

INDEPENDENT TECHNICAL REPORT:
NORTON LAKE NICKEL-COPPER-COBALT DEPOSIT

NORTHWESTERN ONTARIO, CANADA



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1.0 EXECUTIVE SUMMARY

The Norton Lake Property (the “Property”) is located about 50 kilometres northeast of Fort Hope and about 413 kilometres northeast of Thunder Bay, Ontario, Canada. This Independent Technical Report (the “Report”) was prepared by Caracle Creek International Consulting Inc. (“CCIC”) at the request of White Tiger Mining Corp. (“White Tiger”) for their ability to fulfill the TSX Venture Exchange’s requirements for reactivation from NEX to Tier 2 and to raise funds to further explore and develop this Property.

The two Norton Lake claim groups, Norton East and Norton West, were held by East West Resource Corp. (“East West”), a TSX Venture Exchange company (EWR-TSX.V), Trillium North Minerals Ltd. (“Trillium”; formerly Canadian Golden Dragon Resources Ltd.), also a TSX Venture Exchange company (TNM-TSX.V) and Cascadia International Resources Inc. (“Cascadia”). In January 2009, Cascadia assigned its 51 % interest in the joint venture to White Tiger Mining Corp. (“White Tiger”), a TSX Venture Exchange company (WTC.H). White Tiger may increase its interest to 60% by completing a feasibility study to the standards of the Toronto Stock Exchange (“TSX”), and a further 10% (total 70% interest) may be earned by financing the Property through to production.

The Norton Lake Property is located within the Miminiska-Fort Hope Greenstone Belt of the Uchi Subprovince. The Property is centred at approximately 51°55'N and 87°23'W (477472mE, 5751345mN – NAD83, Zone 16), within the National Topographic System (NTS: 42M/14) Sturrock Lake area, and consists of 483 mining claim units in 32 claim blocs, covering 7,728 hectares.

The principal target area on the Property is the potentially economic magmatic Ni-Cu-Co-Pd sulphide mineralization referred to as the Norton Lake Nickel-Copper-Cobalt Deposit or Norton Zone. Although the Norton Zone is not exposed at surface, is generally well defined by diamond drilling and geophysical surveys.

Sulphide mineralization is hosted within a sheared amphibolite unit located between an upper basalt and a lower sedimentary unit. The Norton Zone is commonly brecciated (durchbewegung texture) with the breccia primarily consisting of mafic, ultramafic, and gabbroic fragments in a deformed, sulphide-bearing matrix; highly siliceous (cherty) fragments were also noted by Johnson (2005b), and these were likely sourced from local iron formation. The sulphide mineralization is dominated by semi-massive to massive pyrrhotite and subordinate pentlandite in irregular stringers, veins and patches forming 10% to 75% of the rock volume and averaging 30-35%; chalcopyrite is erratically distributed in grains, patches and seams. Pentlandite and violarite are the primary nickel-bearing minerals and localized sphalerite and arsenopyrite were noted (McLeod, 1981).



An Independent Mineral Resource Estimate was completed on the Norton Lake Ni-Cu-Co Deposit in 2005. The Mineral Resource meets the 2000 and current CIM Definition Standards and is compliant with the National Instrument 43-101 (NI 43-101). The Mineral Resource Estimate is summarized as follows:

Norton Lake Deposit Mineral Resource Estimate: reported at 0.3% Ni cut-off

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,769,721	0.67	0.61	0.03	0.46
Indicated	488,933	0.67	0.61	0.03	0.47
TOTAL	2,258,654	0.67	0.61	0.03	0.46
Inferred	198,571	0.66	0.59	0.03	0.47

Norton Lake Deposit Mineral Resource Estimate: reported at 0.5% Ni cut-off

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,456,329	0.73	0.65	0.03	0.49
Indicated	427,041	0.71	0.63	0.03	0.48
TOTAL	1,883,370	0.73	0.65	0.03	0.49
Inferred	160,884	0.71	0.61	0.03	0.47

On the basis of the Mineral Resource modelling, the Norton Zone strikes about 250° to 270° and dips at about 60° toward the north, with a strike length from 225 to 300 metres and true widths ranging from about 5.0 to 10.0 metres (average ~7.0 m). The Norton Zone is open to the northeast with good potential for expanding the Mineral Resource, and with the potential for added tonnage down-dip and plunge (northeast at 60-70°) and within the Norton Zone itself.

In addition, mineralization intersected in drill holes U-14 and U-4 suggests a separate sulphide zone directly south of the Norton Zone between L1W and L1E (the “south zone”). A fault, originally interpreted from airborne EM, trends 107° and likely defines the western limit of the Norton Zone. This fault appears to have displaced what was the western extension of the Norton Zone, eastward to its present interpreted position, suggesting that the south zone could continue to the west and/or east, below the fault, defining a parallel sulphide zone. As it is currently defined by only two drill holes (U-14 and U-4), the south zone was not included in the Mineral Resource Estimate.

The geological setting and style of sulphide mineralization (i.e. sulphide breccia proximal to basal contact) is similar to the past-producing Thierry Mine near Pickle Lake, Ontario. In the late 1970s, the Thierry ore bodies were mined to depths of 75 metres (eastern pit) and 240 metres (western pit); a 500 metre shaft was developed in the early 1980s to access high-grade breccia and massive sulphide ores underground.



A similar scenario could be envisioned for the Norton Zone, whereby an initial open cast mine could be considered to a depth of 200 metres. In consideration of a similar open cast potential for the Norton Zone, an evaluation was executed on blocks occurring within 200 metres of surface, as derived from the Mineral Resource Estimate. Results of this exercise are as follows:

Near surface portion (<200 m) of Norton Lake Ni-Cu-Co Deposit reported at 0.3% Ni cut-off

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,248,043	0.66	0.58	0.03	0.48
Indicated	191,955	0.61	0.51	0.03	0.47
TOTAL	1,439,998	0.65	0.57	0.03	0.48
Inferred	82,745	0.63	0.53	0.03	0.49

The Norton Lake Ni-Cu-Co Deposit offers an excellent opportunity for White Tiger International Resources Inc. to establish a massive sulphide deposit as part of its mineral deposit inventory.

CCIC recommend that White Tiger complete a program of bore hole electro magnetics, of definition drilling and exploration drilling, re-estimate the Mineral Resource, complete preliminary metallurgical studies on the main zone, and investigate the requirements necessary for performing a preliminary pit optimization and open cast to underground mining scoping study.

It is the professional opinion of CCIC that the character of the Norton Lake Ni-Cu-Co Deposit, the Mineral Resource Estimate it represents, and the potential for developing new mineral targets and expanding Mineral Resources are of sufficient merit to justify further exploration on the Property.



2.0 INTRODUCTION AND TERMS OF REFERENCE

2.1 Introduction

The Norton Lake Property (the “Property”) is located about 50 kilometres northeast of Fort Hope, Ontario, Canada and about 413 kilometres northeast of Thunder Bay, Ontario, Canada (Figures 2-1 and 2-2). The two Norton Lake claim groups, Norton East and Norton West, were held by East West, a TSX Venture Exchange company (EWR-TSX.V), Trillium North Minerals Ltd. (“Trillium”; formerly Canadian Golden Dragon Resources Ltd.), also a TSX Venture Exchange company (TNM-TSX.V) and Cascadia International Resources Inc. (“Cascadia”). In January 2009, Cascadia assigned its 51 % interest in the joint venture to White Tiger Mining Corp. (“White Tiger”), a TSX Venture Exchange company (WTC.H). White Tiger may increase its interest to 60% by completing a feasibility study to the standards of the Toronto Stock Exchange (“TSX”), and a further 10% (total 70% interest) may be earned by financing the Property through to production.

Previous exploration work on the Property dates to 1970 with East West beginning its exploration of the Property in 2000 and Cascadia continuing exploration under the previous option agreement in January 2004. This Report was prepared on behalf of White Tiger for their ability to fulfill the requirements of reactivation from NEX of the TSX Venture Exchange to Tier 2. In addition, the purpose of the Report is to provide a review and compilation of exploration work completed to date for White Tiger’s ability to raise funds to further explore and develop this Property. The report relies heavily on Jobin-Bevans and Kelso (2005) but incorporates details of the exploration completed since 2005.

2.2 Scope of Work

Caracle Creek International Consulting Inc. have been retained by White Tiger to produce an Independent Technical Report (the “Report”) in accordance with the guidelines set out in National Instrument 43-101 (NI-43-101), companion policy NI43-101CP and Form 43-101F1.

2.3 Basis of the Report

This Report is based on the following data as made available to CCIC by East West and White Tiger and public domain sources:

- NI43-101 report dated December 21st 2005;
- Legal documents regarding ownership of the Property
- On-site data review by Scott Jobin-Bevans, October 19th-20th, 2005
- Communication with Robert Middleton, former Exploration Manager of East West Resource Corp.
- Site visit of the Norton Lake Property by Robert Middleton



2.4 Terminology and Unit Conversion

In Canada, the Metric System or SI System is the primary system of measure and length is generally expressed in kilometres, metres and centimetres, volume is expressed as cubic metres, mass expressed as metric tonnes, and nickel and copper grades are generally expressed as percent. The precious and platinum-group metals grades are generally expressed as ounce per ton but may also be in parts per billion or parts per million. Conversions from the SI or Metric System to the Imperial System are provided below and quoted where practical. Many of the geologic publications and more recent work assessment files now use the SI system but older work assessment files almost exclusively refer to the Imperial System. Metals and minerals acronyms in this report conform to mineral industry accepted usage and the reader is directed to an online source at www.maden.hacettepe.edu.tr/dmmrt/index.html.

Conversion factors utilized in this report include: 1 troy ounces/ton = 34.29 gram/tonne; 0.029 troy ounces/ton = 1 gram/tonne; 1 troy ounces/ton = 31.1035 gram/ton; 0.032 troy ounces/ton = 1 gram/ton; 1 gram = 0.0322 troy ounces; 1 troy ounce = 31.104 grams; 1 pound = 0.454 kilograms; 1 foot = 0.3048 metres; 1 mile = 1.609 kilometres; 1 acre = 0.405 hectares; and, 1 sq mile = 2.59 square kilometres. The term gram/tonne or g/t is expressed as “gram per tonne” where 1 gram/tonne = 1 ppm (part per million) = 1000 ppb (part per billion). Other abbreviations include ppb = parts per billion; ppm = parts per million; opt = ounce per short ton; Moz = million ounces; Mt = million tonne; t = tonne (1000 kilograms); SG = specific gravity; lb/t = pound/tonne; and, st = short ton (2000 pounds).

Dollars are expressed in Canadian currency (CAD\$) unless otherwise noted. Nickel, copper and cobalt prices are stated as US\$ per pound (US\$/lb) whereas gold, silver and platinum-group metals prices are stated in US\$ per troy ounce (US\$/oz).

Unless otherwise mentioned, all Universal Transverse Mercator (UTM) coordinates in this Report are provided in the datum of Canada, NAD83 Zone 16.

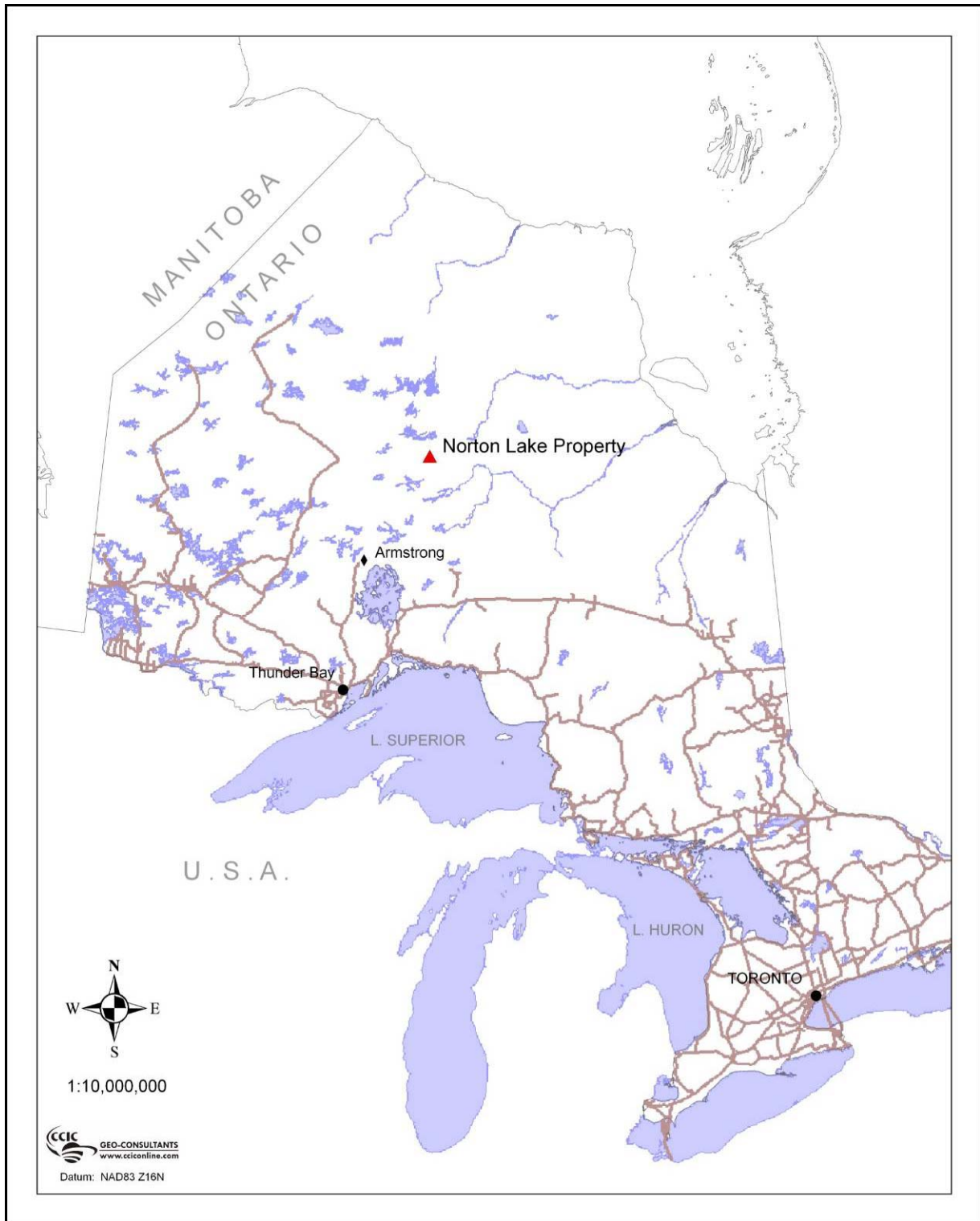


Figure 2-1. Location of the Norton Lake Nickel-Copper-Cobalt Property, Ontario, Canada.

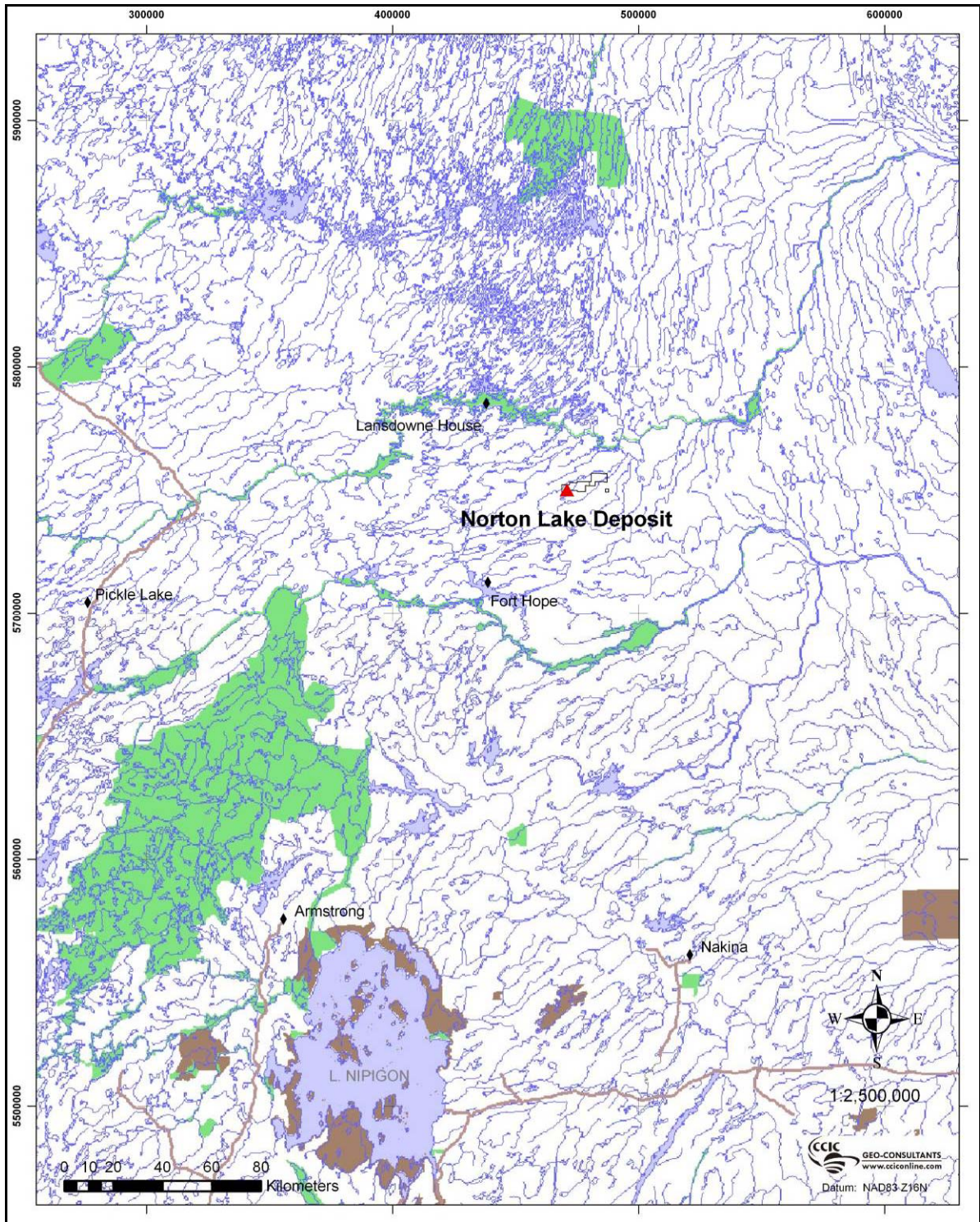


Figure 2-2. Location of the Norton Lake Nickel-Copper-Cobalt Property, Northwestern Ontario, Canada.



2.5 CCIC's Qualifications

Caracle Creek International Consulting Inc. (CCIC) is based in Sudbury, Ontario, Canada and was incorporated in 2000. CCIC is a geological consulting company that provides a wide range of geological and engineering services to the mineral industry. With offices in Canada (Sudbury, Toronto, Vancouver) and South Africa (Johannesburg), CCIC is well positioned to service its international client base.

CCIC's mandate is to provide professional geological and engineering services to the mineral exploration and development industry at competitive rates and without compromise. CCIC's group of professionals have international experience in a variety of disciplines and offer services that include:

- Exploration Project Generation, Design and Management;
- Data Compilation and Exploration Target Generation;
- Property Evaluation and Due Diligence Studies;
- Independent Technical Reports (43-101)/Competent Persons' Reports;
- Mineral Resource/Reserve Modelling, Estimation and Audit, and Conditional Simulation;
- 3D Geological Modelling, Visualization and Database Management.

CCIC has access to the most current software for data management, interpretation and viewing, manipulation and target generation:

- GIS Platform – MapInfo and/or Arcview;
- Data Modelling for Target Generation/3D GIS Querying – GOCAD;
- Graphics – AutoCAD, Geosoft Oasis Montaj Viewer, CorelDraw, Adobe Illustrator.

The Qualified Person for this Report is Dr. Scott Jobin-Bevans, Director of CCIC and a geologist in good standing with the Association of Professional Geoscientists of Ontario (APGO - #0183). Dr. Jobin-Bevans has over 20 years experience in mineral exploration and has authored or co-authored several Independent Technical Reports (NI 43-101) or Competent Persons Reports for the purpose of listings on the TSX Venture Exchange of the Toronto Stock Exchange, and the Alternative Investment Market (AIM) and OFEX markets of the London Stock Exchange. Dr. Jobin-Bevans also has experience in geological and resource modelling, and in the management of quality control-quality assurance programs. Dr. Jobin-Bevans visited the exploration office and core storage facility of East West (Thunder Bay, Ontario) where the Norton Lake drill core is located on October 19th and 20th, 2005 in order to verify that sample preparation and security meet industry standards.

Co-author of this Report is Robert Middleton, independent geophysicist and member in good standing of the Association of Professional Engineers of Ontario (APEO - #31595010). Mr. Middleton has visited the Property in March and April 2009.



Co-author of this Report is Dr. Elisabeth Ronacher, Project Manager for CCIC and a geologist in good standing with the Association of Professional Geoscientists of Ontario (APGO - #1476). Dr. Ronacher has over 10 years experience in mineral exploration and academia. She has co-authored several Independent Technical Reports (NI 43-101) for the purpose of listings on the TSX Venture Exchange of the Toronto Stock Exchange.

Ms. Jenna McKenzie, Hons. B.Sc., is a Project Geophysicist with CCIC and a Professional Geologist with the Association of Professional Geologists of Ontario (APGO - #1653). She is also a co-author on this Report. Ms. McKenzie has seven years of experience in geophysics and has worked on a variety of commodities including diamond, gold, potash and Ni-Cu-PGE. Certificates of Qualifications for the Qualified Persons responsible for this Report are provided in Appendix 1.

3.0 RELIANCE ON OTHER EXPERTS

This Report is directed solely for the development and presentation of data with recommendations to allow White Tiger to reach informed decisions. This Report was prepared by competent and professional individuals from Caracle Creek International Consulting Inc. on behalf of White Tiger Mining Corp.

The information, conclusions and recommendations contained herein are based largely on a previous NI43-101 report prepared for Cascadia by CCIC and published on SEDAR (<http://www.sedar.com/CheckCode.do;jsessionid=0000Lw2Lzd0xbM-bfDRaevi4DfO:-1>). The previous report was based on a review of digital and hard copy data and information supplied to CCIC by Cascadia and East West, as well as various published geological reports, discussions with representatives from Cascadia and East West who are familiar with the Property and the area in general. For the current report, CCIC have relied on information provided by White Tiger and East West regarding land tenure and technical information and these sources appear to be of sound quality. CCIC are unaware of any technical data other than that presented by White Tiger and East West or its agents. CCIC did not conduct an in-depth review of mineral title and ownership and the title ownership and status of claims as outlined in this Report was obtained from White Tiger, East West and from the Ministry of Northern Development and Mines (MNDM) website (http://www.mci.mndm.gov.on.ca/claims/clm_intr.cfm). CCIC have assumed that the reports and other data listed in the "References" section of this report are substantially accurate and complete.

All relevant information on the Property presented in this Report is based on data derived from reports written by geologists and/or engineers, whose professional status may or may not be known in relation to the National Instrument 43-101 definition of a Qualified Person. However, CCIC believe that these reports were written for internal purposes only, with the objective of presenting the results



of the work performed without any promotional or misleading intent. In this sense, the information presented should be considered reliable, unless otherwise stated, and may be used without any prejudice by White Tiger Mining Corp.

CCIC have conducted this independent technical assessment in accordance with the methodology and format outlined in National Instrument 43-101, companion policy NI 43-101CP and Form 43-101F1.

4.0 PROPERTY DESCRIPTION AND LOCATION

The Norton Lake Property is located in Ontario, Canada, about 50 kilometres northeast of Fort Hope and about 413 kilometres northeast of Thunder Bay (Figures 2-1 and 2-2). The Property is geographically centred at approximately 51°55'N and 87°23'W (477472mE, 5751345mN – NAD83, Zone 16), within the National Topographic System (NTS) map sheet 42M/14, Sturrock Lake area.

The Property, which is located in the Thunder Bay Mining Division, consists of 32 claim blocs comprising 483 mining claim units and covering 7,728 hectares (Table 4-1; Figure 4-1). White Tiger does not own the surface rights of the mining claims. It is CCIC's understanding that none of the mining claims have been legally surveyed. The Property boundaries were located using a hand-held GPS. Copies of the legal agreements demonstrating the ownership of the claims are provided in Appendix 2 and mining claim reports are available on the MNDM web site "http://www.mci.mndm.gov.on.ca/claims/clm_mmen.cfm".

Table 4-1. Unpatented mineral claims of the Norton Lake Property.

Area	Holder ¹	Claim	Recorded	Due	No. Units	Work Required	Total Reserve
East of Norton Lake (G-0237)	EWR	TB-1192792	20-Sep-01	20-Sep-2010	16	\$6,400	\$0
East of Norton Lake (G-0237)	EWR	TB-1192793	20-Sep-01	20-Sep-2010	16	\$6,400	\$10,000
East of Norton Lake (G-0237)	EWR	TB-1192794	20-Sep-01	20-Sep-2010	16	\$6,400	\$10,000
East of Norton Lake (G-0237)	EWR	TB-1192796	20-Sep-01	20-Sep-2010	16	\$6,400	\$10,000
East of Norton Lake (G-0237)	EWR	TB-1192797	20-Sep-01	20-Sep-2010	16	\$6,400	\$10,000
East of Norton Lake (G-0237)	EWR	TB-1192798	20-Sep-01	20-Sep-2010	16	\$6,400	\$0
East of Norton Lake (G-0237)	Cascadia	TB-4221781	13-Aug-07	13-Aug-2010	16	\$6,400	\$0
East of Norton Lake (G-0237)	Cascadia	TB-4221782	13-Aug-07	13-Aug-2010	16	\$6,400	\$0
East of Norton Lake (G-0237)	Cascadia	TB-4221783	13-Aug-07	13-Aug-2010	16	\$6,400	\$0
East of Norton Lake (G-0237)	Cascadia	TB-4221784	13-Aug-07	13-Aug-2010	12	\$3,200	\$0
East of Norton Lake (G-0237)	Cascadia	TB-4221785	13-Aug-07	13-Aug-2010	12	\$3,200	\$0
East of Norton Lake (G-0237)	Cascadia	TB-4221786	13-Aug-07	13-Aug-2010	12	\$3,200	\$0
East of Norton Lake (G-0237)	Cascadia	TB-4221787	13-Aug-07	13-Aug-2010	14	\$4,800	\$0



Area	Holder ¹	Claim	Recorded	Due	No. Units	Work Required	Total Reserve
Norton Lake (G-0355)	EWR	TB-1187695	24-Sep-01	24-Sep-2011	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187696	24-Sep-01	24-Sep-2011	10	\$4,000	\$0
Norton Lake (G-0355)	EWR	TB-1187697	17-Sep-01	17-Sep-2010	16	\$6,400	\$9,379
Norton Lake (G-0355)	EWR	TB-1187698	17-Sep-01	17-Sep-2010	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187699	17-Sep-01	17-Sep-2009	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187700	17-Sep-01	17-Sep-2010	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187701	17-Sep-01	17-Sep-2010	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187702	17-Sep-01	17-Sep-2010	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187703	17-Sep-01	17-Sep-2010	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187704	17-Sep-01	17-Sep-2011	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187705	17-Sep-01	17-Sep-2009	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187706	17-Sep-01	17-Sep-2010	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187707	24-Sep-01	24-Sep-2012	16	\$6,400	\$0
Norton Lake (G-0355)	EWR	TB-1187708	24-Sep-01	24-Sep-2011	16	\$6,400	\$69
Norton Lake (G-0355)	EWR	TB-1192791	20-Sep-01	20-Sep-2010	16	\$6,400	\$10,000
Norton Lake (G-0355)	EWR	TB-1192795	20-Sep-01	20-Sep-2010	16	\$6,400	\$157
Norton Lake (G-0355)	EWR	TB-1240871	28-Nov-00	28-Nov-2012	15	\$6,000	\$1,348,847
Norton Lake (G-0355)	Trillium	TB-1187709	17-Sep-01	17-Sep-2009	16	\$6,400	\$0
Norton Lake (G-0355)	Trillium	TB-1187710	17-Sep-01	17-Sep-2009	8	\$3,200	\$0
TOTAL:					483	\$187,600	

¹EWR=East West Resource Corp., Trillium=Trillium North Minerals Ltd., Cascadia=Cascadia International Resources Inc. (see Appendix 2 for the legal agreement between Cascadia International Resources Inc. and White Tiger Mining Corp.)

The principle target area, referred to as the Norton Lake Nickel-Copper Deposit or Norton Zone, is situated within mining claim TB-1240871 (Figure 4-1) and is bounded by 470698mE (drill hole U-5) and 471075mE (drill hole NL05-15), forming the basis for the Mineral Resource Estimate.

In addition, mineralization intersected in drill holes U-14 and U-4 suggests a separate sulphide zone directly south of the Norton Zone between L1W and L1E (the “south zone”). A fault, originally interpreted from airborne EM, trends 107° and likely defines the western limit of the Norton Zone. This fault appears to have displaced what was the western extension of the Norton Zone, eastward to its present interpreted position, suggesting that the south zone could continue to the west and/or east, below the fault, defining a parallel sulphide zone.

CCIC are not aware of any mineralized zones or mineral resources on the Property other than the Norton Lake Nickel-Copper Deposit (including the Norton and south Zones). Furthermore, CCIC are



not aware of mineral reserves, mine workings, tailing ponds, waste deposits and other natural features or improvements on the Property.

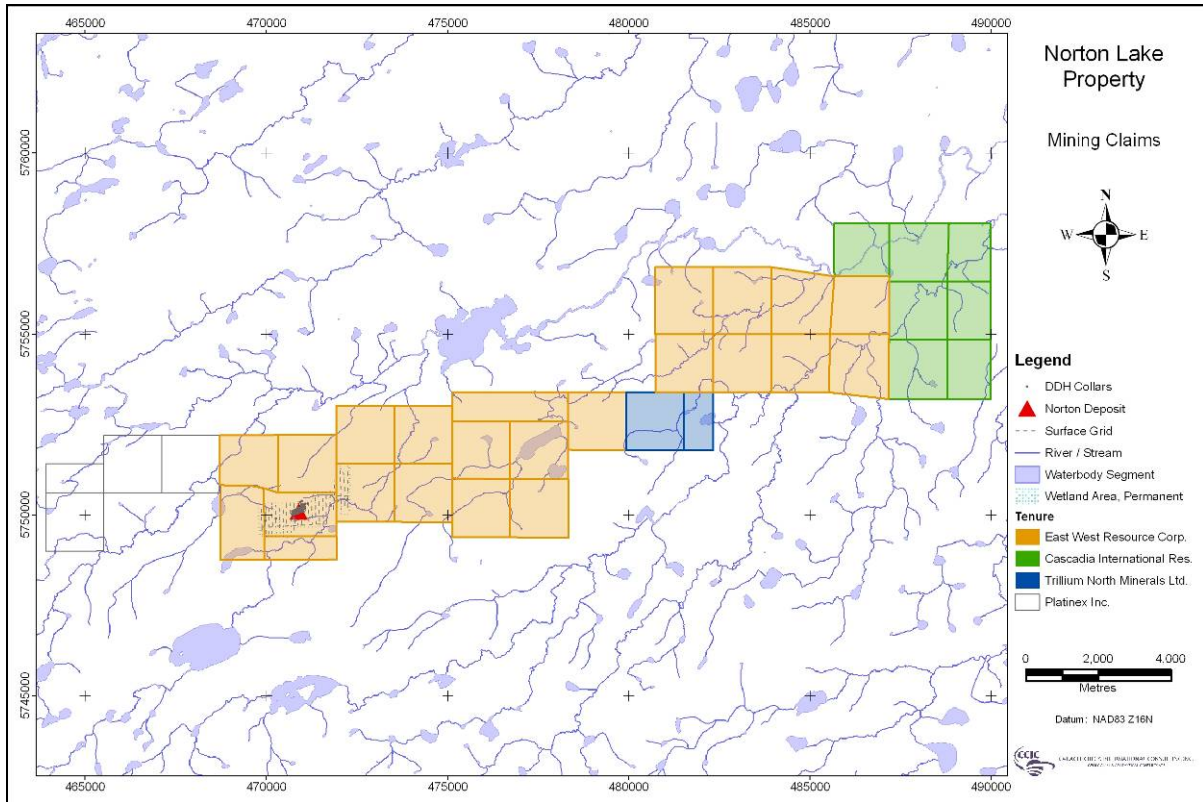


Figure 4-1. Unpatented mining claims for the Norton Lake Property, Ontario. The Norton Lake Ni-Cu-Co Deposit is located in claim 1240871 (red triangle).

4.1 Establishing Mineral Rights in Ontario

In Ontario, Crown lands are available to licensed prospectors for the purposes of mineral exploration. A licensed prospector must first stake an unpatented mining claim to gain the exclusive right to prospect on Crown land. Claim staking is governed by the Ontario Mining Act and is administered through the Provincial Mining Recorder and Mining Lands offices of the MNDM.

An unpatented mining claim is a square or rectangular area of open Crown land or Crown mineral rights that a licensed prospector marks out with a series of claim posts and blazed lines. Mining claims can be staked either in a single unit or in a bloc consisting of several single units. In unsurveyed territory, a single unit claim is laid out to form a 16 hectare (40 acre) square with boundary lines running 400 metres (1,320 feet) astronomic north, south, east and west. Multiples of single units, up to a maximum of 16 units (256 hectares), may be staked with only a perimeter boundary as one bloc claim but must be staked in a square or rectangular configuration. The maximum length-to-width ratio for a bloc claim is 4:1 (i.e. the maximum length is 3,200 metres (8 claim lengths) if the width is 800 metres (2 claim lengths).



Upon completion of staking, and within 31 days of the completion date, a recording application form is filed with payment to the Provincial Recording Office. Staking completion time takes priority, meaning that if two licensees file applications to record the staking of all or part of the same lands, then the applicant with the earliest completion time will have priority. Where the time limited for any proceeding or for the doing of anything in an office of a mining recorder or an office of the Commissioner or an office of the Minister or Deputy Minister expires or falls upon a Saturday, Sunday, holiday or any other day on which the relevant office is closed, the time so limited extends to and the thing may be done on the day next following that is not a Saturday, Sunday, holiday or any other day on which the relevant office is closed. All claims are liable for inspection at any time by the Ministry and may be cancelled for irregularities or fraud in the staking process. Disputes of mining claims by third parties will not be accepted after 1 year of the recording date or after the first unit of assessment work has been filed and approved.

A claim remains valid as long as the claim holder properly completes and files the assessment work as required by the Mining Act and the Minister approves the assessment work. In order to keep an unpatented mining claim current the mining claim holder must perform \$400 per mining claim unit, worth of approved assessment work per year; immediately following the initial staking date, the claim holder has two (2) years to file one year worth of assessment work.

4.2 Ownership and Mineral Rights

In 2001, East West purchased a 15 unit, unpatented mining claim (1240871) covering the Norton Zone from R. L. Duess and R. B. Durham by paying CAD\$5,000 and issuing 100,000 shares. A 2.0% Net Smelter Return (NSR) royalty is retained by the vendors where 1.0% may be purchased at any time for CAD\$1.0 million and the remaining 1.0% may be purchased on a first right of refusal. An area of interest of 1.6 kilometres (1 mile) from the original claim applies to any claims staked by East West or its partners. In September 2001, East West staked an additional 346 mining claim units covering the 11 kilometre long trend, northeastward and westward from the Norton Zone. In August 2007, Cascadia staked 7 further claims consisting of 98 units (Figure 4-1).

In the Fall 2003, Cascadia International Resources Inc. entered into an option agreement on two unpatented mining claim groups from East West Resources Corporation (361 mining claim units) and Canadian Golden Dragon Resources Ltd. (now Trillium North Minerals Ltd.; 24 mining claim units). In January 2009, Cascadia assigned its 51 % interest in the joint venture to White Tiger Mining Corp. ("White Tiger"). White Tiger may increase its interest to 60% by completing a feasibility study to the standards of the Toronto Stock Exchange ("TSX"), and a further 10% (total 70% interest) may be



earned by financing the Property through to production. The legal agreements showing the current status of the Joint Venture are presented in Appendix 2.

CCIC are not aware of any royalties, back-in rights or payments due from White Tiger or that exist as part of underlying agreements, which have not been explained herein.

4.3 Environmental Considerations

Exploration companies working in Ontario are advised to work closely and cooperatively with various levels of government to ensure proper code of conduct during any exploration program. In general, no permits are required to conduct a drilling program in Ontario, but where bodies of water and/or water crossings are concerned, it is the responsibility of the claim holder to insure that appropriate Provincial and Federal government ministries (i.e. Ministry of Northern Development and Mines, Ministry of Natural Resources, Ministry of Labour and Ministry of the Environment) have been consulted.

CCIC are not aware of any environmental liabilities associated with the Property and at the time of writing, no environmental studies had been implemented.

4.4 Permits

CCIC are not aware of any permits required for conducting the exploration work recommended in this Report (Section 20).

5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Accessibility

The Norton Lake Nickel-Copper Property is accessible by float plane or helicopter from Nakina, Armstrong, or Pickle Lake; no road access exists. New, permanent roads that follow the existing winter roads, are being planned and constructed that will link Fort Hope, Pickle Lake and Nakina. A winter road extends northeast of Fort Hope and passes within 12 km west of the Property boundary.

5.2 Climate

The project area receives extreme variations in weather conditions. First snowfall occurs by mid-September and heavy snowfalls can occur between mid-October to December and may occur from March through April. The winter is generally cold and dry with lows reaching -40°C , which is not uncommon during late December to mid-February. Spring thaw usually occurs by mid-May. Summer is dry and hot, reaching up to 30°C , with rare subzero conditions also occurring.



5.3 Local Resources and Infrastructure

The Property is located about 200 kilometres northeast of the town of Armstrong, about 250 kilometres north of the town of Geraldton, and about 200 kilometres east-northeast of the town of Pickle Lake (Figure 2-2). Supplies, general labour and accommodations are available from these towns but during exploration programs, crews establish field camps on the Property. The majority of supplies are purchased in Thunder Bay and delivered by road to Armstrong for subsequent air transport to the exploration camp via Huron Air Outfitters.

During winter exploration programs, supplies are either flown directly to camp on Banana Lake or, if ice conditions are poor, the plane delivers the supplies to Sturrock Lake and they are then transported by snowmobile (~3 km) over a portage to the Banana Lake camp. Propane and diesel fuel are supplied out of Armstrong and deliveries to the camp are generally every 3-4 days.

During the summer exploration programs, supplies are flown by float plane to Sturrock Lake where they are offloaded at a dock and then either portaged (~1.5 km) and canoed to the Banana Lake camp, or moved by helicopter to the Banana Lake camp. Flights vary in frequency from 1-7 days dependent on need.

5.4 Physiography

The Norton Lake Property and surrounding areas are swamp covered with east-northeast trending ridges of bedrock. The relief within the area is low, averaging 1-2 metres, with a maximum relief of about 20 metres. Rivers and streams are shallow, averaging 1 metre in depth, and are often impassable due to beaver dams and seasonal variation in water level. The only large bodies of water on the Property are Sturrock Lake, Norton Lake and an unnamed lake (nicknamed Camp Lake) that average about 15 metres depth. Water from these and other smaller lakes and rivers drain northeastward into Hudson Bay via the Attawapiskat River. Outcrops are scarce (~1%) and are mainly found as east-northeast trending ridges, and along edges of the larger lakes. No outcrops occur along the southern edge of the Property. Vegetation in the area consists predominately of black spruce in lower areas; birch trees are rare. Trees in the area are generally stunted, due mainly to the short growing season, averaging 3-5 metres in height and 10-20 centimetres in diameter. Alders and cedars occur along the smaller streams.

6.0 PROPERTY HISTORY

6.1 Exploration History

The earliest exploration work on the Property dates to 1970 with intermittent exploration work through to 1987 (Mason and White, 1995). In 2001, East West purchased a newly staked, 15 unit, unpatented mining claim (1240871) covering the Norton Zone. In September 2001, East West staked



an additional 346 mining claim units covering the 11 kilometre long trend, northeastward and westward from the Norton Zone. East West began exploration of the Property in 2001 and this has continued through to the fall of 2005, with 2004-2005 work completed by Cascadia under its previous option agreement with East West. Exploration programs conducted under this agreement between Cascadia and East West since the most recent NI43-101 Technical Report (Jobin-Bevans and Kelso, 2005) are outlined in Section 10.0.

6.1.1 Union Minière Explorations (1970-1972)

Between 1970 and 1972, a joint-venture between Union Minière Explorations Inc. (UMEX) and Imperial Oil contracted Questor Surveys to fly INPUT-EM and magnetic surveys using the Mark V INPUT system. Follow up diamond drilling, comprising three short “Winkie” holes, was completed on two geophysical anomalies (Mason and White, 1995). Mason and White (1965) did not report the results of this exploration.

6.1.2 Wasabi Resources Ltd. (1980-81)

A Questor Surveys Ltd. Mark VI INPUT airborne magnetics-EM survey was flown east of Norton Lake generating 79 anomalies that were tested with ground geophysics. In total, eighty geophysical conductors were located and thirty-one were drilled. Of the 58 diamond drill holes totalling 2,672.57 m, thirty-eight were reconnaissance testing EM conductors in the area and twenty were focused on “Anomaly U”, the main zone of sulphides referred to as the Norton Zone (Mason and White, 1995). Drilling AQ size core (27 mm diameter), was completed by Tindale Drilling Ltd. for Wasabi between April 16th and August 9th, 1981. A summary of the drill holes is shown in Table 6-1 and selected assay results are presented in Table 6-2. The drill collars were left in the ground.

Basal till sampling was completed over three of the anomalies and a geological mapping program was completed but results were not reported (Mason and White, 1995). Wasabi Resources Ltd. (“Wasabi”) was de-listed from the Toronto Stock Exchange in April 1988.

Table 6-1. Diamond drilling summary, completed by Wasabi Resources Ltd.

Drill Hole	Easting (m)	Northing (m)	Elevation (m)	Depth (m)	Azimuth	Dip
U1	470865	5750056	271	106.38	180	55
U2	470810	5750040	266	85.04	180	55
U3	470810	5750040	266	100.28	180	90
U4	470754	5750034	267	109.33	180	55
U5	470707	5750027	270.5	60.96	180	55
U6	470912	5750083	270.5	121.30	180	55
U7	470912	5750083	270.5	121.62	180	90



Drill Hole	Easting (m)	Northing (m)	Elevation (m)	Depth (m)	Azimuth	Dip
U8	470963	5750087	268	129.24	180	55
U9	470963	5750087	268	93.88	180	90
U10	471004	5750105	271	78.64	180	55
U11	471004	5750105	271	103.32	180	90
U12	470863	5750128	272	130.46	180	51
U13	470816	5750148	270.5	167.03	180	60
U14	470763	5750097	270.5	142.95	180	50
U15	470764	5750136	270.5	155.15	180	59
U16	470919	5750189	272	197.97	180	65
U17	470966	5750211	274	188.37	180	58
U18	471018	5750241	271	200.56	180	60
U19	470864	5750203	273	219.15	180	59
U20	470721	5750101	270.5	160.94	180	50

Table 6-2. Selected drill core assay results from Wasabi Resources Ltd. (1981).

Drill Hole	From (m)	To (m)	Int (m)	Cu (%)	Ni (%)
U2	38.66	48.06	9.40	0.65	0.74
U3	58.72	76.57	17.85	0.34	0.93
U4	41.85	64.81	22.96	0.42	0.41
U4	90.96	109.43	18.47	0.16	0.25
U6	46.68	55.92	9.24	0.36	0.69
U7	79.53	87.13	7.60	0.79	0.74
U7	87.13	92.20	5.07	0.30	0.31
U9	72.94	74.80	1.86	0.23	0.58
U9	82.05	82.70	0.65	0.72	0.26
U9	82.70	83.21	0.51	0.04	0.03
U14	96.35	108.05	11.70	0.44	0.72
U14	119.18	132.45	13.27	0.14	0.19
U17	170.95	176.94	5.99	0.52	0.73
U18	182.20	188.77	6.57	0.50	0.25

6.1.3 Duration Mines Ltd. (1986-87)

Locator Explorations Ltd. optioned the Property from Duration Mines Ltd. and Joutel Resources Ltd. Locator Explorations subsequently conducted a helicopter-borne combined-electromagnetic, magnetic, and VLF-EM survey. A geological and geophysical investigation of the area covering the main iron formation fold nose northeast of Norton Lake was also completed. Sixty kilometres of line cutting was completed with three baselines, extending for over nine kilometres, cut parallel to the fold axis (74°) of the iron formation. Diamond drill core from the 1981 Wasabi drilling program was re-logged, re-sampled and assayed. In 1987, sixteen drill holes totalling 2,481 metres were completed on the Duration Mines Ltd. option and six drill holes totalling 1,082 metres were completed on the Joutel Resources Ltd. option. Although Locator Explorations Ltd. tested various conductors on both limbs of the main, east-closing fold, no holes were drilled on the Ni-Cu sulphide zone referred to as “Anomaly U” or the Norton Zone.

Ellingham (1988) described the findings on the Property optioned from Joutel Resources Ltd., specifically those related to the region encompassing the fold nose of the iron formation. The iron



formation in the fold nose is up to 26 metres in thickness, consisting of 30% to 40% magnetite and 1% to 2% laminated pyrite. Weakly anomalous gold values, 0.002 to 0.003 oz/t Au, were reported.

6.1.4 Joutel Resources Ltd. (1989-95)

Joutel Resources acquired mining claims over the Norton Zone in 1989 and completed ground magnetometer and VLF-EM geophysical surveys on the property. Results of the geophysical survey were not reported. All mining claims except four claims covering the main sulphide zone were cancelled in 1995.

6.1.5 East West Resource Corporation (2001-2002)

A due diligence review of historic diamond drill core (Wasabi, 1981) was undertaken in the summer of 2001 (Hallé and Middleton, 2002). The drill core (AQ size) was recovered from a location on the Property with most of the mineralized zones found intact. Drill hole “U-1” was missing and several sections of core that had higher copper concentrations (e.g. U-2: 40-44 m) had been previously removed. The due diligence review of holes U-2 to U-20 involved re-assaying hand split half core from the sulphide zones. Assaying for Ni and Cu was completed using ICP analysis, and assaying for Pt and Pd utilized fire assay extraction followed by ICP analysis. ALS Chemex carried out the analysis with preparation of the samples in Thunder Bay, Ontario and assaying completed in North Vancouver, British Columbia. The re-assaying, which correlated well with 1981 drill core assays, showed significant concentrations of Co and platinum-group elements (PGE) were present (Table 6-3). Elevated cobalt values up to 2.4 lb/t Co, PGE concentrations up to 4.38 g/t Pt+Pd (drill hole U-12), and copper values up to 1.6% Cu were reported (East West Resource Corporation Annual Report, 2001). In general, Co was found to correlate with Ni, and ratios of Pd:Pt are between 3:1 and 4:1, excepting drill hole U-12 which had a 5:1 ratio for Pt:Pd. Previous assays of 1.8% Ni obtained by AA assay methods compared well with 1.9% Ni obtained by ICP method.

Geochemical orientation surveys (Hallé and Middleton, 2002) were completed over the Norton sulphide zone “C” in the fall of 2001 and summer 2002. To facilitate the work, an old exploration grid, first established by Wasabi, was re-cut to a total of 22.9 line kilometres. A total of 518 soil samples were collected from the lower, clastic horizons (A₁ and B horizons), at a maximum depth of 8 feet below surface. Samples collected in 2001 were submitted for both ICP-MS70 and MMI-B analyses whereas samples collected in 2002 were submitted for MMI-B analysis only. All samples were submitted to XRAL Laboratories in Toronto (now SGS Lakefield) and all measurements were made using NAD27. The MMI survey succeeded in generating anomalous results as discussed by Hallé and Middleton (2002). These results were somewhat erratic anomalies and did not define a specific anomaly over the deposit. As a result the information cannot be relied on for generating drill targets. One of the difficulties was the number of sites that only had humus and no soil. In addition, there were gaps in the sampling.



In addition, a seventeen hole diamond drilling program (Phase 1), totalling 1,600.42 metres and drilling BTW size core (42 mm diameter), was contracted to Vision Exploration (Timmins, Ontario) between June and October, 2002 (Table 6-4). All of the diamond drilling was completed on mining claim TB-1240871, aimed at testing the Norton Zone using 25 metre centres. More specifically, this program tested previous Wasabi drilling with hole “A”, next to drill hole “U-1”, and with hole “G”, in the area of hole “U-2”. All of the drill holes were completed between June 20th and September 20th, 2002, except holes “M”, “N”, and “W” which were drilled in September-October, 2002. All drill collars (casing) were left in the ground.

Table 6-3. Selected confirmation assays for “U series” drill core, East West Resource Corporation.

Drill Hole	Period	From (m)	To (m)	Int (m)	Cu (%)	Ni (%)	Pt (ppb)	Pd (ppb)	Co (lb/t)
U2	1981	38.66	48.06	9.40	0.65	0.74	-	-	-
U2	2001	39.00	40.00	1.00	0.73	0.67	152	800	1.14
U2	2001	44.00	46.00	2.00	0.33	1.37	53	790	1.6
U2	2001	46.00	47.00	1.00	0.30	0.85	363	870	2.04
U2	2001	47.00	48.50	1.50	0.62	0.67	117	440	1.04
U3	1981	58.72	76.57	17.85	0.34	0.93	-	-	-
U3	2001	58.00	60.00	2.00	1.73	0.92	86	630	1.46
U3	2001	63.00	66.00	3.00	0.17	1.74	142	720	1.89
U3	2001	68.00	71.00	3.00	0.38	1.72	55.5	800	1.45
U3	2001	71.00	74.00	3.00	0.42	1.62	245	830	2.4
U3	2001	74.00	77.00	3.00	0.10	0.20	37	165	0.2
U4	1981	41.85	64.81	22.96	0.42	0.41	-	-	-
U4	2001	43.00	47.00	4.00	0.72	0.69	169	500	0.75
U4	2001	49.80	51.80	2.00	1.12	1.36	134	1230	1.68
U4	2001	51.80	54.00	2.20	0.55	1.37	120	820	0.91
U4	2001	61.00	66.00	5.00	0.22	0.61	119.5	690	0.51
U4	1981	90.96	109.43	18.47	0.16	0.25	-	-	-
U4	2001	85.00	91.00	6.00	0.58	0.73	61	180	0.39
U4	2001	91.00	98.00	7.00	1.07	0.80	121	3100	1
U6	1981	46.68	55.92	9.24	0.36	0.69	-	-	-
U6	2001	45.00	47.00	2.00	0.52	0.43	91	320	1.26
U6	2001	47.00	51.00	4.00	0.29	0.81	50	800	0.86
U6	2001	51.00	54.00	3.00	0.94	0.71	32	740	1.06
U6	2001	54.00	57.00	3.00	0.69	0.88	4.5	480	0.83
U7	1981	79.53	87.13	7.60	0.79	0.74	-	-	-
U7	1981	87.13	92.20	5.07	0.30	0.31	-	-	-
U7	2001	79.60	83.00	3.40	0.50	0.65	74.5	540	0.75
U7	2001	83.00	85.50	2.50	1.37	0.61	58	520	0.98
U7	2001	85.50	87.50	2.00	0.23	0.37	40	400	0.44
U7	2001	87.50	89.50	2.00	1.59	0.49	160	350	1.56
U7	2001	90.00	93.00	3.00	0.76	0.46	2870	320	1.3
U9	1981	72.94	74.80	1.86	0.23	0.58	-	-	-
U9	2001	73.00	75.00	2.00	0.31	0.59	60	370	0.78
U9	1981	82.05	82.70	0.65	0.72	0.26	-	-	-
U9	1981	82.70	83.21	0.51	0.04	0.03	-	-	-
U9	2001	82.00	83.50	1.50	1.07	0.57	37.5	460	0.47
U14	1981	96.35	108.05	11.70	0.44	0.72	-	-	-
U14	2001	94.00	97.00	3.00	0.20	0.36	116	350	0.5
U14	2001	97.00	100.00	3.00	0.84	0.55	896	510	0.55
U14	2001	100.00	104.00	4.00	0.93	1.21	110	710	0.95



Drill Hole	Period	From (m)	To (m)	Int (m)	Cu (%)	Ni (%)	Pt (ppb)	Pd (ppb)	Co (lb/t)
U14	2001	104.00	107.00	3.00	0.31	0.81	442	690	1.31
U14	1981	119.18	132.45	13.27	0.14	0.19	-	-	-
U14	2001	121.00	126.00	5.00	0.30	0.80	450	660	0.38
U14	2001	126.00	130.00	4.00	0.32	0.60	228	390	0.19
U17	1981	170.95	176.94	5.99	0.52	0.73	-	-	-
U17	2001	170.00	174.00	4.00	0.72	0.94	196	750	1.06
U17	2001	174.00	177.00	3.00	0.55	0.79	147.5	600	1.06
U18	1981	182.20	188.77	6.57	0.50	0.25	-	-	-
U18	2001	182.00	185.90	3.90	0.23	0.25	34.5	165	0.39
U18	2001	185.90	188.70	2.80	1.07	0.25	398	185	0.4

In addition to diamond drilling and core sampling, five surface samples were collected and assayed for PGE and 34 elements. Selected assay results from the drill core samples are provided in Table 6-5.

Table 6-4. Phase 1 diamond drilling summary, completed by East West Resource Corporation.

Drill Hole	Easting (m)	Northing (m)	Elevation (m)	Depth (m)	Azimuth	Dip
A	470865	5750056	271	48.0	180	53.5
B	470865	5750056	271	73.0	180	81.7
C	470840	5750060	265	75.4	180	82
D	470840	5750060	265	106.7	180	86.5
E	470840	5750060	265	56.7	180	54.5
F	470810	5750040	266	80.8	180	77
G	470810	5750040	266	64.1	180	45
M	471063	5750195	269	251.46	152.76	89.26
N	471015	5750166	267	196.6	180	87
O	470783	5750043	268	62.7	180	45
P	470783	5750043	268	94.5	180	75
Q	470783	5750043	268	102.1	180	90
S	470752	5750011	265	44.1	180	45
T	470752	5750011	265	71.6	180	90
U	470735	5750014	266	44.2	180	45
V	470761	5749914	265	77.7	180	45.5
W	470961	5750151	268	181.4	180	85

Table 6-5. Selected drill core assay results from Phase 1, East West Resource Corporation.

Drill Hole	From (m)	To (m)	Int (m)	Cu (%)	Ni (%)	Co (lb/t)	Pt (g/t)	Pd (g/t)
A	33.87	43.87	10.00	0.582	0.536	0.762	0.045	0.396
B	52.06	63.06	11.00	0.425	0.795	0.787	0.145	0.616
C	74.93	83.98	9.05	0.576	1.066	1.411	0.129	0.703
D	82.00	102.00	20.00	0.822	0.631	0.667	0.112	0.541
E	45.29	51.56	6.27	1.685	0.514	0.810	0.123	0.414
F	55.50	70.63	15.00	1.072	0.764	0.977	0.136	0.638
G	34.14	44.92	10.71	0.477	0.788	0.809	0.332	0.606
O	47.27	59.27	12.00	0.891	0.600	0.682	0.195	0.517
P	63.03	79.03	16.00	0.455	0.613	0.613	0.158	0.497
Q	82.26	95.94	13.00	0.426	0.654	0.671	0.161	0.518
S	24.94	42.00	17.06	0.250	0.462	0.435	0.070	0.336
including	24.94	32.66	7.72	0.335	0.753	0.690	0.074	0.512
including	34.60	42.00	7.40	0.219	0.267	0.262	0.082	0.231
T	42.25	61.32	19.07	0.566	0.555	0.607	0.157	0.392
including	42.25	53.25	11.00	0.642	0.641	0.743	0.170	0.443
including	55.53	61.32	5.79	0.637	0.606	0.578	0.192	0.449
U	25.86	38.34	12.48	0.418	0.374	0.377	0.151	0.279
including	25.86	33.19	7.33	0.381	0.465	0.463	0.222	0.342



Drill Hole	From (m)	To (m)	Int (m)	Cu (%)	Ni (%)	Co (lb/t)	Pt (g/t)	Pd (g/t)
including	34.73	38.34	3.61	0.648	0.309	0.308	0.063	0.244

6.1.6 East West Resource Corporation (2002/2003)

Vision Exploration (Timmins, Ontario), under the supervision of Roger J. Cavén (Consulting Geophysicist), completed ground and borehole geophysical surveys on the Property that included magnetometer (GSM-8 Proton Precession), VLF-EM (EM-16), induced polarization (IP), and mis-à-la-masse (downhole and plan). The surveys, in a report dated November 20th, 2002, outlined an east-northeastern trend for further exploration away from the main region of mineralization, confirmed the lateral extent of the mineralized zones, defined a northeast plunge to the mineralization, and suggested an additional conductive zone might occur at least 300 metres south of the main mineralized trend.

In February 2003, East West contracted Geotech Ltd. to complete a 244.8 line kilometre helicopter-borne geophysical survey. The survey, which included time domain electromagnetic (Geotech Dream Catcher Time Domain EM System) and magnetometer (Geometrics G-823A Cesium Vapour Magnetometer) surveys, was flown at a nominal terrain clearance of 80 metres, with lines at 100-150 metre spacing, and in a N20°W direction. A radar altimeter was used to record terrain clearance. The survey results were plotted at 1:10,000 scale in the NAD27 Zone 16 projection system and deliverables included total field magnetic contour map (black and white and colour) and an offset TDEM profile map. Data was also provided in electronic format (CD-ROM). The TDEM survey yielded a number of anomalies with most occurring along the southern border of the flight area, forming a south-southeast to north-northwest trend. The electromagnetic (EM) responses of the anomalies are moderate to strong on the west and weak to moderate on the east. The magnetic survey generated two strong magnetic highs. A southern high, which starts at the west end of the survey area and trends north-northeast and a northern high that starts at the west end of the survey area, trends north-northeast along the north edge then turns east in the middle region of the survey area. Ground follow-up of the EM anomalies was recommended.

In a report dated July 21st, 2003, Roger J. Cavén (Consulting Geophysicist) reviewed the airborne geophysical survey completed by Geotech Ltd. The conductors are interpreted to be wide (>10 m) with multiple parallel conductors present in several places, particularly in the southwest, and in general follow the magnetic trend of the iron formation on the north side of the conductors. Follow up geophysical survey and interpretations were recommended.

In fall 2003, East West contracted Vision Exploration to complete a 3 hole drill program that included deepening drill hole “M” from the 2002 East West drilling, and completing 2 new holes (Table 6-6).



No significant mineralization was intersected in any of the drill holes, the drill core was never assayed and the drill program has not been filed for assessment with the MNDM.

Table 6-6. Summary of the 2003 exploration drilling program, East West Resource Corp.

Drill Hole	Easting (m)	Northing (m)	Elevation (m)	Depth (m)	Azimuth	Dip
*Mext	471063	5750195	269	30.48	152.76	89.26
Drill Hole	Grid East	Grid North	Elevation (m)	Depth (m)	Azimuth	Dip
X	L3E	337N	-	41.15	180	45
Y	L3E	337N	-	53.34	180	63

*total length of drill hole "M" = 251.46 metres

The exploration drilling program started in early August and was completed by September 10th, 2003. Drill hole "M" was deepened from a previous depth of 220.98 metres; the drill crew ran out of drill rods and the hole was stopped at 251.46 metres. A proposal was made to deepen hole "M" even further in the future. Drill holes "X" and "Y" were collared about 150-200 metres south of the Norton Zone targeting a geophysical anomaly. These drill holes intersected about 2 metres of iron formation (sulphide-oxide facies) overlying medium-grained pyroxenite containing 5-10% vein and bleb sulphide.

6.1.7 Cascadia International Resources Inc. (2004/2005)

Cascadia International Resources Inc. contracted a nine hole diamond drilling program (Phase 2), totalling 1,740.40 metres and drilling BTW size core (42 mm diameter) to Falcon Drilling Ltd. (Prince George, British Columbia) between March 24th and April 30th, 2004 (Table 6.7). All of the diamond drilling was completed on mining claim TB-1240871, aimed at testing the Norton Zone at depth. With the exception of drill hole NL-09, all of the drill holes intersected the Norton Zone. All drill collars were left in the ground. Selected assay results are provided in Table 6-8.

Table 6-7. Phase 2 diamond drilling summary, completed by Cascadia International Resources Inc.

Drill Hole	Easting (m)	Northing (m)	Elevation (m)	Depth (m)	Azimuth	Dip
NL04-01	471018	5750241	271	224.9	180	72
NL04-02	471018	5750241	271	262.1	181.47	80
NL04-03	471018	5750241	271	186.0	181.12	45.89
NL04-04	470966	5750211	274	177.6	174.88	44.89
NL04-05	470966	5750211	274	231.8	176.28	69.47
NL04-06	470966	5750211	274	250.9	177.33	77.34
NL04-07	470913	5750121	275	101.5	182.11	45.47
NL04-08	470913	5750121	275	132.4	167.85	75.15
NL04-09	470913	5750121	275	173.2	32.37	88.8

Table 6-8. Selected drill core assay results from Phase 2, Cascadia International Resources Inc.

Drill Hole	From (m)	To (m)	Int (m)	Cu (%)	Ni (%)	Co (lb/t)	Pt (g/t)	Pd (g/t)
NL04-01	207.87	212.75	4.88	0.404	0.732	0.741	0.064	0.397
NL04-02	234.77	240.11	5.34	0.810	0.956	0.768	0.116	0.746
NL04-03	175.87	179.45	3.58	0.399	0.314	0.499	0.044	0.183
NL04-04	150.05	155.05	5.00	0.925	0.517	0.685	0.044	0.310



NL04-05	186.46	189.45	2.99	0.841	0.639	0.880	0.360	0.495
NL04-06	208.94	213.13	4.19	0.768	0.454	0.896	0.152	0.284
NL04-07	85.04	92.05	7.01	0.548	0.569	0.611	0.050	0.391
NL04-08	114.82	121.46	6.64	0.993	0.827	0.959	0.148	0.540

In December 2004, a helicopter-borne geophysical survey was flown over the property by Geotech Ltd. using their Dream Catcher TDEM system. This survey, comprising 520.1 line kilometres in 70.3 km², covered the previously unsurveyed eastern part of the Property referred to as Norton Lake East. The specifications of the survey and equipment are outlined in Geotech (2004). The data was plotted with total field magnetic contours, and stacked coloured EM profiles at a scale of 1:20,000. The airborne survey produced a large number of responses on the Norton Lake East property particularly in the western part of the claims trending approximately N70°E. The conductors follow closely the magnetic trend with some isolated anomalies found further east. Survey data were reviewed by Cavén (2004) and follow-up of the anomalies was recommended.

Between February 1st and 20th, and March 16th and April 5th, 2005, Crone Geophysics and Exploration Ltd. (Crone) completed a surface and borehole Pulse Time Domain Electromagnetic (PEM) survey on the Property. The survey comprised 11.75 line kilometres over 14 lines from four separate transmit loops and 13 PEM drill hole surveys. Surface survey data and profile plots from the drill hole surveys are provided by Crone (2005). The survey identified several conductors with a north-dipping (~70°) and east-plunging geometry (Table 6-9); a cautionary note was made that these could be due to sulphide facies iron formation.

In 2005, Cascadia International Resources Inc. contracted a nineteen hole diamond drilling program (Phase 3), totalling 5,191.00 metres and drilling BTW size core (42 mm diameter) to Falcon Drilling Ltd. (Prince George, British Columbia) from February 9th to April 8th, 2005 and from June 26th to August 23rd, 2005 (Johnson, 2005a). A summary of the drilling is provided in Table 6-10. Drill hole NL04-09, completed during Phase 2 drilling, was extended (NL05-09E) 52.5 metres from 173.20 metres to 225.70 metres. The majority of the diamond drilling was aimed at testing the Norton Zone at depth (to 400 metres) and along strike with drill holes NL05-25 and NL05-27 testing new geophysical and geological targets. Drill hole NL05-15 intersected a fault zone and had to be abandoned but with the exception of NL05-21, NL05-23, NL05-24 and NL05-26, all of the drill holes intersected the main sulphide mineralization of the Norton Zone. All drill collars except the collars of drill holes NL05-23 and NL05-24 were left in the ground. Selected assay results from the drill core samples are provided in Table 6-11. Locations of the drill holes are shown on Figures 6-1 and 6-2.

Table 6-9. Summary of surface conductors from surface geophysical survey (Crone, 2005).



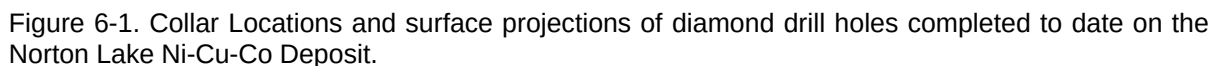
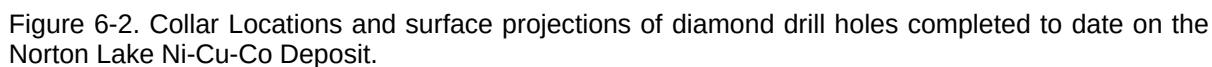
Conductor/Strength	Line Location	Geometry	Comments
1/strong	1600E/1200N	dipping 70°N	within 50 m of surface
2/strong	1600E/450N	dipping 60-70°N	within 70 m of surface
3/unclassified	1600E/225N	dipping north	not reported
1/strong	1500E/1200N	dipping north	within 75 m of surface
2/weak	1500E/450N	assumed north	conductor may end between 1500E and 1600E
3/moderate	1500E/225N	assumed north	within 95 metres of surface

Table 6-10. Phase 3 diamond drilling summary, completed by Cascadia International Resources Inc.

Drill Hole	Easting (m)	Northing (m)	Elevation (m)	Depth (m)	Azimuth	Dip
NL05-09E	470913	5750121	275	225.7	32.37	88.8
NL05-10	471015	5750300	272	353.0	180.01	81.97
NL05-11	471015	5750300	272	410.2	265.28	88.91
NL05-12	470964	5750291	274	363.4	180	82
NL05-13	470964	5750291	274	383.4	180.23	86.17
NL05-14	471066	5750312	272	374.3	179.15	82.03
NL05-15	471066	5750312	272	306.3	180	89
NL05-16	470919	5750189	272	244.5	180	82
NL05-17	470919	5750189	272	273.1	180	86
NL05-18	470919	5750189	272	322.8	180	90
NL05-19	470864	5750203	273	252.7	180	67
NL05-20	470864	5750203	273	276.1	180	77
NL05-21	470864	5750203	273	307.5	180	88
NL05-22	470864	5750203	273	191.7	180	47
NL05-23	470986	5750388	265	100.3	180	89
NL05-24	470986	5750388	265	158.2	180	87
NL05-25	471142	5750315	270	212.5	180	47
NL05-26	470925	5750354	268	469.2	160	88
NL05-27	472241	5750428	272	139.3	180	45

Table 6-11. Selected drill core assay results from Phase 3, Cascadia International Resources Inc.

Drill Hole	From (m)	To (m)	Int (m)	Cu (%)	Ni (%)	Co (ppm)	Co (lb/t)	Pt+Pd (g/t)
NL05-09E	173.30	183.92	10.62	0.65	1.21	510	1.12	0.89
NL05-10	311.12	319.91	8.79	0.82	0.70	331	0.73	0.62
NL05-11	172.48	178.29	5.81	0.35	1.26	410	0.90	0.72
NL05-12	310.44	323.28	12.84	0.85	1.00	383	0.84	0.66
NL05-13	337.15	347.60	10.45	0.57	1.02	361	0.79	0.70
NL05-14	333.09	338.86	5.77	0.63	0.84	588	1.29	3.26
NL05-16	219.05	223.70	4.65	0.94	1.13	521	1.15	2.09
NL05-17	235.64	245.25	9.61	1.44	1.11	458	1.01	0.82
NL05-18	248.40	263.54	15.14	0.92	0.86	392	0.86	0.69
NL05-19	209.63	216.20	6.57	1.16	1.08	430	0.94	0.82
NL05-20	238.96	242.26	3.30	0.47	0.33	193	0.42	0.46
NL05-22	174.56	180.93	6.37	0.98	0.72	422	0.93	0.66





6.1.8 J.R. Johnson, M.Sc. Thesis (2003-2005)

As part of an M.Sc. thesis, Johnson (2005b) completed reconnaissance geological mapping in the Norton Lake area (30 km²) in 2003 and 2004. This mapping was aimed at correlating the geology and geochemistry of the rocks in the Norton Lake region with the greenstone belts of the Uchi Subprovince located west of the study area, including the Pickle Lake Greenstone Belt. In addition, the thesis work included a mineralogical study of the mineral phases (platinum, palladium and cobalt) in the Norton Zone, and geochemical studies characterizing the rock units on the Norton Lake Property and within the Norton Lake region.

6.2 Mineral Resource Estimates – Wasabi Resources 1981

CCIC are aware of one previous Mineral Resource Estimate, completed by McLeod (1981). This Mineral Resource Estimate was not made in accordance with the categories set out in sections 1.2 and 1.3 of the National Instrument 43-101 Standards of Disclosure for Mineral Projects and the current CIM Standards on Mineral Resources and Reserves, and it is therefore not reliable.

CCIC did not rigorously verify the methodology or data used in this Mineral Resource Estimate and as such cannot equate this estimate to that of the standards set out by the Canadian Institute of Mining, Metallurgy and Petroleum (CIM).

7.0 GEOLOGICAL SETTING

The geology of the Norton Lake area was investigated and summarized by Johnson (2005b), providing an excellent overview of the regional- and property-scale geology.

7.1 Regional Geology

The Norton Lake Property is situated within Archaean age (~2.9-3.0 Ga) rocks of the Uchi Subprovince of the Superior Province, a subdivision of the Canadian Shield (Figure 7-1). In Ontario, the Uchi Subprovince extends for more than 600 kilometres eastward from the provincial border with Manitoba through to the Hudson Bay Lowlands and comprises several discontinuous greenstone belts (metavolcanic, metasedimentary and plutonic rock sequences) that are host to numerous world-class mineral deposits (i.e. gold and base metals). The Uchi Subprovince is separated from the English River Subprovince to the south, by the Sydney Lake-St. Joseph Fault and is in gradational contact with the Berens River Subprovince to the north (Johnson, 2005b).

Specifically, the Property is located within the northeast part of the Miminiska-Fort Hope Greenstone Belt (MFGB) which extends from about longitude 89°W, west of Miminiska Lake, through Fort Hope and eastward under cover of the Hudson Bay Lowlands. The northernmost portion of the MFGB is approximately 77 kilometres in length, varies from 10 to 16 kilometres in width, and is bordered on the north, south and west by granitic batholiths, and on the east by Palaeozoic sedimentary rocks of the



Hudson Bay Lowlands (Johnson, 2005b). In general, the MFGB consists of easterly-trending mafic-felsic volcanic rocks intercalated with metasedimentary rock sequences, typical of Archaean greenstone belts. Limited geological surveys of the belt have been completed due to its remote location and sparse outcrop.

Stott and Corfu (1991) correlated the northern rock assemblages of the Miminiska-Fort Hope Greenstone Belt with those of the North Caribou terrain, the Pickle Lake Greenstone Belt and the St. Joseph Greenstone Belt (Figure 7-2). Through trace-element geochemistry and radiogenic isotope data, Johnson (2005b) provided support for the correlation of the volcanic rock assemblages in the Norton Lake region with those of the Northern Pickle assemblage in the Pickle Lake Greenstone Belt.

7.2 Local and Property Geology

Johnson (2005b) completed reconnaissance geological mapping over a 30 km² area in 2003 and 2004. Outcrop exposure is generally very poor (2 to 5%) and is concentrated in east-west trending ridges. The Norton Lake Property is underlain by massive to pillowed basalt with subordinate sedimentary rock units and mafic (gabbro) to ultramafic (pyroxenite) intrusions (Figure 7-3). Detailed descriptions of the volcanic and sedimentary rocks, iron formation, and granitic rocks are provided by Johnson (2005b) with ancillary descriptions offered by Ellingham (1988) and (Hallé and Middleton, 2001). Glacial striae on outcrop were noted to trend 249° (Hallé and Middleton, 2001).

In general, the rocks of the Property have been subjected to metamorphic grades ranging from upper greenschist to lower amphibolite facies (chlorite, tremolite-actinolite), with higher (mid- to upper amphibolite facies) grade metamorphism apparent in rocks proximal to intrusive bodies (chlorite, garnet).

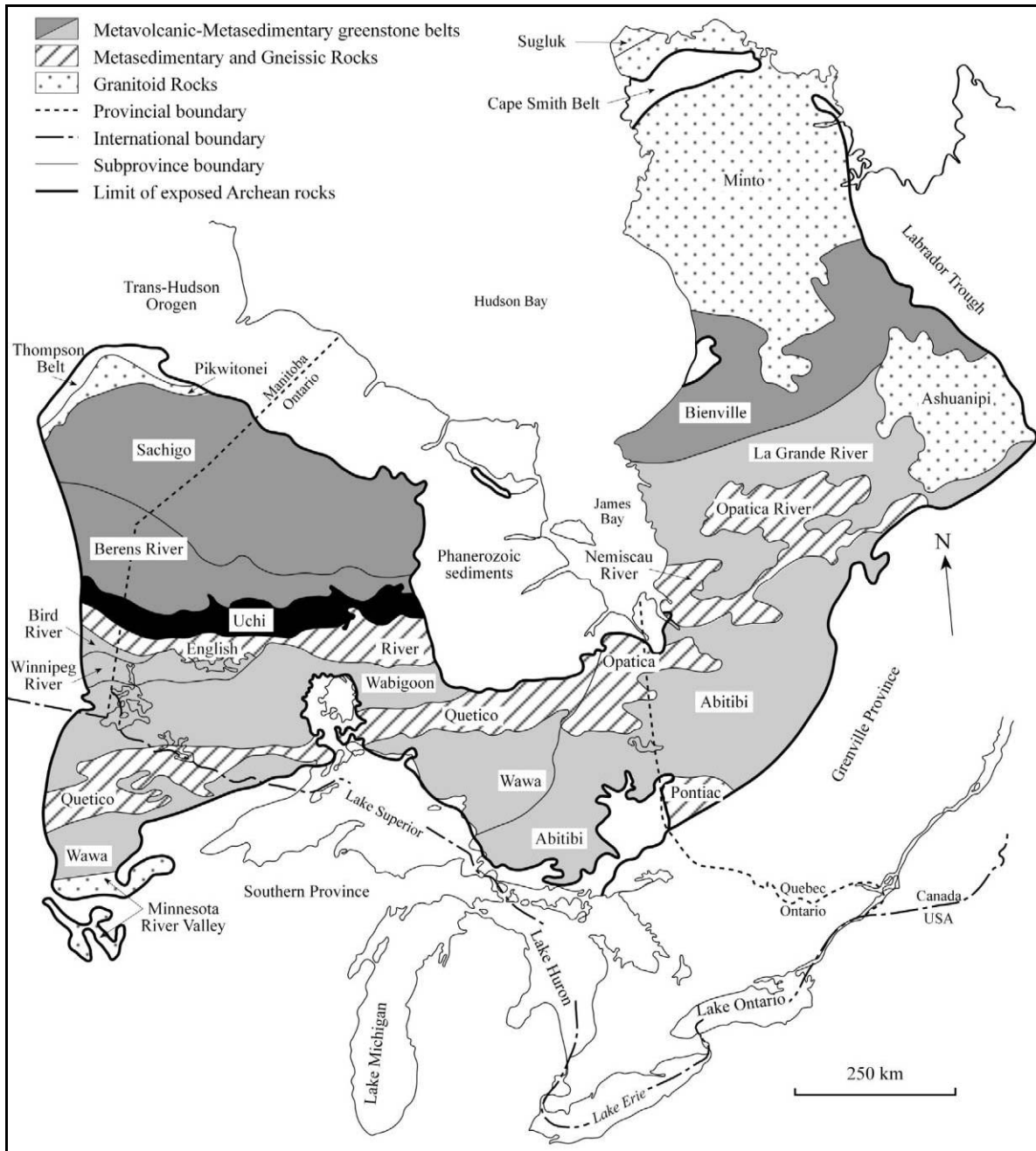


Figure 7-1. Generalized map of the Superior Province illustrating the various geological sub-provinces. The Uchi Subprovince is highlighted in black (from Johnson, 2005b).

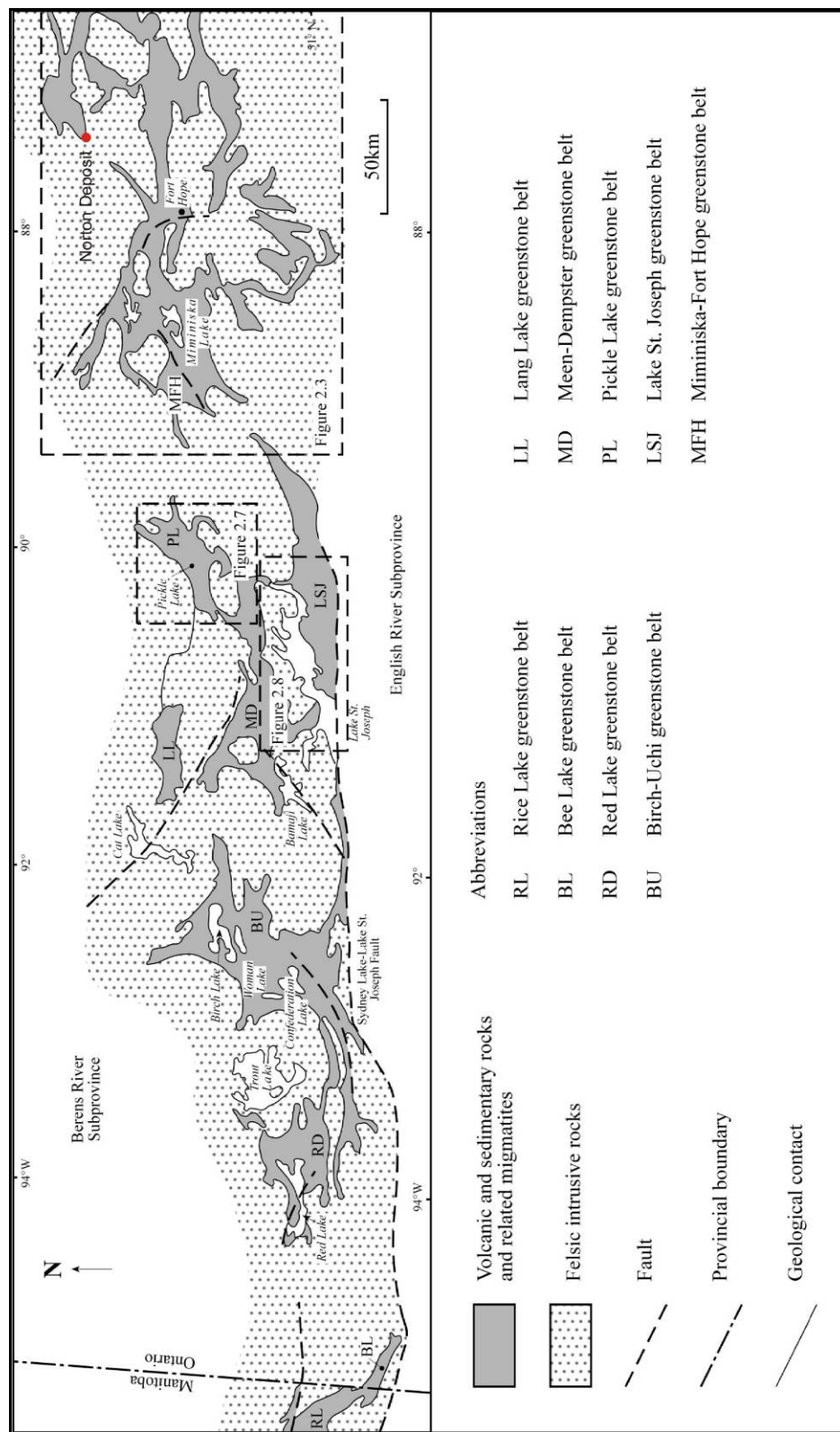


Figure 7-2. Generalized geological map of the Uchi Subprovince illustrating the location of the Norton Lake Ni-Cu-Co Deposit (red filled circle) (modified after Johnson, 2005b).



7.2.1 Mafic-Ultramafic Intrusives

Johnson (2005b) identified numerous small outcrops (10 to 15 m strike length) of massive, medium- to coarse-grained pyroxenite and gabbro on the Property. Due to poor exposure it was unclear to Johnson (2005b) whether or not the outcrops represent discrete mafic-ultramafic bodies or continuous sills and/or dikes. Johnson (2005b) speculated, on the basis of geophysical survey data, that the bodies are discrete intrusions, ranging from 10 metres to 200 metres in diameter, as they lack lateral continuity in the geophysical response (Figure 7-4).

The intrusive body that hosts the Norton Zone is unnamed, but for the purposes of this Report it is referred to as the Norton Lake Intrusion. On the basis of drill core, the mafic-ultramafic intrusion varies in width from about 10 to 30 metres, is poorly layered and mainly consists of pyroxenite, with subordinate gabbro and leucogabbro; although generally massive, the pyroxenite and gabbro are locally foliated and brecciated. Delineation of the intrusion by drilling suggests that the Norton Lake Intrusion is a discrete pyroxenitic stock of limited strike length. This body may have been part of a larger intrusion that became structurally attenuated and fragmented, resulting in several discrete bodies spread out along an 11 km long strike length, as suggested from geophysical surveys in the area.

Semi-massive to massive sulphide mineralization in the Norton Zone is located within the mafic-ultramafic intrusion, at the contact between an underlying (south), sheared “amphibolite tuff” and an overlying (north) mafic volcanic unit (Johnson, 2005b). The hanging wall comprises mafic (basalt) volcanic rocks and the footwall is primarily sedimentary rocks that have been logged as quartzite and amphibolitic tuff. The amphibolite tuff unit is interpreted to be a highly deformed pyroxenite, now metamorphosed to amphibole (i.e. hornblende).

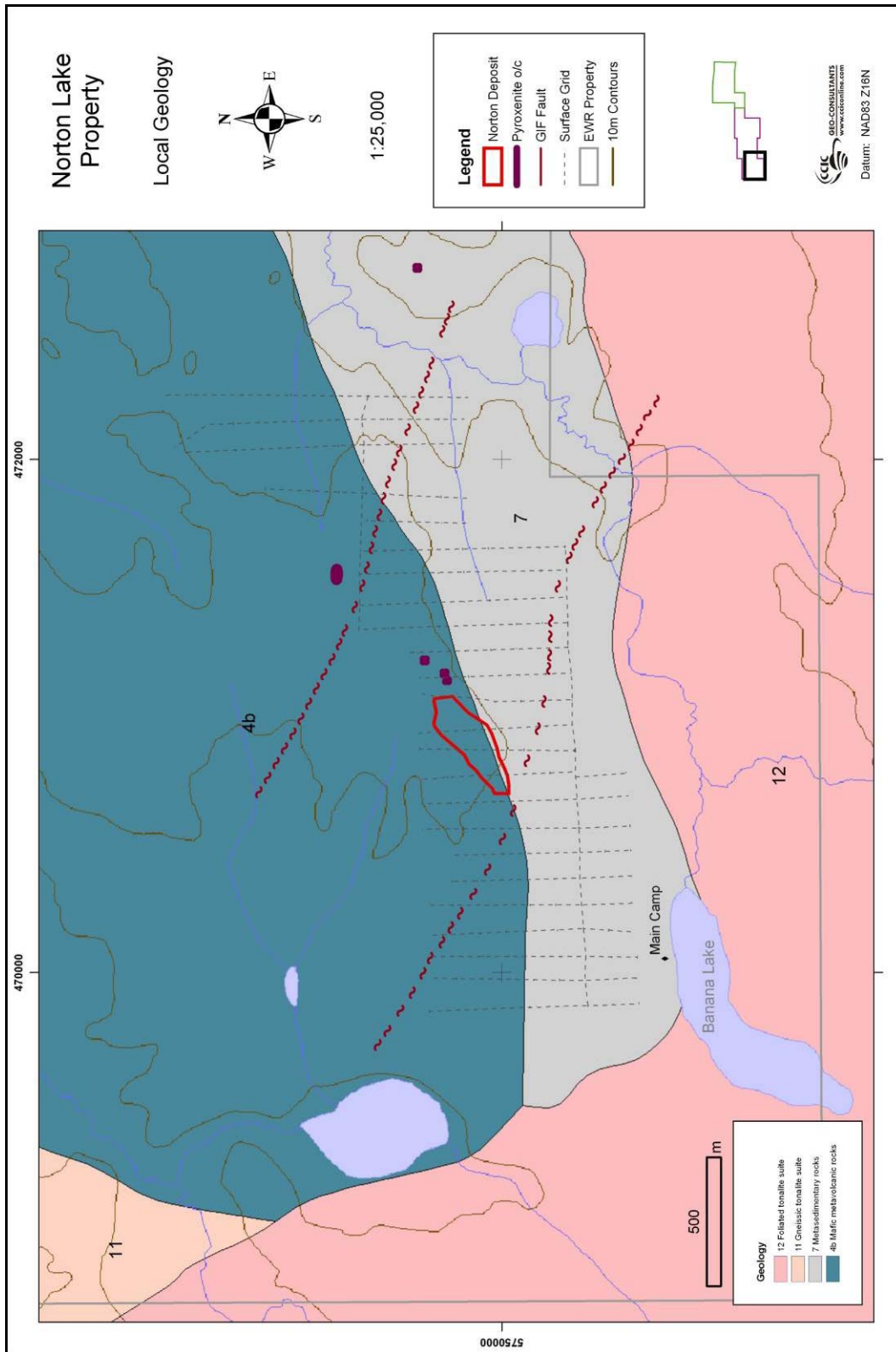


Figure 7-3. Local geology, geophysically inferred structures, and surface projection of sulphide mineralization, Norton Lake Property.

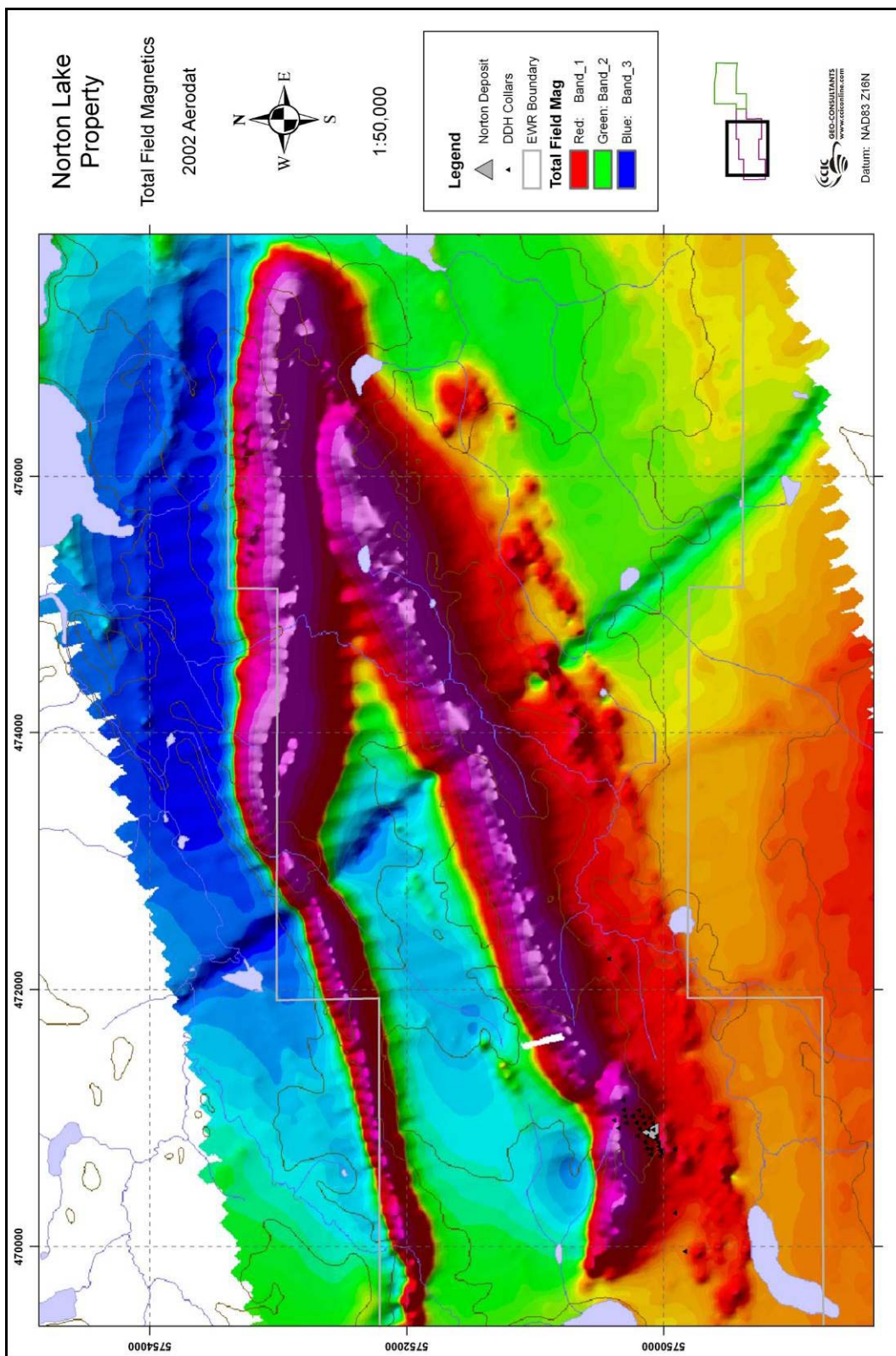


Figure 7-4. Airborne magnetometer survey showing magnetic response from folded iron formation and structural discontinuities, Norton Lake Property (lower right, black triangles and grey triangle).



7.2.2 Structural Geology

The Norton Lake Property is dominated by a large antiformal fold with an east-plunging axis (Johnson, 2005b). This main structural feature is a north-dipping, overturned syncline whose axis trends nearly east-west, with a north-south anticlinal cross fold that has resulted in near-closure of the west opening syncline (Johnson, 2005b). The Norton Zone is located in the westernmost area of the southern limb (Figure 7-3). Banded iron formation, as interpreted from geophysics, highlight the folds (Figure 7-4) and close in the centre, due to the anticlinal cross fold, and are open to the west and east, resulting in two subsidiary anticlinal folds. The first folded iron formation is located in the area of the Norton Zone, whereas the second occurs within the sedimentary and volcanic rocks located further to the east in the Hale Lake area (Johnson, 2005b).

In the southern portion of the Property, lineation planes and bedding tend to dip steeply to sub-vertical toward the north, and north of the synclinal fold axis, the dips change to steeply south and sub-vertically north (Johnson, 2005b). Foliation and pillow top determinations parallel the structure of the geophysically interpreted fold nose (Johnson, 2005b). Strike and dip determinations from sedimentary bedding and volcanic flow tops indicate a general east-west strike (75° - 95°), dipping steeply (70° - 90°) toward the north (Johnson, 2005b).

East-northeast trending regional-scale faults cut the Property along with several north-northwest trending faults; a north-northwest fault cuts the western extent of the Norton Zone (Figures 7-3, 6-1 and 6-2). Ellingham (1988) describes geophysically-interpreted (airborne magnetic survey), west-northwest trending structural features that are associated with the fold nose and the southern fold limb with displacement and discontinuities along the trace of the iron formation (Figure 7-4).

8.0 DEPOSIT TYPES

The objective of the exploration programs is the discovery and delineation of magmatic, intrusion-hosted, semi-massive to massive sulphide deposits. Principal elements of commercial interest are nickel, copper and cobalt, usually accompanied by recoverable sulphide associated palladium contents. These deposit types are generally referred to as orthomagmatic massive sulphide deposits.

The principal economic target on the Norton Lake Property is a postulated multi-million tonne open pit and underground mineable deposit or deposits, lying within 500 metres of surface. The focus on the Property is delineation of the Norton Lake Ni-Cu-Co Deposit or Norton Zone, a zone of sulphide mineralization which formed the basis for the Mineral Resource Estimate. Although the deposit is not exposed at surface it is generally well defined by diamond drilling and geophysical surveys.



8.1 Deposit Model

Although similar in many respects to other Archaean age, intrusion-hosted magmatic sulphide deposits (e.g. Shebandowan Ni-Cu deposit, Ontario), the Norton Zone is best compared to the past-producing Thierry Mine near Pickle Lake, Ontario. The Thierry Mine is located within a 1,100 metre long and 1,000 metre deep structure which hosts several sulphide lenses that were 5 to 30 metres thick. At the time of mine closure in 1982, UMEX reported an ore reserve of about 7 million tonnes with an average grade of 1.88% Cu and 0.23% Ni; the methodology or data used for the reserve reported by UMEX has not been verified by CCIC and hence, this reserve estimate should not be relied on. Subsequent work by PGM Ventures Corporation has demonstrated additional credits of gold, silver and platinum-group elements. Further information on the Thierry Mine is available from Patterson and Watkinson (1984a; 1984b).

Johnson (2005b) suggested several similarities between the Thierry Mine, located within the Northern Pickle assemblage of the Pickle Lake Greenstone Belt, and the Norton Zone, including:

- tectonic setting: back arc environment
- structure: folded about northeast-trending axes; faults parallel to high angle to fold axes
- metamorphic grade: greenschist to amphibolite facies
- host: mafic to ultramafic rocks and their sheared equivalents
- sulphur source: local iron formation
- mineralization type: semi-massive to massive sulphide (20-80%) in breccia; minor disseminated sulphide; remobilized sulphide as stringers
- mineralization form: sulphide mineralization in lenses
- mineralogy: pyrrhotite, chalcopyrite and pentlandite, palladium tellurides and violarite

The mylonite and breccia sulphide ore at the Thierry Mine is structurally controlled, concentrated where conjugate faults cut mafic or ultramafic rocks. Ratios of Cu:Ni from the mylonite and breccia sulphide ores reflect this, averaging about 8:1. In contrast, Cu:Ni ratios in the Norton Zone average about 1.3 (from 479 samples with >1,000 ppm Ni). The very high Cu:Ni ratio in the structurally controlled ores from the Thierry Mine is explained by the proximity of the Thierry Mine to a major mylonite structural zone which resulted in extreme secondary remobilization of the sulphide and partitioning of the Cu-Ni metals into zoned ores. Certainly the high Pd:Pt ratio from the Norton Zone (about 6:1) suggests remobilization and partitioning of the magmatic sulphide, with Pd correlating with elevated Cu concentrations. However, relatively low Cu:Ni ratios from the Norton Zone suggest near primary (magmatic) sulphide, leaving open the possibility for massive Cu-dominated sulphides, which may be hosted by major structures in or proximal to the Norton Zone; a future exploration target that has yet to be fully appreciated.



