

# North East Case Pegmatite Dike

## 2010 Work Assessment Report

Claim L-4249052

Steele Township (G-3571) / Larder Lake Mining Division

NTS Map Sheet 32 E/4  
49-02 N 79-55 W

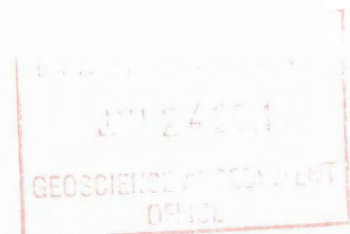
Submitted By:



Peter M. Hermeston  
(Lic. 1003623)

January 14<sup>th</sup> 2011

2.47355



## **Forward:**

The assessment work detailed in this document addresses one day of prospecting, mapping sampling, and the subsequent assayed results. The exploration work was done over what is currently believed to be an isolated pegmatite dike; herein referred to as the North East Case Pegmatite Dike.

The field work was accomplished on August 25<sup>th</sup>, 2010 by a retained fellow prospector, Ed Shynkorenko (Lic.M-25405). Mr. Shynkorenko also assisted with the preparation of this document.

All required illustrations/maps are contained separately within the Appendices of this document.

Expenditure rates for work, transportation, etc., were based upon industry standards.

Based on the results of the data compiled, further work and sampling will be undertaken on the subject area in 2011 which may involve a channel cut across the width of an exposed area of the dike, a cut gridline system, and soil sampling.

This document acknowledges previous assessment work/reports filed by other parties.

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## **Introduction/History:**

The subject 1-unit claim encompasses the North East Case Pegmatite Dike, which in turn, is part of what is known collectively as the “Case Pegmatites”. Documentation pertaining to the Case Pegmatites was first made by the Ontario Geological Survey (Lumbers) in 1962. This resulted in the overall area being held under various mining claims over the decades, including a now expired mining lease that was issued to Dex Ltd.

By the year 2000, the subject dike was then held under now expired Claim L-1206115, which was part of a larger block of staked claims jointly held by Kirnova Ltd., Navigator Exploration Corp., and Platinova A/S. During this time prospecting and sampling efforts were ongoing. A sample was taken from the said dike, and as reported by P.C. LeCouteur Ph.D, P.Eng., returned a cesium value of 490 p.p.m. (*See page 15 of LeCouteur’s report No: 2.23394 filed at the Resident Geologist Office Kirkland Lake, Ontario*). Given the high cesium content it was recommended by LeCouteur that the said dike be further investigated, but it was not. The area remained under staked claim for several additional years. However, the claim was eventually abandoned.

The area of the North East Case Pegmatite Dike, being mining claim L-4249052, was staked by Peter Hermeston on August 24<sup>th</sup>, 2010.

## **List of Illustrations:**

All illustrations, maps, and sketches referred to in this document are labeled accordingly and are contained within the attached appendices.

## **Location:**

As noted above, the subject areas of work are contained within staked mining claim L-4249052, situated in Steele Township, District of Cochrane, Larder Lake Mining Division (*See Appendix A “Location Map”*). The author also holds several additional adjoining/contiguous claims in the immediate vicinity amounting to an aggregate of 22-units (*See Appendix B “Claim Map. Abstracts and List”*).

## **Access:**

The property is situated approximately 90 kilometres east of Cochrane, Ontario. It is best accessed by utilizing Highway 652 eastward from Cochrane, Ontario and then turning east again onto the “Trans-Limit Road”; a 2.8 km. secondary road/trail system branching off northward then provides access to within a further 800 metre “bush walk” to the subject area (*See Appendix C “Access Map”*).

## **Regional Geology:**

As documented by several geological surveys over the years, the system of pegmatites known collectively as the “Case Pegmatites”, are situated along the contact between the northerly, granodiorite and quartz monzonite Case Batholith and the Scapa Meta-Sediments to the south (*See Appendix D “Regional Geology Map”*). The said pegmatite dike addressed by this particular report is situated approximately 120 metres north of the estimated contact. Similar to the East Case Pegmatite Dike, the North East Case Pegmatite Dike appears to be hosted by fine grained biotite-garnet meta-sediments. It has two distinct exposed areas, both appear to dip shallowly and trend in a northeast-southwest direction. The southern exposed area averages up to 10 metres in width over an estimated 75 metre length. The northern exposure averages 20 metres in width by 48 metres in length. The average depth of both exposed outcrops is approximately 0.5 metres. Adjacent to the dike there may be numerous “dikelets”.

The subject area is situated within a traditional boreal setting. Forest cover includes black spruce, tamarack, and open bog in the wetter, lower areas changing to a jack pine, balsam fir, and white birch mixture over the more elevated areas of the dike. The area is drained by a slowly moving northward creek commencing at Wheat Lake to the south and emptying into Case Lake to the north.

## **Work Program / Daily Log:**

### **Rationale:**

Cesium, and other rare earth minerals, continue to grow in economic importance as the world's leading producer, China, discontinues exporting of such commodities. The value of cesium, lithium, and rubidium is projected to further increase as developed economies incorporate more high tech devices into everyday aspects of life. Given the fact that only a single sample was taken in 2000, and that practically nothing is known about the North East Case Pegmatite Dike, an effort to collect additional field information was undertaken. Taking advantage of favourable summer conditions, this was performed on August 25<sup>th</sup>, 2010.

### **Prospecting/Mapping & Sampling (Daily Log):**

The 1-unit claim, being L- 4249052, was prospected, mapped, and sampled on August 25<sup>th</sup>, 2010 by Ed Shynkorenko Lic. M-25405, (*See Appendix E “Assessment Work Performed on Mining Lands Form”*). Four rock and two soil samples were taken and assayed; the compiled data is also presented in map form (*See Appendix F “Work Compilation Plan”*). Within the boundaries of claim L-4249052 the total distance traversed was approximately 1.4 kilometres. Field observations per station are as follows:

**Work Program / Daily Log continued:**

*Stn.ST-001 (578789E x 5432397N)*

A small patch of outcrop located near the western boundary of the subject claim was located. The veining consists of narrow strings of k-spar, quartz and some mica; sample taken and assayed (*See Appendix G "Assay Results"*).

*Stn.ST-002 (579135E x 5432590N)*

A small pegmatite vein within a 20 square metre patch of exposed outcrop situated near the # 1 Post of the subject claim was found protruding out of the treed bog. This vein displayed quartz, k-spar, and mica; sample taken and assayed (*See Appendix G "Assay Results"*).

*Stn.ST-003 (579051E x 5432289N)*

This station is within the southern exposed portion of the North East Case Pegmatite Dike. A pegmatite vein system approximately 1 metre in width was intermittently traced in a northeast / southwest orientation for over the length of the exposure displaying k-spar, quartz, and mica; sample taken and assayed (*See Appendix G "Assay Results"*).



*"South Portion of North East Case Pegmatite Dike Stn.ST-003"*

*Stn.ST-004 (579076E x 5432366N)*

Within the northern exposed portion of the North East Case Pegmatite Dike a pegmatite vein system ranging in width from 0.5 metres to approximately 1 metre was traced intermittently in a northeast / southwest orientation for the length of the exposure displaying k-spar, quartz, and mica. A greenish spodumene crystal approximately 1cm in length was also found. A sample was taken and assayed (*See Appendix G "Assay Results"*).

**Work Program / Daily Log continued:**

*Stn.ST-005 (578922E x5432348N)*

A random soil sample was taken from the "B" horizon consisting of wet saturated grayish coloured sand. The sample taken was assayed (*See Appendix G "Assay Results"*).

*Stn.ST-006 (578892E x 5432235N)*

A random soil sample was taken from the "B" horizon consisting of grayish coloured sand. The sample taken was assayed (*See Appendix G "Assay Results"*).



*"North Portion of North East Case Pegmatite Dike Stn.ST-004"*

**Conclusions & Recommendations:**

Although the assayed results derived from the samples taken were not impressive and did not echo the results obtained from the 2000 LeCouteur sample, further efforts of exploration will be made in 2011.

Of interesting note was the detection of scandium. This slight rare earth "signature" may prove to be of importance as the dike is nestled within a quartz monzonite batholith. In the spring of 2011 additional samples will be taken from the North East Case Pegmatite Dike and specifically tested for their rare earth content. If better results are obtained a channel cut will be made across the width of the dike exposures.

### **Author Qualifications:**

The author of this document has worked for the Ontario Northland Railway for his entire career. As he is now nearing retirement, implementing his interest in mineral exploration/development is rapidly becoming a full time post retirement job. This particular undertaking is his second report filed for the Case Pegmatite area (*his first report being filed as 2.45523*). What he has learnt thus far has been mostly acquired by asking numerous questions of those already in the realm of mineral exploration, by reviewing previously published materials, and by actually performing the physical field work involved with the hands on assistance of a more seasoned prospector. He acknowledges this learning curve and is appreciative to others who have provided assistance/advice when needed.

### **Communications (Direct & Indirect):**

Ed Shynkorenko, fellow prospector, Cochrane, Ontario.

Neil Doidge, "Imery Group", Birmingham, Alabama.

Gary Clark, Ontario Prospectors Association, Thunder Bay, Ontario.

Dan McCormack, Vault Minerals (formerly Kirnova Ltd.).

### **References:**

LeCouteur, P.C. "Geological Report on Case Pegmatite Property" (2002).

Lumbers, S.B. "Steele, Bonis, Scapa, Townships. Geological Report 8 ODM" (1962).

Horne, J.D. "Report of 1999 Field Work on the Case Rare-Earth Metals Pegmatite" (2000).

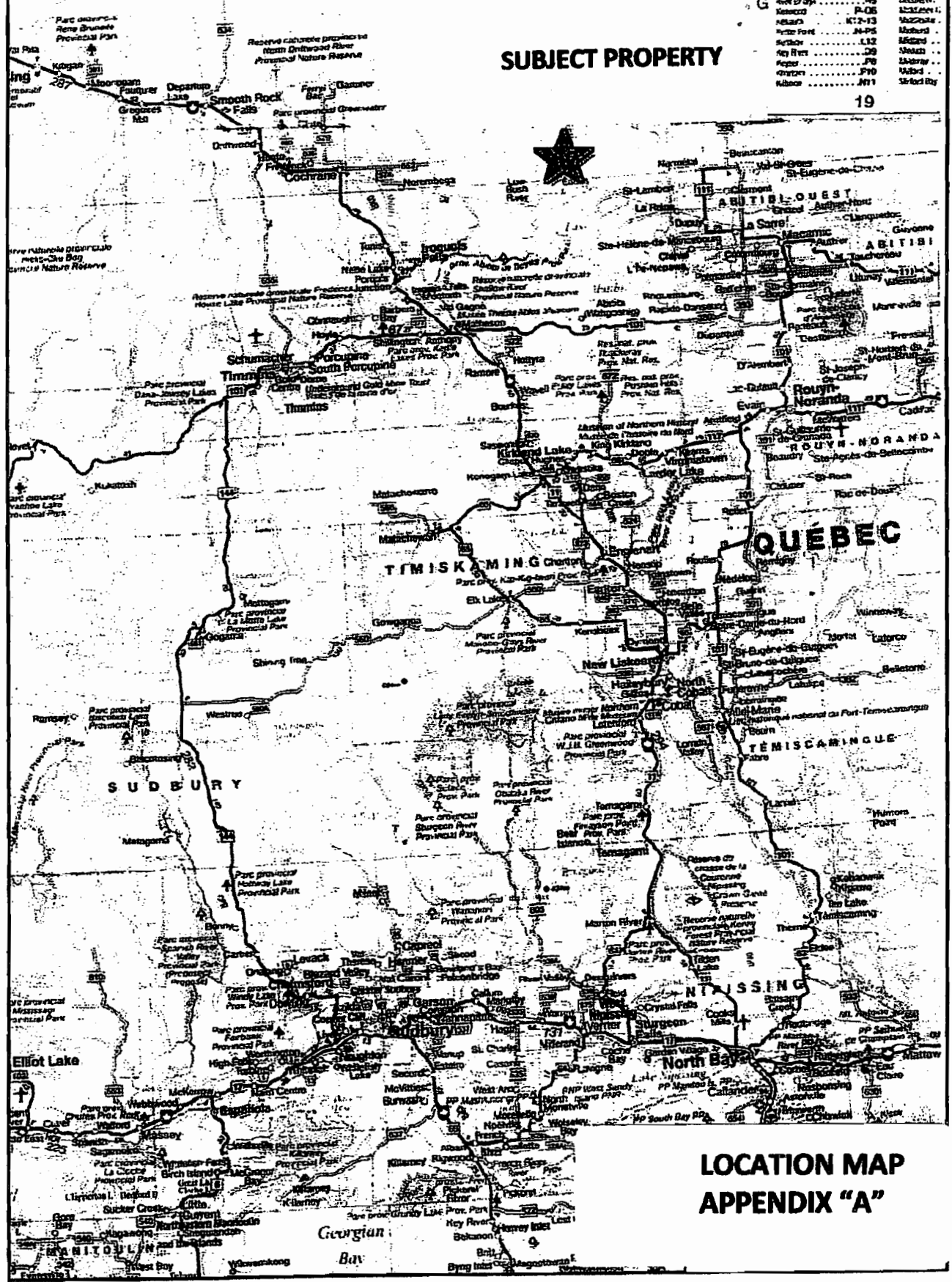


# APPENDICES

0 100 kilometers

111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
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# SUBJECT PROPERTY



## LOCATION MAP APPENDIX "A"

# APPENDIX B "CLAIM MAP"

**Steele Township (G-3571)**  
**Larder Lake Mining Division**

**Approximate Scale: 1 Centimeter = 800 meters**



6435000N

575000E

6436000N

6430000N

6430000N

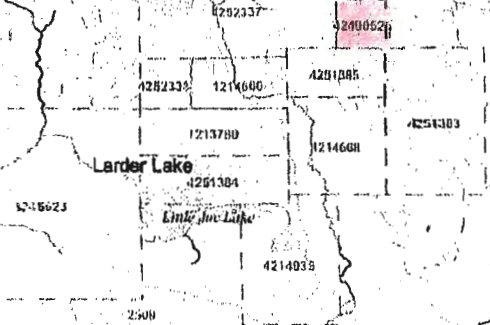
575000E

660000E

Larder Lake

Little Joe Lake

Wheat Lake



## Legend

Hermiston Contiguous Claim Block.....