CCIC were unable to verify the information on the Thierry Mine provided by the above mentioned authors, and the mineralization at the Thierry Mine is not necessarily indicative of the mineralization of the Norton Lake Property.

9.0 MINERALIZATION

9.1 Mineralization Style and Control

The Norton Zone is hosted by what is colloquially referred to as the Norton Lake Intrusion, a discrete stock-like mafic-ultramafic body. Semi-massive to massive sulphide mineralization in the Norton Zone is located within the mafic-ultramafic intrusion, at the contact between an underlying (south), sheared “amphibolite tuff” (interpreted to be a highly deformed and metamorphosed pyroxenite) and an overlying (north) mafic volcanic unit (Johnson, 2005b). The Norton Zone appears to be defined by two lenses (Figure 9-1) and has been traced by diamond drilling over a strike length ranging from 225 to 300 metres, and locally to about 400 metres depth, with true widths ranging between 5 and 10 metres, and averaging about 7.0 metres.

The sulphide zone is commonly brecciated (durchbewegung texture) with the breccia primarily consisting of mafic, ultramafic, and gabbroic fragments in a deformed, sulphide-bearing matrix; highly siliceous (cherty) fragments were also noted and these were likely sourced from local iron formation (Johnson, 2005b). McLeod (1981) described the sulphide mineralization as mainly massive pyrrhotite in irregular stringers, veins and patches forming 10% to 75% of the rock volume and averaging 30-35%; chalcopyrite is erratically distributed in grains, patches and seams. Hallé and Middleton (2002) describe the mineralization as massive to stringer pyrrhotite, to 80% by volume, including primary exsolved chalcopyrite and minor metamorphic pyrite. Pentlandite and violarite are the primary nickel-bearing minerals and localized sphalerite and arsenopyrite were noted by McLeod (1981). Johnson (2005b) described the magmatic sulphide mineralization as pyrrhotite dominated with subordinate pentlandite, chalcopyrite (72% pyrrhotite, 14% chalcopyrite, and 14% pentlandite re-calculated to 100% sulphide) and pyrite, with secondary pyrite replacing pyrrhotite. Johnson (2005b) also noted minor amounts of magnetite and manganese-rich ilmenite, and trace amounts of violarite ((Ni,Fe)₃S₄), molybdenite, galena, sphalerite and skutterudite (CoAs₂).

McLeod (1981) speculated that the original accumulation of sulphide mineralization was controlled by a roll or fold in the contact. Sulphides are present in iron formation as well as in the matrix of a dike-like ultramafic intrusive rock, suggesting that sulphur may have been assimilated into the ultramafic magma and subsequently precipitated Ni, Cu, PGE sulphides during crystallization (McLeod, 1981; Hallé and Middleton, 2002). Hallé and Middleton (2002) suggested that the sulphur source was a chert-sulphide iron formation, occurring along strike to the Norton Zone. Post magmatic



remobilization of sulphides, likely as a result of regional metamorphism and local structural deformation, is evidenced by sulphide veinlets which cross-cut all rock units.

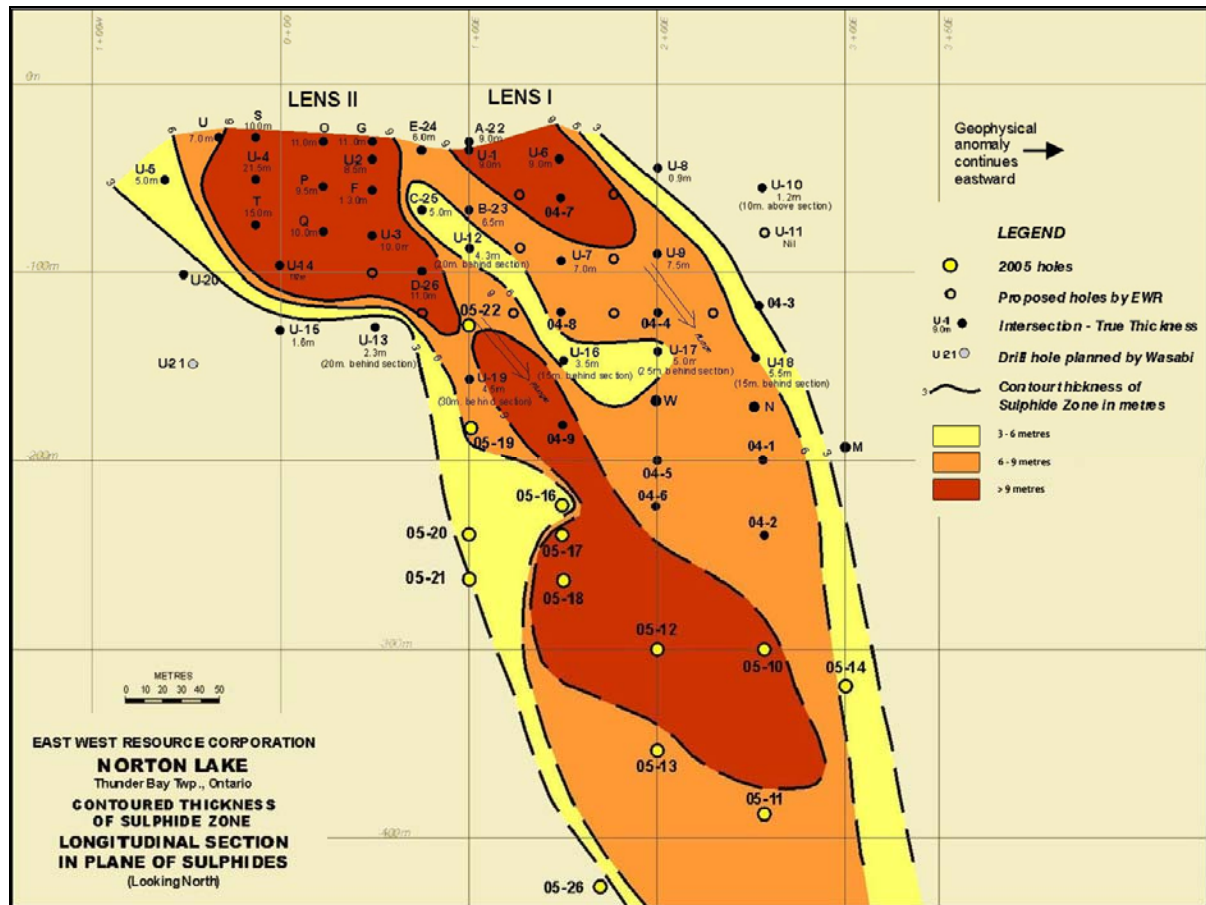


Figure 9-1. Longitudinal section in plane of sulphides through the Norton Lake Ni-Cu-Co Deposit along an east-west section, looking north (modified from East West website).

9.2 Mineralogy

A study of the mineralogy of the Norton Zone sulphide mineralization by reflected light microscopy, scanning electron microscope, and electron microprobe led to the identification of several platinum-group minerals including michenerite (PdBiTe), testibiopalladite (PdSbTe), kotulskite (PdTe), merenskyite (PdTe_2), vysotskite (PdS), sperrylite (PtAs_2) and associated tellurides such as hessite (Ag_2Te), all typical of magmatic Ni-Cu deposits (Johnson, 2005b). These minerals occur as enclosed grains within sulphides (pyrrhotite, pentlandite, pyrite, chalcopyrite, galena), arsenides (skutterudite) and oxides (manganian ilmenite, magnetite) and along grain boundaries of the sulphide and gangue minerals. Johnson (2005b) also noted a change in the ratios of Pt:Pd, from about 1:4 for the majority to about 3:1, within a narrow linear trend within the Norton Zone, suggesting an increase that is correlative with an increase in the abundance of Pt-bearing minerals.



9.3 Mineralizing Events

A study of the mineralogy of the deposit by Johnson (2005b) suggested two stages of mineralization. The first, due to sulphide saturation of the ultramafic intrusion through assimilation of an iron formation, accounts for formation of the primary (magmatic) sulphide phases. The second, involving the hydrothermal remobilization and enrichment of Cu and platinum-group elements, resulted in the formation of cross-cutting chalcopyrite veins and various Pd tellurides. The majority of Pt within the deposit has been found to be contained within the sulphide phases either as micro-inclusions, below the detection limits of an electron microprobe, or in solid solution with the sulphide phases.

10.0 EXPLORATION

To date, airborne and ground geophysical surveys on the Property have outlined a series of east-northeast trending EM conductors over a strike length of more than 11 km (Figure 10-1). The TDEM survey flown in February 2003 confirmed an eastward plunge ($>45^\circ$) to the sulphide zone which was first interpreted to exist on the basis of diamond drilling intercepts (Figure 9-1). In addition, a chain of magnetic and/or electromagnetic anomalies are interpreted to reflect other favourable pyroxenite bodies along strike from the Norton Zone, offering a series of new targets along an 11 km strike length (Figure 10-1).

This section describes the recent geophysical exploration conducted on the Norton Lake Property.

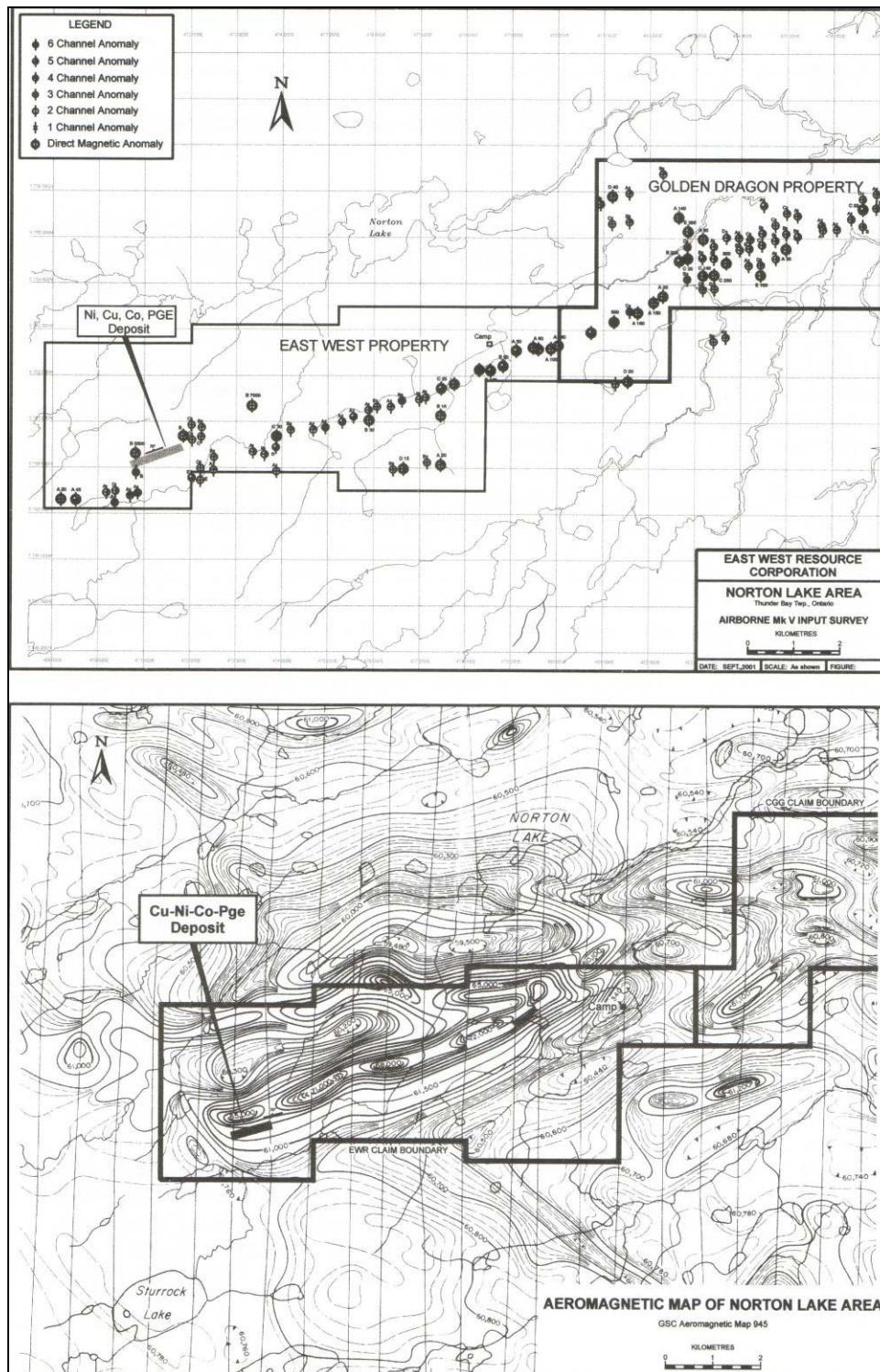


Figure 10-1. Regional geophysical surveys of the Norton Lake Property, showing 1970 MKV Input conductors (upper image) and regional aeromagnetic map (GSC Map No. 945).



10.1 Airborne Geophysical Surveys

The Norton Lake AeroTEM survey was designed to collect high resolution magnetic and time-domain electromagnetic data over the Norton Lake project. Flown in August 2007 by Aeroquest International Ltd. the survey consisted of 673.92 line-km over an area of 4346 ha. Survey specifications are listed in Table 10-1. The Norton Lake AeroTEM survey was based in Fort Hope, ON. The centres of Block 1 and Block 2 are approximately 52km and 68km E-N-E of Fort Hope respectively (Figure 10-2).

Table 10-3 summarizes the parameters utilized to calculate the magnetic field vector for the survey area using the International Geomagnetic Reference Field (IGRF), a standard mathematical description of the Earth's main magnetic field. The values were computed in Geosoft and estimated a magnetic intensity of 58362.13nT, with inclination of 76.94° and declination of -6.49° at the location of the Norton Lake deposit.

Table 10-1. Specifications of the Norton Lake AeroTEM Survey

Item	Specification
Project	Norton Property
Survey Name	Norton Lake AeroTEM
Survey Type	Helicopter-borne magnetics and electromagnetics
Platform	Time domain towed-bird system (includes magnetics)
Instrument	AeroTEM II
Flown By	Aeroquest International Ltd.
Aircraft	Eurocopter AS350B2 "A-Star" C-FDEV
Date	August 8 th -15 th , 2007
Line km – Block 1	241.49 km
Area – Block 1	2395 ha
Line km – Block 2	422.43 km
Area – Block 2	1951 ha
Total Line-km	673.92 km
Total Area	4346 ha
Flight Height	68m – aircraft, 30m – terrain clearance
Waveform	Triangular – On-time 1.10ms, Base frequency 150 Hz, Full cycle 300ms
Line Spacing	50m and 100m
Line Direction	340°
Tie line Spacing	1000m
Tie line Direction	070°
Survey Base	Fort Hope, ON

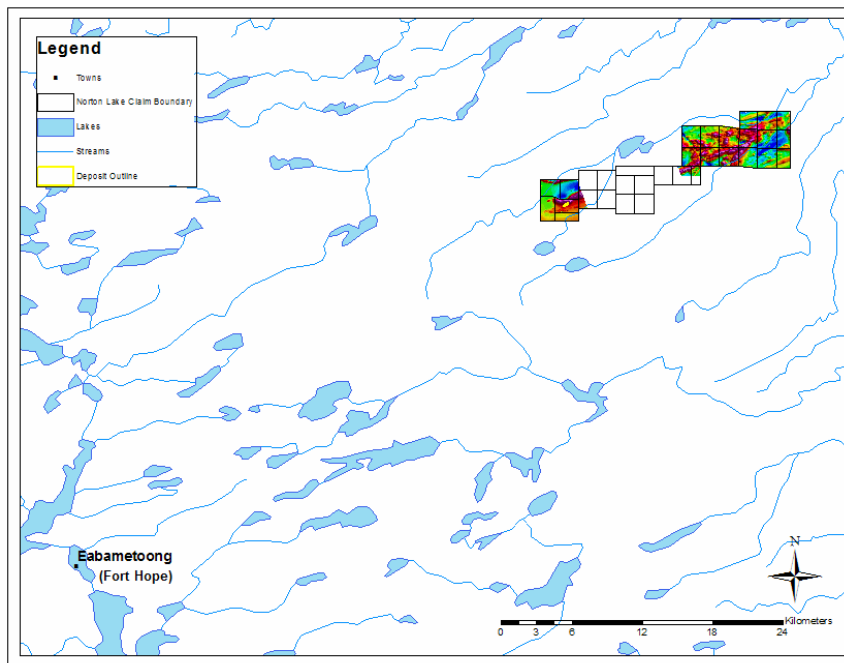


Figure 10-2. Norton Lake AeroTEM Survey Location Map. The Norton Lake Deposit is outlined in yellow.

The survey consisted of two blocks: Block 1 covers the Norton Lake deposit, and Block 2 covers the north-eastern extension of the claims. In Figure 10-3 the Norton Lake Deposit is outlined in yellow and the claim boundaries are outlined in black.

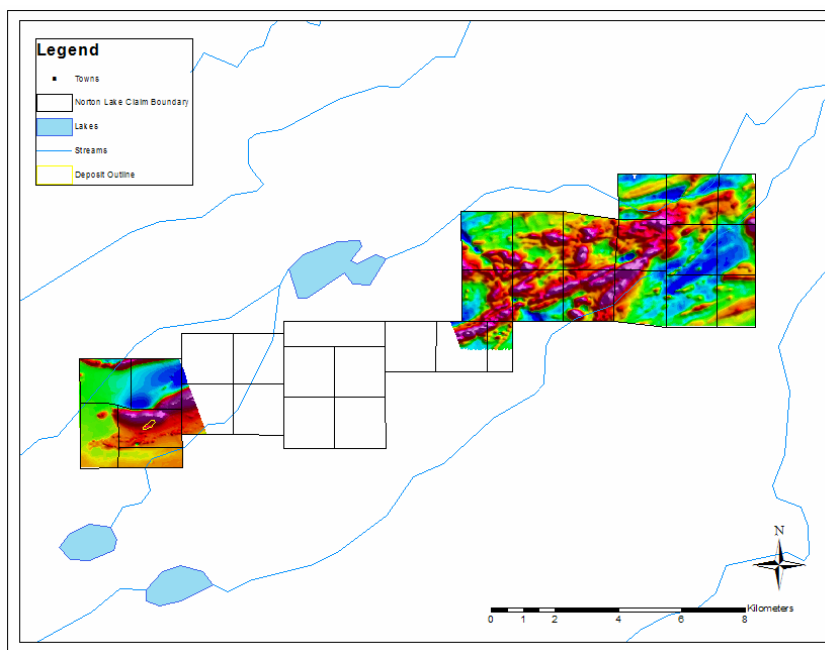


Figure 10-3. Blocks 1 (West) and 2 (East) of the Norton Lake survey. The Norton Lake Deposit is outlined in yellow.



The Aeroquest AeroTEM II system employs a symmetric triangular wave-form with on-time pulse of 1.10 ms and a base frequency of 150 Hz. The current alternates polarity every on-time pulse. During every Transmitter (Tx) on-off cycle (300 per second), 120 contiguous channels of raw X and Z component of the received waveform are measured. Each raw data channel width is 27.78 microseconds starting at the beginning of the transmitter pulse. This raw streamed data is later processed to yield 33 stacked and binned on-time and off-time channels at a 10 Hz sample rate. A schematic of the waveform is shown in Figure 10-4 and the final processed EM channels is described in Table 10-2 (Garrie and Smith, 2007).

Standard and enhanced gridding filters were applied to the Norton Lake AeroTEM data based on the calculated International Geomagnetic Reference Model (IGRF).

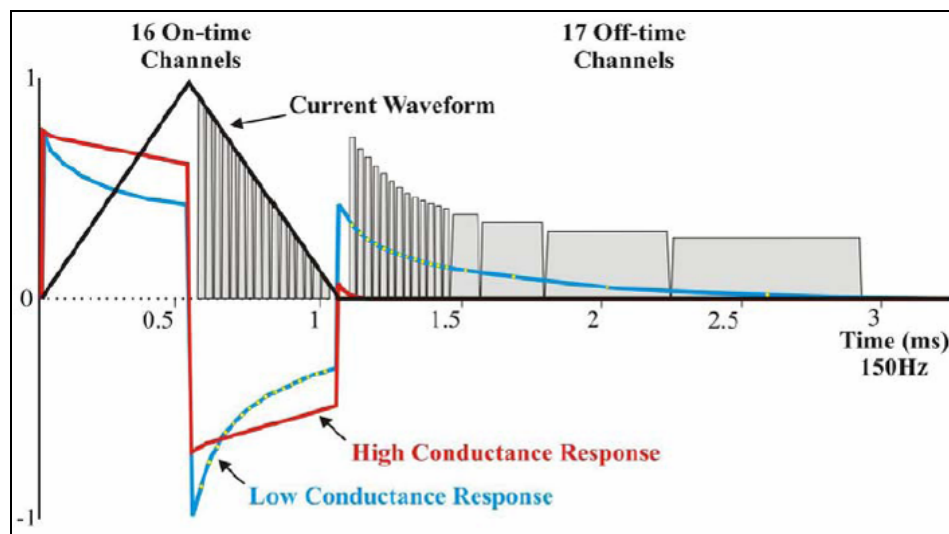


Figure 10-4. Schematic of Transmitter and Receiver Waveforms (Garrie et al, 2007).

Table 10-2. Channel time summary of the AeroTEM system

Channel	Sample Range	Time Width (µs)	Time Centre (µs)	Time After TxOn (µs)
On1	4 - 4	27.778	97.222	94.046
On2	5 - 5	27.778	125	121.824
On3	6 - 6	27.778	152.778	149.601
On4	7 - 7	27.778	180.556	177.379
On5	8 - 8	27.778	208.333	205.157
On6	9 - 9	27.778	236.111	232.935
On7	10 - 10	27.778	263.889	260.712
On8	11 - 11	27.778	291.667	288.49
On9	12 - 12	27.778	319.444	316.268
On10	13 - 13	27.778	347.222	344.046
On11	14 - 14	27.778	375	371.824
On12	15 - 15	27.778	402.778	399.601



Channel	Sample Range	Time Width (µs)	Time Centre (µs)	Time After TxOn (µs)
On13	16 - 16	27.778	430.556	427.379
On14	17 - 17	27.778	458.333	455.157
On15	18 - 18	27.778	486.111	482.935
On16	19 - 19	27.778	513.889	510.712
Off0	44 - 44	27.778	1208.333	74.191
Off1	45 - 45	27.778	1236.111	101.968
Off2	46 - 46	27.778	1263.889	129.746
Off3	47 - 47	27.778	1291.667	157.524
Off4	48 - 48	27.778	1319.444	185.302
Off5	49 - 49	27.778	1347.222	213.08
Off6	50 - 51	55.556	1388.889	254.746
Off7	52 - 53	55.556	1444.444	310.302
Off8	54 - 55	55.556	1500	365.857
Off9	56 - 57	55.556	1555.556	421.413
Off10	58 - 60	83.333	1625	490.857
Off11	61 - 63	83.333	1708.333	574.191
Off12	64 - 67	111.111	1805.556	671.413
Off13	68 - 73	166.667	1944.444	810.302
Off14	74 - 81	222.222	2138.889	1004.746
Off15	82 - 94	361.111	2430.556	1296.413
Off16	95 - 114	555.556	2888.889	1754.74

Table 10-3. IGRF for the Norton Lake AeroTEM Survey

IGRF Parameter	IGRF Value
Project	Norton Property
Survey	Norton Lake AeroTEM
Type	Helicopter-borne magnetics and electromagnetics
Easting	470900.32
Northing	5750105.42
Datum	NAD83
Projection	UTM Zone 16N
WGS84_Longitude	-87.25.22.62
WGS84_Latitude	51.54.03.39
WGS84_Longitude_Decimal	-87.422949342
WGS84_Latitude_Decimal	51.900942914
Elevation MSL (m)	261.56
Date	August 12 th , 2007
Magnetic Inclination	76.94°
Magnetic Declination	-6.49°
Magnetic Intensity	58362.13 nT



Aeroquest identified several conductive anomalies based on conductance, and thickness of the source. A thin, vertically orientated source produces a double peak anomaly in the z-component response and a positive to negative crossover in the x-component response (Figure 10-5). For a vertically orientated thick source (i.e. greater than 10 meters), the response is a single peak in the z-component response and a negative to positive crossover in the x-component response (Figure 10-6). For shallow dipping conductors the 'thin pick' will be located over the edge of the source, whereas the 'thick' pick will fall over the downdip 'heart' of the anomaly (Figure 10-7; Gerrie et al, 2007).

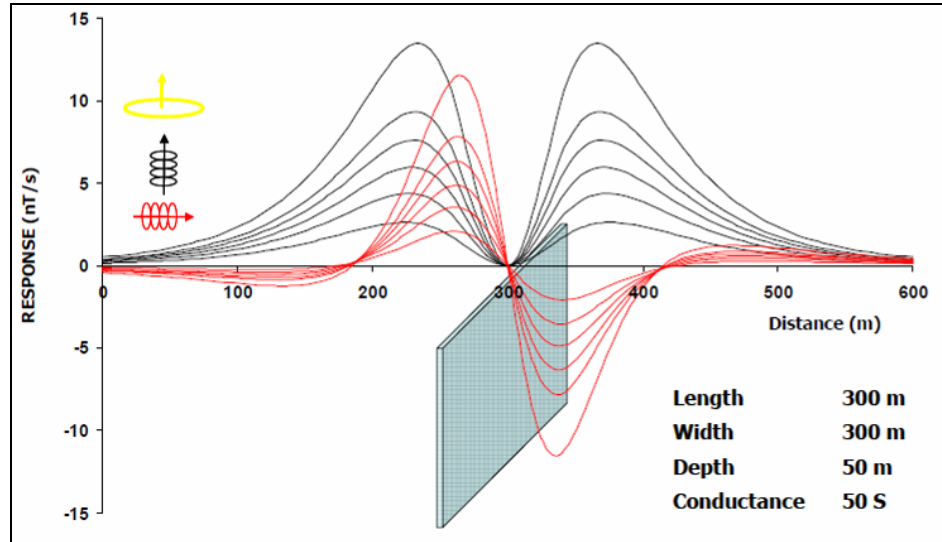


Figure 10-5. AeroTEM response to a 'thin' vertical conductor (Gerrie et al, 2007)

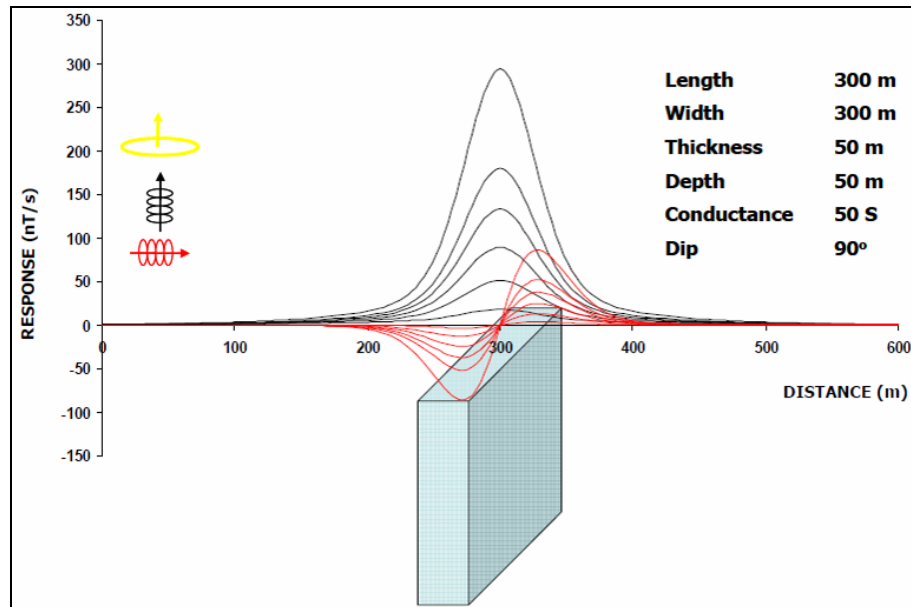


Figure 10-6. AeroTEM response for a 'thick' vertical conductor (Garrie and Smith, 2007).

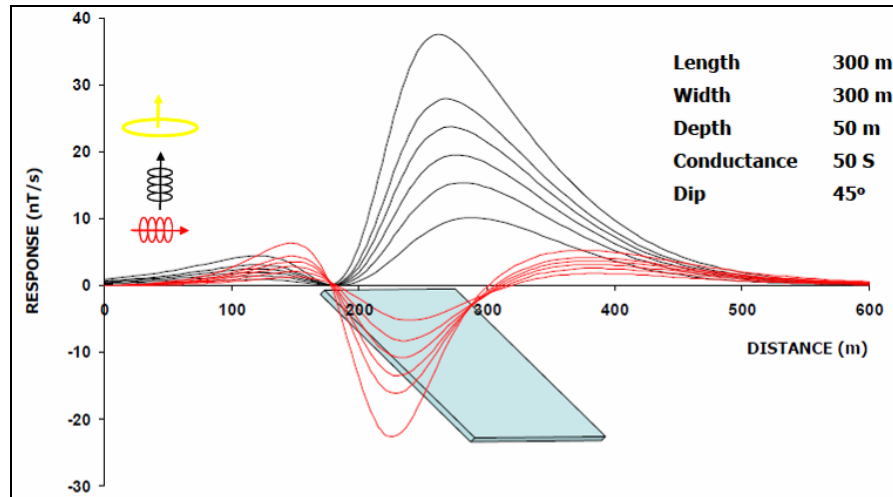


Figure 10-7. AeroTEM response over a 'thin' dipping conductor (Garrie and Smith, 2007).

The results for Block 1 are displayed in Figures 10-8 to 10-10. These show the total magnetic intensity, first vertical derivative with identified conductors and second Z-off channel with identified conductors. Selected anomalies in Block 1 are presented in Table 10-4.

Regionally, the Norton Lake deposit occurs on the western most area of the southern limb of antiformal fold with east-plunging axis (Johnson, 2005b). These limbs are interpreted from the geophysics to be delineated magnetically by a content of banded-iron formation. The predominant strike direction ranges from 070°-075°. In general, the major magnetic feature/southern fold limb has conductive association as does the Norton Lake deposit, and collection of smaller discrete magnetic responses to south. The magnetic arm of the northern fold limb lacks a conductive association.

The southern bound of Norton Lake deposit has coincident magnetic and conductive response, and is shown in Figure 10-11. The conductive response has a strike length of 400m, extending slightly past the strike length of the magnetic signature. Given the conductive response, it is estimated to be a thick, near-vertical conductor. It is conductive through all time channels. This response may indicate the presence of a feeder zone. Several additional magnetic/conductive anomalies exist within the survey blocks. These should be investigated further as potential exploration targets.

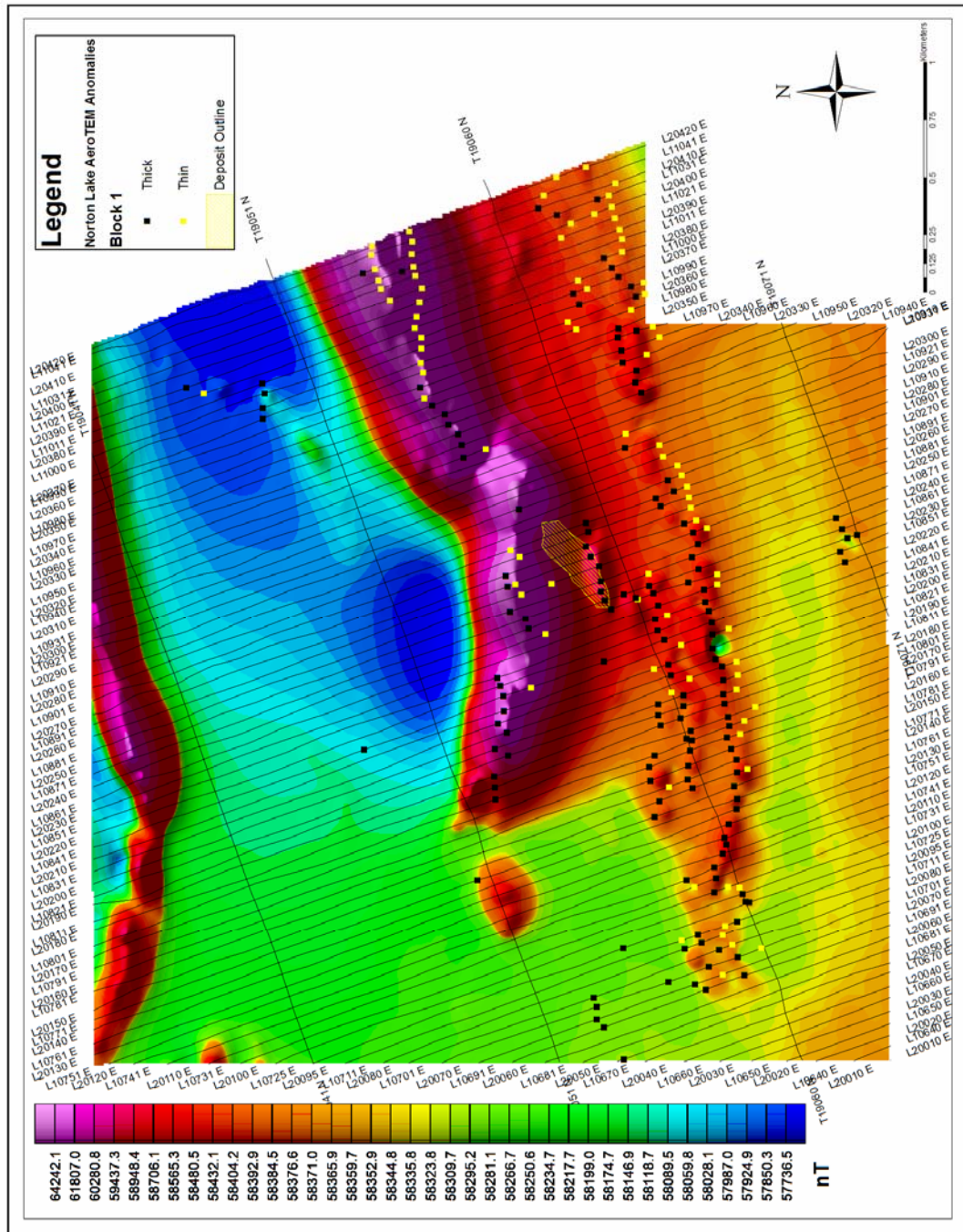


Figure 10-8. Total Magnetic Intensity of Block 1 of the Norton Lake AeroTEM survey. The deposit is outlined in yellow.

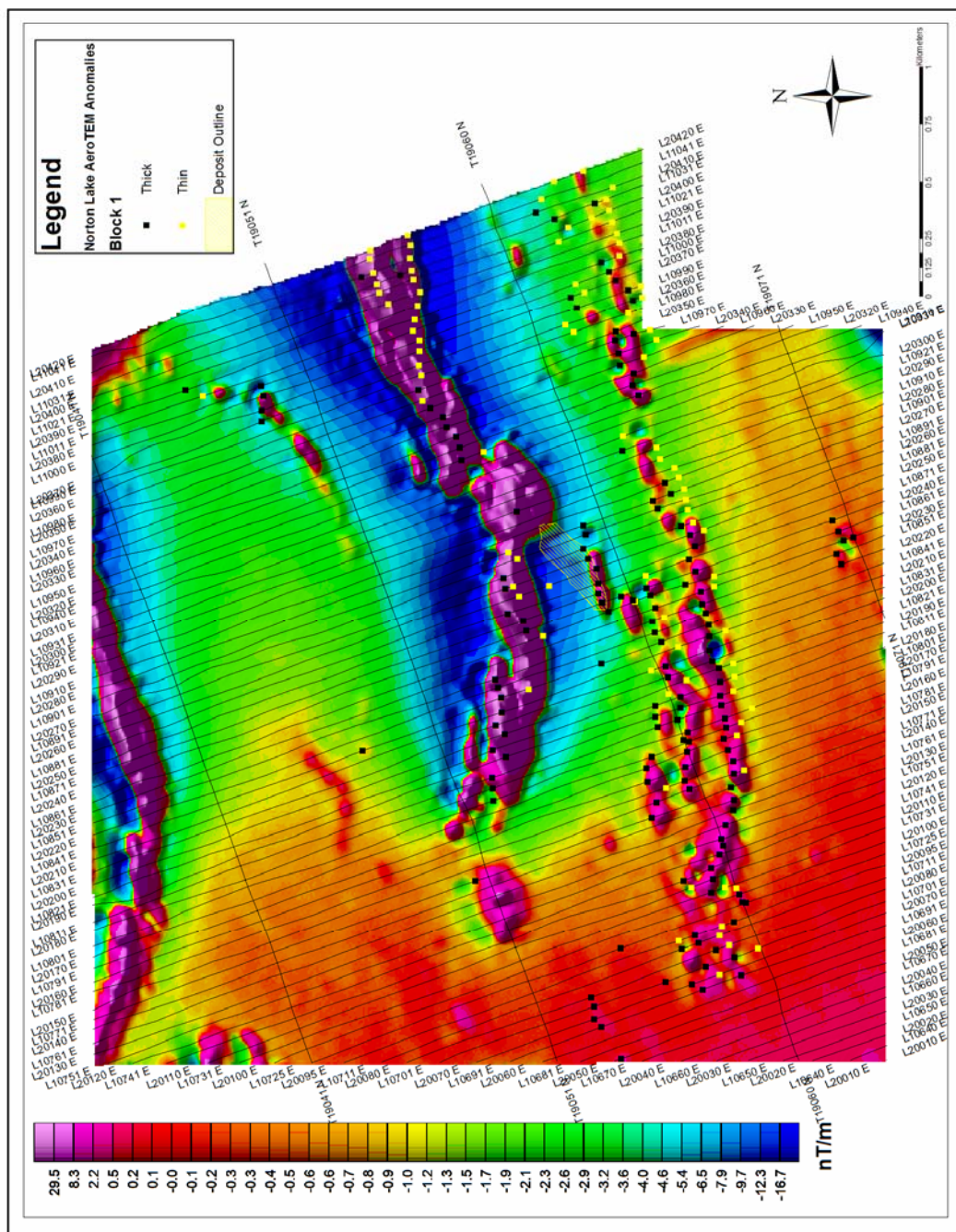


Figure 10-9. First Vertical Derivative of Block 1 of the Norton Lake AeroTEM survey. The deposit is outlined in yellow.

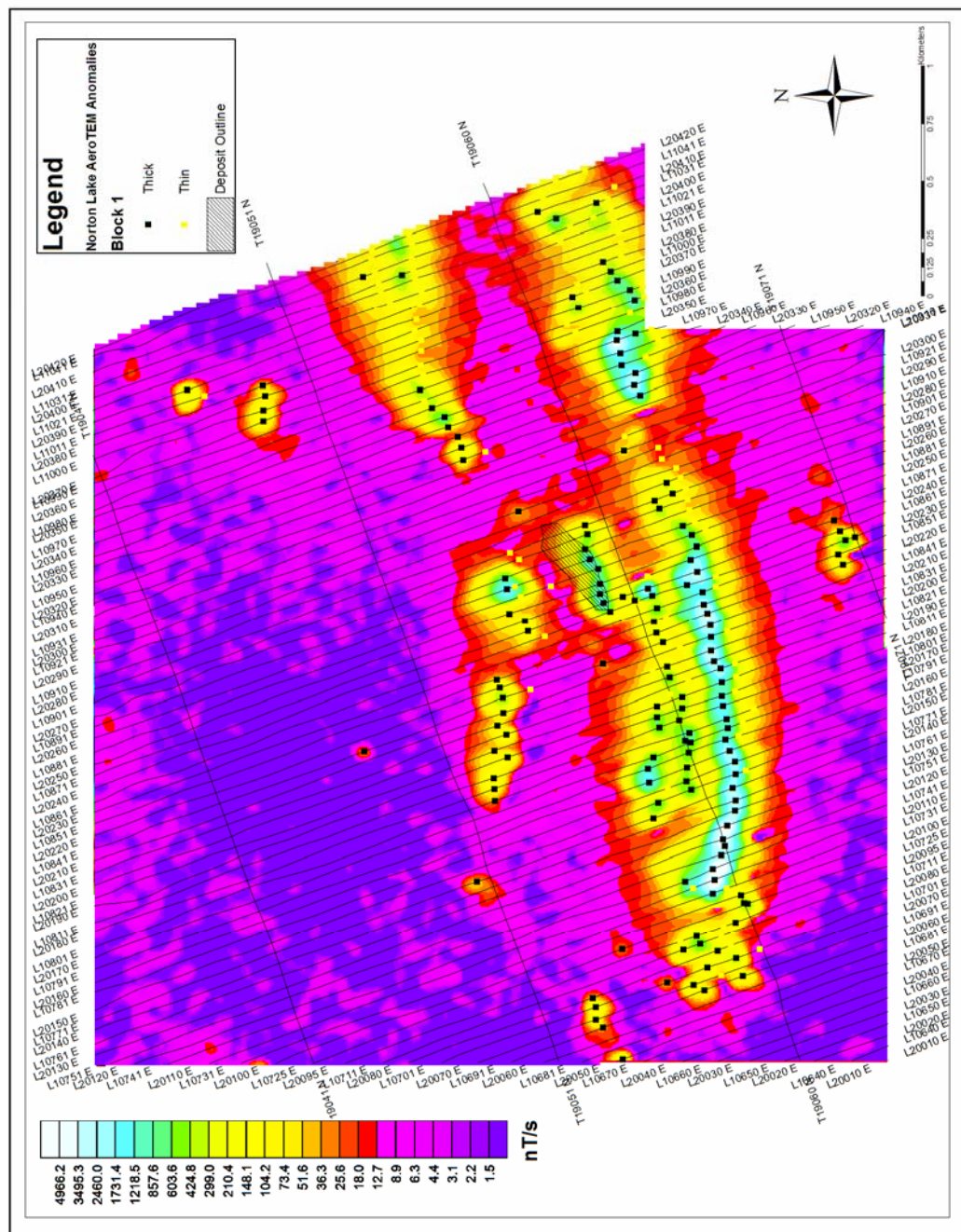


Figure 10-10. Second Offtime Z Channel of Block 1 of the Norton Lake AeroTEM survey. The deposit is outlined in black.

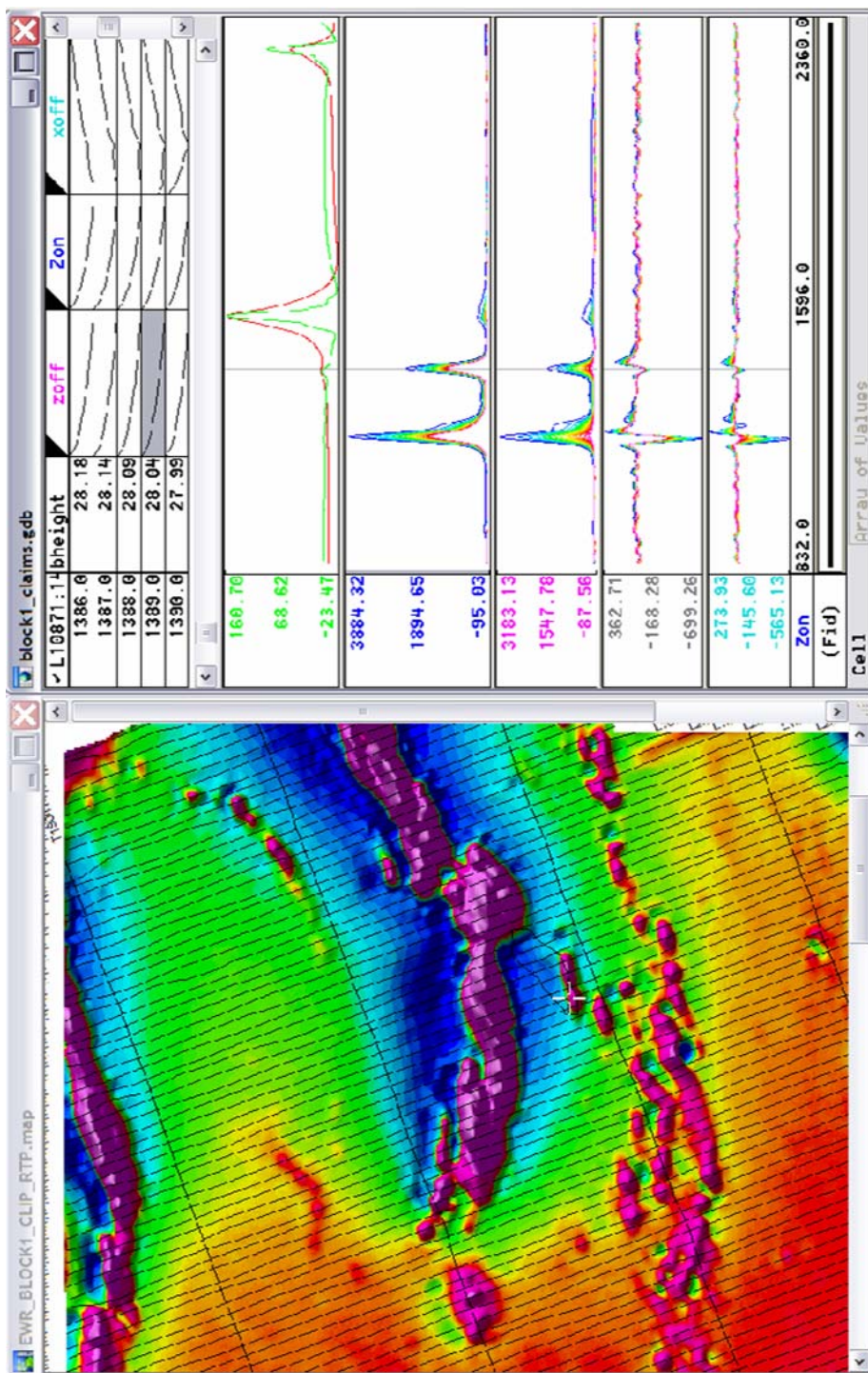


Figure 10-11. The profile windows from top to bottom are TMI-red and 1VD- green, Z-On response, Z-Off response, X-On response, and X-Off response.



Table 10-4. Anomalies selected from Block 1. All coordinates are in NAD83 UTM Zone 16N.

Block	Easting	Northing	Anomaly Type	Conductivity (S)	Tau (µs)
1	469094.6	5749385	Thick	9.815	313.283
1	469033.8	5749552	Thick	1.376	117.308
1	468871.3	5749995	Thick	1.049	102.443
1	468959	5750025	Thick	18.656	431.93
1	469066.6	5749714	Thick	0.726	85.23
1	469131.3	5749539	Thick	6.589	256.685
1	469172.9	5749413	Thick	35.467	595.541
1	469212.4	5749311	Thin	35.467	595.541
1	469272	5749478	Thin	27.091	520.493
1	469237.6	5749571	Thick	23.776	487.607
1	469210.7	5749645	Thick	15.985	399.818
1	469212.3	5749911	Thick	3.037	174.276
1	469414.1	5749365	Thick	26.022	510.116
1	469481.3	5749456	Thin	14.44	380.006
1	469458.9	5749516	Thick	20.268	450.198
1	469510.1	5749637	Thick	49.145	701.037
1	469564.8	5749517	Thick	29.514	543.272
1	469693.1	5749471	Thick	33.474	578.57
1	469818.9	5749420	Thick	64.673	804.196
1	469917.6	5749431	Thick	47.35	688.116
1	469786.1	5749775	Thick	18.465	429.706
1	469510.5	5750542	Thick	34.954	591.22
1	469917.1	5749712	Thin	77.325	879.344
1	469946.8	5749632	Thick	30.159	549.17
1	470032.7	5749419	Thick	41.524	644.392
1	470147	5749402	Thin	23.019	479.781
1	470130	5749461	Thick	38.995	624.461
1	470074	5749621	Thick	8.098	284.572
1	470001.9	5749799	Thick	61.093	781.622
1	469862.2	5750464	Thick	0.701	83.699
1	470160.2	5749617	Thick	18.292	427.694
1	470219.6	5749456	Thick	29.699	544.969
1	470263.3	5749339	Thin	9.32	305.294
1	470338.8	5749418	Thin	15.563	394.503
1	470318.5	5749477	Thick	18.094	425.375
1	470265.9	5749649	Thick	33.481	578.625
1	470228	5749759	Thick	26.014	510.038
1	469961.4	5750470	Thick	8.615	293.513
1	470080.9	5750468	Thick	42.628	652.899
1	470387.6	5749622	Thin	29.582	543.894
1	470438.5	5749481	Thick	14.03	374.567



Block	Easting	Northing	Anomaly Type	Conductivity (S)	Tau (µs)
1	470461.1	5749419	Thin	20.939	457.593
1	470518.7	5749524	Thick	23.776	487.603
1	470447	5749715	Thick	7.154	267.465
1	470427.6	5749778	Thin	11.84	344.096
1	470190.3	5750455	Thick	9.764	312.472
1	470077.3	5751033	Thick	5.045	224.61
1	470309.9	5750430	Thick	34.399	586.508
1	470348.5	5750309	Thin	34.399	586.508
1	470459.7	5749993	Thick	0.491	70.087
1	470554.9	5749731	Thick	5.36	231.519
1	470630.9	5749527	Thick	31.083	557.52
1	470941.1	5748969	Thick	28.744	536.131
1	470722.1	5749554	Thick	34.097	583.926
1	470664.7	5749720	Thin	26.963	519.261
1	470646.8	5749771	Thick	26.963	519.261
1	470390.3	5750458	Thick	8.318	288.41
1	470579.5	5750248	Thin	8.987	299.783
1	470689.7	5749963	Thick	68.01	824.68
1	470734.1	5749846	Thin	8.276	287.673
1	470759.8	5749779	Thick	22.738	476.839
1	470806.6	5749628	Thick	50.024	707.279
1	470844	5749502	Thin	42.731	653.688
1	471039.1	5748963	Thick	11.498	339.091
1	470917.9	5749612	Thick	70.546	839.915
1	470845.7	5749802	Thin	19.019	436.112
1	470767.2	5750008	Thick	84.804	920.892
1	470648.4	5750333	Thick	20.035	447.6
1	470754	5750353	Thin	9.901	314.661
1	470803.6	5750221	Thin	11.336	336.687
1	470879.3	5750015	Thick	100.238	1001.191
1	471023.7	5749607	Thick	78.583	886.471
1	471046.6	5749548	Thin	107.231	1035.525
1	471135.3	5749617	Thin	5.826	241.361
1	470965.6	5750072	Thick	101.736	1008.641
1	470837.4	5750421	Thick	19.112	437.178
1	470948.2	5750398	Thin	2.726	165.12
1	471065.8	5750072	Thick	30.298	550.439
1	471173.7	5749770	Thick	43.69	660.982
1	471206	5749690	Thick	27.05	520.099
1	471225.9	5749633	Thin	44.969	670.593
1	471317.6	5749675	Thin	24.648	496.472
1	471406.7	5749754	Thin	4.28	206.884



Block	Easting	Northing	Anomaly Type	Conductivity (S)	Tau (μs)
1	471454.4	5749899	Thin	8.161	285.683
1	471678.9	5749858	Thick	42.066	648.582
1	471405.1	5750610	Thick	11.308	336.279
1	471495.5	5750669	Thick	1.872	136.805
1	471764.7	5749914	Thick	52.778	726.482
1	471799.8	5749808	Thin	71.965	848.322
1	471920	5749782	Thin	6.115	247.277
1	471901.8	5749852	Thick	18.216	426.808
1	471873.3	5749935	Thick	31.113	557.79
1	471577.3	5750739	Thick	7.673	276.996
1	471656.6	5750791	Thick	15.016	387.51
1	471910.1	5750113	Thin	16.801	409.895
1	471994	5749876	Thin	20.978	458.018
1	472114.5	5749821	Thin	19.141	437.508
1	472095.5	5749876	Thick	39.168	625.846
1	472016.4	5750101	Thick	15.121	388.855
1	471764.4	5750787	Thin	0.57	75.479
1	471520.8	5751473	Thick	3.215	179.295
1	471630.3	5751466	Thick	3.885	197.094
1	471873.1	5750785	Thin	8.39	289.658
1	472122.4	5750106	Thin	5.34	231.086
1	472176.3	5749959	Thick	39.707	630.132
1	472303.2	5749916	Thin	1.855	136.193
1	471966.4	5750808	Thin	4.327	208.026
1	471629.6	5751729	Thin	2.177	147.551
1	472036.5	5750922	Thin	3.122	176.701
1	472087	5750783	Thin	1.708	130.709
1	472306.6	5750180	Thin	1.059	102.911
1	472394.2	5749947	Thin	75.152	866.9
1	472492.3	5749973	Thin	3.907	197.658
1	472474.7	5750023	Thick	11.329	336.584
1	472408.3	5750199	Thick	61.093	781.618
1	472182.1	5750819	Thin	0.944	97.177
1	472162.6	5750870	Thick	3.064	175.041
1	472123	5750973	Thin	2.055	143.347
1	472233.5	5751003	Thin	3.003	173.286
1	472293.3	5750826	Thin	9.91	314.809
1	472494.3	5750254	Thin	470.189	2168.384
1	468731.5	5749908	Thick	8.473	291.085
1	469099	5749480	Thin	11.729	342.477
1	469056	5749599	Thick	6.126	247.51
1	468903.9	5750025	Thick	1.476	121.482



Block	Easting	Northing	Anomaly Type	Conductivity (S)	Tau (μs)
1	468997.8	5750039	Thick	21.258	461.066
1	469206.7	5749496	Thick	74.263	861.761
1	469229.2	5749436	Thin	52.046	721.429
1	469332	5749416	Thick	9.841	313.702
1	469312.2	5749469	Thin	9.841	313.702
1	469270.1	5749587	Thick	13.824	371.805
1	469246.1	5749656	Thin	2.388	154.528
1	469451	5749392	Thick	34	583.091
1	469517.9	5749507	Thick	34.248	585.218
1	469481.1	5749602	Thin	23.043	480.026
1	469626.4	5749479	Thick	29.282	541.126
1	469754.7	5749453	Thick	42.684	653.332
1	469863.9	5749416	Thick	45.164	672.04
1	469854.3	5749754	Thick	47.353	688.138
1	469911.2	5749610	Thick	9.374	306.164
1	469977.7	5749417	Thick	34.603	588.24
1	469994.7	5749372	Thin	128.099	1131.809
1	470081.4	5749441	Thick	43.36	658.483
1	470006.6	5749627	Thick	7.354	271.186
1	469942.6	5749792	Thick	38.35	619.275
1	470052.7	5749774	Thick	70.71	840.893
1	470118	5749613	Thick	16.277	403.451
1	470181.2	5749449	Thick	19.451	441.036
1	470203.7	5749385	Thin	286.248	1691.886
1	470277.3	5749471	Thick	21.469	463.344
1	470213.1	5749663	Thick	78.538	886.216
1	470182.6	5749747	Thick	16.696	408.613
1	469914.6	5750466	Thick	9.493	308.1
1	470051.9	5750411	Thick	3.189	178.58
1	470274.4	5749760	Thick	8.617	293.555
1	470314.8	5749650	Thick	28.082	529.922
1	470378.1	5749478	Thick	11.633	341.078
1	470402.2	5749414	Thin	15.276	390.842
1	470470.9	5749510	Thick	32.312	568.436
1	470400	5749703	Thick	16.613	407.593
1	470152.6	5750415	Thick	2.691	164.051
1	470246.4	5750427	Thick	1.536	123.935
1	470533	5749659	Thin	56.553	752.016
1	470578.5	5749524	Thick	56.553	752.016
1	470603	5749453	Thin	16.442	405.484
1	470895.1	5748949	Thick	45.194	672.263
1	470681.7	5749539	Thick	21.02	458.475



Block	Easting	Northing	Anomaly Type	Conductivity (S)	Tau (µs)
1	470594.7	5749761	Thick	4.711	217.038
1	470354.2	5750443	Thick	13.643	369.366
1	470704.6	5749759	Thick	56.936	754.558
1	470776.4	5749560	Thick	28.272	531.715
1	470798.5	5749502	Thin	28.035	529.477
1	470999.9	5748939	Thick	31.11	557.768
1	471086.6	5748989	Thick	0.986	99.282
1	470864.9	5749583	Thick	30.873	555.632
1	470791.9	5749799	Thick	37.111	609.185
1	470754.9	5749909	Thick	25.625	506.207
1	470727.9	5749991	Thick	88.046	938.327
1	470602.6	5750322	Thick	1.633	127.778
1	470680	5750401	Thick	1.346	116.036
1	470813	5750007	Thick	79.571	892.027
1	470973.8	5749587	Thick	84.137	917.263
1	471080.4	5749595	Thin	106.219	1030.626
1	471063.4	5749646	Thick	98.493	992.439
1	470919.6	5750051	Thick	99.512	997.557
1	470799.6	5750379	Thin	12.468	353.106
1	470788.3	5750411	Thick	12.468	353.106
1	470919.2	5750359	Thin	3.568	188.902
1	471027.6	5750061	Thick	62.371	789.752
1	471138.3	5749749	Thick	80.653	898.072
1	471178.9	5749625	Thin	4.769	218.37
1	471275.2	5749657	Thin	6.143	247.844
1	471253	5749718	Thick	25.838	508.307
1	471126.9	5750362	Thick	1.463	120.948
1	471355.7	5749737	Thin	188.375	1372.498
1	471392.9	5749904	Thick	5.651	237.724
1	471633.6	5749832	Thick	56.119	749.128
1	471388.9	5750506	Thin	1.58	125.688
1	471352	5750603	Thick	1.58	125.688
1	471454.2	5750627	Thick	0.508	71.274
1	471730.6	5749852	Thick	55.197	742.947
1	471876.4	5749753	Thin	42.689	653.371
1	471817.5	5749919	Thick	38.922	623.876
1	471538.6	5750685	Thick	4.127	203.14
1	471610.8	5750773	Thin	0.622	78.838
1	471912	5749932	Thick	42.774	654.021
1	472064.9	5749817	Thin	25.468	504.659
1	472051.8	5749856	Thick	37.754	614.446
1	471941.8	5750150	Thin	8.968	299.464



Block	Easting	Northing	Anomaly Type	Conductivity (S)	Tau (µs)
1	471723.1	5750777	Thin	8.331	288.638
1	471567.2	5751474	Thick	9.01	300.171
1	471826.7	5750785	Thin	2.444	156.338
1	472065.4	5750127	Thick	7.99	282.673
1	472086.4	5750068	Thin	7.99	282.673
1	472138.8	5749931	Thick	50.329	709.429
1	472246.5	5749914	Thin	2.14	146.285
1	472218.8	5749994	Thick	11.865	344.459
1	471915.4	5750813	Thin	5.457	233.603
1	471674.1	5751476	Thick	1.971	140.378
1	471656.1	5751804	Thick	6.797	260.712
1	472028.1	5750794	Thin	1.099	104.81
1	472344.5	5749926	Thin	3.065	175.077
1	472443.2	5749959	Thin	8.637	293.896
1	472411	5750035	Thin	13.813	371.658
1	472370.1	5750138	Thin	25.819	508.122
1	472143.5	5750812	Thin	2.639	162.46
1	472086.2	5750961	Thin	2.403	155.012
1	472152.4	5751039	Thick	1.347	116.077
1	472172.7	5750987	Thin	1.347	116.077
1	472236.2	5750827	Thin	1.154	107.443
1	472435.9	5750279	Thick	20.252	450.026
1	472545.1	5749945	Thin	7.234	268.954
1	472615.7	5750072	Thin	0.642	80.107
1	472570.5	5750201	Thin	9.964	315.661
1	472335.9	5750838	Thin	5.633	237.336
1	472270.2	5750999	Thin	2.111	145.286
1	470740.3	5749856	Thick	15.814	397.671
1	470326.4	5749701	Thin	28.223	531.255
1	470126.1	5749637	Thick	28.237	531.388
1	469664.6	5749463	Thick	26.387	513.68
1	469481	5749407	Thin	28.649	535.25
1	469417.2	5749381	Thick	29.743	545.375
1	471014.6	5748895	Thick	6.724	259.297

The results for Block 2 are displayed in figures 10-12 to 10-14. These show the total magnetic intensity, first vertical derivative with identified conductors and second Z-off channel with identified conductors. This area contains more magnetic mineral content than Block 1. Several folds are identified from the magnetics and are listed below. These features are considered to be priority exploration targets (coordinates are in NAD83 UTM Zone 16N):



1. 482484 mE, 5755340 mN
2. 486963 mE, 5756500 mN
3. 489104 mE, 5757300 mN

The strike of the major structures ranges from 050°-080° in Block 2. A prominent NW trending fault cuts across all features in the western portion of the block. Several additional magnetic/conductive anomalies exist within the survey blocks. These should be investigated further as potential exploration targets. Table 10-5 presents selected anomalies from Block 2.

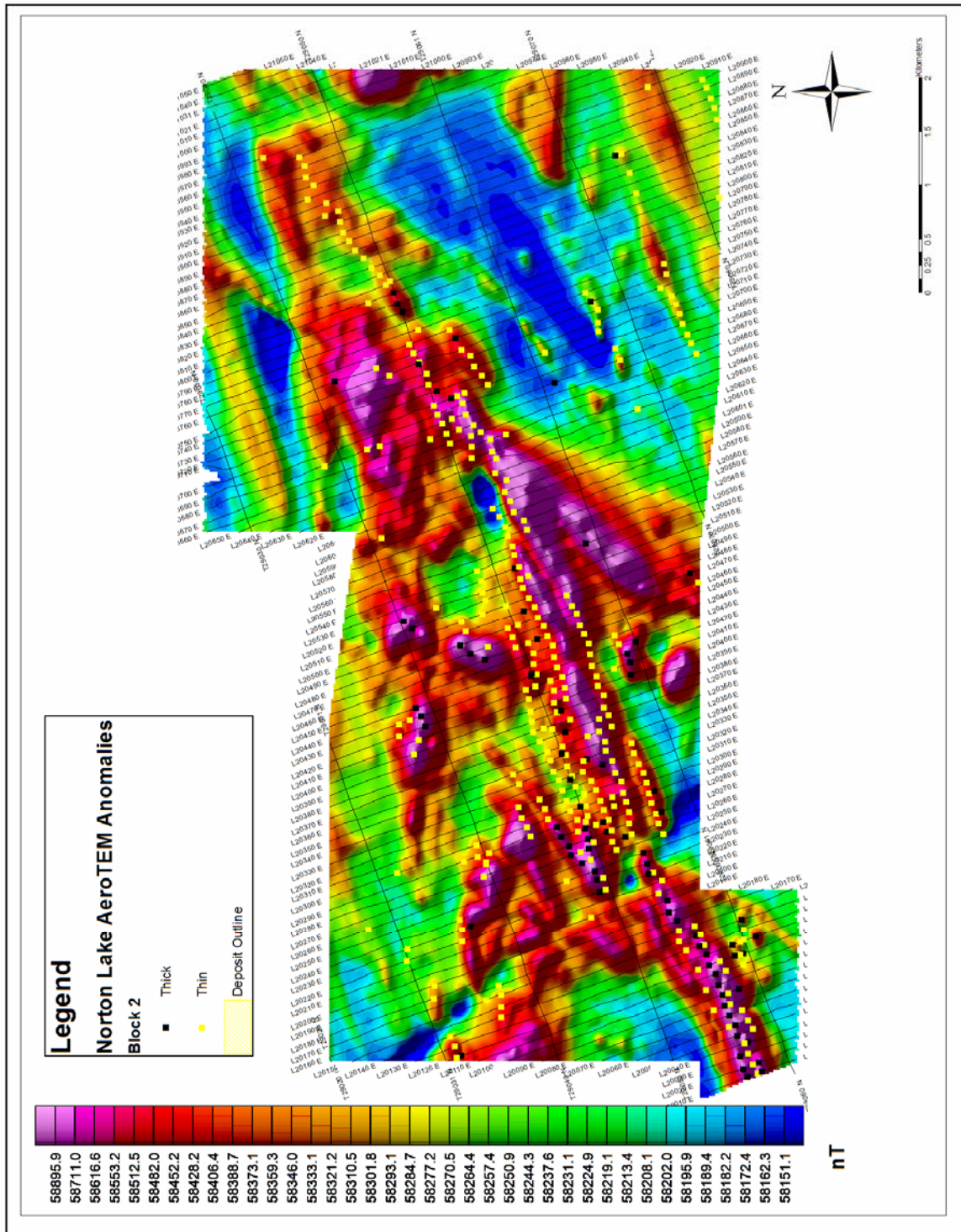


Figure 10-12. Total Magnetic Intensity of Block 2 of the Norton Lake AeroTEM survey.

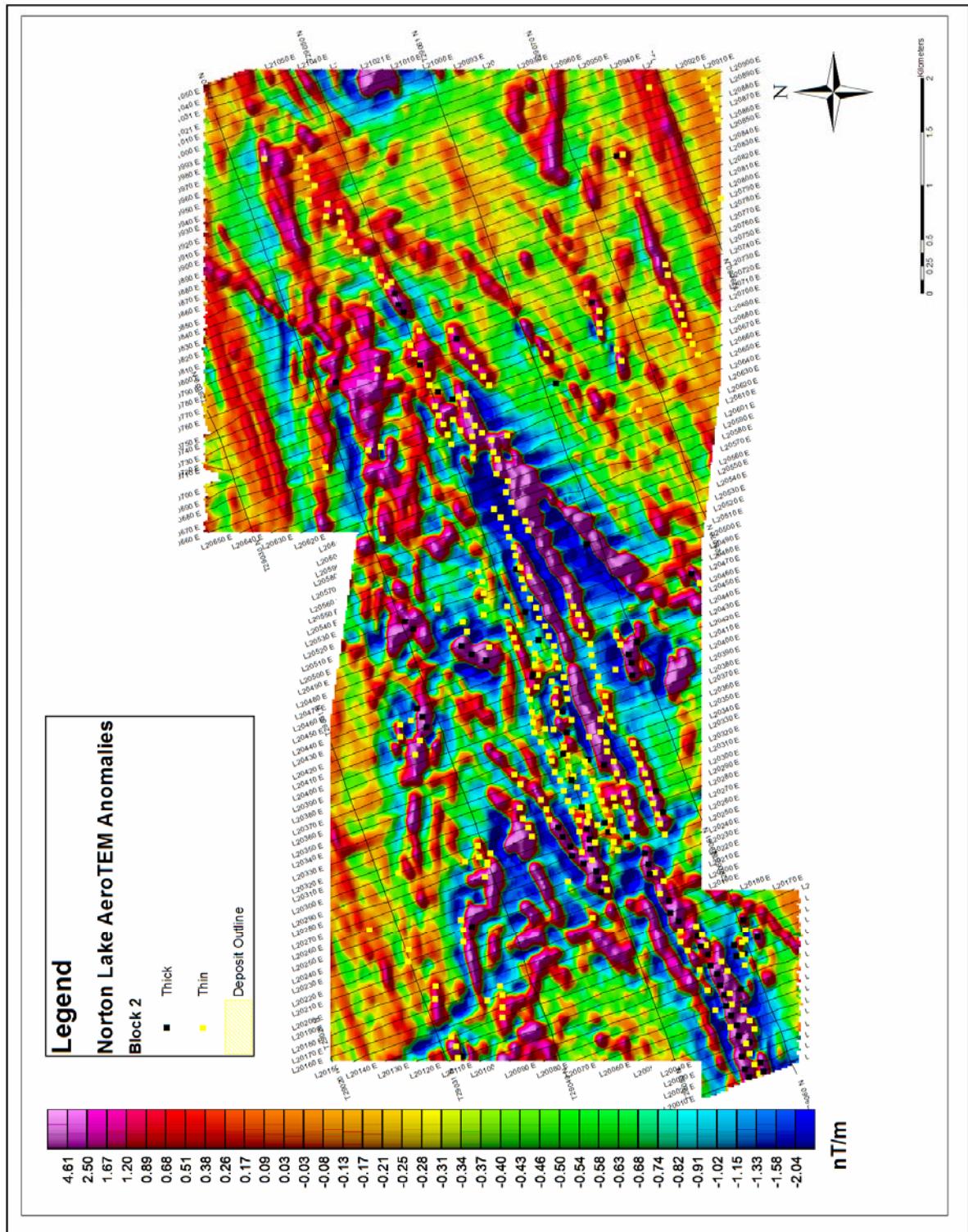


Figure 10-13. First Vertical Derivative of Block 2 of the Norton Lake AeroTEM survey.

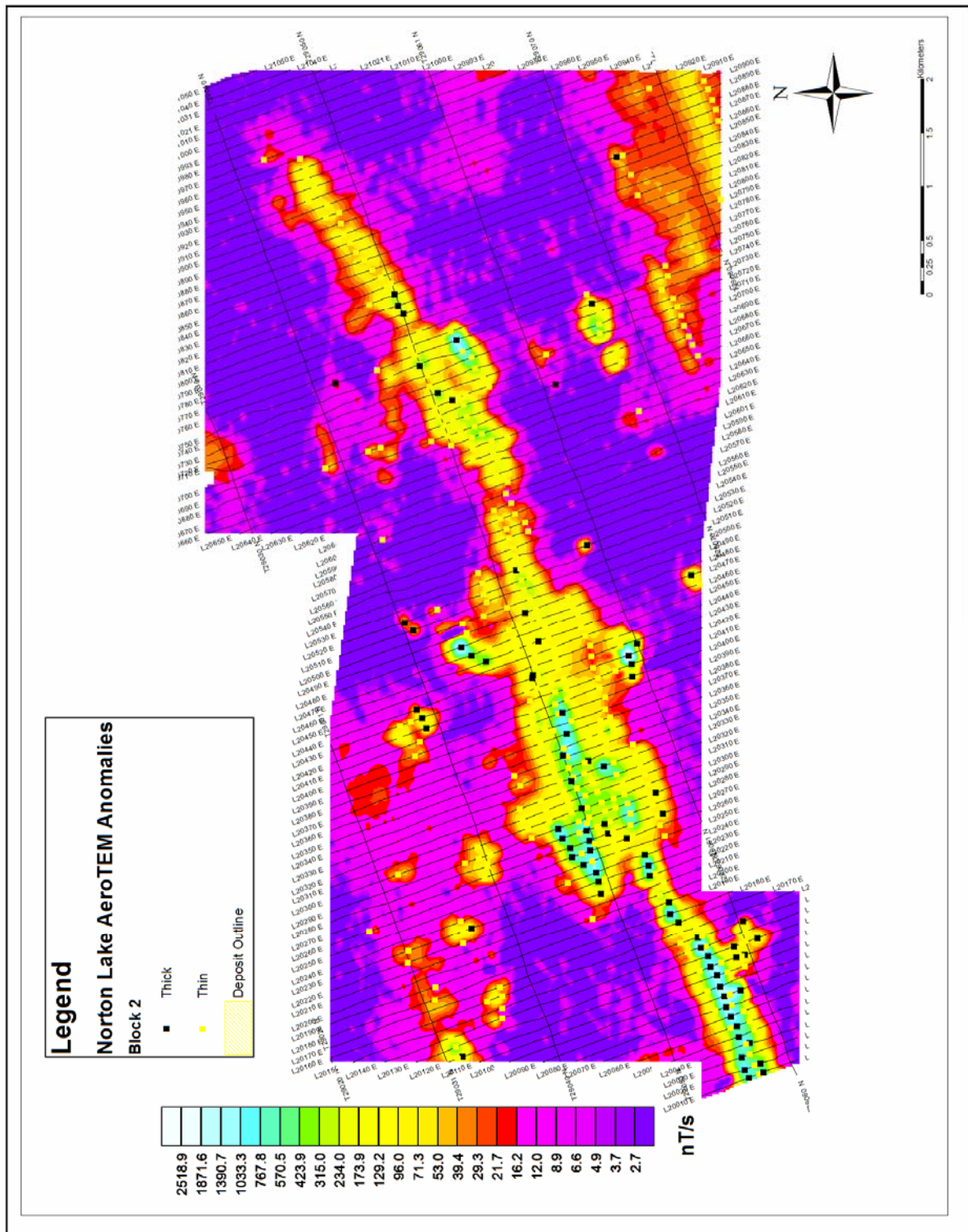


Figure 10-14. Second Offtime Z Channel of Block 2 of the Norton Lake AeroTEM survey.



Table 10-5. Anomalies selected from Block 2.

Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	480582.9	5752953	Thick	36.175	601.457
2	480618.6	5752860	Thin	36.769	606.376
2	480634.8	5752820	Thick	36.769	606.376
2	480721.4	5752845	Thick	32.778	572.523
2	480700.8	5752901	Thin	32.778	572.523
2	480658.7	5752995	Thick	53.841	733.762
2	480775.3	5753021	Thick	47.174	686.834
2	480801.7	5752947	Thin	109.313	1045.527
2	480907.8	5752946	Thick	36.513	604.26
2	480898.5	5752980	Thin	40.081	633.094
2	480968.7	5753050	Thick	61.404	783.605
2	481030.8	5752901	Thin	16.034	400.422
2	481110.9	5752949	Thin	31.333	559.762
2	481069.3	5753067	Thick	65.139	807.085
2	481048.4	5753129	Thin	137.745	1173.647
2	481158.5	5753122	Thick	55.144	742.588
2	481206.9	5753002	Thin	59.517	771.472
2	481260.8	5753116	Thin	64.15	800.935
2	481244.5	5753167	Thick	55.84	747.26
2	481208.5	5753267	Thin	32.079	566.383
2	481346.6	5753182	Thick	43.588	660.214
2	481365	5753131	Thin	43.588	660.214
2	481404.1	5753031	Thick	57.376	757.467
2	481438.1	5753223	Thick	40.619	637.33
2	481393.7	5753341	Thin	16.814	410.045
2	481540.2	5753251	Thick	58.463	764.614
2	481572.1	5753153	Thin	29.257	540.9
2	481628.5	5752990	Thin	0.641	80.051
2	481732.3	5752992	Thick	16.047	400.59
2	481724	5753021	Thin	16.047	400.59
2	481707.8	5753073	Thick	27.426	523.698
2	481659.4	5753209	Thin	57.434	757.85
2	481621.3	5753313	Thick	44.207	664.88
2	481579.5	5753411	Thin	21.03	458.585
2	480778.7	5755621	Thick	16.051	400.636
2	480763.5	5755662	Thin	16.051	400.636
2	480869.3	5755679	Thin	60.772	779.564
2	481721.1	5753336	Thick	46.205	679.743
2	481810.5	5753093	Thick	16.293	403.647
2	481836.9	5753022	Thin	13.897	372.782
2	481892.4	5752874	Thick	61.01	781.088



Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	481957	5752989	Thin	95.858	979.069
2	481813.9	5753355	Thin	65.054	806.559
2	481799.7	5753399	Thick	47.328	687.954
2	481760	5753524	Thin	7.839	279.978
2	481140.7	5755247	Thin	3.483	186.622
2	480958.3	5755728	Thin	106.419	1031.597
2	481233	5755248	Thin	0.786	88.637
2	481844.1	5753592	Thin	3.925	198.124
2	481896	5753431	Thick	109.547	1046.646
2	481910.2	5753389	Thin	109.547	1046.646
2	482049.8	5753009	Thick	9.75	312.248
2	481992	5753445	Thin	13.321	364.985
2	481943.9	5753595	Thin	20.364	451.265
2	481348.2	5755247	Thin	26.266	512.508
2	481294.7	5755390	Thin	0.228	47.698
2	481430.2	5755269	Thin	11.954	345.742
2	482041.3	5753607	Thick	47.454	688.867
2	482121.9	5753684	Thick	51.809	719.782
2	481310.4	5755876	Thin	8.818	296.951
2	481433.1	5755873	Thin	0.056	23.697
2	482233.2	5753698	Thick	31.174	558.34
2	482297.6	5753783	Thin	22.2	471.169
2	482071.7	5754408	Thin	0.449	67.006
2	482417.5	5753749	Thin	2.109	145.23
2	482491.8	5753830	Thin	3.24	180.011
2	482474.9	5753878	Thick	31.484	561.104
2	482330	5754276	Thin	8.092	284.462
2	482308.2	5754333	Thick	8.092	284.462
2	481842.5	5755612	Thin	0.01	9.483
2	481660.9	5756128	Thin	0.732	85.535
2	481771	5756121	Thin	1.334	115.489
2	481956.7	5755613	Thin	5.293	230.065
2	481985	5755532	Thick	5.293	230.065
2	482420	5754354	Thick	12.254	350.063
2	482442.7	5754295	Thin	12.254	350.063
2	482574.8	5753890	Thick	60.685	779.006
2	482671.3	5753924	Thick	22.908	478.62
2	482506.6	5754378	Thick	36.443	603.678
2	482410.5	5754640	Thin	0.01	9.356
2	482050.4	5755633	Thin	1.599	126.433
2	482579.9	5754492	Thick	46.692	683.315
2	482609.2	5754414	Thin	46.692	683.315



Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	482699	5754172	Thin	4.889	221.109
2	482845.1	5753736	Thin	0.11	33.121
2	482947.2	5753780	Thin	0.097	31.218
2	482845.5	5754034	Thin	4.556	213.441
2	482824.6	5754090	Thick	4.556	213.441
2	482777.5	5754215	Thin	4.556	213.441
2	482710.1	5754434	Thick	46.831	684.332
2	482682.7	5754509	Thin	46.831	684.332
2	482648.4	5754598	Thick	40.668	637.716
2	481956.1	5756488	Thin	0.01	8.471
2	482457.4	5755414	Thin	17.011	412.443
2	482737.1	5754617	Thick	34.013	583.206
2	482799.7	5754440	Thick	46.539	682.192
2	482869.9	5754261	Thick	6.858	261.87
2	482886.5	5754219	Thin	6.858	261.87
2	482945.8	5754057	Thin	8.247	287.179
2	483036.6	5753803	Thin	1.814	134.687
2	483054.2	5753755	Thick	1.814	134.687
2	483136.2	5753847	Thin	1.303	114.167
2	483056.8	5754055	Thin	22.477	474.104
2	482981.9	5754246	Thin	6.34	251.785
2	482961.4	5754299	Thick	6.34	251.785
2	482936.1	5754363	Thin	6.34	251.785
2	482899.1	5754467	Thick	50.617	711.458
2	482876.8	5754533	Thin	34.752	589.508
2	482826.5	5754689	Thick	49.017	700.125
2	482566.3	5755388	Thin	7.29	270.007
2	482593.5	5755599	Thin	0.01	9.381
2	482637.7	5755469	Thin	1.484	121.817
2	482674.3	5755360	Thin	2.128	145.882
2	482831.9	5754973	Thin	0.043	20.777
2	482916.3	5754730	Thick	41.053	640.723
2	482983.2	5754539	Thin	7.705	277.573
2	483018.4	5754442	Thin	7.705	277.573
2	483073.8	5754292	Thin	7.705	277.573
2	483108.8	5754197	Thin	18.272	427.455
2	483149.7	5754084	Thin	14.348	378.785
2	483227	5753874	Thin	2.809	167.612
2	483248.3	5753821	Thick	2.809	167.612
2	483330.5	5753895	Thin	1.432	119.65
2	483232.9	5754114	Thin	11.958	345.807
2	483196.5	5754212	Thin	11.958	345.807



Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	483163.1	5754327	Thin	14.527	381.146
2	483107.7	5754462	Thin	21.981	468.843
2	483066.9	5754603	Thin	17.071	413.172
2	482988.1	5754811	Thin	7.466	273.24
2	482916.3	5755008	Thin	6.102	247.028
2	482747.9	5755476	Thin	2.098	144.856
2	482486	5756218	Thin	4.409	209.967
2	482996.8	5755058	Thin	18.698	432.416
2	483079.7	5754843	Thin	11.264	335.618
2	483159.8	5754641	Thin	11.264	335.618
2	483220.2	5754476	Thin	19.068	436.667
2	483262.4	5754362	Thin	7.947	281.898
2	483339.7	5754131	Thin	7.043	265.388
2	483416.7	5753923	Thin	2.021	142.158
2	483501.2	5753969	Thin	7.869	280.514
2	483420.8	5754184	Thin	22.548	474.845
2	483347	5754410	Thin	19.916	446.278
2	483290.3	5754557	Thin	19.916	446.278
2	483253.4	5754677	Thin	11.259	335.538
2	483173.8	5754891	Thin	19.417	440.646
2	483097.3	5755088	Thin	0.898	94.774
2	483348.4	5754713	Thin	30.731	554.355
2	483390.5	5754586	Thin	30.731	554.355
2	483426.9	5754485	Thin	17.983	424.07
2	483494.7	5754304	Thick	38.451	620.089
2	483529.1	5754214	Thin	10.517	324.293
2	483604	5754013	Thin	10.227	319.794
2	483696.4	5754034	Thin	10.148	318.557
2	483624	5754273	Thin	10.148	318.557
2	483546.6	5754451	Thick	36.381	603.168
2	483532.6	5754484	Thin	36.381	603.168
2	483478.9	5754632	Thin	25.28	502.791
2	483428.2	5754763	Thin	11.305	336.235
2	483319.3	5755081	Thin	0.363	60.228
2	483408.5	5755136	Thin	0.108	32.93
2	483534.9	5754791	Thin	8.481	291.219
2	483586.2	5754644	Thin	25.549	505.457
2	483710.8	5754283	Thin	19.821	445.211
2	483849	5754216	Thin	8.341	288.805
2	483801.8	5754336	Thin	8.341	288.805
2	483761.6	5754443	Thin	36.011	600.092
2	483666.5	5754676	Thin	36.81	606.71



Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	483616.6	5754817	Thin	6.032	245.606
2	483711.7	5754889	Thin	11.228	335.088
2	483801.2	5754648	Thick	53.989	734.77
2	483920.5	5754339	Thin	13.227	363.694
2	483955.1	5754245	Thin	0.086	29.282
2	484029.4	5754289	Thin	0.619	78.678
2	483914	5754607	Thin	53.629	732.316
2	483833.9	5754852	Thin	28.672	535.467
2	483798.4	5754954	Thin	12.274	350.341
2	483892	5754966	Thin	15.75	396.864
2	483981.3	5754728	Thin	45.482	674.4
2	483996	5754690	Thick	45.482	674.4
2	484140	5754290	Thin	4.193	204.779
2	484330.8	5754039	Thick	5.698	238.714
2	484228.9	5754348	Thin	5.486	234.222
2	484112	5754647	Thin	35.077	592.258
2	484073.7	5754756	Thin	13.961	373.642
2	483990.4	5754977	Thin	14.732	383.824
2	483593.2	5756061	Thin	0.484	69.601
2	483728.3	5756015	Thin	2.318	152.245
2	484103.9	5754991	Thin	0.093	30.455
2	484183.3	5754757	Thin	12.82	358.053
2	484214.6	5754655	Thin	21.768	466.562
2	484321.6	5754358	Thin	0.896	94.655
2	484386.5	5754194	Thin	0.896	94.655
2	484447.4	5754046	Thick	44.091	664.01
2	484529.1	5754075	Thick	43.529	659.767
2	484415.5	5754403	Thin	0.493	70.242
2	484314.5	5754676	Thin	8.574	292.822
2	484273.8	5754788	Thin	8.574	292.822
2	484222.2	5754932	Thin	47.774	691.186
2	484188.6	5755019	Thin	47.774	691.186
2	483849.9	5755955	Thick	3.805	195.066
2	483759.2	5756201	Thin	12.039	346.974
2	483872.4	5756202	Thin	1.939	139.238
2	483909.3	5756100	Thin	3.592	189.516
2	483945.9	5755994	Thick	5.086	225.528
2	484317.3	5754968	Thick	31.173	558.328
2	484334.4	5754921	Thin	35.286	594.022
2	484403.3	5754727	Thin	30.554	552.755
2	484519.5	5754421	Thin	0.883	93.974
2	484617.6	5754150	Thin	37.896	615.6



Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	484697.9	5754188	Thin	31.682	562.87
2	484620.5	5754431	Thin	0.925	96.173
2	484501.3	5754754	Thin	54.37	737.362
2	484428.7	5754949	Thin	30.265	550.141
2	484020	5756046	Thick	2.691	164.043
2	484534.9	5754949	Thin	73.078	854.858
2	484602.9	5754766	Thin	15.072	388.227
2	484713.3	5754477	Thin	2.283	151.1
2	485200	5753410	Thin	2.078	144.155
2	484798	5754516	Thin	5.559	235.77
2	484695.7	5754818	Thin	18.742	432.924
2	484660.8	5754915	Thick	16.044	400.551
2	484627.8	5754994	Thin	16.044	400.551
2	484586.2	5755112	Thin	34.713	589.179
2	484469.7	5755398	Thick	39.799	630.866
2	484528.8	5755534	Thick	51.291	716.179
2	484591.3	5755371	Thin	94.519	972.211
2	484685.7	5755143	Thin	21.321	461.743
2	484792.2	5754853	Thin	18.81	433.71
2	484907.3	5754545	Thin	8.164	285.733
2	485284.9	5753489	Thick	23.753	487.371
2	484978.8	5754590	Thin	16.718	408.878
2	484868.8	5754907	Thin	22.178	470.939
2	484799.3	5755094	Thin	68.36	826.799
2	484769	5755187	Thin	68.36	826.799
2	484604.6	5755632	Thick	58.52	764.983
2	484736.8	5755579	Thin	82.328	907.35
2	484930.6	5755036	Thick	82.328	907.35
2	484969.8	5754934	Thin	14.477	380.481
2	485081.9	5754637	Thin	2.072	143.952
2	485052.7	5754994	Thin	8.341	288.813
2	484978.7	5755205	Thin	5.918	243.269
2	484899.2	5755420	Thin	4.975	223.043
2	484830.4	5755618	Thin	2.948	171.707
2	484764.3	5756075	Thick	7.875	280.627
2	485032.9	5755394	Thin	0.735	85.726
2	485150.5	5755045	Thin	35.81	598.411
2	485259.4	5754997	Thin	7.682	277.16
2	485232.3	5755071	Thin	8.463	290.915
2	485103.6	5755424	Thin	7.309	270.346
2	484962.9	5755855	Thin	1.061	103.019
2	484833.3	5756156	Thick	2.951	171.789



Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	485210.7	5755436	Thin	2.532	159.117
2	485328.1	5755121	Thick	5.085	225.51
2	485344.3	5755080	Thin	5.085	225.51
2	485560.9	5754459	Thick	7.269	269.619
2	485455.5	5755125	Thin	2.261	150.35
2	485306.6	5755475	Thin	1.138	106.673
2	485532	5755141	Thin	4.406	209.902
2	485693.6	5755010	Thin	1.882	137.202
2	485631.8	5755190	Thin	1.882	137.202
2	485711.4	5755212	Thin	1.289	113.518
2	485777.5	5755035	Thin	0.078	27.93
2	485853.3	5755132	Thin	11.006	331.747
2	485807.5	5755265	Thin	4.022	200.538
2	485885.1	5755328	Thin	0.292	54.02
2	485956.6	5755164	Thin	0.292	54.02
2	486043.6	5755216	Thin	0.01	5.088
2	485614.1	5756364	Thin	7.782	278.957
2	486148.7	5755197	Thin	25.162	501.622
2	486219.4	5755308	Thin	34.028	583.338
2	486353.4	5755295	Thin	160.832	1268.195
2	486810	5753980	Thin	0.17	41.6
2	486419.5	5755333	Thin	58.395	764.167
2	486355.8	5755523	Thin	13.842	372.045
2	486464.6	5755526	Thin	4.378	209.237
2	486533.2	5755348	Thin	106.143	1030.257
2	486575.5	5755204	Thin	9.666	310.904
2	487325.8	5753429	Thin	0.011	10.459
2	486598.5	5755440	Thin	58.234	763.109
2	486565.8	5755528	Thin	55.767	746.774
2	486492.6	5755722	Thin	55.767	746.774
2	486529.3	5755911	Thin	2.07	143.882
2	486580.9	5755759	Thin	2.07	143.882
2	486619.3	5755640	Thin	8.468	291.004
2	486665.7	5755509	Thin	8.468	291.004
2	487426.7	5753482	Thin	0.01	10.166
2	487505.6	5753516	Thin	14.281	377.898
2	487270.7	5754142	Thin	3.928	198.197
2	487056.5	5754753	Thick	0.189	43.442
2	486760.4	5755579	Thin	58.476	764.695
2	486720.5	5755708	Thin	58.476	764.695
2	486678.7	5755800	Thin	52.352	723.547
2	486470.3	5756382	Thin	20.965	457.879



Block	Easting	Northing	Designation	Conductivity (S)	Tau (μs)
2	486437.6	5756498	Thin	20.965	457.879
2	486281.1	5756894	Thin	20.965	457.879
2	486760.9	5755843	Thin	33.186	576.069
2	486864	5755605	Thin	42.884	654.86
2	487376.3	5754186	Thin	7.621	276.054
2	487603.6	5753557	Thin	14.707	383.503
2	487698.2	5753586	Thin	86.96	932.522
2	487038.7	5755375	Thin	363.698	1907.086
2	486963	5755589	Thin	22.62	475.6
2	486931	5755660	Thin	22.62	475.6
2	486909.4	5755716	Thick	30.415	551.498
2	486845.8	5755875	Thin	31.335	559.778
2	486976.7	5755849	Thick	38.353	619.298
2	487123	5755427	Thin	43.475	659.353
2	487336.9	5754838	Thin	44.66	668.26
2	487531	5754340	Thin	45.915	677.602
2	487788.2	5753621	Thin	19.913	446.242
2	487871.4	5753658	Thin	63.773	798.58
2	487615.5	5754346	Thin	58.104	762.257
2	487209.2	5755501	Thin	51.706	719.066
2	487040	5755929	Thin	123.295	1110.385
2	487140.3	5755941	Thin	35.92	599.333
2	487306.5	5755532	Thin	36.608	605.044
2	487732.5	5754347	Thin	30.72	554.256
2	487948.4	5753767	Thin	47.503	689.224
2	488073.5	5753709	Thin	44.928	670.287
2	487819.4	5754415	Thick	63.088	794.277
2	487366.5	5755621	Thin	37.098	609.079
2	487246.4	5756011	Thin	31.46	560.893
2	487125.4	5756291	Thin	23.995	489.848
2	487068.2	5756799	Thick	1.251	111.845
2	487191.3	5756415	Thin	0.417	64.55
2	487328.7	5756067	Thin	17.892	422.989
2	487471	5755676	Thick	33.47	578.534
2	487905	5754466	Thin	10.64	326.189
2	488172.5	5753733	Thin	10.64	326.189
2	487549.3	5755729	Thin	15.284	390.951
2	487414.5	5756105	Thin	2.805	167.487
2	487551.6	5756024	Thin	113.028	1063.145
2	487716.1	5756166	Thick	50.344	709.533
2	488786.1	5753219	Thin	8.529	292.048
2	487798.7	5756218	Thick	67.817	823.51



Block	Easting	Northing	Designation	Conductivity (S)	Tau (µs)
2	487809.7	5756487	Thin	53.815	733.587
2	487899.6	5756249	Thick	85.834	926.465
2	488823.5	5753991	Thin	15.644	395.526
2	487975.1	5756324	Thin	130.217	1141.127
2	488063.2	5756381	Thin	298.494	1727.697
2	489016.3	5754048	Thin	72.52	851.11
2	488132.6	5756459	Thin	140.209	1184.097
2	488218.8	5756529	Thin	95.042	974.895
2	489511.9	5753239	Thin	196.798	1402.846
2	489195.8	5754127	Thin	82.6	908.844
2	489179.2	5754188	Thick	82.6	908.844
2	488294.8	5756610	Thin	91.009	953.986
2	488383.8	5756665	Thin	104.62	1022.837
2	489623	5753264	Thin	64.92	805.732
2	489710.8	5753295	Thin	0.439	66.234
2	488462.6	5756721	Thin	7.499	273.836
2	488565	5756750	Thin	1.566	125.127
2	489813.6	5753332	Thin	1.566	125.127
2	489884.2	5753374	Thin	0.433	65.834
2	488663.4	5756768	Thin	8.521	291.902
2	488619.7	5756891	Thin	12.009	346.538
2	488733.9	5756877	Thin	10.06	317.18
2	489819.7	5753884	Thin	1.631	127.711
2	488770.2	5757051	Thin	13.454	366.801
2	488901.8	5756996	Thin	39.757	630.533
2	488978.6	5757070	Thin	45.839	677.047
2	489080.8	5757082	Thin	50.083	707.696
2	489164.3	5757130	Thin	1.309	114.419
2	489154.5	5757464	Thin	0	0
2	482591	5755388	Thin	5.994	244.836
2	482774.6	5754386	Thin	66.366	814.655
2	482965.3	5754458	Thin	66.366	814.655
2	483105.5	5754508	Thick	53.579	731.976
2	483356.1	5754604	Thick	49.292	702.085
2	483595.8	5754686	Thick	26.437	514.171
2	483826.9	5754771	Thin	79.166	889.755
2	484344.2	5754965	Thick	45.826	676.946
2	487232.8	5756013	Thick	21.748	466.345
2	488010.7	5756286	Thin	51.945	720.726
2	481862.2	5752989	Thin	7.849	280.153
2	484640.3	5753996	Thick	13.109	362.064



Given the surficial coverage of the area, with minimal outcropping geology, this AeroTEM dataset will be helpful when interpreting geological structures and identifying lithological boundaries. The expression of the Miminiska-Fort Hope Greenstone Belt (MFGB) can be seen by the arcuate response in the magnetics. This greenstone belt is said to be surrounded by granitic batholiths, and these tend to be magnetically quiet, as evidenced in the background Block 1 response.

In order to fully understand the magnetic and conductive responses, it is recommended to collect physical rock properties of the ore zone and surrounding rocks to help characterise their responses and constrain future modelling.

10.2 Ground Geophysical Surveys

Abitibi Geophysics Inc. was contracted to complete a ground gravity survey over the Norton Lake Property between July 26 and August 6, 2007 (Figure 10-15). The survey instrumentation consisted of a Scintrex CG-5u Autograv gravimeter. This instrumentation has a resolution of 0.001mGal. A high precision GPS system, a Leica AX1202 was operated in Real Time Kinematic mode for an accuracy of 5cm in both elevation and horizontal positioning. The GPS Base Station was a Leica GX1230. Each Leica system operated in dual frequency mode (L1 and L2) with phase measurements to maximize the number of observations (Boucher and Chemam, 2007).

The grid was laid out over the Norton Lake deposit at approximately 50 m station spacing, although several gaps were encountered, likely due to limited ground access due to surveying in summertime.

The survey coverage totals 437 stations covering 25.5 line-km over 225 ha, covering the Norton Lake deposit and surrounding area.