Subject Area of Work.....

UTM Zone 17  
5000m grid



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### Mining Claim Abstract

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LARDER LAKE - Division 80		Claim No: L 4249052		Status: ACTIVE
<b>Due Date:</b>	2012-Aug-26	<b>Recorded:</b>	2010-Aug-26	
<b>Work Required:</b>	\$ 400	<b>Staked:</b>	2010-Aug-24 12:05	
<b>Total Work:</b>	\$ 0	<b>Township/Area:</b>	STEELE (G-3571)	
<b>Total Reserve:</b>	\$ 0	<b>Lot Description:</b>		
<b>Present Work Assignment:</b>	\$ 0	<b>Claim Units:</b>	1	
<b>Claim Bank:</b>	\$ 0			

### Claim Holders

Recorded Holder(s) Percentage

Client Number

HERMESTON, PETER M ( 100.00 %)

403428

### Transaction Listing

Type	Date	Applied	Description	Performed Number
STAKER	2010-Aug-26		RECORDED BY HERMESTON, PETER M (1003623)	R1080.04129

### Claim Reservations

- 01 400' surface rights reservation around all lakes and rivers
- 02 Sand and gravel reserved
- 03 Peat reserved
- 04 Other reservations under the Mining Act may apply
- 05 Including land under water

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**Claim Worked in 2010:**

L-4249052 (1-unit)

**Other Claims within Contiguous Block**

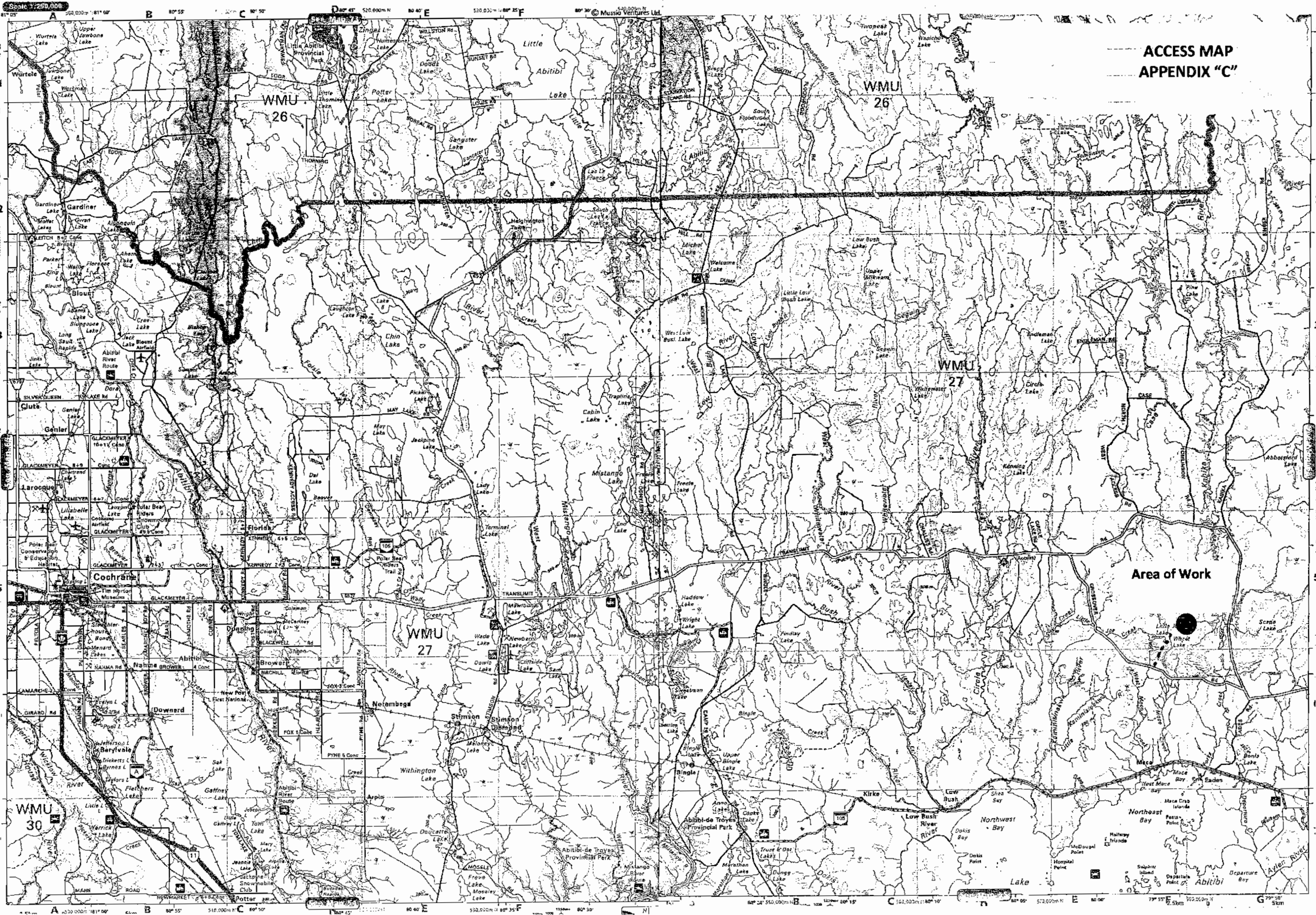
L-1214668 (4-units)

L-4251383 (6-units)

L-4251384 (3-units)

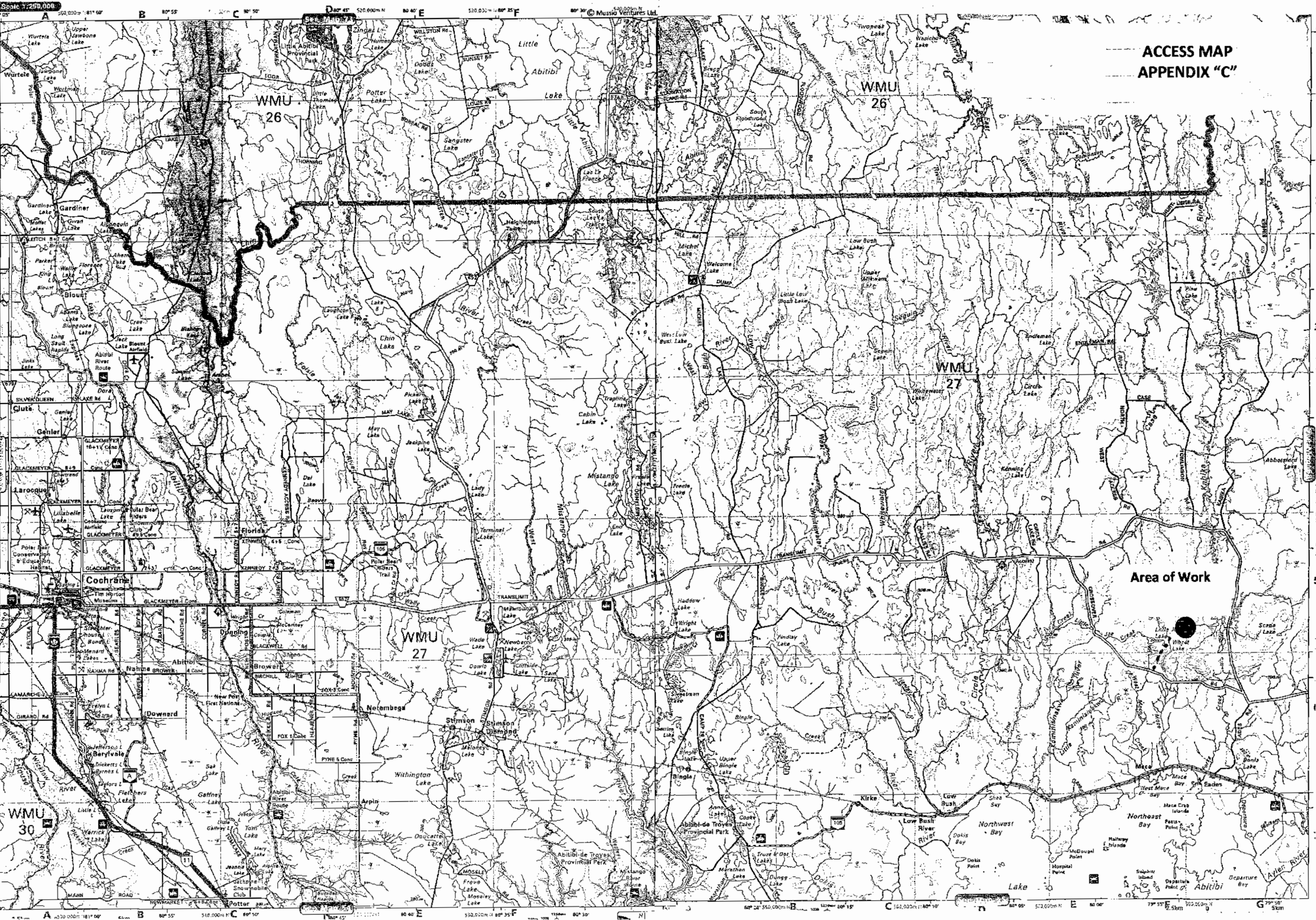
L-4251385 (2-units)

L-4214935 (6-units)



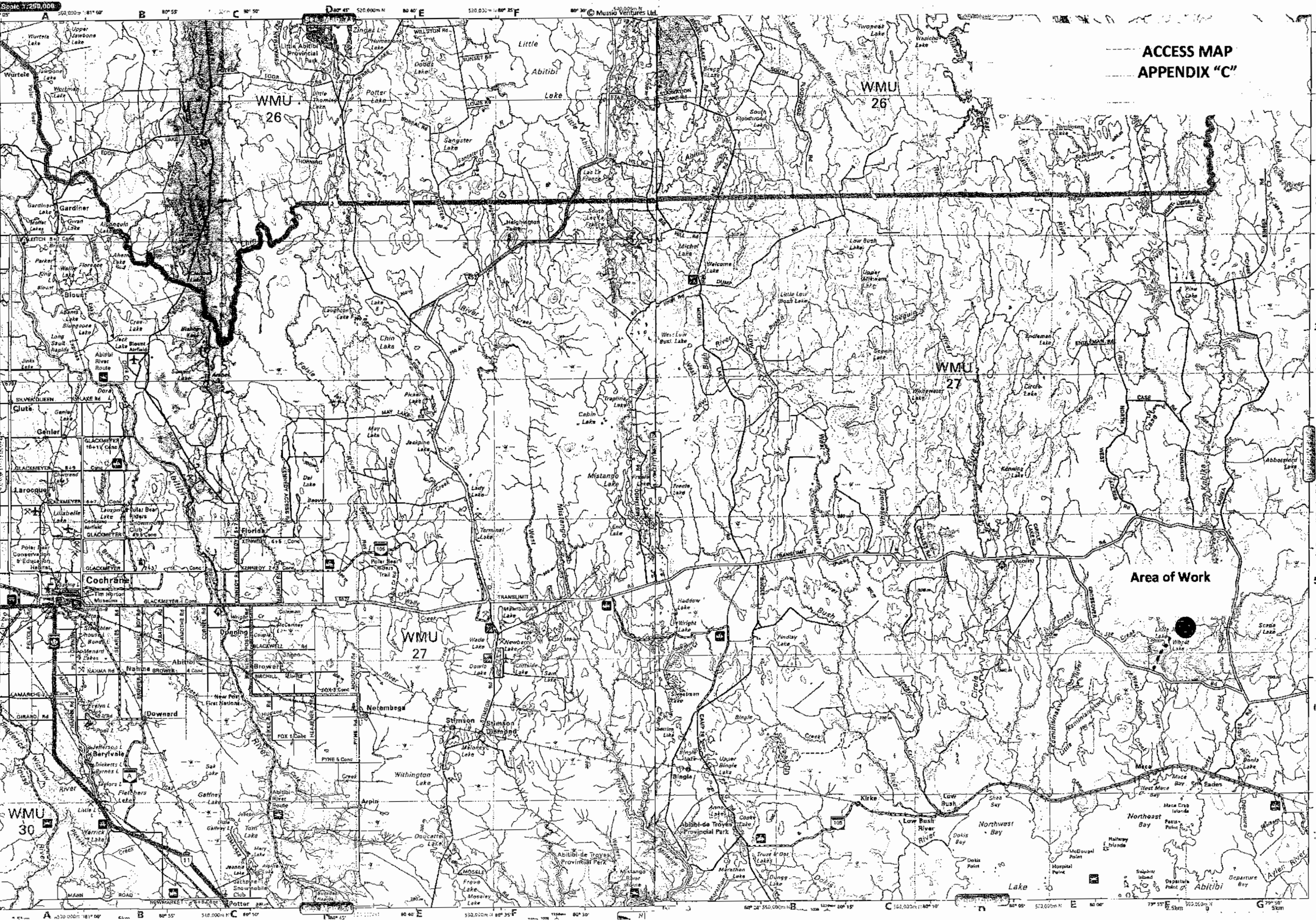
ACCESS MAP  
APPENDIX "C"