The following series of corrections was applied to the observed data to result in the Bouguer Anomaly map: Density, Latitude Correction, Free Air Anomaly and Terrain Correction (Boucher and Chemam, 2007). Figure 10-16 displays Bouguer Anomaly map. Given the dominance of the regional gradation of density from SW to NE, a first trend was removed using edge points from the Bouguer Anomaly data to highlight local gravity anomalies (Figure 10-17)

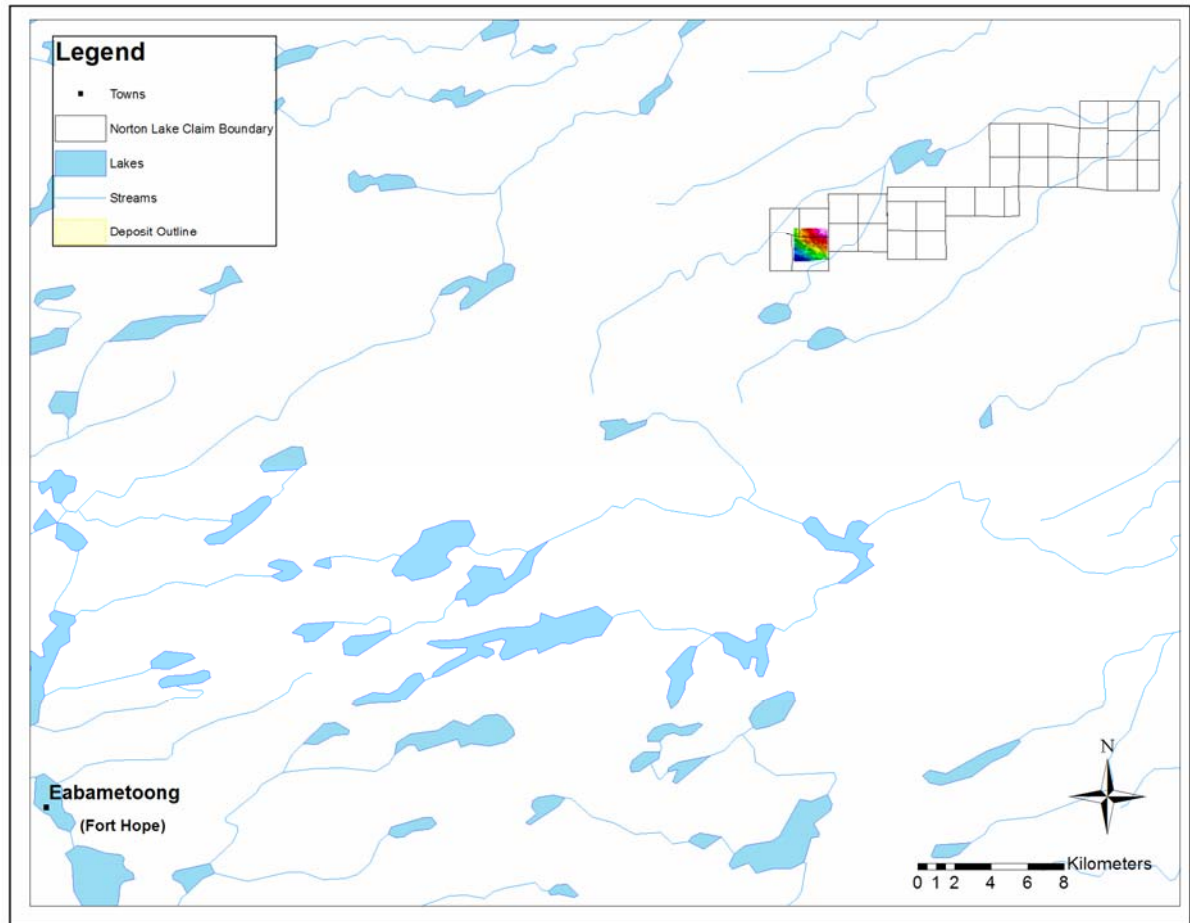


Figure 10-15. Location Map of Norton Lake gravity survey.

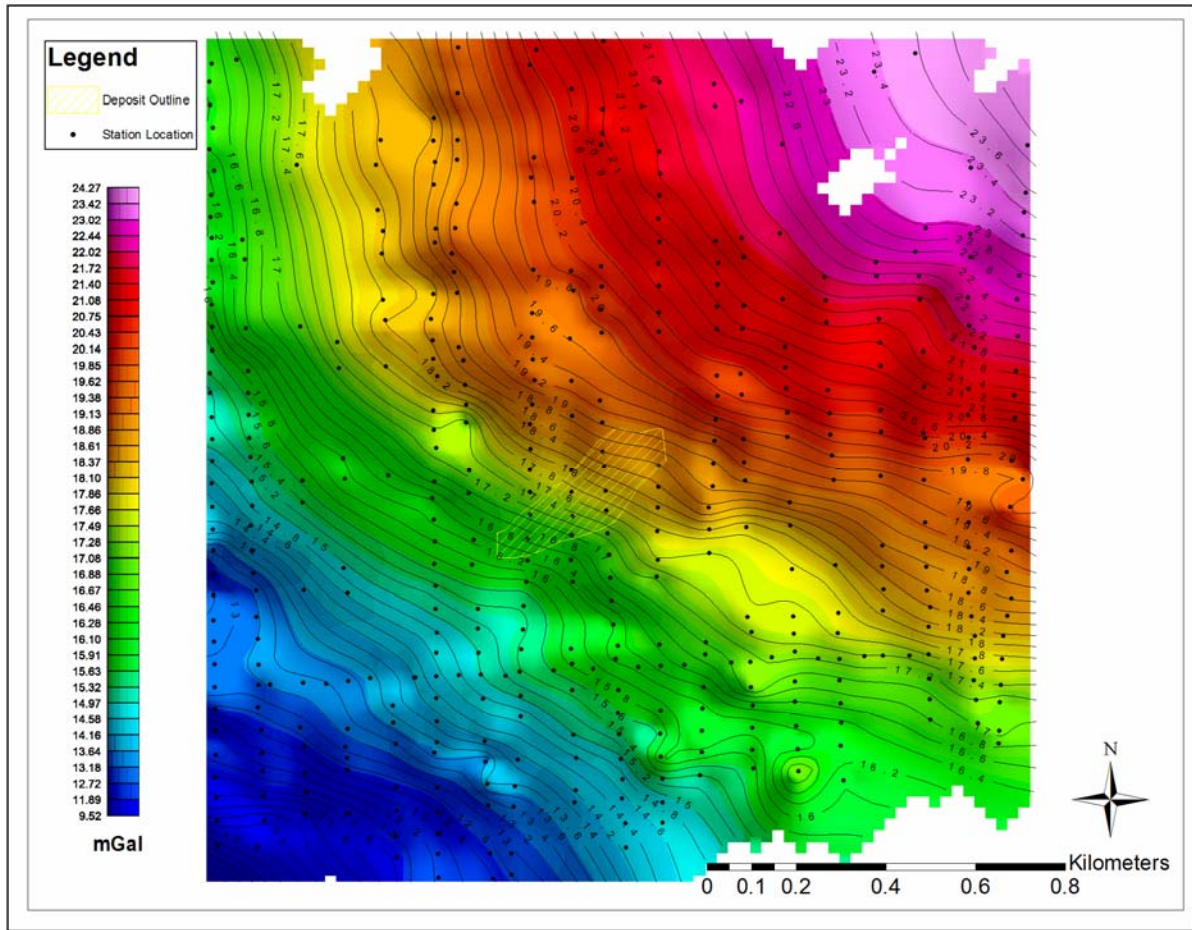


Figure 10-16. Bouguer Anomaly gravity map. Norton Lake deposit outlined in yellow. Contours are in mGal.

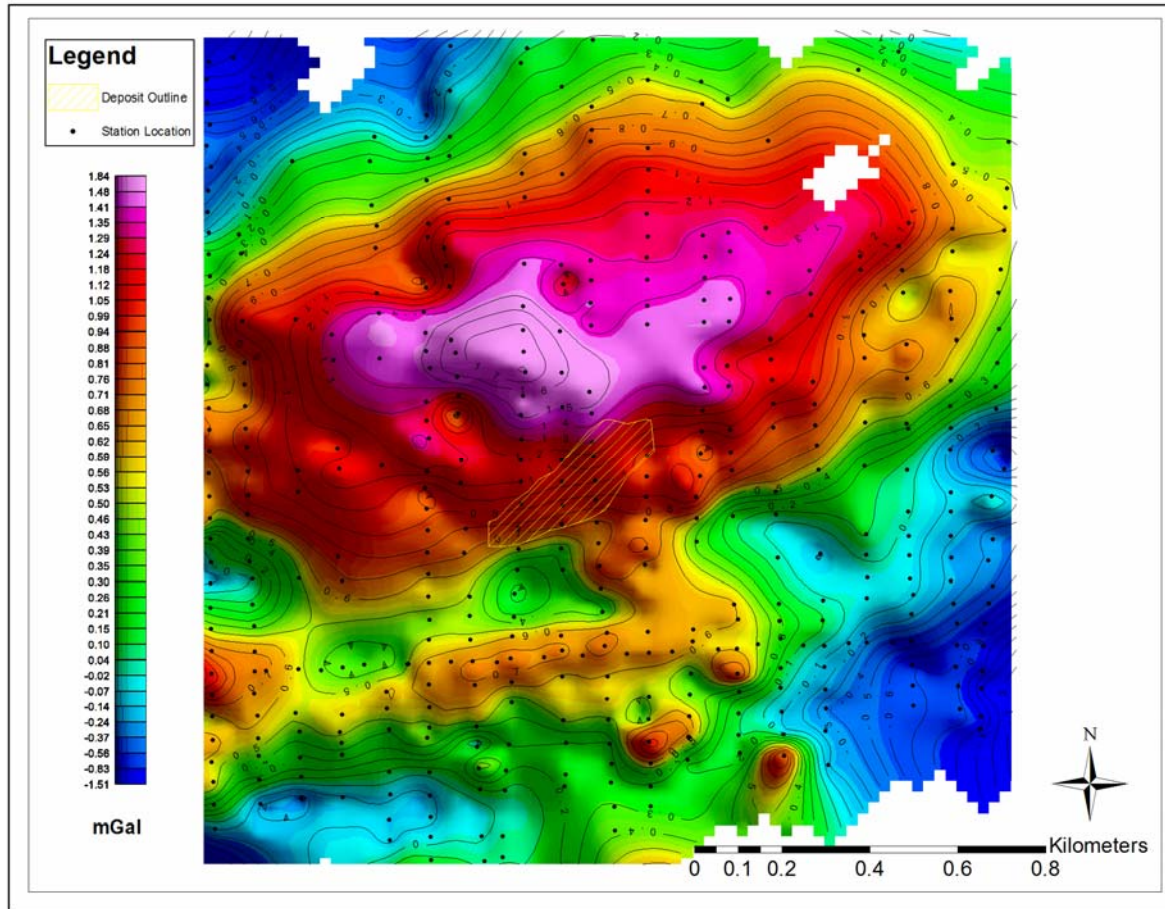


Figure 10-17. Corrected Bouguer Map with first trend removed. Norton Lake deposit outlined in yellow. Contours are in mGal.

There is a large, broad 1.4 mGal response centered on the southern antiformal fold limb, 325m N-W of the Norton Lake deposit. This feature is interpreted from the magnetics to consist of banded-iron formation and thus would be expected to contain higher density material. The Bouguer gravity broadly mimics the southern arm of this fold and extends both East and West to the survey boundaries. A smaller 0.3 mGal response striking 080° is noted to be coincident with the linear magnetic feature 350m south of the Norton Lake deposit. The Norton Lake Deposit does not have a distinct gravity response.

The Digital Terrain Map (DTM) is displayed in Figure 10-18. Given that the trend-removed Bouguer Anomaly map does not entirely mimic the DTM results, it is interpreted that the gravity data is reflecting the underlying geology.

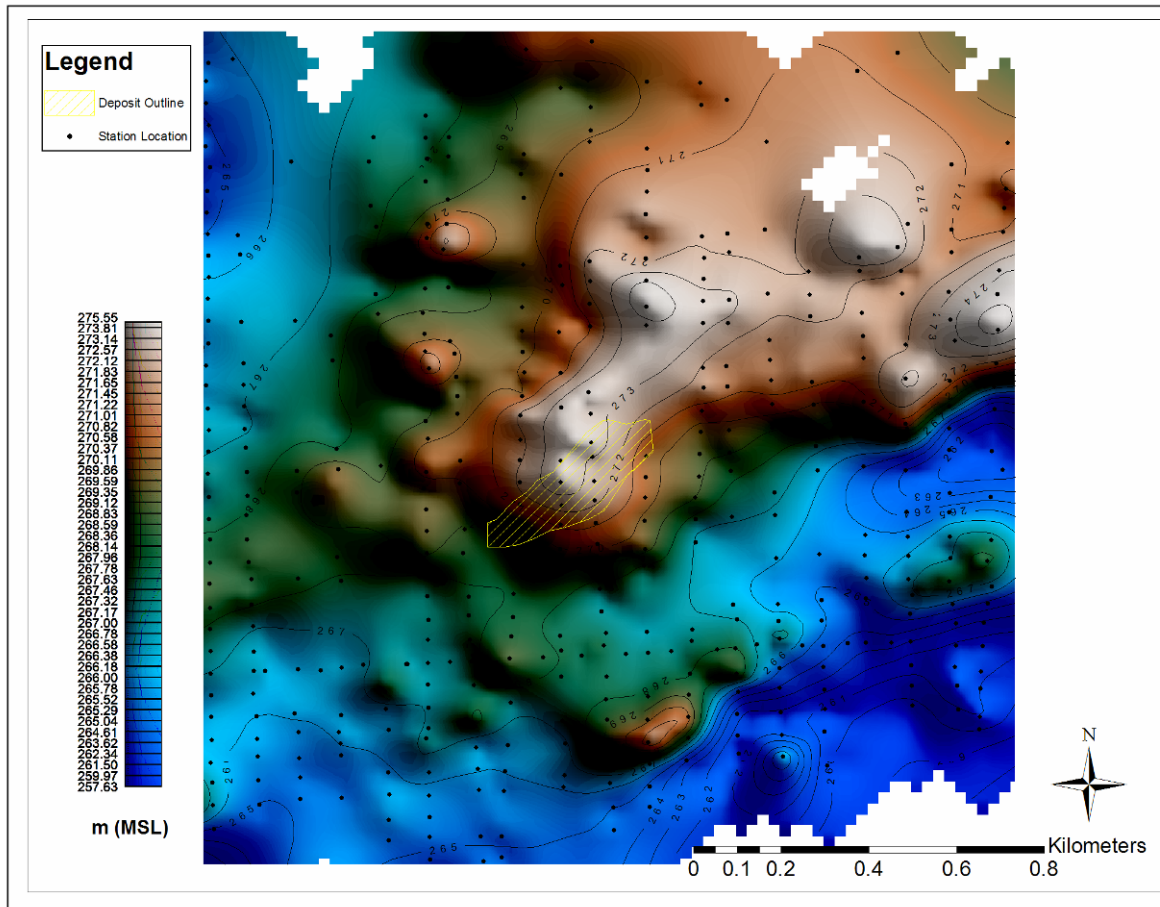


Figure 10-18. Digital Terrain Map. Norton Lake deposit outlined in yellow.

In addition to conducting the survey, Abitibi conducted a 3D geophysical unconstrained inversion of the data using the GRAVMAD3D software. The 3D results were presented in the final report and were not made available to CCIC.

In addition to a ground gravity survey, a small ground magnetic and VLF-EM survey was completed between August 22nd and September 1st, 2007 by Exsics Exploration Limited (Grant, 2007). This survey covered claims east of the Norton Lake area. A total of 72.8km of grid lines were surveyed at 200m line spacing, 25m station spacing and 12.5m reading intervals. The Transmitter station for the VLF-EM portion of the survey was Cutler Maine and the frequency was 24 kHz. The transmitter direction was 115°. In phase, quadrature, and field strength parameters were recorded.

The survey results outlined geological structures underlying the grid area, with predominate NE-SW strike direction. Several conductive zones were outlined throughout the property that generally relate to the edges of main magnetic high units. CCIC received the final report but did not have access to the original digital dataset (Grant, 2007). Hard copy maps of interpreted results were provided.



11.0 DRILLING

Since 2000, three drilling campaigns (8,554 metres in 64 holes) have been completed on the Property by East West and Cascadia. Previous to 2000, Wasabi completed a program (2,672.57 metres in 20 holes) that focused on “Anomaly U” or the main mineralized Norton Zone. Drill hole information from these 3 drilling programs was used to complete the current Mineral Resource Estimate. The historic drilling completed on the Property is reviewed in Section 6.0. Selected drill hole sections and plans are provided in Appendix 3 and Appendix 4 contains selected drill logs and assay data.

12.0 SAMPLING METHOD AND APPROACH

Unless otherwise mentioned, the following section describes the core sampling methods used during the East West (2002) and Cascadia (2004-2005) programs; few details of the Wasabi (1981) drilling program are not known to CCIC. No additional drilling has been completed since 2005. CCIC did not complete any soil or rock sampling on the Property.

Drill core intervals to be sampled were selected and marked by the drill geologist, prior to cutting of the core, at the time of logging. Selected drill core intervals (mainly the mineralized zone) from the Cascadia (2004) program was securely boxed and shipped to Thunder Bay where it was then logged and sampled at the Exploration Office of East West. Drill core from the East West (2002) and Cascadia (2005) programs was logged at the Property site (Banana Lake) and selected intervals (i.e. mineralized zone) were shipped to Thunder Bay for sampling at the Exploration Office of East West.

East West (2002) and Cascadia (2004-2005) typically sampled 1.0 metre intervals but collected smaller intervals (~0.5 metre minimum) on the basis of unique geology and/or sulphide mineralization, and to allow the geologist to adhere to major lithologic breaks. Larger intervals up to 1.5 metres were permitted for intervals considered barren or uninteresting, and for bracketing of the main mineralized zone into the hanging wall and/or footwall rocks. Core samples were split in half using a diamond saw, following the reference line and other markings defined by the geologist. The quality of the drill core was excellent and the samples were representative of the Norton deposit.

On the basis of the sampling intervals from drill logs, Wasabi (1981) appears to have sampled their drill core at intervals ranging from about 0.50 metres to 1.50 metres, depending on mineralization and geology. Core samples were split in half using a hydraulic or hand core splitter.

In summary, no issues regarding drilling, sampling or recovery factors that could materially impact the accuracy or reliability of the results were found. The sample quality was good as observed during the visit of the core storage facility. The samples are representative of the mineralization. No sample bias was identified.



12.1 Density Determination

The specific gravity (SG) value utilized in the Mineral Resource Estimate is 3.35 kg/m³, which was determined from a set of 528 measurements provided by Cascadia from their 2004 and 2005 diamond drilling campaigns. The SG data was sorted by corresponding nickel assay value, and 393 SG measurements correlating with 1000 ppm Ni or greater were averaged.

It is CCIC's recommendation that White Tiger perform specific gravity measurements on a regular basis during the subsequent phases of definition drilling on the Property.

13.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

Details of the sample preparation, analyses and security are known for the drilling programs conducted by East West (2002) and Cascadia (2004, 2005) but are not fully known for the drilling program conducted by Wasabi in 1981. Information regarding sample preparation, analytical techniques and certification of ALS Chemex Laboratories are provided in Appendix 5.

13.1 Sample Preparation and Analyses

13.1.1 Wasabi Resources Ltd. (1980-81)

Details of sampling preparation, analyses and security for the Wasabi Resources Ltd. 1981 diamond drilling program are not entirely known to CCIC. On the basis of the core examination conducted during the visit of the core storage facility, CCIC assumed that the selected core samples were split in half using a hydraulic or hand core splitter. Selected core samples were analyzed for gold and silver at Bell-White Analytical Laboratories Ltd. (Haileybury, Ontario) and for copper and nickel at X-Ray Assay Laboratories Limited (Don Mills, Ontario). Methods used were standard fire assay technique (method FA) for gold and silver and XRF (method code XRF) for copper and nickel; details of the methods and procedures are not known to CCIC. Drill core was stored on the Property but most of the main sulphide zone intervals were recovered by East West in 2001 as part of their re-sampling and confirmation assay program.

13.1.2 East West Resource Corp. (2002)

Selected core samples were sawn in half, prepared by ALS Chemex in Thunder Bay and sample aliquots were shipped for analyses at ALS Chemex Laboratory in North Vancouver, British Columbia. Upon receipt of the samples at the laboratory, a bar code was attached to the original sample bag, then scanned and weighed. Other information, such as the date, time, equipment used, and operator name, was also recorded. The scanning process was repeated for each subsequent activity performed on the sample, from sample preparation through to analysis, and finally storage of the sample.



Samples were prepared (method code PREP-31) by an initial crushing (code CRU-31) to 70% at <2 mm, followed by a 250 g riffle split of the rough sample (code SPL-21) and a final pulverizing of the split to 85% at <75 µm (code PUL-31). All samples were assayed for Pt, Pd, and Au using 30 g fire assay method PGM-MS23 with an ICP-MS finish, and for 34 elements using aqua regia ICP-AES method ME-ICP41. Selected core samples were analyzed for 13 major oxides using XRF method ME-XRF06 and for 17 rare earth elements using ICP-MS method ME-MS81. Ore grade (i.e. >10,000 ppm) samples were re-assayed for Ni and/or Cu using either atomic absorption method AA46 for Cu or AA62 for Ni.

13.1.3 Cascadia International Resource Inc. (2004-05)

Selected core samples were sawn in half, and the core samples were shipped to ALS Chemex in Thunder Bay for preparation, after which the sample aliquots were sent for analysis at ALS Chemex Laboratories in North Vancouver, British Columbia. Upon receipt of the samples at the laboratory, a bar code was attached to the original sample bag, then scanned and weighed. Other information, such as the date, time, equipment used, and operator name, was also recorded. The scanning process was repeated for each subsequent activity performed on the sample, from sample preparation through to analysis, and finally storage of the sample.

For the 2004 and 2005 drilling programs, selected core samples were sawn in half, prepared by ALS Chemex in Thunder Bay and shipped for analyses at ALS Chemex Laboratory in North Vancouver, British Columbia. Samples were prepared (method code PREP-31) by an initial crushing (code CRU-31) to 70% at <2 mm, followed by a 250 g riffle split of the rough sample (code SPL-21) and a final pulverizing of the split to 85% at <75 µm (code PUL-31). All samples were assayed for Pt, Pd, and Au using 30g fire assay method PGM-ICP23 using an ICP-AES finish, and for 34 elements using aqua regia ICP-AES method ME-ICP41. Selected core samples were analyzed for 13 major oxides using XRF method ME-XRF06 and for 17 rare earth elements using ICP-MS method ME-MS81; for the 2005 drilling program, method code ME-MS81 reported 38 elements. Ore grade (i.e. >10,000 ppm) samples were re-assayed for Ni and/or Cu using either atomic absorption method AA46 for Cu or AA62 for Ni.

A total of 486 specific gravity measurements (principal measurements and duplications) were completed on the main sulphide zone in drill holes NL05-09E, NL05-10 to 12, NL05-14, and NL05-16 to 21.

13.2 Sample Security

Mineralized sections of drill core from the East West and Cascadia drilling programs, as determined visually on the Property site, were secured and shipped back to the processing and storage facilities of East West in Thunder Bay, Ontario. Main sulphide zone intersections from the 1981 Wasabi



drilling are also stored at the East West facilities in Thunder Bay. Core deemed nonessential for sampling and further examination is stored on the Property site (Banana Lake). In Thunder Bay, East West has secure core storage, cutting and logging facilities at the exploration office of East West (1158A Russell Street, Thunder Bay, Ontario, P7B 5N2). Although some of the reject and pulp material from drill core and hand sample analyses are stored at the East West exploration office with the majority stored by ALS Chemex at their Thunder Bay laboratory. Photographs of the East West exploration office storage facility are provided in Appendix 6.

CCIC believe that the sample preparation, analyses and security for the East West and Cascadia drilling programs were completed according to industry standards.

14.0 DATA VERIFICATION

Upon initial review of the Norton data, and in CCIC's opinion, some aspects of sampling methodology and quality control/quality assurance (QA/QC) procedures followed by Cascadia and East West in their 2002, 2004 and 2005 drilling programs, were found to require supplementation for the purpose of a 43-101 compliant resource estimation. At the request of CCIC, steps were promptly taken by Cascadia to rectify the areas in question and the resultant assay data was considered by CCIC to adequately support the assay data collected by Cascadia and East West from their 2002, 2004 and 2005 programs.

CCIC are not aware of the procedural details used by Wasabi Resources Ltd. for their 1981 diamond drilling program but recognized the due diligence sampling completed by East West in 1991 (see Section 6.0) as supportive evidence for the validity of the assay data available from the Wasabi drilling.

14.1 Sample and Data Gaps

A number of sample gaps were found to exist within the mineralized zone. According to East West personnel, some intervals were not sampled because they were deemed unmineralized on the basis of visible observation during the core logging process. In addition, many instances exist where the mineralized zone was not bracketed – sampled above and below the zone - and therefore some ore-grade concentrations of Ni and/or Cu abutted core from which no data is available.

A few data gaps were found to exist within the mineralized zones themselves. These unsampled intervals were visually assessed during core logging to have insignificant Ni, Cu or PGE concentrations on the basis of lack of sulphide mineralization and/or rock type. A list of these intervals was compiled by CCIC and provided to Cascadia and East West personnel for sampling and the results have been incorporated into the database.



A total of 56.1 metres of additional assaying was completed in 2005 and the results incorporated into the database used for the Resource Estimate. Due to the unavailability of complete sections of core from historic drill holes, mainly Wasabi (1981) drill core, 18.44 metres of sampling gaps remain uncorrected. These gaps were included in the Mineral Resource Estimate but were artificially set to the half-detection limit value for Ni, Cu, Co, and Pd.

An MMI (Mobile Metal Ion) soil survey was carried out over the deposit in 2002. Samples were taken every 25 m. A number of sites did not produce a soil anomaly due to the deep humus. Lines 9W to 6E were sampled from BL 0 to 6N, lines 7E to 10E from BL 0 to 10N, and lines 13E to 14E from BL 0 to 15N. This grid corresponds to the grid shown in Figure 10-16.

14.2 Analytical Procedure

A quality control regime was not consistently followed by East West or Cascadia during the course of core sampling, although a regular regime was followed at the laboratory of ALS Chemex. At the request of CCIC, a total of 46 samples, collected from the pulps of previously sampled drill core, were sent to ALS Chemex, Thunder Bay for preparation, and subsequently forwarded to ALS Chemex North Vancouver, British Columbia for assaying.

The 46 samples were selected on the basis of nickel grade, to represent a lower-middle and higher-middle grade range of approximately 0.3 to 0.4% Ni and 0.7 to 0.8% Ni, respectively. The Ni, Cu, Co, and Pd results were separately compared to the results obtained during the drill programs. Given the relatively low grade of the samples submitted, the new results demonstrate a strong correlation to the original, with an average relative percent difference of 2.5% for Ni and 5.4% for Cu (Figures 14-1 and 14-2). Standards and blanks submitted along with the QA/QC core sample suite returned acceptable values. Complete details of the re-assayed sample intervals are provided in Appendix 7.

The soils were analyzed with a form of enzyme leach (MMI). The soils are not from a locally derived glacial till. These historic soil data should not be relied on.

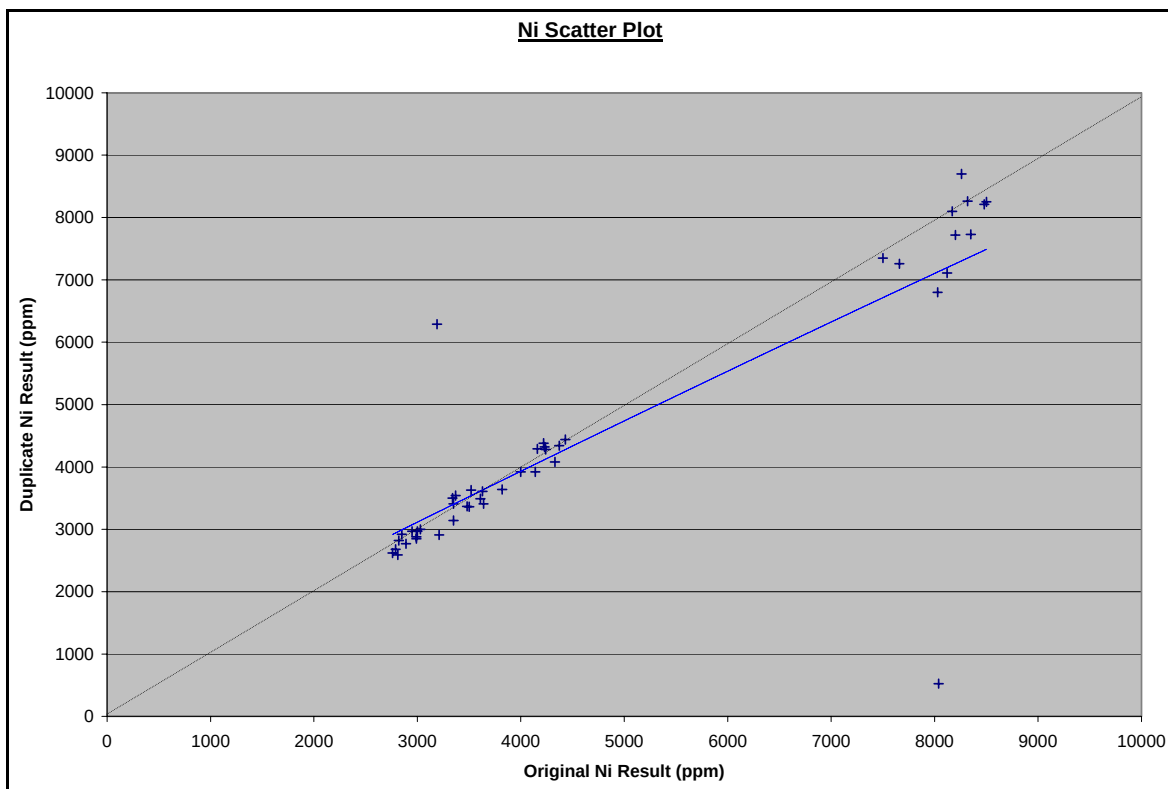


Figure 14-1. Scatter plot of original versus QA/QC assay results for nickel.

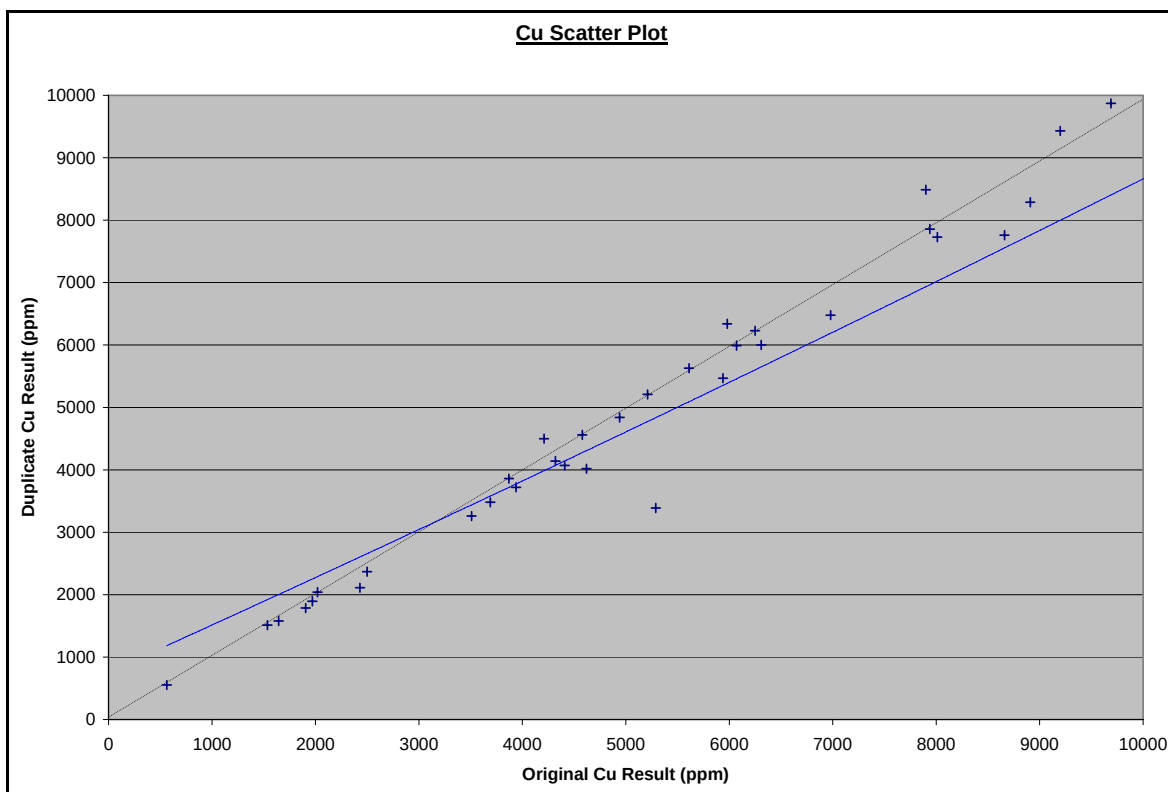


Figure 14-2. Scatter plot of original versus QA/QC assay results for copper.



It is the professional opinion of CCIC that the internal Quality Assurance/Quality Control program carried out by ALS Chemex during the course of the 2002, 2004 and 2005 drilling programs, including duplicates, blank controls and standard reference samples, was adequate for the scope of exploration drilling being conducted at the time.

In so far as the ability to utilize diamond drill hole data for future resource estimations, **it is CCIC's recommendation that QA/QC regime be implemented to include the insertion of standard reference material and blank standards (i.e. alternate a standard and a blank every 10th sample) as part of their core sampling procedure.**

14.3 Site Visit

The exploration office of East West (Thunder Bay, Ontario) was visited by Scott Jobin-Bevans, on behalf of CCIC, on October 19th and 20th, 2005 in order to verify that sample preparation and security meet industry standards. Diamond drill core from each of the phases of diamond drilling was examined (Section 14.1.1), data and hard copy maps were reviewed and discussions were undertaken with geologist Justin R. Johnson (principal consultant to East West) and Robert Middleton (former Exploration Manager, East West). Both Mr. Johnson and Mr. Middleton are thoroughly familiar with the Property, have extensive knowledge of magmatic Ni-Cu sulphide systems, and are familiar with the procedures required to conduct exploration work in Ontario. The data incorporated in the Resource Estimate had been collected in 2005 and it was verified at that point that industry standards were met. There has been no new drilling, sampling or assaying since the site visit in 2005.

A site visit to the Norton Lake Property was conducted by Robert Middleton in March 2009 and in April 2009. Mr. Middleton verified that there have been no material changes on the Property since the 2007 geophysical survey.

CCIC were satisfied with the data quality and did not collect any due diligence samples of the drill core for re-assay as a significant number of core samples was re-assayed as part of the QA/QC procedures for the Mineral Resource Estimate (see Section 14.0).

14.3.1 Drill Core Examination

During the visit of the core storage facility in 2005, selected diamond drill core from the 1981 Wasabi, 2002 East West and 2004-2005 Cascadia drilling programs was examined by Scott Jobin-Bevans (Table 14-1). Selected photographs of drill core are provided in Appendix 6.

In general, all of the examined drill core was in excellent condition, clearly labelled and properly stored on solid core racks or cross piled; the U-series core was in good condition considering its age



and the amount of sampling and handling it has endured. The wooden blocks in the core trays were marked in feet and core logs are recorded in metres, resulting in some confusion in the measurement of the core during the examination of specific intervals. However, the assay tags were secured (stapled) to the drill core trays and the drill core is sufficiently marked such that correlation between specific intervals and assays could be clearly made. **In the future, to avoid confusion and potential mistakes in the logging of the drill core, CCIC recommend that one standard of measurement, preferably metres, be adopted and that the drill contractor be instructed to use the same unit of measure on the wooden blocks.**

Table 14-1. Summary of selected drill core examined during the visit of the core storage facility.

Drill Hole	Boxes	Comments
U-4	6, 7, 8, 9	examined mineralized zone (~41.85-66.65 m); AQ core; small blocky pieces; hand split
O	11, 12, 13, 14	examined mineralized zone (~47.27-58.27 m); BQ core; split by saw
NL04-01	36, 37, 38	examined mineralized zone (~682.00-708.00 ft); BQ core; split by saw
NL04-04	27, 28, 29	examined mineralized zone (~492.50-499.50 ft); BQ core; split by saw
NL04-07	14, 15, 16, 17	examined mineralized zone (~279.00-311.00 ft); BQ core; split by saw
NL04-09/09E	39/1, 2, 3	examined mineralized zone (~173.51-182.92 m); BQ core; split by saw
NL05-12	55, 56, 57, 58, 59, 60	examined mineralized zone (~310.46-323.28 m); BQ core; split by saw
NL05-22	29, 30	examined mineralized zone (~174.56-180.93 m); BQ core; split by saw

15.0 ADJACENT PROPERTIES

Examination of the mining claim information available from the MNDM shows that Platinex Inc. hold four claims immediately to the west of White Tiger's Norton Lake claims (see Figure 4-1). Table 15-1 lists the claims held by Platinex Inc.

Table 15-1: Claims adjacent to White Tiger's Norton Lake claims

Area	Holder	Claim	Recorded	Due	No. Units
Norton Lake	Platinex Inc.	4229516	15-Apr-08	15-Apr-10	16
Norton Lake	Platinex Inc.	4229522	15-Apr-08	15-Apr-10	16
Turley Lake	Platinex Inc.	4229463	15-Apr-08	15-Apr-10	16
Turley Lake	Platinex Inc.	4229464	15-Apr-08	15-Apr-10	8

CCIC are not aware of the exploration activity, if any, being conducted on these mining claims or on any of the crown lands adjacent to the Property.



16.0 MINERAL PROCESSING AND METALLURGICAL TESTING

CCIC are not aware of any metallurgical processing or metallurgical testing that has been conducted on material from the Norton Lake Ni-Cu-Co Deposit or on any other material from the Property.

17.0 MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES

17.1 Database Generation

The Mineral Resource Estimate herein was calculated in 2005 and is based on data provided by Cascadia, incorporating diamond drilling information from previous drilling programs on the Property (Jobin-Bevans and Kelso, 2005). Categorization of the Mineral Resource was based on that provided by Postle et al. (2000) and it also complies with the current CIM Definition Standards (http://www.cim.org/committees/guidelinesStandards_main.cfm). The drill core data were collected by Wasabi Resources Ltd. (1981), East West (2002), and Cascadia (2004, 2005) and drill core logs and assay data were provided to CCIC in hard-copy and digital format. The data were organized into Datamine-compatible, spreadsheets and data not pertinent to the current Mineral Resource Estimate were omitted (Table 17-1). Assistance in organizing and verifying the database was provided by J.R. Johnson, Geological Consultant, J.R. Johnson Geological Services, Thunder Bay, who has been the principal consultant on the Property and is under contract to East West.

CCIC are not aware of any environmental factors or infrastructure issues that could affect the results of the resource estimate.

As a limited number of assay entries were available per drill-hole, the stratigraphy information was telescoped to ensure that the drill-holes were correctly rectified to their survey data. For example, a single stratigraphic entry covering 100 metres would be broken down into 10 stratigraphic entries using the same attribute, each covering a 10 metre interval.

Table 17-1. Summary of diamond drill hole data used in the current Mineral Resource Estimate.

Data File	No. Records	Attributes	Comments
collar	66	drill hole ID, UTM coordinates	-
survey	525	drill hole ID, depth, bearing, dip	-
assay	735	drill hole ID, from, to, Au, Pt, Pd, Ni, Cu, Co	sample gaps ignored
assay b	756	drill hole ID, from, to, Au, Pt, Pd, Ni, Cu, Co	sample gaps set to trace
stratigraphy	1216	drill hole ID, from, to, stratigraphy	telescoped

17.1.1 Topographic Model

The Digital Elevation Model (1:50,000 scale) for NTS 42M/14, used for surface topographic control, was obtained from the Canadian Digital Elevation Data (CDED) website (www.geobase.ca/geobase/en/) and was found to adequately correlate with drill-collar elevations



measured in the field. The CDED consists of an ordered array of ground elevations at regularly spaced intervals. The source digital data for CDED at scales of 1:50,000 and 1:250,000 are extracted from the hypsographic and hydrographic elements of the National Topographic Data Base (NTDB) or various scaled positional data acquired from the provinces and territories.

17.2 Wireframe Modelling

The Norton Zone was modelled over a number of passes as the database was developed and the interpretation refined. The final wireframe model, employed in the Mineral Resource Estimate, is a 1000 ppm Ni grade shell (Figures 17-1 and 17-2). Modelling to Ni-grade as opposed to the pyroxenite breccia zone (“PXB”, Table 17-2) was preferred, as 38% of significant Ni samples are contained in stratigraphy adjacent to the pyroxenite breccia (Table 17-2).

Table 17-2 Stratigraphy and influence of samples within the grade shell, developed on nickel grade.

Stratigraphy Code	Influence (%)	Average Ni Grade (ppm)
GAB	1.3	867.1
GR	0.4	3094.8
MVOL	5.0	3314.7
PX	15.1	4771.4
PXB	62.4	8098.5
SED	2.5	6258.6
SHGAB	13.4	3521.7

A significant problem was identified during database validation: at the core-logging stage, lithologies flanked by mineralization (e.g. a breccia fragment) were sometimes not sampled if deemed “waste rock” by visual observation. Furthermore, mineralized zones were in some cases not bracketed by sampling into the hanging wall or footwall rock. In both cases, the matter was more significant with respect to the core sampling completed by Wasabi Resources Ltd. (1981).

At the request and recommendation of CCIC, Cascadia promptly initiated an assay program in October 2005, in order to in-fill the sample gaps and to bracket the mineralized zones into the hanging wall and footwall rocks. However, some of the drill core was not readily available as it is stored on the Property; as a result not all of the gaps and bracketing identified by CCIC could be completed (Table 17-3). Nonetheless, **CCIC are satisfied with the assay program completed and have made necessary adjustments to the current Resource Model.**

Assay results became available November 9th, 2005 and 26% of the new values served to amplify the limits of the grade shell. In addition to extents of sample data, the grade shell is spatially limited by topography and interpreted structure. Spatial statistics for the grade shell are provided in Table 17-4.



Table 17-3. Sample gaps (>0.5 metres) within the nickel based grade shell.

Drill Hole	From (m)	To (m)	Interval (m)
U-19	197.80	199.60	1.80
U-3	60.00	63.00	3.00
U-3	66.00	68.00	2.00
U-4	47.00	49.80	2.80
U-4	54.00	60.00	6.00
U-4	60.00	61.00	1.00
Total Interval (m):			16.60

Table 17-4. Spatial statistics of the Norton grade shell (NAD83 UTM Z16N).

Axis	Minimum (m)	Maximum (m)	Range (m)
UTM E	470698	471075	377
UTM N	5749970	5750298	328
Z	-136	272	408

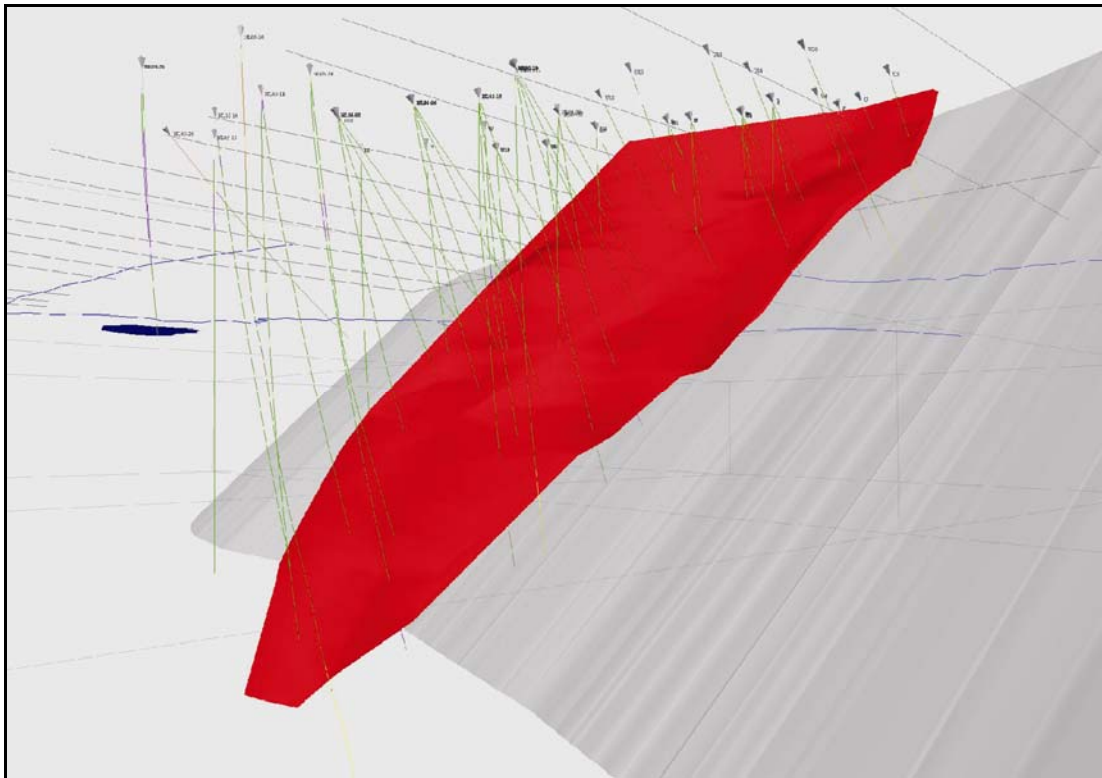


Figure 17-1. True perspective southeast view of the Norton grade shell (red) with drill hole traces.

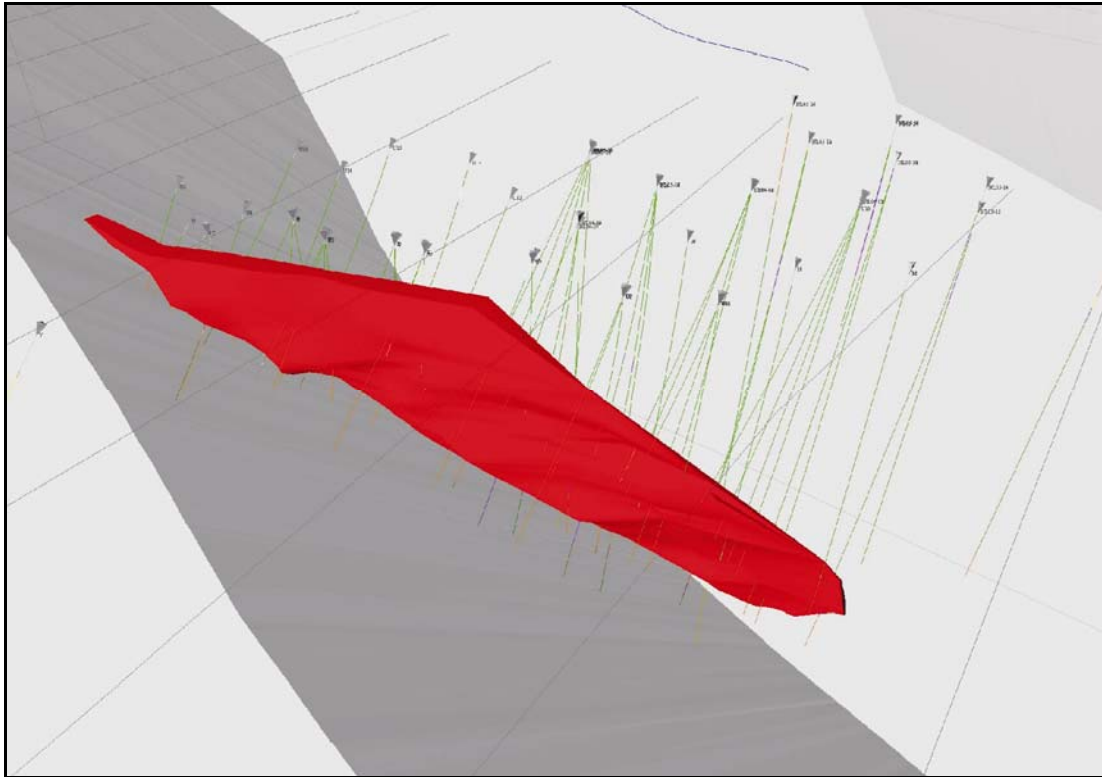


Figure 17-2. True perspective northwest view of the Norton grade shell (red) with drill hole traces.

17.3 Density Determination

The specific gravity (SG) value utilized in the current Mineral Resource Estimate is 3.35 kg/m³, which was derived from a set of 528 measurements provided by Cascadia from their 2004 and 2005 diamond drilling campaigns. The SG data were sorted by corresponding Ni assay value, and 129 SG measurements correlating with >1000 ppm Ni were averaged (Table 17-5).

Table 17-5. Summary of specific gravity data used for the current Mineral Resource Estimate.

Drill Hole	No. Samples	Avg Density (kg/m ³)
NL04-09e	12	3.50
NL05-10	9	3.30
NL05-11	6	3.31
NL05-12	21	3.26
NL05-13	14	3.37
NL05-14	5	3.40
NL05-16	8	3.39
NL05-17	12	3.70
NL05-18	17	3.37
NL05-19	13	3.21
NL05-20	5	2.96
NL05-22	7	3.29
	AVERAGE:	3.35



17.4 Adjustments to Sample Database

Histograms were generated for each commodity (element) to be incorporated in the Mineral Resource Estimate (Ni, Cu, Co, Pd) in order to identify outliers and test optimal composite lengths. Various histograms for each element are presented in Appendix 8.

17.4.1 Sample Concentration Capping

In total, three statistical outliers in the sample database were capped. The samples selected for capping were reset as equal to the next highest value for that particular element. A summary of capped sample concentrations is provided in Table 17-6.

Table 17-6 Sample capping for three statistical outliers, developed on the basis of anomalous concentrations.

Drill Hole	From (m)	To (m)	Ni (ppm)	Cu (ppm)	Co (ppm)	Pd (ppb)	Modification
NL05-14	335.4	336.6	11,600	4,250	37	10,450	Pd capped to 1,580
NL05-14	336.6	337.86	17,700	12,000	100	3,480	Pd capped to 1,580
F	60.63	61.63	4,130	72,600	329	420	Cu capped to 35,200

17.4.2 Treatment of Sampling Gaps

Some sample gaps were not filled by the re-assaying because the core was not available. The issue remains most significant in the area of drill holes U-4 and U-3. Adjacent drill sections do not suggest a consistent bifurcation of the mineralized zone and the gaps were therefore modelled into the grade shell as schematically shown in Figure 17-3.

As a measure of due-diligence, remaining sampling gaps included within the grade shell were artificially set to half detection-limit (trace) concentrations for each element. This represents a worst-case scenario whereby, if sampled, the gaps would return null values. This is unlikely, given that 26% of the gaps and brackets assayed for this study returned values above 0.1% Ni. A summary of intervals artificially put to trace is presented in Table 17-7.

Should the outstanding core remain unavailable, **CCIC recommend that the following measures be considered:**

1. Twin drill hole U-4 or target the region between drill holes S and T.
2. Drill an intercept 10 metres down-dip of drill hole U-3.

The mineralized zones should be continuously sampled with minimum 2 metre brackets on either side of the mineralized zone(s) into the hanging wall and footwall.



17.4.3 Sample Composites

The average length of all samples in the database is 1.09 metres and varies between 0.06 metres and 7.00 metres. A few protracted sample lengths are the consequence of reporting in previous drilling (Wasabi Resources Ltd. 1981) with drill results having been reported as mineralized-zone composites rather than as individual assays. For the current Mineral Resource Estimate, samples enclosed within the grade shell wireframe were filtered to a separate sample database and thereafter composited to 1 metre intervals. Trace value substitution was completed prior to compositing.

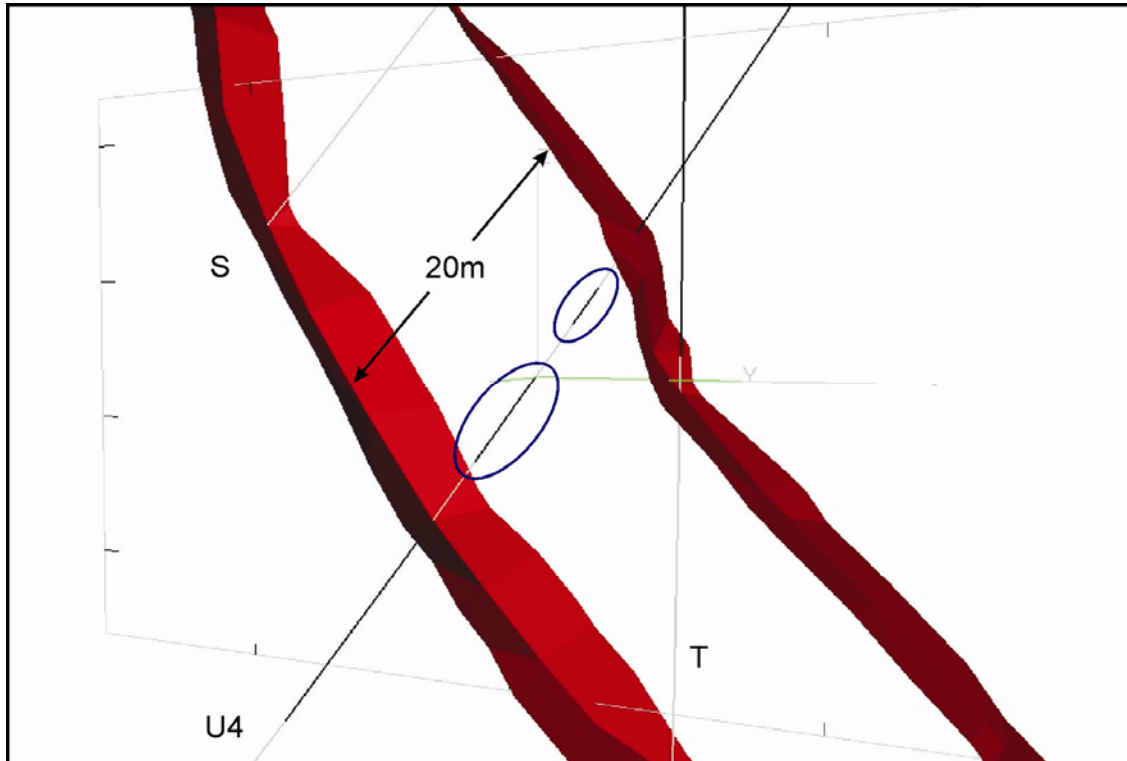


Figure 17-3. South-north schematic section illustrating the U-4 sample gap within the grade shell.

17.5 Variography

The general orientation of the grade shell was determined to be striking 250° to 270° and dipping 60° toward the north. Strike-dip and down hole variogram models were generated for each of the 4 elements to be considered (i.e. Ni, Cu, Co, Pd). The nugget of each strike-dip variogram was normalized to the nugget/sill ratio of each corresponding down-hole variogram. Search parameters were derived from the adjusted strike-dip variograms. For the reason that added trace-values in the database are artificial, variogram models were designed prior to trace-value substitution.



Table 17-7. Sample gap substitutions using artificial values in the Norton Lake grade shell.

Drill Hole	From (m)	To (m)	Interval (m)	Artificial Value Substituted			
				Ni (ppm)	Cu (ppm)	Co (ppm)	Pd (ppb)
C	74.90	74.93	0.03	0.50	0.50	0.50	0.50
F	58.50	58.63	0.13	0.50	0.50	0.50	0.50
G	41.85	41.92	0.07	0.50	0.50	0.50	0.50
NL04-02	240.11	240.19	0.08	0.50	0.50	0.50	0.50
NL04-05	191.43	191.74	0.31	0.50	0.50	0.50	0.50
NL04-07	85.00	85.04	0.04	0.50	0.50	0.50	0.50
NL04-09	173.10	173.30	0.20	0.50	0.50	0.50	0.50
NL05-10	311.10	311.12	0.02	0.50	0.50	0.50	0.50
NL05-18	265.50	265.52	0.02	0.50	0.50	0.50	0.50
Q	90.26	90.30	0.04	0.50	0.50	0.50	0.50
Q	101.94	102.10	0.16	0.50	0.50	0.50	0.50
S	24.90	24.94	0.04	0.50	0.50	0.50	0.50
U-16	169.50	169.70	0.20	0.50	0.50	0.50	0.50
U-19	197.80	199.60	1.80	0.50	0.50	0.50	0.50
U-3	60.00	63.00	3.00	0.50	0.50	0.50	0.50
U-3	66.00	68.00	2.00	0.50	0.50	0.50	0.50
U-4	47.00	49.80	2.80	0.50	0.50	0.50	0.50
U-4	54.00	60.00	6.00	0.50	0.50	0.50	0.50
U-4	60.00	61.00	1.00	0.50	0.50	0.50	0.50
U-7	89.50	90.00	0.50	0.50	0.50	0.50	0.50
Total Intervals (m):			18.44				

17.5.1 Grade Classification

The original search-ellipse dimensions (search parameters) were tiered to classify results into Measured, Indicated, and Inferred. The classification parameters are presented in Table 17-8.

Table 17-8. Grade classification parameters for the Mineral Resource Estimate.

Grade Category	Volume of Search Ellipse	Minimum Samples Required
Measured	0 - 80%	10
Indicated	80 - 120%	10
Inferred	> 120%	1

17.6 Block Modelling

A summary of parameters used to generate the block model is presented in Table 17-9 and a perspective view of the block model is shown in Figure 17-4. In the context of a Global Resource, a higher number of samples contributing to the estimated grade of fewer, larger blocks will serve to reduce the kriging variance. Discretization refers to “a discrete position within a block where a grade is estimated”.



Table 17-9. Block model parameters for current Mineral Resource Estimate.

Axis	Parent Block	Subcell	Discretization Points Within Block
X	50 m	25 m	5
Y	1.0 m	0.5 m	2
Z	50 m	25 m	5

The block model was created on the Norton Zone using block sizes of 50 x 50 x 1.0 metres. The X and Y cell dimensions were selected on the basis of drill hole spacing and geological confidence in the continuity between drill sections. A series of typical block model sections with interpolated grades are presented in Appendix 9.

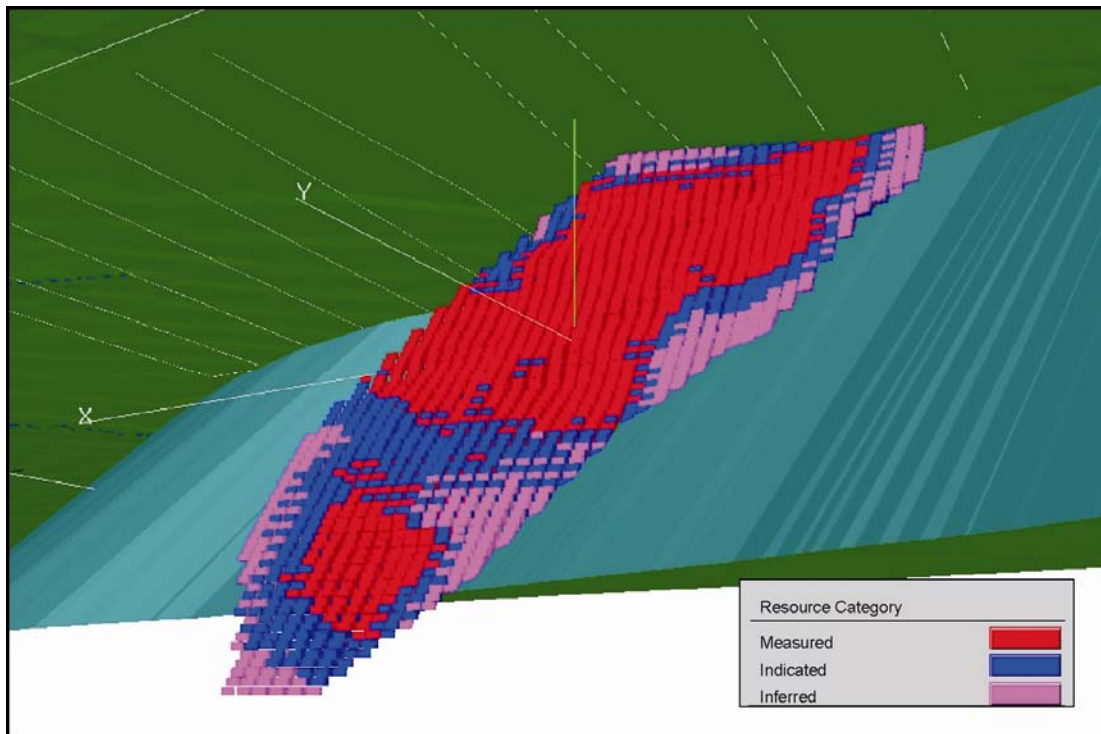


Figure 17-4. True perspective southeast view of the Norton block model (coloured by resource category).

17.7 Grade Interpolation

Grade interpolation was completed using **Ordinary Kriging Methods**. The results are reported at 0.3% Ni and 0.5% Ni cut-offs in Tables 17-10 and 17-11. To report the results in this manner, the block model containing all estimated results was filtered to two files containing only blocks estimated to be 0.3% Ni or greater and 0.5% Ni or greater. Tonnage-grade evaluations were then executed against these filtered (cut-off) files. Comprehensive results are presented in Appendix 8.

Table 17-10. Norton Lake deposit Mineral Resource Estimate reported at 0.3% Ni cut-off



Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,769,721	0.67	0.61	0.03	0.46
Indicated	488,933	0.67	0.61	0.03	0.47
TOTAL	2,258,654	0.67	0.61	0.03	0.46
Inferred	198,571	0.66	0.59	0.03	0.47

Table 17-11. Norton Lake deposit Mineral Resource Estimate reported at 0.5% Ni cut-off

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,456,329	0.73	0.65	0.03	0.49
Indicated	427,041	0.71	0.63	0.03	0.48
TOTAL	1,883,370	0.73	0.65	0.03	0.49
Inferred	160,884	0.71	0.61	0.03	0.47

Additional estimates and tonnage-grade evaluations were conducted exclusively on that portion of the block model lying within 200 metres vertical of surface. These results are reported at 0.3% Ni and 0.5% Ni cut-offs in Tables 17-12 and 17-13. To report the results in this manner, the grade shell was incised with topography repeated at Z minus 200 metres. A block model was filled into the 'upper' grade shell and an estimate was run using only samples lying within the new grade shell. The estimated block model was filtered to two files containing only blocks estimated to be 0.3% Ni or greater and 0.5% Ni or greater. Tonnage-grade evaluations were then executed against these filtered (cut-off) files. A grade tonnage curve for Ni is presented in Figure 17-5.

Table 17-12. Norton Lake deposit within 200 m of surface, Resource Estimate reported at 0.3% Ni cut-off.

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,248,043	0.66	0.58	0.03	0.48
Indicated	191,955	0.61	0.51	0.03	0.47
TOTAL	1,439,998	0.65	0.57	0.03	0.48
Inferred	82,745	0.63	0.53	0.03	0.49

Table 17-13. Norton Lake deposit within 200 m of surface, Resource Estimate reported at 0.5% Ni cut-off.

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	979,205	0.72	0.62	0.04	0.51
Indicated	155,608	0.65	0.53	0.03	0.48
TOTAL	1,134,813	0.71	0.61	0.04	0.51
Inferred	61,138	0.69	0.54	0.03	0.50



In this Report, Mineral Resources are reported. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.

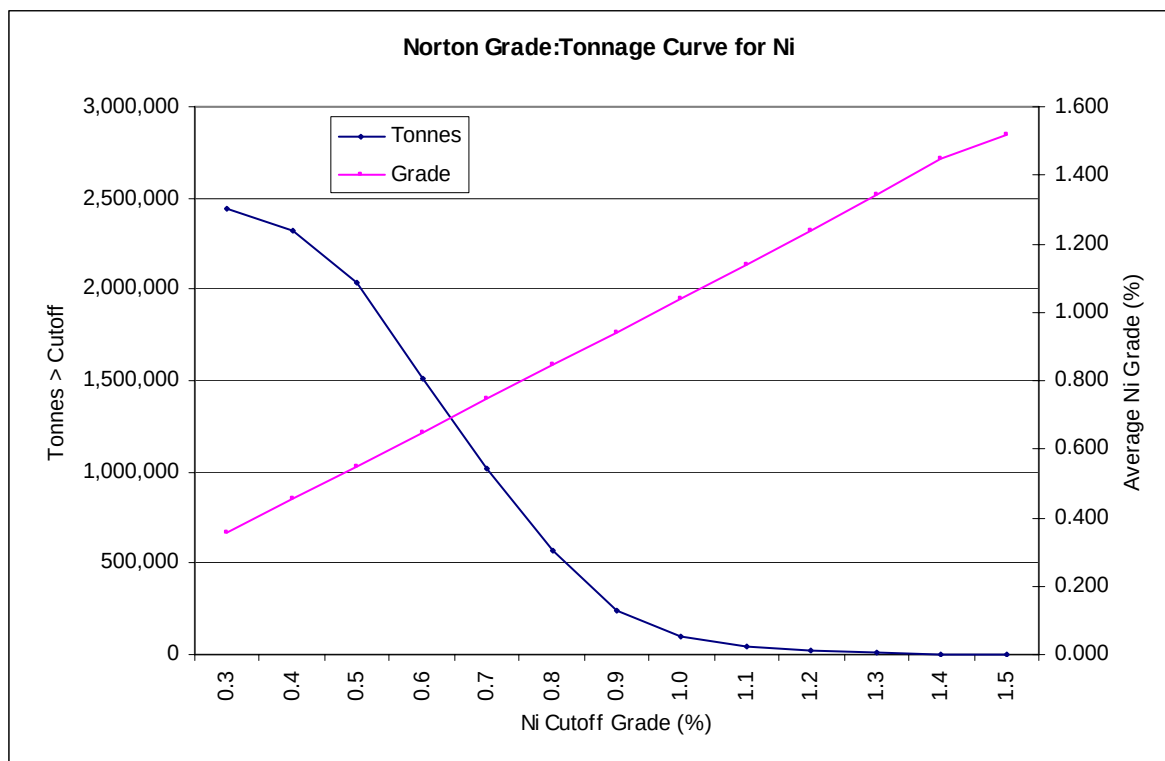


Figure 17-5. Grade-Tonnage Curve for Ni.

17.7.1 Block Model versus Sample Database Mean

To test the reasonability of the Mineral Resource Estimate, the mean of block model results was compared to the mean of samples used to calculate them. The comparison suggests a reasonable outcome and indicates nickel to be the most predictable ore-grade commodity within the deposit (Table 17-14). This test was executed against an estimated block model and sample-database that excluded synthetic trace-values.

Table 17-14. Comparison of sample database and block model mean grades.

Element	Mean of Samples in Grade Shell	Mean of Block Model Grades	Difference (%)
Ni (ppm)	6630.47	6673.83	0.65
Cu (ppm)	5802.25	6055.63	4.27
Co (ppm)	329.72	317.96	-3.63
Pd (ppb)	471.09	462.97	-1.74



17.7.2 Cross Validation

Using the search, estimation, and variogram model parameters, the sample database was used to forecast the grade at each point in space where a sample is positioned; the grade at a sample-position being predicted was disqualified from the calculation (Figure 17-5). The cross validation was executed on the primary commodity Ni via the sample-database excluding synthetic trace-values (Table 17-15).

Table 17-15. Cross-Validation statistics for Ni (ppm).

Cross-Validation Statistics For Ni (ppm)	
Number of samples estimated	547.00
Number of samples not estimated	15.00
Mean of actual values	6630.47
Mean of estimated values	6687.50
Mean difference (act - est)	-57.03
Mean difference (as % of actual)	-0.86
Mean absolute difference	1804.79
Variance of actual values	20030000.00
Variance of estimated values	13320000.00
Correlation coefficient	0.81
Kriging Variance:	
Mean of KV estimated from model	0.29
Mean of squared differences	6727996.00

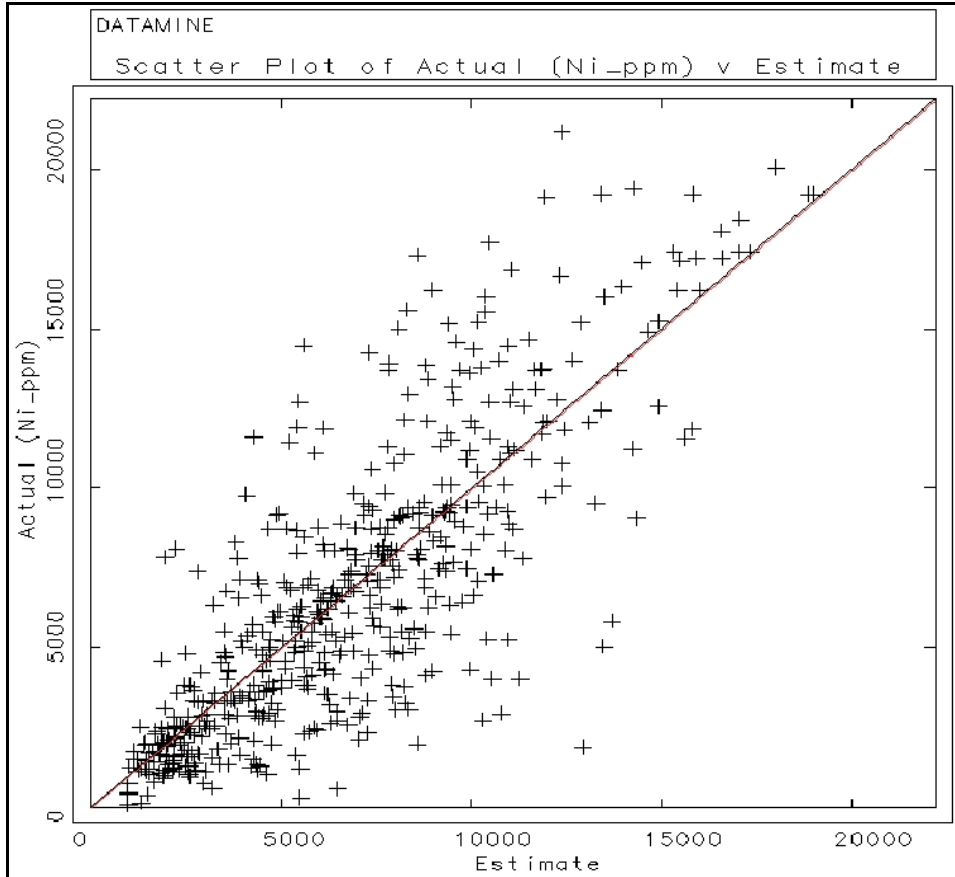


Figure 17-6. Scatter plot of actual-sample versus forecast-sample nickel grades.

17.8 Responsibility for Estimation

The Mineral Resource Estimate presented in this Report was prepared by Iain Kelso under the overall direction and responsibility of Scott Jobin-Bevans, P.Geo. Mr. Kelso and Mr. Jobin-Bevans are independent of the Issuer and all other parties involved in the Norton Lake Property.

18.0 OTHER RELEVANT DATA AND INFORMATION

CCIC have not discovered and are not aware of any other relevant data and information that would be of any pertinence to the information already contained in this Report, as provided to CCIC by White Tiger and East West and/or any of its agents.

19.0 INTERPRETATIONS AND CONCLUSIONS

White Tiger's priority target is a semi-massive to massive sulphide deposit (Norton Zone), whose geometry has been suitably delineated to warrant a Mineral Resource Estimate. Although the Norton Zone is not exposed at surface, it is generally well defined by diamond drilling and geophysical surveys.



Sulphide mineralization is hosted within a sheared amphibolite unit located between an upper basalt and a lower sedimentary unit. The Norton Zone is commonly brecciated (durchbewegung texture) with the breccia primarily consisting of mafic, ultramafic, and gabbroic fragments in a deformed, sulphide-bearing matrix; highly siliceous (cherty) fragments were also noted by Johnson (2005b), and these were likely sourced from local iron formation. The sulphide mineralization is dominated by semi-massive to massive pyrrhotite and subordinate pentlandite in irregular stringers, veins and patches forming 10% to 75% of the rock volume and averaging 30-35%; chalcopyrite is erratically distributed in grains, patches and seams. Pentlandite and violarite are the primary nickel-bearing minerals and localized sphalerite and arsenopyrite were noted (McLeod, 1981).

On the basis of the Mineral Resource modelling, the Norton Zone strikes about 250° to 270° and dips at about 60° toward the north, with a strike length from 225 to 300 metres and true widths ranging from about 5.0 to 10.0 metres (average ~7.0 m). The Norton Zone is open to the northeast with good potential for expanding the Mineral Resource, and with the potential for added tonnage down-dip and plunge (northeast at 60-70°) and within the Norton Zone itself.

In addition, mineralization intersected in drill holes U-14 and U-4 suggest a separate sulphide zone directly south of the Norton Zone between L1W and L1E (the “south zone”). A fault, originally interpreted from airborne EM, trends 107° and likely defines the western limit of the Norton Zone (Figures 6-2, 6-3, 6-4). This fault appears to have displaced what was the western extension of the Norton Zone, eastward to its present interpreted position (Figure 19-1). This interpreted displacement suggests that the south zone could continue to the west and/or east, below the fault, defining a parallel sulphide zone. As it is currently defined by only two drill holes (U-14 and U-4), the south zone was not included in the Mineral Resource Estimate.

A longitudinal section through the plane of the sulphide zone and contoured on zone thickness outlines two near-surface lenses (>9 m thickness) of sulphide mineralization (Figure 9-1). Lens I, although persistent to depth, appears to give way to Lens II which is clearly the more dominant of the two in terms of relatively consistent widths (i.e. >9 m intercepts) to depth. The down plunge extent of Lens II was tested during the 2005 drilling and was found to continue to depth in drill holes NL05-10, 12, 13 and 11 (e.g. NL05-11: 5.81 m of 1.26% Ni and 0.35% Cu). In the Mineral Resource Estimate, the 0.1% Ni grade shell encompasses both lenses and approximates the 3 metre thickness contour in Figure 9-1.

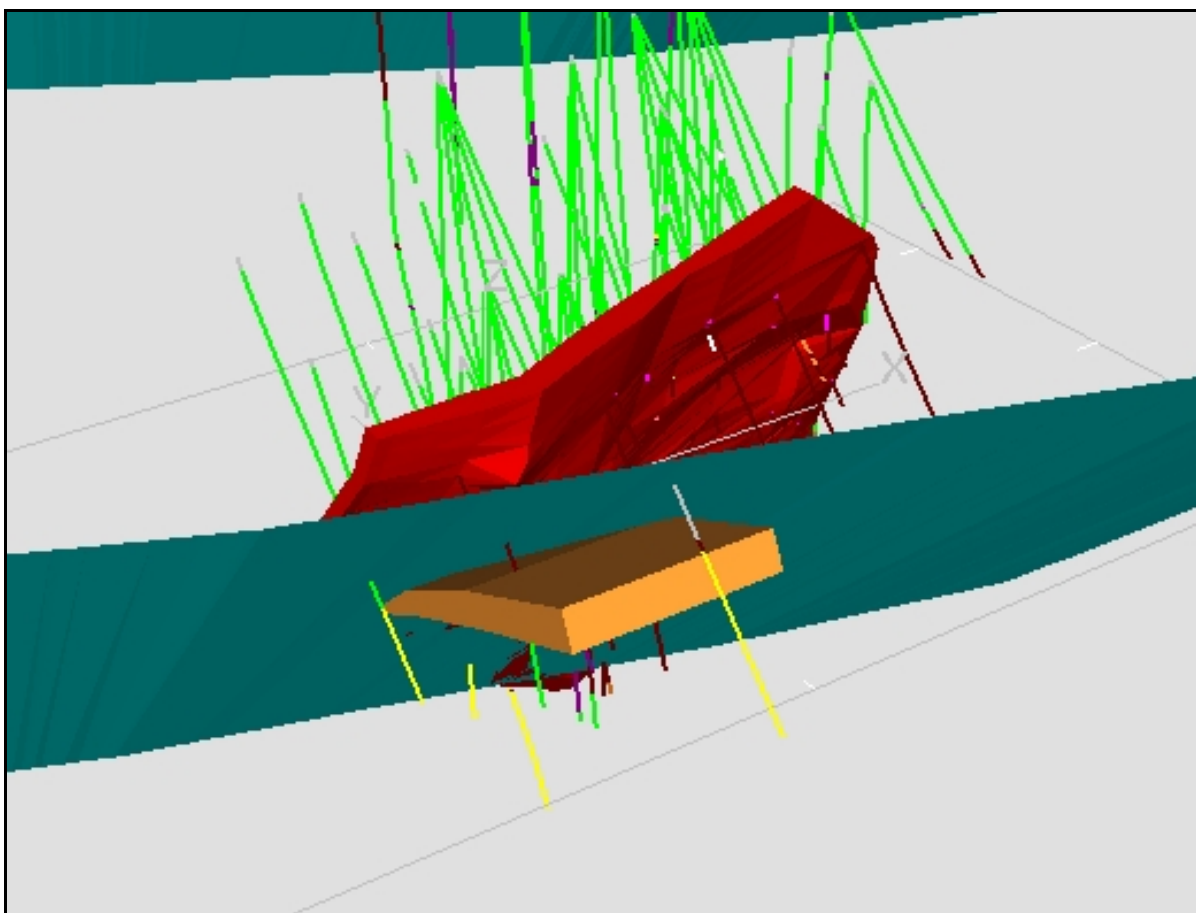


Figure 19-1. True perspective of the mineralized zone (northeast view) illustrating interpreted displacement of the south zone (orange) relative to the Norton Zone (red) along a 107° fault (blue).

Jobin-Bevans and Kelso (2005) presented the first comprehensive and Independent Mineral Resource Estimate completed on the Norton Lake Ni-Cu-Co Deposit. A summary of the Mineral Resource Estimate, calculated to 0.3% Ni and 0.5% Ni cut-offs is presented in Tables 19-1 and 19-2, with total in situ metal contents (0.3% Ni cut-off) in Table 19-3. The Mineral Resource meets the 2000 and current CIM Definition Standards and is compliant with the National Instrument 43-101 (NI 43-101). Drill hole density and the reliability of the drill hole and analytical data were adequate for the Resource Estimate.

Table 19-1. Norton Lake Ni-Cu-Co Deposit Mineral Resource Estimate reported at 0.3% Ni cut-off

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,769,721	0.67	0.61	0.03	0.46
Indicated	488,933	0.67	0.61	0.03	0.47
TOTAL	2,258,654	0.67	0.61	0.03	0.46
Inferred	198,571	0.66	0.59	0.03	0.47



Table 19-2. Norton Lake Ni-Cu-Co Deposit Mineral Resource Estimate reported at 0.5% Ni cut-off

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,456,329	0.73	0.65	0.03	0.49
Indicated	427,041	0.71	0.63	0.03	0.48
TOTAL	1,883,370	0.73	0.65	0.03	0.49
Inferred	160,884	0.71	0.61	0.03	0.47

Table 19-3. In situ metal content of the Norton Lake Ni-Cu-Co Deposit, using 0.3% Ni cut-off.

Category	Tonnes	Ni (lbs)	Cu (lbs)	Co (lbs)	Pd (oz)
Measured	1,769,721	26,259,776	23,814,465	1,243,172	26,284
Indicated	488,933	7,266,556	6,562,805	330,964	7,398
TOTAL	2,258,654	33,526,332	30,377,270	1,574,136	33,682
Inferred	198,571	2,906,224	2,564,708	135,649	2,993

The geological setting and style of sulphide mineralization (i.e. sulphide breccia proximal to basal contact) is similar to the past-producing Thierry Mine near Pickle Lake, Ontario. At the Thierry Mine, an approximately 1,100 metre long and 1,000 metre deep structure hosted several lenses of sulphide that were 5-30 metres thick. In the late 1970s, the Thierry ore bodies were mined to depths of 75 metres (eastern pit) and 240 metres (western pit); a 500 metre shaft was developed in the early 1980s to access high-grade breccia and massive sulphide ores underground. Low copper prices curtailed the underground mining and the mine closed in 1982. CCIC were unable to verify the information on the Thierry Mine, and the mineralization at the Thierry Mine is not necessarily indicative of the mineralization of the Norton Lake Property.

A similar scenario could be envisioned for the Norton Zone, whereby an initial open cast mine could be considered to a depth of 200 metres (Figure 19-2). In consideration of a similar open cast potential for the Norton Zone, CCIC executed an evaluation on blocks occurring within 200 metres of surface, as derived from the Mineral Resource Estimate. Results of this exercise are provided in Table 19-4.

Table 19-4. Near surface portion (<200 m) of Norton Lake Ni-Cu-Co Deposit reported at 0.3% Ni cut-off.

Category	Tonnes	Ni Grade (%)	Cu Grade (%)	Co Grade (%)	Pd Grade (g/t)
Measured	1,248,043	0.66	0.58	0.03	0.48
Indicated	191,955	0.61	0.51	0.03	0.47
TOTAL	1,439,998	0.65	0.57	0.03	0.48
Inferred	82,745	0.63	0.53	0.03	0.49



It is CCIC's professional opinion that, given further delineation drilling and metallurgical work, and subject to a feasibility study, the Norton Zone could be amenable to an initial low capital, low cost, open cast mining operation, which could then potentially be expanded by an underground bulk-mining operation.

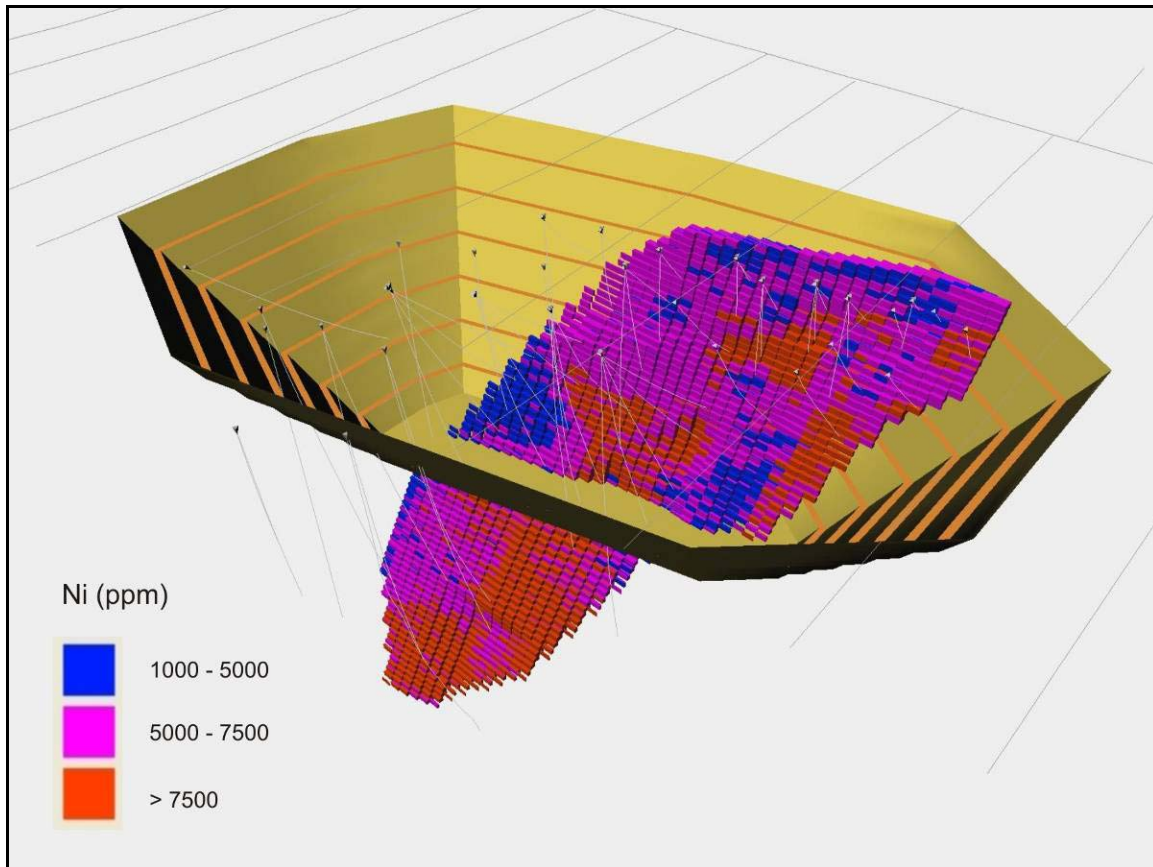


Figure 19-2. True perspective of the mineralized zone (southeast view) illustrating a hypothetical open cast scenario to 200 metres depth with block model.

20.0 RECOMMENDATIONS

The Norton Lake Ni-Cu-Co Deposit offers an excellent opportunity for White Tiger Mining Corp. to establish a massive sulphide deposit associated with a mafic—ultra-mafic intrusion as part of its mineral deposit inventory.

It is the professional opinion of CCIC that the character of the Norton Lake Ni-Cu-Co Deposit, the Mineral Resource Estimate it represents, and the potential for developing new mineral targets and expanding the Mineral Resources are of sufficient merit to justify further exploration on the Property.



CCIC recommend that the following database work be considered:

1. An amalgamated drill hole database should be created, using a software platform such as Microsoft Access. The database should include all available data from previous drilling (irrespective of company or commodity) in the region.
2. Compilation and modelling of the data should be extended to include areas beyond the current Property boundary in order to provide a regional perspective. This should include correlation of regional structures, geology, and geophysics.

CCIC recommend that the following be implemented in future diamond drilling programs and during the drill core logging procedures:

1. To avoid confusion and potential mistakes in the logging of the drill core, one standard of measurement should be adopted (preferably metres). The drill contractor should be instructed to use the same unit of measure on the wooden blocks.
2. Dip and azimuth tests on all future drill holes should utilize a system such as the Reflex EZ-Shot or EZ-Dip instrumentation (www.reflex.se/products.php) in order to control the spatial location of the drill hole.
3. All drill hole collar locations should be measured using a differential GPS system such as those available for purchase or rental from Trimble (www.trimble.com/mgis_gpsrec.shtml).
4. Drill logs should record and summarize all of the necessary drill hole information, generally within the first page header, including drill hole location, bearing, dip, final length, record of dip and/or orientation tests (i.e. acid tests), and drill contractor's name.
5. The mineralized zones should be continuously sampled with minimum 2 metre brackets on either side of the mineralized zone(s) into the hanging wall and footwall.
6. In so far as the ability to utilize diamond drill hole data for future resource estimations, a QA/QC regime should be implemented and consistently followed.
7. Specific gravity measurements of mineralized zones should be taken on a regular basis.

20.1 Recommended Exploration Program

CCIC recommend the following, staged exploration program on the Norton Lake Property:

20.1.1 Phase I

CCIC recommend that a Phase I exploration program include a pulsed electro-magnetic (PEM) downhole survey of previously drilled boreholes because the previous PEM survey conducted by Crone (2005) only included 13 holes, seven of which were not surveyed completely (Z component was missing). Hence, CCIC recommend that all historic drill holes be surveyed (except holes 2, 6, 9, 10, 11, 13, 14 and M because these holes were surveyed completely in 2005). A diamond drilling program is also recommended to complete three holes on each section 250E and 225E for a total of 2385 m. Table 20-2 presents details of the recommended drill holes and Table 20-3 shows the budget for the drilling program.



In addition, it is recommended to characterize physical rock properties (magnetic susceptibility, magnetic remnance, density, resistivity, time-domain IP and chargeability) of the ore zone and host rocks. Constrained inversions of magnetics, EM and gravity should follow the characterization of the rock types.

CCIC recommend that all products be imported in a 3D environment (GoCad) for 3D vectoring and targeting.

Table 20-1. Proposed budget for the Phase I geophysical exploration.

ITEM	PERSONNEL	UNITS	No. UNITS	\$/UNIT	TOTAL
TEM down hole survey (including personnel and equipment)		days	25	\$2,500	\$62,500
Constrained inversions and GoCad 3D integration	Geophysicist	days	10	\$1,100	\$11,000
Camp (incl. set-up, generator, sleeping/cooking/wash tents, food, fuel)		ea			\$60,750
Transportation:					
Travel to Thunder Bay		ea			\$4,000
Float Plane		trips	6	\$1,000	\$6,000
Equipment Rental					
Satellite Phone		month	1	\$375	\$375
Satellite Internet Hub		month	1	\$375	\$375
Reporting	Senior Geophysicist	days	5	\$1,000	\$5,000
			TOTAL PHASE I		\$150,000

Table 20-2. Details of recommended drill holes.

SECTION 250E			
Hole ID	Depth (m)	Dip	Azimuth
28	500	-89	180
29	375	-77	180
30	325	-66	180
SECTION 225E			
Hole ID	Depth (m)	Dip	Azimuth
31	350	-64	180
32	385	-71	180
33	450	-84	180
TOTAL	2385		



Table 20-3. Proposed budget for the Phase I drilling program

ITEM	No. UNITS	\$/UNIT	TOTAL
Drilling	2385	105	\$250,425
Geologist			7,500
Assaying			16,350
Fuel/transport			30,000
Camp operating cost			45,725
TOTAL PHASE II			\$350,000

20.1.2 Phase II

Contingent on positive results from the Phase I exploration program, CCIC recommend that a diamond drilling program be completed on the Norton Lake Property. The recommended drilling program is a *minimum* program whose purpose is:

1. To twin the following U-series holes where sampling gaps have been observed, should the outstanding core remain unavailable:
 - a. Twin drill hole U-4 or target the region between drill holes S and T (CCIC-04, Tables 20-2 and 20-3).
 - b. Drill an intercept of 10 metres down-dip of drill hole U-3.
2. To expand the Mineral Resource immediately along strike and down plunge toward the northeast and toward the southwest, near-surface side of the deposit where there exist some sampling gaps and some poorly defined sulphide lenses that appear to be structurally displaced (Figure 20-1 and 20-2).
3. To upgrade some of the inferred resources to the indicated or measured categories.

Table 20-4. Minimum recommended drilling for Norton Lake Ni-Cu-Co Deposit.

DDH	Priority	Purpose
Expanding Area of Resource		
CCIC-01	High	Define south zone
CCIC-02	High	Define south zone
CCIC-03	High	Define south zone
CCIC-04	High	Define south zone; sample gaps
CCIC-05	High	Define south zone
CCIC-06	High	Increase measured tonnage
CCIC-07	High	Increase measured tonnage
CCIC-08	Medium	Increase measured tonnage
CCIC-09	Low	Test eastern limit of Norton Zone



Table 20-5. Coordinates and collar information for recommended diamond drilling.

DDH	UTM-E	UTM-N	Azimuth	Dip	Depth (m)	Norton Zone	South Zone
CCIC-01	470754	5750021	180	-50	100	30 - 50m	80 - 90m
CCIC-02 (U-14)*	470763	5750097	180	-50	26*	90 - 100m	125 - 130m
CCIC-03 (S)*	470752	5750011	180	-45	56*	25 - 45m	75 - 90m
CCIC-04	470810	5750014	180	-45	100	10 - 20m	80 - 95m
CCIC-05	470707	5750000	180	-55	90	22m	80m
CCIC-06	470764	5750136	180	-65	165	150m	-
CCIC-07	470816	5750148	180	-65	180	165m	-
CCIC-08	470964	5750291	180	-65	300	270m	-
CCIC-09 (NL05-15)*	471066	5750312	180	-90	127*	430m	-

*deepen current hole

Following completion of the next drilling campaign, White Tiger should re-estimate the Mineral Resource and investigate the requirements and costs necessary for performing a preliminary pit optimization and scoping study.

CCIC recommend that White Tiger complete a program of definition drilling and exploration drilling, re-estimate the Mineral Resource, complete preliminary metallurgical studies on the main zone, and investigate the requirements necessary for performing a preliminary pit optimization and open cast to underground mining scoping study.

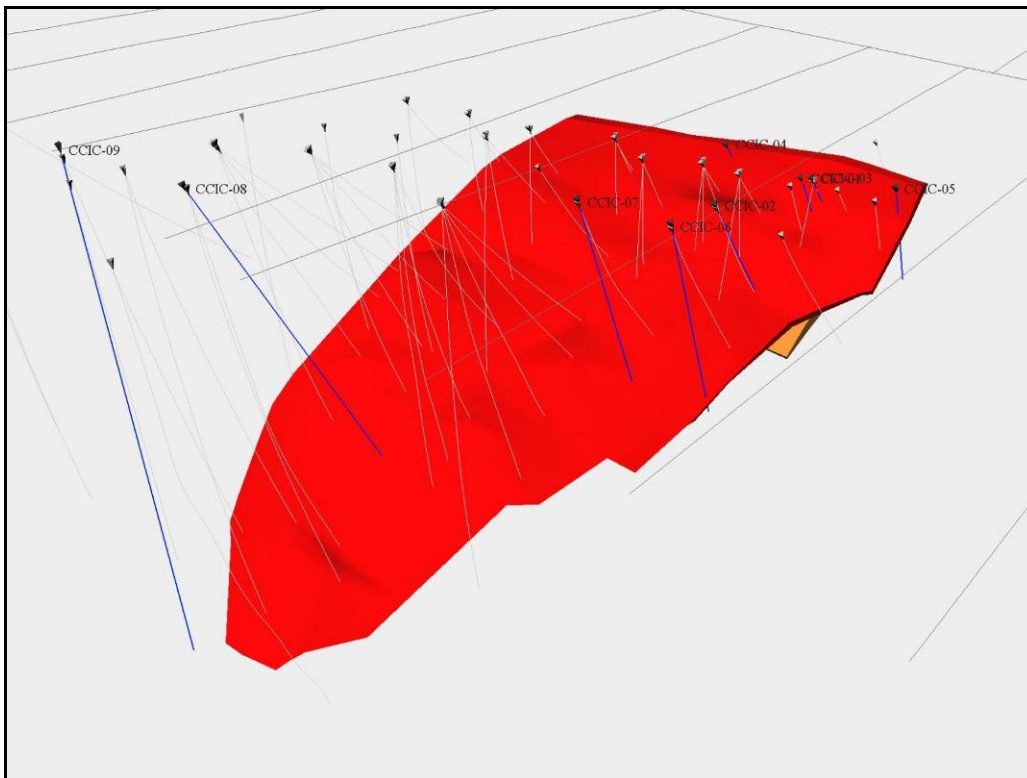




Figure 20-1. True perspective southeast view illustrating minimum recommended drilling.

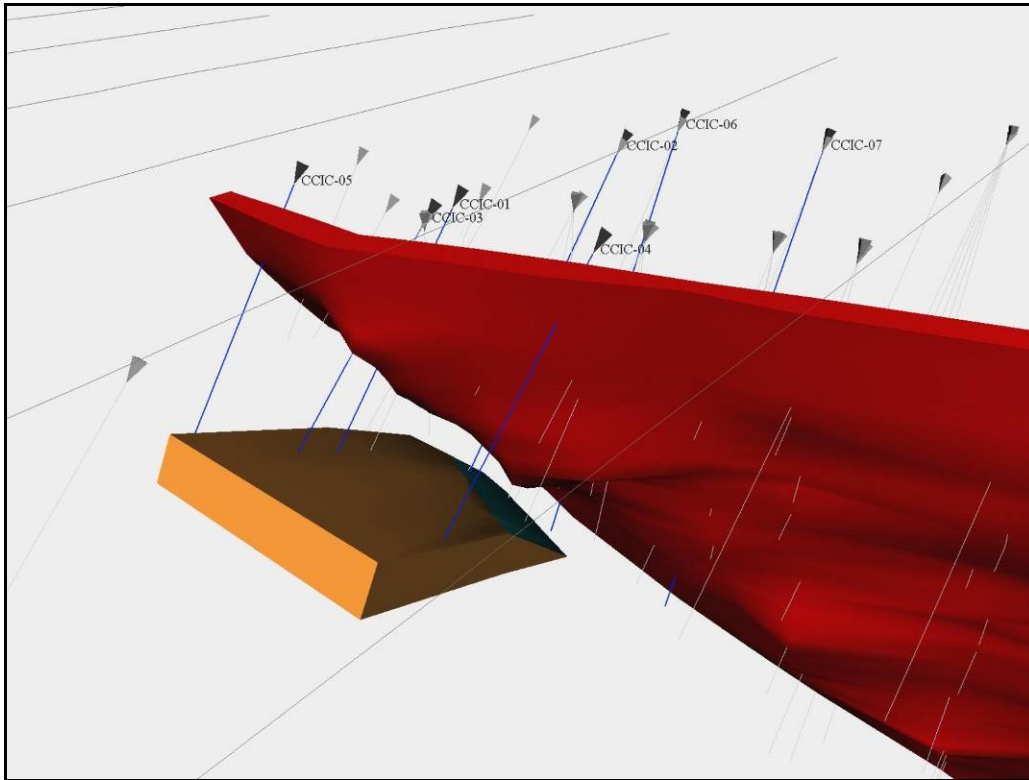


Figure 20-2. True perspective northwest view illustrating possible position of south zone (orange).



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- Johnson, J.R., 2005b. Mineralization and Tectonic Setting of the Norton Lake Region, Uchi Subprovince. Unpublished M.Sc. Thesis, Lakehead University, 171p.
- Mason, J.K. and White, G.D. 1995. Mineral occurrences and prospects in the Fort Hope— Winisk area; Ontario Geological Survey, Open File Report 5926, 225p.
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- Middleton, R.S., 2005. Norton Lake Winter 2004 Diamond Drilling, Thunder Bay Mining Division. For East West Resource Corporation, Canadian Golden Dragon Resources Ltd., and Cascadia International Resources Inc., September 15th, 2004., 13p (plus Maps, Drill Core Logs, Figures, Assay Certificates).
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22.0 STATEMENT OF AUTHORSHIP

This Report titled “Independent Technical Report: Norton Lake Nickel-Copper-Cobalt Deposit” and dated May 1st, 2009 was prepared and signed by the following authors:

A handwritten signature in blue ink, appearing to read 'S. Jobin-Bevans', with a long horizontal flourish extending to the right.

Scott Jobin-Bevans, Ph.D., P.Ge.
Dated May 1st, 2009
Toronto, Ontario

A handwritten signature in blue ink, appearing to read 'R. Middleton', with a long horizontal flourish extending to the right.

Robert S. Middleton, M.Sc., P.Eng.
Dated May 1st, 2009
Vancouver, British Columbia

A handwritten signature in blue ink, appearing to read 'E. Ronacher', with a long horizontal flourish extending to the right.

Elisabeth Ronacher, Ph.D., P.Ge.
Dated May 1st, 2009
Sudbury, Ontario

A handwritten signature in blue ink, appearing to read 'Jenna McKenzie', with a long horizontal flourish extending to the right.

Jenna McKenzie, H.B.Sc., P.Ge.
Dated May 1st, 2009
Toronto, Ontario



APPENDIX 1

Certificates of Authors





Caracle Creek International Consulting Inc.

Scott Jobin-Bevans
34 King Street, 9th Floor
Toronto, Ontario
Canada, M5C 2X8

Telephone: 416-368 1801, Fax: 416-368 9794
Email: scott.jb@cciconline.ca

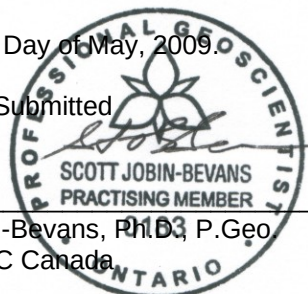
CERTIFICATE OF AUTHOR

I, Scott Jobin-Bevans, P.Geo. (#0183), do hereby certify that:

1. I am a Director of Caracle Creek International Consulting Inc. (CCIC)
2. I hold the following academic qualifications:
B.Sc. (Hons) Geology (1995) and M.Sc. Geology (1997), University of Manitoba
Ph.D. Geology (2004), University of Western Ontario
3. I am a registered Professional Geologist with the Association of Professional Geologists of Ontario (Member #0183), and a member in good standing of the Society of Economic Geologists, the Prospectors and Developers Association of Canada, and the Canadian Institute of Mining, Metallurgy and Petroleum.
4. I have worked in the minerals industry for more than 20 years and as a Geologist for more than 13 years.
5. I have no prior involvement with the mineral Property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Independent Technical Report that is not reflected in the Independent Technical Report, the omission to disclose which makes the Independent Technical Report misleading.
7. I am independent of the party involved in the transaction for which the Independent Technical Report is required, other than providing consulting services.
8. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements as a Qualified Person for the purposes of NI 43-101.
9. I am jointly responsible for the preparation of the Independent Technical Report titled "Independent Technical Report, Norton Lake Nickel-Copper-Cobalt Deposit" and dated May 1st, 2009 and prepared for White Tiger Mining Corp.
10. I examined diamond drill core and technical information at the Exploration Office of East West Resources in Thunder Bay, Ontario on October 19th and 20th, 2005.
11. I have read NI-43-101 and Form 43-101F1, and the Independent Technical Report has been prepared in compliance with that Instrument and Form.
12. I consent to the filing of the Independent Technical Report with any stock exchange, securities regulatory authority, and other regulatory authority, and any publication by them, including electronic publication in the public company files on their websites accessible by the public, of the Independent Technical Report.

Dated this 1st Day of May, 2009.

Respectfully Submitted



L. Scott Jobin-Bevans, P.Geo. (#0183)
Director, CCIC Canada





Robert S. Middleton
1158 Russell Street
Thunder Bay, ON P7B 5N2
e-mail: rsmiddleton@tbaytel.net

CERTIFICATE OF AUTHOR

I, Robert S. Middleton, P.Eng am a graduate of the Provincial Institute of Mining (Haileybury Ontario), 1965 – Mining Diploma; Michigan Technical University 1968, B.S. Applied Geophysics, 1969 M.S. Applied Geophysics.
Attended U of T 1970 – Ph.D. Geological Program.

1. I am a Professional Engineer (Ontario) (APEO) # 31595010 and have been a member of the Professional Engineers of Ontario since 1969.
2. I am a fellow of the Geological Association of Canada.
3. I am a member of the Canadian Institute of Mining and Metallurgy since 1970.
4. I am a member of the Prospectors and Developers Association of Canada.
5. I am a member of the Ontario Prospectors Association.
6. I am a member of the Society of Economic Geologists.
7. I am a past member of the Society of Exploration Geophysicists, European Association of Exploration Geophysicists, Society of Exploration Geochemists, Institute of Mining and Metallurgy (IMM-UK), Society of Geology Applied to Ore Deposits (Europe).
8. I was employed as a Geophysicist for the Ontario Department of Mines in 1968 – 1971 at Queens Park and in that capacity I reviewed all exploration work reports done in Ontario and amended and reviewed the Mining Act.
9. I was Manager of Ground and Airborne Geophysics for Barringer Research 1971 – 1974. During that time I planned airborne EM – magnetic surveys of Canada, USA, Mexico, South Africa, Sweden, UK and Korea.
10. In 1974 – 1980 I was geophysicist, V.P. and director of Rosario Resources and worked in Central America on skarn and vein deposits. In addition, I carried out numerous mine evaluations in North America and Feasibility Studies.
11. In 1981 – 1983 I was Exploration Manager for Newmont Exploration (Eastern Canada) and carried out numerous property evaluations.
12. I have been consulting for various junior and major companies world wide since 1983 to present and have done evaluations on Lac de Gras diamond projects in the NWT, Kilimbe Cu, Co, and Ni Mine in Uganda, gold deposits in Kyrgyzstan, Siberia diamond mines, and a molybdenum mine in South Korea.





13. I am not a director or officer of the vendor Cascadia International Resources, nor the purchaser White Tiger Mining Corp nor do I own any shares of these companies. I am not a director or officer of neither East West Resource Corporation or Trillium North Minerals who hold a minority interest in the property.
14. I have personally visited the Norton Lake Property in March and April, 2009 where I selected sites for drilling in the upcoming proposed drill program. I have been present on the property during all the previous phases of work carried out in 2002, 2003 , 2004 , 2005 and 2007 and did the initial sampling of the 1981 drill core and the due diligence in 2001. There have been no material changes on the property since the geophysical surveys completed in 2007.

Dated this 1st Day of May, 2009.

Robert S. Middleton, M.Sc., P.Eng.





Caracle Creek International Consulting Inc.

Elisabeth Ronacher

25 Froid Road
Sudbury, Ontario, Canada, P3C 4Y9
Telephone: 705-671-1801
Email: eronacher@cciconline.ca

CERTIFICATE OF AUTHOR

I, Elisabeth Ronacher, do hereby certify that:

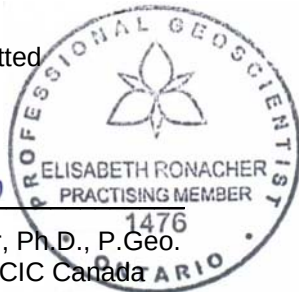
1. I am a Project Manager for the geological consulting firm of Caracle Creek International Consulting Inc. (CCIC).
2. I hold the following academic qualifications: M.Sc. Geology (1997), University of Vienna, Vienna, Austria; Ph.D. Geology (2002), University of Alberta, Edmonton, Canada.
3. I am a member in good standing of the Association of Professional Geologists of Ontario (APGO), member # 1476.
4. I have worked as a geologist for 10 years in academia and industry.
5. I have had no prior involvement with the Property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I am independent of the party involved in the transaction for which the Report is required, other than providing consulting services.
8. I have read the NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
9. I am jointly responsible for the preparation of the Report titled "Independent Technical Report: Norton Lake Copper-Nickel-Cobalt Deposit", dated May 1st, 2009 and prepared for White Tiger Mining Corp.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Dated this 1st Day of May, 2009.

Respectfully Submitted

E. Ronacher

Elisabeth Ronacher, Ph.D., P. Geo.
Project Manager, CCIC Canada





Caracle Creek International Consulting Inc.

Jenna McKenzie

34 King St. East, 9th Floor
Toronto, Ontario, Canada, M5C 2X8
Telephone: 416-368-1801
Email: jmckenzie@cciconline.ca

CERTIFICATE OF AUTHOR

I, Jenna McKenzie, do hereby certify that:

1. I am a Project Geophysicist for the geological consulting firm of Caracle Creek International Consulting Inc. Canada (CCIC).
2. I hold the following academic qualifications: Hons.B.Sc. Physics: Geophysics (2002) University of Toronto.
3. I am a member in good standing of the Association of Professional Geoscientists of Ontario (Member #1653). I am a member in good standing of the Canadian Exploration Geophysical Society (KEGS) and the Society of Exploration Geophysicists (SEG).
4. I have worked as a geophysicist for seven years in industry and have worked on a variety of properties including diamond, oil-industry seismic processing, gold, potash, and Ni-Cu-PGE.
5. I have had no prior involvement with the Property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I am independent of the parties involved in the transaction for which this report is required, other than providing consulting services.
8. I have read NI-43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
9. I am jointly responsible for the preparation of the Technical Report titled "Independent Technical Report: Norton Lake Copper-Nickel-Cobalt Deposit", dated May 1st, 2009 and prepared for White Tiger Mining Corp.
10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public.

Dated this 1st Day of May, 2009.

Respectfully Submitted

Jenna McKenzie, Hons.BSc., P.Geo.
Project Geophysicist, CCIC Canada





APPENDIX 2

Legal Agreements



ASSIGNMENT AGREEMENT

THIS AGREEMENT is dated for reference January 21, 2009,

BETWEEN:

CASCADIA INTERNATIONAL RESOURCES INC of Suite
1530- 715 5th Avenue SW, Calgary, Alberta, T2P 2X6

(**"Cascadia"**)

AND:

WHITE TIGER MINING CORP., of 2489 Bellevue Avenue,
West Vancouver, British Columbia, V7V 1E1

(**"White Tiger"**)

WHEREAS:

A. Pursuant to a Joint Venture Agreement (the **"JV Agreement"**) dated December 15, 2006 (an executed copy of which is attached as Schedule "B" to this Agreement) among Cascadia, East West Resource Corporation (**"East West"**) and Trillium North Minerals Ltd., formerly known as Canadian Golden Dragon Resources Ltd. (**"Trillium"**) (East West and Trillium are collectively referred to as the **"JV Partners"**), Cascadia has a 51% undivided interest in the Property as such term is defined in the JV Agreement on the terms and conditions set out in the JV Agreement;

B. Cascadia has agreed to assign its interest in the JV Agreement to White Tiger in return for the payment by White Tiger of the aggregate purchase price of \$300,000 (the **"Purchase Price"**), on the terms and conditions set out in this Agreement.

THEREFORE in consideration of the mutual covenants and agreements in this Agreement, the parties agree as follows:

1. DEFINITIONS AND INTERPRETATION

1.1 For the purposes of this Agreement:

- (a) "Assignment" has the meaning ascribed to it in subsection 4.1;
- (b) "Exchange" means the TSX Venture Exchange;
- (c) "JV Agreement" has the meaning ascribed to it in recital A of this Agreement;
- (d) "Property" has the meaning ascribed to that term in the JV Agreement and as more particularly described in Schedule "A" to this Agreement.

1.2 For the purposes of this Agreement, except as otherwise expressly provided or unless the context otherwise requires:

- (a) "this Agreement" means this Assignment Agreement and all Schedules attached hereto;
- (b) any reference in this Agreement to a designated "section", "subsection", "Schedule", "paragraph" or other subdivision refers to the designated section, schedule, paragraph or other subdivision of this Agreement;
- (c) the words "herein" and "hereunder" and other words of similar import refer to this Agreement as a whole and not to any particular section or other subdivision of this Agreement;
- (d) the word "including", when following any general statement, term or matter, is not to be construed to limit such general statement, term or matter to the specific items or matters set forth immediately following such word or to similar items or matters, whether or not non-limiting language (such as "without limitation" or "but not limited to" or words of similar import) is used with reference thereto but rather refers to all other items or matters that could reasonably fall within the broadest possible scope of such general statement, term or matter;
- (e) any reference to "party" or "parties" means White Tiger, Cascadia, or both, as the context requires;
- (f) the headings in this Agreement are for convenience of reference only and do not affect the interpretation of this Agreement;
- (g) capitalized terms not otherwise defined herein will have the same meaning given to those terms in the JV Agreement;
- (h) words importing the masculine gender include the feminine or neuter gender and words in the singular include the plural, and vice versa; and
- (i) all references to currency refer to Canadian dollars.

1.3 The following are the Schedules to this Agreement, and are incorporated into this Agreement by reference:

Schedule "A":	The Property
Schedule "B":	Copy of executed JV Agreement

1.4 Wherever any term or condition, expressed or implied, in any of the Schedules conflicts or is at variance with any term or conditions of this Agreement, the terms or conditions of this Agreement will prevail.

2. REPRESENTATIONS AND WARRANTIES OF CASCADIA

2.1 Cascadia represents and warrants to White Tiger that:

- (a) it is a valid and subsisting corporation duly incorporated and in good standing under the laws of the Province of Alberta, and Cascadia has the full right, power, capacity and authority to enter into, execute and deliver this Agreement;
- (b) it is the beneficial owner of a 51% working interest in the Property and, to the best of its knowledge, East West and Trillium are the beneficial owners of a 49% working interest in the Property;
- (c) it has the full right, power, capacity and authority to enter into, execute and deliver this Agreement and to be bound by its terms and this Agreement has been duly authorized by all necessary corporate action on the part of Cascadia;
- (d) it has duly observed and performed all of its obligations as required to date under the JV Agreement and that the JV Agreement is in good standing as of the date hereof and will remain in good standing up to the date of the closing of the Assignment;
- (e) it has sought, and obtained, the consent of the JV Partners to the assignment of its interest in the JV Agreement to White Tiger and the JV Partners have specifically consented to such assignment;
- (f) there is no adverse claim or challenge against or to the ownership of or title to any part of the Property and, to the best of the knowledge of Cascadia there is no basis for such adverse claim or challenge which may affect the Property;
- (g) the consummation of the transactions contemplated by this Agreement does not and will not conflict with, constitute a default under, result in a breach of, entitle any person or company to a right of termination under, or result in the creation or imposition of any lien, encumbrance or restriction of any nature whatsoever upon or against the property or assets of Cascadia, under its constating documents, any contract, agreement, indenture or other instrument to which Cascadia is a party or by which it is bound, any law, judgment, order, writ, injunction or decree of any court, administrative agency or other tribunal or any regulation of any governmental authority;
- (h) it is not a party to any actions, suits or proceedings which could materially affect its business or financial condition, and to the best of Cascadia's knowledge no such actions, suits or proceedings are contemplated or have been threatened which have not been disclosed to White Tiger; and
- (i) there are no actual or pending proceedings for, and Cascadia is unaware of any basis for, the institution of any proceedings leading to the placing of the Company in bankruptcy or subject to any other laws governing the affairs of insolvent

parties and the Property does not represent all or substantially all of the Company's corporate undertaking.

2.2 The representations and warranties contained in paragraph 2.1 are provided for the exclusive benefit of White Tiger, and a breach of any one or more representations or warranties may be waived by White Tiger in whole or in part at any time without prejudice to its rights in respect of any other breach of the same or any other representation or warranty, and the representations and warranties contained in paragraph 2.1 will survive the execution and delivery of this Agreement.

3. REPRESENTATIONS AND WARRANTIES OF WHITE TIGER

3.1 White Tiger represents and warrants to Cascadia that:

- (a) it is a valid and subsisting corporation duly incorporated and in good standing under the laws of the Province of British Columbia;
- (b) it has the full right, power, capacity and authority to enter into, execute and deliver this Agreement and to be bound by its terms;
- (c) the consummation of the transactions contemplated by this Agreement does not and will not conflict with, constitute a default under, result in a breach of, entitle any person or company to a right of termination under, or result in the creation or imposition of any lien, encumbrance or restriction of any nature whatsoever upon or against the property or assets of White Tiger, under its constating documents, any contract, agreement, indenture or other instrument to which White Tiger is a party or by which it is bound, any law, judgment, order, writ, injunction or decree of any court, administrative agency or other tribunal or any regulation of any governmental authority;
- (d) it is not a party to any actions, suits or proceedings which would materially affect its business or financial condition, and to the best of White Tiger's knowledge no such actions, suits or proceedings are contemplated or have been threatened which have not been disclosed to Cascadia.

3.2 The representations and warranties contained in paragraph 3.1 are provided for the exclusive benefit of Cascadia, and a breach of any one or more representations or warranties may be waived by Cascadia in whole or in part at any time without prejudice to its rights in respect of any other breach of the same or any other representation or warranty, and the representations and warranties contained in paragraph 3.1 will survive the execution and delivery of this Agreement.

4. ASSIGNMENT OF INTEREST IN JV AGREEMENT

4.1 In consideration for the Purchase Price, Cascadia assigns to White Tiger (the "Assignment") all of its rights, obligations and interest in and to the JV Agreement made

between Cascadia and the JV Partners, including all rights of action or other rights accruing to Cascadia, or which might after the date of this Agreement accrue to Cascadia under the JV Agreement.

4.2 Subject to the terms of this Agreement, White Tiger acknowledges and agrees with Cascadia that White Tiger will take the place of Cascadia as a party to the JV Agreement.

4.3 Cascadia further agrees to transfer its 51% working interest in the Property to Cascadia.

4.4 In consideration for the Assignment, White Tiger will pay to Cascadia the Purchase Price.

5. GOVERNING LAW

5.1 This Agreement is construed and in all respects governed by the laws of the Province of British Columbia and the laws of Canada applicable in British Columbia.

6. NOTICES

6.1 All notices, payments and other required communications and deliveries to the parties hereto will be in writing, and will be addressed to the parties as follows or at such other address as the parties may specify from time to time:

(a) to Cascadia:
#1530, 715-5th Avenue S.W.
Calgary, AB T2P 2X6
Attention: Jim Evaskevich
Facsimile: (403) 262-8284

(b) to White Tiger:
2489 Bellevue Avenue
West Vancouver, B.C. V7V 1E1
Attention: Ron Coombes
Facsimile: (604) 922-2037

Notices must be delivered, sent by telecopier or mailed by pre-paid post and addressed to the party to which notice is to be given. If notice is sent by telecopier or is delivered, it will be deemed to have been given and received at the time of transmission or delivery. If notice is mailed, it will be deemed to have been received five business days following the date of the mailing of the notice. If there is an interruption in normal mail service due to strike, labour unrest or other cause at or prior to the time a notice is mailed the notice will be sent by or telecopier or will be delivered.

6.2 Either party hereto may at any time and from time to time notify the other party in writing of a change of address and the new address to which a notice will be given thereafter until further change.

7. ENTIRE AGREEMENT

7.1 This Agreement constitutes the entire agreement between Cascadia and White Tiger and will supersede and replace any other agreement or arrangement, whether oral or in writing, previously existing between the parties with respect to the subject matter of this Agreement.

8. REGULATORY APPROVALS

8.1 This Agreement is subject to White Tiger obtaining any required regulatory approvals, including the approval of the Exchange, and the parties agree to assist each other, where required, to obtain such regulatory approvals.

9. CONSENT OR WAIVER

9.1 No consent or waiver, express or implied, by either party hereto in respect of any breach or default by the other party in the performance by such other party of its obligations under this Agreement will be deemed or construed to be a consent to or a waiver or any other breach or default.

10. FURTHER ASSURANCES

10.1 The parties will promptly execute, or cause to be executed, all bills of sale, transfers, documents, conveyances and other instruments of further assurance which may be reasonably necessary or advisable to carry out fully the intent and purpose of this Agreement or to record wherever appropriate the respective interests from time to time of the parties hereto in and to the Property.

11. SEVERABILITY

11.1 If any provision of this Agreement is or will become illegal, unenforceable or invalid for any reason whatsoever, such illegal, unenforceable or invalid provisions will be severable from the remainder of this Agreement and will not affect the legality, enforceability or validity of the remaining provisions of this Agreement.

12. ENUREMENT

12.1 This Agreement will enure to the benefit of and be binding upon the parties hereto and their respective successors and assigns.

13. AMENDMENTS

13.1 This Agreement may only be amended in writing with the mutual consent of all parties.

14. TIME

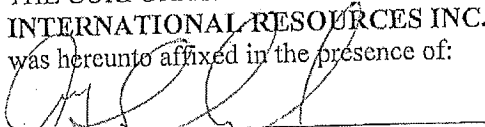
14.1 Time will be the essence of this Agreement and will be calculated in accordance with the *Interpretation Act* (British Columbia).

15. COUNTERPARTS

15.1 This Agreement may be executed in any number of counterparts and by facsimile transmission with the same effect as if all parties hereto had signed the same document. All counterparts will be construed together and constitute one and the same agreement.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first above written.

THE CORPORATE SEAL of CASCADIA
INTERNATIONAL RESOURCES INC.
was hereunto affixed in the presence of:

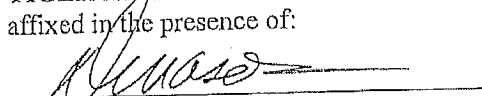


Authorized Signatory

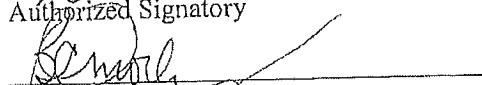


Authorized Signatory

THE CORPORATE SEAL of WHITE
TIGER MINING CORP. was hereunto
affixed in the presence of:



Authorized Signatory



Authorized Signatory

SCHEDULE "A"

to the Assignment Agreement dated January 21, 2009 between

**CASCADIA INTERNATIONAL RESOURCES INC. AND
WHITE TIGER MINING CORP.**

**THE PROPERTY
DESCRIPTION OF THE PROPERTY**

(attached)

2008 Annual Audit Schedules
Cascadia International Resources Inc.
Norton Lake Property

Township/Area	G-Plan #	Claim #	Recording Date	Expiry Date	Status	Recorded Holder	Client #	%	Area (ha)	Area (un)	Work Required	Total Applied	Total Reserve
1 NORTON LAKE	G-0355	1187699	17-Sep-01	17-Sep-09 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$38,400.00	\$0.00
2 NORTON LAKE	G-0355	1187705	17-Sep-01	17-Sep-09 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$38,400.00	\$0.00
3 NORTON LAKE	G-0355	1187709	17-Sep-01	17-Sep-09 A		Tillium North Minerals Ltd.	137526	100%	256	16	\$6,400.00	\$38,400.00	\$0.00
4 NORTON LAKE	G-0355	1187710	17-Sep-01	17-Sep-09 A		Tillium North Minerals Ltd.	137526	100%	128	8	\$3,200.00	\$19,200.00	\$0.00
5 NORTON LAKE	G-0355	1187697	17-Sep-01	17-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$9,379.00
6 NORTON LAKE	G-0355	1187698	17-Sep-01	17-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
7 NORTON LAKE	G-0355	1187700	17-Sep-01	17-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
8 NORTON LAKE	G-0355	1187701	17-Sep-01	17-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
9 NORTON LAKE	G-0355	1187702	17-Sep-01	17-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
10 NORTON LAKE	G-0355	1187703	17-Sep-01	17-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
11 NORTON LAKE	G-0355	1187706	17-Sep-01	17-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
12 NORTON LAKE	G-0355	1192791	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$10,000.00
13 EAST OF NORTON LAKE	G-0237	1192792	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
14 EAST OF NORTON LAKE	G-0237	1192793	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$10,000.00
15 EAST OF NORTON LAKE	G-0237	1192794	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$157.00
16 NORTON LAKE	G-0355	1192795	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$10,000.00
17 EAST OF NORTON LAKE	G-0237	1192796	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
18 EAST OF NORTON LAKE	G-0237	1192797	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
19 EAST OF NORTON LAKE	G-0237	1192798	20-Sep-01	20-Sep-10 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$44,800.00	\$0.00
20 NORTON LAKE	G-0355	1187704	17-Sep-01	17-Sep-11 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$51,200.00	\$0.00
21 NORTON LAKE	G-0355	1187695	24-Sep-01	24-Sep-11 A		East West Resource Corporation	128645	100%	160	10	\$1,600.00	\$34,400.00	\$0.00
22 NORTON LAKE	G-0355	1187696	24-Sep-01	24-Sep-11 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$51,200.00	\$69.00
23 NORTON LAKE	G-0355	1187708	24-Sep-01	24-Sep-12 A		East West Resource Corporation	128645	100%	256	16	\$6,400.00	\$57,600.00	\$0.00
24 NORTON LAKE	G-0355	1187707	28-Nov-00	28-Nov-12 A		East West Resource Corporation	128645	100%	240	15	\$6,000.00	\$60,000.00	\$1,348,847.00

Township/Area	G-Plan#	Claim	Recording Date	Expiry Date	Status	Recorded Holder	Client#	%	Area (ha)	Area (un)	Work Required	Total Applied	Total Reserve
26 EAST OF NORTON LAKE		4221781	13-Aug-07	13-Aug-10	A	Cascadia International Res. Inc.	402165	100%			\$6,400.00	\$6,400.00	\$0.00
27 EAST OF NOTRON LAKE		4221782	13-Aug-07	13-Aug-10	A	Cascadia International Res. Inc.	402165	100%			\$6,400.00	\$6,400.00	\$0.00
28 EAST OF NORTON LAKE		4221783	13-Aug-07	13-Aug-10	A	Cascadia International Res. Inc.	402165	100%			\$6,400.00	\$6,400.00	\$0.00
29 EAST OF NORTON LAKE		4221784	13-Aug-07	13-Aug-10	A	Cascadia International Res. Inc.	402165	100%			\$3,200.00	\$6,400.00	\$0.00
30 EAST OF NORTON LAKE		4221785	13-Aug-07	13-Aug-10	A	Cascadia International Res. Inc.	402165	100%			\$3,200.00	\$6,400.00	\$0.00
31 EAST OF NORTON LAKE		4221786	13-Aug-07	13-Aug-10	A	Cascadia International Res. Inc.	402165	100%			\$4,800.00	\$6,400.00	\$0.00
32 EAST OF NORTON LAKE		4221787	13-Aug-07	13-Aug-10	A	Cascadia International Res. Inc.	402165	100%			\$185,200.00	\$1,156,800.00	\$1,408,452.00

SCHEDULE "B"

to the Assignment Agreement dated January 21, 2009 between

**CASCADIA INTERNATIONAL RESOURCES INC. AND
WHITE TIGER MINING CORP.**

JV AGREEMENT

(attached)

NORTON LAKE PROPERTY

JOINT VENTURE AGREEMENT

CASCADIA INTERNATIONAL RESOURCES INC.

EAST WEST RESOURCE CORPORATION

CANADIAN GOLDEN DRAGON RESOURCES LTD.

December 15, 2006

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SCHEDULES:

Schedule A	Accounting Procedure
Schedule B	Net Proceeds of Production
Schedule C	Norton West Property Description
Schedule D	Norton East Property Description

THIS AGREEMENT made the 15th day of December, 2006

AMONG:

CASCADIA INTERNATIONAL RESOURCES INC., a company duly incorporated under the laws of Alberta and having its head office at Suite 1530, 715 – 5th Avenue, Calgary, Alberta T2P 2X6

(“**Cascadia**”)

AND:

EAST WEST RESOURCE CORPORATION, a company duly incorporated under the laws of the Province of Ontario and having its head office at 1204 Roland Street, Thunder Bay, Ontario P7B 5M4

(“**East West**”)

AND:

CANADIAN GOLDEN DRAGON RESOURCES LTD., a company duly incorporated under the laws of the Province of British Columbia and having its head office at Suite 402, 905 West Pender Street, Vancouver, BC V6C 1L6

(“**Golden Dragon**”)

WHEREAS:

- A. East West has entered into a property option agreement dated July 20, 2001 with R. Bruce Durham and R. Duess (the “**Durham Property**”) whereby East West can earn a 100% interest in the property by making certain cash payments, and issuing shares (the “**Durham Agreement**”);
- B. East West owns claims that are contiguous to the Durham Property (the “**Norton West Property**”);
- C. Golden Dragon owns claims (the “**Norton East Property**”) that are contiguous and to the east of the Norton West Property;

- D. East West and Golden Dragon have entered into an agreement dated July 18, 2003, effective February 1, 2003 whereby Golden Dragon transferred a 20% interest in the Norton East Property to East West and received a 20% interest in the Norton West Property from East West (hereinafter, collectively referred to as the **"Norton Lake Project"**);
- E. Cascadia, East West and Golden Dragon have entered into an agreement dated October 20, 2003 whereby Cascadia can earn a 51% interest in the Norton Lake Project by spending \$1,500,000 on or before November 1, 2010 and at Cascadia's option completion of a feasibility study and agreeing to finance the property to production (the **"Norton Lake Agreement"**);and
- F. Cascadia was obligated under the agreement dated October 20, 2003 to make options payments over the term of seven (7) years totaling \$150,000 (the **"Option Payments"**) to be divided equally between the optionors;
- G. Cascadia, East West and Golden Dragon have agreed to form a joint venture agreement on the Norton West Property, Norton East Property, pursuant to the Underlying Agreement.
- H. Cascadia has spent \$1,500,000 on the Norton Lake Project and has expedited payment of all option payments totaling \$150,000;
- I. East West, Golden Dragon and Cascadia desire to enter into this joint venture agreement to govern the Joint Operations (as herein defined) on the Norton West Property, and the Norton East Property (hereinafter, collectively referred to as the **"Property"**).

NOW THEREFORE THIS AGREEMENT WITNESSETH that for good and valuable consideration (the receipt and sufficiency of which is hereby acknowledged by the parties), the parties hereby agree as follows:

1.0 **INTERPRETATION**

1.1 In this Agreement the following words, phrases and expressions shall have the following meanings:

"Accounting Procedure" means the procedure attached to this Agreement as Schedule A.

"Affiliate" shall have the meaning attributed to it in the *Canada Business Corporations Act*, as amended.

"Assets" means all tangible and intangible goods, chattels, improvements or other items including, without limiting generality, land, buildings, and equipment but excluding the Property, acquired for or made to the Property under this Agreement in connection with the Mining Operations.

"Completion Date" means the date determined by the Management Committee on which it is demonstrated to the satisfaction of the Management Committee that the preparing and equipping of the Mine is complete and is the date on which commercial production commences.

"Construction" means every kind of work carried out during the Construction Period by the Operator in accordance with the Feasibility Report and Production Notice related thereto, as approved by the Management Committee.

"Construction Period" means, unless the Production Notice is subsequently withdrawn, the period beginning on the date a Production Notice is given and ending on the Completion Date.

"Costs" means, except as to Prior Exploration Costs, all items of outlay and expense whatsoever, direct or indirect, with respect to Mining Operations, recorded by the Operator in accordance with this Agreement and shall include all obligations and liabilities incurred or to be incurred with respect to the protection of the environment such as future decommissioning, reclamation and long-term care and monitoring, even if not then due and payable so long as the amounts can be estimated with reasonable accuracy, and whether or not a mine reclamation trust fund has been established. Without limiting generality, the following categories of Costs shall have the following meanings:

- (a) **"Construction Costs"** means those Costs recorded by the Operator during the Construction Period, including, without limiting generality, the Operator's fee contemplated in Section 11.0;
- (b) **"Exploration Costs"** means those Costs recorded by the Operator during the Exploration Period, including, without limiting generality, the Operator's fee contemplated in Section 11.0;
- (c) **"Mine Costs"** means Construction Costs and Operating Costs;
- (d) **"Operating Costs"** means those Costs recorded by the Operator subsequent to the Completion Date, including, without limiting generality, the Operator's fee contemplated in Section 11.0; and
- (e) **"Prior Exploration Costs"** means the deemed Expenditures of the parties under Section 7.9.

"Durham Agreement" means that agreement dated July 20, 2001 between R. Bruce Durham and R. Deuss and East West Resources Corporation

"Exploration Period" means the period beginning the Operative Date and ending the date a Production Notice is given and Construction Costs are fully committed.

"Feasibility Report" means a detailed report, in form and substance sufficient for presentation to arm's length institutional lenders considering project financing, showing the feasibility of placing any part of the Property into commercial production as a Mine and shall include a reasonable assessment of the various categories of ore reserves and their amenability to metallurgical treatment, a complete description of the work, equipment and supplies required to bring such part of the Property into commercial production and the estimated cost thereof, a description of the mining methods to be employed and a financial appraisal of the proposed operations and including at least the following:

- (a) a description of that part of the Property to be covered by the proposed Mine;
- (b) the estimated recoverable reserves of Minerals and the estimated composition and content thereof;

- (c) the proposed procedure for development, mining and production;
- (d) results of ore amenability treatment tests (if any);
- (e) the nature and extent of the facilities proposed to be acquired, which may include mill facilities if the size, extent and location of the ore body makes such mill facilities feasible, in which event the study shall also include a preliminary design for such mill;
- (f) the total costs, including capital budget, which are reasonably required to purchase, construct and install all structures, machinery and equipment required for the proposed Mine, including a schedule of timing of such requirements;
- (g) all environmental impact studies and costs of implementation;
- (h) the period in which it is proposed the Property shall be brought to commercial production; and
- (i) such other data and information as are reasonably necessary to substantiate the existence of an ore deposit of sufficient size and grade to justify development of a mine, taking into account all relevant business, tax and other economic considerations including a cost comparison between purchasing or leasing and renting of facilities and equipment required for the operation of the Property as a Mine.

"Feasibility Report Date" means the date on which the Operator, or any other party or parties pursuant to Section 8.2 hereof, delivers a Feasibility Report to the Management Committee that is in compliance with National Instrument 43-101.

"Interest" means an undivided beneficial percentage interest in the Property, the Assets and any Mine, calculated, during the Exploration Period, according to Section 7.0 and subsequent to the Exploration Period according to Section 10.0.

"Joint Operation" shall have the meaning attributed to it in Section 2.1.

"Management Committee" means the committee established pursuant to Section 4.0.

"Mine" means the workings established and Assets acquired, including, without limiting generality, development headings, plant and concentrator installations, infrastructure, housing, airport and other facilities in order to bring the Property into commercial production in accordance with the Production Notice.

"Minerals" means any and all ores (and concentrates derived therefrom) and minerals, precious and base, metallic and nonmetallic, in, on or under the Property which may lawfully be explored for, mined and sold.

"Mining Operations" means every kind of work done by the Operator:

- (a) on or in respect of the Property in accordance with a Program or Production Notice or Operating Plan; or
- (b) if not provided for in a Program or Production Notice or Operating Plan, unilaterally and in good faith to maintain the Property in good standing, to prevent waste or to otherwise discharge any obligation which is imposed upon it pursuant to this Agreement and in respect of which the Management Committee has not given it directions;

including, without limiting generality, investigating, prospecting, exploring, developing, property maintenance, preparing reports, estimates and studies, designing, equipping, improving, surveying, construction and mining, milling, concentrating, rehabilitation, reclamation, and environmental protection.

"Net Proceeds of Production" shall have the meaning attributed to it in Schedule B.

"Norton East Property" means the mineral properties set out in Schedule D hereto.

"Norton West Property" means the mineral properties set out in Schedule C hereto.

"Operating Plan" means the annual plan of Mining Operations submitted pursuant to Section 14.2.

"Operative Date" means the date upon which this Agreement becomes effective.

"Operator" means the party appointed as the Operator in accordance with Section 5.0.

"Participant" means a party that is contributing to Exploration Costs or Mine Costs, as the case may be.

"party" or **"parties"** means the parties to this Agreement and their respective successors and permitted assigns which become parties pursuant to this Agreement.

"Prime Rate" means the rate of interest stated by the National Bank of Canada, Calgary, Alberta, as being charged by it on Canadian Dollar demand loans to its most creditworthy domestic commercial customers.

"Production Notice" means a notice which is given to each of the parties pursuant to Section 9.2.

"Program" means the work plan and budget of Mining Operations conducted during the Exploration Period and adopted pursuant to Section 7.2.

"Property" means the mineral properties of the Norton West Property and Norton East Property that become subject to this Agreement on the Operative Date, as set out in Schedule E hereto and any additional mineral properties that become part of the Property pursuant to this Agreement, the Minerals thereon, all information obtained from Mining Operations and those rights and benefits appurtenant to the Property that are acquired for the purpose of conducting Mining Operations.

"Proportionate Share" means that share which is equal to a party's percentage Interest.

"Royalty Holders" means R. Bruce Durham and R. Dues who hold a Net Smelter Return royalty of 2% pursuant to the Underlying Agreement.

"Simple Majority" means a decision made by the Management Committee by more than 50% of the votes represented and entitled to be cast at a meeting thereof.

"Special Majority" means a decision made by the Management Committee by more than 60% of the votes represented and entitled to be cast at a meeting thereof.

"Underlying Agreement" means the agreement of July 20, 2001 among R. Bruce Durham and R. Duess and East West sometimes referred to as the Durham Agreement. Such agreement is attached as Schedule D to this Agreement.

"\$" means Canadian Dollars.

1.2 The words **"Section"**, **"herein"** and **"hereunder"** refer to this Agreement. The words **"this Agreement"** includes every Schedule attached hereto [but excludes the Underlying Agreement.]

1.3 The captions and the emphases of the defined terms have been inserted for convenience and do not define the scope of any provision.

2.0 FORMATION OF THE JOINT VENTURE

2.1 The parties hereby agree to associate and participate in a joint operation (herein called the **"Joint Operation"**) for the purpose of exploring the Property and, if deemed warranted, bringing the Property or a portion thereof into commercial production by establishing and operating a Mine.

2.2 Except as expressly provided in this Agreement, each party shall have the right independently to engage in and receive full benefits from business activities, whether or not competitive with the Joint Operation, without consulting any other party. The doctrines of "corporate opportunity" or "business opportunity" shall not be applied to any other activity, venture or operation of any party and no party shall have any obligation to another party with respect to any opportunity to acquire any assets outside of the Property at any time, or within the Property after the termination of this Agreement. Unless otherwise agreed in writing, no party shall have any obligation to mill, beneficiate or otherwise treat any Minerals or any other party's share of Minerals in any facility owned or controlled by such party.

3.0 INTERESTS

3.1 Except as otherwise provided herein, the parties shall bear all Costs and all liabilities arising under this Agreement and the Underlying Agreement and shall own the Property, the Assets and any Mine all in proportion to their respective Interests.

3.2 East West and Golden Dragon hereby agree that the monies spent by Cascadia on its work program on the Norton Lake Project qualifies towards Cascadia's Earn-In Amount. East West and Golden Dragon further agree that Cascadia has spent a sufficient amount of money to satisfy the Earn-In Amount pursuant to the Norton Lake Option Agreement and has fulfilled all option payments such that at this time Cascadia shall have earned a 51% interest in the Joint Venture with respect to the Property

3.3 On the Operative Date the respective Interests of the parties shall be as follows:

On the Norton West Property

East West	39.2%
Golden Dragon	9.8%
Cascadia	51.0%

On the Norton East Property

East West	9.8%
Golden Dragon	39.2%
Cascadia	51.0%

3.4 The parties agree that any monies spent by a party on the Property, as agreed to in the Earn-In Confirmation letter dated December 14, 2006, shall be credited towards that parties overall expenditures on the Norton West Property and the Norton East Property collectively.

3.5 The parties acknowledge that the Net Smelter Return Royalty referenced in the Underlying Agreement may be purchased by the Joint Venture and that East West assigns its right to purchase the Net Smelter Return Royalty to the Joint Venture.

4.0 **MANAGEMENT COMMITTEE**

4.1 A Management Committee shall be established on or forthwith after the Operative Date. Except as herein otherwise provided, the Management Committee shall make all decisions in respect of Mining Operations.

4.2 Each party owning an Interest shall forthwith appoint one representative and one alternate representative to the Management Committee. The alternate representative may act for a party's representative in his absence.

4.3 The Operator shall call a Management Committee meeting at least once every 12 months, and, in any event within 14 days of being requested to do so by any representative.

4.4 The Operator shall give notice, specifying the time and place of, and the agenda for, the meeting to all representatives at least seven days before the time appointed for the meeting. Unless otherwise agreed to by the Management Committee, all meetings of the Management Committee shall be held in Calgary, Alberta, as long as Cascadia is the operator, but thereafter wherever the current operator decides. Each agenda for a meeting shall include the consideration and approval of the minutes of the immediately preceding meeting of the Management Committee.

4.5 Notice of a meeting shall not be required if representatives of all of the parties are present and unanimously agree upon the agenda.

4.6 A quorum for any Management Committee meeting shall be present if a representative of each of the parties holding an Interest is present. If a quorum is present at the meeting, the Management Committee shall be competent to exercise all of the authorities, powers and discretions herein bestowed upon it hereunder. The Management Committee shall not transact any business at a meeting unless a quorum is present at the commencement of the meeting. If a quorum is not present within 30 minutes following the time appointed for the commencement of the Management Committee meeting, the meeting shall be automatically re-scheduled for the same time of day and at the same place five business days later, and the Operator shall be under no obligation to give any party notice thereof. A quorum shall be deemed to be present at such re-scheduled meeting for all purposes under this Agreement if at least two representatives are present, and a party or parties holding not less than 25% in Interest is or are represented. A representative may attend and vote at a meeting of the Management Committee by telephone conference call in which each representative may hear, and be heard by, the other representatives.

4.7 The Management Committee shall decide every question submitted to it by a vote with each representative being entitled to cast that number of votes which is equal to its party's Interest percentage. Other than as is expressly set out herein to the contrary, the Management Committee shall make decisions by Simple Majority. In the event of a tied vote, the chairman shall have a casting vote in addition to the votes to which the chairman is entitled to cast as the representative of a party.

4.8 The representative and alternate representative of the Operator shall be the chairman and secretary, respectively, of the Management Committee meeting.

4.9 The secretary of the Management Committee meeting shall take minutes of that meeting and circulate copies thereof to each representative within a reasonable time following the termination of the meeting, and in any event no later than the time of delivery of the notice of the next following meeting of the Management Committee.

4.10 The Management Committee may make decisions by obtaining the consent in writing of the representatives of all parties. Any decision so made shall be as valid as a decision made at a duly called and held meeting of the Management Committee.

4.11 Management Committee decisions made in accordance with this Agreement shall be binding upon all of the parties.

4.12 Each party shall bear the expenses incurred by its representative and alternate representative in attending meetings of the Management Committee.

4.13 The Management Committee may, by agreement of the representatives of all the parties, establish such other rules of procedure, not inconsistent with this Agreement, as the Management Committee deems fit.

4.14 Reference in this Section to the “parties” shall apply during the Exploration Period. After the date of a Production Notice this Section shall be read as if the word “Participant” appeared wherever the word “party” appears.

5.0 OPERATOR

5.1 Cascadia shall act as Operator for so long as its Interest is 51% or more. If Cascadia's Interest is less than 51%, the Management Committee shall select a party, if it so consents, to be the Operator.

5.2 The party acting as Operator may resign as Operator on at least 90 days' notice to all the parties.

5.3 The Management Committee may, by Special Majority (with the Operator not being entitled to vote on such resolution), remove the party acting as Operator, effective the date designated by the Management Committee if:

- (a) that party makes an assignment for the benefit of its creditors, or consents to the appointment of a receiver for all or substantially all of its property, or files a petition in bankruptcy or is adjudicated bankrupt or insolvent; or
- (b) a court order is entered without that party's consent:
 - (i) appointing a receiver or trustee for all or substantially all of its property; or
 - (ii) approving a petition in bankruptcy or for a reorganization pursuant to the applicable bankruptcy legislation or for any other judicial modification or alteration of the rights of creditors; or
- (c) the Operator is in default under this Agreement and fails to cure such default, or to commence *bona fide* curative measures, within 30 days of receiving notice of the default from a non-Operator; or
- (d) the Operator fails to meet any of its obligations pursuant to Section 6.4; or
- (e) the Operator undergoes a change in "Control" (as hereinafter defined).

5.4 In Section 5.3, "**Control**" means the ability, directly or indirectly through one or more intermediaries, to direct or cause the direction of the management and policies of the Operator through:

- (a) the legal or beneficial ownership of voting securities;
- (b) the right to appoint managers, directors or corporate management;
- (c) contract;
- (d) operating agreement;

(e) voting trust;

or otherwise.

5.5 If a party resigns or is removed as Operator, the Management Committee (the representative of the former Operator not being entitled to vote on the resolution) shall thereupon select another party to become the Operator effective the date established by the Management Committee.

5.6 The new Operator shall assume all of the rights, duties, liabilities and status of the previous Operator as provided in this Agreement. The new Operator shall have no obligation to hire any employees of the former Operator resulting from this change of Operator.

5.7 Upon ceasing to be Operator, the former Operator shall forthwith deliver to the new Operator custody of all Assets, Property, books, records, and other property both real and personal which it prepared or maintained in its capacity as Operator.

5.8 If the Operator resigns or is removed and no other party consents to act as Operator, the Joint Operation shall be terminated and the party which was the Operator may, if it consents to act, continue to act as Operator to effect the termination and the other parties shall be obligated to fund their respective Proportionate Shares of the Costs incurred.

6.0 **RIGHTS, DUTIES AND STATUS OF OPERATOR**

6.1 The Operator in its operations hereunder shall be deemed to be an independent contractor. The Operator shall not act or hold itself out as agent for any of the parties nor make any commitments on behalf of any of the parties unless specifically permitted by this Agreement or directed in writing by a party.

6.2 Subject to any specific provision of this Agreement and subject to it having the right to reject any direction on reasonable grounds by virtue of its status as an independent contractor, the Operator shall perform its duties hereunder in accordance with the directions of the Management Committee and in accordance with this Agreement.

6.3 The Operator shall manage and carry out Mining Operations substantially in accordance with Programs, Feasibility Reports and Production Notices, Operating Plans, Mine Maintenance Plans and Mine Closure Plans adopted by the Management Committee and in

connection therewith shall, in advance if reasonably possible, notify the Management Committee of any change in Mining Operations which the Operator considers material and if it is not reasonably possible, the Operator shall notify the Management Committee so soon thereafter as is reasonably possible.

6.4 The Operator shall have the sole and exclusive right and authority to manage and carry out all Mining Operations in accordance herewith and to incur the Costs required for that purpose. In so doing the Operator shall:

- (a) comply with the provisions of all agreements or instruments of title under which the Property or Assets are held;
- (b) pay all Costs properly incurred promptly as and when due;
- (c) keep the Property and Assets free of all liens and encumbrances (other than those, if any, in effect on the Operative Date, those the creation of which is permitted pursuant to this Agreement, or builder's or mechanic's liens) arising out of the Mining Operations and, in the event of any lien being filed as aforesaid, proceed with diligence to contest or discharge the same;
- (d) with the approval of the Management Committee prosecute claims and, where a defence is available, defend litigation arising out of the Mining Operations, provided that any Participant may join in the prosecution or defence at its own expense;
- (e) subject to Section 20.6, perform such assessment work or make payments in lieu thereof and pay such rentals, taxes or other payments and do all such other things as may be necessary to maintain the Property in good standing, including, without limiting generality, staking and restaking mining claims, and applying for licenses, leases, grants, concessions, permits, patents and other rights to and interests in the Minerals;
- (f) maintain books of account in accordance with the Accounting Procedure, provided that the judgment of the Operator as to matters related to the accounting, for which provision is not made in the Accounting Procedure, shall govern if the Operator's accounting practices are in accordance with accounting principles generally accepted in the mining industry in Canada;

(g) perform its duties and obligations hereunder in a sound and workmanlike manner, in accordance with sound mining and engineering practices and other practices customary in the Canadian mining industry, and in substantial compliance with all applicable federal, provincial, Territorial and municipal laws, bylaws, ordinances, rules and regulations and this Agreement;

(h) prepare and deliver the reports provided for in Section 21.2; and

(i) have such additional duties and obligations as the Management Committee may from time to time determine.

7.0 **EXPLORATION PROGRAMS**

7.1 The Operator shall prepare draft Programs for consideration by the Management Committee. Unless otherwise agreed to by a Special Majority, each Program shall cover a calendar year. The draft Program shall contain a statement in reasonable detail of the proposed Mining Operations, estimates of all Exploration Costs to be incurred and an estimate of the time when they will be incurred, and shall be delivered to each Participant by no later than 60 days prior to the period to which the draft Program relates. Each draft Program shall be accompanied by such reports and data as are reasonably necessary for each party to evaluate and assess the results from the Program for the then current year and, to the extent not previously delivered, from earlier Programs.

7.2 The Management Committee shall review the draft Program prepared and, if it deems fit, adopt the Program with such modifications, if any, as the Management Committee deems necessary. The Operator shall be entitled to an allowance for a Cost overrun of 20% in addition to any budgeted Exploration Costs and any Costs so incurred shall be deemed to be included in the Program, as adopted.

7.3 The Operator shall forthwith submit the adopted Program to the parties. Each party may, within 30 days of receipt of the Program, give notice to the Operator committing to contribute its Proportionate Share of the Exploration Costs for that Program. A party which fails to give that notice within the 30-day period shall be deemed to have elected not to contribute to that Program.

7.4 If any party elected not to contribute to a Program, the amounts to be contributed by the parties who elected to contribute shall be increased *pro rata*, subject to the right of any of them to elect, prior to the commencement of the Program, not to contribute more than its

Proportionate Share. If one or more party so elects to contribute no more than its Proportionate Share and the other parties do not elect to contribute *pro rata* to the resulting shortfall, the Operator shall in good faith revise the Program and Budget such that the technical objectives of the original Program are retained to the extent that is reasonably practicable given the reduced contributions to Costs. The Operator shall, within 15 days following the end of the 30-day period set out in Section 7.3, deliver to each party a copy of the said revised Program which, if the budget contemplates Costs of at least 80% of those contemplated in the original adopted Program, shall then be deemed for all purposes under this Agreement to be the adopted Program. If the budget for the revised Program contemplates Costs of less than 80% of those contemplated in the original adopted Program, the revised Program shall be re-submitted to the Management Committee as a draft Program pursuant to Section 7.1, and the procedure set out in Sections 7.1 to 7.4 inclusive shall be repeated.

7.5 The Operator shall be entitled to invoice each Participant:

- (a) no more frequently than monthly, for its Proportionate Share of Exploration Costs incurred and paid by the Operator in carrying out a Program; or
- (b) not more than 60 days in advance of requirements, for an advance of that Participant's Proportionate Share of Exploration Costs estimated to be incurred and paid by the Operator in carrying out a Program.

Each invoice shall be signed by a financial officer of the Operator. Each Participant shall pay to the Operator the amount invoiced within 30 days of receipt of the invoice. If a Participant protests the correctness of an invoice it shall nevertheless be required to make the payment.

7.6 If any Participant, after having committed to contribute pursuant to Section 7.3, fails to pay an invoice within the 30-day period referred to in Section 7.5 the Operator may by notice demand payment. If no payment is made within the period of 30 days next succeeding the receipt of the demand notice, that Participant shall be deemed to have forfeited its right to contribute to any further Costs under this Agreement and it shall be deemed to have elected not to contribute to each Program subsequently conducted and to any Production Notice, and accordingly, shall have its Interest reduced in the manner contemplated in Sections 7.9 and 10.2(b).

7.7 The Operator shall expend all monies advanced by a Participant ratably with the advances of the other Participants. If the Operator suspends or prematurely terminates a Program, any funds advanced by a Participant in excess of that Participant's Proportionate Share of Exploration Costs incurred prior to the suspension or premature termination shall be refunded within 60 days of the suspension or premature termination. Unless approved unanimously by the Management Committee, the Operator shall be exclusively liable for the payment of all Costs incurred in excess of 120% of any budgeted Exploration Costs.

7.8 Unless otherwise directed by the Management Committee, the Operator may suspend or terminate prematurely any Program when the Operator, in good faith, considers that conditions are not suitable for the proper continuation or completion of the Program or the results obtained to that time eliminate or substantially impair the technical rationale on which the Program was based. If any Program is altered, suspended or terminated prematurely so that the Exploration Costs incurred on that Program as altered, suspended or terminated are less than 80% of the Exploration Costs set out in the adopted Program, any party which elected not to contribute to that Program shall be given notice of the alteration, suspension or termination by the Operator and shall be entitled to contribute its Proportionate Share of the Exploration Costs incurred on that Program by payment thereof to the Operator within 30 days after receipt of the notice, but shall not be entitled to review the results of the Program until it has made full payment. If payment is not made by that party within the 30 days aforesaid it shall forfeit its right to contribute to that Program without a demand for payment being required to be made thereafter by the Management Committee. If payment is made by that party within the 30 days as aforesaid, the Operator shall distribute the payment to the original Participants *pro rata* according to their respective contributions to the Program, and shall deliver to the new Participant copies of all data previously delivered to the other Participants with respect to that Program

7.9 If a party elected not to contribute to the Exploration Costs of any Program the Interest of that party shall be decreased and the Interest of each Participant contributing in excess of its Proportionate Share of the Exploration Costs shall be increased so that, subject to Section 7.10, at all times during the Exploration Period the Interest of each party will be that percentage which is equivalent to its Exploration Costs and Prior Exploration Costs expressed as a percentage of the Exploration Costs and Prior Exploration Costs of all parties. Notwithstanding the foregoing but subject to Section 7.10 hereof, the party whose Interest has been reduced (other than a party who has forfeited the right to contribute pursuant to Section 7.6) shall be entitled to receive details of and to contribute to future Programs to the extent of its then

Interest. On the Operative Date, the parties' respective Interests and Prior Exploration Costs shall be deemed to be as follows:

Norton West

	<u>Deemed Prior Exploration Costs</u>	<u>Interest</u>
East West	\$1,152,941	39.2 %
Golden Dragon	\$288,235	9.8 %
Cascadia	\$1,500,000	51.0%

Norton East

	<u>Deemed Prior Exploration Costs</u>	<u>Interest</u>
East West	\$28,823	9.8 %
Golden Dragon	\$115,294	39.2 %
Cascadia	\$150,000	51.0%

7.10 If the effect of the application of Section 7.9 is to reduce the Interest of any party to less than 5%, such party shall then be deemed to have assigned and conveyed its Interest to the Participants, if more than one then in proportion to their respective Interests, and shall be entitled to receive as its sole remuneration and benefit in consideration of that assignment and conveyance, by way of royalty, 2% of Net Proceeds of Production, subject to adjustment as provided in Section 7.12.

7.11 If the Operator fails to submit a draft Program or a revised Program by the date set out in this Agreement, the following shall apply:

- (a) the Operator shall not be entitled to submit a draft Program or revised Program for the subject period;
- (b) any Participant other than the Operator whose Interest is not less than 20% may, within 15 days following the date by which the Operator's draft Program or revised Program was due, submit a draft Program (the "**Non-Operator's Program**") for the subject period for consideration by the Management Committee;
- (c) the Management Committee shall review the Non-Operator's Program and, if it deems fit (the Operator not being entitled to vote with respect thereto), adopt the Non-Operator's Program with such modifications, if any, as the Management Committee deems necessary; the adopted Program shall then be submitted to the parties pursuant to Section 7.3;

(d) if the Operator is a party and elects to contribute to the Non-Operator's Program, it shall remain as the Operator for the duration of the Non-Operator's Program;

(e) if the Operator is a party and elects not to contribute to the Non-Operator's Program, it shall cease to be the Operator for the duration of the Non-Operator's Program, and the Management Committee shall appoint another party as Operator (the former Operator not being entitled to vote with respect thereto);

(f) following the completion of the Non-Operator's Program the former Operator shall, subject to the provisions of Section 5.1, automatically become the Operator.

7.12 Each of East West, Golden Dragon and Cascadia hereby agree that the maximum royalty to which it and its assigns shall be collectively entitled pursuant to this Agreement is 2% of Net Proceeds of Production. For example, if:

(a) East West assigns a part of its Interest to a third party pursuant to this Agreement; and

(b) East West then becomes entitled to receive 2% of Net Proceeds of Production pursuant to Section 7.10 or Section 10.2(b); and

(c) the said third party then also becomes entitled to receive Net Proceeds of Production pursuant to Section 7.10 or Section 10.2(b),

then East West and such third party shall collectively be entitled to receive 2% of Net Proceeds of Production, allocated between them on a proportionate basis based upon the respective Prior Exploration Costs and Exploration Costs of each of East West and such third party at the time that the assignment and conveyance of its Interest took place.

8.0 **FEASIBILITY REPORT**

8.1 Except as provided in Section 8.2, a Feasibility Report shall only be prepared with the approval of the Management Committee. The Operator shall provide copies of the completed Feasibility Report to each of the parties forthwith upon receipt, together with copies of all of the latest technical data and information generated or received by the Operator from the immediately preceding Program and not contained in the Feasibility Report.

8.2 Notwithstanding the provisions of Section 8.1, if a party (the "Proponent") is of the view that a Feasibility Report should be prepared, such party shall give notice thereof to the Operator and the Operator shall call a Management Committee meeting to consider the matter. If the Management Committee fails to approve the preparation of the Feasibility Report supported by the Proponent, the Proponent may, either alone or with other parties, at its or their sole cost, prepare a Feasibility Report. If such Feasibility Report indicates that production from the Property would be profitable to the Proponent, the Proponent shall deliver the Feasibility Report to the Operator, who shall then call a Management Committee meeting to consider the Proponent's Feasibility Report. If the Management Committee adopts the Feasibility Report, the non-contributing parties may either pay the Proponent an amount equal to 150% of their respective proportionate costs of the preparation of the Feasibility Report, or shall suffer reduction of their respective Interests pursuant to Section 7.9. Upon the adoption by the Management Committee of the Proponent's Feasibility Report, it shall become a Feasibility Report for all purposes hereunder.

8.3 The parties shall meet at reasonable intervals and times to review the Feasibility Report and discuss whether the establishing and bringing of a Mine into commercial production in conformity with the Feasibility Report is feasible or desirable.

9.0 **PRODUCTION NOTICE**

9.1 The Operator shall call a Management Committee meeting to consider the Feasibility Report for a date no sooner than three months and no later than six months after the Feasibility Report was provided to each of the parties.

9.2 The Management Committee shall consider the Feasibility Report prepared and may by Special Majority, approve the Feasibility Report, with such modifications, if any, as it considers necessary or desirable, together with an estimate of Construction Costs. If a Feasibility Report is approved as aforesaid the Management Committee shall forthwith cause a Production Notice to be given to each of the parties by the Operator stating that the Management Committee has approved that a Mine be established and brought into production in conformity with the Feasibility Report and estimated Construction Costs as so approved.

10.0 **ELECTION TO CONTRIBUTE**

10.1 Each party with an Interest may, within 60 days of the receipt of the Production Notice, give the Operator notice committing to contribute its Proportionate Share of Construction

Costs. A party which fails to give that notice within the 60-day period shall be deemed to have elected not to contribute to Construction Costs.

10.2 If any party elects not to contribute to Construction Costs that party, subject to its rights under Section 10.4, shall forfeit the right to contribute to any further Costs under this Agreement, and those parties which elected to contribute as aforesaid may thereupon elect to increase their contribution to Construction Costs, if more than one party then in proportion to their respective Interests, by the amount which any party has declined to contribute. If elections are made so that Construction Costs are fully committed:

- (a) the Interest of each Participant shall be increased and that of each non-Participant shall be decreased as Costs are incurred so that the Interest of each party at all times is that percentage which is equivalent to:
 - (i) the sum of its Exploration Costs, its Prior Exploration Costs and its contribution to Construction Costs;
divided by:
 - (ii) the sum of the total Exploration Costs, total Prior Exploration Costs and the total Construction Costs of all the parties;
multiplied by:
 - (iii) 100;
- (b) then, at the Completion Date, each non-Participant shall be deemed to have assigned and conveyed its Interest to the Participants, if more than one then in proportion to their respective Interests, and shall be entitled to receive as its sole remuneration and benefit in consideration of that assignment and conveyance, by way of royalty, subject to adjustment as provided in Section 7.12, that percent of the Net Proceeds of Production, as and when available, which is equivalent to the Interest, calculated at the Completion Date;
- (c) each Participant shall severally calculate and cause to be paid to each non-Participant any Net Proceeds of Production derived from the Property in the manner provided in Schedule B; and
- (d) notwithstanding the provisions of Sections 10.2(b) and (c), if the effect of the application of Section 10.2(a) reduces any party's Interest to less than 1% it shall forfeit its Interest to the Participants, if more than one then in proportion to their

respective Interests, and that party shall have no further right or interest under this Agreement.

10.3 If, after the operation of Section 10.2, Construction Costs are not fully committed the Production Notice shall be deemed to be withdrawn, and shall not be resubmitted, either in the same or a revised form, for a period of at least six months following such withdrawal.

10.4 If, after the operation of Section 10.2, Construction Costs are fully committed, the Participants shall diligently proceed with bringing a Mine into production in substantial conformity with the Feasibility Report. If the Participants fail to commence the implementation of the Feasibility Report within 12 months of Construction Costs being fully committed, for reasons other than general economic conditions in the mining industry, any party which forfeited the right to contribute to Construction Costs pursuant to Section 10.2 shall have the right, exercisable in the 30 days following the expiration of such 12-month period, to reacquire from the Participants not less than all of its Interest as last held, by paying its Proportionate Share of Construction Costs incurred to the end of such 12-month period (together with interest at the Prime Rate plus 3%) to the Participants in proportion to their respective Interests.

10.5 During the 12-month period referred to in Section 10.4, neither the Operator nor any Participant shall be obliged to provide any non-Participant with the results of any work carried out on the Property, the Participants' sole obligation during such period being to provide any non-Participant, on the written request of such non-Participant made only once during the said 12 months, with a summary of the nature of the work carried out and the total Costs thereof.

11.0 OPERATOR'S FEE

11.1 The Operator may charge the following sums in return for its head office overhead functions which are not charged directly:

(a) with respect to Programs:

- (i) 3% for each individual contract which expressly includes an overhead charge by the party contracted;
- (ii) 5% for each individual contract which exceeds \$100,000 and is not subject to Section 11.1(a)(i) hereof; or
- (iii) 10% of all other Costs not included in Sections 11.1(a)(i) and 11.1(a)(ii);

- (b) with respect to Construction: 5% of all other such Costs; and
- (c) subsequent to the Completion Date: 3% of all Operating Costs.

12.0 **MINE FINANCING**

12.1 The contributions of the Participants toward the Mine Costs shall be individually and separately provided by them.

12.2 Any party may pledge, mortgage, charge or otherwise encumber its Interest in order to secure moneys borrowed and used by that party for the sole purpose of enabling it to finance its participation under this Agreement or in order to secure by way of floating charge as a part of the general corporate assets of that party moneys borrowed for its general corporate purposes, provided that the pledgee, mortgagee, holder of the charge or encumbrance (in this Section called the "Chargee") shall hold the same subject to the provisions of this Agreement and that if the Chargee realizes upon any of its security it will comply with this Agreement. The Agreement between the party hereto, as borrower, and the Chargee shall contain specific provisions to the same effect as the provisions of this Section.

13.0 **CONSTRUCTION**

13.1 Subject to Sections 10.2 and 10.3, the Management Committee shall cause the Operator to, and the Operator shall, proceed with Construction with all reasonable dispatch after a Production Notice has been given. Construction shall be substantially in accordance with the Feasibility Report subject to any variations proposed in the Production Notice, and subject also to the right of the Management Committee to cause such other reasonable variations in Construction to be made as the Management Committee, by Special Majority, deems necessary and advisable.

14.0 **OPERATION OF THE MINE**

14.1 Commencing on the Completion Date, all Mining Operations shall be planned and conducted and all estimates, reports and statements shall be prepared and made on the basis of a calendar year.

14.2 With the exception of the year in which the Completion Date occurs, an Operating Plan for each calendar year shall be submitted by the Operator to the Participants not later than

November 1 in the year immediately preceding the calendar year to which the Operating Plan relates. Each Operating Plan shall contain the following:

- (a) a description of the proposed Mining Operations;
- (b) a detailed estimate of all Mine Costs plus a reasonable allowance for contingencies;
- (c) an estimate of the quantity and quality of the ore to be mined and the concentrates or metals or other products and by-products to be produced; and
- (d) such other facts as may be necessary to reasonably illustrate the results intended to be achieved by the Operating Plan.

Upon request of any Participant the Operator shall meet with that Participant to discuss the Operating Plan and shall provide such additional or supplemental information as that Participant may reasonably require with respect thereto.

14.3 The Management Committee shall adopt each Operating Plan, with such changes as it deems necessary, by November 30 in the year immediately preceding the calendar year to which the Operating Plan relates; provided, however, that the Management Committee, by Special Majority, may from time to time and any time amend any Operating Plan.

14.4 The Operator shall include in the estimate of Mine Costs referred to in Section 14.2(b) hereof the establishment of a trust or escrow fund providing for the reasonably estimated costs of satisfying continuing obligations that may remain after the permanent termination of Mining Operations, in excess of amounts actually expended. Such continuing obligations are or will be incurred as a result of the Joint Operation and shall include such things as monitoring, stabilization, reclamation or restoration obligations, severance and other employee benefit costs and all other obligations incurred or imposed as a result of the Joint Operation which continue or arise after the permanent termination of Mining Operations and the termination of this Agreement and settlement of all accounts. The payment of such continuing obligations shall be made on the basis of units of production, and shall be in amounts reasonably estimated to provide over the lifetime of proven and probable reserves funds adequate to pay for such reclamation and long term care and monitoring. The Participants shall contribute to the trust or escrow fund cash (or provide letters of credit or other forms of security readily convertible to cash in form approved by the Management Committee). The amount contributed

from time to time for the satisfaction of such continuing obligations shall be classified as Costs hereunder but shall be segregated into a separate account.

15.0 **PAYMENT OF MINE COSTS**

15.1 The Operator may invoice each Participant, from time to time, for that Participant's Proportionate Share of Construction Costs or Operating Costs incurred to the date of the invoice, or at the beginning of each month for an advance equal to that Participant's Proportionate Share of the estimated cash disbursements to be made during the month. Each Participant shall pay its Proportionate Share of the Construction Costs or Operating Costs or the estimated cash disbursements aforesaid to the Operator within 30 days after receipt of the invoice. If the payment or advance requested is not so made, the amount of the payment or advance shall bear interest calculated monthly not in advance from the 30th day after the date of receipt of the invoice thereof by that Participant at a rate equivalent to the weighted average Prime Rate for the month plus 3% until paid. The Operator shall have a lien on each Participant's Interest in order to secure that payment or advance together with interest which has accrued thereon.

15.2 If any Participant fails to pay an invoice contemplated in Section 15.1 within the 30-day period aforesaid, the Operator may, by notice, demand payment. If no payment is made within 30 days of the Operator's demand notice, the Operator may, without limiting its other rights at law, enforce the lien created by Section 15.1 by taking possession of all or any part of that Participant's Interest. The Operator may sell and dispose of the Interest which it has so taken into its possession by:

- (a) first offering that Interest to the other Participants, if more than one then in proportion to the respective Interests of the Participants who wish to accept that offer, for that price which is the fair market value stated in the lower of two appraisals obtained by the Operator from independent, well recognized appraisers competent in the appraisal of mining properties; and
- (b) if the Participants have not purchased all or part of that Interest as aforesaid, then by selling the balance, if any, either in whole or in part or in separate parcels at public auction or by private tender (the Participants being entitled to bid) at a time and on whatever terms the Operator shall arrange, having first given notice to the defaulting Participant of the time and place of the sale.

As a condition of the sale as contemplated in Section 15.2(b), the purchaser shall agree to be bound by this Agreement and, prior to acquiring the Interest, shall deliver notice to that effect to the parties, in form acceptable to the Operator. The proceeds of the sale shall be applied by the Operator in payment of the amount due from the defaulting Participant and interest as aforesaid, and the balance remaining, if any, shall be paid to the defaulting Participant after deducting reasonable costs of the sale. Any sale or disposal made as aforesaid shall be a perpetual bar both at law and in equity by the defaulting Participant and its successors and assigns against all other Participants.

16.0 **DISTRIBUTION IN KIND**

16.1 It is expressly intended that, upon implementation of any Production Notice hereunder, the association of the parties hereto shall be limited to the efficient production of Minerals from the Property and related activities, and that each of the parties shall be entitled to use, dispose of or otherwise deal with its Proportionate Share of Minerals as it sees fit. Each Participant shall take in kind, f.o.b. truck or railcar on the Property, and separately dispose of its Proportionate Share of the Minerals produced from the Mine. From the time of delivery, each Participant shall have ownership of and title to its Proportionate Share of Minerals separate from, and not as tenant in common with, the other Participants, and shall bear all risk of loss of Minerals. Extra costs and expenses incurred by reason of the Participants taking in kind and making separate dispositions shall be paid by each Participant directly and not through the Operator or Management Committee.

16.2 Each Participant shall construct, operate and maintain, all at its own cost and expense, any and all facilities which may be necessary to receive and store and dispose of its Proportionate Share of the Minerals at the rate the same are produced.

16.3 If a Participant has not made the necessary arrangements to take in kind and store its share of production as aforesaid the Operator shall, at the sole cost and risk of that Participant store, in any location where it will not interfere with Mining Operations, the production owned by that Participant. The Operator and the other parties shall be under no responsibility with respect thereto. All of the Costs involved in arranging and providing storage shall be billed directly to, and be the sole responsibility of the Participant whose share of production is so stored. The Operator's charges for such assistance and any other related matters shall be billed directly to and be the sole responsibility of the Participant. All such billings shall be subject to the provisions of Sections 15.1 and 15.2 hereof.

17.0 **SURRENDER OF INTEREST**

17.1 Any party not in default hereunder may, at any time upon notice, surrender its entire Interest to the other parties by giving those parties notice of surrender. The notice of surrender shall:

- (a) indicate a date for surrender not less than three months after the date on which the notice is given; and
- (b) contain an undertaking that the surrendering party will:
 - (i) satisfy its Proportionate Share, based on its then Interest, of all obligations and liabilities which arose at any time prior to the date of surrender;
 - (ii) if the Operator has not included in Mine Costs the costs of continuing obligations as set out in Section 14.4 hereof, pay on the date of surrender its reasonably estimated Proportionate Share, based on the surrendering party's then Interest, of the Costs of rehabilitating the Mine site and of reclamation based on the Mining Operations completed as at the date of surrender; and
 - (iii) will hold in confidence, for a period of two years from the date of surrender, all information and data which it acquired pursuant to this Agreement.

17.2 Upon the surrender of its entire Interest as contemplated in Section 17.1 and upon delivery of a release in writing, in form acceptable to counsel for the Operator, releasing the other parties from all claims and demands hereunder, the surrendering party shall be relieved of all obligations or liabilities hereunder except for those which arose or accrued or were accruing due on or before the date of the surrender.

17.3 A party to whom a notice of surrender has been given as contemplated in Section 17.1 may elect, by notice within 90 days to the party which first gave the notice to accept the surrender, in which case Sections 17.1 and 17.2 shall apply, or to join in the surrender. If all of the parties join in the surrender the Joint Operation shall be terminated in accordance with Section 18.0.

18.0 **TERMINATION OF MINING OPERATIONS**

18.1 The Operator may, at any time subsequent to the Completion Date, on at least 30 days' notice to all Participants, recommend that the Management Committee approve that the Mining Operations be suspended. The Operator's recommendation shall include a plan and budget (in this Section 18.0 called the "**Mine Maintenance Plan**"), in reasonable detail, of the activities to be performed to maintain the Assets and Property during the period of suspension and the Costs to be incurred. The Management Committee may, by **Special Majority**, at any time subsequent to the Completion Date, cause the Operator to suspend Mining Operations in accordance with the Operator's recommendation with such changes to the Mine Maintenance Plan as the Management Committee deems necessary. The Participants shall be committed to contribute their Proportionate Share of the Costs incurred in connection with the Mine Maintenance Plan. The Management Committee, by **Special Majority**, may cause Mining Operations to be resumed at any time.

18.2 The Operator may, at any time following a period of at least 90 days during which Mining Operations have been suspended, upon at least 30 days' notice to all Participants, or in the events described in Section 18.1, recommend that the Management Committee approve the permanent termination of Mining Operations. The Operator's recommendation shall include a plan and budget (in this Section 18.0 called the "**Mine Closure Plan**"), in reasonable detail, of the activities to be performed to close the Mine and reclaim and rehabilitate the Property, as required by applicable law, regulation or contract by reason of this Agreement. The Management Committee may, by unanimous approval of the representatives of all Participants, approve the Operator's recommendation with such changes to the Mine Closure Plan as the Management Committee deems necessary.

18.3 If the Management Committee approves the Operator's recommendation as aforesaid, it shall cause the Operator to:

- (a) implement the Mine Closure Plan, whereupon the Participants shall be committed to pay, in proportion to their respective Interests, such Costs as may be required to implement that Mine Closure Plan;
- (b) remove, sell and dispose of such Assets as may reasonably be removed and disposed of profitably and such other Assets as the Operator may be required to remove pursuant to applicable environmental and mining laws; and
- (c) sell, abandon or otherwise dispose of the Assets and the Property.

The disposal price for the Assets and the Property shall be the best price reasonably obtainable and the net revenues, if any, from the removal and sale shall be credited to the Participants in proportion to their respective Interests.

18.4 If the Management Committee does not approve the Operator's recommendation contemplated in Section 18.2, the Operator shall maintain Mining Operations in accordance with the Mine Maintenance Plan as pursuant to Section 18.1.

19.0 **THE PROPERTY**

19.1 Title to the Property shall be held in the name of **the Operator** in trust for the parties in proportion to their respective Interests as adjusted from time to time. Each of the parties shall have the right to receive, forthwith upon making demand therefor from **the Operator**, such documents as it may reasonably require to confirm its Interest.

19.2 This Agreement, or a memorandum of this Agreement, shall, upon the written request of any party, be recorded in the office of any governmental agency so requested, in order to give notice to third parties of the respective interests of the parties in the Property and this Agreement. Each party hereby covenants and agrees with the requesting party to execute such documents as may be necessary to perfect such recording and to pay the cost of such recording in proportion to their respective Interest as at the date of the **request/recording**.

20.0 **AREA OF COMMON INTEREST**

20.1 The area of common interest shall be deemed to comprise that area which is included within three (3) kilometers of the outermost boundary of the mineral properties which constitute the Property as at the Operative Date. It is understood that the area of common interest may be expanded pursuant to provisions of the Underlying Agreement. Notwithstanding the forgoing, for further clarity, any potential claims within the ACI lying to the west of a vertical line extending the common boundary shall belong to the Norton West Property and any claims lying to the east of such line shall belong to the Norton East Property.

20.2 If at any time during the subsistence of this Agreement any party or the Affiliate of any party (in this Section only called in each case the "**Acquiring Party**") stakes or otherwise acquires, directly or indirectly, any right to or interest in any mining claim, licence, lease, grant, concession, permit, patent, or other mineral property located wholly or partly within the area of interest referred to in Section 20.1, the Acquiring Party shall forthwith give notice to the other

parties of that staking or acquisition, the total cost thereof and all details in the possession of that party with respect to the details of the acquisition, the nature of the property and the known mineralization.

20.3 The Management Committee (the representative of the Acquiring Party not being entitled to vote with respect thereto) may, within 30 days of receipt of the Acquiring Party's notice, elect, by notice to the Acquiring Party, to require that the mineral properties and the right or interest acquired be included in and thereafter form part of the Property for all purposes of this Agreement.

20.4 If the election aforesaid is made, all the other parties shall reimburse the Acquiring Party for that portion of the cost of acquisition which is equivalent to their respective Interests.

20.5 If the Management Committee does not make the election aforesaid within that period of 30 days, the right or interest acquired shall not form part of the Property and the Acquiring Party shall be solely entitled thereto.

20.6 Notwithstanding Section 6.4(e), the Operator shall be entitled, at any time and from time to time to surrender all or any part of the Property or to permit the same to lapse, but only upon first either obtaining the unanimous consent of the Management Committee, or giving 60 days' notice of its intention to do so to the other parties. In this latter event, the parties, other than the Operator, shall be entitled to receive from the Operator, on request prior to the date of the surrender or lapse, *pro rata* in accordance with their respective Interests, a conveyance of that portion of the Property intended for surrender or lapse, together with copies of any plans, assay maps, diamond drill records and factual engineering data in the Operator's possession and relevant thereto. Any part of the Property so acquired shall cease to be subject to this Agreement and shall not be subject to Section 20.2. Any part of the Property which has not been so acquired by any of the parties shall remain subject to Section 20.2.

21.0 INFORMATION AND DATA

21.1 At all times during the subsistence of this Agreement the duly authorized representatives of each Participant shall, at its and their sole risk and expense and at reasonable intervals and times, have access to the Property and to all technical records and other factual engineering data and information relating to the Property which is in the possession of the Operator.

21.2 During the Exploration Period while Programs are being carried out, the Operator shall furnish the Participants with monthly progress reports and with a final report within 60 days following the conclusion of each Program. The final report shall show the Mining Operations performed and the results obtained and shall be accompanied by a statement of Costs and copies of pertinent plans, assay maps, diamond drill records and other factual engineering data. During the Construction Period and during the implementation of an Operating Plan the Operator shall provide monthly progress reports to the Participants, which report shall include information on any changes or developments affecting the Mine that the Operator considers are material.

21.3 All information and data concerning or derived from the Mining Operations shall be kept confidential and, except to the extent required by law or by regulation of any Securities Commission or Stock Exchange, shall not be disclosed to any person other than an Affiliate without the prior consent of all the Participants, which consent shall not unreasonably be withheld.

21.4 The text of any news releases or other public statements which a party intends to make with respect to the Property or this Agreement shall, to the extent practicable, be made available to the other parties prior to publication and the other parties shall have the right to make suggestions for changes therein.

22.0 LIABILITY OF THE OPERATOR

22.1 Subject to Section 22.2, each party shall indemnify and save the Operator harmless from and against any loss, liability, claim, demand, damage, expense, injury or death (including, without limiting the generality of the foregoing, legal fees) resulting from any acts or omissions of the Operator or its officers, employees or agents.

22.2 Notwithstanding Section 22.1, the Operator shall not be indemnified nor held harmless by any of the parties for any loss, liability, claim, damage, expense, injury or death, (including, without limiting the generality of the foregoing, legal fees) resulting from the negligence or willful misconduct of the Operator or its officers, employees or agents.

22.3 An act or omission of the Operator or its officers, employees or agents done or omitted to be done:

- (a) at the direction of, or with the concurrence of, the Management Committee; or

(b) unilaterally and in good faith by the Operator to protect life or property,

shall be deemed not to be negligence or willful misconduct.

22.4 The obligation of each party to indemnify and save the Operator harmless pursuant to Section 22.1 shall be in proportion to its Interest as at the date that the loss, liability, claim, demand, damage, expense, injury or death occurred or arose.

22.5 The Operator shall not be liable to any other party nor shall any party be liable to the Operator in contract, tort or otherwise for special or consequential damages, including, without limiting the generality of the foregoing, loss of profits or revenues.

23.0 INSURANCE

23.1 Commencing on the Operative Date, the Management Committee shall cause the Operator to place and maintain with a reputable insurer or insurers such insurance, if any, as the Management Committee in its discretion deems advisable in order to protect the parties together with such other insurance as any Participant may by notice reasonably request. The Operator shall, upon the written request of any Participant, provide it with evidence of that insurance.

23.2 Section 23.1 shall not preclude any party from placing, for its own account insurance for greater or other coverage than that placed by the Operator.

24.0 RELATIONSHIP OF PARTIES

24.1 The rights, duties, obligations and liabilities of the parties shall be several and not joint nor joint and several, it being the express purpose and intention of the parties that their respective Interests shall be held as tenants in common.

24.2 Nothing herein contained shall be construed as creating a partnership of any kind or as imposing upon any party any partnership duty, obligation or liability to any other party hereto.

24.3 No party shall, except when required by this Agreement or by any law, bylaw, ordinance, rule, order or regulation, use, suffer or permit to be used, directly or indirectly, the name of any other party for any purpose related to the Property or this Agreement.

25.0 **PARTITION**

25.1 Each of the parties hereto waives, during the term of this Agreement, any right to partition of the Property or the Assets or any part thereof and no party shall seek to be entitled to partition of the Property or the Assets whether by way of physical partition, judicial sale or otherwise during the term of this Agreement.

26.0 **TAXATION**

26.1 All Costs incurred hereunder shall be for the account of the party or parties making or incurring the same, if more than one then in proportion to their respective Interests, and each party on whose behalf any Costs have been incurred shall be entitled to claim all tax benefits, write-offs, and deductions with respect thereto.

27.0 **FORCE MAJEURE**

27.1 Notwithstanding anything herein contained to the contrary, if any Participant is prevented from or delayed in performing any obligation under this Agreement, and such failure is occasioned by any cause beyond its reasonable control, excluding only lack of finances, then, subject to Section 27.2, the time for the observance of the condition or performance of the obligation in question shall be extended for a period equivalent to the total period the cause of the prevention or delay persists or remains in effect regardless of the length of such total period.

27.2 Any party hereto claiming suspension of its obligations as aforesaid shall promptly notify the other parties to that effect and shall take all reasonable steps to remove or remedy the cause and effect of the force majeure described in the said notice insofar as it is reasonably able so to do and as soon as possible; provided that the terms of settlement of any labour disturbance or dispute, strike or lockout shall be wholly in the discretion of the party claiming suspension of its obligations by reason thereof, and that party shall not be required to accede to the demands of its opponents in any such labour disturbance or dispute, strike, or lockout solely to remedy or remove the force majeure thereby constituted. The party claiming suspension of its obligations shall promptly notify the other parties when the cause of the Force Majeure has been removed.

27.3 The extension of time for the observance of conditions or performance of obligations as a result of force majeure shall not relieve the Operator from its obligations to keep the Property in good standing pursuant to Sections 6.4(a) and 6.4(e).

28.0 **NOTICE**

28.1 All invoices, notices, consents and demands under this Agreement shall be in writing and may be delivered personally, transmitted by fax (with transmission confirmed in writing), or may be forwarded by first class prepaid registered mail to the address for each party specified in this Agreement or to such addresses as each party may from time to time specify by notice. Any notice delivered or sent by fax shall be deemed to have been given and received on the business day next following the date of delivery or transmission. Any notice mailed as aforesaid shall be deemed to have been given and received on the fifth business day following the date it is posted, provided that if between the time of mailing and the actual receipt of the notice there shall be a mail strike, slowdown or other labour dispute which affects delivery of the notice by mails, then the notice shall be effective only if actually delivered.

29.0 **WAIVER**

29.1 No waiver of any breach of this Agreement shall be binding unless evidenced in writing executed by the party against whom charged. Any waiver shall extend only to the particular breach so waived and shall not limit any rights with respect to any future breach.

30.0 **AMENDMENTS**

30.1 Except for those provisions, if any, of the Underlying Agreement specifically incorporated herein by reference, this Agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof. An amendment or variation of this Agreement shall only be binding upon a party if evidenced in writing executed by that party.

31.0 **TERM**

31.1 Unless earlier terminated by agreement of all parties having an Interest or as a result of one party acquiring both a 100% Interest and a 100% interest in the Net Proceeds of Production, the Joint Operation and this Agreement shall remain in full force and effect for so long as any party has any right, title or interest in the Property. Termination of this Agreement shall not, however, relieve any party from any obligations theretofore accrued but unsatisfied, nor from its obligations with respect to rehabilitation of the Mine site and reclamation.

32.0 **TIME OF ESSENCE**

32.1 Time is of the essence of this Agreement.

33.0

ASSIGNMENT — RIGHT OF FIRST REFUSAL

33.1

If a party (hereinafter in this Section referred to as the “Owner”):

- (a) receives a *bona fide* offer from an independent third party (the “**Proposed Purchaser**”) dealing at arm’s length with the Owner to purchase all or any part all of the Owner’s Interest or its interest in this Agreement (which for certainty shall include the Owner’s right to receive Net Proceeds of Production), which offer the Owner desires to accept; or
- (b) if the Owner intends to sell all or any part of its Interest or its interest in this Agreement.

33.2

The Owner shall first offer (the “**Offer**”) such interest in writing to the other parties prorata upon terms no less favourable than those offered by the Proposed Purchaser or intended to be offered by the Owner, as the case may be. The Offer shall specify the price and terms and conditions of such sale, the name of the Proposed Purchaser (which term shall, in the case of an intended offer by the Owner, mean the person or persons to whom the Owner intends to offer its interest) and, if the offer received by the Owner from the Proposed Purchaser provides for any consideration payable to the Owner otherwise than in cash, the Offer shall include the Owner’s good faith estimate of the cash equivalent of the non-cash consideration. If within a period of 60 days of the receipt of the Offer, the other party notifies the Owner in writing that it will accept the same, the Owner shall be bound to sell such interest to the other party (subject as hereinafter provided with respect to price) on the terms and conditions of the Offer. If the Offer so accepted by the other party contains the Owner’s good faith estimate of the cash equivalent consideration as aforesaid, and if the other party disagrees with the Owner’s best estimate, the other party shall so notify the Owner at the time of acceptance and the other party shall, in such notice, specify what it considers, in good faith, the fair cash equivalent to be and the resulting total purchase price. If the other party so notifies the Owner, the acceptance by the other party shall be effective and binding upon the Owner and the other party and the cash equivalent of any such non-cash consideration shall be determined by binding arbitration under the *Commercial Arbitration Act* (British Columbia) and shall be payable by the other party, subject to prepayment as hereinafter provided, within 60 days following its determination by arbitration. The other party shall in such case pay to the Owner, against receipt of an absolute transfer of clear and unencumbered title to the interest of the Owner being sold, the total purchase price which it specified in its notice to the Owner and such amount shall be credited to the amount determined following arbitration of the cash equivalent of any non-cash consideration. If the other party fails to notify the Owner before the expiration of the time

limited therefor that it will purchase the interest offered, the Owner may sell and transfer such interest to the Proposed Purchaser at the price and on the terms and conditions specified in the Offer for a period of 60 days, provided that the terms of this Section shall again apply to such interest if the sale to the Proposed Purchaser is not completed within the said 60 days. Any sale hereunder shall be conditional upon the Proposed Purchaser delivering a written undertaking to the other party, in form and content satisfactory to its counsel, to be bound by the terms and conditions of this Agreement.

34.0 **SUCCESSORS AND ASSIGNS**

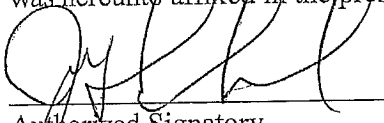
34.1 This Agreement shall enure to the benefit of and be binding upon the parties hereto and their respective successors and permitted assigns.

35.0 **GOVERNING LAW**

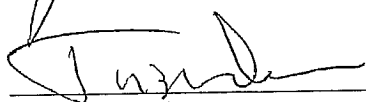
35.1 This Agreement shall be governed by and interpreted in accordance with the laws of the Province of British Columbia.

IN WITNESS WHEREOF the parties hereto have executed this agreement as of the day and year first above written.

THE COMMON SEAL of **CASCADIA
INTERNATIONAL RESOURCES INC.**
was hereunto affixed in the presence of:



Authorized Signatory



Authorized Signatory

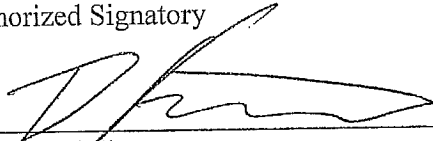
C/S

THE COMMON SEAL of **EAST WEST
RESOURCE CORPORATION** was
hereunto affixed in the presence of:

C/S



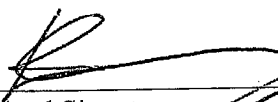
Authorized Signatory



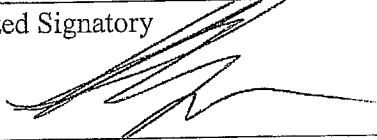
Authorized Signatory

THE COMMON SEAL of **CANADIAN
GOLDEN DRAGON RESOURCES LTD.**
was hereunto affixed in the presence of:

C/S



Authorized Signatory



Authorized Signatory

SCHEDULE A

ACCOUNTING PROCEDURE

1.0 INTERPRETATION

1.1 Terms defined in the Agreement shall, subject to any contrary intention, have the same meanings herein. In this Schedule the following words, phrases and expressions shall have the following meanings:

“**Agreement**” means the Agreement to which this Accounting Procedure is attached as Schedule A.

“**Count**” means a physical inventory count.

“**Employee**” means those employees of the Operator who are assigned to and directly engaged in the conduct of Mining Operations, whether on a full-time or part-time basis.

“**Employee Benefits**” means the Operator’s cost of holiday, vacation, sickness, disability benefits, field bonuses, amounts paid to and the Operator’s costs of established plans for employee’s group life insurance, hospitalization, pension, retirement and other customary plans maintained for the benefit of Employees and Personnel, as the case may be, which costs may be charged as a percentage assessment on the salaries and wages of Employees or Personnel, as the case may be, on a basis consistent with the Operator’s cost experience.

“**Field Offices**” means the necessary sub-office or sub-offices in each place where a Program or Construction is being conducted or a Mine is being operated.

“**Government Contributions**” means the cost or contributions made by the Operator pursuant to assessments imposed by governmental authority which are applicable to the salaries or wages of Employees or Personnel, as the case may be.

“**Joint Account**” means the books of account maintained by the Operator to record all assets, liabilities, costs, expenses, credits and other transactions arising out of or in connection with the Mining Operations.

“**Material**” means the personal property, equipment and supplies acquired or held, at the direction or with the approval of the Management Committee, for use in the Mining Operations and, without limiting the generality, more particularly

"Controllable Material" means such Material which is ordinarily classified as Controllable Material, as that classification is determined or approved by the Management Committee, and controlled in mining operations.

"Personnel" means those management, supervisory, administrative, clerical or other personnel of the Operator normally associated with the Supervision Offices whose salaries and wages are charged directly to the Supervision Office in question.

"Reasonable Expenses" means the reasonable expenses of Employees or Personnel, as the case may be, for which those Employees or Personnel may be reimbursed under the Operator's usual expense account practice, as accepted by the Management Committee; including without limiting generality, any relocation expenses necessarily incurred in order to properly staff the Mining Operations if the relocation is approved by the Management Committee.

"Supervision Offices" means the Operator's offices or department within the Operator's offices from which the Mining Operations are generally supervised.

2.0 **STATEMENTS AND BILLINGS**

2.1 The Operator shall, by invoice, charge each Participant with its Proportionate Share of Exploration Costs and Mine Costs in the manner provided in Sections 7.0 and 15.0 of the Agreement respectively.

2.2 The Operator shall deliver, with each invoice rendered for Costs incurred a statement indicating:

- (a) all charges or credits to the Joint Account relating to Controllable Material; and
- (b) all other charges and credits to the Joint Account summarized by appropriate classification indicative of the nature of the charges and credits.

2.3 The Operator shall deliver with each invoice for an advance of Costs a statement indicating:

- (a) the estimated Exploration Costs or, in the case of Mine Costs the estimated cash disbursements, to be made during the next succeeding month;

- (b) the addition thereto or subtraction therefrom, as the case may be, made in respect of Exploration Costs or Mine Costs actually having been incurred in an amount greater or lesser than the advance which was made by each Participant for the penultimate month preceding the month of the invoice; and
- (c) the advances made by each Participant to date and the Exploration Costs or Mine Costs incurred to the end of the penultimate month preceding the month of the invoice.

3.0 **DIRECT CHARGES**

3.1 The Operator shall charge the Joint Account with the following items:

(a) Contractor's Charges:

All costs directly relating to the Mining Operations incurred under contracts entered into by the Operator with third parties.

(b) Labour Charges:

- (i) The salaries and wages of Employees in an amount calculated by taking the full salary or wage of each Employee multiplied by that fraction which has as its numerator the total time for the month that the Employees were directly engaged in the conduct of Mining Operations and as its denominator the total normal working time for the month of the Employee;
- (ii) the Reasonable Expenses of the Employees; and
- (iii) Employee Benefits and Government Contributions in respect of the Employees in an amount proportionate to the charge made to the Joint Account in respect to their salaries and wages.