Area of Work



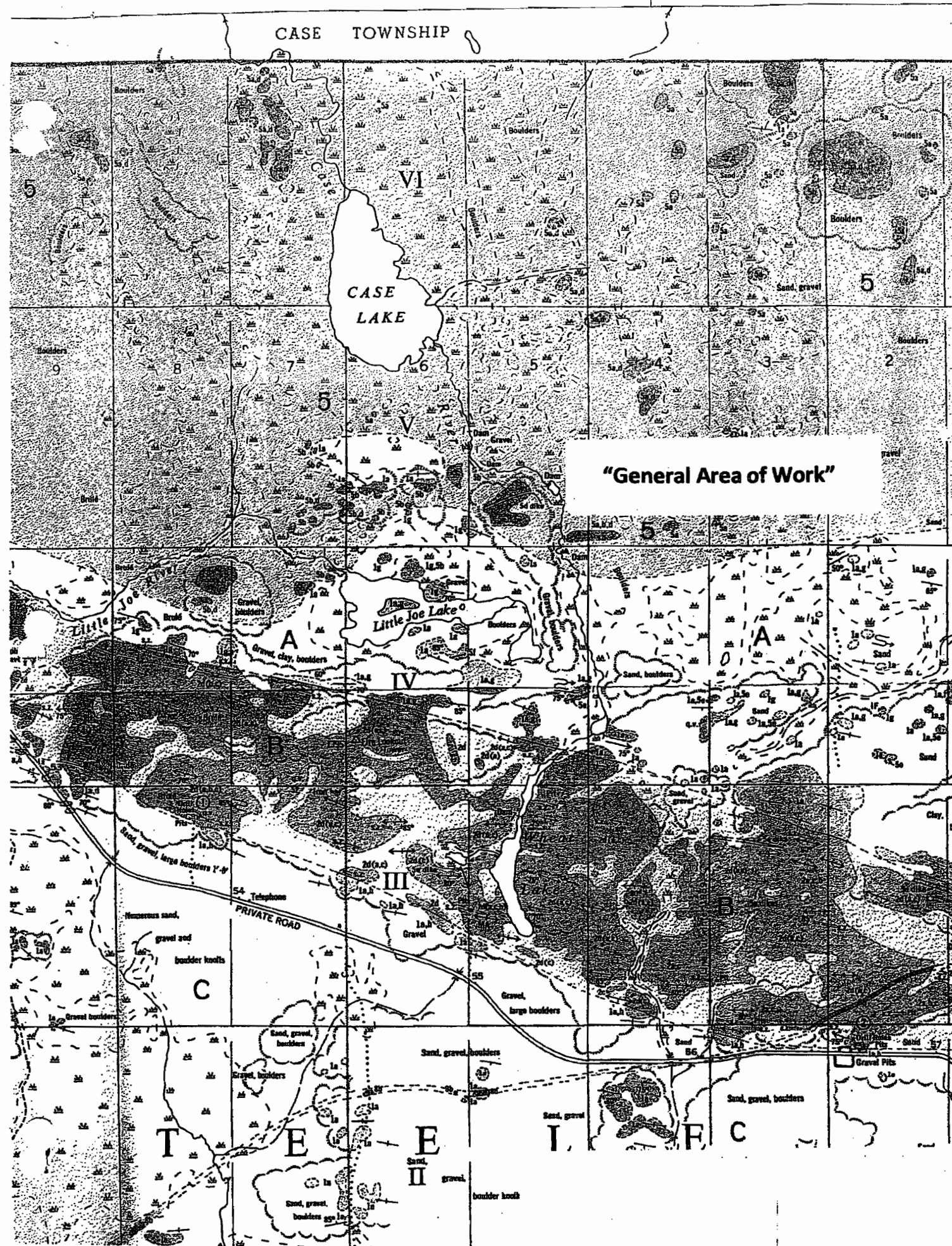
ACCESS MAP  
APPENDIX "C"

Area of Work



ACCESS MAP  
APPENDIX "C"

Area of Work



**LEGEND**

**CENOZOIC\***

**RECENT**

*Peat, beach deposits, river deposits.*

**PLEISTOCENE**

*Varved clay, boulder clay, silt, sand, pebble gravel, boulder gravel.*

**UNCONFORMITY**

**PRECAMBRIAN\*\***

**LATE BASIC INTRUSIONS**

Late diabase

8a Olivine diabase.  
8b Diabase.

Early diabase

7a Quartz diabase.

**INTRUSIVE CONTACT**

**ACID INTRUSIONS**

Scapa stock\*\*\*

6a Pink granite.

Case batholith\*\*\*

5a Leucocratic quartz monzonite.  
5b Granodiorite.  
5c Pegmatite and aplite.  
5e Feldspar porphyry and quartz-feldspar porphyry.  
5f Felsite.

Sargeant batholith\*\*\*

4a Quartz monzonite.  
4b Granodiorite.  
4c Quartz diorite.  
4d Hornblende and pyroxene diorite.  
4e Feldspar porphyry and quartz-feldspar porphyry.  
4g Lamprophyre.  
4h Hybrid rocks.  
4j Pegmatite and aplite.

**INTRUSIVE CONTACT**

**ULTRABASIC AND BASIC INTRUSIONS**

3a Serpentinite and uralitized pyroxenites.

3b Amphibolite.  
3c Diorite.

**INTRUSIVE CONTACT**

**METAVOLCANIC-METASEDIMENT ASSEMBLAGE**

D Bonis volcanics

FAULT(?)

C Steele metasediments.

B Steele volcanics.

A Scapa metasediments.

**VOLCANIC DIVISIONS OF THE ASSEMBLAGE**

2a Intermediate to basic lava.  
2b Pillow lava.  
2d Amphibolite, amphibole schist. Original rock type in brackets.  
2g Diabasic lava.  
2o Porphyritic basalt.  
2f Flow breccia or tuff.

2e Acid volcanics. Includes rocks of indefinite origin.

**METASEDIMENT DIVISIONS OF THE ASSEMBLAGE**

1a Metamorphosed greywacke. Includes interbedded calc-silicate rocks.  
1g Garnet schist.  
1h Hornblende-plagioclase schist.  
1s Staurolite schist.

IF Iron formation.

**REGIONAL GEOLOGY  
APPENDIX "D"**

**Scale 1:31680**



## Assessment Work Performed on Mining Lands

*Mining Act, Subsections 65(2) and 66(3), R.S.O. 1990*

Folder Identification Number (office use)
Transaction Number (office use) W -
Submission Number (office use) 2.

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the *Mining Act*. Under section 8 of the *Mining Act*, this information is used to maintain a public record. This information will be also used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Senior Manager, Mining Lands Section, Ministry of Northern Development and Mines, 3<sup>rd</sup> Floor, 933 Ramsey Lake Road, Sudbury ON P3E 6B6. Telephone 1 888 415-9845.

- Instructions:**
- For work performed on Crown Lands before recording a claim, use form Assessment Work Performed Before Recording Claim(s)
  - Please type or print in ink.
  - Submit to Geoscience Assessment Office, 933 Ramsey Lake Road, Sudbury ON P3E 6B6. Telephone 1 888 415-9845.