(c) Office Maintenance:

- (i) The cost or a *pro rata* portion of the costs, as the case may be, of maintaining and operating the Field Offices and the Supervision Offices. The basis for charging the Joint Account for such maintenance costs shall be as follows:
 - (A) the expense of maintaining and operating Field Offices, less any revenue therefrom; and
 - (B) that portion of maintaining and operating the Supervision Offices which is equal to:
 - (1) the anticipated total operating expenses of the Supervision Offices
divided by:
 - (2) the anticipated total staff man days for the Employees whether in connection with the Mining Operations or not;
multiplied by:
 - (3) the actual total time spent on the Mining Operations by the Employee expressed in man days;
- (ii) without limiting generality, the anticipated total operating expenses of the Supervision Offices shall include:
 - (A) the salaries and wages of the Operator's Personnel which have been directly charged to the Supervision Offices;
 - (B) the Reasonable Expense of the Personnel; and
 - (C) Employee Benefits; and
- (iii) the Operator shall make an adjustment in respect of the Office Maintenance cost forthwith after the end of each Operating Year upon having determined the actual operating expenses and actual total staff man days referred to in Section 3.1(c)(i)(B) of this Schedule A.

(d) Material:

Material purchased or furnished by the Operator for use on the Property as provided under Section 4.0 of this Schedule A.

(e) Transportation Charges:

The cost of transporting Employees and Material necessary for the Mining Operations.

(f) Service Charges:

(i) The cost of services and utilities procured from outside sources other than services covered by Section 3.1(h). The cost of consultant services shall not be charged to the Joint Account unless the retaining of the consultant is approved in advance by the Management Committee; and

(ii) use and service of equipment and facilities furnished by the Operator as provided in Section 4.4 of this Schedule A.

(g) Damages and Losses to Joint Property:

All costs necessary for the repair or replacement of Assets made necessary because of damages or losses by fire, flood, storms, theft, accident or other cause. If the damage or loss is estimated by the Operator to exceed \$10,000, the Operator shall furnish each Participant with written particulars of the damages or losses incurred as soon as practicable after the damage or loss has been discovered. The proceeds, if any, received on claims against any policies of insurance in respect of those damages or losses shall be credited to the Joint Account.

(h) Legal Expense:

All costs of handling, investigating and settling litigation or recovering the Assets, including, without limiting generality, attorney's fees, court costs, costs of investigation or procuring evidence and amounts paid in settlement or satisfaction of any litigation or claims; provided, however, that, unless otherwise approved in advance by the Management Committee, no charge shall be made for the services of the Operator's legal staff or the fees and expenses of outside solicitors.

(i) Taxes:

All taxes, duties or assessments of every kind and nature (except income taxes) assessed or levied upon or in connection with the Property, the Mining Operations thereon, or the production therefrom, which have been paid by the Operator for the benefit of the parties.

(j) Insurance:

Net premiums paid for:

- (i) such policies of insurance on or in connection with Mining Operations as may be required to be carried by law; and
- (ii) such other policies of insurance as the Operator may carry for the protection of the parties in accordance with the Agreement; and

the applicable deductibles in event of an insured loss.

(k) Rentals:

Fees, rentals and other similar charges required to be paid for acquiring, recording and maintaining permits, mineral claims and mining leases and rentals and royalties which are paid as a consequence of the Mining Operations.

(l) Permits:

Permit costs, fees and other similar charges which are assessed by various governmental agencies.

(m) Other Expenditures:

Such other costs and expenses which are not covered or dealt with in the foregoing provisions of this Section 3.1 of this Schedule A as are incurred with the approval of the Management Committee for Mining Operations or as may be contemplated in the Agreement.

4.0 PURCHASE OF MATERIAL

4.1 Subject to Section 4.4 of this Schedule A the Operator shall purchase all Materials and procure all services required in the Mining Operations.

4.2 Materials purchased and services procured by the Operator directly for the Mining Operations shall be charged to the Joint Account at the price paid by the Operator less all discounts actually received.

4.3 Any Participant may sell Material or services required in the Mining Operations to the Operator for such price and upon such terms and conditions as the Management Committee may approve.

4.4 Notwithstanding the foregoing provisions of this Section 4.0, the Operator, after having obtained the prior approval of the Management Committee, shall be entitled to supply for use in connection with the Mining Operations equipment and facilities which are owned by the Operator and to charge the Joint Account with such reasonable costs as are commensurate with the ownership and use thereof.

5.0 DISPOSAL OF MATERIAL

5.1 The Operator, with the approval of the Management Committee may, from time to time, sell any Material which has become surplus to the foreseeable needs of the Mining Operations for the best price and upon the most favourable terms and conditions available.

5.2 Any Participant may purchase from the Operator any Material which may from time to time become surplus to the foreseeable need of the Mining Operations for such price and upon such terms and conditions as the Management Committee may approve.

5.3 Upon termination of the Agreement, the Management Committee may approve the division of any Material held by the Operator at that date, which Material may be taken by the Participants in kind or be taken by a Participant in lieu of a portion of its Proportionate Share of the net revenues received from the disposal of the Assets and Property. If the division to a Participant be in lieu, it shall be for such price and on such terms and conditions as the Management Committee may approve.

5.4 The net revenues received from the sale of any Material to third parties or to a Participant shall be credited to the Joint Account.

6.0 **INVENTORIES**

6.1 The Operator shall maintain records of Material in reasonable detail and records of Controllable Material in detail.

6.2 The Operator shall perform Counts from time to time at reasonable intervals, and in any event at the end of each calendar year. The independent external auditor of the Operator shall be given reasonable notice of each Count, and shall be given the opportunity to attend the Count.

6.3 Forthwith after performing a Count, the Operator shall reconcile the inventory with the Joint Account. The Operator shall not be held accountable for any shortages of inventory except such shortages as may have arisen due to a lack of diligence on the part of the Operator.

7.0 **ADJUSTMENTS**

7.1 Payment of any invoice by a Participant shall not prejudice the right of that Participant to protest the correctness of the statement supporting the payment; provided, however, that all invoices and statements presented to each Participant by the Operator during any calendar year shall conclusively be presumed to be true and correct upon the expiration of 12 months following the end of the calendar year to which the invoice or statement relates, unless within that 12-month period that Participant gives notice to the Operator making claim on the Operator for an adjustment to the invoice or statement.

7.2 The Operator shall not adjust any invoice or statement in favour of itself after the expiration of 12 months following the end of the calendar year to which the invoice or statement relates.

7.3 Notwithstanding Sections 7.1 and 7.2 of this Schedule A, the Operator may make adjustments to an invoice or statement which arise out of a Count of Material or Assets within 60 days of the completion of the Count.

7.4 A Participant shall be entitled upon notice to the Operator to request that the independent external auditor of the Operator provide that Participant with its opinion that any invoice or statement delivered pursuant to the Agreement in respect of the period referred to in Section 7.1 of this Schedule A has been prepared in accordance with this Agreement.

7.5 The time for giving the audit opinion contemplated in Section 7.4 of this Schedule A shall not extend the time for the taking of exception to and making claims on the Operator for adjustment as provided in Section 7.1 of this Schedule A.

7.6 The cost of the auditor's opinion referred to in Section 7.4 of this Schedule A shall be solely for the account of the Participant requesting the auditor's opinion, unless the audit disclosed a material error adverse to that Participant, in which case the cost shall be solely for the account of the Operator.

7.7 Upon not less than 10 business days' notice to the Operator, and no more frequently than twice during the currency of each Operating Plan, a Participant shall be entitled to inspect the Joint Account, at the location(s) where such records are normally kept. All costs incurred in carrying out such inspection shall be borne by the Participant. All disagreements or discrepancies identified by the Participant shall be referred to the independent external auditor for final resolution.

SCHEDULE B

NET PROCEEDS OF PRODUCTION

1.0 OBLIGATION

1.1 If any non-Participant becomes entitled to a royalty pursuant to Section 7.12 or Section 10.2(b) of the Agreement, each Participant shall separately calculate, as at the end of each calendar quarter subsequent to the Completion Date, the Net Proceeds of Production.

1.2 Each Participant shall within 60 days of the end of each calendar quarter, as and when any Net Proceeds of Production are available for distribution:

- (a) severally pay or cause to be paid to each non-Participant that percentage of the Net Proceeds of Production to which that non-Participant is entitled under Section 7.12 or Section 10.2(b) of the Agreement; and
- (b) deliver to each non-Participant a statement indicating:
 - (i) the Gross Receipts during the calendar quarter;
 - (ii) the deductions therefrom made in the order itemized in Section 3.1 of this Schedule B;
 - (iii) the amount of Net Proceeds of Production remaining; and
 - (iv) the amount of those Net Proceeds of Production to which that non-Participant is entitled;

provided, however, that until such time as there are Net Proceeds of Production available, each Participant shall deliver to each non-Participant, within 60 days of the end of each calendar quarter commencing with the first calendar quarter following the Completion Date, a statement indicating the Gross Receipts during the calendar quarter less the deductions therefrom made in the order itemized in Section 3.1 of this Schedule B.

1.3 Nothing contained in the Agreement or this Schedule B shall be construed as:

- (a) imposing on a Participant any obligation with respect to the payments of royalty due hereunder to a non-Participant from any other Participant; or

- (b) conferring on any non-Participant any right to or interest in any Property or Assets except the right to receive royalty payments from each Participant as and when due.

1.4 The Participants agree that on the request of any non-Participant they will execute and deliver such documents as may be necessary to permit that non-Participant to record its royalty right against the Property.

2.0 **DEFINITIONS**

2.1 Terms defined in the Agreement shall, subject to any contrary intention, bear the same meaning herein.

2.2 In addition to the definitions of the classes of Costs provided in Section 1.1 of the Agreement and without limiting the generality thereof:

(a) **"Distribution Costs"** means all costs of:

- (i) transporting ore or concentrates from a Mine or a concentrating plant to a smelter, refinery or other place of delivery designated by the purchaser and, in the case of concentrates tolled, of transporting the concentrate or metal from a smelter or refinery to the place of delivery designated by the purchaser;
- (ii) handling, warehousing and insuring the concentrates and metal; and
- (iii) in the case of concentrates tolled, of smelting and refining, including any penalties thereon or in connection therewith.

(b) **"Interest Costs"** means interest computed each calendar quarter and calculated as follows:

- (i) the average of the opening and closing monthly outstanding balances for each month during the quarter of the net unrecovered amounts of all costs in the classes enumerated in Section 1.1 of the Agreement under the definition of "Costs" being (a) Constructions Costs, (b) Exploration Costs, (d) Operating Costs and (e) Prior Exploration Costs, and in Sections 2.2(a), (b), (c) and (d) of this Schedule B;

multiplied by:

- (ii) the Prime Rate plus 2%;

multiplied by:

- (iii) the number of days in the quarter;

divided by:

- (iv) the number of days in the Year.

- (c) **"Marketing Costs"** means such reasonable charge for marketing of diamonds, ores and concentrates sold or of concentrates tolled as is consistent with generally accepted industry marketing practices including, without limitation, costs of market analysis, preparation of diamonds for sale, collection of sale proceeds and the costs of all associated activities.
- (d) **"Taxes and Royalties"** means all taxes (other than income taxes), royalties or other charges or imposts provided for pursuant to any law or legal obligation imposed by any government in connection with a Participant's involvement in the Joint Operation if paid by the Participant.

2.3 Wherever used in this Schedule B, **"Gross Receipts"** means the aggregate of all receipts, recoveries or amounts received by or credited to a Participant in connection with its participation under the Agreement including, without limiting the generality of the foregoing:

- (a) the receipts from the sale of that Participant's proportionate share of the concentrates derived from the Mineral produced from the Mine;
- (b) all proceeds received from the sale of the Property or Assets subsequent to the Operative Date;
- (c) all insurance recoveries (including amounts received to settle claims) in respect of loss of, or damage to any portion of the Property or Assets subsequent to the Operative Date;
- (d) all amounts received as compensation for the expropriation or forcible taking of any portion of the Property or Assets subsequent to the Operative Date;

- (e) the fair market value, at the Property, of those Assets, if any, purchased for the Joint Account, that are transferred from the Property for use by a Participant elsewhere subsequent to the Operative Date; and
- (f) the amount of any negative balance remaining after the reallocation of negative balances pursuant to Section 3.3 of this Schedule B;

to the extent that those receipts, recoveries or amounts have not been applied by the Participant as a recovery of any of the classes of Costs itemized in Section 3.1 of this Schedule B.

3.0 **NET PROCEEDS OF PRODUCTION**

3.1 "Net Proceeds of Production" means the Gross Receipts minus deductions therefrom, to the extent of but not exceeding the amount of those Gross Receipts, of the then net unrecovered amounts of the following classes of Costs made in the following itemized order:

- (a) Marketing Costs;
- (b) Distribution Costs;
- (c) Operating Costs;
- (d) Taxes and Royalties;
- (e) Interest Costs;
- (f) Construction Costs;
- (g) Exploration Costs; and
- (h) Prior Exploration Costs;

it being understood that the deductions in respect of the Costs referred to in Sections 3.1(a), (b), (d) and (e) of this Schedule B shall be based on those Costs as recorded by that Participant and the deductions in respect of the Costs referred to in Sections 3.1(c), (f), (g) and (h) of this Schedule B shall be based on that Participant's Proportionate Share of those Costs as recorded by the Operator.

3.2 Any amount by which the aggregate of the Costs set out in Sections 3.1(a) to (h) inclusive in any quarter exceeds Gross Receipts for such quarter shall, together with any negative

balance carried forward from the previous quarter, be carried forward for deduction from Gross Receipts in the immediately succeeding quarter.

4.0 **ADJUSTMENTS AND VERIFICATION**

4.1 Payment of any Net Proceeds of Production by a Participant shall not prejudice the right of that Participant to adjust its own statement supporting the payment; provided, however, that all statements presented to the non-Participant by that Participant for any quarter shall conclusively be presumed to be true and correct upon the expiration of 12 months following the end of the quarter to which the statement relates, unless within that 12-month period that Participant gives notice to the non-Participant making claim on the non-Participant for an adjustment to the statement which will be reflected in subsequent payment of Net Proceeds of Production.

4.2 The Participant shall not adjust any statement in favour of itself after the expiration of 12 months following the end of the quarter to which the statement relates.

4.3 The non-Participant shall be entitled upon notice to any Participant to request that the auditor of that Participant provide the non-Participant with its opinion that any statement delivered pursuant to Section 1.1 of this Schedule B in respect of any quarterly period falling within the 12-month period immediately preceding the date of the non-Participant's notice has been prepared in accordance with this Agreement.

4.4 The time for giving the audit opinion contemplated in Section 4.3 of this Schedule B shall not extend the time for the taking of exception to and making claim on the non-Participant for adjustment as provided in Section 4.1 of this Schedule B.

4.5 The cost of the auditor's opinion referred to in Section 4.3 of this Schedule B shall be solely for the account of the non-Participant requesting the auditor's opinion, except where the said opinion is to the effect that the statement has not been prepared substantially in accordance with this Agreement, in which case the cost shall be solely for the account of the Participant.

SCHEDULE C

NORTON WEST PROPERTY DESCRIPTION

Location	Number	Staking Date	
Norton Lake	TB1187695	2001-SEP-24	6400
Norton Lake	TB1187696	2001-SEP-24	4000
Norton Lake	TB1187697	2001-SEP-17	6400
Norton Lake	TB1187698	2001-SEP-17	6400
Norton Lake	TB1187699	2001-SEP-17	6400
Norton Lake	TB1187700	2001-SEP-17	6400
Norton Lake	TB1187701	2001-SEP-17	6400
Norton Lake	TB1187702	2001-SEP-17	6400
Norton Lake	TB1187703	2001-SEP-17	64000
Norton Lake	TB1187704	2001-SEP-17	6400
Norton Lake	TB1187705	2001-SEP-17	6400
Norton Lake	TB1187706	2001-SEP-17	6400
Norton Lake	TB1187707	2001-SEP-24	6400
Norton Lake	TB1187708	2001-SEP-17	6400
Norton Lake	TB1240871	2000-NOV-28	6000

233 Claims

SCHEDULE D

NORTON EAST PROPERTY DESCRIPTION

Location	Number	Staking Date	
Norton Lake	TB1187709	2001-SEP-17	6400
Norton Lake	TB1187710	2001-SEP-17	3200
East of Norton Lake	TB1192792	2001-SEP-20	6400
East of Norton Lake	TB1192793	2001-SEP-20	6400
East of Norton Lake	TB1192794	2001-SEP-20	6400
East of Norton Lake	TB1192796	2001-SEP-20	6400
East of Norton Lake	TB1192797	2001-SEP-20	6400
East of Norton Lake	TB1192798	2001-SEP-20	6400
Norton Lake	TB1192791	2001-SEP-20	6400
Norton Lake	TB1192795	2001-SEP-20	6400
			152 Claims

SCHEDULE E

PROPERTY DESCRIPTION

Location	Number	Staking Date	Expiry Date	Status
Norton Lake	TB1187695	2001-SEP-24	2007-SEP-24	A
Norton Lake	TB1187696	2001-SEP-24	2007-SEP-24	A
Norton Lake	TB1187697	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187698	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187699	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187700	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187701	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187702	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187703	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187705	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187706	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187707	2001-SEP-24	2007-SEP-24	A
Norton Lake	TB1187708	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187709	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187710	2001-SEP-17	2007-SEP-17	A
East of Norton Lake	TB1192792	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192793	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192794	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192796	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192797	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192798	2001-SEP-20	2007-SEP-20	A
Norton Lake	TB1192791	2001-SEP-20	2007-SEP-20	A
Norton Lake	TB1240871	2000-NOV-28	2011-NOV-28	A

Norton Lake TB1192795 2001-SEP-20 2007-SEP-20 A

EXPIRED

Norton Lake TB1187704 2001-SEP-17 2006-SEP-17 E

NORTON LAKE PROPERTY

JOINT VENTURE AGREEMENT

CASCADIA INTERNATIONAL RESOURCES INC.

EAST WEST RESOURCE CORPORATION

CANADIAN GOLDEN DRAGON RESOURCES LTD.

December 15, 2006

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SCHEDULES:

Schedule A	Accounting Procedure
Schedule B	Net Proceeds of Production
Schedule C	Norton West Property Description
Schedule D	Norton East Property Description

THIS AGREEMENT made the 15th day of December, 2006

AMONG:

CASCADIA INTERNATIONAL RESOURCES INC., a company duly incorporated under the laws of Alberta and having its head office at Suite 1530, 715 – 5th Avenue, Calgary, Alberta T2P 2X6

(“**Cascadia**”)

AND:

EAST WEST RESOURCE CORPORATION, a company duly incorporated under the laws of the Province of Ontario and having its head office at 1204 Roland Street, Thunder Bay, Ontario P7B 5M4

(“**East West**”)

AND:

CANADIAN GOLDEN DRAGON RESOURCES LTD., a company duly incorporated under the laws of the Province of British Columbia and having its head office at Suite 402, 905 West Pender Street, Vancouver, BC V6C 1L6

(“**Golden Dragon**”)

WHEREAS:

- A. East West has entered into a property option agreement dated July 20, 2001 with R. Bruce Durham and R. Duess (the “**Durham Property**”) whereby East West can earn a 100% interest in the property by making certain cash payments, and issuing shares (the “**Durham Agreement**”);
- B. East West owns claims that are contiguous to the Durham Property (the “**Norton West Property**”);
- C. Golden Dragon owns claims (the “**Norton East Property**”) that are contiguous and to the east of the Norton West Property;

- D. East West and Golden Dragon have entered into an agreement dated July 18, 2003, effective February 1, 2003 whereby Golden Dragon transferred a 20% interest in the Norton East Property to East West and received a 20% interest in the Norton West Property from East West (hereinafter, collectively referred to as the **“Norton Lake Project”**);
- E. Cascadia, East West and Golden Dragon have entered into an agreement dated October 20, 2003 whereby Cascadia can earn a 51% interest in the Norton Lake Project by spending \$1,500,000 on or before November 1, 2010 and at Cascadia’s option completion of a feasibility study and agreeing to finance the property to production (the **“Norton Lake Agreement”**);and
- F. Cascadia was obligated under the agreement dated October 20, 2003 to make options payments over the term of seven (7) years totaling \$150,000 (the **“Option Payments”**) to be divided equally between the optionors;
- G. Cascadia, East West and Golden Dragon have agreed to form a joint venture agreement on the Norton West Property, Norton East Property, pursuant to the Underlying Agreement.
- H. Cascadia has spent \$1,500,000 on the Norton Lake Project and has expedited payment of all option payments totaling \$150,000;
- I. East West, Golden Dragon and Cascadia desire to enter into this joint venture agreement to govern the Joint Operations (as herein defined) on the Norton West Property, and the Norton East Property (hereinafter, collectively referred to as the **“Property”**).

NOW THEREFORE THIS AGREEMENT WITNESSETH that for good and valuable consideration (the receipt and sufficiency of which is hereby acknowledged by the parties), the parties hereby agree as follows:

1.0 **INTERPRETATION**

1.1 In this Agreement the following words, phrases and expressions shall have the following meanings:

“Accounting Procedure” means the procedure attached to this Agreement as Schedule A.

“Affiliate” shall have the meaning attributed to it in the *Canada Business Corporations Act*, as amended.

“Assets” means all tangible and intangible goods, chattels, improvements or other items including, without limiting generality, land, buildings, and equipment but excluding the Property, acquired for or made to the Property under this Agreement in connection with the Mining Operations.

“Completion Date” means the date determined by the Management Committee on which it is demonstrated to the satisfaction of the Management Committee that the preparing and equipping of the Mine is complete and is the date on which commercial production commences.

“Construction” means every kind of work carried out during the Construction Period by the Operator in accordance with the Feasibility Report and Production Notice related thereto, as approved by the Management Committee.

“Construction Period” means, unless the Production Notice is subsequently withdrawn, the period beginning on the date a Production Notice is given and ending on the Completion Date.

“Costs” means, except as to Prior Exploration Costs, all items of outlay and expense whatsoever, direct or indirect, with respect to Mining Operations, recorded by the Operator in accordance with this Agreement and shall include all obligations and liabilities incurred or to be incurred with respect to the protection of the environment such as future decommissioning, reclamation and long-term care and monitoring, even if not then due and payable so long as the amounts can be estimated with reasonable accuracy, and whether or not a mine reclamation trust fund has been established. Without limiting generality, the following categories of Costs shall have the following meanings:

- (a) **“Construction Costs”** means those Costs recorded by the Operator during the Construction Period, including, without limiting generality, the Operator’s fee contemplated in Section 11.0;
- (b) **“Exploration Costs”** means those Costs recorded by the Operator during the Exploration Period, including, without limiting generality, the Operator’s fee contemplated in Section 11.0;
- (c) **“Mine Costs”** means Construction Costs and Operating Costs;
- (d) **“Operating Costs”** means those Costs recorded by the Operator subsequent to the Completion Date, including, without limiting generality, the Operator’s fee contemplated in Section 11.0; and
- (e) **“Prior Exploration Costs”** means the deemed Expenditures of the parties under Section 7.9.

“Durham Agreement” means that agreement dated July 20, 2001 between R. Bruce Durham and R. Deuss and East West Resources Corporation

“Exploration Period” means the period beginning the Operative Date and ending the date a Production Notice is given and Construction Costs are fully committed.

“Feasibility Report” means a detailed report, in form and substance sufficient for presentation to arm’s length institutional lenders considering project financing, showing the feasibility of placing any part of the Property into commercial production as a Mine and shall include a reasonable assessment of the various categories of ore reserves and their amenability to metallurgical treatment, a complete description of the work, equipment and supplies required to bring such part of the Property into commercial production and the estimated cost thereof, a description of the mining methods to be employed and a financial appraisal of the proposed operations and including at least the following:

- (a) a description of that part of the Property to be covered by the proposed Mine;
- (b) the estimated recoverable reserves of Minerals and the estimated composition and content thereof;

- (c) the proposed procedure for development, mining and production;
- (d) results of ore amenability treatment tests (if any);
- (e) the nature and extent of the facilities proposed to be acquired, which may include mill facilities if the size, extent and location of the ore body makes such mill facilities feasible, in which event the study shall also include a preliminary design for such mill;
- (f) the total costs, including capital budget, which are reasonably required to purchase, construct and install all structures, machinery and equipment required for the proposed Mine, including a schedule of timing of such requirements;
- (g) all environmental impact studies and costs of implementation;
- (h) the period in which it is proposed the Property shall be brought to commercial production; and
- (i) such other data and information as are reasonably necessary to substantiate the existence of an ore deposit of sufficient size and grade to justify development of a mine, taking into account all relevant business, tax and other economic considerations including a cost comparison between purchasing or leasing and renting of facilities and equipment required for the operation of the Property as a Mine.

“Feasibility Report Date” means the date on which the Operator, or any other party or parties pursuant to Section 8.2 hereof, delivers a Feasibility Report to the Management Committee that is in compliance with National Instrument 43-101.

“Interest” means an undivided beneficial percentage interest in the Property, the Assets and any Mine, calculated, during the Exploration Period, according to Section 7.0 and subsequent to the Exploration Period according to Section 10.0.

“Joint Operation” shall have the meaning attributed to it in Section 2.1.

“Management Committee” means the committee established pursuant to Section 4.0.

“Mine” means the workings established and Assets acquired, including, without limiting generality, development headings, plant and concentrator installations, infrastructure, housing, airport and other facilities in order to bring the Property into commercial production in accordance with the Production Notice.

“Minerals” means any and all ores (and concentrates derived therefrom) and minerals, precious and base, metallic and nonmetallic, in, on or under the Property which may lawfully be explored for, mined and sold.

“Mining Operations” means every kind of work done by the Operator:

- (a) on or in respect of the Property in accordance with a Program or Production Notice or Operating Plan; or
- (b) if not provided for in a Program or Production Notice or Operating Plan, unilaterally and in good faith to maintain the Property in good standing, to prevent waste or to otherwise discharge any obligation which is imposed upon it pursuant to this Agreement and in respect of which the Management Committee has not given it directions;

including, without limiting generality, investigating, prospecting, exploring, developing, property maintenance, preparing reports, estimates and studies, designing, equipping, improving, surveying, construction and mining, milling, concentrating, rehabilitation, reclamation, and environmental protection.

“Net Proceeds of Production” shall have the meaning attributed to it in Schedule B.

“Norton East Property” means the mineral properties set out in Schedule D hereto.

“Norton West Property” means the mineral properties set out in Schedule C hereto.

“Operating Plan” means the annual plan of Mining Operations submitted pursuant to Section 14.2.

“Operative Date” means the date upon which this Agreement becomes effective.

“Operator” means the party appointed as the Operator in accordance with Section 5.0.

“Participant” means a party that is contributing to Exploration Costs or Mine Costs, as the case may be.

“party” or **“parties”** means the parties to this Agreement and their respective successors and permitted assigns which become parties pursuant to this Agreement.

“Prime Rate” means the rate of interest stated by the National Bank of Canada, Calgary, Alberta, as being charged by it on Canadian Dollar demand loans to its most creditworthy domestic commercial customers.

“Production Notice” means a notice which is given to each of the parties pursuant to Section 9.2.

“Program” means the work plan and budget of Mining Operations conducted during the Exploration Period and adopted pursuant to Section 7.2.

“Property” means the mineral properties of the Norton West Property and Norton East Property that become subject to this Agreement on the Operative Date, as set out in Schedule E hereto and any additional mineral properties that become part of the Property pursuant to this Agreement, the Minerals thereon, all information obtained from Mining Operations and those rights and benefits appurtenant to the Property that are acquired for the purpose of conducting Mining Operations.

“Proportionate Share” means that share which is equal to a party’s percentage Interest.

“Royalty Holders” means R. Bruce Durham and R. Duess who hold a Net Smelter Return royalty of 2% pursuant to the Underlying Agreement.

“Simple Majority” means a decision made by the Management Committee by more than 50% of the votes represented and entitled to be cast at a meeting thereof.

“**Special Majority**” means a decision made by the Management Committee by more than 60% of the votes represented and entitled to be cast at a meeting thereof.

“**Underlying Agreement**” means the agreement of July 20, 2001 among R. Bruce Durham and R. Duess and East West sometimes referred to as the Durham Agreement. Such agreement is attached as Schedule D to this Agreement.

“\$” means Canadian Dollars.

1.2 The words “**Section**”, “**herein**” and “**hereunder**” refer to this Agreement. The words “**this Agreement**” includes every Schedule attached hereto [**but excludes the Underlying Agreement.**]

1.3 The captions and the emphases of the defined terms have been inserted for convenience and do not define the scope of any provision.

2.0 **FORMATION OF THE JOINT VENTURE**

2.1 The parties hereby agree to associate and participate in a joint operation (herein called the “**Joint Operation**”) for the purpose of exploring the Property and, if deemed warranted, bringing the Property or a portion thereof into commercial production by establishing and operating a Mine.

2.2 Except as expressly provided in this Agreement, each party shall have the right independently to engage in and receive full benefits from business activities, whether or not competitive with the Joint Operation, without consulting any other party. The doctrines of “corporate opportunity” or “business opportunity” shall not be applied to any other activity, venture or operation of any party and no party shall have any obligation to another party with respect to any opportunity to acquire any assets outside of the Property at any time, or within the Property after the termination of this Agreement. Unless otherwise agreed in writing, no party shall have any obligation to mill, beneficiate or otherwise treat any Minerals or any other party’s share of Minerals in any facility owned or controlled by such party.

3.0 **INTERESTS**

3.1 Except as otherwise provided herein, the parties shall bear all Costs and all liabilities arising under this Agreement and the Underlying Agreement and shall own the Property, the Assets and any Mine all in proportion to their respective Interests.

3.2 East West and Golden Dragon hereby agree that the monies spent by Cascadia on its work program on the Norton Lake Project qualifies towards Cascadia's Earn-In Amount. East West and Golden Dragon further agree that Cascadia has spent a sufficient amount of money to satisfy the Earn-In Amount pursuant to the Norton Lake Option Agreement and has fulfilled all option payments such that at this time Cascadia shall have earned a 51% interest in the Joint Venture with respect to the Property

3.3 On the Operative Date the respective Interests of the parties shall be as follows:

On the Norton West Property

East West	39.2%
Golden Dragon	9.8%
Cascadia	51.0%

On the Norton East Property

East West	9.8%
Golden Dragon	39.2%
Cascadia	51.0%

3.4 The parties agree that any monies spent by a party on the Property, as agreed to in the Earn-In Confirmation letter dated December 14, 2006, shall be credited towards that parties overall expenditures on the Norton West Property and the Norton East Property collectively.

3.5 The parties acknowledge that the Net Smelter Return Royalty referenced in the Underlying Agreement may be purchased by the Joint Venture and that East West assigns its right to purchase the Net Smelter Return Royalty to the Joint Venture.

4.0 **MANAGEMENT COMMITTEE**

4.1 A Management Committee shall be established on or forthwith after the Operative Date. Except as herein otherwise provided, the Management Committee shall make all decisions in respect of Mining Operations.

4.2 Each party owning an Interest shall forthwith appoint one representative and one alternate representative to the Management Committee. The alternate representative may act for a party's representative in his absence.

4.3 The Operator shall call a Management Committee meeting at least once every 12 months, and, in any event within 14 days of being requested to do so by any representative.

4.4 The Operator shall give notice, specifying the time and place of, and the agenda for, the meeting to all representatives at least seven days before the time appointed for the meeting. Unless otherwise agreed to by the Management Committee, all meetings of the Management Committee shall be held in Calgary, Alberta, as long as Cascadia is the operator, but thereafter wherever the current operator decides. Each agenda for a meeting shall include the consideration and approval of the minutes of the immediately preceding meeting of the Management Committee.

4.5 Notice of a meeting shall not be required if representatives of all of the parties are present and unanimously agree upon the agenda.

4.6 A quorum for any Management Committee meeting shall be present if a representative of each of the parties holding an Interest is present. If a quorum is present at the meeting, the Management Committee shall be competent to exercise all of the authorities, powers and discretions herein bestowed upon it hereunder. The Management Committee shall not transact any business at a meeting unless a quorum is present at the commencement of the meeting. If a quorum is not present within 30 minutes following the time appointed for the commencement of the Management Committee meeting, the meeting shall be automatically re-scheduled for the same time of day and at the same place five business days later, and the Operator shall be under no obligation to give any party notice thereof. A quorum shall be deemed to be present at such re-scheduled meeting for all purposes under this Agreement if at least two representatives are present, and a party or parties holding not less than 25% in Interest is or are represented. A representative may attend and vote at a meeting of the Management Committee by telephone conference call in which each representative may hear, and be heard by, the other representatives.

4.7 The Management Committee shall decide every question submitted to it by a vote with each representative being entitled to cast that number of votes which is equal to its party's Interest percentage. Other than as is expressly set out herein to the contrary, the Management Committee shall make decisions by Simple Majority. In the event of a tied vote, the chairman shall have a casting vote in addition to the votes to which the chairman is entitled to cast as the representative of a party.

4.8 The representative and alternate representative of the Operator shall be the chairman and secretary, respectively, of the Management Committee meeting.

4.9 The secretary of the Management Committee meeting shall take minutes of that meeting and circulate copies thereof to each representative within a reasonable time following the termination of the meeting, and in any event no later than the time of delivery of the notice of the next following meeting of the Management Committee.

4.10 The Management Committee may make decisions by obtaining the consent in writing of the representatives of all parties. Any decision so made shall be as valid as a decision made at a duly called and held meeting of the Management Committee.

4.11 Management Committee decisions made in accordance with this Agreement shall be binding upon all of the parties.

4.12 Each party shall bear the expenses incurred by its representative and alternate representative in attending meetings of the Management Committee.

4.13 The Management Committee may, by agreement of the representatives of all the parties, establish such other rules of procedure, not inconsistent with this Agreement, as the Management Committee deems fit.

4.14 Reference in this Section to the “**parties**” shall apply during the Exploration Period. After the date of a Production Notice this Section shall be read as if the word “**Participant**” appeared wherever the word “**party**” appears.

5.0 **OPERATOR**

5.1 Cascadia shall act as Operator for so long as its Interest is 51% or more. If Cascadia’s Interest is less than 51%, the Management Committee shall select a party, if it so consents, to be the Operator.

5.2 The party acting as Operator may resign as Operator on at least 90 days’ notice to all the parties.

5.3 The Management Committee may, by Special Majority (with the Operator not being entitled to vote on such resolution), remove the party acting as Operator, effective the date designated by the Management Committee if:

- (a) that party makes an assignment for the benefit of its creditors, or consents to the appointment of a receiver for all or substantially all of its property, or files a petition in bankruptcy or is adjudicated bankrupt or insolvent; or
- (b) a court order is entered without that party's consent:
 - (i) appointing a receiver or trustee for all or substantially all of its property; or
 - (ii) approving a petition in bankruptcy or for a reorganization pursuant to the applicable bankruptcy legislation or for any other judicial modification or alteration of the rights of creditors; or
- (c) the Operator is in default under this Agreement and fails to cure such default, or to commence *bona fide* curative measures, within 30 days of receiving notice of the default from a non-Operator; or
- (d) the Operator fails to meet any of its obligations pursuant to Section 6.4; or
- (e) the Operator undergoes a change in "Control" (as hereinafter defined).

5.4 In Section 5.3, "**Control**" means the ability, directly or indirectly through one or more intermediaries, to direct or cause the direction of the management and policies of the Operator through:

- (a) the legal or beneficial ownership of voting securities;
- (b) the right to appoint managers, directors or corporate management;
- (c) contract;
- (d) operating agreement;

(e) voting trust;

or otherwise.

5.5 If a party resigns or is removed as Operator, the Management Committee (the representative of the former Operator not being entitled to vote on the resolution) shall thereupon select another party to become the Operator effective the date established by the Management Committee.

5.6 The new Operator shall assume all of the rights, duties, liabilities and status of the previous Operator as provided in this Agreement. The new Operator shall have no obligation to hire any employees of the former Operator resulting from this change of Operator.

5.7 Upon ceasing to be Operator, the former Operator shall forthwith deliver to the new Operator custody of all Assets, Property, books, records, and other property both real and personal which it prepared or maintained in its capacity as Operator.

5.8 If the Operator resigns or is removed and no other party consents to act as Operator, the Joint Operation shall be terminated and the party which was the Operator may, if it consents to act, continue to act as Operator to effect the termination and the other parties shall be obligated to fund their respective Proportionate Shares of the Costs incurred.

6.0 **RIGHTS, DUTIES AND STATUS OF OPERATOR**

6.1 The Operator in its operations hereunder shall be deemed to be an independent contractor. The Operator shall not act or hold itself out as agent for any of the parties nor make any commitments on behalf of any of the parties unless specifically permitted by this Agreement or directed in writing by a party.

6.2 Subject to any specific provision of this Agreement and subject to it having the right to reject any direction on reasonable grounds by virtue of its status as an independent contractor, the Operator shall perform its duties hereunder in accordance with the directions of the Management Committee and in accordance with this Agreement.

6.3 The Operator shall manage and carry out Mining Operations substantially in accordance with Programs, Feasibility Reports and Production Notices, Operating Plans, Mine Maintenance Plans and Mine Closure Plans adopted by the Management Committee and in

connection therewith shall, in advance if reasonably possible, notify the Management Committee of any change in Mining Operations which the Operator considers material and if it is not reasonably possible, the Operator shall notify the Management Committee so soon thereafter as is reasonably possible.

6.4 The Operator shall have the sole and exclusive right and authority to manage and carry out all Mining Operations in accordance herewith and to incur the Costs required for that purpose. In so doing the Operator shall:

- (a) comply with the provisions of all agreements or instruments of title under which the Property or Assets are held;
- (b) pay all Costs properly incurred promptly as and when due;
- (c) keep the Property and Assets free of all liens and encumbrances (other than those, if any, in effect on the Operative Date, those the creation of which is permitted pursuant to this Agreement, or builder's or mechanic's liens) arising out of the Mining Operations and, in the event of any lien being filed as aforesaid, proceed with diligence to contest or discharge the same;
- (d) with the approval of the Management Committee prosecute claims and, where a defence is available, defend litigation arising out of the Mining Operations, provided that any Participant may join in the prosecution or defence at its own expense;
- (e) subject to Section 20.6, perform such assessment work or make payments in lieu thereof and pay such rentals, taxes or other payments and do all such other things as may be necessary to maintain the Property in good standing, including, without limiting generality, staking and restaking mining claims, and applying for licenses, leases, grants, concessions, permits, patents and other rights to and interests in the Minerals;
- (f) maintain books of account in accordance with the Accounting Procedure, provided that the judgment of the Operator as to matters related to the accounting, for which provision is not made in the Accounting Procedure, shall govern if the Operator's accounting practices are in accordance with accounting principles generally accepted in the mining industry in Canada;

- (g) perform its duties and obligations hereunder in a sound and workmanlike manner, in accordance with sound mining and engineering practices and other practices customary in the Canadian mining industry, and in substantial compliance with all applicable federal, provincial, Territorial and municipal laws, bylaws, ordinances, rules and regulations and this Agreement;
- (h) prepare and deliver the reports provided for in Section 21.2; and
- (i) have such additional duties and obligations as the Management Committee may from time to time determine.

7.0 **EXPLORATION PROGRAMS**

7.1 The Operator shall prepare draft Programs for consideration by the Management Committee. Unless otherwise agreed to by a Special Majority, each Program shall cover a calendar year. The draft Program shall contain a statement in reasonable detail of the proposed Mining Operations, estimates of all Exploration Costs to be incurred and an estimate of the time when they will be incurred, and shall be delivered to each Participant by no later than 60 days prior to the period to which the draft Program relates. Each draft Program shall be accompanied by such reports and data as are reasonably necessary for each party to evaluate and assess the results from the Program for the then current year and, to the extent not previously delivered, from earlier Programs.

7.2 The Management Committee shall review the draft Program prepared and, if it deems fit, adopt the Program with such modifications, if any, as the Management Committee deems necessary. The Operator shall be entitled to an allowance for a Cost overrun of 20% in addition to any budgeted Exploration Costs and any Costs so incurred shall be deemed to be included in the Program, as adopted.

7.3 The Operator shall forthwith submit the adopted Program to the parties. Each party may, within 30 days of receipt of the Program, give notice to the Operator committing to contribute its Proportionate Share of the Exploration Costs for that Program. A party which fails to give that notice within the 30-day period shall be deemed to have elected not to contribute to that Program.

7.4 If any party elected not to contribute to a Program, the amounts to be contributed by the parties who elected to contribute shall be increased *pro rata*, subject to the right of any of them to elect, prior to the commencement of the Program, not to contribute more than its

Proportionate Share. If one or more party so elects to contribute no more than its Proportionate Share and the other parties do not elect to contribute *pro rata* to the resulting shortfall, the Operator shall in good faith revise the Program and Budget such that the technical objectives of the original Program are retained to the extent that is reasonably practicable given the reduced contributions to Costs. The Operator shall, within 15 days following the end of the 30-day period set out in Section 7.3, deliver to each party a copy of the said revised Program which, if the budget contemplates Costs of at least 80% of those contemplated in the original adopted Program, shall then be deemed for all purposes under this Agreement to be the adopted Program. If the budget for the revised Program contemplates Costs of less than 80% of those contemplated in the original adopted Program, the revised Program shall be re-submitted to the Management Committee as a draft Program pursuant to Section 7.1, and the procedure set out in Sections 7.1 to 7.4 inclusive shall be repeated.

7.5 The Operator shall be entitled to invoice each Participant:

- (a) no more frequently than monthly, for its Proportionate Share of Exploration Costs incurred and paid by the Operator in carrying out a Program; or
- (b) not more than 60 days in advance of requirements, for an advance of that Participant's Proportionate Share of Exploration Costs estimated to be incurred and paid by the Operator in carrying out a Program.

Each invoice shall be signed by a financial officer of the Operator. Each Participant shall pay to the Operator the amount invoiced within 30 days of receipt of the invoice. If a Participant protests the correctness of an invoice it shall nevertheless be required to make the payment.

7.6 If any Participant, after having committed to contribute pursuant to Section 7.3, fails to pay an invoice within the 30-day period referred to in Section 7.5 the Operator may by notice demand payment. If no payment is made within the period of 30 days next succeeding the receipt of the demand notice, that Participant shall be deemed to have forfeited its right to contribute to any further Costs under this Agreement and it shall be deemed to have elected not to contribute to each Program subsequently conducted and to any Production Notice, and accordingly, shall have its Interest reduced in the manner contemplated in Sections 7.9 and 10.2(b).

7.7 The Operator shall expend all monies advanced by a Participant ratably with the advances of the other Participants. If the Operator suspends or prematurely terminates a Program, any funds advanced by a Participant in excess of that Participant's Proportionate Share of Exploration Costs incurred prior to the suspension or premature termination shall be refunded within 60 days of the suspension or premature termination. Unless approved unanimously by the Management Committee, the Operator shall be exclusively liable for the payment of all Costs incurred in excess of 120% of any budgeted Exploration Costs.

7.8 Unless otherwise directed by the Management Committee, the Operator may suspend or terminate prematurely any Program when the Operator, in good faith, considers that conditions are not suitable for the proper continuation or completion of the Program or the results obtained to that time eliminate or substantially impair the technical rationale on which the Program was based. If any Program is altered, suspended or terminated prematurely so that the Exploration Costs incurred on that Program as altered, suspended or terminated are less than 80% of the Exploration Costs set out in the adopted Program, any party which elected not to contribute to that Program shall be given notice of the alteration, suspension or termination by the Operator and shall be entitled to contribute its Proportionate Share of the Exploration Costs incurred on that Program by payment thereof to the Operator within 30 days after receipt of the notice, but shall not be entitled to review the results of the Program until it has made full payment. If payment is not made by that party within the 30 days aforesaid it shall forfeit its right to contribute to that Program without a demand for payment being required to be made thereafter by the Management Committee. If payment is made by that party within the 30 days as aforesaid, the Operator shall distribute the payment to the original Participants *pro rata* according to their respective contributions to the Program, and shall deliver to the new Participant copies of all data previously delivered to the other Participants with respect to that Program

7.9 If a party elected not to contribute to the Exploration Costs of any Program the Interest of that party shall be decreased and the Interest of each Participant contributing in excess of its Proportionate Share of the Exploration Costs shall be increased so that, subject to Section 7.10, at all times during the Exploration Period the Interest of each party will be that percentage which is equivalent to its Exploration Costs and Prior Exploration Costs expressed as a percentage of the Exploration Costs and Prior Exploration Costs of all parties. Notwithstanding the foregoing but subject to Section 7.10 hereof, the party whose Interest has been reduced (other than a party who has forfeited the right to contribute pursuant to Section 7.6) shall be entitled to receive details of and to contribute to future Programs to the extent of its then

Interest. On the Operative Date, the parties' respective Interests and Prior Exploration Costs shall be deemed to be as follows:

Norton West

	<u>Deemed Prior Exploration Costs</u>	<u>Interest</u>
East West	\$1,152,941	39.2 %
Golden Dragon	\$288,235	9.8 %
Cascadia	\$1,500,000	51.0%

Norton East

	<u>Deemed Prior Exploration Costs</u>	<u>Interest</u>
East West	\$28,823	9.8 %
Golden Dragon	\$115,294	39.2 %
Cascadia	\$150,000	51.0%

7.10 If the effect of the application of Section 7.9 is to reduce the Interest of any party to less than 5%, such party shall then be deemed to have assigned and conveyed its Interest to the Participants, if more than one then in proportion to their respective Interests, and shall be entitled to receive as its sole remuneration and benefit in consideration of that assignment and conveyance, by way of royalty, 2% of Net Proceeds of Production, subject to adjustment as provided in Section 7.12.

7.11 If the Operator fails to submit a draft Program or a revised Program by the date set out in this Agreement, the following shall apply:

- (a) the Operator shall not be entitled to submit a draft Program or revised Program for the subject period;
- (b) any Participant other than the Operator whose Interest is not less than 20% may, within 15 days following the date by which the Operator's draft Program or revised Program was due, submit a draft Program (the "**Non-Operator's Program**") for the subject period for consideration by the Management Committee;
- (c) the Management Committee shall review the Non-Operator's Program and, if it deems fit (the Operator not being entitled to vote with respect thereto), adopt the Non-Operator's Program with such modifications, if any, as the Management Committee deems necessary; the adopted Program shall then be submitted to the parties pursuant to Section 7.3;

(d) if the Operator is a party and elects to contribute to the Non-Operator's Program, it shall remain as the Operator for the duration of the Non-Operator's Program;

(e) if the Operator is a party and elects not to contribute to the Non-Operator's Program, it shall cease to be the Operator for the duration of the Non-Operator's Program, and the Management Committee shall appoint another party as Operator (the former Operator not being entitled to vote with respect thereto);

(f) following the completion of the Non-Operator's Program the former Operator shall, subject to the provisions of Section 5.1, automatically become the Operator.

7.12 Each of East West, Golden Dragon and Cascadia hereby agree that the maximum royalty to which it and its assigns shall be collectively entitled pursuant to this Agreement is 2% of Net Proceeds of Production. For example, if:

(a) East West assigns a part of its Interest to a third party pursuant to this Agreement; and

(b) East West then becomes entitled to receive 2% of Net Proceeds of Production pursuant to Section 7.10 or Section 10.2(b); and

(c) the said third party then also becomes entitled to receive Net Proceeds of Production pursuant to Section 7.10 or Section 10.2(b),

then East West and such third party shall collectively be entitled to receive 2% of Net Proceeds of Production, allocated between them on a proportionate basis based upon the respective Prior Exploration Costs and Exploration Costs of each of East West and such third party at the time that the assignment and conveyance of its Interest took place.

8.0 **FEASIBILITY REPORT**

8.1 Except as provided in Section 8.2, a Feasibility Report shall only be prepared with the approval of the Management Committee. The Operator shall provide copies of the completed Feasibility Report to each of the parties forthwith upon receipt, together with copies of all of the latest technical data and information generated or received by the Operator from the immediately preceding Program and not contained in the Feasibility Report.

8.2 Notwithstanding the provisions of Section 8.1, if a party (the “**Proponent**”) is of the view that a Feasibility Report should be prepared, such party shall give notice thereof to the Operator and the Operator shall call a Management Committee meeting to consider the matter. If the Management Committee fails to approve the preparation of the Feasibility Report supported by the Proponent, the Proponent may, either alone or with other parties, at its or their sole cost, prepare a Feasibility Report. If such Feasibility Report indicates that production from the Property would be profitable to the Proponent, the Proponent shall deliver the Feasibility Report to the Operator who shall then call a Management Committee meeting to consider the Proponent’s Feasibility Report. If the Management Committee adopts the Feasibility Report, the non-contributing parties may either pay the Proponent an amount equal to 150% of their respective proportionate costs of the preparation of the Feasibility Report, or shall suffer reduction of their respective Interests pursuant to Section 7.9. Upon the adoption by the Management Committee of the Proponent’s Feasibility Report, it shall become a Feasibility Report for all purposes hereunder.

8.3 The parties shall meet at reasonable intervals and times to review the Feasibility Report and discuss whether the establishing and bringing of a Mine into commercial production in conformity with the Feasibility Report is feasible or desirable.

9.0 **PRODUCTION NOTICE**

9.1 The Operator shall call a Management Committee meeting to consider the Feasibility Report for a date no sooner than three months and no later than six months after the Feasibility Report was provided to each of the parties.

9.2 The Management Committee shall consider the Feasibility Report prepared and may by Special Majority, approve the Feasibility Report, with such modifications, if any, as it considers necessary or desirable, together with an estimate of Construction Costs. If a Feasibility Report is approved as aforesaid the Management Committee shall forthwith cause a Production Notice to be given to each of the parties by the Operator stating that the Management Committee has approved that a Mine be established and brought into production in conformity with the Feasibility Report and estimated Construction Costs as so approved.

10.0 **ELECTION TO CONTRIBUTE**

10.1 Each party with an Interest may, within 60 days of the receipt of the Production Notice, give the Operator notice committing to contribute its Proportionate Share of Construction

Costs. A party which fails to give that notice within the 60-day period shall be deemed to have elected not to contribute to Construction Costs.

10.2 If any party elects not to contribute to Construction Costs that party, subject to its rights under Section 10.4, shall forfeit the right to contribute to any further Costs under this Agreement, and those parties which elected to contribute as aforesaid may thereupon elect to increase their contribution to Construction Costs, if more than one party then in proportion to their respective Interests, by the amount which any party has declined to contribute. If elections are made so that Construction Costs are fully committed:

- (a) the Interest of each Participant shall be increased and that of each non-Participant shall be decreased as Costs are incurred so that the Interest of each party at all times is that percentage which is equivalent to:
 - (i) the sum of its Exploration Costs, its Prior Exploration Costs and its contribution to Construction Costs;
divided by:
 - (ii) the sum of the total Exploration Costs, total Prior Exploration Costs and the total Construction Costs of all the parties;
multiplied by:
(iii) 100;
- (b) then, at the Completion Date, each non-Participant shall be deemed to have assigned and conveyed its Interest to the Participants, if more than one then in proportion to their respective Interests, and shall be entitled to receive as its sole remuneration and benefit in consideration of that assignment and conveyance, by way of royalty, subject to adjustment as provided in Section 7.12, that percent of the Net Proceeds of Production, as and when available, which is equivalent to the Interest, calculated at the Completion Date;
- (c) each Participant shall severally calculate and cause to be paid to each non-Participant any Net Proceeds of Production derived from the Property in the manner provided in Schedule B; and
- (d) notwithstanding the provisions of Sections 10.2(b) and (c), if the effect of the application of Section 10.2(a) reduces any party's Interest to less than 1% it shall forfeit its Interest to the Participants, if more than one then in proportion to their

respective Interests, and that party shall have no further right or interest under this Agreement.

10.3 If, after the operation of Section 10.2, Construction Costs are not fully committed the Production Notice shall be deemed to be withdrawn, and shall not be resubmitted, either in the same or a revised form, for a period of at least six months following such withdrawal.

10.4 If, after the operation of Section 10.2, Construction Costs are fully committed, the Participants shall diligently proceed with bringing a Mine into production in substantial conformity with the Feasibility Report. If the Participants fail to commence the implementation of the Feasibility Report within 12 months of Construction Costs being fully committed, for reasons other than general economic conditions in the mining industry, any party which forfeited the right to contribute to Construction Costs pursuant to Section 10.2 shall have the right, exercisable in the 30 days following the expiration of such 12-month period, to reacquire from the Participants not less than all of its Interest as last held, by paying its Proportionate Share of Construction Costs incurred to the end of such 12-month period (together with interest at the Prime Rate plus 3%) to the Participants in proportion to their respective Interests.

10.5 During the 12-month period referred to in Section 10.4, neither the Operator nor any Participant shall be obliged to provide any non-Participant with the results of any work carried out on the Property, the Participants' sole obligation during such period being to provide any non-Participant, on the written request of such non-Participant made only once during the said 12 months, with a summary of the nature of the work carried out and the total Costs thereof.

11.0 **OPERATOR'S FEE**

11.1 The Operator may charge the following sums in return for its head office overhead functions which are not charged directly:

- (a) with respect to Programs:
 - (i) 3% for each individual contract which expressly includes an overhead charge by the party contracted;
 - (ii) 5% for each individual contract which exceeds \$100,000 and is not subject to Section 11.1(a)(i) hereof; or
 - (iii) 10% of all other Costs not included in Sections 11.1(a)(i) and 11.1(a)(ii);

- (b) with respect to Construction: 5% of all other such Costs; and
- (c) subsequent to the Completion Date: 3% of all Operating Costs.

12.0 **MINE FINANCING**

12.1 The contributions of the Participants toward the Mine Costs shall be individually and separately provided by them.

12.2 Any party may pledge, mortgage, charge or otherwise encumber its Interest in order to secure moneys borrowed and used by that party for the sole purpose of enabling it to finance its participation under this Agreement or in order to secure by way of floating charge as a part of the general corporate assets of that party moneys borrowed for its general corporate purposes, provided that the pledgee, mortgagee, holder of the charge or encumbrance (in this Section called the “**Chargee**”) shall hold the same subject to the provisions of this Agreement and that if the Chargee realizes upon any of its security it will comply with this Agreement. The Agreement between the party hereto, as borrower, and the Chargee shall contain specific provisions to the same effect as the provisions of this Section.

13.0 **CONSTRUCTION**

13.1 Subject to Sections 10.2 and 10.3, the Management Committee shall cause the Operator to, and the Operator shall, proceed with Construction with all reasonable dispatch after a Production Notice has been given. Construction shall be substantially in accordance with the Feasibility Report subject to any variations proposed in the Production Notice, and subject also to the right of the Management Committee to cause such other reasonable variations in Construction to be made as the Management Committee, by Special Majority, deems necessary and advisable.

14.0 **OPERATION OF THE MINE**

14.1 Commencing on the Completion Date, all Mining Operations shall be planned and conducted and all estimates, reports and statements shall be prepared and made on the basis of a calendar year.

14.2 With the exception of the year in which the Completion Date occurs, an Operating Plan for each calendar year shall be submitted by the Operator to the Participants not later than

November 1 in the year immediately preceding the calendar year to which the Operating Plan relates. Each Operating Plan shall contain the following:

- (a) a description of the proposed Mining Operations;
- (b) a detailed estimate of all Mine Costs plus a reasonable allowance for contingencies;
- (c) an estimate of the quantity and quality of the ore to be mined and the concentrates or metals or other products and by-products to be produced; and
- (d) such other facts as may be necessary to reasonably illustrate the results intended to be achieved by the Operating Plan.

Upon request of any Participant the Operator shall meet with that Participant to discuss the Operating Plan and shall provide such additional or supplemental information as that Participant may reasonably require with respect thereto.

14.3 The Management Committee shall adopt each Operating Plan, with such changes as it deems necessary, by November 30 in the year immediately preceding the calendar year to which the Operating Plan relates; provided, however, that the Management Committee, by Special Majority, may from time to time and any time amend any Operating Plan.

14.4 The Operator shall include in the estimate of Mine Costs referred to in Section 14.2(b) hereof the establishment of a trust or escrow fund providing for the reasonably estimated costs of satisfying continuing obligations that may remain after the permanent termination of Mining Operations, in excess of amounts actually expended. Such continuing obligations are or will be incurred as a result of the Joint Operation and shall include such things as monitoring, stabilization, reclamation or restoration obligations, severance and other employee benefit costs and all other obligations incurred or imposed as a result of the Joint Operation which continue or arise after the permanent termination of Mining Operations and the termination of this Agreement and settlement of all accounts. The payment of such continuing obligations shall be made on the basis of units of production, and shall be in amounts reasonably estimated to provide over the lifetime of proven and probable reserves funds adequate to pay for such reclamation and long term care and monitoring. The Participants shall contribute to the trust or escrow fund cash (or provide letters of credit or other forms of security readily convertible to cash in form approved by the Management Committee). The amount contributed

from time to time for the satisfaction of such continuing obligations shall be classified as Costs hereunder but shall be segregated into a separate account.

15.0 **PAYMENT OF MINE COSTS**

15.1 The Operator may invoice each Participant, from time to time, for that Participant's Proportionate Share of Construction Costs or Operating Costs incurred to the date of the invoice, or at the beginning of each month for an advance equal to that Participant's Proportionate Share of the estimated cash disbursements to be made during the month. Each Participant shall pay its Proportionate Share of the Construction Costs or Operating Costs or the estimated cash disbursements aforesaid to the Operator within 30 days after receipt of the invoice. If the payment or advance requested is not so made, the amount of the payment or advance shall bear interest calculated monthly not in advance from the 30th day after the date of receipt of the invoice thereof by that Participant at a rate equivalent to the weighted average Prime Rate for the month plus 3% until paid. The Operator shall have a lien on each Participant's Interest in order to secure that payment or advance together with interest which has accrued thereon.

15.2 If any Participant fails to pay an invoice contemplated in Section 15.1 within the 30-day period aforesaid, the Operator may, by notice, demand payment. If no payment is made within 30 days of the Operator's demand notice, the Operator may, without limiting its other rights at law, enforce the lien created by Section 15.1 by taking possession of all or any part of that Participant's Interest. The Operator may sell and dispose of the Interest which it has so taken into its possession by:

- (a) first offering that Interest to the other Participants, if more than one then in proportion to the respective Interests of the Participants who wish to accept that offer, for that price which is the fair market value stated in the lower of two appraisals obtained by the Operator from independent, well recognized appraisers competent in the appraisal of mining properties; and
- (b) if the Participants have not purchased all or part of that Interest as aforesaid, then by selling the balance, if any, either in whole or in part or in separate parcels at public auction or by private tender (the Participants being entitled to bid) at a time and on whatever terms the Operator shall arrange, having first given notice to the defaulting Participant of the time and place of the sale.

As a condition of the sale as contemplated in Section 15.2(b), the purchaser shall agree to be bound by this Agreement and, prior to acquiring the Interest, shall deliver notice to that effect to the parties, in form acceptable to the Operator. The proceeds of the sale shall be applied by the Operator in payment of the amount due from the defaulting Participant and interest as aforesaid, and the balance remaining, if any, shall be paid to the defaulting Participant after deducting reasonable costs of the sale. Any sale or disposal made as aforesaid shall be a perpetual bar both at law and in equity by the defaulting Participant and its successors and assigns against all other Participants.

16.0 **DISTRIBUTION IN KIND**

16.1 It is expressly intended that, upon implementation of any Production Notice hereunder, the association of the parties hereto shall be limited to the efficient production of Minerals from the Property and related activities, and that each of the parties shall be entitled to use, dispose of or otherwise deal with its Proportionate Share of Minerals as it sees fit. Each Participant shall take in kind, f.o.b. truck or railcar on the Property, and separately dispose of its Proportionate Share of the Minerals produced from the Mine. From the time of delivery, each Participant shall have ownership of and title to its Proportionate Share of Minerals separate from, and not as tenant in common with, the other Participants, and shall bear all risk of loss of Minerals. Extra costs and expenses incurred by reason of the Participants taking in kind and making separate dispositions shall be paid by each Participant directly and not through the Operator or Management Committee.

16.2 Each Participant shall construct, operate and maintain, all at its own cost and expense, any and all facilities which may be necessary to receive and store and dispose of its Proportionate Share of the Minerals at the rate the same are produced.

16.3 If a Participant has not made the necessary arrangements to take in kind and store its share of production as aforesaid the Operator shall, at the sole cost and risk of that Participant store, in any location where it will not interfere with Mining Operations, the production owned by that Participant. The Operator and the other parties shall be under no responsibility with respect thereto. All of the Costs involved in arranging and providing storage shall be billed directly to, and be the sole responsibility of the Participant whose share of production is so stored. The Operator's charges for such assistance and any other related matters shall be billed directly to and be the sole responsibility of the Participant. All such billings shall be subject to the provisions of Sections 15.1 and 15.2 hereof.

17.0 **SURRENDER OF INTEREST**

17.1 Any party not in default hereunder may, at any time upon notice, surrender its entire Interest to the other parties by giving those parties notice of surrender. The notice of surrender shall:

- (a) indicate a date for surrender not less than three months after the date on which the notice is given; and
- (b) contain an undertaking that the surrendering party will:
 - (i) satisfy its Proportionate Share, based on its then Interest, of all obligations and liabilities which arose at any time prior to the date of surrender;
 - (ii) if the Operator has not included in Mine Costs the costs of continuing obligations as set out in Section 14.4 hereof, pay on the date of surrender its reasonably estimated Proportionate Share, based on the surrendering party's then Interest, of the Costs of rehabilitating the Mine site and of reclamation based on the Mining Operations completed as at the date of surrender; and
 - (iii) will hold in confidence, for a period of two years from the date of surrender, all information and data which it acquired pursuant to this Agreement.

17.2 Upon the surrender of its entire Interest as contemplated in Section 17.1 and upon delivery of a release in writing, in form acceptable to counsel for the Operator, releasing the other parties from all claims and demands hereunder, the surrendering party shall be relieved of all obligations or liabilities hereunder except for those which arose or accrued or were accruing due on or before the date of the surrender.

17.3 A party to whom a notice of surrender has been given as contemplated in Section 17.1 may elect, by notice within 90 days to the party which first gave the notice to accept the surrender, in which case Sections 17.1 and 17.2 shall apply, or to join in the surrender. If all of the parties join in the surrender the Joint Operation shall be terminated in accordance with Section 18.0.

18.0 **TERMINATION OF MINING OPERATIONS**

18.1 The Operator may, at any time subsequent to the Completion Date, on at least 30 days' notice to all Participants, recommend that the Management Committee approve that the Mining Operations be suspended. The Operator's recommendation shall include a plan and budget (in this Section 18.0 called the "**Mine Maintenance Plan**"), in reasonable detail, of the activities to be performed to maintain the Assets and Property during the period of suspension and the Costs to be incurred. The Management Committee may, by **Special Majority**, at any time subsequent to the Completion Date, cause the Operator to suspend Mining Operations in accordance with the Operator's recommendation with such changes to the Mine Maintenance Plan as the Management Committee deems necessary. The Participants shall be committed to contribute their Proportionate Share of the Costs incurred in connection with the Mine Maintenance Plan. The Management Committee, by **Special Majority**, may cause Mining Operations to be resumed at any time.

18.2 The Operator may, at any time following a period of at least 90 days during which Mining Operations have been suspended, upon at least 30 days' notice to all Participants, or in the events described in Section 18.1, recommend that the Management Committee approve the permanent termination of Mining Operations. The Operator's recommendation shall include a plan and budget (in this Section 18.0 called the "**Mine Closure Plan**"), in reasonable detail, of the activities to be performed to close the Mine and reclaim and rehabilitate the Property, as required by applicable law, regulation or contract by reason of this Agreement. The Management Committee may, by unanimous approval of the representatives of all Participants, approve the Operator's recommendation with such changes to the Mine Closure Plan as the Management Committee deems necessary.

18.3 If the Management Committee approves the Operator's recommendation as aforesaid, it shall cause the Operator to:

- (a) implement the Mine Closure Plan, whereupon the Participants shall be committed to pay, in proportion to their respective Interests, such Costs as may be required to implement that Mine Closure Plan;
- (b) remove, sell and dispose of such Assets as may reasonably be removed and disposed of profitably and such other Assets as the Operator may be required to remove pursuant to applicable environmental and mining laws; and
- (c) sell, abandon or otherwise dispose of the Assets and the Property.

The disposal price for the Assets and the Property shall be the best price reasonably obtainable and the net revenues, if any, from the removal and sale shall be credited to the Participants in proportion to their respective Interests.

18.4 If the Management Committee does not approve the Operator's recommendation contemplated in Section 18.2, the Operator shall maintain Mining Operations in accordance with the Mine Maintenance Plan as pursuant to Section 18.1.

19.0 **THE PROPERTY**

19.1 Title to the Property shall be held in the name of **the Operator** in trust for the parties in proportion to their respective Interests as adjusted from time to time. Each of the parties shall have the right to receive, forthwith upon making demand therefor from **the Operator**, such documents as it may reasonably require to confirm its Interest.

19.2 This Agreement, or a memorandum of this Agreement, shall, upon the written request of any party, be recorded in the office of any governmental agency so requested, in order to give notice to third parties of the respective interests of the parties in the Property and this Agreement. Each party hereby covenants and agrees with the requesting party to execute such documents as may be necessary to perfect such recording and to pay the cost of such recording in proportion to their respective Interest as at the date of the **request/recording**.

20.0 **AREA OF COMMON INTEREST**

20.1 The area of common interest shall be deemed to comprise that area which is included within three (3) kilometers of the outermost boundary of the mineral properties which constitute the Property as at the Operative Date. It is understood that the area of common interest may be expanded pursuant to provisions of the Underlying Agreement. Notwithstanding the forgoing, for further clarity, any potential claims within the ACI lying to the west of a vertical line extending the common boundary shall belong to the Norton West Property and any claims lying to the east of such line shall belong to the Norton East Property.

20.2 If at any time during the subsistence of this Agreement any party or the Affiliate of any party (in this Section only called in each case the "**Acquiring Party**") stakes or otherwise acquires, directly or indirectly, any right to or interest in any mining claim, licence, lease, grant, concession, permit, patent, or other mineral property located wholly or partly within the area of interest referred to in Section 20.1, the Acquiring Party shall forthwith give notice to the other

parties of that staking or acquisition, the total cost thereof and all details in the possession of that party with respect to the details of the acquisition, the nature of the property and the known mineralization.

20.3 The Management Committee (the representative of the Acquiring Party not being entitled to vote with respect thereto) may, within 30 days of receipt of the Acquiring Party's notice, elect, by notice to the Acquiring Party, to require that the mineral properties and the right or interest acquired be included in and thereafter form part of the Property for all purposes of this Agreement.

20.4 If the election aforesaid is made, all the other parties shall reimburse the Acquiring Party for that portion of the cost of acquisition which is equivalent to their respective Interests.

20.5 If the Management Committee does not make the election aforesaid within that period of 30 days, the right or interest acquired shall not form part of the Property and the Acquiring Party shall be solely entitled thereto.

20.6 Notwithstanding Section 6.4(e), the Operator shall be entitled, at any time and from time to time to surrender all or any part of the Property or to permit the same to lapse, but only upon first either obtaining the unanimous consent of the Management Committee, or giving 60 days' notice of its intention to do so to the other parties. In this latter event, the parties, other than the Operator, shall be entitled to receive from the Operator, on request prior to the date of the surrender or lapse, *pro rata* in accordance with their respective Interests, a conveyance of that portion of the Property intended for surrender or lapse, together with copies of any plans, assay maps, diamond drill records and factual engineering data in the Operator's possession and relevant thereto. Any part of the Property so acquired shall cease to be subject to this Agreement and shall not be subject to Section 20.2. Any part of the Property which has not been so acquired by any of the parties shall remain subject to Section 20.2.

21.0 **INFORMATION AND DATA**

21.1 At all times during the subsistence of this Agreement the duly authorized representatives of each Participant shall, at its and their sole risk and expense and at reasonable intervals and times, have access to the Property and to all technical records and other factual engineering data and information relating to the Property which is in the possession of the Operator.

21.2 During the Exploration Period while Programs are being carried out, the Operator shall furnish the Participants with monthly progress reports and with a final report within 60 days following the conclusion of each Program. The final report shall show the Mining Operations performed and the results obtained and shall be accompanied by a statement of Costs and copies of pertinent plans, assay maps, diamond drill records and other factual engineering data. During the Construction Period and during the implementation of an Operating Plan the Operator shall provide monthly progress reports to the Participants, which report shall include information on any changes or developments affecting the Mine that the Operator considers are material.

21.3 All information and data concerning or derived from the Mining Operations shall be kept confidential and, except to the extent required by law or by regulation of any Securities Commission or Stock Exchange, shall not be disclosed to any person other than an Affiliate without the prior consent of all the Participants, which consent shall not unreasonably be withheld.

21.4 The text of any news releases or other public statements which a party intends to make with respect to the Property or this Agreement shall, to the extent practicable, be made available to the other parties prior to publication and the other parties shall have the right to make suggestions for changes therein.

22.0 **LIABILITY OF THE OPERATOR**

22.1 Subject to Section 22.2, each party shall indemnify and save the Operator harmless from and against any loss, liability, claim, demand, damage, expense, injury or death (including, without limiting the generality of the foregoing, legal fees) resulting from any acts or omissions of the Operator or its officers, employees or agents.

22.2 Notwithstanding Section 22.1, the Operator shall not be indemnified nor held harmless by any of the parties for any loss, liability, claim, damage, expense, injury or death, (including, without limiting the generality of the foregoing, legal fees) resulting from the negligence or willful misconduct of the Operator or its officers, employees or agents.

22.3 An act or omission of the Operator or its officers, employees or agents done or omitted to be done:

- (a) at the direction of, or with the concurrence of, the Management Committee; or

(b) unilaterally and in good faith by the Operator to protect life or property,

shall be deemed not to be negligence or willful misconduct.

22.4 The obligation of each party to indemnify and save the Operator harmless pursuant to Section 22.1 shall be in proportion to its Interest as at the date that the loss, liability, claim, demand, damage, expense, injury or death occurred or arose.

22.5 The Operator shall not be liable to any other party nor shall any party be liable to the Operator in contract, tort or otherwise for special or consequential damages, including, without limiting the generality of the foregoing, loss of profits or revenues.

23.0 **INSURANCE**

23.1 Commencing on the Operative Date, the Management Committee shall cause the Operator to place and maintain with a reputable insurer or insurers such insurance, if any, as the Management Committee in its discretion deems advisable in order to protect the parties together with such other insurance as any Participant may by notice reasonably request. The Operator shall, upon the written request of any Participant, provide it with evidence of that insurance.

23.2 Section 23.1 shall not preclude any party from placing, for its own account insurance for greater or other coverage than that placed by the Operator.

24.0 **RELATIONSHIP OF PARTIES**

24.1 The rights, duties, obligations and liabilities of the parties shall be several and not joint nor joint and several, it being the express purpose and intention of the parties that their respective Interests shall be held as tenants in common.

24.2 Nothing herein contained shall be construed as creating a partnership of any kind or as imposing upon any party any partnership duty, obligation or liability to any other party hereto.

24.3 No party shall, except when required by this Agreement or by any law, bylaw, ordinance, rule, order or regulation, use, suffer or permit to be used, directly or indirectly, the name of any other party for any purpose related to the Property or this Agreement.

25.0 **PARTITION**

25.1 Each of the parties hereto waives, during the term of this Agreement, any right to partition of the Property or the Assets or any part thereof and no party shall seek to be entitled to partition of the Property or the Assets whether by way of physical partition, judicial sale or otherwise during the term of this Agreement.

26.0 **TAXATION**

26.1 All Costs incurred hereunder shall be for the account of the party or parties making or incurring the same, if more than one then in proportion to their respective Interests, and each party on whose behalf any Costs have been incurred shall be entitled to claim all tax benefits, write-offs, and deductions with respect thereto.

27.0 **FORCE MAJEURE**

27.1 Notwithstanding anything herein contained to the contrary, if any Participant is prevented from or delayed in performing any obligation under this Agreement, and such failure is occasioned by any cause beyond its reasonable control, excluding only lack of finances, then, subject to Section 27.2, the time for the observance of the condition or performance of the obligation in question shall be extended for a period equivalent to the total period the cause of the prevention or delay persists or remains in effect regardless of the length of such total period.

27.2 Any party hereto claiming suspension of its obligations as aforesaid shall promptly notify the other parties to that effect and shall take all reasonable steps to remove or remedy the cause and effect of the force majeure described in the said notice insofar as it is reasonably able so to do and as soon as possible; provided that the terms of settlement of any labour disturbance or dispute, strike or lockout shall be wholly in the discretion of the party claiming suspension of its obligations by reason thereof, and that party shall not be required to accede to the demands of its opponents in any such labour disturbance or dispute, strike, or lockout solely to remedy or remove the force majeure thereby constituted. The party claiming suspension of its obligations shall promptly notify the other parties when the cause of the Force Majeure has been removed.

27.3 The extension of time for the observance of conditions or performance of obligations as a result of force majeure shall not relieve the Operator from its obligations to keep the Property in good standing pursuant to Sections 6.4(a) and 6.4(e).

28.0 **NOTICE**

28.1 All invoices, notices, consents and demands under this Agreement shall be in writing and may be delivered personally, transmitted by fax (with transmission confirmed in writing), or may be forwarded by first class prepaid registered mail to the address for each party specified in this Agreement or to such addresses as each party may from time to time specify by notice. Any notice delivered or sent by fax shall be deemed to have been given and received on the business day next following the date of delivery or transmission. Any notice mailed as aforesaid shall be deemed to have been given and received on the fifth business day following the date it is posted, provided that if between the time of mailing and the actual receipt of the notice there shall be a mail strike, slowdown or other labour dispute which affects delivery of the notice by mails, then the notice shall be effective only if actually delivered.

29.0 **WAIVER**

29.1 No waiver of any breach of this Agreement shall be binding unless evidenced in writing executed by the party against whom charged. Any waiver shall extend only to the particular breach so waived and shall not limit any rights with respect to any future breach.

30.0 **AMENDMENTS**

30.1 Except for those provisions, if any, of the Underlying Agreement specifically incorporated herein by reference, this Agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof. An amendment or variation of this Agreement shall only be binding upon a party if evidenced in writing executed by that party.

31.0 **TERM**

31.1 Unless earlier terminated by agreement of all parties having an Interest or as a result of one party acquiring both a 100% Interest and a 100% interest in the Net Proceeds of Production, the Joint Operation and this Agreement shall remain in full force and effect for so long as any party has any right, title or interest in the Property. Termination of this Agreement shall not, however, relieve any party from any obligations theretofore accrued but unsatisfied, nor from its obligations with respect to rehabilitation of the Mine site and reclamation.

32.0 **TIME OF ESSENCE**

32.1 Time is of the essence of this Agreement.

33.0 **ASSIGNMENT — RIGHT OF FIRST REFUSAL**

33.1 If a party (hereinafter in this Section referred to as the “**Owner**”):

- (a) receives a *bona fide* offer from an independent third party (the “**Proposed Purchaser**”) dealing at arm’s length with the Owner to purchase all or any part all of the Owner’s Interest or its interest in this Agreement (which for certainty shall include the Owner’s right to receive Net Proceeds of Production), which offer the Owner desires to accept; or
- (b) if the Owner intends to sell all or any part of its Interest or its interest in this Agreement.

33.2 The Owner shall first offer (the “**Offer**”) such interest in writing to the other parties prorata upon terms no less favourable than those offered by the Proposed Purchaser or intended to be offered by the Owner, as the case may be. The Offer shall specify the price and terms and conditions of such sale, the name of the Proposed Purchaser (which term shall, in the case of an intended offer by the Owner, mean the person or persons to whom the Owner intends to offer its interest) and, if the offer received by the Owner from the Proposed Purchaser provides for any consideration payable to the Owner otherwise than in cash, the Offer shall include the Owner’s good faith estimate of the cash equivalent of the non-cash consideration. If within a period of 60 days of the receipt of the Offer, the other party notifies the Owner in writing that it will accept the same, the Owner shall be bound to sell such interest to the other party (subject as hereinafter provided with respect to price) on the terms and conditions of the Offer. If the Offer so accepted by the other party contains the Owner’s good faith estimate of the cash equivalent consideration as aforesaid, and if the other party disagrees with the Owner’s best estimate, the other party shall so notify the Owner at the time of acceptance and the other party shall, in such notice, specify what it considers, in good faith, the fair cash equivalent to be and the resulting total purchase price. If the other party so notifies the Owner, the acceptance by the other party shall be effective and binding upon the Owner and the other party and the cash equivalent of any such non-cash consideration shall be determined by binding arbitration under the *Commercial Arbitration Act* (British Columbia) and shall be payable by the other party, subject to prepayment as hereinafter provided, within 60 days following its determination by arbitration. The other party shall in such case pay to the Owner, against receipt of an absolute transfer of clear and unencumbered title to the interest of the Owner being sold, the total purchase price which it specified in its notice to the Owner and such amount shall be credited to the amount determined following arbitration of the cash equivalent of any non-cash consideration. If the other party fails to notify the Owner before the expiration of the time

limited therefor that it will purchase the interest offered, the Owner may sell and transfer such interest to the Proposed Purchaser at the price and on the terms and conditions specified in the Offer for a period of 60 days, provided that the terms of this Section shall again apply to such interest if the sale to the Proposed Purchaser is not completed within the said 60 days. Any sale hereunder shall be conditional upon the Proposed Purchaser delivering a written undertaking to the other party, in form and content satisfactory to its counsel, to be bound by the terms and conditions of this Agreement.

34.0 **SUCCESSORS AND ASSIGNS**

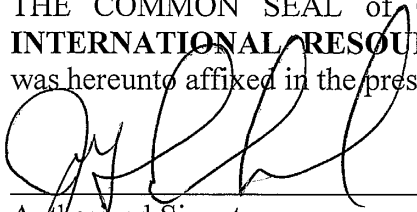
34.1 This Agreement shall enure to the benefit of and be binding upon the parties hereto and their respective successors and permitted assigns.

35.0 **GOVERNING LAW**

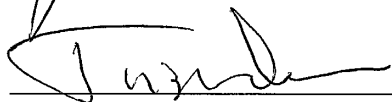
35.1 This Agreement shall be governed by and interpreted in accordance with the laws of the Province of British Columbia.

IN WITNESS WHEREOF the parties hereto have executed this agreement as of the day and year first above written.

THE COMMON SEAL of CASCADIA
INTERNATIONAL RESOURCES INC.
was hereunto affixed in the presence of:



Authorized Signatory



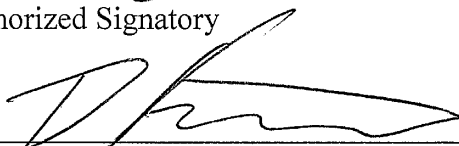
Authorized Signatory

C/S

THE COMMON SEAL of **EAST WEST
RESOURCE CORPORATION** was
hereunto affixed in the presence of:



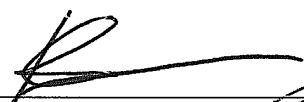
Authorized Signatory



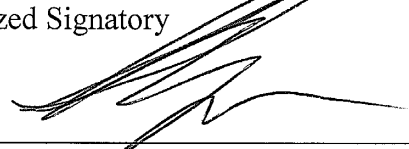
Authorized Signatory

C/S

THE COMMON SEAL of **CANADIAN
GOLDEN DRAGON RESOURCES LTD.**
was hereunto affixed in the presence of:



Authorized Signatory



Authorized Signatory

C/S

SCHEDULE A

ACCOUNTING PROCEDURE

1.0 INTERPRETATION

1.1 Terms defined in the Agreement shall, subject to any contrary intention, have the same meanings herein. In this Schedule the following words, phrases and expressions shall have the following meanings:

“Agreement” means the Agreement to which this Accounting Procedure is attached as Schedule A.

“Count” means a physical inventory count.

“Employee” means those employees of the Operator who are assigned to and directly engaged in the conduct of Mining Operations, whether on a full-time or part-time basis.

“Employee Benefits” means the Operator’s cost of holiday, vacation, sickness, disability benefits, field bonuses, amounts paid to and the Operator’s costs of established plans for employee’s group life insurance, hospitalization, pension, retirement and other customary plans maintained for the benefit of Employees and Personnel, as the case may be, which costs may be charged as a percentage assessment on the salaries and wages of Employees or Personnel, as the case may be, on a basis consistent with the Operator’s cost experience.

“Field Offices” means the necessary sub-office or sub-offices in each place where a Program or Construction is being conducted or a Mine is being operated.

“Government Contributions” means the cost or contributions made by the Operator pursuant to assessments imposed by governmental authority which are applicable to the salaries or wages of Employees or Personnel, as the case may be.

“Joint Account” means the books of account maintained by the Operator to record all assets, liabilities, costs, expenses, credits and other transactions arising out of or in connection with the Mining Operations.

“Material” means the personal property, equipment and supplies acquired or held, at the direction or with the approval of the Management Committee, for use in the Mining Operations and, without limiting the generality, more particularly

“Controllable Material” means such Material which is ordinarily classified as Controllable Material, as that classification is determined or approved by the Management Committee, and controlled in mining operations.

“Personnel” means those management, supervisory, administrative, clerical or other personnel of the Operator normally associated with the Supervision Offices whose salaries and wages are charged directly to the Supervision Office in question.

“Reasonable Expenses” means the reasonable expenses of Employees or Personnel, as the case may be, for which those Employees or Personnel may be reimbursed under the Operator’s usual expense account practice, as accepted by the Management Committee; including without limiting generality, any relocation expenses necessarily incurred in order to properly staff the Mining Operations if the relocation is approved by the Management Committee.

“Supervision Offices” means the Operator’s offices or department within the Operator’s offices from which the Mining Operations are generally supervised.

2.0 **STATEMENTS AND BILLINGS**

2.1 The Operator shall, by invoice, charge each Participant with its Proportionate Share of Exploration Costs and Mine Costs in the manner provided in Sections 7.0 and 15.0 of the Agreement respectively.

2.2 The Operator shall deliver, with each invoice rendered for Costs incurred a statement indicating:

- (a) all charges or credits to the Joint Account relating to Controllable Material; and
- (b) all other charges and credits to the Joint Account summarized by appropriate classification indicative of the nature of the charges and credits.

2.3 The Operator shall deliver with each invoice for an advance of Costs a statement indicating:

- (a) the estimated Exploration Costs or, in the case of Mine Costs the estimated cash disbursements, to be made during the next succeeding month;

- (b) the addition thereto or subtraction therefrom, as the case may be, made in respect of Exploration Costs or Mine Costs actually having been incurred in an amount greater or lesser than the advance which was made by each Participant for the penultimate month preceding the month of the invoice; and
- (c) the advances made by each Participant to date and the Exploration Costs or Mine Costs incurred to the end of the penultimate month preceding the month of the invoice.

3.0 **DIRECT CHARGES**

3.1 The Operator shall charge the Joint Account with the following items:

(a) Contractor's Charges:

All costs directly relating to the Mining Operations incurred under contracts entered into by the Operator with third parties.

(b) Labour Charges:

- (i) The salaries and wages of Employees in an amount calculated by taking the full salary or wage of each Employee multiplied by that fraction which has as its numerator the total time for the month that the Employees were directly engaged in the conduct of Mining Operations and as its denominator the total normal working time for the month of the Employee;
- (ii) the Reasonable Expenses of the Employees; and
- (iii) Employee Benefits and Government Contributions in respect of the Employees in an amount proportionate to the charge made to the Joint Account in respect to their salaries and wages.

(c) Office Maintenance:

- (i) The cost or a *pro rata* portion of the costs, as the case may be, of maintaining and operating the Field Offices and the Supervision Offices. The basis for charging the Joint Account for such maintenance costs shall be as follows:
 - (A) the expense of maintaining and operating Field Offices, less any revenue therefrom; and
 - (B) that portion of maintaining and operating the Supervision Offices which is equal to:
 - (1) the anticipated total operating expenses of the Supervision Offices
divided by:
 - (2) the anticipated total staff man days for the Employees whether in connection with the Mining Operations or not;
multiplied by:
 - (3) the actual total time spent on the Mining Operations by the Employee expressed in man days;
- (ii) without limiting generality, the anticipated total operating expenses of the Supervision Offices shall include:
 - (A) the salaries and wages of the Operator's Personnel which have been directly charged to the Supervision Offices;
 - (B) the Reasonable Expense of the Personnel; and
 - (C) Employee Benefits; and
- (iii) the Operator shall make an adjustment in respect of the Office Maintenance cost forthwith after the end of each Operating Year upon having determined the actual operating expenses and actual total staff man days referred to in Section 3.1(c)(i)(B) of this Schedule A.

(d) Material:

Material purchased or furnished by the Operator for use on the Property as provided under Section 4.0 of this Schedule A.

(e) Transportation Charges:

The cost of transporting Employees and Material necessary for the Mining Operations.

(f) Service Charges:

(i) The cost of services and utilities procured from outside sources other than services covered by Section 3.1(h). The cost of consultant services shall not be charged to the Joint Account unless the retaining of the consultant is approved in advance by the Management Committee; and

(ii) use and service of equipment and facilities furnished by the Operator as provided in Section 4.4 of this Schedule A.

(g) Damages and Losses to Joint Property:

All costs necessary for the repair or replacement of Assets made necessary because of damages or losses by fire, flood, storms, theft, accident or other cause. If the damage or loss is estimated by the Operator to exceed \$10,000, the Operator shall furnish each Participant with written particulars of the damages or losses incurred as soon as practicable after the damage or loss has been discovered. The proceeds, if any, received on claims against any policies of insurance in respect of those damages or losses shall be credited to the Joint Account.

(h) Legal Expense:

All costs of handling, investigating and settling litigation or recovering the Assets, including, without limiting generality, attorney's fees, court costs, costs of investigation or procuring evidence and amounts paid in settlement or satisfaction of any litigation or claims; provided, however, that, unless otherwise approved in advance by the Management Committee, no charge shall be made for the services of the Operator's legal staff or the fees and expenses of outside solicitors.

(i) Taxes:

All taxes, duties or assessments of every kind and nature (except income taxes) assessed or levied upon or in connection with the Property, the Mining Operations thereon, or the production therefrom, which have been paid by the Operator for the benefit of the parties.

(j) Insurance:

Net premiums paid for:

- (i) such policies of insurance on or in connection with Mining Operations as may be required to be carried by law; and
- (ii) such other policies of insurance as the Operator may carry for the protection of the parties in accordance with the Agreement; and

the applicable deductibles in event of an insured loss.

(k) Rentals:

Fees, rentals and other similar charges required to be paid for acquiring, recording and maintaining permits, mineral claims and mining leases and rentals and royalties which are paid as a consequence of the Mining Operations.

(l) Permits:

Permit costs, fees and other similar charges which are assessed by various governmental agencies.

(m) Other Expenditures:

Such other costs and expenses which are not covered or dealt with in the foregoing provisions of this Section 3.1 of this Schedule A as are incurred with the approval of the Management Committee for Mining Operations or as may be contemplated in the Agreement.

4.0 **PURCHASE OF MATERIAL**

4.1 Subject to Section 4.4 of this Schedule A the Operator shall purchase all Materials and procure all services required in the Mining Operations.

4.2 Materials purchased and services procured by the Operator directly for the Mining Operations shall be charged to the Joint Account at the price paid by the Operator less all discounts actually received.

4.3 Any Participant may sell Material or services required in the Mining Operations to the Operator for such price and upon such terms and conditions as the Management Committee may approve.

4.4 Notwithstanding the foregoing provisions of this Section 4.0, the Operator, after having obtained the prior approval of the Management Committee, shall be entitled to supply for use in connection with the Mining Operations equipment and facilities which are owned by the Operator and to charge the Joint Account with such reasonable costs as are commensurate with the ownership and use thereof.

5.0 **DISPOSAL OF MATERIAL**

5.1 The Operator, with the approval of the Management Committee may, from time to time, sell any Material which has become surplus to the foreseeable needs of the Mining Operations for the best price and upon the most favourable terms and conditions available.

5.2 Any Participant may purchase from the Operator any Material which may from time to time become surplus to the foreseeable need of the Mining Operations for such price and upon such terms and conditions as the Management Committee may approve.

5.3 Upon termination of the Agreement, the Management Committee may approve the division of any Material held by the Operator at that date, which Material may be taken by the Participants in kind or be taken by a Participant in lieu of a portion of its Proportionate Share of the net revenues received from the disposal of the Assets and Property. If the division to a Participant be in lieu, it shall be for such price and on such terms and conditions as the Management Committee may approve.

5.4 The net revenues received from the sale of any Material to third parties or to a Participant shall be credited to the Joint Account.

6.0 **INVENTORIES**

6.1 The Operator shall maintain records of Material in reasonable detail and records of Controllable Material in detail.

6.2 The Operator shall perform Counts from time to time at reasonable intervals, and in any event at the end of each calendar year. The independent external auditor of the Operator shall be given reasonable notice of each Count, and shall be given the opportunity to attend the Count.

6.3 Forthwith after performing a Count, the Operator shall reconcile the inventory with the Joint Account. The Operator shall not be held accountable for any shortages of inventory except such shortages as may have arisen due to a lack of diligence on the part of the Operator.

7.0 **ADJUSTMENTS**

7.1 Payment of any invoice by a Participant shall not prejudice the right of that Participant to protest the correctness of the statement supporting the payment; provided, however, that all invoices and statements presented to each Participant by the Operator during any calendar year shall conclusively be presumed to be true and correct upon the expiration of 12 months following the end of the calendar year to which the invoice or statement relates, unless within that 12-month period that Participant gives notice to the Operator making claim on the Operator for an adjustment to the invoice or statement.

7.2 The Operator shall not adjust any invoice or statement in favour of itself after the expiration of 12 months following the end of the calendar year to which the invoice or statement relates.

7.3 Notwithstanding Sections 7.1 and 7.2 of this Schedule A, the Operator may make adjustments to an invoice or statement which arise out of a Count of Material or Assets within 60 days of the completion of the Count.

7.4 A Participant shall be entitled upon notice to the Operator to request that the independent external auditor of the Operator provide that Participant with its opinion that any invoice or statement delivered pursuant to the Agreement in respect of the period referred to in Section 7.1 of this Schedule A has been prepared in accordance with this Agreement.

7.5 The time for giving the audit opinion contemplated in Section 7.4 of this Schedule A shall not extend the time for the taking of exception to and making claims on the Operator for adjustment as provided in Section 7.1 of this Schedule A.

7.6 The cost of the auditor's opinion referred to in Section 7.4 of this Schedule A shall be solely for the account of the Participant requesting the auditor's opinion, unless the audit disclosed a material error adverse to that Participant, in which case the cost shall be solely for the account of the Operator.

7.7 Upon not less than 10 business days' notice to the Operator, and no more frequently than twice during the currency of each Operating Plan, a Participant shall be entitled to inspect the Joint Account , at the location(s) where such records are normally kept. All costs incurred in carrying out such inspection shall be borne by the Participant. All disagreements or discrepancies identified by the Participant shall be referred to the independent external auditor for final resolution.

SCHEDULE B

NET PROCEEDS OF PRODUCTION

1.0 OBLIGATION

1.1 If any non-Participant becomes entitled to a royalty pursuant to Section 7.12 or Section 10.2(b) of the Agreement, each Participant shall separately calculate, as at the end of each calendar quarter subsequent to the Completion Date, the Net Proceeds of Production.

1.2 Each Participant shall within 60 days of the end of each calendar quarter, as and when any Net Proceeds of Production are available for distribution:

- (a) severally pay or cause to be paid to each non-Participant that percentage of the Net Proceeds of Production to which that non-Participant is entitled under Section 7.12 or Section 10.2(b) of the Agreement; and
- (b) deliver to each non-Participant a statement indicating:
 - (i) the Gross Receipts during the calendar quarter;
 - (ii) the deductions therefrom made in the order itemized in Section 3.1 of this Schedule B;
 - (iii) the amount of Net Proceeds of Production remaining; and
 - (iv) the amount of those Net Proceeds of Production to which that non-Participant is entitled;

provided, however, that until such time as there are Net Proceeds of Production available, each Participant shall deliver to each non-Participant, within 60 days of the end of each calendar quarter commencing with the first calendar quarter following the Completion Date, a statement indicating the Gross Receipts during the calendar quarter less the deductions therefrom made in the order itemized in Section 3.1 of this Schedule B.

1.3 Nothing contained in the Agreement or this Schedule B shall be construed as:

- (a) imposing on a Participant any obligation with respect to the payments of royalty due hereunder to a non-Participant from any other Participant; or

- (b) conferring on any non-Participant any right to or interest in any Property or Assets except the right to receive royalty payments from each Participant as and when due.

1.4 The Participants agree that on the request of any non-Participant they will execute and deliver such documents as may be necessary to permit that non-Participant to record its royalty right against the Property.

2.0 **DEFINITIONS**

2.1 Terms defined in the Agreement shall, subject to any contrary intention, bear the same meaning herein.

2.2 In addition to the definitions of the classes of Costs provided in Section 1.1 of the Agreement and without limiting the generality thereof:

(a) **“Distribution Costs”** means all costs of:

- (i) transporting ore or concentrates from a Mine or a concentrating plant to a smelter, refinery or other place of delivery designated by the purchaser and, in the case of concentrates tolled, of transporting the concentrate or metal from a smelter or refinery to the place of delivery designated by the purchaser;
- (ii) handling, warehousing and insuring the concentrates and metal; and
- (iii) in the case of concentrates tolled, of smelting and refining, including any penalties thereon or in connection therewith.

(b) **“Interest Costs”** means interest computed each calendar quarter and calculated as follows:

- (i) the average of the opening and closing monthly outstanding balances for each month during the quarter of the net unrecovered amounts of all costs in the classes enumerated in Section 1.1 of the Agreement under the definition of “Costs” being (a) Constructions Costs, (b) Exploration Costs, (d) Operating Costs and (e) Prior Exploration Costs, and in Sections 2.2(a), (b), (c) and (d) of this Schedule B;

multiplied by:

- (ii) the Prime Rate plus 2%;

multiplied by:

- (iii) the number of days in the quarter;

divided by:

- (iv) the number of days in the Year.

- (c) **“Marketing Costs”** means such reasonable charge for marketing of diamonds, ores and concentrates sold or of concentrates tolled as is consistent with generally accepted industry marketing practices including, without limitation, costs of market analysis, preparation of diamonds for sale, collection of sale proceeds and the costs of all associated activities.
- (d) **“Taxes and Royalties”** means all taxes (other than income taxes), royalties or other charges or imposts provided for pursuant to any law or legal obligation imposed by any government in connection with a Participant’s involvement in the Joint Operation if paid by the Participant.