**Note:** All correspondence will be sent to the address on record in the Provincial Recording Office, as required under the *Mining Act*, subsections 19(6) and (8).

**1. Submitter** I am  an authorized agent or  the recorded holder (if a company, enter name of person submitting)

Name (last) <b>HERMESTON</b>	(first) <b>PETER</b>	(initial) <b>M</b>	Client number (optional) <b>403428</b>
Address - Unit number, Street name <b>952 FRASER STREET.</b>			
City, Town or Village <b>NORTH BAY</b>	Province or State <b>ONT.</b>	Country <b>CAN.</b>	Postal Code <b>P1B-3X8</b>
Telephone number <b>(705) 476-9131</b>	Fax number <b>( )</b>	E-mail address (optional) <b>N/A.</b>	

**2. Provide**

<input type="checkbox"/>	where there is a surface rights holder, before starting ground exploration work for the first time on a staked claim you must provide notice to the surface rights holder(s) as required by the <i>Mining Act</i> and provide proof of notification to the Ministry
<input checked="" type="checkbox"/>	your technical report and maps in paper or on a compact disc
<input checked="" type="checkbox"/>	a current legible map showing how the contiguous mining lands are linked for assigning work
<input type="checkbox"/>	proof of beneficial interest (if assigning amongst different recorded holders)

**3. Work Performed** This includes the date you traveled to the field or mobilized equipment to the date the technical report was completed.

From: DD/MM/YYY (enter the month in full in this box e.g. 12/July/2008) <b>25/08/2010</b>	To: DD/MM/YYY (enter the month in full in this box e.g. 28/July/2008) <b>14/01/2011</b>
--	--

**Regulations:** Calculate the time-adjusted credit column, in the tables below, as follows:

1. Work filed within 2 years of performance is claimed at 100%. (Enter 100% of actual costs in both of the last 2 columns).
2. Work filed after 2 years and up to 5 years after performance is credited at 50%. (Enter 100% of actual costs in the 2<sup>nd</sup> last column and 50% in the last column.)
3. Work older than 5 years is not eligible for credit.

**3(A) Dates and Costs of Work Performed**

From date DD/MM/YYYY	To date DD/MM/YYYY	Work Type	Unit of Work (example: hours/day, metres of drilling, km of grid lines)	Cost per Unit of Work	Actual Costs (\$)	Time-Adjusted Credit (\$) (See notes 1 and 2 above)
<b>25/08/2010</b>	<b>25/08/2010</b>	<b>PROSPECTING</b>	<b>8 HR. DAY</b>	<b>\$240/DY</b>	<b>\$240.00</b>	<b>\$240.00</b>
<b>23/11/2010</b>	<b>14/01/2011</b>	<b>REPORT PREP.</b>	<b>3 8HR DAYS</b>	<b>\$240/DY</b>	<b>\$720.00</b>	<b>\$720.00</b>

**3(B) Associated Costs**

From date DD/MM/YYYY	To date DD/MM/YYYY	Associated Costs (example: supplies, mobilization, demobilization)	Actual Costs (\$)	Time-Adjusted Credit (\$) (See notes 1 and 2 above)
<b>26/08/2010</b>	<b>15/09/2010</b>	<b>ASSAY DROP OFF TO RESULTS</b>		
		<b>REC'D</b>	<b>\$213.31</b>	<b>\$213.31</b>

3(C) Transportation Costs

From date DD/MM/YYYY	To date DD/MM/YYYY	Transportation Costs	Actual Costs (\$)	Time-Adjusted Credit (\$) (See notes 1 and 2 above)
25/08/2010	25/08/2010	COCHRANE TO STEELE TRIP + RTN 185K x .40/km " 74"	" 74.00	" 74.00
26/08/2010	26/08/2010	ASSAY DROP OFF COCH. TO TIMMINS 230K x .40	" 92.00	" 92.00

3(D) Food and Lodging Costs

From date DD/MM/YYYY	To date DD/MM/YYYY	Food and Lodging Costs	Actual Costs (\$)	Time-Adjusted Credit (\$) (See notes 1 and 2 above)

Total of Time Adjusted Credit Columns (3A through 3D) = Total Value of Assessment Work

1364.31

4. Type of Work Performed - please check off the type of survey performed (optional)

Work Type	Survey Type	Work Type	Survey Type
Airborne geophysical	<input type="checkbox"/> AEM <input type="checkbox"/> AMAG <input type="checkbox"/> AVLF <input type="checkbox"/> other airborne geophysical	Geophysical	<input type="checkbox"/> EM <input type="checkbox"/> GRAV <input type="checkbox"/> IP <input type="checkbox"/> MAG <input type="checkbox"/> VLF <input type="checkbox"/> other geophysical
Assays	<input type="checkbox"/> assay <input type="checkbox"/> beneficiation <input type="checkbox"/> geochemical	Physical	<input type="checkbox"/> manual work <input type="checkbox"/> re-cutting claim lines <input type="checkbox"/> mechanical work <input type="checkbox"/> trenching <input type="checkbox"/> overburden stripping <input type="checkbox"/> other physical
Drilling	<input type="checkbox"/> diamond drilling <input type="checkbox"/> drill core submission to MNDM <input type="checkbox"/> overburden drilling <input type="checkbox"/> boring other than core	Prospecting	<input checked="" type="checkbox"/> Prospecting
Line cutting	<input type="checkbox"/> line cutting	Rehabilitation	<input type="checkbox"/> Rehabilitation
Geochemical	<input type="checkbox"/> geochemical	Other = Please print examples: microscopic studies, bulk sampling, downhole geophysics	
Geological	<input type="checkbox"/> geological		

5. Commodities Explored for - please list (optional)

LITHIUM + CESIUM

6. Work Performed, Assigned, Banked

6(A) If you performed work on mining lands other than a staked mining claim, fill in the table below. Lease or Patented Land or Licence of Occupation (LO) or Other Mining Lands: Work performed, assigned or banked

Lease # or Parcel # or G # or LO #	GAO-Approved Identifier (office use only)	Hectares	Amount of Work Performed on this Land (\$)	Amount of Credits Assigned to Mining Claim(s) (\$)	Bank (Amount of credits to be assigned at a future date)
Column Totals for 6(A)					

**APPENDIX F  
"WORK LOCATION PLAN"**

**Claim L-4249052 Steele Township / Larder Lake Mining Div. / Date of Work Aug. 25<sup>th</sup> 2010**

**Legend**

Claim Post & Line

Sampled Station

Line of Traverse

Boundary of Dike (Exposed)

Boundary of Dike (Inferred)

Bog & Alder



Stn.ST-001 (12345E x 12345N) X



**Scale 1cm. = 40 metres**

**All Readings in NAD 83**

*Claim 4252337*

Stn.ST-001 (578789E x 5432397N)  
K-spar, Quartz, shallow humus

Stn.ST-005 (578922E x 5432348N)  
Shallow grey sandy soil

Stn.ST-006 (578892E x 5432235N)  
Shallow grey sandy soil

Stn.ST-002 (579135E x 5432590N)  
K-spar, Quartz, >1 metre organic soil

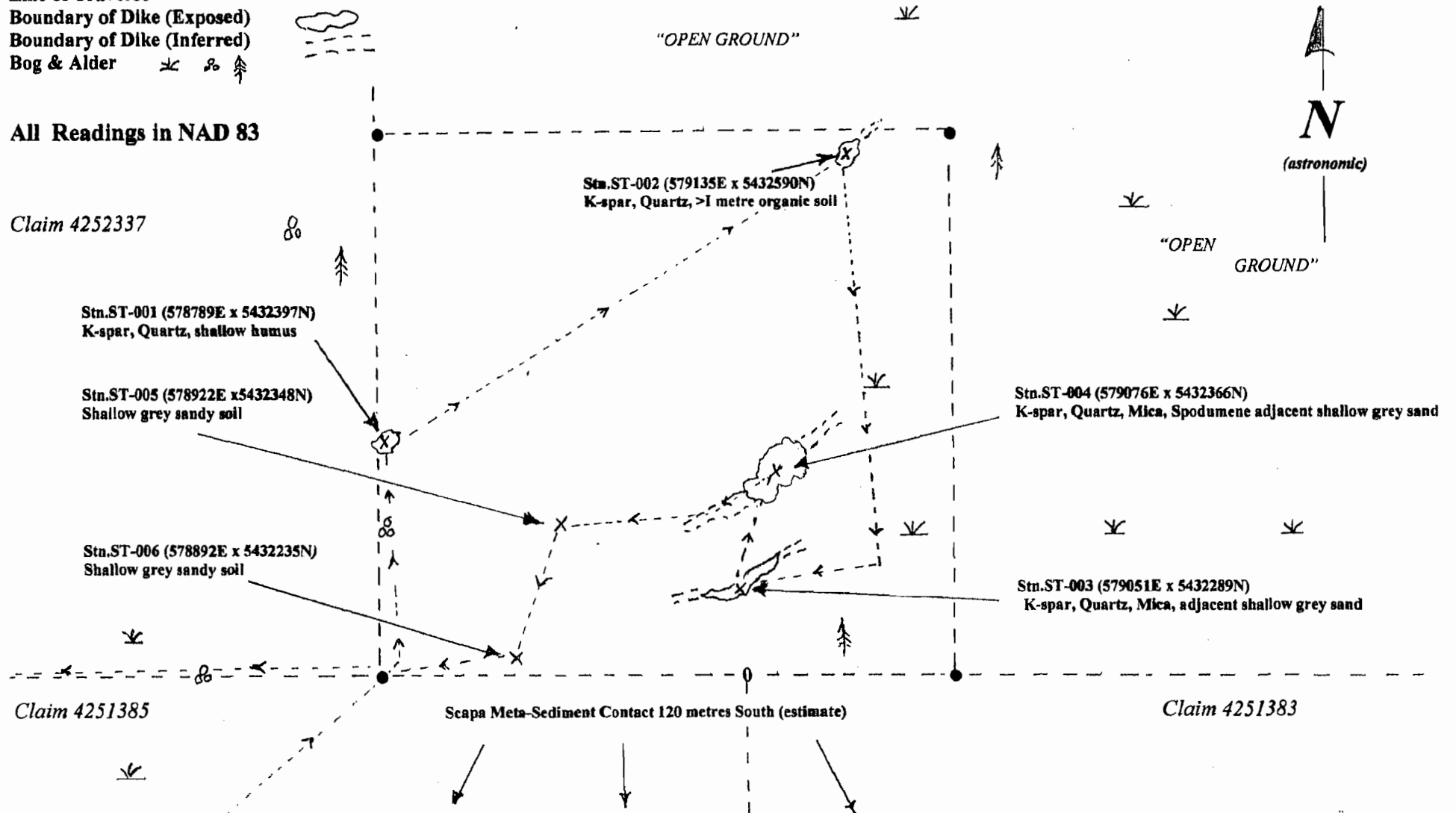
Stn.ST-004 (579076E x 5432366N)  
K-spar, Quartz, Mica, Spodumene adjacent shallow grey sand

Stn.ST-003 (579051E x 5432289N)  
K-spar, Quartz, Mica, adjacent shallow grey sand

*Claim 4251385*

Scapa Meta-Sediment Contact 120 metres South (estimate)

*Claim 4251383*





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **PETER HERMESTON**  
**952 FRASER ST**  
**NORTH BAY ON P1B 3X8**

Page: 1  
 Finalized Date: 10-SEP-2010  
 This copy reported on  
 13-SEP-2010  
 Account: PETHER

**Minerals**

**CERTIFICATE TM10119495**

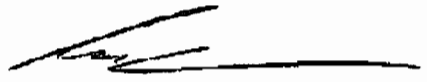
Project:  
 P.O. No.:  
 This report is for 4 Rock samples submitted to our lab in Timmins, ON, Canada on 26-AUG-2010.  
 The following have access to data associated with this certificate:  
 PETER HERMESTON

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
ME-MS41	51 anal. aqua regia ICPMS

To: **PETER HERMESTON**  
**ATTN: PETER HERMESTON**  
**952 FRASER ST**  
**NORTH BAY ON P1B 3X8**

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:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: PETER HERMESTON  
 952 FRASER ST  
 NORTH BAY ON P1B 3X8

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119495**

Sample Description	Method Analyte Units LOR	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg 0.02	Ag ppm 0.01	Al % 0.01	As ppm 0.1	Au ppm 0.2	B ppm 10	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.01	Ce ppm 0.02	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05
ST-001		0.29	0.02	0.24	<0.1	<0.2	<10	10	0.11	0.06	0.05	0.01	6.20	0.7	3	1.96
ST-002		0.25	0.01	0.05	<0.1	<0.2	<10	20	<0.05	0.10	0.01	0.01	0.28	0.3	9	0.24
ST-003		0.10	<0.01	0.47	<0.1	<0.2	<10	30	0.15	0.33	0.03	0.01	64.3	1.2	4	13.55
ST-004		0.29	<0.01	0.10	<0.1	<0.2	<10	<10	0.70	0.08	0.02	<0.01	0.88	0.1	5	20.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119495**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
ST-001		11.8	0.40	1.66	0.05	0.18	<0.01	<0.005	0.15	3.0	18.1	0.07	100	0.10	0.04	0.57
ST-002		3.5	0.39	0.80	<0.05	<0.02	0.02	<0.005	0.02	<0.2	2.5	0.02	30	0.20	0.01	0.28
ST-003		5.2	0.98	4.89	0.12	0.54	0.02	0.005	0.31	35.2	93.3	0.09	176	0.14	0.06	3.65
ST-004		1.0	0.20	1.23	<0.05	0.13	<0.01	<0.005	0.07	0.4	34.9	<0.01	38	0.08	0.03	0.86