2.3 Wherever used in this Schedule B, **“Gross Receipts”** means the aggregate of all receipts, recoveries or amounts received by or credited to a Participant in connection with its participation under the Agreement including, without limiting the generality of the foregoing:

- (a) the receipts from the sale of that Participant’s proportionate share of the concentrates derived from the Mineral produced from the Mine;
- (b) all proceeds received from the sale of the Property or Assets subsequent to the Operative Date;
- (c) all insurance recoveries (including amounts received to settle claims) in respect of loss of, or damage to any portion of the Property or Assets subsequent to the Operative Date;
- (d) all amounts received as compensation for the expropriation or forcible taking of any portion of the Property or Assets subsequent to the Operative Date;

- (e) the fair market value, at the Property, of those Assets, if any, purchased for the Joint Account, that are transferred from the Property for use by a Participant elsewhere subsequent to the Operative Date; and
- (f) the amount of any negative balance remaining after the reallocation of negative balances pursuant to Section 3.3 of this Schedule B;

to the extent that those receipts, recoveries or amounts have not been applied by the Participant as a recovery of any of the classes of Costs itemized in Section 3.1 of this Schedule B.

3.0 **NET PROCEEDS OF PRODUCTION**

3.1 “**Net Proceeds of Production**” means the Gross Receipts minus deductions therefrom, to the extent of but not exceeding the amount of those Gross Receipts, of the then net unrecovered amounts of the following classes of Costs made in the following itemized order:

- (a) Marketing Costs;
- (b) Distribution Costs;
- (c) Operating Costs;
- (d) Taxes and Royalties;
- (e) Interest Costs;
- (f) Construction Costs;
- (g) Exploration Costs; and
- (h) Prior Exploration Costs;

it being understood that the deductions in respect of the Costs referred to in Sections 3.1(a), (b), (d) and (e) of this Schedule B shall be based on those Costs as recorded by that Participant and the deductions in respect of the Costs referred to in Sections 3.1(c), (f), (g) and (h) of this Schedule B shall be based on that Participant’s Proportionate Share of those Costs as recorded by the Operator.

3.2 Any amount by which the aggregate of the Costs set out in Sections 3.1(a) to (h) inclusive in any quarter exceeds Gross Receipts for such quarter shall, together with any negative

balance carried forward from the previous quarter, be carried forward for deduction from Gross Receipts in the immediately succeeding quarter.

4.0 **ADJUSTMENTS AND VERIFICATION**

4.1 Payment of any Net Proceeds of Production by a Participant shall not prejudice the right of that Participant to adjust its own statement supporting the payment; provided, however, that all statements presented to the non-Participant by that Participant for any quarter shall conclusively be presumed to be true and correct upon the expiration of 12 months following the end of the quarter to which the statement relates, unless within that 12-month period that Participant gives notice to the non-Participant making claim on the non-Participant for an adjustment to the statement which will be reflected in subsequent payment of Net Proceeds of Production.

4.2 The Participant shall not adjust any statement in favour of itself after the expiration of 12 months following the end of the quarter to which the statement relates.

4.3 The non-Participant shall be entitled upon notice to any Participant to request that the auditor of that Participant provide the non-Participant with its opinion that any statement delivered pursuant to Section 1.1 of this Schedule B in respect of any quarterly period falling within the 12-month period immediately preceding the date of the non-Participant's notice has been prepared in accordance with this Agreement.

4.4 The time for giving the audit opinion contemplated in Section 4.3 of this Schedule B shall not extend the time for the taking of exception to and making claim on the non-Participant for adjustment as provided in Section 4.1 of this Schedule B.

4.5 The cost of the auditor's opinion referred to in Section 4.3 of this Schedule B shall be solely for the account of the non-Participant requesting the auditor's opinion, except where the said opinion is to the effect that the statement has not been prepared substantially in accordance with this Agreement, in which case the cost shall be solely for the account of the Participant.

SCHEDULE C

NORTON WEST PROPERTY DESCRIPTION

Location	Number	Staking Date	
Norton Lake	TB1187695	2001-SEP-24	6400
Norton Lake	TB1187696	2001-SEP-24	4000
Norton Lake	TB1187697	2001-SEP-17	6400
Norton Lake	TB1187698	2001-SEP-17	6400
Norton Lake	TB1187699	2001-SEP-17	6400
Norton Lake	TB1187700	2001-SEP-17	6400
Norton Lake	TB1187701	2001-SEP-17	6400
Norton Lake	TB1187702	2001-SEP-17	6400
Norton Lake	TB1187703	2001-SEP-17	64000
Norton Lake	TB1187704	2001-SEP-17	6400
Norton Lake	TB1187705	2001-SEP-17	6400
Norton Lake	TB1187706	2001-SEP-17	6400
Norton Lake	TB1187707	2001-SEP-24	6400
Norton Lake	TB1187708	2001-SEP-17	6400
Norton Lake	TB1240871	2000-NOV-28	6000

233 Claims

SCHEDULE D

NORTON EAST PROPERTY DESCRIPTION

Location	Number	Staking Date	
Norton Lake	TB1187709	2001-SEP-17	6400
Norton Lake	TB1187710	2001-SEP-17	3200
East of Norton Lake	TB1192792	2001-SEP-20	6400
East of Norton Lake	TB1192793	2001-SEP-20	6400
East of Norton Lake	TB1192794	2001-SEP-20	6400
East of Norton Lake	TB1192796	2001-SEP-20	6400
East of Norton Lake	TB1192797	2001-SEP-20	6400
East of Norton Lake	TB1192798	2001-SEP-20	6400
Norton Lake	TB1192791	2001-SEP-20	6400
Norton Lake	TB1192795	2001-SEP-20	6400
			152 Claims

SCHEDULE E

PROPERTY DESCRIPTION

Location	Number	Staking Date	Expiry Date	Status
Norton Lake	TB1187695	2001-SEP-24	2007-SEP-24	A
Norton Lake	TB1187696	2001-SEP-24	2007-SEP-24	A
Norton Lake	TB1187697	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187698	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187699	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187700	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187701	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187702	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187703	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187705	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187706	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187707	2001-SEP-24	2007-SEP-24	A
Norton Lake	TB1187708	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187709	2001-SEP-17	2007-SEP-17	A
Norton Lake	TB1187710	2001-SEP-17	2007-SEP-17	A
East of Norton Lake	TB1192792	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192793	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192794	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192796	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192797	2001-SEP-20	2007-SEP-20	A
East of Norton Lake	TB1192798	2001-SEP-20	2007-SEP-20	A
Norton Lake	TB1192791	2001-SEP-20	2007-SEP-20	A
Norton Lake	TB1240871	2000-NOV-28	2011-NOV-28	A

Norton Lake TB1192795 2001-SEP-20 2007-SEP-20 A

EXPIRED

Norton Lake TB1187704 2001-SEP-17 2006-SEP-17 E



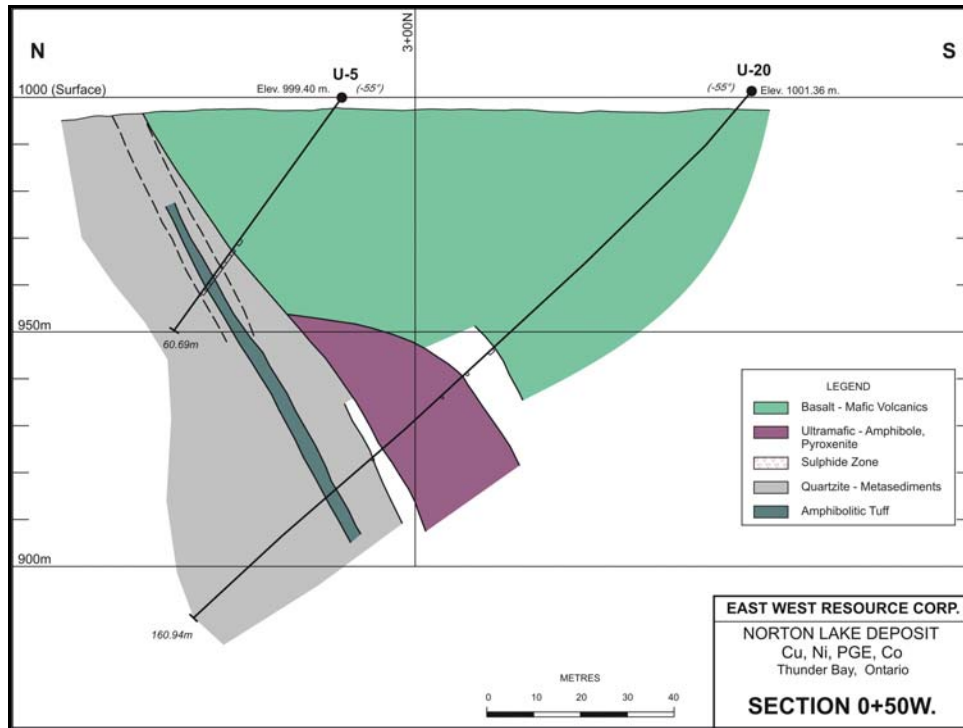
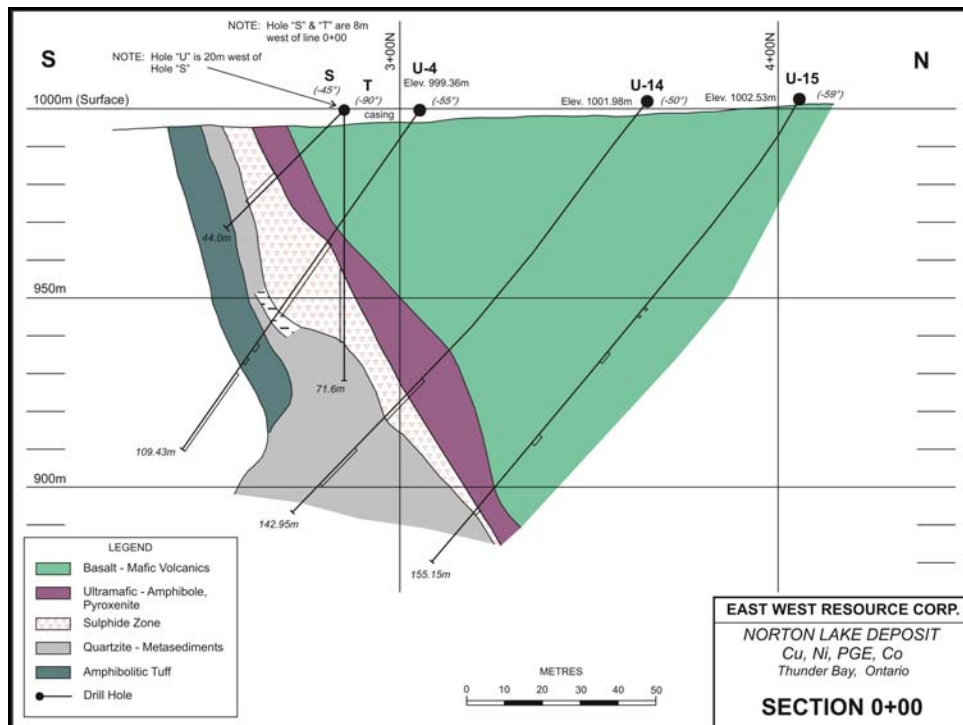
APPENDIX 3

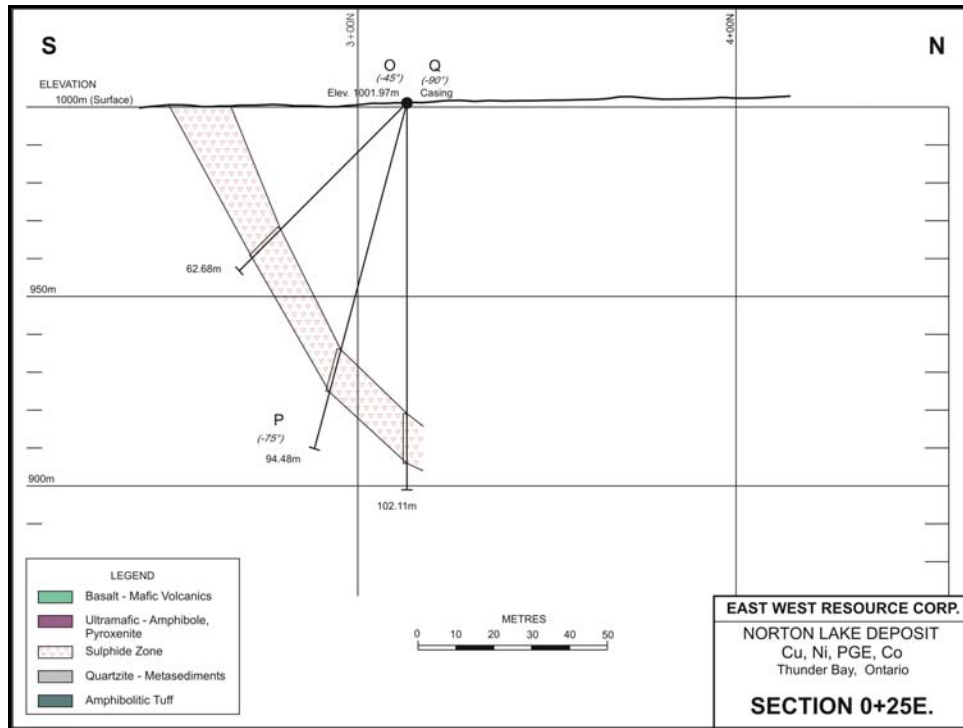
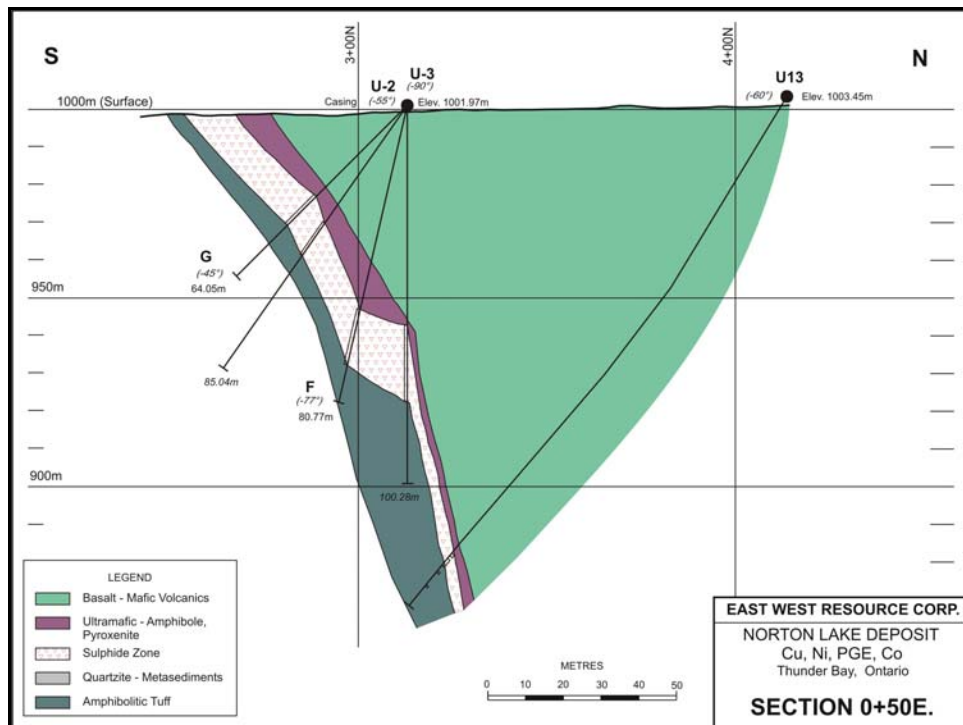
Selected Drill Hole Sections and Plans

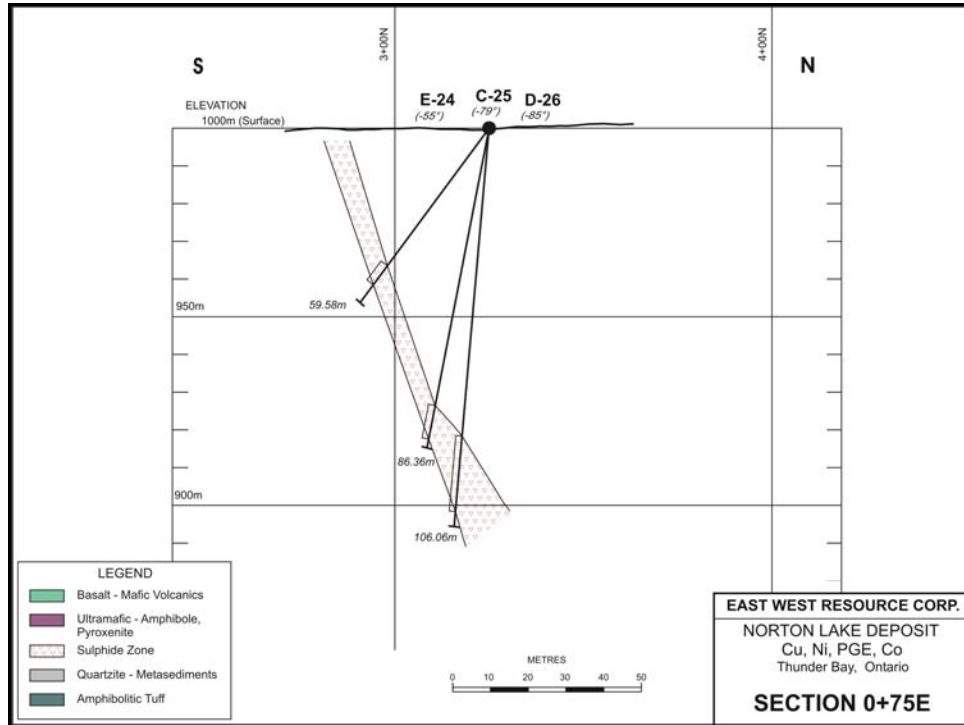


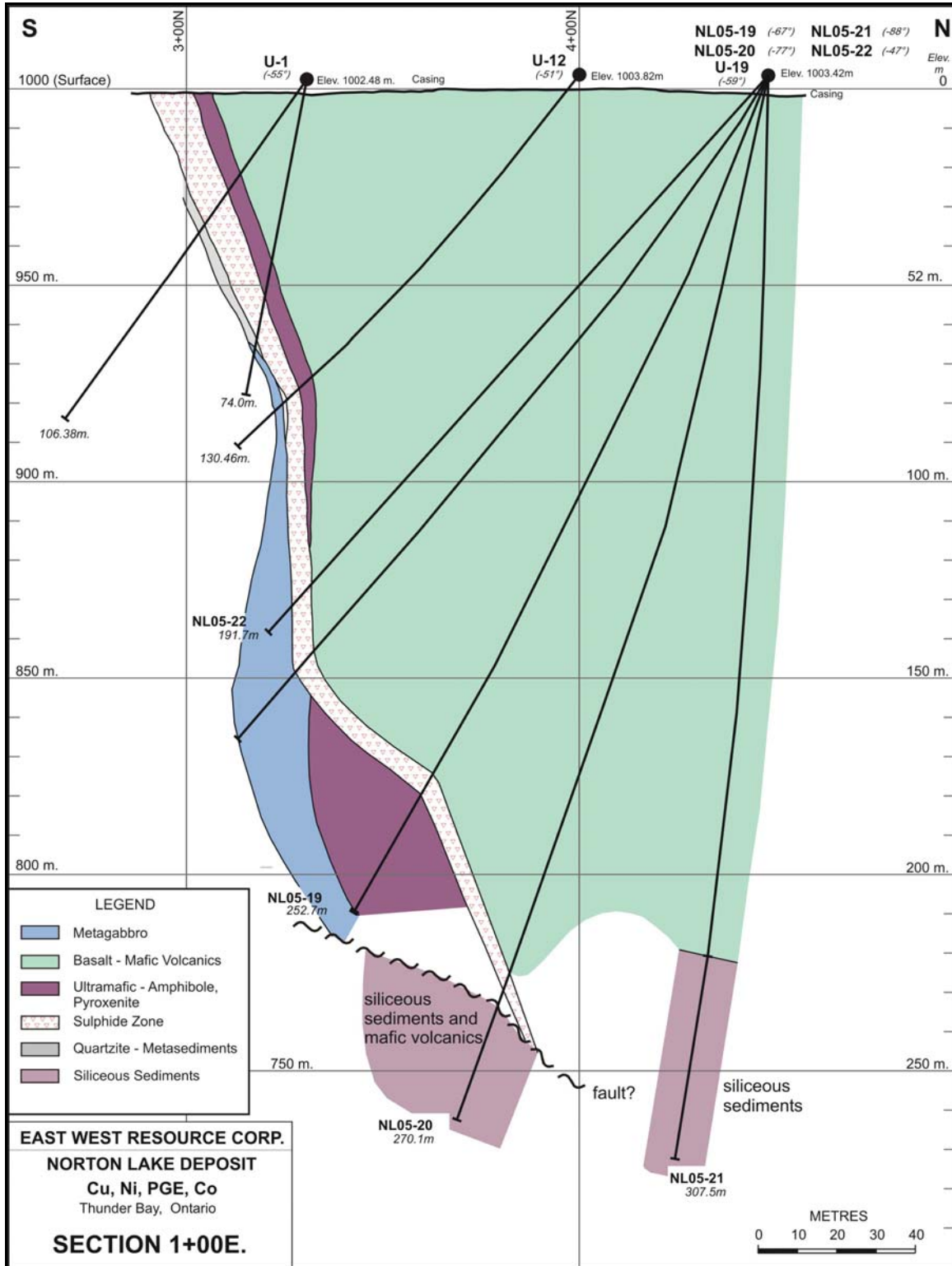


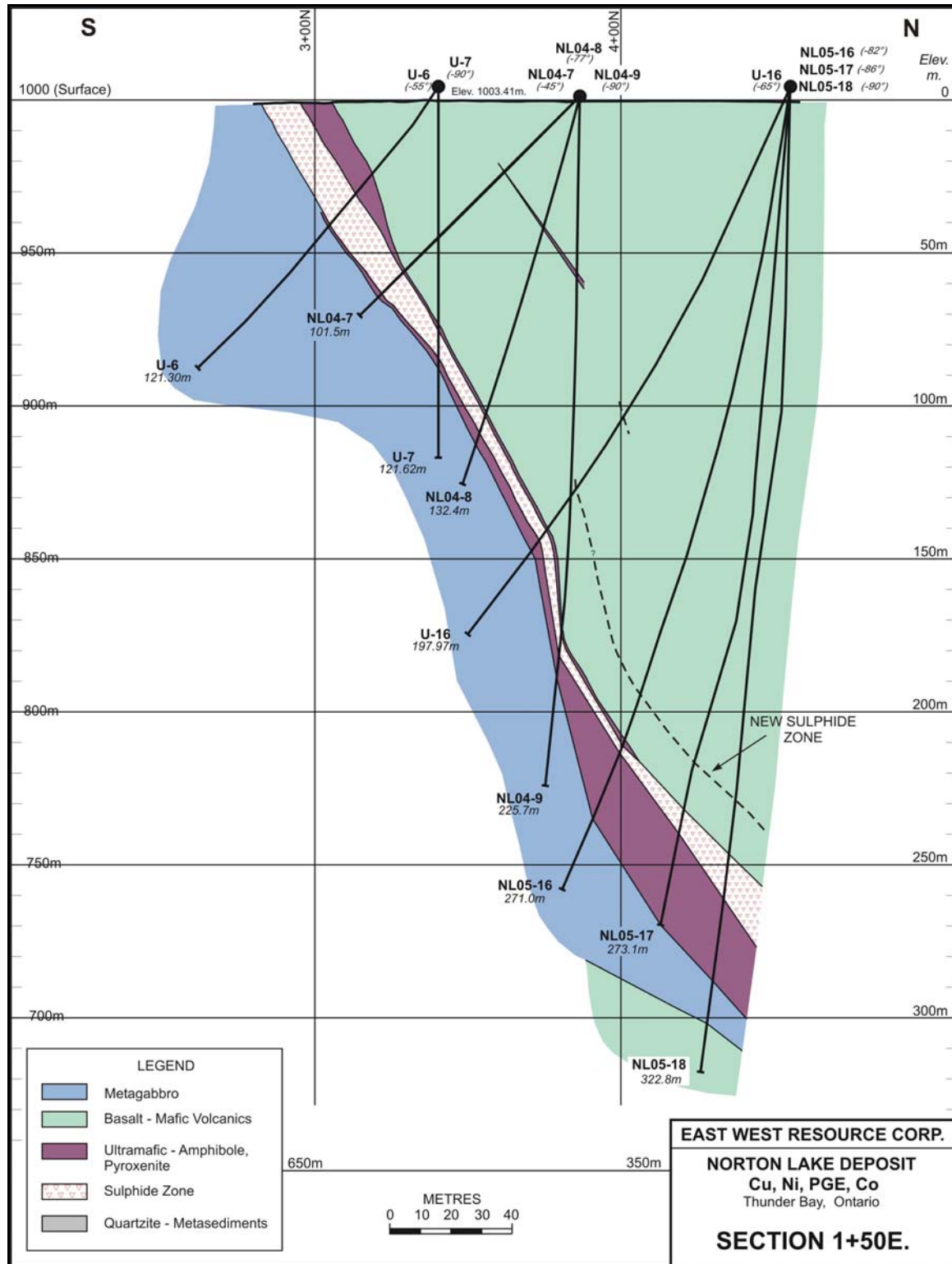


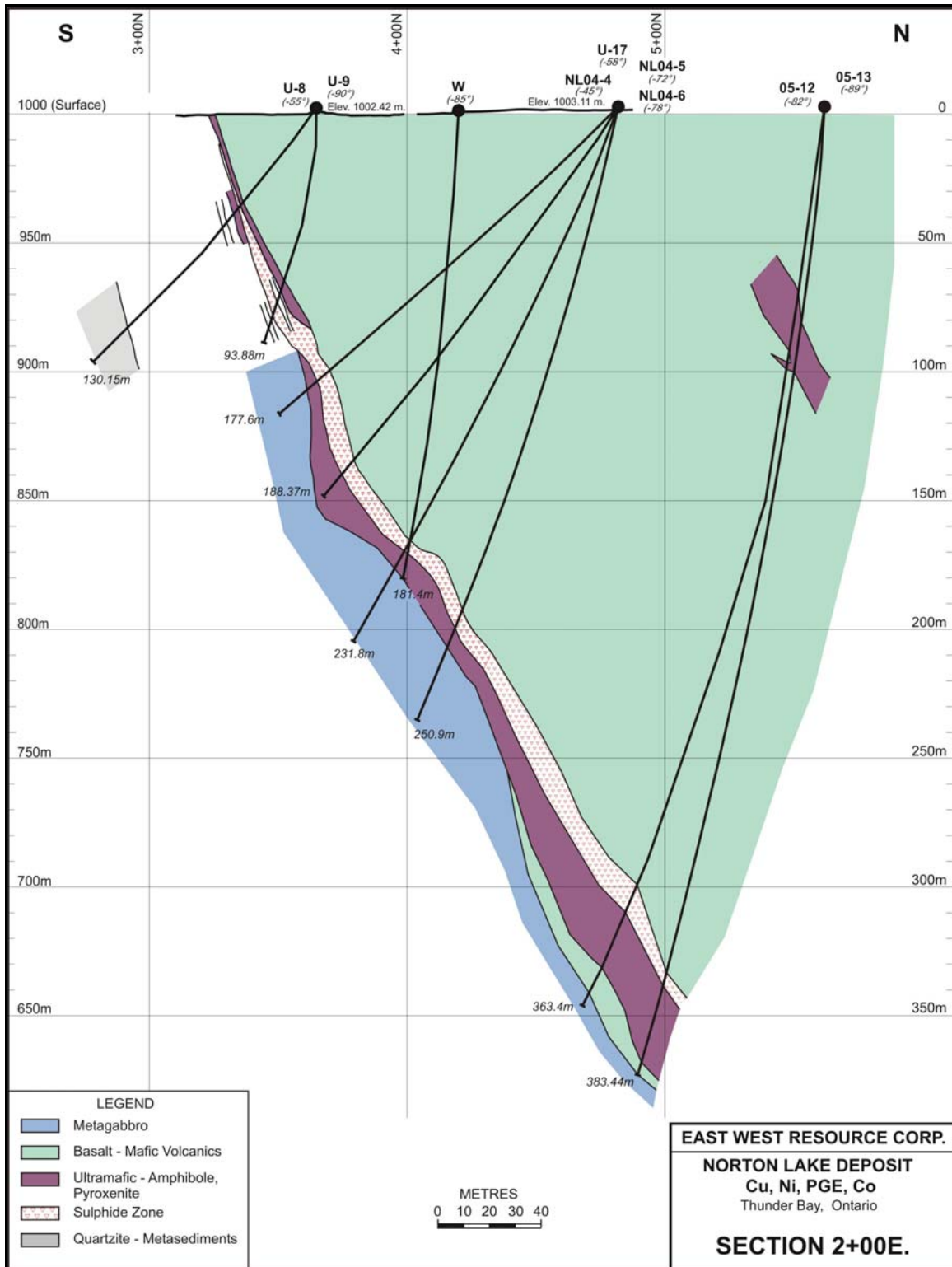


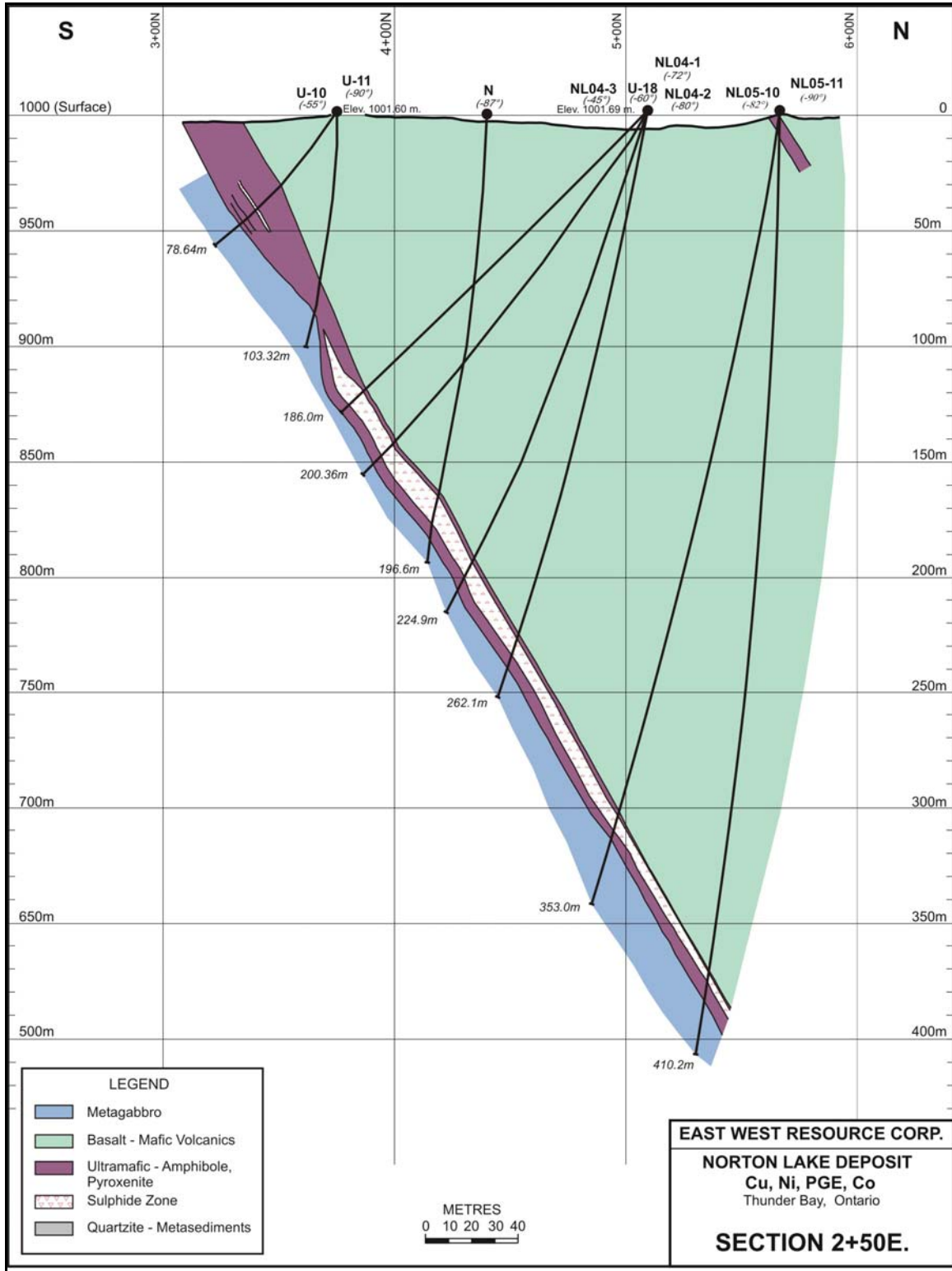


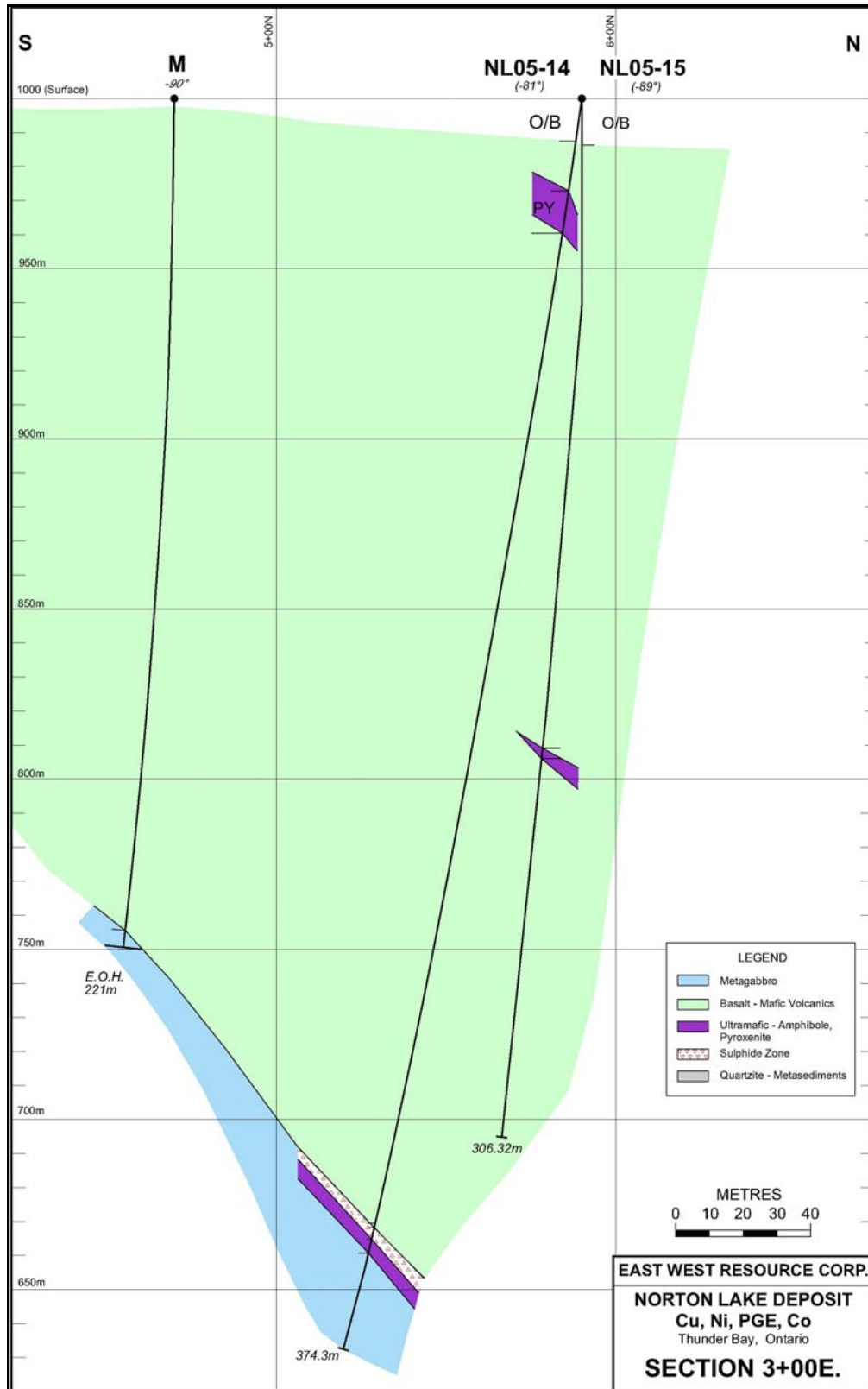


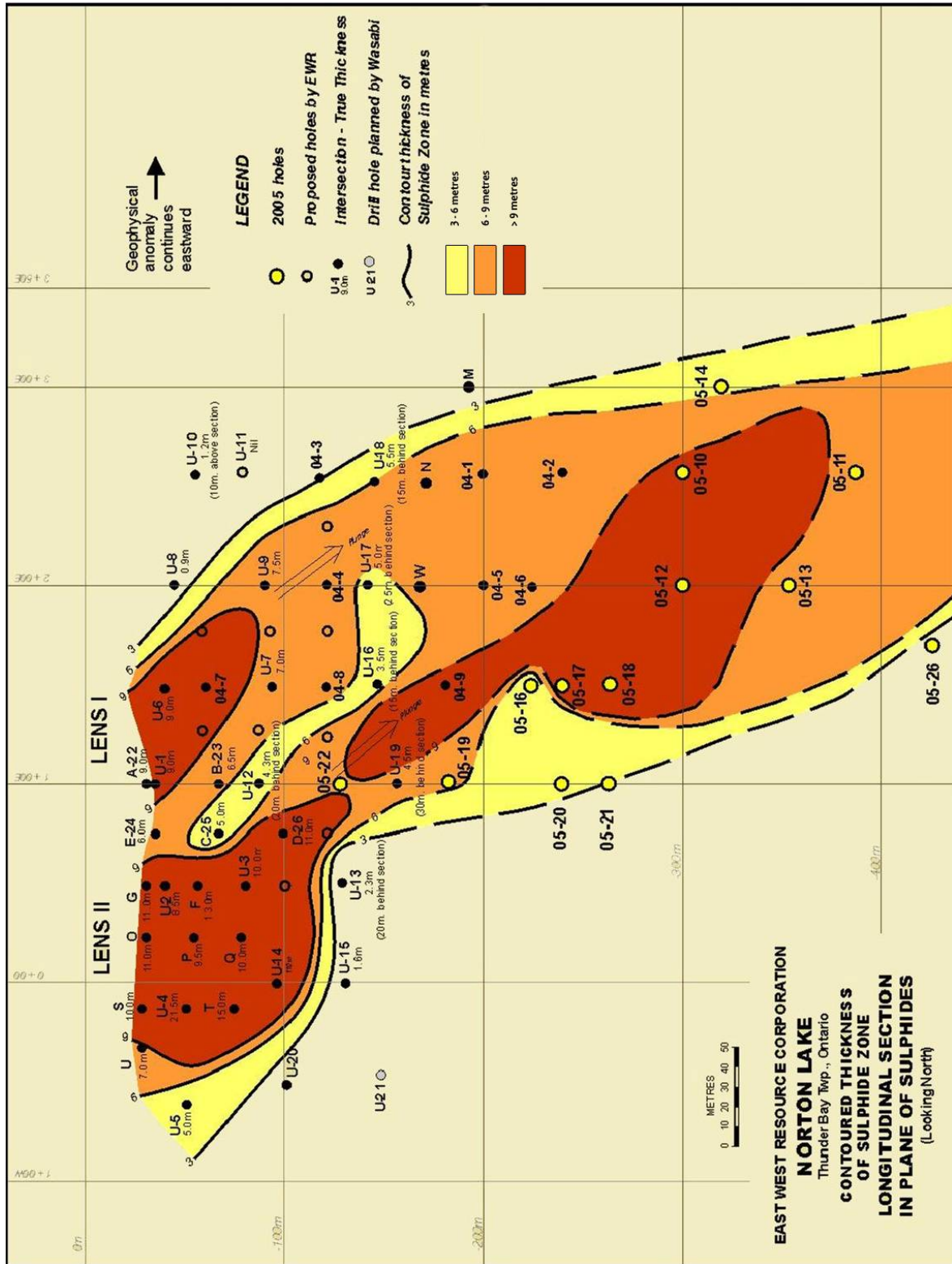












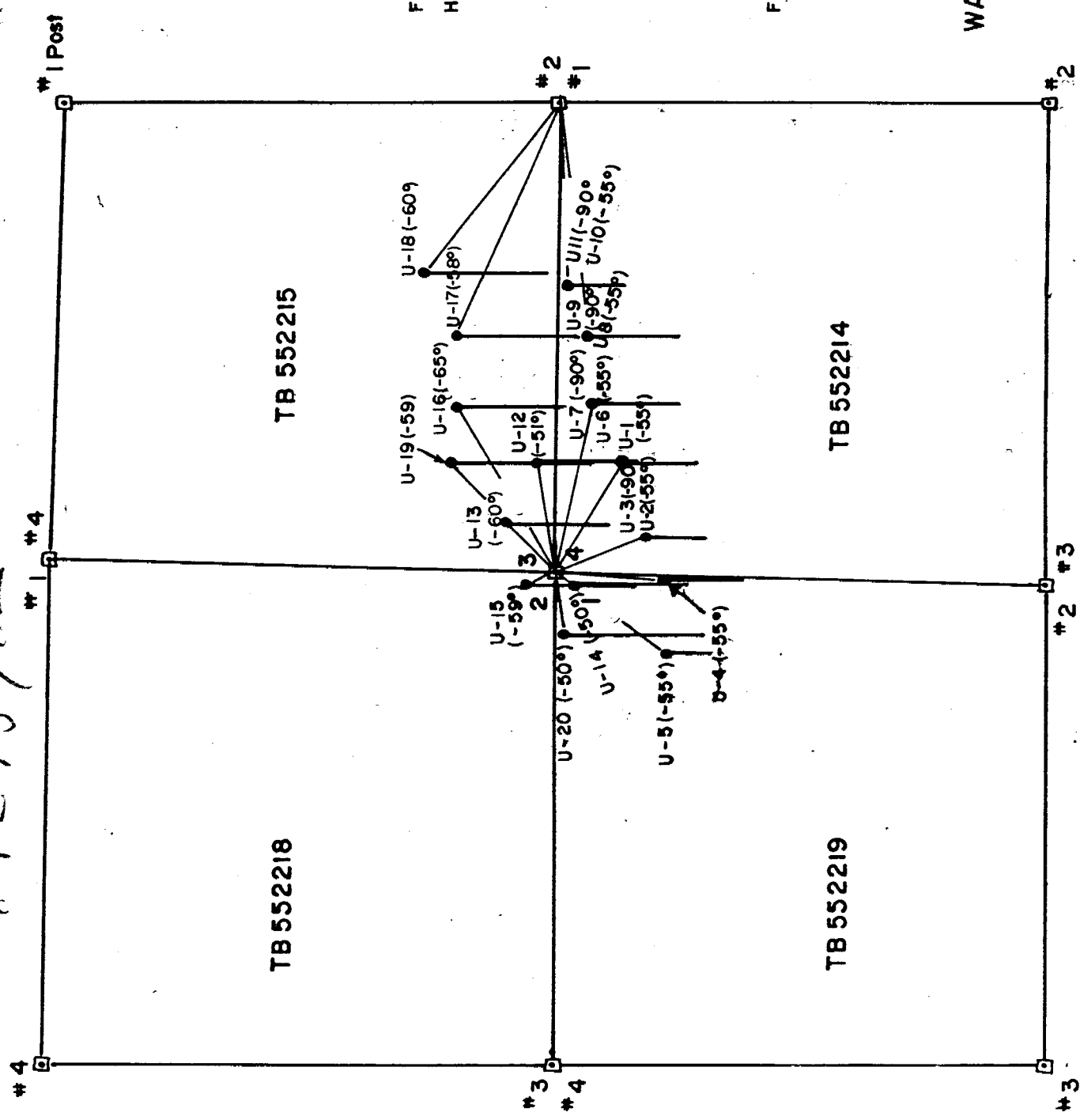


APPENDIX 4

Selected Drill Logs and Assay Data



4189-93/82



FROM No. 1 Post of Claim No 552219

HOLE	DISTANCE	AZIMUTH
U-1	349'	121°
U-2/3	249'	160°
U-4	282'	193°
U-5	374'	215°
U-6/7	466'	103°
U-12	299'	080°
U-13	190'	044°
U-14	59'	216°
U-15	89'	338°
U-16	515'	059°
U-19	400'	045°
U-20	177'	262°

From No. 1 Post Claim No 552214

U-8/9	643'	263°
U-10/11	502'	267°
U-17	696'	294°
U-18	594'	309°

WASABI RESOURCES LTD.

SCALE: 1:5,000

JAN. 1982

RELOG

DIAMOND DRILL RECORD

PROPERTY NORTON LAKE AREA

SHEET NO. 1 of 1

HOLE NO. U-3

Latitude 3414.8N. Anomaly U

Bearing

Started April 25, 1981

Departure 0444.5E.

Completed April 27, 1981

Elevation 1001.97 metres

Dip Collar -90°; 100.38 m. -75°

Final Depth 100.28 metres

Depth (M.)		Description	Sample No.	From	To	Width	Oz/Ton			%	
From	To						Au	Ag	Cu	Ni	
53.00	56.20	MAFIC VOLCANICS - see ddh U-1		(54.30 m. Specimen) (55.20 m. Specimen)							
56.20	58.15	MAFIC TO ULTRAMAFIC - see ddh U-1. Pale green bleached sections		(57.50 m. Specimen)							
58.15	70.52	SULPHIDE ZONE - 30% to 40% massive pyrrhotite, variable chalcopyrite. 58.15 - 65.30 - matrix medium to dark green amphiboles, some chlorite 65.30 - 66.76 - matrix gabbro. 66.76 - 70.52 - matrix medium-green amphibole or grunerite, some sugary quartz.		(58.50 m. Specimen) (62.00 m. Specimen) (66.75 m. Specimen) (69.70 m. Specimen)							
70.52	100.28	METATUFFS - predominantly amphibole type as in ddh U-2 with a number of beds of hornblende quartzite. Bedding at 25° to 45° to core axis. END OF HOLE.		(74.00 m. Specimen) (82.00 m. 97.00 m. Specimen) (88.50 m. Specimen)							
100.28				58.72	76.57	17.85	-	-	0.34	0.93	

Drilled by Tindale Drilling Ltd.

Signed

H. D. McLeod
H. D. McLeod

DIAMOND DRILL RECORD

PROPERTY Norton Lake

HOLE NO. U-3

SHEET NO. 1 of 2

Latitude 3420N

Bearing 180°

Started Apr. 25/81

Departure 0450E

Dip Vertical

Completed Apr. 27/81

Elevation 1001-97

Final Depth 100.28 M

Depth (Mt.)		Description	Sample No.	From	To	Width	Rel. White Oz./ton		X-Ray	
From	To						Au	Ag	Cu	Ni
0	1.83	Casing to bedrock.								
1.83	1.86	Cherty, sedimentary boulders?								
1.86	54.28	Mafic flows & Tuffs/Tuffaceous interflow sediments								
54.28	56.20	Felsic to Intermediate Tuffs/fragmentals?								
56.20	58.72	Intermediate/Mafic Flow								
58.72	77.57	Sulphide Mineralization								
		58.72 - 59.57 Semi-massive to stringer po, med. gr. (recrystallized) 40% + mt + zn, with local stringer cp 1% starting at 59.27; minor py porphyroblasts 1-2%, in mafic tuff; 59.57 - 59.91 Semi-massive to strg. po 10%, ± mt + zn, strg. cp 2-3%, minor py 1-2% in intermediate to chlorite schist								
		59.91 - 60.91 Stringer po 1-2%, cp 0.5% in chlorite schist; strg. po + cp 1-2% in mafic sill? between 60.28 - 60.91; 60.91 - 71.62 Strg. to semi-massive po 15-20%, strg. and dissem. cp 1-3% (locally 5-3% over 10 cm @ 67.94), py porph. + strg. in po 3-5%, ± mt, ± zn in intermediate/mafic tuff; coarse recrystallized texture of mineralization gradational to finer gr. around 69.93; 71.62 - 72.51 Med. gr. intermed./felsic sill? weakly foliated with finely dissem. py + po + cp 0.5%; 72.51 - 73.60 Interbedded semi-massive to strg. po 5-8%, dissem. py 3%, strg. cp 1-3%, ± mt + zn (coarse gr) in med. gr. chloritic mafic flow/sill, foliated; 73.60 - 76.45 Intermediate tuff with weak strg. po 3-5%, py 3%, cp 1-2%; 76.45 - 77.57 Weak strg. and dissem po 1%, cp 0.5-1%, py 1% in intermed. tuff.								
77.57	100.28	Mafic/Intermediate Tuffs (altered)								
100.28	100.28	END OF HOLE.								

Drilled by M. Tindale

Signed

D. Szasz

M. Tindale

DIAMOND DRILL RECORD

PROPERTY NO. Norton Lake

HOLE NO. U-3

SHEET NO. 2 of 2

Depth (Mt.)		Description	Sample No.	From	To	Width	Beil White (μg/g)			X-Ray		Zn%
From	To						Au	Ag	Cu	Ni		
		Sample Intervals: 58.22 - 58.72	5217			0.5	0.001	0.03	0.06	0.07	.003	
		58.72 - 59.57	5218			0.85	Tr.	0.18	0.15	2.04	.002	
		(66% core recovery) 59.57 - 59.91	5219			0.34	0.001	0.13	0.76	0.70	.004	
		59.91 - 60.91	5220			1.00	0.002	0.07	0.73	0.29	.006	
		60.91 - 61.91	5221			1.00	0.002	0.12	0.54	0.87	.003	
		61.91 - 62.91	5222			1.00	Tr.	0.06	0.21	0.67	.003	
		62.91 - 63.91	5223			1.00	Tr.	0.08	0.24	0.92	.002	
		63.91 - 64.91	5224			1.00	0.001	0.08	0.31	0.93	.003	
		64.91 - 65.91	5225			1.00	Tr.	0.08	0.15	1.82	.002	
		65.91 - 66.94	5226			1.03	Tr.	0.07	0.15	1.41	.002	
		66.94 - 67.94	5227			1.00	Tr.	0.08	0.28	1.46	.003	
		67.94 - 68.94	5228			1.00	Tr.	0.18	0.76	1.68	.003	
		(99% core recovery) 68.94 - 69.93	5229			0.99	Tr.	0.11	0.29	1.52	.002	
		69.93 - 70.93	5230			1.00	Tr.	0.08	0.30	0.60	.003	
		70.93 - 71.93	5231			1.00	Tr.	0.18	0.57	0.68	.003	
		(97% core recovery) 71.93 - 72.90	5232			0.97	Tr.	0.06	0.08	0.34	.003	
		72.90 - 74.03	5233			1.13	Tr.	0.10	0.61	0.57	.004	
		74.03 - 75.53	5234			1.50	0.002	0.06	0.18	0.39	.004	
		75.53 - 76.57	5235			1.04	0.001	0.04	0.11	0.18	.002	
		76.57 - 77.57	5236			1.00	Tr.	0.03	0.044	0.063	.002	
		(95% core recovery) 77.57 - 78.52	5237			1.00	Tr.	0.02	0.019	0.021	.003	
		21.73 - 23.61	5312			1.88	Tr.		0.052	0.054		
		58.72 - 76.57				17.85			(Beil-White)			
							PT.	PD.				
						17.85	0.006	0.013				
		FROM			TO							
		58.72			76.57							

Drilled by M. Tindale

Signed D. Szasz

M. Taylor



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 15355

MAY 15 1981

DATE: May 13, 1981

SAMPLE(S) OF: Core(31)

RECEIVED: May 1981

SAMPLE(S) FROM: Prospection Limited

<u>Sample No.</u>	<u>Oz. Silver</u>	<u>Gold ppb</u>	<u>% Copper</u>	<u>% Nickel</u>	<u>% Zinc</u>
5201	Trace	5			
2	Trace	29			
3	0.02	40			
4	0.04	8			
5215	0.02	18	0.031	0.045	0.004
6	0.02	11	0.001	0.016	0.003
7	0.03	26	0.050	0.055	0.003
8	0.18	8	0.16	1.88	0.002
9	0.13	29	0.78	0.62	0.004
5220	0.07	55	0.70	0.25	0.006
1	0.12	62	0.54	0.77	0.003
2	0.06	19	0.22	0.66	0.003
3	0.08	11	0.26	0.83	0.002
4	0.08	30	0.31	0.81	0.003
5	0.08	14	0.16	1.68	0.002
6	0.07	20	0.15	0.61	0.002
7	0.08	7	0.29	1.38	0.003
8	0.18	8	0.88	1.62	0.003
9	0.11	7	0.34	1.40	0.002
5230	0.08	18	0.31	0.53	0.003
1	0.18	23	0.60	0.58	0.003
2	0.06	10	0.078	0.34	0.003
3	0.10	25	0.61	0.51	0.004
4	0.06	52	0.18	0.37	0.004
5	0.04	29	0.099	0.16	0.002
6	0.03	15	0.044	0.063	0.002
7	0.02	11	0.019	0.021	0.003
8	0.03	7			
9	0.02	8			
5240	Trace	11			
1	0.02	10			

Wasatch Mining Co.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

[Signature]



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 16710

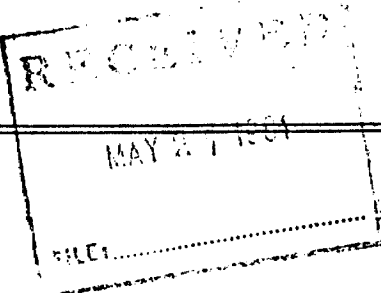
Page 1 of 2

DATE: May 25, 1981

SAMPLE(S) OF: Core(46)

RECEIVED: May 1981

SAMPLE(S) FROM: Prospection Limited



<u>Sample No.</u>	<u>Gold ppb</u>	<u>Oz. Silver</u>	<u>% Copper</u>	<u>% Nickel</u>	<u>% Zinc</u>
5295	22	0.06	0.090	0.057	0.006
6	43	0.04	0.43	0.090	0.014
7	27	0.04	0.19	0.068	0.004
8	34	0.06	0.13	0.050	0.005
9	37	0.06	0.15	0.10	0.006
5300	15	0.04	0.071	0.016	0.005
1	101	0.09	0.33	0.12	0.005
2	154	0.12	0.27	0.67	0.006
3	119	0.11	0.19	0.068	0.006
4	100	0.04	0.049		
5	53	0.08	0.13		
6	14	0.07	0.039		
7	32	0.03	0.093		
8	11	0.02	0.042		
9	12				
5310	12				
1	10				
2	11				
3	33		0.052	0.054	
4	45		0.21	0.17	
5	55		0.34	0.29	
6	18		0.12	0.11	
7	22		0.080	0.060	
8	82		0.18	0.18	
9	41		0.067	0.059	
5320	18				

*Assay file
(1700001)*

Continued...

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

RELOG

DIAMOND DRILL RECORD

PROPERTY Norton Lake Area

HOLE NO. U-14

SHEET NO. 1 of 1

Latitude 3471.2N.

Bearing South

Started July 16, 1981

Departure 0102.0W.

Dip Collar -50°; 30 m. -53°; 60 m. -50°30';
90 m. -47°; 120 m. -46°

Completed July 17, 1981

Elevation 1001.98 metres

Final Depth 142.95 metres

Depth (M.)		Description	Sample No.	From	To	Width	Oz/Ton			%		
From	To						Au	Ag	Cu	Ni		
83.50	86.18	MAFIC VOLCANICS - see ddh U-1.		(84.00 m. Specimen)								
86.18	86.78	APLITE DIKE - contacts sharp at 85° to core axis.		(86.30 m. Specimen)								
86.78	95.80	MAFIC TO ULTRAMAFIC - see ddh. U-1.		(91.00 m. Specimen)								
				(94.00 m. Specimen)								
				(95.00 m. Specimen)								
95.80	100.35	89.95 - 90.50 - tuff.		(95.80 m. Specimen)								
		AMPHIBOLITE - medium-green to black often bladed grains of amphibole and tremolite (?). Short hornblende gabbro sections. Seams, patches and stringers of pyrrhotite, some chalcopyrite.		(97.50 m. Specimen)								
				(100.30 m. Specimen)								
100.35	107.15	SULPHIDE ZONE - massive stringers of pyrrhotite, some chalcopyrite, in an amphibole matrix. Sugary white quartz at 104.30 m. and 104.50 m.		(100.50 m. Specimen)								
				(103.30 m. Specimen)								
				(104.80 m. Specimen)								
107.15	108.05	MAFIC DIKE - massive fine to medium-grained hornblende gabbro. Disseminated pyrrhotite.		(106.00 m. Specimen)								
				(107.50 m. Specimen)								
108.05	119.00	METAQUARTZITE - well bedded at 85° to core axis. Light green sugary quartz with varying hornblende and biotite content. White feldspar-rich stringers in places. Feldspar phenocrysts locally.		(109.50 m. Specimen)								
				(115.50 m. Specimen)								
				(118.50 m. Specimen)								
				96.35	108.05	11.7	0.004	Tr.	0.44	0.72		
				119.18	132.45	13.27	Tr.	Tr.	0.14	0.19		

Drilled by Tindale Drilling Limited

Signed

H. D. McLean

H. D. McLean

TB 532219

DIAMOND DRILL RECORD

PROPERTY Norton Lake Area; Anomaly U
 Latitude 3165N
 Departure 0100
 Elevation 1001-98
 Hole No. U-14
 Bearing 180°
 Dip 50°
 Started July 16, 1981
 Completed July 17, 1981
 Final Depth 142.95 metres

Depth (M.)		Description	Sample No.	From	To	Width	Oz/Ton		%	
From	To						Ag	NI	Cu	NI
0.0	4.57	Overburden.								
4.57	95.70	Basalt 4.57 - 8.35 - bleached section - fault zone. 15.55 - 17.95 - irregular pegmatite. 26.32 - 26.87 - bleached section - milky white quartz stringers at 75° to core axis. 28.64 - 29.30 - pegmatite - in stringers. 39.92 - 40.30 - quartz vein - 90° to core axis. 40.72 - 41.05 - altered zone - 90° to core axis; carbonates, silicates, potash feldspar. 44.0 - 44.20 - altered pegmatite. 54.50 - 62.0 - pillow lavas - some chalcopyrite; pyrrhotite in selvages; some quartz, green silicates, muscovite. 66.82 - 68.20 - sediments - dark, chloritic carbonate seams, garnets; bedding 80° to core axis. 75.20 - 75.25 - semi-massive - pyrrhotite at 80° to core axis. 82.00 - 85.00 - fine agglomerate - flow structures. 86.20 - 86.80 - pegmatite - 80° to core axis. 86.80 - 88.40 - altered granitized scattered pegmatite sections to core axis; minor chalcopyrite. 93.85 - 3 cm massive section of pyrrhotite, pyrite at 80° to core axis; minor chalcopyrite. 95.0 - 96.41 - altered section - quartz, calcite, biotite, epidote, in stringers; some pyrrhotite, pyrite chalcopyrite	5672	94.00	95.70	1.70	0.005	NI	0.17	0.07
95.70	108.05	Sulphide zone - mafic matrix. 95.70 - 96.35 - <5% pyrrhotite in seams; minor pyrite and chalcopyrite. 96.35 - 97.84 - 10% pyrrhotite, in massive seams and patches; 10% chalcopyrite. 97.84 - 98.92 - 15% pyrrhotite in massive seams, patches; 5% pyrite 98.92 - 100.37 - 10% pyrrhotite in massive seams, patches, and grains, some pyrite, chalcopyrite. 100.37-101.47 - 50% massive pyrrhotite, 5% chalcopyrite.	5673 5674 5675 5676 5677	95.70 96.35 97.84 98.92 100.37	96.35 97.84 98.92 100.37 101.47	0.65 1.49 1.08 1.45 1.10	0.002 0.003 0.007 0.006 0.006	Tr. NI NI NI Tr.	0.06 0.21 0.88 0.22 0.92	0.19 0.56 0.50 0.48 0.96

...12.

By Taylor

Signed

Drilled by

DIAMOND DRILL RECORD

PROPERTY NO.

Norton Lake Area - Anomaly U

HOLE NO.

U-14

SHEET NO. 2 of 2

Depth (ft.)		Description	Sample No.	From	To	Width	Oz/Ton		%	
From	To						Au	Ag	Cu	Ni
95.70 (cont'd)	108.05	101.47 - 102.50 - 60% massive pyrrhotite, some chalcopyrite, pyrite.	5678	101.47	102.50	1.03	NII	NII	0.25	1.27
		102.50 - 103.32 - 40% pyrrhotite, some pyrite, 3% chalcopyrite.	5679	102.50	103.32	0.82	0.002	NII	0.92	0.50
		103.32 - 104.85 - 35% pyrrhotite, in seams, stringers and patches; 5% pyrite, some chalcopyrite.	5680	103.32	104.85	1.53	0.010	Tr.	0.46	1.33
		104.85 - 106.22 - 15% pyrrhotite, massive seams, stringers, patches 1-2% chalcopyrite; siliceous and mafic matrix.	5681	104.85	106.22	1.37	0.002	NII	0.30	0.66
108.05	132.45	106.22 - 107.12 - 10% pyrrhotite, in seams stringers, patches, 1% chalcopyrite; mafic matrix.	5682	106.22	107.12	0.90	0.004	Tr.	0.33	0.39
		107.12 - 108.05 - gabbroic; <5% pyrrhotite, some chalcopyrite.	5683	107.12	108.05	0.93	0.002	Tr.	0.10	0.35
		Siliceous sediments - banding 80-85° to core axis.								
		118.92 - 119.18 - quartz; some chalcopyrite grains.								
132.45	142.95	119.18 - 122.18 - disseminated sulphides - scattered seams, disseminated grains; concentration pyrrhotite, pyrite, chalcopyrite.	5684	119.18	122.18	3.00	Tr.	Tr.	0.20	0.37
		122.18 - 125.18 - as above.	5685	122.18	125.18	3.00	NII	Tr.	0.09	0.14
		125.18 - 128.18 - as above.	5686	125.18	128.18	3.00	NII	Tr.	0.07	0.09
		128.18 - 130.75 - as above.	5687	128.18	130.75	2.57	NII	NII	0.17	0.15
		130.75 - 132.45 - as above.	5688	130.75	132.45	1.70	0.03	NII	0.22	0.23
142.95	142.95	Cherty section - rounded white feldspar, 85° bedding to core axis.								
		END OF HOLE.								

Drilled by TINDALE DRILLING

Signed H.D. McLEOD

H.D. McLEOD

AMPLE	AU OZ/TON	NI %	CU %	AG OZ/TON
5662	0.005	0.01	0.04	TRACE
5663	0.003	0.02	0.03	TRACE
5664	0.001	0.12	0.04	NIL
5665	0.004	0.01	0.03	NIL
5666	0.003	0.13	0.07	TRACE
5667	0.001	0.43	0.26	TRACE
5668	0.002	0.96	0.96	NIL
5669	0.001	0.27	0.26	TRACE
5670	0.001	0.33	0.13	TRACE
5671	0.005	0.09	1.71	TRACE
5672	0.005	0.07	0.17	NIL
5673	0.002	0.19	0.06	TRACE
5674	0.003	0.56	0.21	NIL
5675	0.007	0.50	0.88	0.14
5676	0.006	0.48	0.22	NIL
5677	0.006	0.96	0.92	TRACE
5678	NIL	1.27	0.25	NIL
5679	0.002	0.50	0.92	NIL
5680	0.010	1.33	0.46	TRACE
5681	0.002	0.66	0.30	NIL
5682	0.004	0.39	0.33	TRACE
5683	0.002	0.35	0.10	TRACE
5684	TRACE	0.37	0.20	TRACE
5685	NIL	0.14	0.09	TRACE
5686	NIL	0.09	0.07	TRACE
5687	NIL	0.15	0.17	NIL
5688	0.003	0.23	0.22	NIL
5689	0.038	0.04	0.56	NIL
5690	NIL	0.06	0.21	NIL
5691	0.002	0.78	0.13	NIL
5692	0.002	0.73	0.53	TRACE

Norton Lake Summer 2002 Drill Program - Hole C (J. Halle, J. Johnson)

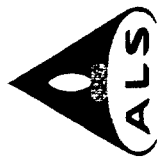
Drill Hole "C"

Footage (m)		Rock type	Alteration, Mineralization & Structure
from	to		
1.73	1.80	Overburden	* lag stands of quartzite, mafic and intermediate volcanics, granite, metasedimentary rocks
1.80	18.92	Mafic <i>Metavolcanics with interbedded sedimentary horizons</i>	<ul style="list-style-type: none"> * at 1.80m: homogenous, mafic metavolcanics cut by numerous quartz /CO3 veinlets * possibly pillowed with darker amphibole and chl-rich selvages * pink granite dike (1cm wide) cuts metabasalt at 3.45m * intrusive (?) in bleached (alb alt?) country rock hosts pyrr/cpy at 4.97m <ul style="list-style-type: none"> * chalco possibly remobilized into late veinlet which x-cuts this horizon (again at 5.70m) * feldspar lapilli at 5.74m * tufaceous horizon (with feld-lapilli) at 8.53m and 10.00m have remobilized sulfides in vein and veinlets and small grains within horizon * amphibole rich blebs with alteration haloes have most mineralization (eg. At 6.68m [cpy] and at 8.80m [pyrr, cpy]) * late qu vein (chloritized inclusive) shows pyrr cpy associated with inclusions * at 15.23m: pink cg, granite pegmatite; hem altered toward margin, accessory tourmaline <ul style="list-style-type: none"> * also at 17.65m
18.92	21.30	Metasedimentary unit	<ul style="list-style-type: none"> * schistose to gneissic * rare horizons of shorl (at 19.20m) * garnet at 22.47m
21.30	44.72	Mafic meta-volcanics with sedimentary interbeds	<ul style="list-style-type: none"> * pillow interfaces visible at 35.43m * shear zone (pseudomylonitic) in felsic intrusive rock at 22.60m for 10cm (qu ribbons in a chl/kspar altered dike with 5% blocky cpy) * qu/CO3, epidote veins at 25.22m (cg not mineralized) and at 22.70m (42cm, mineralized proximal to its margins or with mafic clots; cpy/pyrr to 10%) * sulfide stringers at 50 degree angle to core axis at 34.00m, 33.09m and 35.13m (carries primarily py with trace pyrr/cpy) * also at 37.31m, 37.57m, 39.26m (stringers for 10cm), 43.16m, 43.40m, 43.64m (mineralization governed by higher grade amphibole-rich shear zones?) <p>Sedimentary interbeds: * at 29.50m (for 20cm), 31.14m (for 18cm) and 31.57m (for 29cm)</p> <ul style="list-style-type: none"> * interbeds have trace py, cpy as fine stringers following schistosity * schistosity at 52 degrees to core axis
44.72	48.54	Metasedimentary unit (with mmv)	<ul style="list-style-type: none"> * stringers at 40.79m, 42.02m, 43.27m and 44.42m (primarily py, +/- pyrr; pyrr mainly in darker amphibolitized units) to 15% * amphibole grade, gneissosity at 60 degrees to core axis * <5% cpy, pyrr * sheared garnet at 45.04m (?)
48.54	53.31	Mafic metavolcanics	
53.31	54.04	Metasedimentary unit	* possibly lapilli tuff (homogenous, schistose)

Norton Lake Summer 2002 Drill Program - Hole C (J. Halle, J. Johnson)

Drill Hole "C"

Footage (m)		Rock type	Alteration, Mineralization & Structure
from	to		
54.04	54.17	Granite dike (aplite)	* qu, ksp, garnet, cg
54.17	59.16	Mafic meta-volcanics with sedimentary inter-fingerings	* homogenous but veined * typical, spaced, bleached felsic horizons with cpy to 5% (<3cm wide) at 55.96m and 56.70m
59.16	70.23	Metasedimentary unit	* schistose to gneissic * amphibole grade * rare, individual grains of cpy in umaf * v. well foliated at 49 degrees to core axis
70.23	end of box [75.39]	Mafic to Ultramafic Metavolcanics	* cpy/pyrr to 5% within rock (esp. umafic) * mineralized amphibolite lense more frequent in umaf * quartz veins to 5cm with chl, CO3, salmon-coloured feld. (hosts 10% cpy, pyrr) * ultramafic evident (>73.64m) * sulfide stringers in very amphibolitic lenses at 74.24m, 74.32m, 74.39m, 74.65m, 74.87m, 75.15m and 75.31m * host pyrr to 5%
Box 18: * starts 2.37m up from 255' or 7'9" from 255'0" (74.29m = 247'3"; 247.25 ft)			
74.93	75.22	Pyroxenite with 10% sulfides	
75.22	83.33	Massive Sulfides	* pyrrhotite chalco pyrite 10% X1 py (74.92m to 75.33m; length of split: 0.4; Sample No. 386383) * fragments of pyroxenite-hornblende (75.33m to 76.33m; length of split: 1.0; Sample No: 386384) * up to 90% sulfide pyrrhotite, 5% chalco - phases up to 10% (76.33m to 77.33m; length of split: 1.0; Sample No: 386385) * fragments of hornblende (77.33m to 78.33m; length of split: 1.0; Sample No: 386386) (78.33m to 79.33m; length of split: 1.0; Sample No: 386387) (79.33m to 80.33m; length of split: 1.0; Sample No: 386388) (80.33m to 81.33m; length of split: 1.0; Sample No: 386389) (81.33m to 82.33m; length of split: 1.0; Sample No: 386396) *ends 275' = 83.33m (82.33m to 83.33m; length of split: 1.0; Sample No: 386397)
83.33	83.98		Chalcopyrite 5-10% in pyroxenite-hornblende (83.33m to 83.98m; length of split: 0.65; Sample No: 386398)
83.98	84.58		Quartz vein in mafic schist (chlorite) (83.98m to 84.58m; length of split: 0.6; Sample No: 386399)
84.58	85.43		Chalco 1% in mafic schist-"amphibole tuff" (84.58m to 85.45m; length of split: 0.85; Sample No: 386400)



ALS Chemex

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

CERTIFICATE

A0219136

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON
P.O. #:

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 08-JUL-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
205	12	Geechem ring to approx 150 mesh
226	12	0-3 kg crush and split
3202	12	Rock - save entire reject
229	12	ICP - AQ Digestion charge

* NOTE 1.

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

To: EAST WEST RESOURCE CORP.
402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

Comments: ATTN: BOB MIDDLETON

A0219136

ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
AU-ICP23	12	AU ppb: FA ICP package	FA-ICP	2	10000
PT-ICP23	12	Pt ppb: FA ICP package	FA-ICP	2	10000
PD-ICP23	12	Pd ppb: FA ICP package	FA-ICP	2	10000
AG-ICP41	12	Ag ppm: 32 element, soil & rock	ICP-AES	0.02	100.0
AL-ICP41	12	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
AS-ICP41	12	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	12	B ppm: 32 element, rock & soil	ICP-AES	10	10000
BA-ICP41	12	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
BE-ICP41	12	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
BI-ICP41	12	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
CA-ICP41	12	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
CD-ICP41	12	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
CO-ICP41	12	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
CR-ICP41	12	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
CU-ICP41	12	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
FE-ICP41	12	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
GA-ICP41	12	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
HG-ICP41	12	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	12	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
LA-ICP41	12	La ppm: 32 element, soil & rock	ICP-AES	10	10000
MG-ICP41	12	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
MN-ICP41	12	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
MO-ICP41	12	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
NA-ICP41	12	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
NI-ICP41	12	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	12	P ppm: 32 element, soil & rock	ICP-AES	10	10000
PB-ICP41	12	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	12	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
SB-ICP41	12	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
SC-ICP41	12	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
SR-ICP41	12	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
TI-ICP41	12	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	12	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	12	V ppm: 32 element, soil & rock	ICP-AES	10	10000
W-ICP41	12	W ppm: 32 element, soil & rock	ICP-AES	1	10000



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402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

A0219136

Comments: ATTN: BOB MIDDLETON

CERTIFICATE

A0219136

Client: EAST WEST RESOURCE CORP.

Project: NORTON

Lab. #:

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 08-JUL-2002.

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METHOD CODE	NUMBER SAMPLES	DESCRIPTION
205	12	Geochem ring to approx 150 mesh
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* NOTE 1:

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ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Zn-ICP41	12	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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Project: NORTON
Comments: ATTN: BOB MIDDLETON

Page Number : 1-A
Total Pages : 1
Certificate Date: 08-JUL-2002
Invoice No. : 10219136
P.O. Number :
Account : NMC

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CERTIFICATE OF ANALYSIS A0219136

SAMPLE	PREP CODE	Au	Pt	Pd	Pb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K
		ICP	ICP	ICP	ICP	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%
386383	205 226	36	100	584	1.8	1.35	6	< 2	< 10	30	< 0.5	< 2	0.57	2.0	373	126	5080	14.50	10	< 1	0.22
386384	205 226	< 4	90	204	2.0	0.74	2	< 2	< 10	10	< 0.5	< 2	0.30	3.5	381	89	6380	>15.00	20	< 1	0.09
386385	205 226	32	200	700	0.6	0.84	< 2	< 10	< 10	10	< 0.5	< 2	0.27	3.5	468	124	3600	>15.00	10	< 1	0.10
386386	205 226	52	110	780	1.4	0.56	4	< 10	< 10	< 10	< 0.5	< 2	0.17	5.0	905	90	5990	>15.00	20	< 1	0.03
386387	205 226	24	90	948	1.8	0.45	< 2	< 10	< 10	< 10	< 0.5	< 2	0.19	4.5	619	90	7350	>15.00	20	< 1	0.03
386388	205 226	36	120	832	2.8	0.38	< 2	< 10	< 10	< 10	< 0.5	6	0.25	3.0	1085	66	9140	>15.00	10	< 1	0.04
386389	205 226	72	140	844	2.6	0.41	2	< 10	< 10	< 10	< 0.5	2	0.30	3.5	950	60	9260	>15.00	10	< 1	0.03
386396	205 226	16	130	460	1.8	1.26	8	< 10	< 10	< 10	< 0.5	< 2	0.21	< 0.5	346	86	5200	14.60	10	< 1	0.04
386397	205 226	20	160	972	< 0.2	0.60	2	< 10	< 10	< 10	< 0.5	< 2	0.30	3.0	616	63	2130	>15.00	20	< 1	0.05
386398	205 226	24	140	604	< 0.2	0.60	4	< 10	< 10	< 10	< 0.5	< 2	0.40	3.0	439	42	1570	>15.00	10	< 1	0.07
386399	205 226	8	25	110	1.6	0.91	< 2	< 10	< 10	20	1.5	< 2	0.77	< 0.5	48	157	3340	3.26	10	< 1	0.14
386400	205 226	< 2	< 5	18	0.4	1.51	< 2	< 10	< 10	40	2.5	< 2	0.29	0.5	17	218	168	2.50	10	< 1	0.32

CERTIFICATION: _____



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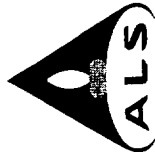
Project: NORTON
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Page Number : 1-B
Total Pages : 1
Certificate Date: 08-JUL-2002
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P.O. Number :
Account : NMZ

CERTIFICATE OF ANALYSIS A0219136

SAMPLE	PREP CODE	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
386383	205 226	< 10	1.40	585	< 1	0.08	5290	130	6	7.94	< 2	1	4	0.08	< 10	< 10	36	< 10	60
386384	205 226	< 10	0.78	455	< 1	0.04	>10000	110	12	9.94	2	< 1	< 1	0.03	< 10	< 10	18	< 10	36
386385	205 226	< 10	0.82	480	< 1	0.05	9530	110	10	7.83	< 2	< 1	2	0.03	< 10	< 10	22	< 10	36
386386	205 226	< 10	0.59	365	< 1	0.03	>10000	80	14	>10.00	< 2	< 1	< 1	0.03	< 10	< 10	19	< 10	50
386387	205 226	< 10	0.44	270	< 1	0.03	>10000	150	10	8.80	< 2	< 1	< 1	0.02	< 10	< 10	18	< 10	40
386388	205 226	< 10	0.33	230	< 1	0.03	8290	120	12	>10.00	< 2	< 1	< 1	0.02	< 10	< 10	14	< 10	46
386389	205 226	< 10	0.37	355	< 1	0.03	8920	130	10	>10.00	< 2	< 1	1	0.01	< 10	< 10	13	< 10	46
386396	205 226	< 10	1.86	330	< 1	0.03	6250	100	4	7.12	< 2	< 1	< 1	0.01	< 10	< 10	18	< 10	30
386397	205 226	< 10	0.53	300	< 1	0.04	>10000	140	12	>10.00	< 2	< 1	1	0.02	< 10	< 10	15	< 10	16
386398	205 226	< 10	0.44	185	< 1	0.05	>10000	490	12	>10.00	2	< 1	3	0.05	< 10	< 10	17	< 10	12
386399	205 226	< 10	1.02	340	< 1	0.10	950	410	< 2	1.53	< 2	3	5	0.08	< 10	< 10	25	< 10	24
386400	205 226	10	1.70	285	< 1	0.08	278	250	4	0.47	< 2	2	6	0.09	< 10	< 10	32	< 10	62

CERTIFICATION: _____



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TO: EAST WEST RESOURCE CORP.

402 - 905 W.PENDER ST.
VANCOUVER, BC
V6C 1L6

INVOICE NUMBER

I 0 2 1 9 7 2 2

BILLING INFORMATION

Date: 18-JUL-2002

Project: NORTON

P.O. No.:

Account: NMZ

Comments:

Billing:

For analysis performed on
Certificate A0219722

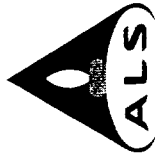
Terms:

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

Please Remit Payments to:

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

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
7	- ME-MS81 - ME-XRF06 - PREP-31	26.00 32.00 6.00	64.00	448.00
Total Cost \$				448.00
Client Discount (25%) \$				-112.00
Net Cost \$				336.00
(Reg# R100938885) GST \$				23.52
TOTAL PAYABLE (CDN) \$				359.52



ALS Chemex

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

CERTIFICATE

A0219722

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON
P.O. #:

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 18-JUL-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
208	7	Assay ring to approx 150 mesh
226	7	0-3 Kg crush and split
3202	7	Rock - save entire reject
297	7	Meta-borate fusion charge

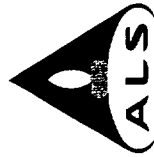
To: EAST WEST RESOURCE CORP.
402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

A0219722

Comments: ATTN: BOB MIDDLETON

ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Al-XRF06	7	Al2O3 %: XRF	XRF	0.01	100.00
Ba-XRF06	7	BaO %: XRF	XRF	0.01	100.00
Ca-XRF06	7	CaO %: XRF	XRF	0.01	100.00
Cr-XRF06	7	Cr2O3 %: XRF	XRF	0.01	100.00
Fe-XRF06	7	Fe2O3 %: XRF	XRF	0.01	100.00
K-XRF06	7	K2O %: XRF	XRF	0.01	100.00
Mg-XRF06	7	MgO %: XRF	XRF	0.01	100.00
Mn-XRF06	7	MnO %: XRF	XRF	0.01	100.00
Na-XRF06	7	Na2O %: XRF	XRF	0.01	100.00
P-XRF06	7	P2O5 %: XRF	XRF	0.01	100.00
Si-XRF06	7	SiO2 %: XRF	XRF	0.01	100.00
Sr-XRF06	7	SrO %: XRF	XRF	0.01	100.00
Ti-XRF06	7	TiO2 %: XRF	XRF	0.01	100.00
OA-XRF06	7	LOI %: XRF	XRF	0.01	100.00
OA-XRF06	7	Total %	CALCULATION	0.01	105.00
Ag-MS81	7	Ag ppm: ICP-MS	ICP-MS	1	1000
Ba-MS81	7	Ba ppm: ICP-MS	ICP-MS	0.5	10000
Ce-MS81	7	Ce ppm: ICP-MS	ICP-MS	0.5	10000
Co-MS81	7	Co ppm: ICP-MS	ICP-MS	0.5	10000
Cr-MS81	7	Cr ppm: ICP-MS	ICP-MS	10	10000
Cs-MS81	7	Cs ppm: ICP-MS	ICP-MS	0.1	10000
Cu-MS81	7	Cu ppm: ICP-MS	ICP-MS	5	10000
Dy-MS81	7	Dy ppm: ICP-MS	ICP-MS	0.1	1000
Er-MS81	7	Er ppm: ICP-MS	ICP-MS	0.1	1000
Eu-MS81	7	Eu ppm: ICP-MS	ICP-MS	0.1	1000
Ga-MS81	7	Ga ppm: ICP-MS	ICP-MS	1	1000
Gd-MS81	7	Gd ppm: ICP-MS	ICP-MS	0.1	1000
Hf-MS81	7	Hf ppm: ICP-MS	ICP-MS	1	10000
Ho-MS81	7	Ho ppm: ICP-MS	ICP-MS	0.1	1000
La-MS81	7	La ppm: ICP-MS	ICP-MS	0.5	10000
Lu-MS81	7	Lu ppm: ICP-MS	ICP-MS	0.1	1000
Mo-MS81	7	Mo ppm: ICP-MS	ICP-MS	2	10000
Nb-MS81	7	Nb ppm: ICP-MS	ICP-MS	1	10000
Nd-MS81	7	Nd ppm: ICP-MS	ICP-MS	0.5	10000
Ni-MS81	7	Ni ppm: ICP-MS	ICP-MS	5	10000
Pb-MS81	7	Pb ppm: ICP-MS	ICP-MS	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: EAST WEST RESOURCE CORP.
402 - 905 W.PENDER ST.
VANCOUVER, BC
V6C 1L6

A0219722

Comments: ATTN: BOB MIDDLETON

CERTIFICATE

A0219722

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON
P.O. #:

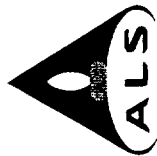
Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 18-JUL-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
208	7	Assay ring to approx 150 mesh
226	7	0-3 Kg crush and split
3202	7	Rock - save entire reject
297	7	Meta-borate fusion charge

ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Pr-MS81	7	Pr ppm: ICP-MS	ICP-MS	0.1	1000
Rb-MS81	7	Rb ppm: ICP-MS	ICP-MS	0.2	10000
Sm-MS81	7	Sm ppm: ICP-MS	ICP-MS	0.1	1000
Sr-MS81	7	Sr ppm: ICP-MS	ICP-MS	1	10000
Ta-MS81	7	Ta ppm: ICP-MS	ICP-MS	0.1	10000
Tb-MS81	7	Tb ppm: ICP-MS	ICP-MS	0.5	10000
Th-MS81	7	Th ppm: ICP-MS	ICP-MS	0.1	1000
Ti-MS81	7	Ti ppm: ICP-MS	ICP-MS	0.5	1000
Tm-MS81	7	Tm ppm: ICP-MS	ICP-MS	0.1	1000
U-MS81	7	U ppm: ICP-MS	ICP-MS	0.5	1000
V-MS81	7	V ppm: ICP-MS	ICP-MS	5	10000
W-MS81	7	W ppm: ICP-MS	ICP-MS	1	10000
Y-MS81	7	Y ppm: ICP-MS	ICP-MS	0.5	1000
Yb-MS81	7	Yb ppm: ICP-MS	ICP-MS	0.1	1000
Zn-MS81	7	Zn ppm: ICP-MS	ICP-MS	5	10000
Zr-MS81	7	Zr ppm: ICP-MS	ICP-MS	0.5	10000



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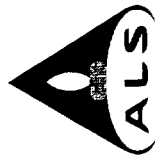
Project: NORTON
Comments: ATTN: BOB MIDDLETON

Page Number : 1-A
Total Pages : 1
Certificate Date: 18-JUL-2002
Invoice No. : 10219722
P.O. Number :
Account : NMZ

CERTIFICATE OF ANALYSIS A0219722

SAMPLE	PREP CODE	Al2O3 % XRF	BaO % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	SrO % XRF	TiO2 % XRF	LOI % XRF	TOTAL %	Ag ppm	Ba ppm	Ce ppm	Co ppm
386601	208 226	17.16	0.08	8.82	0.04	9.78	1.37	4.85	0.20	3.33	0.29	51.16	0.07	1.12	1.08	99.35	< 1	614	47.5	47.5
386602	208 226	17.71	< 0.01	11.06	0.05	10.11	0.41	4.20	0.34	3.06	0.10	50.81	0.01	1.07	0.94	99.87	< 1	62.5	12.5	59.0
386603	208 226	14.47	0.03	6.29	0.05	7.66	0.91	6.71	0.14	3.52	0.11	58.70	0.04	0.55	0.69	99.87	< 1	234	32.5	30.5
386604	208 226	17.44	0.01	12.40	0.05	7.92	0.18	3.97	0.26	2.42	0.11	53.29	0.02	1.07	0.68	99.82	< 1	28.5	12.0	59.5
386605	208 226	12.83	0.02	14.20	0.04	16.62	0.50	6.13	0.59	0.94	0.09	44.03	0.01	0.83	1.38	98.21	1	63.0	14.5	102.5
386606	208 226	14.36	0.01	10.90	0.04	15.52	0.57	6.12	0.46	2.33	0.08	47.08	0.01	0.92	0.64	99.04	< 1	78.0	12.0	73.5
386607	208 226	10.46	0.04	5.90	0.09	9.36	1.96	11.84	0.18	1.66	0.08	55.99	0.02	0.42	1.45	99.45	< 1	275	23.5	45.0

CERTIFICATION: *[Signature]*



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

To: EAST WEST RESOURCE CORP.
402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

Project: NORTON
Comments: ATTN: BOB MIDDLETON

Page Number : 1-B
Total Pages : 1
Certificate Date: 18-JUL-2002
Invoice No. : 10219722
P.O. Number :
Account : NMZ

CERTIFICATE OF ANALYSIS A0219722

SAMPLE	PREP CODE	Cr ppm	Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	Pb ppm	Pr ppm	Rb ppm
386601	208 226	330	1.0	40	4.1	2.4	1.7	20	5.5	2	0.8	22.5	0.3	6	5	27.0	115	10	6.3	32.2
386602	208 226	410	2.4	110	3.8	2.5	0.9	18	3.0	1	0.9	7.5	0.4	6	3	8.5	150	5	1.9	10.8
386603	208 226	380	5.3	15	2.3	1.5	0.7	15	2.8	3	0.5	17.5	0.2	6	5	13.0	155	10	3.5	36.6
386604	208 226	400	0.4	135	3.5	2.3	0.9	18	2.9	1	0.8	7.0	0.4	6	3	8.5	205	5	1.7	4.4
386605	208 226	290	2.4	4870	4.6	3.3	1.0	19	3.3	1	1.0	9.0	0.6	26	2	9.0	170	< 5	1.9	27.2
386606	208 226	310	1.0	1810	3.8	2.7	0.8	18	2.8	1	0.8	8.0	0.5	6	3	7.5	155	10	1.6	9.4
386607	208 226	740	19.1	325	2.0	1.3	0.5	14	2.3	2	0.4	14.0	0.2	6	5	10.5	395	5	2.6	71.6

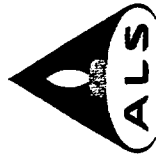
CERTIFICATION:

Spica Curran

CERTIFICATE OF ANALYSIS A0219722

SAMPLE	PREP CODE	Sm ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
386601	208 226	5.7	1 441	< 0.5	0.8	3	< 0.5	0.3	0.5	255	6	21.5	2.0	90	92.5
386602	208 226	2.6	< 1 136.0	< 0.5	0.6	< 1	< 0.5	0.4	< 0.5	295	2	22.0	2.3	105	63.0
386603	208 226	2.5	4 218	< 0.5	0.4	4	< 0.5	0.2	1.0	110	2	13.5	1.3	70	108.0
386604	208 226	2.5	3 160.0	< 0.5	0.6	< 1	< 0.5	0.3	< 0.5	290	6	20.5	2.0	90	55.5
386605	208 226	2.7	4 86.9	< 0.5	0.6	< 1	< 0.5	0.5	< 0.5	240	3	30.5	3.1	200	43.0
386606	208 226	2.4	1 83.3	< 0.5	0.6	< 1	< 0.5	0.4	< 0.5	240	3	24.0	2.5	300	49.5
386607	208 226	2.1	2 92.9	< 0.5	0.3	3	< 0.5	0.1	0.5	80	5	11.5	1.2	110	82.0

CERTIFICATION: *[Signature]*



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

To: EAST WEST RESOURCE CORP.

402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

INVOICE NUMBER

I 0 2 1 9 7 9 7

BILLING INFORMATION

Date: 16-JUL-2002
Project: NORTON
P.O. No.:
Account: NMZ

Comments:

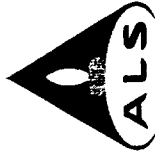
Billing: For analysis performed on
Certificate A0219797

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

Please Remit Payments to:

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

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	212 - Overlimit pulp, to be found Ni-AA62 - Ni %: HClO4-HNO3-HF digestion	0.00 8.00	8.00	40.00
Total Cost \$				40.00
Client Discount (25%) \$				-10.00
Net Cost \$				30.00
(Reg# R100938885) GST \$				2.10
TOTAL PAYABLE (CDN) \$				32.10



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British Columbia, Canada V7J 2C1
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To: EAST WEST RESOURCE CORP.
402 - 805 W PENDER ST.
VANCOUVER, BC
V6C 1L6

A0219797

Comments: ATTN: BOB MIDDLETON

CERTIFICATE

A0219797

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON

P.O. #:

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 15-JUL-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
212	5	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
NI-AA62	5	NI %: HClO4-HNO3-HF digestion	AA5	0.01	50.0



10: EAST WEST RESOURCE CORP.

402 - 905 W.PENDER ST.
VANCOUVER, BC
V6C 1L6

Project : NORTON
Comments: ATTN: BOB MIDDLETON

Page Number : 1
Total Pages : 1
Certificate Date: 15-JUL-2002
Invoice No. : 10219797
P.O. Number :
Account : NMZ

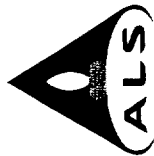
CERTIFICATE OF ANALYSIS

OVERLIMITS from A0219136

Norton Lake Summer 2002 Drill Program - Hole G (J. Halle, J. Johnson)

Drill Hole "G"

Footage (m)		Rock type	Alteration, Mineralization & Structure
from	to		
1.27	1.36	Overburden	* rounded stones of limestone, gr, mafic volcanic
1.36	32.51	Mafic Volcanic with sed. interbeds	* metavolcanic pillows and flows, mg, homogenous with wispy stringers of coarser-grained mafic-ultramafic, amphib-rich rock with distinct alteration halos * carry py with lesser cpy/pyrr (never abundant) * sedimentary interbeds from few cm (pillow margins?) to few m (have been pervasively altered to amphibite/ +/- garnet, well fol to gneissic) * sed'y beds at 41 degrees to core axis
Sedimentary Units: * at 2.51m to 2.89m, 3.69m to 4.57m, 13.95m to 15.39m, 16.99m to 17.15m, 18.04m to 19.64m, 20.09m to 21.56m and 29.57m to 30.16m			
Sulfide showings: * (associated with short sed'y interbeds) at 8.06m (for 2cm), 8.19m and 8.25m (for 2cm each and are net textured py-rich), 11.79m, 16.07m, 24.11m (umaf bleb)			
Massive CO3lepi dike has sharp contacts and few % py at 4.90m (for 30cm)			
Felsic (fg, siliceous, vuggy, qu/CO3(ep) dike from 5.40m to 7.67m has alteration halo at margins controlled by fractures * py cubes to 10%			
Pervasive chloritization between 11.82m to 12.00m and 30.82m to 31.03m			
Amphibole tuff , massive fol, generally homo, from 22.12m o 23.09m carries to 5% cpy, py, +/-pyrr (very sharp contacts;			
Hyaloclastite at 26.10m			
32.51	34.14	Umaf	* mafic to ultramafic volcanic rock * fg, dk gm to black, chl grade * low to 5% sulfides concentrated in blebs and veinlets of qu/CO3 and amphib + chl. & red mm. (axinite?) (py, cpy) * wispy sheared veinlets throughout * qu/CO3 veinlet at 31.77cm
34.14	44.91	Px /te	* cg, massive to foliated, chloritized amphibite to px ite * sharp contacts (coarse to margin) * matrix holds ~10% sulfides but stringers of pyrr, cpy, and euhedral py (10:1:1) at 60 degrees to core axis can dominate the rock to 90% * distinct compositional layering seen at 35.30m * stringers can become vuggy (eg. 35.00m) * intrusive breccia (with distinctly rounded fragments) between 40.39m to 41.68m and 42.06m and 44.02m * QV at 44.07m and 44.81m (to 5cm each)
44.91	64.05	Amph. Tuff with sed'y interbeds	* mica (chl, biotite) - rich, well fol, c-mg generally homogenous meta-tuff * matrix holds 5% pyrite * trace cpy concentrated in mafic-rich blebs and/or felsic segregations * foliation at 52 degrees to core axis * sulfides decrease along section * distinctly finer garnet at 49.43m to 50.29m * local shear zones at 53 degrees to core axis



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EAST WEST RESOURCE CORP.

402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

INVOICE NUMBER I 0 2 2 2 2 9 1

BILLING INFORMATION

Date: 27-AUG-2002
Project: NORTON
P.O. No.:
Account: NMZ

Comments:

Billing: For analysis performed on
Certificate A0222291

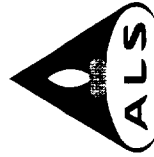
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

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

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
93	- PGM-MS23 - ME-ICP41 - PREP-31	15.00 8.00 6.00	29.00	2697.00
Total Cost \$				2697.00
Client Discount (25%) \$				-674.25
Net Cost \$				2022.75
(Reg# R100938885) GST \$				141.59
TOTAL PAYABLE (CDN) \$				2164.34

pd



Aurora Laboratory Services Ltd.
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212 Brookbank Ave., North Vancouver
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TO: EAST WEST RESOURCE CORP.
402 - 905 W.PENDER ST.
VANCOUVER, BC
V6C 1L6

A0222291

Comments: ATTN: BOB MIDDLETON

CERTIFICATE A0222291

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON
P.O. #:

Samples submitted to our lab in Thunder Bay, ON
This report was printed on 27-AUG-2002.

SAMPLE PREPARATION

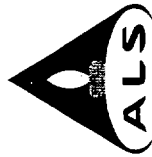
METHOD CODE	NUMBER SAMPLES	DESCRIPTION
205	93	Geochem ring to approx 150 mesh
226	93	0-3 Kg crush and split
3202	93	Rock - save entire reject
229	93	ICP - AQ Digestion charge

* NOTE 1.