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119495**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni ppm 0.2	P ppm 10	Pb ppm 0.2	Rb ppm 0.1	Re ppm 0.001	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 0.2	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.01	Te ppm 0.01	Th ppm 0.2	Ti % 0.005
ST-001		2.3	50	2.5	18.2	0.001	0.01	<0.05	0.6	<0.2	0.4	4.2	<0.01	<0.01	2.6	0.029
ST-002		1.5	20	1.4	1.2	0.001	0.01	<0.05	0.4	<0.2	0.3	3.0	<0.01	<0.01	0.2	0.007
ST-003		2.3	70	5.1	69.8	0.001	<0.01	<0.05	1.6	0.3	1.2	4.7	<0.01	<0.01	16.6	0.054
ST-004		1.1	60	0.9	55.1	0.001	<0.01	<0.05	0.5	<0.2	1.4	2.0	0.01	<0.01	0.6	<0.005

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119495**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
ST-001		0.08	0.58	5	<0.05	1.57	13	3.0
ST-002		<0.02	0.06	1	<0.05	0.05	<2	<0.5
ST-003		0.47	1.33	5	<0.05	2.73	28	15.1
ST-004		0.29	0.42	<1	<0.05	0.11	3	1.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





**Minerals**

ALS Canada Ltd.  
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**Page: Appendix 1**  
**Total # Appendix Pages: 1**  
**Finalized Date: 10-SEP-2010**  
**Account: PETHER**

**CERTIFICATE OF ANALYSIS TM10119495**

<b>Method</b>	<b>CERTIFICATE COMMENTS</b>
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

P.02

705 476 9131

HERMESTON

NOV-21-2010 06:58 PM



ALS Canada Ltd.  
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To: PETER HERMESTON  
 952 FRASER ST  
 NORTH BAY ON P18

**INVOICE NUMBER 2133472**

BILLING INFORMATION	
Certificate:	TM10119495
Sample Type:	Rock
Account:	PETHER
Date:	10-SEP-2010
Project:	
P.O. No.:	
Quote:	
Terms:	Due on Receipt C1
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
1	BAT- 01	Administration Fee	30.00	30.00
4	PREP- 31	Crush, Split, Pulver	6.75	27.00
0.93	PREP- 31	Weight Charge (lgh, Split, Pulverize)	0.65	0.60
4	ME- MS41	51 anal. aqua regal	17.65	70.60
4	CEO- AR01	Aqua regia digest	3.35	13.40

To: PETER HERMESTON  
 ATTN: PETER HERMESTON  
 952 FRASER ST  
 NORTH BAY ON P18 3X8

SUBTOTAL (CAD) \$ 141.60  
 R100938885 HST ON \$ 18.41  
**TOTAL PAYABLE (CAD) \$ 160.01**

Please Remit Payments To :  
**ALS Canada Ltd.**  
 2103 Dellarton Hwy  
 North Vancouver BC V7H 0A7

Payment may be made by: Cheque or Transfer  
 Beneficiary Name: ALS Canada  
 Bank: Royal Bank  
 SWIFT: ROYCCA1  
 Address: Vancouver, BC  
 Account: 003-001188



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: PETER HERMESTON  
952 FRASER ST  
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Page: 1  
Finalized Date: 13-SEP-2010  
This copy reported on  
15-SEP-2010  
Account: PETHER

**CERTIFICATE TM10119496**

Project:  
P.O. No.:  
This report is for 2 Soil samples submitted to our lab in Timmins, ON, Canada on  
26-AUG-2010.  
The following have access to data associated with this certificate:  
PETER HERMESTON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SCR-42	Screen to -180 um, discard plus
LOG-22	Sample login - Rcd w/o BarCode

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
ME-MS41	51 anal. aqua regia ICPMS

To: PETER HERMESTON  
ATTN: PETER HERMESTON  
952 FRASER ST  
NORTH BAY ON P1B 3X8

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:

  
Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
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 North Vancouver BC V7H 0A7  
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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119496**

Sample Description	Method Analyte Units LOR	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
ST-005-SOIL		0.27	0.04	0.59	0.5	<0.2	<10	30	0.41	0.41	0.05	0.12	19.70	1.1	18	2.30
ST-006-SOIL		0.11	0.05	0.41	1.0	<0.2	<10	40	0.25	0.33	0.01	0.24	7.37	0.8	27	3.56

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119496**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
ST-005-SOIL		7.4	0.37	5.69	0.05	<0.02	0.03	0.008	0.04	10.9	8.7	0.06	28	1.19	0.01	1.40
ST-006-SOIL		10.8	0.38	4.01	0.05	<0.02	0.02	0.009	0.07	4.0	17.2	0.09	19	1.20	0.01	0.37

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119496**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
ST-005-SOIL		9.2	90	9.6	6.4	<0.001	0.01	0.05	1.0	0.2	1.3	8.2	<0.01	<0.01	1.0	0.059
ST-006-SOIL		8.5	110	8.5	8.3	0.001	0.01	0.07	0.4	0.3	1.0	4.4	<0.01	<0.01	<0.2	0.024

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2010  
 Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119496**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5
ST-005-SOIL		0.06	0.74	17	<0.05	1.78	9	<0.5
ST-006-SOIL		0.05	0.65	11	<0.05	0.80	6	<0.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 13-SEP-2010  
Account: PETHER

**CERTIFICATE OF ANALYSIS TM10119496**

<b>Method</b>	<b>CERTIFICATE COMMENTS</b>
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).





ALS Canada Ltd.  
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To: PETER HERMESTON  
 952 FRASER ST  
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INVOICE NUMBER 2133485

BILLING INFORMATION	
Certificate:	TM10119496
Sample Type:	Soil
Account:	PETHER
Date:	13-SEP-2010
Project:	
P.O. No.:	
Quote:	
Terms:	Due on Receipt C3
Comments:	

QUANTITY	CODE	ANALYSED FOR DESCRIPTION	UNIT	TOTAL
			PRICE	
2	LOG-22	Sample log in - Rcd w/o BarCode	1.15	2.30
2	ME-M541	51 anal. aqua regia ICPMS	17.65	35.30
2	GEO-AR01	Aqua regia digestion	3.35	6.70
2	SCR-42	Screen to - 180 um, discard plus	0.80	1.60
0.38	SCR-42	Weight Charge (kg) - Screen to - 180 um, discard plus	3.35	1.27

To: PETER HERMESTON  
 ATTN: PETER HERMESTON  
 952 FRASER ST  
 NORTH BAY ON P1B 3X8

SUBTOTAL (CAD)	\$	47.17
R100938885 HST ON	\$	6.13
<b>TOTAL PAYABLE (CAD)</b>	<b>\$</b>	<b>53.30</b>

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.  
 Bank: Royal Bank of Canada  
 SWIFT: ROYCCAT2  
 Address: Vancouver, BC, CAN  
 Account: 003-00010-1001088

Please Remit Payments To :  
**ALS Canada Ltd.**  
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 North Vancouver BC V7H 6A7

NOV-21-2010 06:57 PM HERMESTON