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
AU-MS23	93	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
PT-MS23	93	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
PD-MS23	93	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
AG-ICP41	93	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
AL-ICP41	93	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
AS-ICP41	93	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	93	B ppm: 32 element, rock & soil	ICP-AES	10	10000
BA-ICP41	93	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
BE-ICP41	93	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
BI-ICP41	93	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
CA-ICP41	93	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
CD-ICP41	93	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
CO-ICP41	93	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
CR-ICP41	93	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
CU-ICP41	93	Cu ppm: 32 element, soil & rock	ICP-AES	0.01	15.00
FE-ICP41	93	Fe %: 32 element, soil & rock	ICP-AES	10	10000
GA-ICP41	93	Ga ppm: 32 element, soil & rock	ICP-AES	1	10000
HG-ICP41	93	Hg ppm: 32 element, soil & rock	ICP-AES	0.01	10.00
K-ICP41	93	K %: 32 element, soil & rock	ICP-AES	10	10000
LA-ICP41	93	La ppm: 32 element, soil & rock	ICP-AES	0.01	15.00
MG-ICP41	93	Mg %: 32 element, soil & rock	ICP-AES	5	10000
MO-ICP41	93	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
NA-ICP41	93	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
NI-ICP41	93	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	93	P ppm: 32 element, soil & rock	ICP-AES	10	10000
PB-ICP41	93	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	93	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
SB-ICP41	93	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
SC-ICP41	93	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
SR-ICP41	93	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
TI-ICP41	93	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
TU-ICP41	93	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	93	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	93	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	93	W ppm: 32 element, soil & rock	ICP-AES	10	10000



ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

EAST WEST RESOURCE CORP.
402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

A0222291

Comments: ATTN: BOB MIDDLETON

CERTIFICATE

A0222291

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON

P.O. #:

Samples submitted to our lab in Thunder Bay, ON
This report was printed on 27-AUG-2002.

SAMPLE PREPARATION

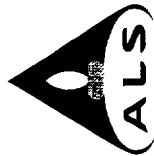
METHOD CODE	NUMBER SAMPLES	DESCRIPTION
205	93	Geochem ring to approx 150 mesh
226	93	0-3 Kg crush and split
3202	93	Rock - save entire reject
229	93	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Zn-ICP41	93	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

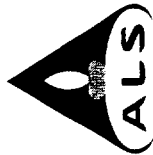


CERTIFICATE OF ANALYSIS A0222291

SAMPLE	PREP CODE	Au	Pb	Pt	Pd	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K
		ICP-MS	ICP-MS	ICP-MS	ICP-MS	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%
386477	205 226	6	8.5	18	0.4	1.01	1.01	8	< 10	< 10	< 0.5	4	1.28	< 0.5	17	72	489	1.55	< 10	< 1	0.04
386478	205 226	23	116.5	370	1.2	1.14	1.14	10	< 10	< 10	< 0.5	< 2	0.34	< 0.5	219	109	2160	11.00	< 10	< 1	0.14
386479	205 226	32	122.5	450	1.2	1.45	1.45	6	< 10	< 10	< 0.5	< 2	0.22	< 0.5	232	62	3400	11.35	< 10	< 1	0.26
386480	205 226	17	70.5	280	1.4	1.47	1.47	6	< 10	< 10	< 0.5	< 2	0.23	< 0.5	147	80	1315	5.92	< 10	< 1	0.12
386481	205 226	20	140.0	360	2.8	1.48	1.48	4	< 10	< 10	< 0.5	< 2	0.30	< 0.5	198	127	1945	8.67	< 10	< 1	0.11
386482	205 226	18	630	820	1.8	0.88	0.88	16	< 10	< 10	< 0.5	< 2	0.27	< 0.5	527	113	4130	>15.00	< 10	< 1	0.10
386483	205 226	15	295	660	2.2	1.13	1.13	14	< 10	< 10	< 0.5	< 2	0.14	< 0.5	409	101	5780	>15.00	< 10	< 1	0.03
386484	205 226	29	139.0	790	4.0	0.67	0.67	14	< 10	< 10	< 0.5	< 2	0.17	< 0.5	751	73	>10000	>15.00	< 10	< 1	0.03
386485	205 226	14	1790	1020	2.0	0.64	0.64	20	< 10	< 10	< 0.5	< 2	0.14	< 0.5	554	74	5160	>15.00	< 10	< 1	0.03
386486	205 226	27	84.5	1160	3.2	0.29	0.29	16	< 10	< 10	< 0.5	< 2	0.23	< 0.5	584	31	>10000	>15.00	< 10	< 1	0.01
386487	205 226	17	65.0	320	1.8	1.40	1.40	12	< 10	< 10	< 0.5	< 2	0.46	< 0.5	176	147	4020	9.55	< 10	< 1	0.15
386488	205 226	16	7.0	38	0.2	1.34	1.34	4	< 10	< 10	< 0.5	< 2	0.37	< 0.5	20	191	316	2.33	< 10	< 1	0.14
386489	205 226	9	3.0	7	< 0.2	1.43	1.43	6	< 10	< 10	< 0.5	< 2	0.40	< 0.5	19	206	109	1.87	< 10	< 1	0.54
386490	205 226	5	3.5	11	< 0.2	0.89	0.89	56	< 10	< 10	< 0.5	< 2	0.38	< 0.5	16	150	88	1.20	< 10	< 1	0.12
386491	205 226	9	5.0	38	0.2	1.29	1.29	6	< 10	< 10	< 0.5	< 2	0.52	< 0.5	20	200	368	2.32	< 10	< 1	0.44
386492	205 226	3	1.5	3	< 0.2	1.18	1.18	< 2	< 10	< 10	< 0.5	< 2	0.31	< 0.5	12	129	85	1.33	< 10	< 1	0.67
386493	205 226	1	2.5	2	< 0.2	1.37	1.37	< 2	< 10	< 10	< 0.5	< 2	0.37	< 0.5	13	170	21	1.42	< 10	< 1	0.70
625601	205 226	4	5.5	11	< 0.2	1.67	1.67	34	< 10	< 10	< 0.5	< 2	0.78	< 0.5	30	123	201	3.55	< 10	< 1	0.36
625602	205 226	26	138.0	1160	1.0	0.65	0.65	20	< 10	< 10	< 0.5	< 2	0.15	< 0.5	785	157	2430	>15.00	< 10	< 1	0.12
625603	205 226	180	135.0	510	1.4	0.86	0.86	14	< 10	< 10	< 0.5	< 2	0.26	< 0.5	247	242	2790	>15.00	< 10	< 1	0.31
625604	205 226	25	239	600	3.0	1.32	1.32	12	< 10	< 10	< 0.5	< 2	0.14	< 0.5	262	294	6930	11.20	< 10	< 1	0.17
625605	205 226	19	97.0	620	4.2	1.10	1.10	10	< 10	< 10	< 0.5	< 2	0.30	< 0.5	287	192	8510	12.00	< 10	< 1	0.10
625606	205 226	14	45.5	580	4.4	0.47	0.47	16	< 10	< 10	< 0.5	< 2	0.28	< 0.5	513	54	8680	>15.00	< 10	< 1	0.04
625607	205 226	760	80.5	420	36.6	0.63	0.63	14	< 10	< 10	< 0.5	< 2	0.16	< 0.5	329	67	>10000	>15.00	< 10	< 1	0.04
625608	205 226	46	676	560	6.0	0.80	0.80	8	< 10	< 10	< 0.5	< 2	0.21	< 0.5	371	67	>10000	14.50	< 10	< 1	0.04
625609	205 226	31	112.5	730	4.2	0.36	0.36	14	< 10	< 10	< 0.5	< 2	0.21	< 0.5	412	74	9730	>15.00	< 10	< 1	0.01
625610	205 226	6	15.5	185	1.8	1.10	1.10	6	< 10	< 10	< 0.5	< 2	0.68	< 0.5	112	40	3810	5.76	< 10	< 1	0.08
625611	205 226	430	89.0	770	2.4	0.56	0.56	12	< 10	< 10	< 0.5	< 2	0.25	< 0.5	648	70	7150	>15.00	< 10	< 1	0.04
625612	205 226	38	49.0	880	2.4	0.48	0.48	20	< 10	< 10	< 0.5	< 2	0.12	< 0.5	1310	88	6800	>15.00	< 10	< 1	0.04
625613	205 226	17	177.0	1220	2.2	0.79	0.79	16	< 10	< 10	< 0.5	< 2	0.09	< 0.5	484	56	6620	>15.00	< 10	< 1	0.01
625614	205 226	12	69.5	990	2.2	0.41	0.41	16	< 10	< 10	< 0.5	< 2	0.19	< 0.5	571	50	5340	>15.00	< 10	< 1	0.04
625615	205 226	7	45.0	140	1.2	1.15	1.15	4	< 10	< 10	< 0.5	< 2	0.47	< 0.5	77	70	3630	5.53	< 10	< 1	0.45
625616	205 226	9	67.5	200	0.8	0.89	0.89	6	< 10	< 10	< 0.5	< 2	0.36	< 0.5	253	60	2070	8.44	< 10	< 1	0.29
625617	205 226	6	45.0	100	1.0	0.92	0.92	2	< 10	< 10	< 0.5	< 2	0.70	< 0.5	55	77	1760	3.43	< 10	< 1	0.05
625618	205 226	39	50.0	130	0.8	1.20	1.20	2	< 10	< 10	< 0.5	< 2	0.72	< 0.5	100	96	1285	4.56	< 10	< 1	0.10
625619	205 226	21	63.5	200	0.8	1.18	1.18	< 2	< 10	< 10	< 0.5	< 2	0.74	< 0.5	79	127	1110	4.00	< 10	< 1	0.05
625620	205 226	23	27.5	85	0.6	1.08	1.08	< 2	< 10	< 10	< 0.5	< 2	0.47	< 0.5	34	153	766	1.62	< 10	< 1	0.07
625621	205 226	13	8.5	47	0.2	1.84	1.84	< 2	< 10	< 10	< 0.5	< 2	0.99	< 0.5	27	142	464	1.87	< 10	< 1	0.29
625622	205 226	24	32.0	200	1.0	1.63	1.63	< 2	< 10	< 10	< 0.5	< 2	0.41	< 0.5	59	237	1525	2.67	< 10	< 1	0.31
625623	205 226	3	7.0	39	< 0.2	1.42	1.42	< 2	< 10	< 10	< 0.5	< 2	0.59	< 0.5	16	147	205	1.37	< 10	< 1	0.35

CERTIFICATION:

Spia Owen

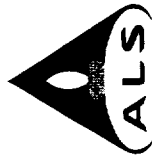


CERTIFICATE OF ANALYSIS A0222291

SAMPLE	PREP CODE	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
386477	205 226	< 10	0.51	525	< 1	0.10	78	330	2	0.11	< 2	5	10	0.10	< 10	< 10	44	< 10	22
386478	205 226	< 10	1.29	160	< 1	0.04	5200	330	2	5.73	< 2	2	3	0.05	< 10	< 10	33	< 10	40
386479	205 226	< 10	1.75	180	< 1	0.04	5370	220	2	5.88	< 2	1	3	0.04	< 10	< 10	23	< 10	36
386480	205 226	< 10	2.00	175	< 1	0.03	2800	240	14	3.18	< 2	1	3	0.03	< 10	< 10	36	< 10	28
386481	205 226	< 10	2.05	250	< 1	0.04	3340	160	24	5.14	< 2	2	5	0.03	< 10	< 10	39	< 10	32
386482	205 226	< 10	0.98	320	< 1	0.03	9820	110	8	9.53	< 2	1	1	0.03	< 10	< 10	27	< 10	14
386483	205 226	< 10	1.24	325	< 1	0.02	7460	150	4	7.77	< 2	1	2	0.01	< 10	< 10	20	< 10	16
386484	205 226	< 10	0.79	280	< 1	0.02	>10000	140	10	8.48	< 2	1	1	0.01	< 10	< 10	15	< 10	16
386485	205 226	< 10	0.68	265	< 1	0.02	>10000	120	2	7.45	< 2	1	< 1	0.01	< 10	< 10	16	< 10	2
386486	205 226	< 10	0.35	170	< 1	0.02	>10000	110	4	8.20	< 2	1	< 1	0.01	< 10	< 10	14	< 10	6
386487	205 226	< 10	1.50	370	< 1	0.04	4020	320	2	5.34	< 2	3	5	0.06	< 10	< 10	37	< 10	28
386488	205 226	< 10	1.51	195	< 1	0.05	293	330	< 2	0.29	< 2	1	7	0.07	< 10	< 10	31	< 10	44
386489	205 226	< 10	1.53	110	< 1	0.06	135	550	< 2	0.20	< 2	2	9	0.10	< 10	< 10	42	< 10	28
386490	205 226	< 10	0.97	105	< 1	0.04	129	260	< 2	0.05	< 2	< 1	8	0.04	< 10	< 10	12	< 10	14
386491	205 226	< 10	1.28	160	< 1	0.06	227	280	< 2	0.16	< 2	1	9	0.09	< 10	< 10	29	< 10	24
386492	205 226	< 10	1.01	75	< 1	0.08	80	410	< 2	0.01	< 2	1	10	0.10	< 10	< 10	32	< 10	24
386493	205 226	< 10	1.17	80	< 1	0.09	91	390	< 2	0.01	< 2	1	13	0.11	< 10	< 10	35	< 10	20
625601	205 226	< 10	0.99	525	< 1	0.06	119	390	< 2	0.52	< 2	7	< 1	0.18	< 10	< 10	101	< 10	66
625602	205 226	< 10	0.69	155	< 1	0.02	>10000	90	< 2	8.06	< 2	1	< 1	0.02	< 10	< 10	29	< 10	2
625603	205 226	< 10	1.02	220	< 1	0.03	5280	80	< 2	5.48	< 2	1	1	0.04	< 10	< 10	41	< 10	26
625604	205 226	< 10	1.71	165	< 1	0.02	5060	200	< 2	6.38	< 2	< 1	1	0.03	< 10	< 10	21	< 10	34
625605	205 226	< 10	1.20	195	< 1	0.04	5350	230	< 2	6.97	< 2	1	7	0.03	< 10	< 10	19	< 10	26
625606	205 226	< 10	0.37	180	< 1	0.04	9280	180	< 2	>10.00	< 2	1	4	0.03	< 10	< 10	15	< 10	10
625607	205 226	< 10	0.55	360	< 1	0.03	4130	160	6	>10.00	< 2	3	1	0.02	< 10	< 10	13	< 10	194
625608	205 226	< 10	0.80	305	< 1	0.03	5880	240	2	8.51	< 2	1	3	0.02	< 10	< 10	13	< 10	24
625609	205 226	< 10	0.27	195	< 1	0.04	9110	140	4	9.89	< 2	1	3	0.01	< 10	< 10	14	< 10	18
625610	205 226	< 10	0.57	315	< 1	0.13	2140	230	2	3.28	< 2	3	17	0.04	< 10	< 10	22	< 10	20
625611	205 226	< 10	0.40	270	< 1	0.05	9080	190	6	8.19	< 2	1	5	0.01	< 10	< 10	13	< 10	10
625612	205 226	< 10	0.47	285	< 1	0.02	>10000	140	6	9.66	< 2	< 1	< 1	0.02	< 10	< 10	17	< 10	6
625613	205 226	< 10	0.94	210	< 1	0.01	>10000	160	4	>10.00	< 2	< 1	< 1	0.01	< 10	< 10	13	< 10	16
625614	205 226	< 10	0.36	230	< 1	0.03	>10000	130	2	>10.00	< 2	1	< 1	0.01	< 10	< 10	15	< 10	2
625615	205 226	< 10	0.90	310	< 1	0.07	1335	550	< 2	2.18	< 2	5	6	0.09	< 10	< 10	74	< 10	30
625616	205 226	< 10	0.69	280	< 1	0.06	2740	510	< 2	4.43	< 2	4	4	0.07	< 10	< 10	62	< 10	24
625617	205 226	< 10	0.59	230	< 1	0.06	1150	310	2	1.60	< 2	2	6	0.05	< 10	< 10	20	< 10	20
625618	205 226	< 10	0.94	275	< 1	0.07	1530	360	< 2	2.17	< 2	4	7	0.11	< 10	< 10	44	< 10	36
625619	205 226	< 10	0.82	315	< 1	0.07	1475	310	< 2	1.85	< 2	4	7	0.09	< 10	< 10	46	< 10	26
625620	205 226	< 10	1.08	135	< 1	0.05	629	240	< 2	0.34	< 2	1	6	0.05	< 10	< 10	18	< 10	26
625621	205 226	< 10	1.01	160	< 1	0.09	374	540	< 2	0.35	< 2	1	48	0.08	< 10	< 10	34	< 10	24
625622	205 226	< 10	1.83	190	< 1	0.05	1245	270	< 2	0.56	< 2	2	9	0.09	< 10	< 10	30	< 10	36
625623	205 226	< 10	1.13	120	< 1	0.08	206	230	< 2	0.07	< 2	1	18	0.07	< 10	< 10	23	< 10	20

CERTIFICATION:

Spina Curran



ALS Chemex

ALS Canada Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

J: EAST WEST RESOURCE CORP.

402 - 905 W. PENDER ST.

VANCOUVER, BC

V6C 1L6

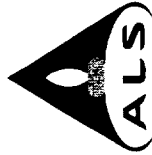
INVOICE NUMBER

I 0 2 2 2 4 2 1

BILLING INFORMATION	
Date:	26-AUG-2002
Project:	NORTON
P.O. No.:	
Account:	NMZ
Comments:	
Billing:	For analysis performed on Certificate A0222421
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
ALS CHEMEX 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	299 - Pulp; prepped on other workorder - ME-XRF06	0.00 32.00	32.00	32.00
Total Cost \$				32.00
Client Discount (25%) \$				-8.00
Net Cost \$				24.00
(Reg# R100938885) GST \$				1.68
TOTAL PAYABLE (CDN) \$				25.68

pd



ALS Chemex

Aurora Laboratory Services 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: EAST WEST RESOURCE CORP.
402 - 905 W.PENDER ST.
VANCOUVER, BC
V6C 1L6

A0222421

Comments: ATTN: BOB MIDDLETON

CERTIFICATE

A0222421

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON
P.O. #:

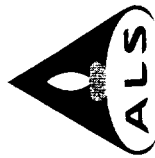
Samples submitted to our lab in Thunder Bay, ON
This report was printed on 26-AUG-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
299	1	Pulp; prepped on other workorder

ANALYTICAL PROCEDURES

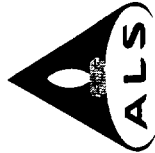
METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Al-XRF06	1	Al2O3 %: XRF	XRF	0.01	100.00
Ba-XRF06	1	BaO %: XRF	XRF	0.01	100.00
Ca-XRF06	1	CaO %: XRF	XRF	0.01	100.00
Cr-XRF06	1	Cr2O3 %: XRF	XRF	0.01	100.00
Fe-XRF06	1	Fe2O3 %: XRF	XRF	0.01	100.00
K-XRF06	1	K2O %: XRF	XRF	0.01	100.00
Mg-XRF06	1	MgO %: XRF	XRF	0.01	100.00
Mn-XRF06	1	MnO %: XRF	XRF	0.01	100.00
Na-XRF06	1	Na2O %: XRF	XRF	0.01	100.00
P-XRF06	1	P2O5 %: XRF	XRF	0.01	100.00
Si-XRF06	1	SiO2 %: XRF	XRF	0.01	100.00
Sr-XRF06	1	SrO %: XRF	XRF	0.01	100.00
Ti-XRF06	1	TiO2 %: XRF	XRF	0.01	100.00
LOI-XRF06	1	LOI %: XRF	XRF	0.01	100.00
OA-XRF06	1	Total %	CALCULATION	0.01	105.00



CERTIFICATE OF ANALYSIS A0222421

SAMPLE	PREP CODE	Al2O3	BaO	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	SrO	TiO2	LOI	TOTAL
		% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF
3876492	299 --	14.35	0.02	6.43	0.05	7.63	0.84	7.33	0.15	3.33	0.11	58.63	0.02	0.48	0.59	99.96

CERTIFICATION:



ALS Chemex

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

To: EAST WEST RESOURCE CORP.
402 - 905 W.PENDER ST.
VANCOUVER, BC
V6C 1L6

INVOICE NUMBER

I 0 2 2 3 0 0 6

BILLING INFORMATION

Date: 02-SEP-2002

Project: NORTON

P.O. No.:

Account: NIMZ

Comments:

Billing: For analysis performed on
Certificate A0223006

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

Please Remit Payments to:

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

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	212 - Overlimit pulp, to be found Cu-AA46 - Cu %: Conc. Nitric-HCl dig'n Ni-AA62 - Ni %: HClO4-HNO3-HF digestion	0.00 7.00 8.00	15.00	30.00
11	212 - Overlimit pulp, to be found Ni-AA62 - Ni %: HClO4-HNO3-HF digestion	0.00 8.00	8.00	88.00
4	212 - Overlimit pulp, to be found Cu-AA46 - Cu %: Conc. Nitric-HCl dig'n	0.00 7.00	7.00	28.00
Total Cost \$				146.00
Client Discount (25%) \$				-36.50
Net Cost \$				109.50
(Reg# R10093885) GST \$				7.67
TOTAL PAYABLE (CDN) \$				117.17



ALS Chemex

Aurora Laboratory Services 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: EAST WEST RESOURCE CORP.
402 - 905 W. PENDER ST.
VANCOUVER, BC
V6C 1L6

A0223006

Comments: ATTN: BOB MIDDLETON

CERTIFICATE

A0223006

(NMZ) - EAST WEST RESOURCE CORP.

Project: NORTON
P.O. #:

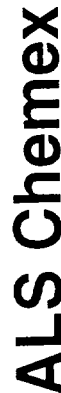
Samples submitted to our lab in Thunder Bay, ON
This report was printed on 02-SEP-2002.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
212	17	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Cu-AA46 Ni-AA62	6 13	Cu %: Conc. Nitric-HCl dig'n Ni %: HClO4-HNO3-HF digestion	AAS AAS	0.01 0.01	50.0 50.0



To: EAST WEST RESOURCE CORP.
402 - 905 W.PENDER ST.
VANCOUVER, BC
V6C 1L6

Project : NORTON
Comments: ATTN: BOB MIDDLETON

Page Number : 1
Total Pages : 1
Certificate Date: 02-SEP-2002
Invoice No. : 10223006
P.O. Number :
Account : NMZ

CERTIFICATE OF ANALYSIS

SAMPLE	PREP CODE	Cu %	Ni %
386484	212 --	1.10	1.18
386485	212 --	--	1.59
386486	212 --	1.08	1.63
625602	212 --	--	1.50
625607	212 --	7.26	--
625608	212 --	1.37	--
625612	212 --	--	1.38
625613	212 --	--	1.18
625614	212 --	--	1.46
625629	212 --	--	1.48
625655	212 --	--	1.12
625659	212 --	--	1.42
625660	212 --	--	1.45
625664	212 --	--	1.16
625671	212 --	1.95	--
625672	212 --	2.28	--
625673	212 --	--	1.27

CERTIFICATION:

Norton Lake Winter 2004 - Hole NL04-01		Collar L250E, 510N dip -72 degree South	
From (ft.)	To (ft.)	Rock type	Alteration, Mineralization & Structure
547.00	682.00	Basalt	Basalt medium green, local epidatization, pillow selviges cut by stringer calcite veins, silicification in fault zones with bleaching to grey cream colour 602 - 605' fault and silicification 612 - 613.5' fault breccia healed by silica 584.3 - 586.6' bands of chlorite and pyrite with quartz carbonite, may be interflows 574 - 574.3' silica and pyrite inter flow unit brown biotite alteration 1" bands start at 669' to 678' then becomes green basalt to contact at 682' @ 673', 2" band of pyroxenite with pyrrhotite, shearing and mylonitization from 673 - 678'
682.00	699.50	Main Sulphide Zone	Sulphide zone, first 3" are sheared laminated and epidotized then sulphide breccia with silica and pyroxenite clasts, local folding of actinolitized pyroxenite 682 - 682.3' tuff margin to massive sulphide 683 - 683.3' quartz vein 682 - 683.3 sample 97324 fg pyrrhotite 683.3 - 684.95' clast of altered pyroxenite (hornblende-actinolite) folded pieces 97330 684.95 - 685.65' altered gabbro mirror sulphide 685.65 - 688' semi massive sulphide (pyrrhotite and chalcopyrite) 688 - 691.3' cherty zone (albatite) creamy-white stringers of chalcopyrite. Massive sulphide 690-691' 691.3 - 694.6' sample 97334 694.6 - 698' sample 97335
699.50	710.00	Gabbro - diorite	sheared gabbro with pyrrhotite on slips (rare), gradient gabbro-diorite 718 - 719' quartz vein 728.5 - 730' aptite zone with red garnets or axinite fine grained white granite-aplite dikes occur in sheared with hornblende-biotite stretched streaks 0.5 cm long in white feldspar matrix may be a lenco gabbro now metamorphosed. Common to all holes that meat below the main sulphide zone
EOH (at 747.00 ft.)			

Norton Lake Sample Intervals NL-04-01

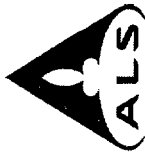
Rock Type	Sample #	Interval (ft.)		Length (ft.)	Notes
		From	To		
	97329	682.00	683.30	1.30	Au + ICP
	97330	683.30	684.95	1.65	Au + ICP
	97331	684.95	685.65	0.70	Au + ICP
	97332	685.65	688.00	2.35	Au + ICP
	97333	688.00	691.30	3.30	Au + ICP
	97334	691.30	694.60	3.30	Au + ICP
	97335	694.60	698.00	3.40	Au + ICP
	97336	698.00	698.25	0.25	Au + ICP
	97337	698.25	699.50	1.25	Au + ICP
	97338	699.50	701.50	2.00	Au + ICP
	97339	701.50	705.60	4.10	Au + ICP
	97340	705.60	706.00	0.40	Au + ICP
	97341	570.50	574.00	3.50	Au + ICP
	97342	574.00	574.30	0.30	Au + ICP
	97343	584.30	587.60	3.30	Au + ICP
	97344	598.00	601.30	3.30	Au + ICP
	97345	601.30	604.60	3.30	Au + ICP
	97346	611.00	613.60	2.60	Au + ICP
	97347	671.66	675.00	3.34	Au + ICP
	97348	675.00	678.00	3.00	Au + ICP

Norton Lake	January 2004	
--------------------	---------------------	--

Hole NL04-01 (dip -72 degrees S, Az. 0 degrees)
L250E, 510N

Box	Interval (from)	(to, ft)	Length (m)	Notes
1	0.00	24.00		
2	24.00	42.00		
3	42.00	60.00		
4	60.00	79.00		
5	79.00	97.00		
6	97.00	116.00		
7	116.00	135.00		
8	135.00	154.00		
9	154.00	172.00		
10	172.00	191.00		
11	191.00	210.00		
12	210.00	229.00		
13	229.00	248.00		
14	248.00	266.00		
15	266.00	285.00		
16	285.00	303.00		
17	303.00	322.00		
18	322.00	341.00		
19	341.00	359.00		
20	359.00	377.00		
21	377.00	396.00		
22	396.00	415.00		
23	415.00	433.00		
24	433.00	451.00		
25	451.00	471.00		
26	471.00	491.00		
27	491.00	509.00		
28	509.00	528.00		
29	528.00	547.00		
30	547.00	566.00		
31	566.00	584.00		
32	584.00	603.00		
33	603.00	619.00		
34	619.00	638.00		
35	638.00	657.00		
36	657.00	676.00		
37	676.00	694.00		
38	694.00	713.00		
39	713.00	732.00		
40	732.00	747.00		
E.O.H.	747.00			

dip on casing: NA
azimuth: NA
acid test: NA



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ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: CASCADIA INTERNATIONAL
1539-715 5TH AVE SW
CALGARY AB T2P 2X6

Page: 1
Date: 3-MAY-2004
Account: CAIN

CERTIFICATE TB04020214

Project: NL-04-1

P.O. No.:

This report is for 20 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 14-APR-2004.

The following have access to data associated with this certificate:

JIM EVASKEVICH

BOB MIDDLETON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
ME-XRF06	Whole Rock Package - XRF	XRF
OA-GRA06	LOI for ME-XRF06	WST-SIM

To: CASCADIA INTERNATIONAL
ATTN: BOB MIDDLETON

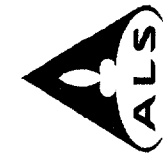
This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Project: NL-04-1

CERTIFICATE OF ANALYSIS TB04020214

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
97329		2.14	2.1	1.18	9	<10	<10	<0.5	4	0.59	<0.5	299	89	4840	21.6	<10
97330		1.07	2.0	1.34	6	<10	<10	<0.5	8	0.31	<0.5	375	103	2970	29.2	<10
97331		0.47	0.6	1.42	93	<10	10	<0.5	<2	0.37	<0.5	48	64	1285	4.77	<10
97332		0.62	1.1	1.50	<2	<10	<10	<0.5	9	0.19	<0.5	344	114	1765	30.0	<10
97333		2.36	1.6	0.98	49	<10	10	<0.5	6	0.58	<0.5	563	65	4150	28.1	<10
97334		1.77	3.3	1.97	71	<10	20	2.9	2	1.58	<0.5	215	65	8010	15.5	10
97335		2.61	1.1	0.87	15	<10	<10	<0.5	6	0.51	<0.5	287	62	2430	23.0	<10
97336		0.22	0.3	0.55	60	<10	<10	<0.5	<2	0.80	<0.5	48	18	976	3.48	<10
97337		0.89	0.7	1.22	7	<10	10	<0.5	3	0.35	<0.5	289	146	1380	18.8	<10
97338		0.84	0.2	1.08	50	<10	10	<0.5	<2	0.52	<0.5	31	162	347	2.31	<10
97339		0.30	0.8	0.49	7	<10	<10	<0.5	3	0.40	<0.5	479	46	1745	13.8	<10
97340		0.20	<0.2	2.02	739	<10	<10	<0.5	<2	0.34	<0.5	57	330	30	2.47	<10
97341		0.27	0.3	0.92	12	<10	50	<0.5	<2	1.44	<0.5	49	34	1090	2.88	<10
97342		0.28	1.4	0.45	7	<10	40	<0.5	3	0.61	<0.5	347	18	5660	9.00	<10
97343		1.82	0.3	1.32	<2	<10	60	<0.5	2	1.34	<0.5	64	67	582	6.08	<10
97344		1.54	<0.2	1.74	3	<10	<10	0.6	3	5.70	<0.5	63	237	283	5.17	10
97345		2.43	<0.2	2.45	4	<10	10	0.8	2	3.84	<0.5	62	288	163	6.20	10
97346		1.32	0.4	1.46	<2	<10	20	0.6	<2	8.69	<0.5	33	192	158	3.53	10
97347		1.86	0.2	1.86	2	<10	170	<0.5	<2	1.37	<0.5	25	86	423	3.88	10
97348		1.49	0.4	1.20	76	<10	110	0.5	<2	1.91	<0.5	44	85	672	2.75	<10



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212 Brooksbank Avenue
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To: CASCADIA INTERNATIONAL
1539-715 5TH AVE SW
CALGARY AB T2P 2X6

Page: 2 - B
Total # Pages: 2 (A - D)
Date: 3-MAY-2004
Account: CAIN

Project: NL-04-1

CERTIFICATE OF ANALYSIS TB04020214

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
97329		<1	0.04	10	0.91	563	1	0.04	6970	440	8	7.20	<2	4	6	0.10
97330		<1	0.02	<10	1.10	798	3	0.02	8930	110	9	8.01	<2	2	6	0.05
97331		<1	0.12	<10	1.36	926	<1	0.03	1230	130	3	1.18	<2	3	8	0.02
97332		<1	0.04	<10	1.29	934	2	0.01	8820	160	9	7.54	<2	3	3	0.04
97333		<1	0.06	<10	0.58	448	1	0.04	8820	320	9	9.54	<2	2	10	0.05
97334		1	0.11	30	1.32	655	2	0.08	4220	1440	6	5.38	<2	7	25	0.19
97335		<1	0.06	<10	0.48	419	1	0.04	8480	190	5	7.10	<2	3	8	0.04
97336		<1	0.02	<10	0.32	198	<1	0.01	1190	160	3	1.38	2	1	12	0.12
97337		<1	0.06	<10	1.17	326	1	0.03	6710	220	7	6.32	<2	4	4	0.09
97338		<1	0.04	10	1.27	203	1	0.06	501	380	2	0.64	<2	2	7	0.06
97339		<1	0.03	<10	0.44	154	1	0.05	5000	330	4	6.49	<2	2	4	0.03
97340		<1	0.02	10	2.62	208	<1	0.01	693	310	2	0.13	<2	1	2	0.08
97341		1	0.03	<10	0.43	668	<1	0.04	130	550	3	1.04	<2	3	11	0.08
97342		<1	0.03	<10	0.34	614	1	0.04	527	630	5	8.02	<2	3	5	0.04
97343		<1	0.08	<10	0.62	1020	1	0.11	114	560	4	2.87	<2	7	13	0.11
97344		<1	0.01	<10	1.12	807	<1	0.10	136	370	2	1.86	<2	22	13	0.19
97345		<1	0.05	<10	1.78	1035	1	0.05	147	380	3	0.82	<2	28	10	0.22
97346		<1	0.01	<10	1.03	1110	113	0.05	65	250	10	0.81	<2	20	31	0.14
97347		<1	0.57	10	0.80	643	2	0.13	148	750	<2	0.70	<2	10	16	0.27
97348		<1	0.21	<10	0.58	573	4	0.12	528	370	<2	0.87	<2	7	15	0.21

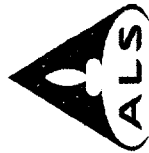


Project: NL-04-1

Page: 2 - C
Total # Pages: 2 (A - D)
Date: 3-MAY-2004
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CERTIFICATE OF ANALYSIS TB04020214

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Page: 2 - D
Total # Pages: 2 (A - D)
Date: 3-MAY-2004
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Project: NL-04-1

CERTIFICATE OF ANALYSIS TB04020214

Sample Description	Method Analyte Units LOR	PGM-ICP23 PGM-ICP23 PGM-ICP23									
		ME-XRF06 P205 %	ME-XRF06 SrO %	ME-XRF06 BaO %	ME-XRF06 LOI %	ME-XRF06 Total %	Au ppm	Pt ppm	Pd ppm		
97329							0.017	0.049	0.276		
97330							0.025	0.062	0.452		
97331		0.04	0.01	0.02	2.50	99.65	0.006	0.045	0.087		
97332							0.010	0.036	0.482		
97333							0.027	0.100	0.584		
97334							0.013	0.034	0.168		
97335							0.015	0.089	0.463		
97336					1.87	99.71	0.005	0.034	0.105		
97337		0.06	0.02	<0.01			0.003	0.021	0.166		
97338							0.004	0.011	0.044		
97339							0.012	0.016	0.311		
97340		0.08	<0.01	0.01	3.32	99.03	0.002	0.009	0.079		
97341							0.001	0.005	0.006		
97342							0.005	0.005	0.014		
97343							0.001	0.006	0.007		
97344							0.003	0.008	0.007		
97345							0.003	0.011	0.007		
97346							0.028	0.005	0.006		
97347							0.006	0.007	0.027		
97348							0.031	0.062	0.263		

Norton Lake Winter 2004 - Hole NL04-07			Collar L200E, 480N dip -72 degree South
From (ft.)	To (ft.)	Rock type	Alteration, Mineralization & Structure
0.00	17.00	Overburden	Casing
17.00	125.00	Basalt	pillow lavas, local chlorite and quartz carb veinlets
125.00	279.00	Basalt	Basalt medium to dark green cut by numerous narrow qtz. carb veinlets occasional pillow margin has po. 256 - 279' shearing with bleaching (carbonate) and brown biotite banding starts @ 256 shears and bands @ 75 - 80 degrees to CA 272 - 272.75 grey silicious exhalite like in other holes conformable with bonding. Silica with black spurs of hb and chlorite and biotite and minor sulphides.
279.00	311.00		Main Sulphide Zone Pyrrhotite-Chalcopyrite in pyroxenite bands, some siliceous zones and quartz veins with remobilized chalcopyrite 279 - 280.65' silica altered basalt with pyrrhotite along bleached zones and fractures may be altered basalt next to main zone below, 97643 280.65 - 284' Bands of 60% pyrrhotite 6" wide, quartz vein 5" with chlorite on margin walls, remobilized chalcopyrite and fine stringers of chalco, 97644 284 - 287' pyroxenite bands with pyrrhotite, folding of pyroxenite, chalco + pyrrhotite remob. Into clots 287 - 290.3' mainly silica or feldspar (alkite) zone and hornblende, massive homels + fractures filled with pyrrhotite, 25 - 35% po, 97646 290.3 - 294' coarse pyroxenite, bands of pyrrhotite 6" wide and fg grey siliceous? Unit with chalcopyrite stringer, 97647 294 - 297' pyroxenite bands and grey silica zones and altered gabbro @ 294', 40% po, 97648 297 - 298.65' grey silicious and pyrrhotite in fractures, 97648 298.65 - 302' pyroxenite shears @ 80 degrees to CA, local folding, dissem po., 97650 302 - 305' fg-mg pyroxenite, low dissem po, stringers po+cpy., 9751 305 - 308.75 mottled - chlorite ground mass broken bands of grey silica, 97652 308.75 - 311' grey fg siliceous + pyrrhotite dissem and stringer, sharp contact 75 degrees with gabbro-pyroxenite below (may be a large clast)
311.00	316.00	Meta Gabbro	Meta Gabbro-pyroxenite (footwall) (with pyroxenite zones) sheared with silica and chlorite bands and stringers of pyrrhotite, may be granitized silicified-hybrid form of gabbro pyroxenite 75 degrees to CA 311 - 311.75' pyroxenite-gabbro 311.75 - 315.25 mix of sheard basalt-gabbro silica bands, minor po, py looks granitized white feldspar-silica+chlorite in vasive alteration, shears 75-80 degrees to CA 315.25 - 316' sulphides 50 - 60% in vuggy dark chlorite, mass chalco. + pyrrhotite vuggy in sharp contact with sheared gabbro bellow, shear @ 75 degrees to CA
316.00	327.00		Sheared Gabbro grades into less sheared below, shears 75 degrees to CA
327.00	335.00	Gabbro	
EOH (at 335.00 ft.)			

Norton Lake Sample Intervals NL-04-07

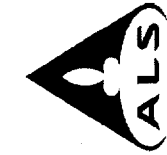
Rock Type	Sample #	Interval (ft.)		Length (ft.)	Notes
		From	To		
	97643	279.00	280.65		
	97644	280.65	284.00		
	97645	284.00	287.00		
	97646	287.00	290.30		
	97647	290.30	294.00		
	97648	294.00	297.00		
	97649	297.00	298.65		
	97650	298.65	302.00		
	97651	302.00	305.00		
	97652	305.00	308.75		

Norton Lake	January 2004	
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Hole NL04-07
L250E, 510N

Box	from (ft.)	to (ft.)	Length (ft.)	Notes
1	12.00	32.50		
2	32.50	50.00		
3	50.00	69.00		
4	69.00	88.00		
5	88.00	106.50		
6	106.50	125.00		
7	125.00	144.50		
8	144.50	163.50		
9	163.50	182.00		
10	182.00	201.00		
11	201.00	219.50		
12	219.50	238.00		
13	238.00	257.00		
14	257.00	275.50		
15	275.50	294.00		
16	294.00	313.00		
17	313.00	331.00		
18	331.00	335.00		
E.O.H.	335.00			

dip on casing: NA
azimuth: NA
acid test: NA



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212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: CASCADIA INTERNATIONAL
1539-715 5TH AVE SW
CALGARY AB T2P 2X6

Page: 1
Date: 26-APR-2004
Account: CAIN

CERTIFICATE TB04020753

Project: Norton NR 04-7

P.O. No.:

This report is for 14 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 19-APR-2004.

The following have access to data associated with this certificate:

JIM EVASKEVICH

BOB MIDDLETON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rod w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Ni-AA46	Ore grade Ni - aqua regia/AA	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
ME-XRF06	Whole Rock Package - XRF	XRF
OA-GRA06	LOI for ME-XRF06	WST-SIM

To: CASCADIA INTERNATIONAL
ATTN: BOB MIDDLETON

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

To: CASCADIA INTERNATIONAL
1539-715 5TH AVE SW
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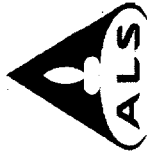
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218



Project: Norton NR 04-7

CERTIFICATE OF ANALYSIS TB04020753

Sample Description	Method Analyte Units LOR	WEL-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
97643		0.95	0.5	1.01	6	<10	40	0.7	<2	0.84	<0.5	154	77	885	9.15	<10
97644		1.89	3.9	1.08	7	<10	10	<0.5	<2	0.44	<0.5	205	112	7900	12.00	<10
97645		2.16	3.2	1.19	6	<10	20	<0.5	<2	0.51	<0.5	413	156	6280	23.1	<10
97646		1.96	1.1	1.10	2	<10	<10	<0.5	<2	0.39	<0.5	273	80	1405	22.4	<10
97647		2.34	2.7	0.73	6	<10	10	<0.5	<2	0.49	<0.5	308	62	5630	21.9	<10
97648		2.05	2.6	1.34	8	<10	10	<0.5	<2	0.94	<0.5	234	49	5250	18.0	<10
97649		0.91	2.0	3.31	<2	<10	20	<0.5	<2	1.94	<0.5	154	75	4940	11.75	<10
97650		2.25	3.4	0.84	5	<10	<10	<0.5	<2	0.47	<0.5	361	57	8910	27.3	<10
97651		2.21	0.8	0.99	3	<10	20	<0.5	2	0.46	<0.5	93	91	1970	5.11	<10
97652		2.21	1.7	0.25	6	<10	10	<0.5	<2	0.42	<0.5	140	8	3870	9.12	<10
97653		1.19	0.7	1.90	<2	10	10	<0.5	2	1.44	<0.5	70	35	1190	5.75	<10
97654		0.44	<0.2	1.08	3	<10	20	<0.5	<2	0.32	<0.5	32	194	364	2.40	<10
97655		2.22	0.4	1.83	6	<10	50	<0.5	<2	1.02	<0.5	61	138	771	4.26	<10
97656		0.44	10.6	0.65	<2	<10	10	<0.5	<2	0.21	<0.5	374	56	>10000	24.6	<10



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Page: 2 - B
Total # Pages: 2 (A - D)
Date: 26-APR-2004
Account: CAIN

Project: Norton NR 04-7

CERTIFICATE OF ANALYSIS TB04020753

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Ti %
97643		<1	0.11	<10	0.78	327	1	0.09	2850	220	<2	4.42	<2	6	10	0.15
97644		<1	0.05	<10	1.16	319	<1	0.03	3370	150	4	5.32	<2	3	3	0.08
97645		1	0.13	<10	1.21	396	<1	0.05	6160	160	7	8.07	<2	3	4	0.07
97646		<1	0.05	<10	0.70	296	1	0.05	6730	170	<2	6.86	3	2	6	0.03
97647		<1	0.06	<10	0.55	298	<1	0.06	6690	240	8	7.02	<2	2	8	0.04
97648		<1	0.04	10	0.36	234	<1	0.11	5370	260	6	5.95	<2	2	52	0.03
97649		1	0.12	<10	0.58	222	1	0.34	3520	240	9	4.88	<2	2	56	0.04
97650		<1	0.03	<10	0.38	190	<1	0.08	8320	140	10	6.84	<2	1	6	0.02
97651		1	0.09	10	1.00	375	<1	0.06	1440	300	<2	2.43	<2	2	5	0.04
97652		<1	0.01	10	0.27	971	1	0.02	2820	200	<2	4.21	<2	1	7	0.02
97653		1	0.06	<10	0.40	269	<1	0.16	754	260	2	3.06	<2	4	39	0.10
97654		1	0.24	10	1.44	223	<1	0.04	522	360	<2	0.71	<2	1	3	0.06
97655		1	0.34	<10	1.14	214	<1	0.11	922	290	3	1.98	<2	3	25	0.10
97656		<1	0.09	<10	1.00	119	<1	0.01	>10000	260	151	>10.0	<2	2	6	0.03



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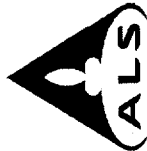
**To: CASCADIA INTERNATIONAL
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Page: 2 - C
Total # Pages: 2 (A - D)
Date: 26-APR-2004
Account: CAIN

Project: Norton NR 04-7

CERTIFICATE OF ANALYSIS **TB04020753**

[illegible]



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Page: 2 - D
Total # Pages: 2 (A - D)
Date: 26-APR-2004
Account: CAIN

Project: Norton NR 04-7

CERTIFICATE OF ANALYSIS TB04020753

Sample Description	Method Analyte Units LOR	ME-XRF06 TiO2 %	ME-XRF06 MnO %	ME-XRF06 P2O5 %	ME-XRF06 SiO %	ME-XRF06 BaO %	ME-XRF06 LOI %	ME-XRF06 Total %	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm
97643		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.011	0.138	0.324
97644									0.046	0.074	0.252
97645									0.025	0.054	0.287
97646									0.007	0.026	0.456
97647									0.013	0.050	0.495
97648									0.035	0.024	0.417
97649									0.010	0.019	0.198
97650									0.040	0.043	0.551
97651									0.011	0.023	0.085
97652									0.010	<0.005	0.128
97653									0.012	0.014	0.062
97654	0.47		0.41	0.09	0.01	0.01	1.90	99.98	0.002	0.006	0.055
97655									0.015	0.019	0.094
97656									0.018	0.126	0.967

0 3.21 **OVERBURDEN**

3.21 72.60 **MAFIC VOLCANICS with SEDIMENTARY INTERBEDS**

Lower contact is gradational. Unit consists of layers of mafic to intermediate volcanics (dark grey to light greenish-grey) with sedimentary layers. Volcanics can be massive, contain pillow margins and rims or contain varioles. Core angles, 45° at 34m and 59m.

36.83-43.65m-gneiss, deformed. Irregular contact with deformed biotite gneiss (biotite, tremolite/actinolite, quartz), contains light grey/tan layers of siliceous material, potentially chert/chyolite(?). Siliceous layers contain very fine grained sulphides.
49.32-50.10m-granite,

ALTERATION: Chloritization.

MINERALIZATION: Rare specks to blebs of sulphides concentrated at pillow margins.

73.60 95.75 **PYROXENITE**

Upper contact chilled and fine grained, grain size quickly changes to coarse grained (<4-5mm crystals), lower contact is chilled with a sharp contact. Unit is black to dark grey in colour. Biotite is present through the unit along with areas of feldspar(?) crystals localized around fractures and veins but do occur as small isolated patches and zones that appear gabbroic in appearance. Quartz/carbonate veinlets crosscut the unit.

75.31-77.37m-xenolith of volcanic and sedimentary rocks. Boundaries are partly assimilated. Xenolith contains disseminated sulphides.

77.55-77.90m-xenolith of sedimentary rock with last ~10 cm networked by quartz/carbonate veins.

92.90-93.30m-xenolith, gradational contacts, sulphides present.

93.30-95.75m-numerous small areas of fully/near fully assimilated xenoliths characterized by changes in mineral composition, foliation and the presence of sulphides.

ALTERATION: Little chloritization, black chlorite is present along slip planes.

MINERALIZATION: Patches of disseminated to blebs of sulphides associated with the xenoliths

95.75 100.24 **MAFIC VOLCANIC**

Upper and lower contacts are sharp. Unit is grey in colour with numerous quartz/carbonate veinlets crosscutting it. Some areas of quartz veining represent pillow margins/rims.

ALTERATION: Silicification.

MINERALIZATION: Trace sulphides along pillow margins.

100.24 102.97 **PYROXENITE/GABBRO**

Upper and lower contacts chilled. Unit is dark grey to black but grades to more feldspar rich (and lighter colour) towards centre of the unit. In addition there are numerous patches of assimilated country rock (<7 cm in size) characterized by gradational boundaries and being fine grained. Unit may represent a conataimentated phase of the above pyroxenite.

ALTERATION: Assimilation of volcanic.

MINERALIZATION: Rare sulphide specks along crosscutting veinlets and fractures.

102.97 310.46 **MAFIC VOLCANICS with SEDIMENTARY INERBEDS**

As above with the addition of garnet rich sedimentary units. Amygdual mafic volcanics are also more common. Large (5-6m) volcanic units become common from ~240m to 297m after which sedimentary rocks (silicified, sheared) dominate. Core angle of 50° to core axis at 110m

225.9-227.3m-pyroxenite/gabbro, difficult to determine core is badly broken and rubble

297.50-297.90m-garnet rich and fine grained sulphides in sedimentary rocks

303.90m-thin (5cm) crystal tuff

305.75-307.40m-ash-lappilli tuff layer, gradational from silicified sediments above, sharp lower contact
307.40-307.80m-silicified crystal tuff, grey in colour

307.80-310.46m-siliceous sediments, baked. Dark grey to black in colour with rare quartz/feldspar phenocryst/porphyroblast present

ALTERATION: Carbonate bleaching patches occur. Silicified zones occur with bottom of unit (~297m) highly silicified.

MINERALIZATION: Blebs of sulphides sporadically occur, concentrated in the pillow margins. Sulphide content increases as the end of the unit is approached, very fine disseminated sulphides begin at 309.60m and increase in size to fine disseminated sulphides at 310.0m.

310.46 311.74 **PYROXENITE, SHEARED & MINERALIZED**

Unit begins with 4cm of highly altered (baked or chilled?) pyroxenite against a partly assimilated milky white quartz vein (310.50-310.65m) containing chalcopyrite. Lower contact is fairly sharp and distinctive, made on the basis of mineralization. Pyroxenite is black in colour with a moderate amount of deformation (foliation dominantly 40° to core axis).

310.81-311.10m-xenolith of siliceous sedimentary rock, contains sulphides

ALTERATION: None present.

MINERALIZATION: Sulphide veinlets and blebs to disseminated sulphides (pyrrhotite, chalcopyrite, pyrite).

311.74 313.00 **MASSIVE SULPHIDES**

Massive, layered or stratified sulphides with thin layers of mafic material (pyroxenite?) and small pyroxenite clasts. Unit contacts are sharp. Lineation (bedding?) at 45° to core axis. Beginning of unit is mildly deformed and distorted.

ALTERATION: None visible:

MINERALIZATION: Massive sulphides (80-90% by volume), pyrrhotite, pyrite, chalcopyrite, pentlandite.

313.00 323.28 **PYROXENITE BRECCIA with SEMI-MASSIVE to MASSIVE SULPHIDES**

Sharp upper contact and gradational lower contact. Unit is black in colour (crystals 1-2mm in size). The pyroxenite is the dominate fragments within the breccia with the addition of fragments of siliceous material, quartz (milky white and as potential chert) and gabbro are present. Areas of the unit are a light grey-green colour.

ALTERATION: A bleaching of the core to a light grey-green (potentially minor serpentinization).

MINERALIZATION: Disseminated to semi-massive/massive sulphides (pyrrhotite>chalcopyrite, pyrite, pentlandite) along with chalcopyrite veinlets that can cross cut foliation and fragments.

323.28 324.76 **PYROXENITE/VOLCANIC/SEDIMENTARY ROCK MIXTURE**

Unit consists of a mixture of partly assimilated pyroxenite, siliceous sediments (crystal tuff) and volcanic rocks that vary in colour from black to light grey. Unit is banded with gradational upper contacts and a deformed lower contact.

ALTERATION: None visible.

MINERALIZATION: Disseminated to veinlets of sulphides, some veinlets crosscut lineation.

324.76 325.59 **VOLCANIC ROCK, ALTERED**

Unit is dark grey to black in colour with a gradational upper contact and a sharp lower contact. Unit is composed of fine grained dark volcanics with potential pillow margins defined by felsic concentrations.

ALTERATION: Unit is baked.

MINERALIZATION: Disseminated sulphides.

325.59 325.83 **PYROXENITE**

Unit is dark grey in colour with a slight green tint and has sharp upper and lower contacts. Lineated at 50° to core axis. Black chlorite can be found along fractures and in shear planes.

ALTERATION: None visible.

MINERALIZATION: Disseminated to sulphide veinlets.

325.83 326.37 **VOLCANIC ROCK, ALTERED**

As above with the addition of more quartz rich areas indicating potential sedimentary beds. Black chlorite along fractures.

ALTERATION: Black chlorite, chloritization, bleaching.

MINERALIZATION: Disseminated sulphides.

326.37 346.26 **PYROXENITE, ALTERED**

Light grey-greenish colour. Unit is sheared/foliated at 55-60° to core axis with black chlorite present along the planes and fractures, and contains pyroxene crystals 1-2mm in size. Numerous xenoliths of pristine to partly assimilated volcanics and sediments are present (330.60-330.72m; 330.81-330.91m; 331.63-331.68m; 332.53-332.72m). Quartz veins of various size are common. The unit becomes darker in colour at ~335-339.5m. Gabbroic xenoliths also can be found (338.75-338.80m; 338.86-338.93m; 339m).

ALTERATION: Chloritization is present along with contamination from partly assimilated xenoliths.

MINERALIZATION: Disseminated and veinlets of sulphides decreasing in abundance to ~341m. Blebs of sulphides are usually associated around xenoliths. Disseminated sulphides still occur sporadically after 341m.

346.26 348.02 **VOLCANIC ROCK, ALTERED**

Severely altered/baked volcanics with a gradational upper contact. Unit is grey to greenish grey in colour with areas having a slightly pink tint. Unit is strongly deformed.

ALTERATION: Yes, chloritization.

MINERALIZATION: None visible.

348.02 349.06 **GABBRO**

Fine to medium grained, grey in colour with a low felsic content. Unit is altered and the lower contact is brecciated and deformed.

ALTERATION: Chloritized (?), sauseritization.

MINERALIZATION: None visible.

349.06 357.45 **VOLCANIC ROCK with SEDIMENTARY INTERBEDS and GABBROIC INTRUSIONS**

Unit is composed of partly digested volcanic layers and sedimentary layers with thin gabbroic interfingers that randomly inject the layers. The contacts are irregular and often have some degree of assimilation present. Garnets are locally abundant.

ALTERATION: Unit is to strongly deformed and baked to determine alteration.

MINERALIZATION: Patches of disseminated to blebs of sulphides.

357.45 363.40 **GABBRO/DIORITE**

Unit is fine grained and pale grey to grey in colour. Upper contact is gradational and has irregular quartz veins, silicification and rare porphyroblasts to ~359m. Unit is foliated at 70-75° to core axis.

ALTERATION: Silicification near upper contact.

MINERALIZATION: None visible.

END OF HOLE



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To: CASCADIA INTERNATIONAL RESOURCES INC.
1530-715 5TH AVE SW
CALGARY AB T2P 2X6

Page: 1
Finalized Date: 8-APR-2005
Account: CAIN

CERTIFICATE TB05022507	
Project: NL05-12	
P.O. No.:	
This report is for 77 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 24-MAR-2005.	
The following have access to data associated with this certificate:	
JIM EVASKEVICH	BOB MIDDLETON

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
ME-MS81	38 element fusion ICP-MS	ICP-MS
ME-XRF06	Whole Rock Package - XRF	XRF
OA-GRA06	LOI for ME-XRF06	WST-SIM
Ni-AA46	Ore grade Ni - aqua regia/AA	AAS
OA-GRA08	Specific Gravity - Bulk Sample	WST-SEQ
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: CASCADIA INTERNATIONAL RESOURCES INC.
ATTN: BOB MIDDLETON
1158 A RUSSELL ST
THUNDER BAY ON P7B 5N2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



Page: 2 - A
Total # Pages: 3 (A - G)
Finalized Date: 8-APR-2005
Account: CAIN

Project: NL05-12

TB05022507

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Page: 2 - B
Total # Pages: 3 (A - G)
Finalized Date: 8-APR-2005
Account: CAIN

Project: NL05-12

TB05022507

Sample Description	Method Analyte Units LOR	ME-ICP41															
		Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	ME-ICP41 S %	
152594		64	90	2.72	10	<1	1.06	20	1.54	512	1	0.07	59	630	3	0.09	
152595		58	8810	12.50	<10	<1	0.33	10	0.62	467	<1	0.08	5720	430	4	5.17	
152596		90	7750	13.25	<10	<1	0.76	10	1.31	1250	<1	0.05	6190	540	6	4.63	
152597		<1	>10000	40.3	<10	<1	0.01	<10	0.43	537	1	0.01	>10000	100	24	7.37	
152598		36	2300	24.7	<10	<1	0.07	10	0.47	1100	<1	0.03	8780	190	12	5.62	
152599		71	>10000	23.6	<10	<1	0.38	<10	1.32	787	1	0.05	>10000	250	15	5.91	
152600		47	3510	14.6	<10	<1	0.02	<10	0.61	445	<1	0.06	7500	190	9	4.90	
152601		17	5940	6.41	<10	<1	0.03	<10	0.55	302	<1	0.04	2990	300	<2	2.72	
152602		35	>10000	6.66	<10	<1	0.06	10	0.88	421	<1	0.04	2760	270	<2	2.66	
152603		105	>10000	10.90	<10	<1	0.01	<10	1.28	394	<1	0.02	4750	260	3	4.59	
152604		62	>10000	13.70	<10	<1	0.08	<10	0.73	423	<1	0.06	6450	210	8	5.45	
152605		45	2890	29.9	<10	<1	0.03	<10	0.30	234	<1	0.03	>10000	130	16	8.23	
152606		33	4210	31.9	<10	<1	0.04	<10	0.28	210	<1	0.03	>10000	110	19	7.54	
152607		51	5740	27.9	<10	<1	0.03	<10	0.63	364	1	0.03	>10000	150	13	7.44	
152608		99	1805	4.48	<10	<1	0.09	10	1.03	176	<1	0.08	2130	310	3	2.01	
152609		55	1260	2.01	<10	<1	0.04	10	0.66	192	<1	0.12	1080	340	<2	0.77	
152610		59	1125	1.79	<10	<1	0.05	<10	0.54	154	<1	0.09	1220	350	<2	0.71	
152611		125	1740	2.00	<10	<1	0.05	10	1.18	171	<1	0.06	1295	430	2	0.53	
152612		91	1050	1.46	<10	<1	0.07	10	0.90	148	<1	0.08	711	390	<2	0.32	
152613		103	1740	3.54	<10	1	0.20	10	1.14	225	<1	0.07	2010	430	<2	1.31	
152614		163	2640	3.12	<10	1	0.20	<10	1.48	192	<1	0.06	2040	260	4	1.06	
152615		108	1020	3.09	<10	<1	0.12	10	1.03	182	<1	0.10	1680	290	4	1.87	
152616		90	347	1.10	<10	<1	0.09	10	0.86	135	<1	0.09	250	250	<2	0.16	
152702																	
152703																	
152704																	
152705																	
152706																	
152707																	
152708																	
152709																	
152594A																	
152595A																	
152596A																	
152597A																	
152598A																	
152599A																	
152600A																	
152601A																	
152602A																	



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To: CASCADIA INTERNATIONAL RESOURCES INC.
1530-715 5TH AVE SW
CALGARY AB T2P 2X6

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CERTIFICATE OF ANALYSIS TB05022507

Sample Description	Method Analyte Units LOR	ME-XRF06 BaO %	ME-XRF06 LOI %	ME-XRF06 Total %	Ni-AA46 Ni %
152594					
152595					
152596					
152597					
152598					2.02
152599					1.17
152600					
152601					
152602					
152603					
152604					
152605					1.65
152606					1.75
152607					1.48
152608					
152609					
152610					
152611					
152612					
152613					
152614					
152615					
152616					
152702		0.03	1.39	99.78	
152703		<0.01	0.93	99.59	
152704		<0.01	3.53	100.40	
152705		0.07	0.99	99.43	
152706		0.01	1.54	100.00	
152707		0.03	3.41	98.66	
152708		0.01	1.54	99.70	
152709		0.01	1.88	99.69	
152594A					
152595A					
152596A					
152597A					
152598A					
152599A					
152600A					
152601A					
152602A					



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TB05022507

Sample Description	Method Analyte Units LOR	ME-ICP41																ME-MS81			
		Sb ppm 2	Sc ppm 1	Sr ppm 1	Ti % 0.01	Ti ppm 10	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu-AA46 % 0.01	Ag ppm 1	Ba ppm 0.5	Ce ppm 0.5	Co ppm 0.5	Cr ppm 10				
152603A																					
152604A																					
152605A																					
152606A																					
152607A																					
152608A																					
152609A																					
152610A																					
152611A																					
152612A																					
152613A																					
152614A																					
152615A																					
152616A																					
152594B																					
152595B																					
152596B																					
152597B																					
152598B																					
152599B																					
152600B																					
152601B																					
152602B																					
152603B																					
152604B																					
152605B																					
152606B																					
152607B																					
152608B																					
152609B																					
152610B																					
152611B																					
152612B																					
152613B																					
152614B																					
152615B																					
152616B																					



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CERTIFICATE OF ANALYSIS **TB05022507**

Sample Description	Method Analyte Units LOR	ME-XRF06														
		ME-MS81 Yb ppm 0.1	ME-MS81 Zn ppm 5	ME-MS81 Zr ppm 0.5	ME-XRF06 SiO2 %	ME-XRF06 Al2O3 %	ME-XRF06 Fe2O3 %	ME-XRF06 CaO %	ME-XRF06 MgO %	ME-XRF06 Na2O %	ME-XRF06 K2O %	ME-XRF06 Cr2O3 %	ME-XRF06 TiO2 %	ME-XRF06 MnO %	ME-XRF06 P2O5 %	ME-XRF06 SiO %
152603A																
152604A																
152605A																
152606A																
152607A																
152608A																
152609A																
152610A																
152611A																
152612A																
152613A																
152614A																
152615A																
152616A																
152594B																
152595B																
152596B																
152597B																
152598B																
152599B																
152600B																
152601B																
152602B																
152603B																
152604B																
152605B																
152606B																
152607B																
152608B																
152609B																
152610B																
152611B																
152612B																
152613B																
152614B																
152615B																
152616B																



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To: CASCADIA INTERNATIONAL RESOURCES INC.
1530-715 5TH AVE SW
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Finalized Date: 8-APR-2005
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CERTIFICATE OF ANALYSIS TB05022507

Sample Description	Method Analyte Units LOR	ME-XRF06 BaO %	ME-XRF06 LOI %	ME-XRF06 Total %	Ni-AA46 Ni %
152603A		0.01	0.01	0.01	0.01
152604A					
152605A					
152606A					
152607A					
152608A					
152609A					
152610A					
152611A					
152612A					
152613A					
152614A					
152615A					
152616A					
152594B					
152595B					
152596B					
152597B					
152598B					
152599B					
152600B					
152601B					
152602B					
152603B					
152604B					
152605B					
152606B					
152607B					
152608B					
152609B					
152610B					
152611B					
152612B					
152613B					
152614B					
152615B					
152616B					

0 3.0 **OVERBURDEN**

3.0 248.40 **MAFIC VOLCANICS with SEDIMENTARY INTERBEDS**

Unit consists of layers of mafic to intermediate volcanics (dark grey to light greenish-grey) with sedimentary layers. Volcanics can be massive, contain pillow margins and rims, varioles or amygdales and range from 0.2 m to >1.5 m in size. Areas of bleaching occur within the volcanics as do areas of silicification, often associated with sporadic, crosscutting quartz veinlets. Sedimentary units vary in size from 1 cm to 120 cm. Sedimentary units can be severely altered (common in the thin units) and occasionally they range into the upper greenschist-lower amphibolite facies (amphiboles, tremolite/actinolite and garnet are common). Rare beds of ash to lapilli tuffs can be found. Irregular granite dikes 5-50 cm in thickness cross cut the core and vary from pink (coarse grained feldspar, quartz and muscovite) to white (fine to medium grained dominantly quartz).
Core angles, 10° at 76m, 45° at 87m, 46° at 146m.

3.0-30m-upper greenschist to amphibolite facies metasediments

101.60-102.25m-Oxide iron formation with sulphides. Massive magnetite with garnet and disseminated stringer sulphides (fractures).

102.25-102.64m-lapilli tuff

102.64-102.85m-oxide iron formation (as above)

157.59-157.75m-oxide iron formation with sulphides, magnetite and chert layers, chert contains disseminated sulphides with rare garnets; sulphides also are found infilling fractures within the magnetite layers

209.62-210.61m-massive to semi-massive sulphides with magnetite and garnets

213.15m-first appearances of crystal tuff (whitish, siliceous bands or lenses dominated by small round to euhedral crystals, likely feldspar)

225.46-226.02m-lapilli tuff

231.10m-start of siliceous sediments with crystal tuffs

233.88-241.26m-crystal tuffs, beds, lenses and individual patches of crystals within a dark grey to black layered rock, disseminated sulphides, dark rock is magnetic (fine grained magnetite or pyrrhotite), may be a fragmental or sediment debris flow, layers deform around the lenses of crystal tuff. Upper and lower contacts are abrupt.

245.7-248.40m-lapilli tuff and siliceous sediments

ALTERATION: Chloritization, bleaching of the volcanics and silicification

MINERALIZATION: Blebs and disseminated sulphides, often found in association with edges of volcanic flows in addition to massive to semi-massive sulphides at 209m.

248.40 265.52 **PYROXENITE BRECCIA with SEMI-MASSIVE to MASSIVE SULPHIDES**

Sharp, distinct upper contact while lower contact is made on the basis of mineralization and is obscured by a pink granite. Unit is a series of semi-massive sulphide breccia consisting of a matrix (60-90% sulphide) with fragments of pyroxenite, gabbro and siliceous material and sections of disseminated to veinlets of sulphides (5-50% sulphides) within pyroxenite (fine to medium grained, grey green in colour) and gabbro.

250.06-250.47m-layered sulphides

263.53m-from here on sulphides become less abundant

263.54-263.76m-medium grained pink granite with sharp contacts

263.76-264.63m-sheared gabbro or altered pyroxenite with sulphide veinlets and small xenoliths of mafic volcanics, plagioclase is present throughout unit.

264.73-265.52m-medium to coarse grained pink granite with sharp contacts.

ALTERATION: None visible.

MINERALIZATION: Disseminated to semi-massive/massive sulphides varying from 100% to 5% over short intervals (chalcopyrite highly variable in occurrence).

265.52 305.00 **PYROXENITE, ALTERED and GABBRO with MAFIC VOLCANIC**

Unit is a combination of pyroxenites and gabbros with mafic volcanic xenoliths. Pyroxenite is medium to fine grained, dark grey to green grey in colour. The gabbro is fine to medium grained with variable plagioclase/feldspar contents and is grey to whitish grey in colour. Internal contacts are sharp. Core angles 45° at 268m, 26° at 277m.

294-305m-dominated by altered pyroxenite, numerous white granite veins

288.7-290.9m-white granite with 23cm of bull quartz

ALTERATION: Talc, tremolite/actinolite and black chlorite occur.

MINERALIZATION: Blebs and veinlets of sulphides (confined to the pyroxenites and gabbros) that decreases in abundance through the unit.

305.00 322.78 **MAFIC VOLCANICS with SEDIMENTARY INTERBEDS**

Upper contact is sheared and altered. Unit is composed of layers of mafic to intermediate volcanics with sedimentary interbeds. Most of the volcanics are silicified with quartz/feldspar porphyroblasts, often concentrated around quartz veinlets. Sedimentary units contain garnets (1-5mm) with siliceous blobs.

ALTERATION: Silicification, minor carbonation.

MINERALIZATION: Disseminated to stretched sulphides sporadically occur, mostly within garnet bearing sedimentary layers.

END OF HOLE



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To: CASCADIA INTERNATIONAL RESOURCES INC.
1530-715 5TH AVE SW
CALGARY AB T2P 2X6

Page: 1
Finalized Date: 2-AUG-2005
Account: CAIN

CERTIFICATE TB05059838

Project: NL05-18/19

P.O. No.:

This report is for 99 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-JUL-2005.

The following have access to data associated with this certificate:

JIM EVASKEVICH

BOB MIDDLETON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Ni-AA46	Ore grade Ni - aqua regia/AA	AAS
OA-GRA08	Specific Gravity - Bulk Sample	WST-SEQ
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: CASCADIA INTERNATIONAL RESOURCES INC.
ATTN: BOB MIDDLETON
1158 A RUSSELL ST
THUNDER BAY ON P7B 5N2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Total # Pages: 4 (A - C)
Finalized Date: 2-AUG-2005
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TB05059838

Sample Description	Method Analyte Units LOR	WEI-21	OA-GRA08	PGM-ICP23		PGM-ICP23		PGM-ICP23		ME-ICP41		ME-ICP41		ME-ICP41		ME-ICP41		ME-ICP41		ME-ICP41		ME-ICP41	
		Recvd Wt. kg	S.G. Unlty	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm							
		0.02	0.01	0.001	0.005	0.001	0.007	0.005	0.029	0.2	0.39	3	<10	<10	<0.5	<2	1.41	<0.5	107				
335226		2.32	3.30	0.007	0.005	0.029	0.005	0.029	0.2	0.39	3	<2	<10	<10	<0.5	<2	1.41	<0.5	107				
335227		1.94	2.74	0.003	0.011	0.008	0.003	0.008	<0.2	1.54	<2	<2	<10	130	<0.5	<2	1.15	<0.5	12				
335228		2.24	3.26	0.034	0.161	0.452	0.161	0.452	2.3	2.20	<2	<2	<10	100	0.5	<2	0.59	0.6	258				
335229		2.14	3.67	0.020	0.095	1.045	0.020	1.045	2.2	1.08	<2	<2	<10	30	1.0	<2	0.36	0.5	388				
335230		2.44	3.93	0.024	0.009	1.580	0.024	1.580	1.3	0.49	2	<2	<10	10	<0.5	<2	0.45	1.1	638				
335231		2.24	3.47	0.136	0.061	0.841	0.136	0.841	5.9	0.71	<2	<2	<10	10	<0.5	<2	0.34	0.8	576				
335232		2.31	3.33	0.031	0.031	0.457	0.031	0.457	4.7	0.64	2	<2	<10	<10	<0.5	<2	0.48	0.6	416				
335233		2.14	3.94	0.026	0.174	0.241	0.026	0.174	9.5	0.86	<2	<2	<10	10	<0.5	3	0.54	<0.5	210				
335234		2.16	3.05	0.017	0.032	0.107	0.017	0.107	5.5	1.10	2	<2	<10	10	<0.5	<2	0.86	0.5	82				
335235		2.16	3.52	0.026	0.137	0.404	0.026	0.404	7.6	0.89	<2	<2	<10	10	<0.5	<2	0.64	<0.5	405				
335236		2.05	3.28	0.016	0.096	0.331	0.016	0.331	3.0	1.45	<2	<2	<10	<10	<0.5	<2	0.13	<0.5	204				
335237		2.30	3.10	0.033	0.727	0.704	0.033	0.704	3.6	0.55	<2	<2	<10	20	<0.5	<2	0.27	1.1	807				
335238		2.03	3.25	0.047	0.076	0.559	0.047	0.559	5.6	0.46	<2	<2	<10	<10	<0.5	4	0.47	1.0	623				
335239		2.03	3.06	0.209	0.036	0.140	0.209	0.036	4.7	1.61	<2	<2	<10	10	<0.5	<2	0.85	1.0	216				
335240		2.12	4.18	0.013	0.069	0.562	0.013	0.562	3.7	0.85	<2	<2	<10	10	<0.5	<2	0.46	1.0	365				
335241		2.17	3.14	0.018	0.072	0.410	0.018	0.410	1.8	1.22	<2	<2	<10	20	<0.5	<2	0.54	<0.5	253				
335242		2.52	3.23	0.052	0.087	0.664	0.052	0.664	1.6	0.91	<2	<2	<10	20	0.6	<2	0.55	1.0	437				
335243		1.48	2.96	0.008	0.059	0.158	0.008	0.158	0.6	2.44	<2	<2	<10	50	1.3	<2	0.61	<0.5	106				
335244		2.23	3.45	0.023	0.029	0.154	0.023	0.154	0.7	1.58	2	<2	<10	50	0.8	<2	1.01	<0.5	134				
335245		1.94	2.80	0.008	<0.005	0.080	0.008	0.080	0.6	1.11	<2	<2	<10	30	<0.5	<2	0.80	<0.5	22				
335246		1.34	2.93	0.008	0.012	0.116	0.008	0.116	0.9	1.14	6	<2	<10	10	<0.5	<2	1.00	<0.5	62				
335247		2.12	2.99	0.015	0.060	0.150	0.015	0.150	0.7	1.02	4	<2	<10	10	<0.5	<2	0.97	<0.5	65				
335248		2.17	3.15	0.225	0.216	0.477	0.225	0.216	3.2	2.47	3	<2	<10	30	<0.5	<2	2.35	1.8	54				
335249		2.16	3.40	0.029	0.637	0.469	0.029	0.637	3.4	1.20	<2	<2	<10	40	<0.5	2	0.44	1.7	322				
335250		2.39	3.21	0.023	0.048	0.688	0.023	0.048	5.3	0.52	<2	<2	<10	10	<0.5	5	0.38	1.3	500				
335251		2.13	1.53	0.012	0.081	0.336	0.012	0.081	1.0	1.36	<2	<2	<10	70	<0.5	<2	0.62	<0.5	243				
335252		2.15	3.60	0.080	0.066	0.552	0.080	0.552	8.1	0.64	2	<2	<10	20	<0.5	<2	0.52	1.6	369				
335253		2.19	2.98	0.218	0.110	0.694	0.218	0.694	12.8	0.78	<2	<2	<10	10	<0.5	<2	0.45	0.7	371				
335254		2.20	3.11	0.016	0.272	0.967	0.016	0.967	1.6	0.51	<2	<2	<10	20	<0.5	<2	0.19	<0.5	705				
335255		2.20	3.43	0.045	0.061	0.816	0.045	0.061	2.9	0.56	<2	<2	<10	10	<0.5	3	0.45	<0.5	535				
335256		2.04	3.06	0.010	0.037	0.097	0.010	0.037	0.9	1.39	<2	<2	<10	30	<0.5	<2	0.59	<0.5	60				
335257		1.86	2.93	0.028	0.058	0.106	0.028	0.058	1.0	1.13	3	<2	<10	30	1.0	<2	0.86	<0.5	59				
335258		2.10		0.012	0.026	0.149	0.012	0.026	0.8	0.93	<2	<2	<10	40	<0.5	<2	0.48	<0.5	99				
335226B																							
335227B																							
335228B																							
335229B																							
335230B																							
335231B																							
335232B																							



TO: CASCADIA INTERNATIONAL RESOURCES INC.
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CERTIFICATE OF ANALYSIS **TB05059838**

Sample Description	Method Analyte Units LOR	ME-ICP41															ME-ICP41	ME-ICP41
		Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %		
335226		17	940	16.7	<10	1	0.02	<10	0.29	627	1	0.02	147	130	<2	6.05		
335227		58	89	2.11	10	1	0.46	20	0.84	633	<1	0.09	103	730	4	0.18		
335228		198	5800	14.7	<10	1	0.97	<10	2.25	885	<1	0.05	6360	340	3	5.02		
335229		50	6670	20.2	<10	1	0.37	<10	1.19	527	<1	0.03	>10000	150	4	6.71		
335230		25	3430	29.6	<10	1	0.03	<10	0.26	216	<1	0.05	>10000	210	7	8.11		
335231		102	>10000	21.2	<10	1	0.04	<10	0.84	468	1	0.02	>10000	160	3	7.52		
335232		43	>10000	18.3	<10	<1	0.03	<10	0.61	545	<1	0.05	9330	210	3	6.51		
335233		58	>10000	12.75	<10	<1	0.05	<10	0.83	605	<1	0.06	5790	230	5	5.00		
335234		63	>10000	4.96	<10	1	0.06	<10	0.89	535	<1	0.11	1420	220	2	2.22		
335235		68	>10000	12.70	<10	1	0.04	<10	0.87	630	<1	0.06	4910	190	2	5.82		
335236		195	5840	10.40	<10	1	0.01	<10	2.12	588	<1	0.01	4870	170	<2	4.41		
335237		72	7690	34.5	<10	<1	0.08	<10	0.49	532	<1	0.03	>10000	120	3	8.88		
335238		47	>10000	24.1	<10	<1	0.02	<10	0.43	465	<1	0.02	>10000	170	3	8.28		
335239		100	8860	8.02	<10	<1	0.07	<10	1.51	821	<1	0.05	2730	230	5	3.70		
335240		68	7110	19.6	<10	<1	0.05	<10	0.84	574	1	0.04	>10000	290	2	6.71		
335241		117	3770	12.50	<10	1	0.17	<10	1.30	606	<1	0.05	6130	220	2	4.82		
335242		77	3090	23.9	<10	<1	0.11	<10	0.95	385	<1	0.05	>10000	210	5	7.57		
335243		246	1140	6.42	10	<1	0.55	10	3.09	884	<1	0.04	2220	320	2	2.28		
335244		91	1535	7.68	<10	<1	0.18	10	1.56	666	<1	0.09	2810	370	<2	2.67		
335245		34	1610	8.49	<10	<1	0.16	10	0.54	1490	<1	0.05	631	680	<2	2.19		
335246		37	2100	8.03	<10	<1	0.04	20	0.43	715	<1	0.12	1885	700	6	2.84		
335247		46	1645	7.64	<10	<1	0.04	10	0.51	1350	<1	0.10	1575	360	2	2.06		
335248		112	3080	5.73	<10	<1	0.14	<10	0.99	1385	<1	0.18	1900	390	7	1.45		
335249		107	7500	15.9	<10	<1	0.24	<10	1.30	553	<1	0.05	7450	290	6	5.74		
335250		19	>10000	24.8	<10	<1	0.07	10	0.58	307	<1	0.04	>10000	180	3	7.33		
335251		75	2330	12.65	<10	<1	0.34	<10	1.57	471	<1	0.07	6400	250	<2	4.87		
335252		64	>10000	15.1	<10	<1	0.05	<10	0.69	415	<1	0.06	7020	230	3	6.03		
335253		76	>10000	20.6	<10	<1	0.07	<10	0.68	461	<1	0.06	8500	150	7	7.61		
335254		64	3610	38.4	<10	<1	0.16	<10	0.51	208	<1	0.02	>10000	110	<2	7.18		
335255		62	5460	28.6	<10	<1	0.06	<10	0.62	317	<1	0.05	>10000	140	4	7.49		
335256		108	1850	4.40	<10	<1	0.15	10	1.47	300	<1	0.06	1340	280	8	1.62		
335257		80	1175	3.27	<10	<1	0.14	10	0.91	240	<1	0.11	1055	310	5	1.36		
335258		82	1265	5.42	<10	<1	0.25	10	1.07	182	<1	0.05	2380	370	4	2.45		
335226B																		
335227B																		
335228B																		
335229B																		
335230B																		
335231B																		
335232B																		



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APPENDIX 5

Laboratory Procedures





Quality Assurance Overview

LABORATORY ACCREDITATION



All ALS Chemex laboratories in North America are registered to ISO 9001:2000 for the "provision of assay and geochemical analytical services" by BSI Quality Registrars.

In addition to ISO 9001:2000 registration, ALS Chemex is actively pursuing accreditation to ISO 17025 under CAN-P-1579 "Guidelines for Accreditation of Mineral Analysis Testing Laboratories". CAN-P-1579 is the Amplification and Interpretation of CAN-P-4 "General Requirements for the Accreditation of Calibration and Testing Laboratories" (Standards Council of Canada ISO/IEC Guide 25:1997(E)).

The ISO 9001:2000 registration provides evidence of a quality management system covering all aspects of our organization. ISO 17025 accreditation provides specific assessment of our laboratory's analytical capabilities. In our opinion, the combination of the two ISO standards provides our clients complete assurance regarding the quality of every aspect of ALS Chemex operations.

Aside from laboratory accreditation, ALS Chemex has been a leader in participating in, and sponsoring, the assayer certification program in British Columbia. In an accredited lab, staff changes can put the validity of the accreditation status in doubt, but by having staff accredited as well, such changes are not likely to have a negative impact on the lab's accreditation status. Many of our analysts have completed this demanding program that includes extensive theoretical and practical examinations. Upon successful completion of these examinations, they are awarded the title of Registered Assayer.

QUALITY ASSURANCE PROGRAM

The quality function is an integral part of all day-to-day activities at ALS Chemex and involves all levels of staff. Responsibilities are formally assigned for all aspects of the quality assurance program. As well, all senior staff is expected to actively participate in the quality program through regular Quality Assurance and Technical Meetings.

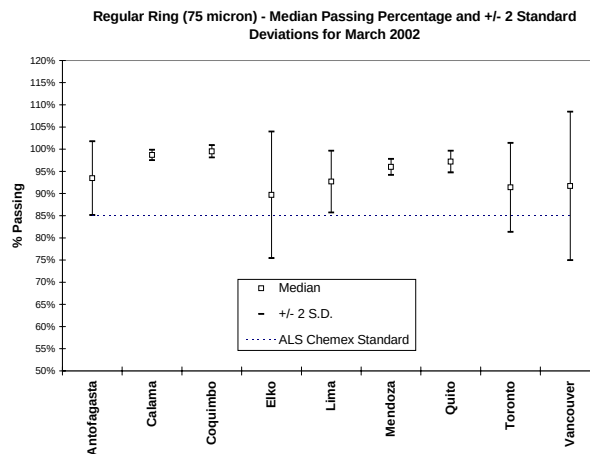
Sample Preparation Quality Specifications

Standard specifications for sample preparation are clearly defined and monitored. The specifications are as follows:

- Crushing
> 70% of the crushed sample passes through a 2 mm screen
- Ringing
> 85% of the ring pulverized sample passes through a 75 micron screen (Tyler 200 mesh)
- Samples Received as Pulps
>80% of the sample passes through a 75 micron screen (Tyler 200 mesh)

These characteristics are measured and results reported and logged to verify the quality of sample preparation. Our standard operating procedures require that at least one sample per day be taken from each sample preparation station. Measurement of sample preparation quality allows the identification of equipment, operators and processes that are not operating within specifications.

QC results from all sample preparation laboratories are reported to the QC department monthly. The data is combined and reported to senior management. Review of the performance of each laboratory branch takes place as part of the quarterly Quality Assurance meeting.



Other Sample Preparation Specifications

Sample preparation is a vital part of any analysis protocol. Many projects require sample preparation to other specifications, for instance > 90% of the crushed sample to pass through a 2 mm screen. These procedures can easily be accommodated and the

Prep QC monitoring system is essential in ensuring the required specifications are routinely met.

Analytical Quality Control – Reference Materials, Blanks & Duplicates

The Laboratory Information Management System (LIMS) inserts quality control samples (reference materials, blanks and duplicates) on each analytical run, based on the rack sizes associated with the method. The rack size is the number of sample including QC samples included in a batch. The blank is inserted at the beginning, standards are inserted at random intervals, and duplicates are analysed at the end of the batch. Quality control samples are inserted based on the following rack sizes specific to the method:

Rack Size	Methods	Quality Control Sample Allocation
20	Specialty methods including specific gravity, bulk density, and acid insolubility	2 standards, 1 duplicate, 1 blank
28	Specialty fire assay, assay-grade, umpire and concentrate methods	1 standard, 1 duplicate, 1 blank
39	XRF methods	2 standards, 1 duplicate, 1 blank
40	Regular AAS, ICP-AES and ICP-MS methods	2 standards, 1 duplicate, 1 blank
84	Regular fire assay methods	2 standards, 3 duplicates, 1 blank

The laboratory staff analyses quality control samples at least at the frequency specified above. If necessary, laboratory staff may include additional quality control samples above the minimum specifications.

All data gathered for quality control samples – blanks, duplicates and reference materials – are automatically captured, sorted and retained in the QC Database.

Quality Control Limits and Evaluation

Quality Control Limits for reference materials and duplicate analyses are established according to the precision and accuracy requirements of the particular method. Data outside control limits are identified and investigated and require corrective actions to be taken. Quality control data is scrutinised at a number of levels. Each analyst is responsible for ensuring the data submitted is within control specifications. In addition, there are a number of other checks.

Certificate Approval

If any data for reference materials, duplicates, or blanks falls beyond the control limits established, it is automatically flagged red by the computer system for serious failures, and yellow for borderline results. The Department Manager(s) conducting the final review of the Certificate is thus made aware that a problem may exist with the data set.

Precision Specifications and Definitions

Most geochemical procedures are specified to have a precision of $\pm 10\%$, and assay procedures $\pm 5\%$. The precision of Au analyses is dominated by the sampling precision.

Precision can be expressed as a function of concentration:

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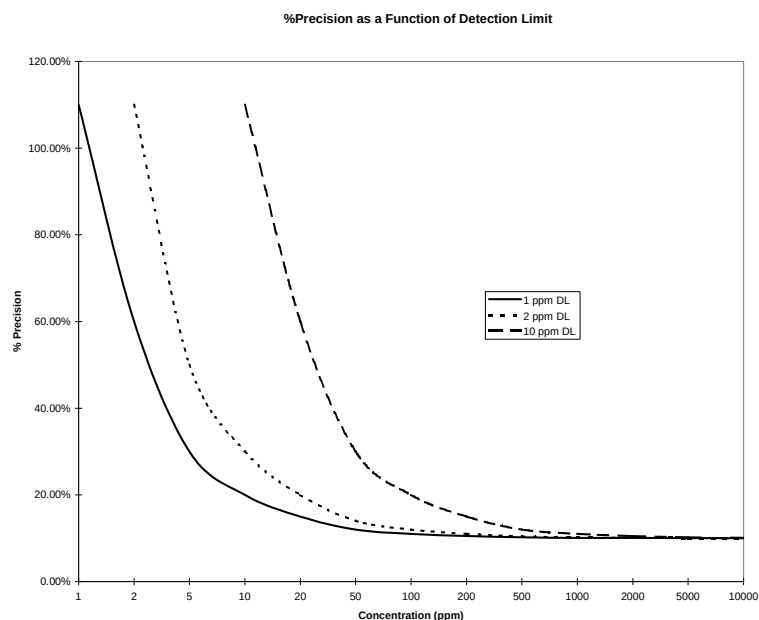
June 9, 2003

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$$P_c = \left(\frac{\text{DetectionLimit}}{c} + P \right) \times 100\%$$

where P_c - the precision at concentration c
 c - concentration of the element
 P - the "Precision Factor" of the element. This is the precision of the method at very high concentrations, i.e. 0.05 for 5%.

(M. Thompson, 1988. Variation of precision with concentration in an analytical system. Analyst, 113: 1579-1587.)

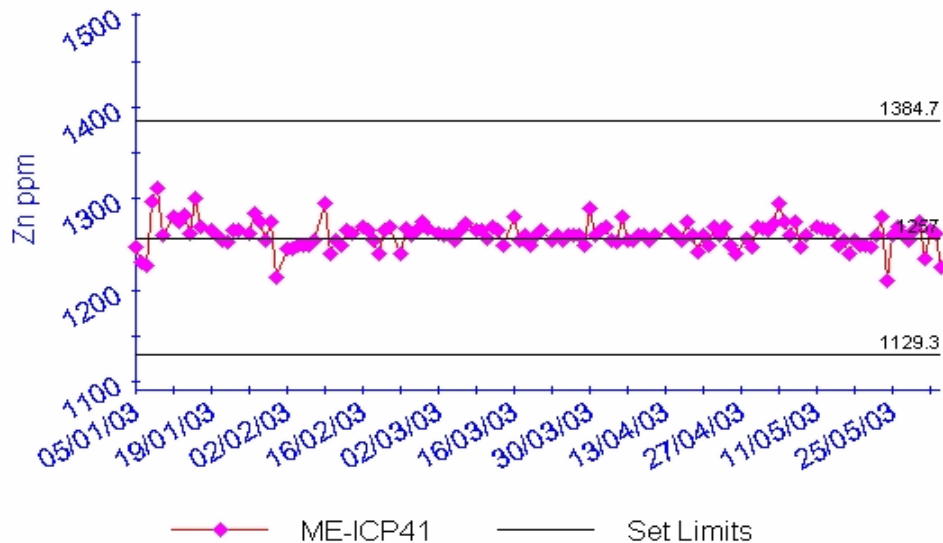


As an example, precision as a function of concentration (10% precision) is plotted for three different detection limits. The impact of detection limit on precision of results for low-level determinations can be dramatic

Evaluation of Trends

Control charts for frequently used method codes are generated and evaluated by the QA Department and distributed to Departmental managers for posting in the lab and review on a weekly basis. The control charts are evaluated to ensure internal specifications for precision and accuracy are met. The data is also reviewed for any long-term trends and drifts.

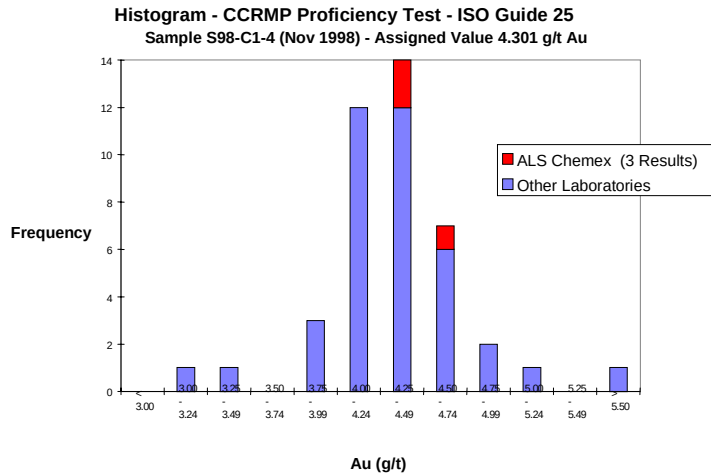
Control Chart for G2000, ME-ICP41, Zn



External Proficiency Tests

Proficiency testing provides an independent assessment of laboratory performance by an outside agency. Test materials are regularly distributed to the participants, ideally four times a year, and results are processed by a central agency. The results are usually converted to some kind of score, such as Z-scores.

All ALS Chemex analytical facilities in North America participate in proficiency tests for the analytical procedures routinely done at each laboratory. ALS Chemex has participated in several rounds of proficiency tests organized by organizations such as Canadian Certified Reference Materials Projects, and Geostats as well as a number of independent studies organized by consultants for specific clients. We have participated also participated in several certification studies for new certified reference materials by CANMET and Rocklabs.



ALS Chemex has obtained the highest rating for the results submitted, with a few minor exceptions. Feedback from these studies is invaluable in ensuring our continuing accuracy and validation of method.

Quality Assurance Meetings

A review of quality assurance issues is held once every 4 to 8 weeks at a Quality Assurance Meeting and are documented in the meeting agenda and minutes. The meetings cover topics such as:

- Results of internal round robin exchanges, external proficiency tests and performance evaluation samples
- Monitoring of control charts for reference materials
- Review of sample preparation quality control results from all branch offices
- Review of quality system failures
- Incidents raised by clients
- Results of internal quality audits
- Other quality assurance issues

The Quality Assurance Department and senior management participate in these meetings, either in person or by teleconference.

In addition weekly Technical Meetings are held to proactively handle technical or quality issues and ensure their quick resolution. Departmental managers and senior technical staff are present at these meetings.

QUALITY ASSURANCE

The ALS Chemex quality system complies with the requirements of the international standards ISO 9001:2000 and ISO 17025:1999 and operates in all laboratory sites. The recently implemented LIMS has been designed using these requirements to enhance laboratory quality assurance protocols and to provide the traceability necessary for today's stringent reporting requirements.

Each laboratory employs comprehensive quality control programs to monitor sample preparation and analysis. Sample preparation QC protocols include the use of barren material to clean sample preparation equipment between sample batches and, where necessary, between highly mineralised samples. It also includes monitoring the particle size of crushed material, where appropriate, and the fineness of the final sample pulp.

Analytical accuracy and precision are monitored by the analysis of reagent blanks, reference materials and replicate samples. Participation in monthly inter-laboratory test programs covering both gold and base metal analysis enables senior management to critically assess the performance of each laboratory.

ALS Chemex maintains an extensive library of international and in-house standards for quality control purposes. For large projects, we can prepare and certify a standard from the client's own material to ensure a matrix match.



SAMPLE TRACKING SYSTEM

ALS Chemex has developed a unique sample tracking system that is an integral part of the company's new Laboratory Information Management System (LIMS). This system utilizes bar coding and scanning technology that provides complete chain of custody records for every stage in the sample preparation and analytical process.

Upon receipt of samples at any of the ALS Chemex worldwide locations, a bar code label is attached to the original sample bag. This label is then scanned and the weight of sample recorded together with information such as date, time, equipment used and operator name. The scanning process is repeated for each subsequent activity performed on the sample from sample preparation to analysis through to the storage or disposal of the pulp and reject material. Sample labels are also scanned at the shipping and destination locations whenever samples are transported locally or internationally between ALS Chemex facilities. The system has also been designed to accept client supplied bar coded labels that are attached to the sample bags in the field.

The benefits of this system to our clients are:

- **Complete traceability of the sample through the entire laboratory process.**
- **Sample integrity is guaranteed by scanning the sample label at every stage.**
- **Record of every sample weight submitted to the laboratory from the field.**
- **Full computer generated audit report available on request to complement property evaluation audits.**

Two variants exist depending on whether samples are received with or without bar code labels.

<i>Description</i>	<i>Application</i>	<i>Code</i>	<i>Price per Sample (\$)</i>
<i>Log Sample in tracking system and weigh</i>			
Samples received with bar code labels attached.	All samples.	LOG-21	0.75
Samples received without bar code labels attached.		LOG-22	0.75

SAMPLE PREPARATION

The purpose of sample preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory, unless the client wishes to assess a particular size fraction. The actual sample preparation procedure selected will vary depending on the type and size of the sample submitted.

Sample preparation is the most critical step in the entire laboratory operation. ALS Chemex has specified certain parameters that must be achieved in preparing samples to ensure that homogeneous and representative sub-samples are submitted for analysis. These parameters will not be achieved if sample size exceeds the equipment capacity.

To ensure that your samples are prepared correctly we recommend that you discuss your proposed requirements with the laboratory manager and advise staff of any mineralised samples submitted that may require additional equipment clean-up to avoid contaminating following samples.

SAMPLE PREPARATION PACKAGES

The packages described below are used to produce a representative sub-sample.

Description	Application	Code	Price per Sample (\$)
Log sample in tracking system, weigh, dry, coarse crush and pulverize entire sample to better than 85% passing 75 micron.	Rock chip or drill sample with a maximum particle size of 20 mm. (Samples up to 3kg).	PREP-22	9.35 plus 1.50 / kg
Log sample in tracking system, weigh, dry, fine crush entire sample to better than 70% -2mm, split off up to 250g and pulverize split to better than 85% passing 75 micron.	Rock chip or drill sample.	PREP-31	6.00 plus 0.30 / kg
Log sample in tracking system, weigh, dry, fine crush entire sample to better than 70% -2mm, split off up to 1kg and pulverize split to better than 85% passing 75 micron.	Rock chip or drill sample.	PREP-31B	6.85 plus 0.30 / kg
Log sample in tracking system, weigh, dry, fine crush entire sample to better than 70% -2mm, split off up to 1.5kg and pulverize split to better than 85% passing 75 micron.	Rock chip or drill sample.	PREP-32	8.75 plus 0.30 / kg
Log sample in tracking system, weigh, dry, and dry-sieve sample to -180 micron (80 mesh). Retain both fractions. Applicable to samples < 1kg.	Soil or sediment sample up to 1kg.	PREP-41	1.25 plus 1.75 / kg

SAMPLE PREPARATION PROCEDURES

The following procedures are used either separately or combined in a package in order to meet specific sample preparation requirements. Most of these procedures are charged out on a per kg basis.



DRYING

Drying charges are applied only to samples that are excessively wet, in the opinion of the laboratory manager.

<i>Description</i>	<i>Application</i>	<i>Code</i>	<i>Price per kg (\$)</i>
Drying of samples in drying ovens.	Default drying procedure for most rock chip and drill samples.	DRY-21	1.90 plus 0.20 / kg
Drying of samples in drying ovens that are controlled to a maximum temperature of 60°C.	Most soil and sediment samples that are analysed for volatile elements.	DRY-22	1.90 plus 0.20 / kg
Air-drying of samples.	Samples that will be analysed using selective leach procedures.	DRY-23	2.50 plus 0.25 / kg

CRUSHING

Samples that are too coarse to be put directly into a large pulverizing mill, or where the particle size needs to be reduced before we are able to take a representative split for further pulverization, are crushed using jaw and/or roll crushers.

<i>Description</i>	<i>Application</i>	<i>Code</i>	<i>Price per kg (\$)</i>
Coarse crushing of rock chip and drill samples to 70% nominal -6mm.	Used if the material is too coarse for introduction into the pulverizing mill, and as a preliminary step before fine crushing of larger samples.	CRU-21	2.25 plus 0.20 / kg
Fine crushing of rock chip and drill samples to 70% -2mm or better.	Standard preparation procedure for samples where a representative split will be pulverized.	CRU-31	2.25 plus 0.25 / kg

SPLITTING

Some samples require the division of one or more size fractions into representative splits.

<i>Description</i>	<i>Application</i>	<i>Code</i>	<i>Price per kg (\$)</i>
Split sample using a riffle splitter.	Standard splitting procedure	SPL-21	1.50 plus 0.15 / kg
Split sample using a rotary splitter.	Premium splitting procedure.	SPL-22	2.50 plus 1.25 / kg

PULVERIZING

All pulverizing procedures make use of 'flying disk' or 'ring and puck' style grinding mills. Unless otherwise indicated, all pulverizing procedures guarantee that for most sample types at least 85% of the material will be pulverized to 75 micron (200 Mesh) or better.

<i>Description</i>	<i>Application</i>	<i>Code</i>	<i>Price per Sample (\$)</i>
Pulverize a split or total sample of up to 250g to 85% passing 75 micron or better.	Default procedure for samples that are finely crushed and split prior to pulverizing or for total samples up to 250g.	PUL-31	3.15
Pulverize a 1000g split to 85% passing 75 micron or better.	Pulverizing of a 1kg split or total sample up to 1kg.	PUL-32	4.20
Pulverize the entire sample to 85% passing 75 micron or better.	Appropriate for samples up to 3kg.	PUL-21	8.25 plus 1.50 / kg

Note: Most pulverizing bowls and pucks are made from a low chrome steel. For "chrome free" pulverizing and non-metallic sample preparation other bowls are available (ie. tungsten carbide, agate, etc.). Please enquire for pricing.

SCREENING

For some sample types, one or more size fractions need to be separated from the bulk sample. Other mesh sizes, as well as multiple screening procedures are also available.

<i>Description</i>	<i>Application</i>	<i>Code</i>	<i>Price per Sample (\$)</i>
Dry screening to 180 micron (80 mesh)	Standard preparation for soil and stream sediment samples.	SCR-41	1.25 plus 2.00 / kg
Retain both fractions.		SCR-42	0.75 plus 2.00 / kg
Save minus fraction only.			
Dry screening to 106 micron (150 mesh).	Save both fractions.	SCR-41d	2.00 plus 2.50 / kg
Dry screening to 75 micron (200 mesh).	Save both fractions.	SCR-41f	2.50 plus 3.00 / kg
Wet screening to 75 micron (200 mesh) and save minus fraction only.	Accurate separation of the 75 micron fraction.	SCR-31	3.75 plus 3.00 / kg

SILVER

Analyte	Range (ppm)	Description	Code	Price per Sample (\$)
Trace Level				
Ag	0.2 - 100	Ag by aqua regia digestion and AAS.	Ag-AA45	4.50
Ag	0.5 - 100	Ag by HF-HNO ₃ -HClO ₄ digestion, HCl leach and AAS.	Ag-AA61	5.75
Note: See also multi-element methods that include Ag under "Exploration Geochemistry" pages 12 - 16.				
Ore Grade				
Ag	1-1500	Ag by aqua regia digestion, AAS finish.	Ag-AA46	8.25 or 4.50 plus 3.75 /element
Ag	1-1000	Ag by HF-HNO ₃ -HClO ₄ digestion with HCl leach, AAS finish.	Ag-AA62	10.00 or 6.25 plus 3.75 /element
Ag	5- 10,000	Ag by fire assay and gravimetric finish. 30g nominal sample weight.	Ag-GRA21	14.00
		50g nominal sample weight.	Ag-GRA22	15.50
Concentrates				
Ag	50 - 15,000	Ag by fire assay and gravimetric finish.	Ag-CON01	60.00
Bullion				
Ag	1-1000 (fineness)	Ag in bullion by fire assay and gravimetric finish.	Ag-UMP20	150.00

PLATINUM, PALLADIUM AND OTHER PRECIOUS METALS

Analyte	Range (ppm)	Description	Code	Price per Sample (\$)
Trace Level				
Pt Pd Au	0.005-10 0.001-10 0.001-10	Pt, Pd and Au by fire assay and ICPAES finish. 30g nominal sample weight. 50g nominal sample weight.	PGM-ICP23 PGM-ICP24	16.25 17.50
Pt Pd Ir Os Rh Ru Au	0.002-2 0.002-1 0.002-1 0.002-1 0.002-1 0.002-1 0.005-1	Pt, Pd, Ir, Os, Rh, Ru and Au by fire assay with nickel sulfide collection and ICPAES. 30g nominal sample weight. Note: Au is not quantitative by this method.	PGM-MS26	125.00 (375.00 minimum)
Ore Grade				
Pt Pd Au	0.03-100 0.03-100 0.03-100	Pt, Pd and Au by fire assay and ICPAES finish. 30g nominal sample weight.	PGM-ICP27	18.50

At your request, precious metals reporting units can be specified as ppb, ppm, g/t or oz/t (except for bullion assays).

FOUR ACID "NEAR-TOTAL" DIGESTION

Quantitatively dissolves nearly all elements for the majority of geological materials. Only the most refractory minerals, such as zircons, are partially dissolved using this procedure.*

Description: 47 elements by HF-HNO₃-HClO₄ acid digestion, HCl leach and combination of ICPMS and ICPAES. Hg determined using a separate digestion.

Analytes and Ranges (ppm) - Package Only				Code	Price per Sample (\$)
Ag (0.01-100)	Cu (0.2-10,000)	Na (0.01%-10%)	Ta* (0.05-100)	ME-MS61	22.50
Al (0.01%-25%)	Fe (0.01%-25%)	Nb (0.1-500)	Te (0.05-500)		
As (0.2-10,000)	Ga (0.05-500)	Ni (0.2-10,000)	Th (0.2-500)		
Ba* (10-10,000)	Ge (0.05-500)	P (10-10,000)	Ti* (0.005%-10%)		
Be (0.05-1000)	Hf (0.1-500)	Pb (0.5-10,000)	Tl (0.02-500)	ME-MS61m	28.50
Bi (0.01-10,000)	In (0.005-500)	Rb (0.1-500)	U (0.1-500)		
Ca (0.01%-25%)	K (0.01%-10%)	Re (0.002-50)	V (1-10,000)		
Cd (0.02-500)	La (0.5-500)	S (0.01%-10%)	W* (0.1-10,000)		
Ce (0.01-500)	Li (0.2-500)	Sb (0.05-1000)	Y (0.1-500)		
Co (0.1-10,000)	Mg (0.01%-15%)	Se (1-1000)	Zn (2-10,000)		
Cr* (1-10,000)	Mn (5-10,000)	Sn* (0.2-500)	Zr* (0.5-500)		
Cs (0.05-500)	Mo (0.05-10,000)	Sr (0.2-10,000)			

To include Hg (0.01-100ppm using separate digestion) in the suite of elements above, please request method code ME-MS61m instead of ME-MS61.

FUSION (LITHIUM BORATE)

For quantitative results of all elements, including those encapsulated in resistive materials.

Description: 38 elements by lithium borate fusion and ICPMS.

Analytes and Ranges (ppm) - Package Only				Code	Price per Sample (\$)
Ag (1-1000)	Ga (1-1000)	Pb (5-10,000)	Tl (0.5-1000)	ME-MS81	27.50 (complete package) or 25.00 plus 0.25 / element
Ba (0.5-10,000)	Gd (0.1-1000)	Pr (0.1-1000)	Tm (0.1-1000)		
Ce (0.5-10,000)	Hf (1-10,000)	Rb (0.2-10,000)	U (0.5-1000)		
Co (0.5-10,000)	Ho (0.1-1000)	Sm (0.1-1000)	V (5-10,000)		
Cr (10-10,000)	La (0.5-10,000)	Sn (1-10,000)	W (1-10,000)		
Cs (0.1-10,000)	Lu (0.1-1000)	Sr (0.1-10,000)	Y (0.5-10,000)		
Cu (5-10,000)	Mo (2-10,000)	Ta (0.5-10,000)	Yb (0.1-1000)		
Dy (0.1-1000)	Nb (1-10,000)	Tb (0.1-1000)	Zn (5-10,000)		
Er (0.1-1000)	Nd (0.5-10,000)	Th (1-1000)	Zr (0.5-10,000)		
Eu (0.1-1000)	Ni (5-10,000)				



With more than ten ICPMS instruments installed in our laboratories, ICPMS analysis has become an affordable technique for the analysis of the large number of samples that are typically generated in geochemical exploration programs.

TRACE LEVEL METHODS USING CONVENTIONAL ICPAES ANALYSIS

The economical approach towards multi-element geochemistry. Suitable for exploration samples such as soils, sediments and weakly mineralised rock or drill samples.

AQUA REGIA DIGESTION

Quantitatively dissolves base metals for the majority of geological materials, and may provide anomaly enhancement in some geological environments. Major rock forming elements and more resistive metals are only partially dissolved.

Description: 34 elements by aqua regia acid digestion ICPAES.

Analytes and Ranges (ppm)				Code	Price per Sample (\$)
Ag (0.2-100)	Co (1-10,000)	Mn (5-10,000)	Sr* (1-10,000)	ME-ICP41	9.00
Al* (0.01%-15%)	Cr* (1-10,000)	Mo (1-10,000)	Ti* (0.01%-10%)		
As (2-10,000)	Cu (1-10,000)	Na* (0.01%-10%)	Tl* (10-10,000)		
B* (10-10,000)	Fe (0.01%-15%)	Ni (1-10,000)	U (10-10,000)		
Ba* (10-10,000)	Ga* (10-10,000)	P (10-10,000)	V (1-10,000)	ME-ICP41m	12.00
Be* (0.5-100)	Hg (1-10,000)	Pb (2-10,000)	W* (10-10,000)		
Bi (2-10,000)	K* (0.01%-10%)	S (0.01%-10%)	Zn (2-10,000)		
Ca* (0.01%-15%)	La* (10-10,000)	Sb (2-10,000)			
Cd (0.5-500)	Mg* (0.01%-15%)	Sc* (1-10,000)			

Note 1: For elements marked with * digestion will be incomplete for most sample matrices.

Note 2: To include Hg to a lower detection limit of 0.01ppm in the suite of elements above, please **request** method code **ME-ICP41m** instead of ME-ICP41.

FOUR ACID "NEAR TOTAL" DIGESTION

Quantitatively dissolves nearly all elements for the majority of geological materials. Only the most resistive minerals, such as zircons, are only partially dissolved using this procedure.*

Description: 27 elements by HF-HNO₃-HClO₄ acid digestion, HCl leach and ICPAES.

Analytes and Ranges (ppm)				Code	Price per Sample (\$)
Ag (0.5-100)	Cd (0.5-500)	Mn (5-10,000)	Sb (5-10,000)	ME-ICP61	12.00
Al (0.01%-25%)	Co (1-10,000)	Mo (1-10,000)	Sr (1-10,000)		
As (5-10,000)	Cr* (1-10,000)	Na (0.01%-10%)	Ti* (0.01%-10%)		
Ba* (10-10,000)	Cu (1-10,000)	Ni (1-10,000)	V (1-10,000)		
Be (0.5-1000)	Fe (0.01%-25%)	P (10-10,000)	W* (10-10,000)	ME-ICP61m	18.00
Bi (2-10,000)	K (0.01%-10%)	Pb (2-10,000)	Zn (2-10,000)		
Ca (0.01%-25%)	Mg (0.01%-15%)	S (0.01%-10%)			

Note 1: To include Hg (0.01-100ppm using separate digestion) in the suite of elements above, please **request** method code **ME-ICP61m** instead of ME-ICP61.

SINGLE ELEMENT METHODS

These methods are effective options when analytical results for one or only a few elements are required. You can create your own package of elements specific to your exploration program.

GEOCHEMICAL DIGESTIONS – AQUA REGIA

Analytes and Ranges (ppm)				Code	Price per Sample (\$)
Atomic Absorption Spectrometry (AAS)					
Ag (1-100)	Co (5-10,000)	Mo (5-10,000)	Sb* (5-10,000)	(+)-AA47	2.50 plus 1.50 /element
As (2-10,000)	Cu (2-10,000)	Ni (5-10,000)	Zn (5-10,000)		
Bi (5-10,000)	Fe (0.01%-15%)	P (10-10,000)			
Ca* (0.01%-15%)	Mg*(0.01%-15%)	Pb (10-10,000)			
Cd (1-10,000)	Mn (5-10,000)	S* (10-10,000)			
Atomic Absorption Spectrometry (AAS)					
Ag (0.2-100)	Co (1-10,000)	Mn (5-10,000)	Pb (1-10,000)	(+)-AA45	2.50 plus 2.00 /element
As (1-10,000)	Cu (1-10,000)	Mo (1-10,000)	Sb* (5-10,000)		
Cd (0.1-200)	Fe (0.01%-15%)	Ni (1-10,000)	Zn (2-10,000)		

+ Add element symbol as prefix to method code.

* For elements marked with * digestion will be incomplete for most sample matrices.

GEOCHEMICAL DIGESTIONS – FOUR ACID (NEAR TOTAL)

Analytes and Ranges(ppm)				Code	Price per Sample (\$)
Atomic Absorption Spectrometry (AAS)					
Ag (1-100)	Co (5-10,000)	Mo (5-10,000)	Sr (10-10,000)	(+) - AA63	3.75 plus 1.50 /element
Al* (0.01%-25%)	Cr* (5-10,000)	Na (0.01%-10%)	Ti* (0.01%-10%)		
As (5-10,000)	Cu (5-10,000)	Ni (5-10,000)	V (10-10,000)		
Ba* (10-10,000)	Fe (0.01%-25%)	P (10-10,000)	W* (10-10,000)		
Bi (5-10,000)	K (0.01%-10%)	Pb (5-10,000)	Zn (5-10,000)		
Ca (0.01%-25%)	Mg (0.01%-15%)	S (0.01%-5%)	Zr* (20-10,000)		
Cd (5-500)	Mn (5-10,000)	Sb (5-1000)			
Atomic Absorption Spectrometry (AAS)					
Ag (0.5-100)	Cr* (2-10,000)	Mo (2-10,000)	V (5-10,000)	(+) - AA61	3.75 plus 2.00 /element
Ba* (10-10,000)	Cu (1-10,000)	Ni (2-10,000)	Zn (5-10,000)		
Ca (0.01%-15%)	Fe (0.01%-15%)	Pb (2-10,000)			
Co (2-10,000)	Mg (0.01%-15%)	Sr (1-10,000)			
ICP Mass Spectrometry (ICPMS)					
As (0.5-10,000)	Ga (0.1-2500)	Sb (0.1-2500)	Te (0.05-2500)	ME-MS62	10.00 plus 1.25 /element
Bi (0.2-2500)	Ge (0.1-2500)	Se (1-2500)	Tl (0.05-2500)		

+ Add element symbol as prefix to method code.

* Only the most refractory minerals such as zircons are partially dissolved using this procedure.

PRESSED PELLET WAVELENGTH DISPERSIVE XRF

Analytes and Ranges (ppm)				Code	Price per Sample (\$)
As (5-5000)	La (10-10,000)	Sn (5-10,000)	U (4-10,000)	(*)-XRF05	6.25 plus 1.25 / element
Ba (10-10,000)	Nb (2-10,000)	Sr (2-10,000)	W (10-10,000)		
Ce (10-10,000)	Ni (10-15,000)	Ta (10-10,000)	Y (2-10,000)		
Cu (10-10,000)	Rb (2-10,000)	Th (4-10,000)	Zr (2-10,000)		
			Zn (10-10,000)		

* Add element symbol as prefix to method code.

INDIVIDUAL METHODS - MISCELLANEOUS TECHNIQUES

Analyte	Range (ppm)	Description	Code	Price per Sample (\$)
B	20-10,000	Fusion - ICPAES.	B-ICP82	12.30
Br**	0.5-10,000	Neutron Activation.	BR-NAA05	15.00
C (total)	0.01-50%	Total carbon by Leco furnace.	C-IR07	10.00
C (non-carbonate)	0.01-50%	Dilute acid digestion followed by Leco furnace.	C-IR06	16.00
C (carbonate)	0.01-50%	Inorganic C by coulometer.	C-GAS05	15.00
Cl	50-10,000	Neutron Activation.	CL-NAA06	15.00
Cl	50-20,000	Fusion - S.I.E	CL-ELE81A	10.00
F	20-10,000	Fusion - S.I.E.	F-ELE81	10.00
FeO	0.01-100%	Ferrous iron by HCl-HF acid digestion and titrimetric finish.	Fe-VOL05	13.75
Hg	0.01-100	Aqua Regia Digestion/Cold Vapor, AAS.	Hg-CV41	6.00
I **	20-10,000	Neutron Activation.	I-NAA07	15.00
S (total)	0.01-50%	Total sulfur by Leco furnace.	S-IR08	10.00
S (sulfate)*	0.01-50%	Sulfate S by carbonate leach and gravimetric analysis	GRA06	22.50
S (sulfide)	0.01-10%	Calculated by difference between total sulfur and sulfate sulfur.	S-IR07	22.50
U**	0.2-10,000	Neutron Activation.	U-NAA05	15.00
pH	-	Soil pH (1:1 ratio).	OA-ELE05	6.00
Total Dissolved Solids	-	Conductivity of Soil Extract.	OA-ELE06	6.25
H₂O - (moisture)	0.01-100%	Gravimetric procedure after drying at 105°C.	OA-GRA10	10.00
H₂O +(water of crystallization)	0.01-100%	By Leco.	OA-IR06	10.00
LOI	0.01%-100%	LOI at 1000°C.	OA-GRA05	10.00
SG	-	Specific Gravity on Solid Objects.	OA-GRA08	10.00
SG	-	Specific Gravity on Pulps (Pycnometer).	OA-GRA08b	10.00
BD	-	Bulk Density.	OA-GRA09	10.00

For most analytical methods the purpose of sample decomposition is to properly destroy the solid-phase system of the geological sample, allowing the release of the elements of interest into a liquid solution. Therefore, the suitability of a sample decomposition procedure for a given sample type depends on the sample mineralogy and texture, as well as on the intended use of the analytical results. Our staff would be pleased to discuss your specific requirements.

* Sulfate S may be understated if BaSO₄ or SrSO₄ present.

** A surcharge may apply for batches of less than 20 samples.

EVALUATION OF ORES AND HIGH GRADE MATERIALS

While analytical methods for geochemical exploration are optimised for low detection limits, the assays for evaluation of ores and high-grade materials are optimised for accuracy and precision at high concentrations. The methods described below are suitable for most ores and high-grade materials. Depending on the purpose of the analytical results, concentrations greater than 15 - 20% may require the use of more expensive methods, such as titrimetric and gravimetric analysis, in order to achieve the maximum accuracy. Please contact your nearest ALS Chemex laboratory should you require this type of analysis.

For gold and platinum group metals please see Precious Metals on pages 8-11.

When results for more than one element are required, the most economical solution will be to combine elements that use the same analytical protocol.

Analyte	Range (%)	Description	Code	Price per Sample (\$)
Ag	1-1,500**	Aqua Regia - AAS	Ag-AA46	8.25 or 4.50 + 3.75 / element
Ag	1-1,000**	HF-HNO ₃ -HClO ₄ - AAS	Ag-AA62	10.00 or 6.25 + 3.75 / element
Ag	5-10,000**	Fire Assay - Grav.	Ag-GRA21	15.00
Al*	0.01-50	HF-HNO ₃ -HClO ₄ - AAS	Al-AA62	10.00 or 6.25 + 3.75 / element
Al*	0.01-30	Fusion - ICPAES	Al-ICP81	12.50 or 8.75 + 3.75 / element
As	0.01-30	HF-HNO ₃ -HClO ₄ - AAS	As-AA62	10.00 or 6.25 + 3.75 / element
As	0.01-10	Fusion - ICPAES	As-ICP81	12.50 or 8.75 + 3.75 / element
Ba	0.01-50	Fusion - XRF	Ba-XRF10	15.00 or 11.25 + 3.75 / element
Bi	0.001-30	Aqua Regia - AAS	Bi-AA46	8.25 or 4.50 + 3.75 / element
C	0.01-50	Total Carbon	C-IR07	10.00
C	0.01-50	Organic Carbon	C-IR06	15.00
C	0.2-50	Inorganic Carbon (CO ₂) by Coulometer	C-GAS05	12.50
Ca*	0.01-50	HF-HNO ₃ -HClO ₄ - AAS	Ca-AA62	10.00 or 6.25 + 3.75 / element
Ca*	0.01-30	Fusion - ICPAES	Ca-ICP81	12.50 or 8.75 + 3.75 / element
Cd	1ppm-10	Aqua Regia - AAS	Cd-AA46	8.25 or 4.50 + 3.75 / element
Cd	1ppm-10	HF-HNO ₃ -HClO ₄ - AAS	Cd-AA62	10.00 or 6.25 + 3.75 / element
Cl	0.01-50	Neutron Activation	Cl-NAA07	18.75
Co	0.001-50	HF-HNO ₃ -HClO ₄ - AAS	Co-AA62	10.00 or 6.25 + 3.75 / element
Co	0.002-30	Fusion - ICPAES	Co-ICP81	12.50 or 8.75 + 3.75 / element
Cr	0.01-30	Fusion - ICPAES or AAS	Cr-ICP81	12.50 or 8.75 + 3.75 / element
Cu	0.01-50	Aqua Regia - AAS	Cu-AA46	8.25 or 4.50 + 3.75 / element
Cu	0.01-50	HF-HNO ₃ -HClO ₄ - AAS	Cu-AA62	10.00 or 6.25 + 3.75 / element
Cu	0.005-30	Fusion - ICPAES	Cu-ICP81	12.50 or 8.75 + 3.75 / element
Cu	0.001-10	Nonsulfide - ICPAES or AAS	Cu-AA05	8.75
Fe	0.01-30	Aqua Regia - AAS	Fe-AA46	8.25 or 4.50 + 3.75 / element
Fe	0.01-30	HF-HNO ₃ -HClO ₄ - AAS	Fe-AA62	10.00 or 6.25 + 3.75 / element
Fe	0.05-60	Fusion - ICPAES	Fe-ICP81	12.50 or 8.75 + 3.75 / element
FeO	0.01-100	HF-H ₂ SO ₄ - Titrimetric	Fe-VOL05	15.00
Hg	0.1-10	Aqua Regia - Cold Vapour, AAS	Hg-CV42	13.75
K*	0.01-30	HF-HNO ₃ -HClO ₄ - AAS	K-AA62	10.00 or 6.25 + 3.75 / element
Mg*	0.01-50	HF-HNO ₃ -HClO ₄ - AAS	Mg-AA62	10.00 or 6.25 + 3.75 / element
Mg*	0.01-30	Fusion - ICPAES	Mg-ICP81	12.50 or 8.75 + 3.75 / element
Mn*	0.01-50	Aqua Regia - AAS	Mn-AA46	8.25 or 4.50 + 3.75 / element

* Element generally reported as oxide.

** Range in ppm.

Analyte	Range (%)	Description	Code	Price per Sample (\$)
Mn*	0.01-50	HF-HNO ₃ -HClO ₄ - AAS	Mn-AA62	10.00 or 6.25 + 3.75 / element
Mn*	0.01-30	Fusion - ICPAES	Mn-ICP81	12.50 or 8.75 + 3.75 / element
Mo	0.001-10	Aqua Regia - AAS	Mo-AA46	8.25 or 4.50 + 3.75 / element
Mo	0.001-10	HF-HNO ₃ -HClO ₄ - AAS	Mo-AA62	10.00 or 6.25 + 3.75 / element
Na*	0.001-30	HF-HNO ₃ -HClO ₄ - AAS	Na-AA62	10.00 or 6.25 + 3.75 / element
Ni	0.01-50	Aqua Regia - AAS	Ni-AA46	8.25 or 4.50 + 3.75 / element
Ni	0.01-50	HF-HNO ₃ -HClO ₄ - AAS	Ni-AA62	10.00 or 6.25 + 3.75 / element
Ni	0.005-30	Fusion - ICPAES	Ni-ICP81	12.50 or 8.75 + 3.75 / element
P*	0.01-50	HF-HNO ₃ -HClO ₄ - ICPAES	P-ICP62	15.00
Pb	0.01-30	Aqua Regia - AAS	Pb-AA46	8.25 or 4.50 + 3.75 / element
Pb	0.01-30	HF-HNO ₃ -HClO ₄ - AAS	Pb-AA62	10.00 or 6.25 + 3.75 / element
Pb	0.01-30	Fusion - ICPAES	Pb-ICP81	12.50 or 8.75 + 3.75 / element
Pb	0.01-10	Nonsulfide - ICPAES or AAS	Pb-AA06	12.50
S	0.01-50	Total Sulfur - Leco	S-IR08	10.00
S	0.01-100	Elemental Sulfur - grav	S-GRA07	25.00
S	0.01-10	Sulfide S by Leco	S-IR07	22.50
Sb	0.01-100	KClO ₃ -HCl - ICPAES or AAS	Sb-AA08	15.00
Si*	0.01-100	Fusion - ICPAES	Si-ICP81	12.50 or 8.75 + 3.75 / element
Sn	0.01-60	Fusion - XRF	Sn-XRF10	15.00 or 11.25 + 3.75 / element
Sr	0.01-20	HF-HNO ₃ -HClO ₄ - AAS	Sr-AA62	10.00 or 6.25 + 3.75 / element
Ti*	0.01-50	Fusion - ICPAES	Ti-ICP81	12.50 or 8.75 + 3.75 / element
V	0.01-30	HF-HNO ₃ -HClO ₄ - AAS	V-AA62	10.00 or 6.25 + 3.75 / element
W*	0.01-50	Pressed Pellet - XRF	W-XRF10	15.00 or 11.25 + 3.75 / element
Zn	0.01-30	Aqua Regia - AAS	Zn-AA46	8.25 or 4.50 + 3.75 / element
Zn	0.01-30	HF-HNO ₃ -HClO ₄ - AAS	Zn-AA62	10.00 or 6.25 + 3.75 / element
Zn	0.01-30	Fusion - ICPAES	Zn-ICP81	12.50 or 8.75 + 3.75 / element
Zn	0.01-10	Nonsulfide - ICPAES or AAS	Zn-AA07	12.50
Zr	0.01-50	Fusion - XRF	Zr-XRF10q	15.00 or 11.25 + 3.75 / element

* Element generally reported as oxide.

** Range in ppm.

Description: Sodium peroxide fusion, acid dissolution followed by ICPAES.

Analytes and Ranges (ppm)				Code	Price per Sample (\$)
Al (0.01-30)	Cu (0.005-30)	Ni (0.005-30)	Zn (0.01-30)	ME-ICP81	25.00
As (0.01-10)	Fe (0.05-60)	Pb (0.01-30)	Zr (0.01-30)		
Ca (0.01-30)	K (0.1-30)	S (0.01-60)			
Co (0.002-30)	Mg (0.01-30)	Si (0.01-30)			
Cr (0.01-30)	Mn (0.01-30)	Ti (0.01-50)			

WHOLE ROCK GEOCHEMISTRY

The analysis of all the major oxides in a geological matrix is referred to as 'whole rock analysis', because the expectation is that for non-mineralized rocks, the sum of the major oxides should be close to 100% of the total composition of the sample. XRF is an instrumental technique widely used for whole rock analysis. For high precision whole rock analysis we use XRF (code ME-XRF06) or ICPAES (code ME-ICP06) and report the major and minor elements as oxides. Loss on Ignition is also reported.

Description: All elements by lithium borate fusion and XRF.

Analytes and Ranges (%)				Code	Price per Sample (\$)
SiO ₂ (0.01-100)	MgO (0.01-100)	TiO ₂ (0.01-100)	BaO (0.01-100)	ME-XRF06	32.00
Al ₂ O ₃ (0.01-100)	Na ₂ O (0.01-100)	MnO (0.01-100)	LOI (0.01-100)		
Fe ₂ O ₃ (0.01-100)	K ₂ O (0.01-100)	P ₂ O ₅ (0.01-100)			
CaO (0.01-100)	Cr ₂ O ₃ (0.01-100)	SrO (0.01-100)			

Description: All elements by lithium borate fusion* and ICPAES.

Analytes and Range (%)				Code	Price per Sample (\$)
SiO ₂ (0.01-100)	MgO (0.01-100)	TiO ₂ (0.01-100)	BaO (0.01-100)	ME-ICP06	32.00
Al ₂ O ₃ (0.01-100)	Na ₂ O (0.01-100)	MnO (0.01-100)	LOI (0.01-100)		
Fe ₂ O ₃ (0.01-100)	K ₂ O (0.01-100)	P ₂ O ₅ (0.01-100)			
CaO (0.01-100)	Cr ₂ O ₃ (0.01-100)	SrO (0.01-100)			

* For samples that are high in sulfides, we may substitute a Na₂O₂ fusion in order to obtain better results.

RARE EARTH GEOCHEMISTRY

ICPMS has made it possible to determine rare earth elements to detection limits that allow the geologist to measure the degree of rare earth fractionation in a rock, thus assisting him or her in determining its genesis. In order to help you interpret the data, we can provide chondrite normalised rare earth plots at additional cost.

Description: 17 elements by lithium metaborate fusion and ICPMS.

Analytes and Ranges (ppm)				Code	Price per Sample (\$)
Ce (0.5-10,000)	Ho (0.1-1,000)	Pr (0.1-1,000)	Tm (0.1-1,000)	ME-MS82	25.00
Dy (0.1-1,000)	La (0.5-10,000)	Sm (0.1-1,000)	U (0.5-1,000)		
Er (0.1-1,000)	Lu (0.1-1,000)	Tb (0.1-1,000)	Y (0.5-1,000)		
Eu (0.1-1,000)	Nd (0.5-10,000)	Th (1-1,000)	Yb (0.1-1,000)		
Gd (0.1-1,000)					

Specific Gravity - Bulk Sample

ALS Chemex Method Code OA-GRA08

SCOPE

This method is suitable for the determination of specific gravity in bulk samples. The weight of a sample in air and the sample in water are recorded and from these values the density of a sample in relation to water is calculated as a ratio.

REAGENTS

Water

EQUIPMENT

4-decimal place balance with option to weigh from below
Container to hold water

PROCEDURE

- 1) Tie string around sample and weigh sample in air.
- 2) Attach string to balance and submerge sample entirely in water without letting it touch any wall of the container.
- 3) Wait for all bubbles to stop and then record weight.
- 4) Calculate Specific Gravity:

CALCULATIONS:

$$S.G. = \frac{\text{Weight in air (g)}}{\text{Weight in air (g)} - \text{Weight in water (g)}}$$

*Note: A constant temperature must be maintained for the water used



APPENDIX 6

Photographs





Photo 1. Secure drill core and sample storage facilities of East West Resource Corp., Thunder Bay, Ontario.



Photo 2. Secure drill core and sample storage, and core logging and preparation facilities of East West Resource Corp., Thunder Bay, Ontario.



Photo 3. Drill hole "O", 2002 East West Resource Corp. drilling. Note the massive sulphide veins of chalcopyrite and pyrrhotite-pentlandite. Dollar coin is for scale (25 mm diameter).



Photo 4. Drill hole "O", 2002 East West Resource Corp. drilling. Close-up of chalcopyrite vein with secondary pyrite (central area). Dollar coin is for scale (25 mm diameter).



Photo 5. Drill hole "NL04-04", 2004 Cascadia International Resources Inc. drilling. Interstitial, disseminated and vein sulphide (chalcopyrite, pyrrhotite and pentlandite). Dollar coin is for scale (25 mm diameter).



Photo 6. Drill hole "NL04-04", 2004 Cascadia International Resources Inc. drilling. Felsic dike cutting massive to foliated gabbro. Dollar coin is for scale (25 mm diameter).



Photo 7. Drill hole "NL04-07", 2004 Cascadia International Resources Inc. drilling. Interstitial, disseminated and vein sulphide (chalcopyrite, pyrrhotite and pentlandite). Dollar coin is for scale (25 mm diameter).



Photo 8. Drill hole "NL04-07", 2004 Cascadia International Resources Inc. drilling. Close-up of interstitial and disseminated sulphide (chalcopyrite, pyrrhotite and pentlandite). The edge of the dollar coin is for scale (about 11 mm).



Photo 9. Drill hole "NL04-09e", 2005 Cascadia International Resources Inc. drilling. Gabbro breccia with sulphide matrix (durchbewegung texture) of pyrrhotite, pentlandite and subordinate chalcopyrite. Dollar coin is for scale (25 mm diameter).



Photo 10. Drill hole "NL04-09e", 2005 Cascadia International Resources Inc. drilling. Foliated gabbro with sulphide (pyrrhotite, pentlandite, chalcopyrite) parallel and cross-cutting foliation. Dollar coin is for scale (25 mm diameter).



Photo 11. Drill hole “NL05-12”, 2005 Cascadia International Resources Inc. drilling. Typical massive to locally foliated host gabbro of the Norton Lake intrusion with trace sulphide. Dollar coin is for scale (25 mm diameter).



Photo 12. Drill hole “NL05-12”, 2005 Cascadia International Resources Inc. drilling. A-typical laminated massive sulphide (pyrrhotite, pentlandite, chalcopyrite) in contrast to typical massive sulphide. Dollar coin is for scale (25 mm diameter).



Photo 13. Drill hole "NL05-22", 2005 Cascadia International Resources Inc. drilling. Gabbro breccia with sulphide matrix (durchbewegung texture) of pyrrhotite, pentlandite and chalcopyrite. Dollar coin is for scale (25 mm diameter).



Photo 14. Drill hole "U-4", 1981 Wasabi resources Ltd. drilling. Mineralized section (~50 ft) of stringer and disseminated sulphide in gabbro and associated iron formation. Dollar coin is for scale (25 mm diameter).



APPENDIX 7

Quality Assurance/Quality Control





October 2005 QAQC Assays

New Ticket	DDH	From	To	Original ALS Result (During Programs)					
				Au (ppb)	Pt (ppb)	Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)
639001	NL04-01	210.71	211.72	13	34	168	4220	8010	215
639002	NL04-01	211.72	212.75	15	89	463	8480	2430	287
639003	NL04-02	236.53	237.53	36	95	549	8170	8660	258
639004	NL04-02	240.79	241.8	29	54	174	2950	1645	174
639005	NL04-03	180.35	180.44	51	0	384	4160	5210	154
639006	NL04-04	151.06	151.43	85	26	158	3190	5290	166
639007	NL04-05	186.92	187.45	89	120	248	4000	11600	233
639008	NL04-05	189.45	190.46	23	68	246	2990	2500	173
639009	NL04-05	190.73	191.43	60	110	346	3610	6310	192
639011	NL04-06	209.95	210.95	16	104	218	3340	2020	160
639012	NL04-06	210.95	211.96	46	167	461	8260	6250	941
639013	NL04-07	85.54	86.56	46	74	252	3370	7900	205
639014	NL04-07	90.53	91.03	10	19	198	3520	4940	154
639015	NL04-07	91.03	92.05	40	43	551	8320	8910	361
639016	NL04-07	92.97	94.11	10	0	128	2820	3870	140
639017	NL04-08	114.82	115.83	45	116	306	4330	16600	450
639018	NL04-08	116.89	117.35	156	33	251	3210	11800	150
639019	NL04-09	183.92	185	13	47	200	2890	1970	294
639021	NL05-10	311.12	312.12	92	280	296	3350	3940	170
639022	NL05-10	312.12	313.18	39	141	207	2850	1905	140
639023	NL05-10	313.18	314.18	34	198	346	4430	3690	190
639024	NL05-10	314.18	315.1	16	118	298	4240	4410	178
639025	NL05-10	317.1	318.1	30	700	507	8200	14100	377
639026	NL05-10	318.91	319.91	23	90	521	8040	11800	379
639027	NL05-11	172.48	173.48	15	952	177	3500	564	178
639028	NL05-12	315	316	27	43	385	7500	3510	286
639029	NL05-12	316	317	39	126	342	2990	5940	120
639031	NL05-12	317	318	13	68	241	2760	15400	100
639032	NL05-13	338.42	339.42	19	59	273	3820	4320	156
639033	NL05-13	339.42	340.17	14	370	483	7660	12100	292
639034	NL05-13	340.85	341.35	93	46	237	3480	6980	153
639035	NL05-13	341.35	342.25	21	256	255	2790	6070	175
639036	NL05-14	334.39	335.4	121	97	150	3630	9690	26
639037	NL05-16	218.4	219.05	15	129	275	3350	7940	132
639038	NL05-16	219.05	219.81	32	90	469	8030	4620	283
639039	NL05-16	222.81	223.7	28	3800	523	8120	10900	352
639041	NL05-17	238.8	239.8	20	24	439	8350	35200	482
639042	NL05-18	265.52	266.6	23	29	154	2810	1535	134
639043	NL05-19	213.33	214.33	218	110	694	8500	30900	371
639044	NL05-20	239.96	240.96	1005	210	359	4230	5980	352
639045	NL05-20	240.96	242.26	32	118	224	3000	4210	138
639046	NL05-20	249.13	250.13	88	124	168	3030	9200	323
639047	NL05-22	174.56	175.53	22	583	335	4140	5610	358



New Ticket	DDH	From	To	Original ALS Result (During Programs)					
				Au (ppb)	Pt (ppb)	Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)
639048	NL05-22	177.39	178.05	35	137	465	4370	17700	260
639049	NL05-22	180.06	180.93	14	30	250	3640	4580	208

New ALS Result (CCIC Requested Oct. 2005)						Relative Percent Difference					
Au (ppb)	Pt (ppb)	Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)	Au	Pt	Pd	Ni	Cu	Co
21	33	210	4380	7730	197	-34.04	1.98	15.38	-2.50	2.36	5.74
12	69	411	8210	2110	253	14.29	16.19	7.78	2.15	9.18	8.22
40	90	493	8100	7760	232	-7.14	3.57	7.04	0.57	7.18	6.95
29	48	177	2970	1580	152	0.00	7.69	-1.14	-0.45	2.67	8.80
55	0.25	378	4290	5210	138	-5.10	200.00	1.05	-2.06	0.00	7.17
48	82	297	6290	3390	381	33.94	-83.58	45.35	48.93	27.20	-60.31
58	132	240	3920	10800	201	26.27	-6.45	2.17	1.34	4.71	9.60
25	90	231	2880	2370	150	-5.63	-19.47	4.15	2.48	3.53	9.27
56	93	320	3490	6000	171	4.55	10.86	5.14	2.24	3.33	7.57
15	124	214	3500	2040	158	4.26	-12.05	1.23	-3.14	-0.66	0.84
74	193	458	8700	6230	898	-33.73	-9.87	0.43	-3.49	0.21	3.09
40	37	246	3540	8490	190	9.09	40.00	1.60	-3.31	-4.86	5.00
14	0.25	183	3630	4840	142	-23.53	98.04	5.18	-2.06	1.36	5.33
44	43	468	8260	8290	322	-6.45	0.00	10.57	0.48	4.75	7.47
10	0.25	125	2820	3860	133	0.00	200.00	1.57	0.00	0.17	3.39
36	93	282	4080	10800	398	14.29	14.15	5.37	3.92	26.36	8.01
191	35	251	2910	10800	127	-13.92	-3.96	0.00	6.43	5.81	10.77
16	63	209	2770	1895	273	-14.29	-20.38	-2.96	2.81	2.57	4.88
92	325	307	3410	3720	161	0.00	-10.17	-2.45	-1.19	3.79	3.59
35	132	222	2920	1785	130	7.08	4.35	-4.72	-1.62	4.29	4.88
73	204	372	4440	3480	176	-55.32	-2.00	-4.89	-0.15	3.87	5.04
20	136	296	4280	4070	161	-15.38	-9.68	0.45	-0.63	5.28	6.58
35	678	456	7720	12600	321	-10.53	2.12	6.94	3.98	7.35	10.42
26	18	72	525	480	30	-8.33	72.73	80.61	90.51	94.02	88.58
13	863	182	3360	553	157	9.30	6.43	-1.87	2.70	1.31	8.19
28	45	357	7350	3260	268	-2.44	-3.05	4.97	1.34	4.86	4.29
80	129	348	2850	5470	112	-51.90	-1.57	-1.16	3.17	5.42	4.55
19	65	249	2620	15100	92	-26.67	2.99	-2.19	3.44	1.31	5.48
20	64	282	3640	4140	148	-3.45	-5.49	-2.17	3.19	2.82	3.48
16	382	458	7260	11300	279	-9.09	-2.14	3.51	3.54	4.51	3.01
84	47	234	3370	6480	145	6.67	-1.44	0.85	2.13	4.89	3.55
18	267	250	2680	5990	172	10.00	-2.82	1.32	2.66	0.88	1.15
125	81	140	3610	9870	130	-2.18	11.64	4.55	0.37	-1.23	114.29
14	136	283	3140	7860	125	4.55	-3.55	-1.92	4.27	0.67	3.60
36	100	475	6800	4020	244	-8.00	-7.14	-0.85	10.76	9.05	9.63
31	3750	521	7110	9910	322	-6.90	0.88	0.26	8.65	6.24	5.85
96	36	426	7730	32700	417	111.76	-28.57	1.99	5.08	4.85	9.41
27	40	157	2590	1510	121	-10.96	-22.45	-1.29	5.36	1.09	6.68





New ALS Result (CCIC Requested Oct. 2005)						Relative Percent Difference					
Au (ppb)	Pt (ppb)	Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)	Au	Pt	Pd	Ni	Cu	Co
308	188	667	8250	27700	360	-24.19	-38.24	2.63	1.98	7.15	2.00
350	188	384	4320	6340	338	55.51	7.24	-4.54	-1.41	-3.93	2.69
29	141	250	2970	4500	130	6.45	-12.20	-7.45	0.67	-4.49	3.94
141	144	185	3000	9430	294	-33.44	-10.20	-6.53	0.66	-1.65	6.17
16	531	349	3920	5630	330	20.00	6.13	-2.75	3.61	-0.24	5.35
51	139	448	4340	16700	251	-26.45	-0.97	2.47	0.46	3.84	2.33
13	38	242	3410	4560	186	4.88	-16.33	2.16	4.30	0.29	7.31
Average RPD:						-7.10	-9.48	1.25	2.54	5.82	3.45

Standards / Blanks Included with October 2005 QAQC Assays

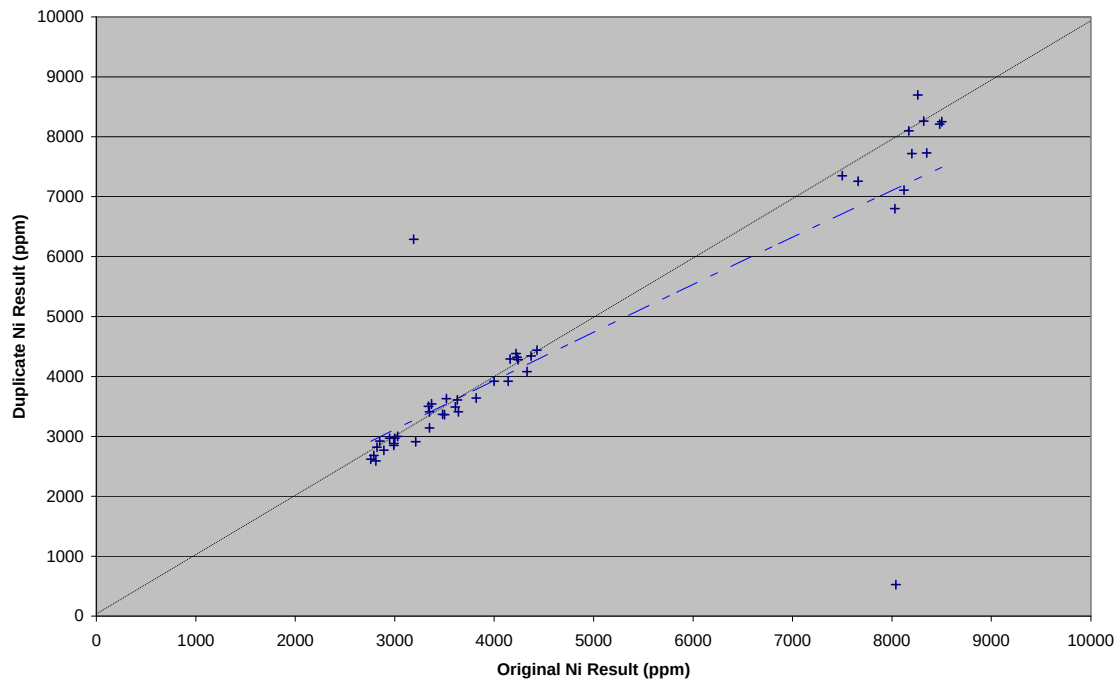
New Ticket	Sample Type	Expected				Standard Deviation			
		Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)	Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)
639010	Blank								
639020	WPR-1	235	2900	1640	180	21	400	130	15
639030	TLS-1	-	1510	780	80	-	70	50	20
639040	Blank								
639050	Blank								

ALS Result				Z-Score				Criteria	Result
Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)	Pd	Ni	Cu	Co		
1	6	11	1					<20 ppb Au, Pt, Pd; <20 ppm Ni, Cu	Pass
218	2850	1795	151	0.81	0.13	1.19	1.93	Z-Score <2 for all values	Pass
130	1315	767	48		2.79	0.26	1.60	Z-Score <2 for all values	Ni Warning
2	10	16	1					<20 ppb Au, Pt, Pd; <20 ppm Ni, Cu	Pass
0.5	5	13	1					<20 ppb Au, Pt, Pd; <20 ppm Ni, Cu	Pass

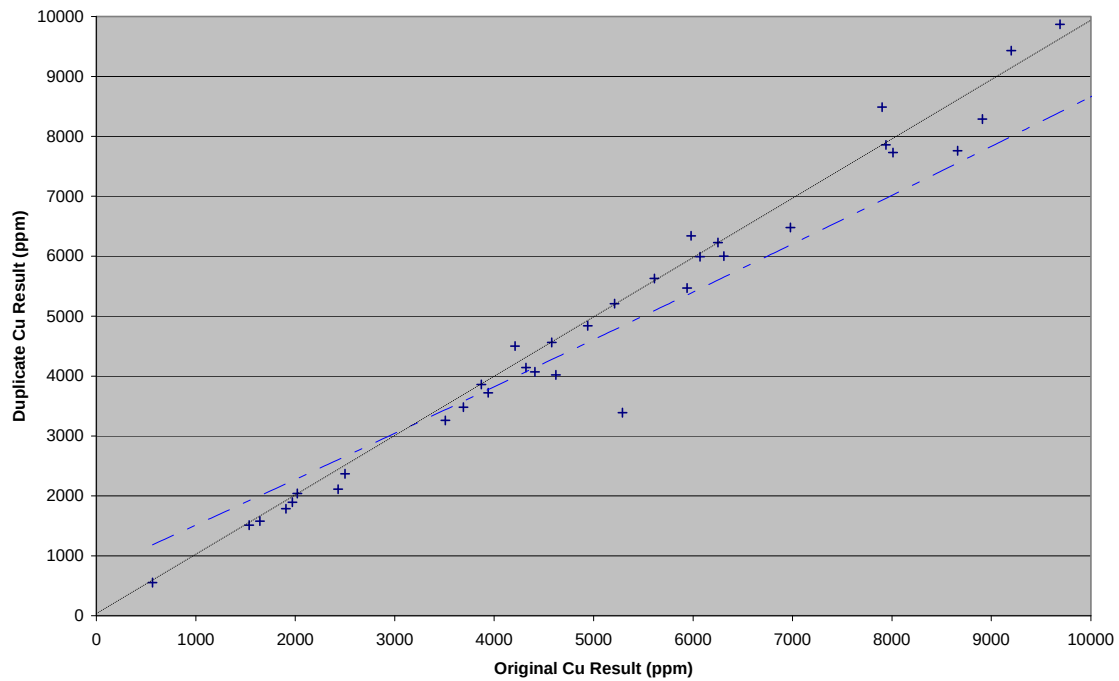


Control Charting of October 2005 QAQC Assays

Ni Scatter Plot

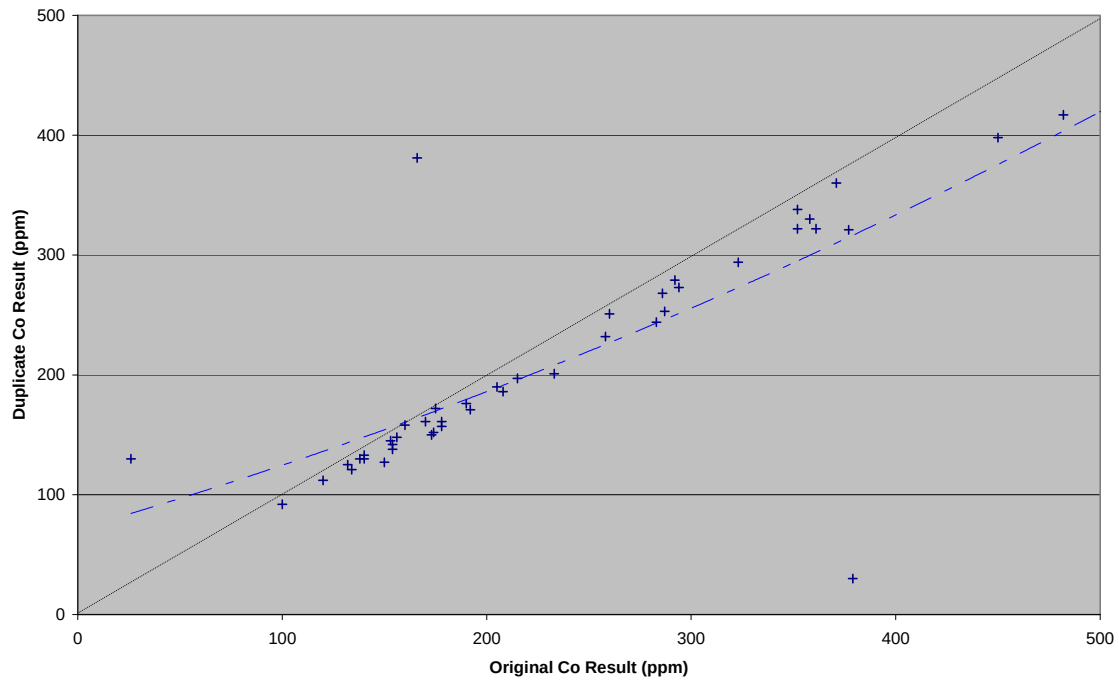


Cu Scatter Plot

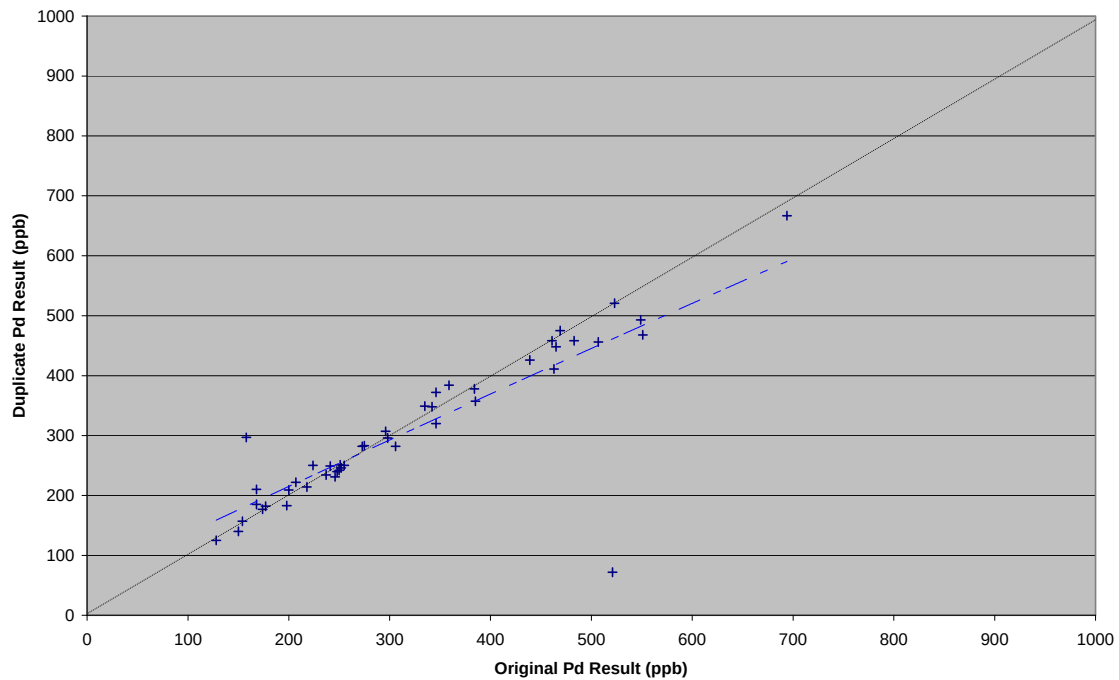




Co Scatter Plot



Pd Scatter Plot





October 2005 Infill Assays

SAMPLE	BHID	FROM	TO	Au_ppb	Pt_ppb	Pd_ppb	Ni_ppm	Cu_ppm	Co_ppm
335351	B	49.06	50.56	8	10	7	41	67	11
335352	B	50.56	51.56	0.5	8	8	43	38	12
335353	B	51.56	52.06	3	14	11	163	268	36
335354	B	65.06	65.76	2	7	6	149	72	18
335355	B	65.76	66.76	3	0.25	4	73	92	10
335356	D	79.32	80.32	6	11	20	34	110	10
335357	D	80.32	81.15	82	377	939	863	811	151
639201	D	81.72	82	321	439	1260	1295	4300	189
335359	E	51.56	52.56	97	14	61	585	383	41
335360	E	52.56	53.56	44	8	66	587	517	40
335361	NL04-01	206.66	207.88	19	21	32	169	339	24
335362	NL04-01	213.97	215.07	30	25	98	590	527	39
335363	NL04-02	225.67	226.52	1	9	7	45	58	14
335364	NL04-02	230.13	230.93	2	11	8	52	63	15
335365	NL04-02	230.93	231.7	58	24	42	187	590	29
335366	NL04-02	231.88	232.88	12	12	13	56	206	12
335367	NL04-02	232.88	233.88	35	40	79	192	1170	19
335368	NL04-02	233.88	234.78	63	36	170	197	802	38
335369	NL04-02	241.8	242.8	31	18	110	560	643	40
335370	NL04-02	242.8	243.91	17	11	66	485	493	33
335371	NL04-02	243.91	244.91	3	0	4	86	40	14
335372	NL04-03	170.07	171.07	0.5	9	7	49	82	16
335373	NL04-03	171.07	172.07	2	12	23	99	225	17
335374	NL04-03	172.07	172.57	2	0.25	10	189	118	9
335376	NL04-03	179.5	180.35	1	0.25	2	79	70	13
335377	NL04-03	180.44	181.04	0.5	5	2	76	8	11
335378	NL04-03	181.04	182.04	2	5	2	78	47	14
335379	NL04-04	155.05	155.55	5	0.25	6	54	1175	7
335380	NL04-04	155.55	156.55	2	0.25	2	69	473	5
335381	NL04-05	182.12	183.12	35	9	27	255	745	18
335382	NL04-05	183.12	184.12	9	14	35	100	264	14
335383	NL04-05	184.12	185.24	10	12	12	75	168	24
335384	NL04-05	185.24	186.24	10	15	22	88	250	20
335385	NL04-05	186.33	186.46	10	81	79	500	1960	40
335386	NL04-05	190.61	190.73	1	0.25	0.5	48	91	14
335387	NL04-05	193.86	185.24	0.5	5	3	56	36	10
335388	NL04-05	195.24	196.45	5	0.25	2	101	71	13
335389	NL04-06	205.58	207.08	11	11	12	69	242	20
335400	NL04-06	207.08	208.58	16	34	71	660	544	43
335391	NL04-06	208.67	208.94	80	74	134	2200	1255	118
335392	NL04-06	215.8	217.3	21	12	56	372	264	31
335393	NL04-06	217.3	218.8	10	9	46	317	355	23
335394	NL04-07	83.5	84.5	11	16	33	141	268	19
335395	NL04-07	84.5	85	11	22	33	156	257	23



SAMPLE	BHID	FROM	TO	Au_ppb	Pt_ppb	Pd_ppb	Ni_ppm	Cu_ppm	Co_ppm
335396	NL04-07	96.32	96.82	6	0.25	6	160	87	23
335397	NL04-07	96.82	97.82	1	0.25	3	138	199	32
335398	NL04-08	113.27	113.69	2	11	9	35	111	10
335399	NL04-08	125.88	126.88	6	0.25	13	126	122	16
638951	NL04-08	126.88	127.88	3	0.25	2	97	48	13
638952	NL04-09	171.6	172.6	15	41	70	395	426	34
638953	NL04-09	172.6	173.1	26	50	138	1040	568	47
638954	NL05-10	309.25	310.25	1	0.25	4	58	38	17
638955	NL05-10	310.25	311.1	0.5	0.25	2	47	46	11
638956	NL05-16	113.44	114.5	417	1155	1945	1800	3920	30
639202	NL05-16	114.5	115.5	39	117	178	572	1020	41
638958	NL05-16	115.5	116.5	57	81	176	436	1175	24
638959	NL05-16	226.7	227.6	114	94	265	2660	1855	131
638960	NL05-16	227.6	228.6	15	56	177	1900	1315	87
638996	NL05-16	228.6	229.6	3	0.25	11	1080	841	56
638961	NL05-17	232.64	233.64	0.5	5	4	63	54	15
638962	NL05-17	233.64	234.64	0.5	0.25	0.5	59	76	19
638964	NL05-17	248.5	249.5	28	43	133	1135	864	57
638965	NL05-17	249.5	250.5	54	14	77	391	920	20
638963	NL05-17	274.5	248.5	36	51	134	1545	1020	68
638966	NL05-18	245.4	246.4	0.5	0.25	1	67	85	22
638967	NL05-18	246.4	247.4	0.5	5	1	39	49	13
638997	NL05-18	263.54	263.78	18	18	131	140	150	8
638998	NL05-18	264.73	265.5	3	0.25	2	20	37	1
638968	NL05-18	266.6	267.6	5	12	67	1225	940	60
638969	NL05-18	267.6	269.1	3	14	33	507	273	27
638970	NL05-19	203.84	205.33	1	0.25	2	48	87	18
638971	NL05-19	205.33	206.63	0.5	9	18	148	119	20
638972	NL05-19	219.3	220.3	16	35	87	1125	1135	49
638973	NL05-19	220.3	221.65	19	19	51	658	937	34
638974	NL05-20	237.45	238	0.5	0.25	2	70	90	20
638976	NL05-20	250.13	251.13	78	55	147	1290	1810	45
638977	NL05-20	251.13	252.63	20	31	133	1155	839	37
638978	O	44.77	46.27	7	10	8	79	153	18
638979	O	46.27	47.27	4	10	15	142	114	23
638980	O	60.74	61.59	13	0.25	15	61	121	6
638981	O	61.74	62.7	1	0.25	10	50	9	7
638982	P	61.53	62.53	8	95	124	1050	1835	47
638983	P	62.53	63.03	41	77	200	978	7250	151
638984	Q	78.76	80.26	5	7	8	36	134	11
638985	Q	80.26	81.26	6	11	23	71	224	13
638999	Q	90.3	90.94	3	0.25	2	15	14	1
638986	S	22.7	23.9	15	38	50	247	349	18
638987	S	23.9	24.9	19	36	131	1265	762	71
638988	S	42	43	23	42	261	1990	1870	78
639000	S	43	44.1	25	27	152	1315	1555	62



SAMPLE	BHID	FROM	TO	Au_ppb	Pt_ppb	Pd_ppb	Ni_ppm	Cu_ppm	Co_ppm
638990	T	40.07	41.25	20	26	98	510	427	38
638991	T	41.25	42.25	16	23	36	321	225	24
638992	U	23.36	24.86	11	8	9	80	189	16
638993	U	24.86	25.86	59	39	47	87	1155	16
638994	U	38.34	39.34	90	126	321	923	2660	31
638995	U	39.34	40.84	161	45	166	517	1485	26

Standards / Blanks Included with October 2005 Infill Assays

New Ticket	Sample Type	Expected Value				Standard Deviation			
		Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)	Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)
335358	TLS-1	-	1510	780	80	-	70	50	20
335375	Blank								
335390	WPR-1	235	2900	1640	180	21	400	130	15
638957	TLS-1	-	1510	780	80	-	70	50	20
638975	Blank								
638989	WPR-1	235	2900	1640	180	21	400	130	15
639203	Blank								

ALS Result				Z-Score				Criteria	Result
Pd (ppb)	Ni (ppm)	Cu (ppm)	Co (ppm)	Pd	Ni	Cu	Co		
158	1335	797	52	-2.50	0.34	-1.40		Z-Score <2 for all values	Ni Warning
0.5	0.5	3	0.5					<20 ppb Au, Pt, Pd; <20 ppm Ni, Cu	Pass
239	2900	1765	43	0.19	0.00	0.96	-9.13	Z-Score <2 for all values	Pass
138	1265	785	49	-3.50	0.10	-1.55		Z-Score <2 for all values	<3 SD Out; 17.7% RPD = ok
0.5	1	4	1					<20 ppb Au, Pt, Pd; <20 ppm Ni, Cu	Pass
248	2910	1720	160	0.62	0.03	0.62	-1.33	Z-Score <2 for all values	Pass
0.5	2	4	1					<20 ppb Au, Pt, Pd; <20 ppm Ni, Cu	Pass



APPENDIX 8

Resource Estimate Parameters





Datamine Estimation Parameters

	VALUE_IN (A6)	VALUE_OUT (A6)	NUMSAM_F (A6)	SVOL_F (A6)	VAR_F (A6)	MINDIS_F (A6)	SREFNUM (N)	IMETHOD (N)	POWER (N)	ADDOCON (N)	VREFNUM (N)	KRIGESW (N)	KRIGVARS (N)
Ni	ppm		NUMSAM	SVOL	KVAR		1	3	2	0	1	0	1
Cu	ppm		NUMSAM	SVOL	KVAR		2	3	2	0	2	0	1
Co	ppm		NUMSAM	SVOL	KVAR		3	3	2	0	3	0	1
Pd	ppb		NUMSAM	SVOL	KVAR		4	3	2	0	4	0	1

Datamine Search Parameters

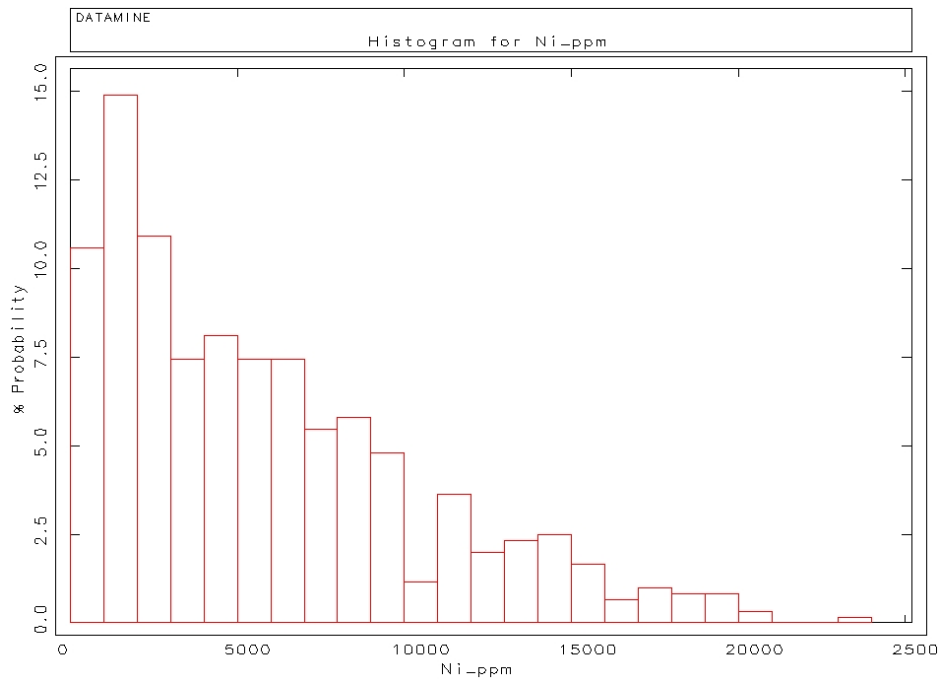
	SREFNUM (N)	SMETHOD (N)	SDIST1 (N)	SDIST2 (N)	SDIST3 (N)	SANGLE1 (N)	SANGLE2 (N)	SAXIST (N)	SAXIS2 (N)	MINOCCT (N)	MINPEROC (N)	MAXPEROC (N)	MINNUM1 (N)	MAXNUM1 (N)	SVOLFAC2 (N)	MINNUM2 (N)	MAXNUM2 (N)	SVOLFAC3 (N)	MINNUM3 (N)	MAXNUM3 (N)
Ni	1	2	6976987	5693999	392	340	60	3	1	2	1	4	10	20	1.5	10	20	5	1	20
Cu	2	2	60	5798	391	340	60	3	1	2	1	4	10	20	1.5	10	20	5	1	20
Co	3	2	2592	2592	1146	340	60	3	1	2	1	4	10	20	1.5	10	20	5	1	20
Pd	4	2	3440002	3440002	517	340	60	3	1	2	1	4	10	20	1.5	10	20	5	1	20

Datamine Variogram Model Parameters

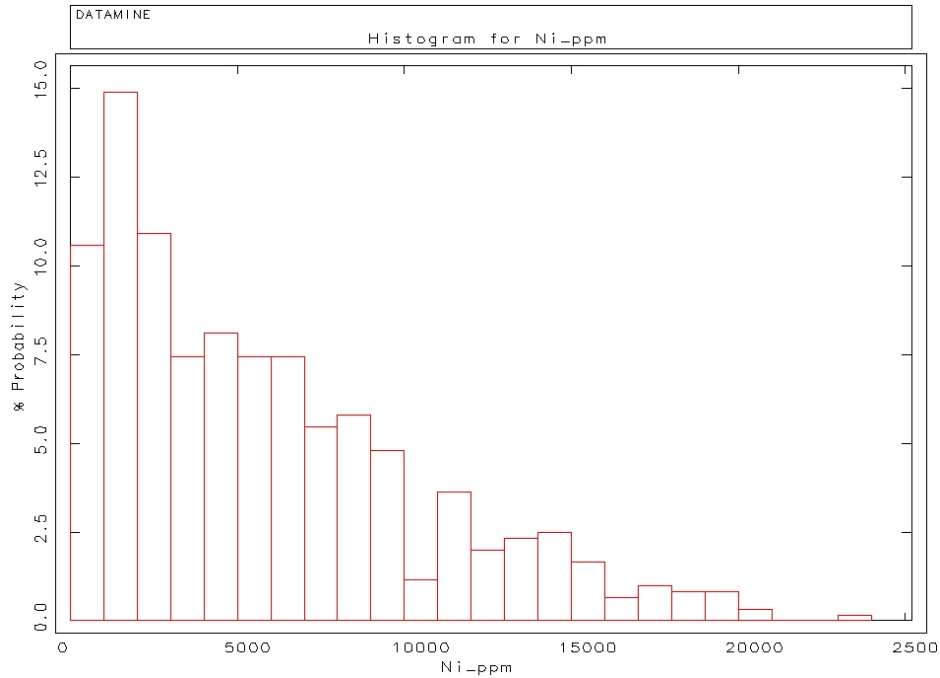
	VREFNUM (N)	VANGLE1 (N)	VANGLE2 (N)	VANGLE3 (N)	VAXIS1 (N)	VAXIS2 (N)	VAXIS3 (N)	NUGGET (N)	ST1 (N)	STIPAR1 (N)	STIPAR2 (N)	STIPAR3 (N)	STIPAR4 (N)	ST2 (N)	ST2PAR1 (N)	ST2PAR2 (N)	ST2PAR3 (N)	ST2PAR4 (N)
Ni	1	340	60	0	3	1	3	0.02	1	35.029999	32.630002	4.9	0.53	1	87.209999	71.18	4.9	0.45
Cu	2	340	60	0	3	1	3	0.1	1	32.750001	32	3.32	0.8	1	75	72.470001	4.89	0.1
Co	3	340	60	0	3	1	3	0.02	1	21.389999	21	4.89	0.86	1	32.389999	32.389999	14.32	0.32
Pd	4	340	60	0	3	1	3	0.03	1	35.540001	35.540001	4.5	0.68	1	43	6.46	0.28	0.28



Histogram of Uncomposited Samples within Model - Nickel

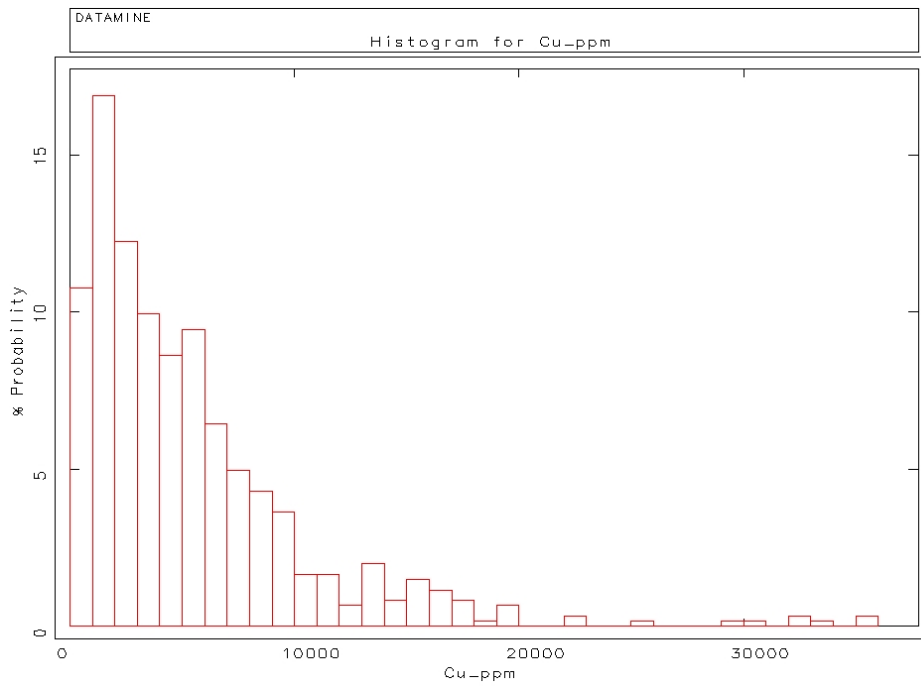


Histogram of Composited Samples within Model - Nickel

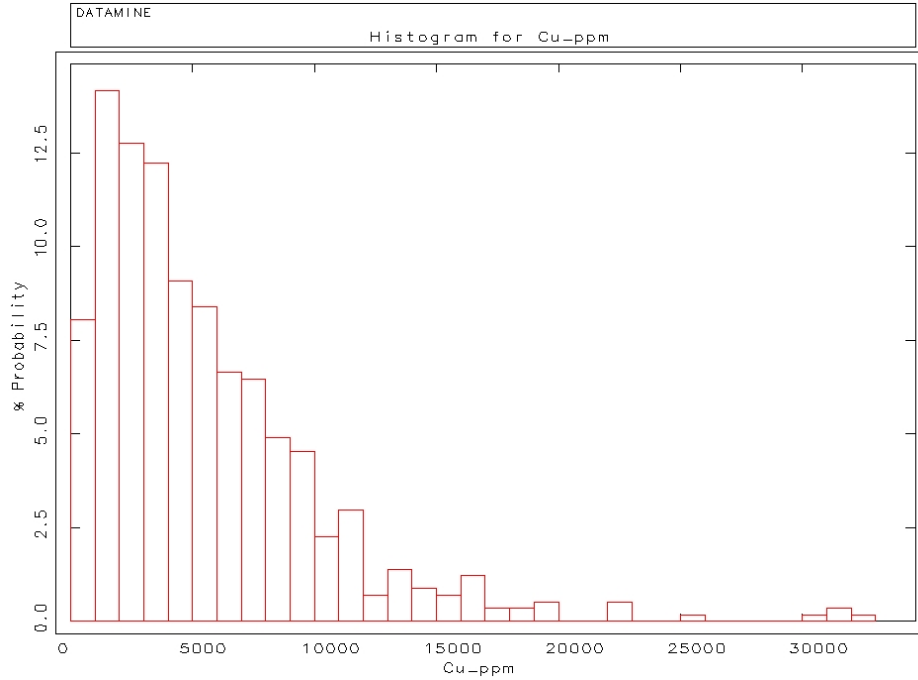




Histogram of Uncomposed Samples within Model - Copper

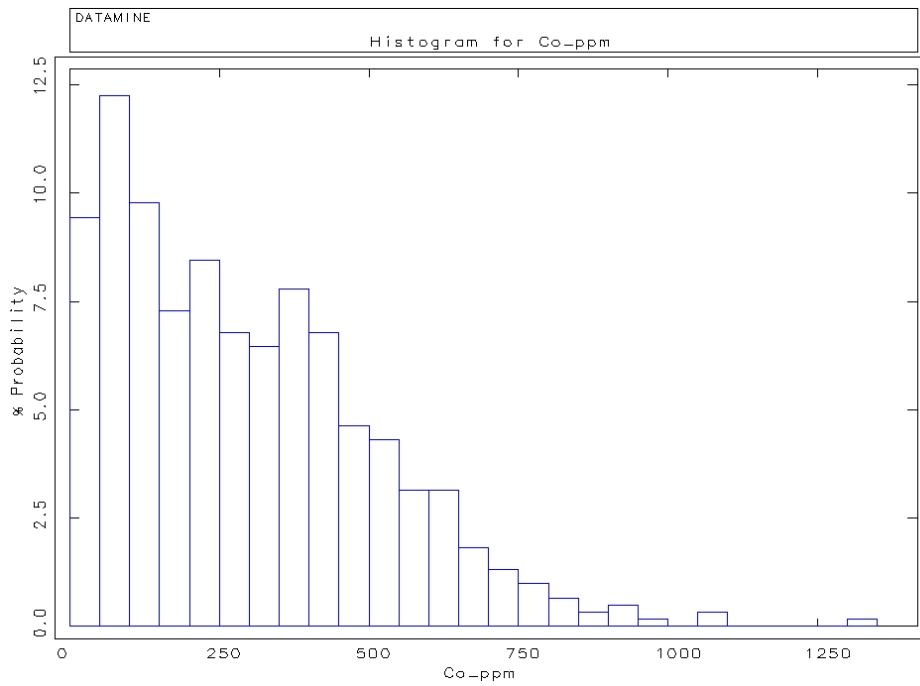


Histogram of Composited Samples within Model - Copper

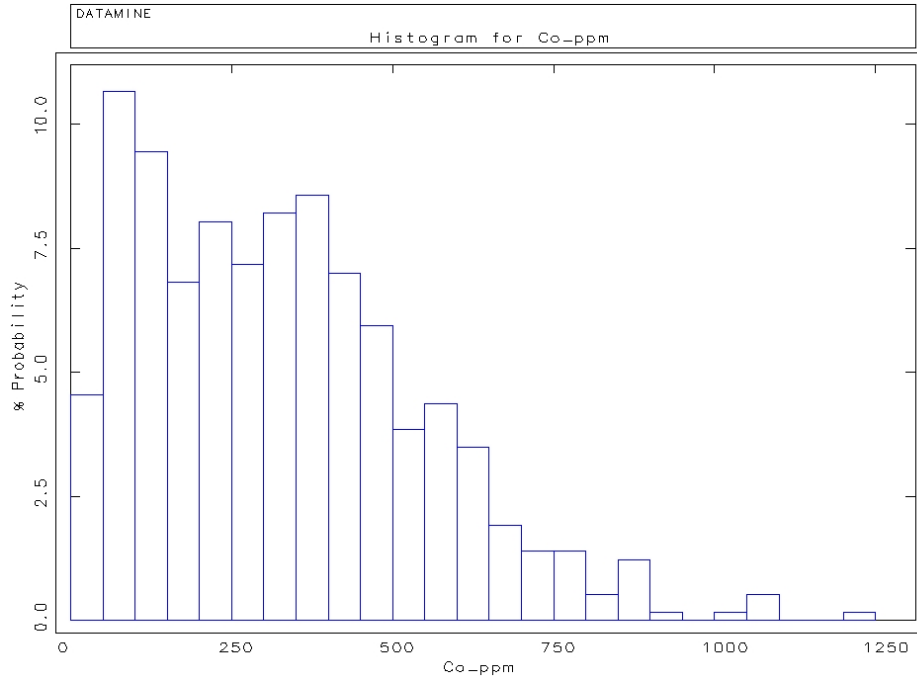




Histogram of Uncomposited Samples within Model - Cobalt

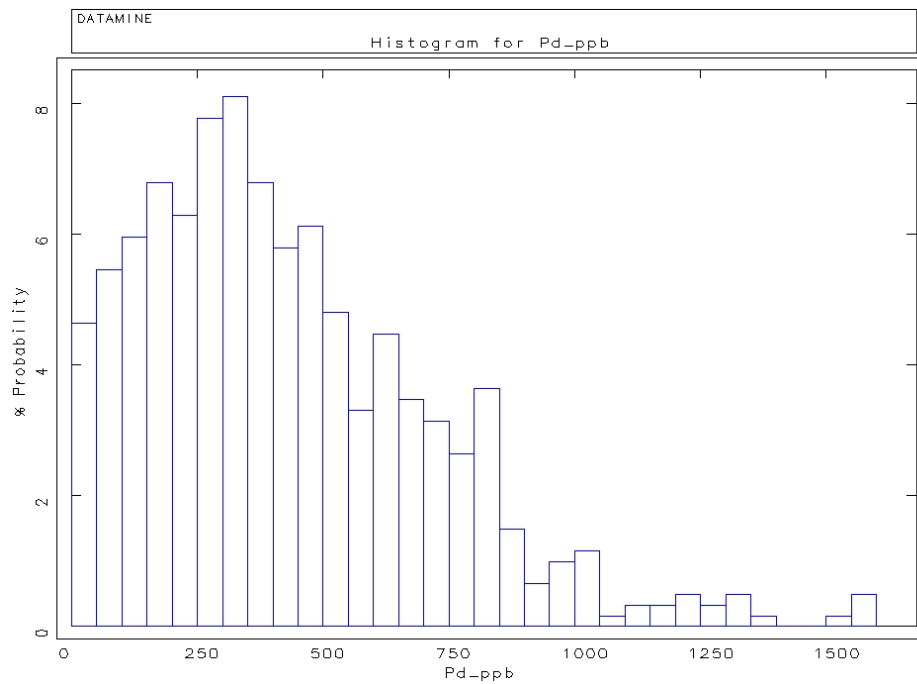


Histogram of Composited Samples within Model - Cobalt

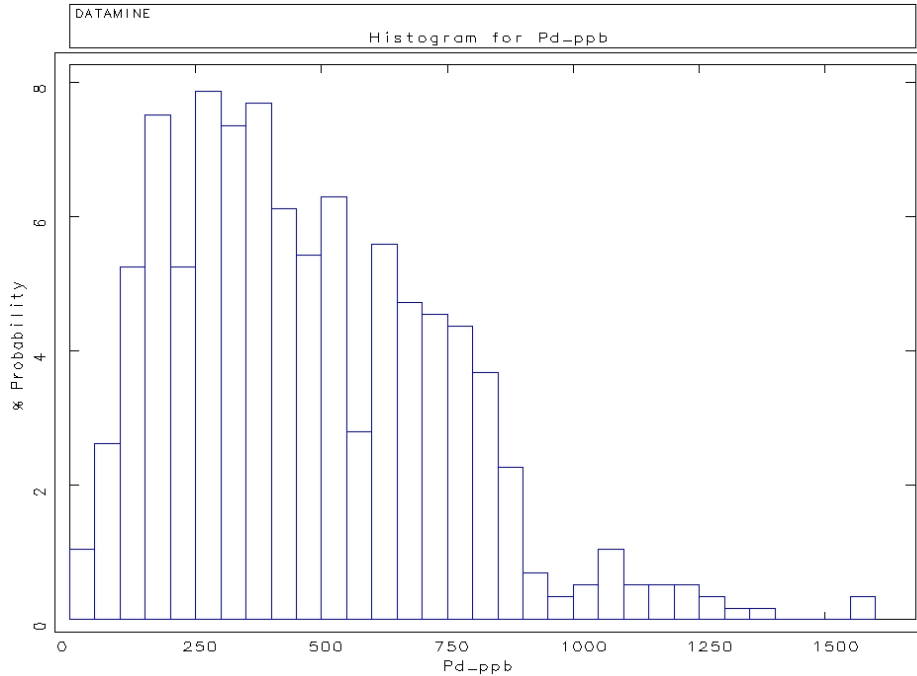




Histogram of Uncomposed Samples within Model - Palladium



Histogram of Composited Samples within Model - Palladium





Ni Statistics for Composited Sample File

TOTAL NUMBER OF RECORDS	562
NUMBER OF SAMPLES	562
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	562
MAXIMUM	21151.9492
MINIMUM	0.5000
RANGE	21151.4492
TOTAL	3603037.8424
MEAN	6411.0994
VARIANCE	0.2053E+08
STANDARD DEVIATION	4531.
STANDARD ERROR	191.1
SKEWNESS	0.8315
KURTOSIS	0.1269
GEOMETRIC MEAN	3897.3084
SUM OF LOGS	4646.6393
MEAN OF LOGS	8.2680
LOGARITHMIC VARIANCE	2.8718
LOG ESTIMATE OF MEAN	16382.2730

Ni Statistics for Estimated Block Model

TOTAL NUMBER OF RECORDS	11295
NUMBER OF SAMPLES	11295
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	11295
MAXIMUM	15188.0010
MINIMUM	767.1320
RANGE	14420.8690
TOTAL	73941446.5061
MEAN	6546.3875
VARIANCE	0.3424E+07
STANDARD DEVIATION	1850.
STANDARD ERROR	17.41
SKEWNESS	0.3150
KURTOSIS	0.4099
GEOMETRIC MEAN	6268.3922
SUM OF LOGS	98755.2930
MEAN OF LOGS	8.7433
LOGARITHMIC VARIANCE	0.0934
LOG ESTIMATE OF MEAN	6568.1849



Cu Statistics for Composited Sample File

TOTAL NUMBER OF RECORDS	562
NUMBER OF SAMPLES	562
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	562
MAXIMUM	32100.0000
MINIMUM	0.5000
RANGE	32099.5000
TOTAL	3148212.4509
MEAN	5601.8015
VARIANCE	0.2238E+08
STANDARD DEVIATION	4731.
STANDARD ERROR	199.6
SKEWNESS	2.061
KURTOSIS	6.610
GEOMETRIC MEAN	3323.8366
SUM OF LOGS	4557.1878
MEAN OF LOGS	8.1089
LOGARITHMIC VARIANCE	2.7939
LOG ESTIMATE OF MEAN	13437.7484

Cu Statistics for Estimated Block Model

TOTAL NUMBER OF RECORDS	11295
NUMBER OF SAMPLES	11295
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	11295
MAXIMUM	14817.3750
MINIMUM	835.6368
RANGE	13981.7382
TOTAL	67214459.0640
MEAN	5950.8153
VARIANCE	0.4093E+07
STANDARD DEVIATION	2023.
STANDARD ERROR	19.04
SKEWNESS	0.5066
KURTOSIS	0.3255E-01
GEOMETRIC MEAN	5601.3202
SUM OF LOGS	97484.4071
MEAN OF LOGS	8.6308
LOGARITHMIC VARIANCE	0.1273
LOG ESTIMATE OF MEAN	5969.4383



Co Statistics for Composited Sample File

TOTAL NUMBER OF RECORDS	562
NUMBER OF SAMPLES	562
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	562
MAXIMUM	1223.9420
MINIMUM	0.5000
RANGE	1223.4420
TOTAL	178824.2054
MEAN	318.1925
VARIANCE	0.4723E+05
STANDARD DEVIATION	217.3
STANDARD ERROR	9.168
SKEWNESS	0.7978
KURTOSIS	0.6380
GEOMETRIC MEAN	210.2114
SUM OF LOGS	3005.6399
MEAN OF LOGS	5.3481
LOGARITHMIC VARIANCE	1.6801
LOG ESTIMATE OF MEAN	486.9390

Co Statistics for Estimated Block Model

TOTAL NUMBER OF RECORDS	11295
NUMBER OF SAMPLES	11295
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	11295
MAXIMUM	727.1225
MINIMUM	60.5826
RANGE	666.5399
TOTAL	3516306.5707
MEAN	311.3153
VARIANCE	7857.
STANDARD DEVIATION	88.64
STANDARD ERROR	0.8341
SKEWNESS	0.5528
KURTOSIS	0.6920
GEOMETRIC MEAN	298.5677
SUM OF LOGS	64370.1667
MEAN OF LOGS	5.6990
LOGARITHMIC VARIANCE	0.0873
LOG ESTIMATE OF MEAN	311.8843



Pd Statistics for Composited Sample File

TOTAL NUMBER OF RECORDS	562
NUMBER OF SAMPLES	562
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	562
MAXIMUM	1580.0000
MINIMUM	0.5000
RANGE	1579.5000
TOTAL	255569.5157
MEAN	454.7500
VARIANCE	0.7703E+05
STANDARD DEVIATION	277.5
STANDARD ERROR	11.71
SKEWNESS	0.7296
KURTOSIS	0.5842
GEOMETRIC MEAN	318.2855
SUM OF LOGS	3238.7772
MEAN OF LOGS	5.7629
LOGARITHMIC VARIANCE	1.6586
LOG ESTIMATE OF MEAN	729.4310

Pd Statistics for Estimated Block Model

TOTAL NUMBER OF RECORDS	11295
NUMBER OF SAMPLES	11295
NUMBER OF MISSING VALUES	0
NUMBER OF VALUES > TRACE	11295
MAXIMUM	899.8626
MINIMUM	94.7963
RANGE	805.0663
TOTAL	5126270.2855
MEAN	453.8531
VARIANCE	0.1248E+05
STANDARD DEVIATION	111.7
STANDARD ERROR	1.051
SKEWNESS	0.6652E-01
KURTOSIS	0.1321E-01
GEOMETRIC MEAN	439.0432
SUM OF LOGS	68725.5319
MEAN OF LOGS	6.0846
LOGARITHMIC VARIANCE	0.0709
LOG ESTIMATE OF MEAN	454.8793



Specific Gravity Averaging

DDH	Sample	S.G.	S.G.2	S.G.3	Ni (ppm)
NL17	335220	4.13	4.27	3.75	23200
NL11	152586	4.29	3.81	4.24	20200
NL12	152597	3.87	3.04	2.74	20200
NL19	335254	3.11	3.57	4.39	19600
NL13	152633	3.26	3.88	3.93	19500
NL11	152585	2.69	2.92	3.67	19000
NL09	152557	4.17	3.86	4.13	18500
NL09	152558	3.99	3.17	4.06	18400
NL11	152587	4.20	3.45	3.04	18400
NL13	152632	3.76	4.04	3.65	18400
NL14	152650	3.52	3.90	3.46	17700
NL12	152606	3.50	4.04	4.15	17500
NL18	335237	3.10	3.04	4.21	17300
NL09	152556	4.11	3.12	3.84	16900
NL12	152605	3.60	4.03	3.61	16500
NL18	335230	3.93	4.10	3.72	15800
NL09	152559	3.90	3.77	4.11	15500
NL13	152636	4.10	2.91	3.86	15500
NL17	335216	4.16	3.75	4.12	14900
NL09	152554	3.90	3.58	3.75	14800
NL12	152607	3.66	3.70	3.47	14800
NL19	335255	3.43	4.15	3.72	14700
NL16	335206	4.06	4.10	3.74	14000
NL10	152572	3.78	3.47	3.00	13700
NL17	335221	4.09	3.80	3.96	13700
NL16	335205	3.76	3.09	3.65	13100
NL19	335250	3.21	3.13	3.32	13100
NL13	152635	4.14	2.77	3.49	12600
NL18	335242	3.23	3.16	3.07	12300
NL16	335207	3.30	3.85	4.16	11900
NL18	335238	3.25	3.46	3.53	11900
NL11	152588	3.13	3.12	2.89	11700
NL12	152599	3.35	3.73	3.96	11700
NL14	152651	3.90	3.90	3.85	11600
NL10	152573	3.19	3.27	3.98	11300
NL22	335273	3.69	3.36	3.07	11300
NL09	152553	3.26	3.36	3.44	11100
NL13	152634	3.32	3.70	4.12	11000
NL17	335222	3.26	3.05	3.11	11000
NL18	335231	3.47	3.98	3.33	10500
NL17	335219	3.63	3.20	3.62	10400
NL18	335229	3.67	3.67	3.79	10300
NL22	335272	3.43	3.15	3.49	9970





NL22	335269	3.59	2.98	3.72	9910
NL09	152555	3.84	4.04	3.19	9840
NL17	335215	3.42	3.23	3.09	9720
DDH	Sample	S.G.	S.G.2	S.G.3	Ni (ppm)
NL18	335240	4.18	3.59	3.94	9700
NL18	335232	3.33	3.30	3.78	9330
NL17	335214	3.29	3.54	3.42	9220
NL12	152598	3.39	3.48	3.59	8780
NL19	335253	2.98	3.30	3.34	8500
NL17	335217	3.81	3.63	3.39	8350
NL10	152574	3.71	3.95	3.58	8200
NL16	335208	3.50	3.45	3.41	8120
NL10	152576	3.84	2.96	3.14	8040
NL16	335204	3.13	3.16	3.10	8030
NL13	152628	3.30	3.00	3.30	7660
NL12	152600	3.37	3.58	4.34	7500
NL19	335249	3.40	3.71	3.08	7450
NL10	152575	2.98	3.28	3.23	7310
NL09	152551	3.48	3.27	3.26	7220
NL19	335252	3.60	3.74	3.69	7020
NL09	152560	3.15	3.18	3.34	6790
NL12	152604	3.03	3.10	3.03	6450
NL19	335251	1.53	3.18	3.86	6400
NL18	335228	3.26	3.43	3.38	6360
NL12	152596	3.27	3.08	3.20	6190
NL18	335241	3.14	3.02	3.11	6130
NL18	335233	3.94	3.51	2.98	5790
NL22	335270	3.60	3.46	3.43	5730
NL12	152595	3.30	3.51	2.99	5720
NL13	152629	3.55	3.70	3.13	5480
NL17	335223	3.32	3.13	3.44	5330
NL09	152552	3.07	3.06	3.43	5290
NL14	152648	3.40	3.11	3.35	5010
NL18	335235	3.52	3.20	3.25	4910
NL17	335218	3.40	3.45	11.80	4880
NL18	335236	3.28	3.35	3.15	4870
NL13	152626	3.05	3.51	3.19	4780
NL12	152603	3.29	3.34	3.13	4750
NL10	152570	3.07	3.34	3.33	4430
NL22	335271	3.01	3.56	3.11	4370
NL10	152571	3.12	3.20	3.13	4240
NL20	335262	3.07	3.01	3.11	4230
NL22	335268	3.03	3.09	3.04	4140
NL13	152627	3.27	3.46	3.17	3820
NL22	335274	3.15	3.04	3.16	3640
NL14	152649	3.00	3.28	3.18	3630
NL11	152583	2.72	2.71	3.04	3500
NL13	152630	3.55	3.08	3.39	3480





NL10	152568	3.01	3.06	3.27	3350
NL16	335203	3.13	3.28	3.26	3350
NL20	335259	3.06	2.98	3.03	3030
DDH	Sample	S.G.	S.G.2	S.G.3	Ni (ppm)
NL20	335263	2.94	2.95	2.93	3000
NL12	152601	3.15	3.12	3.16	2990
NL09	152561	2.92	3.07	3.14	2890
NL10	152569	3.07	3.10	3.08	2850
NL18	335244	3.45	3.14	2.91	2810
NL13	152631	3.11	3.40	3.08	2790
NL12	152602	3.23	3.23	3.45	2760
NL18	335239	3.06	3.03	3.03	2730
NL20	335261	3.09	3.00	3.04	2710
NL11	152584	3.61	3.04	3.07	2540
NL13	152638	3.22	3.06	2.93	2540
NL16	335202	3.06	3.17	3.14	2470
NL13	152642	3.08	3.05	3.03	2400
NL19	335258	2.84	2.90	2.86	2380
NL16	335210	2.92	3.03	3.08	2240
NL18	335243	2.96	2.95	3.03	2220
NL12	152608	2.91	2.92	3.05	2130
NL13	152637	2.99	3.02	3.12	2080
NL12	152614	2.98	3.02	3.04	2040
NL12	152613	3.05	3.02	2.99	2010
NL19	335248	3.15	3.10	3.14	1900
NL19	335246	2.93	2.90	2.99	1885
NL14	152652	3.03	3.09	3.09	1880
NL17	335224	3.05	3.10	3.05	1830
NL12	152615	2.64	2.93	2.84	1680
NL19	335247	2.99	3.07	3.18	1575
NL09	152562	2.89	3.09	3.07	1570
NL18	335234	3.05	3.03	3.02	1420
NL13	152639	3.10	2.91	3.04	1415
NL19	335256	3.06	2.86	3.02	1340
NL12	152611	3.01	3.06	2.97	1295
NL16	335211	3.12	3.13	3.02	1250
NL12	152610	3.02	2.96	2.96	1220
NL16	335201	3.02	2.94	2.98	1180
NL17	335225	3.17	2.83	2.85	1165
NL12	152609	3.09	2.97	2.95	1080
NL19	335257	2.93	2.84	3.01	1055
	Average 1:	3.34	3.31	3.42	
	Average 2:	3.35			



APPENDIX 9

Block Model Sections



