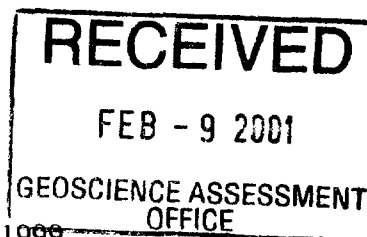


Corning Incorporated  
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June 25, 1999

20085  
98802.2

Mr. Rod Samuels  
Emerald Fields Resource Corporation  
1546 Pine Portage Road  
Kenora, Ontario P9N 2K2  
CANADA

CELS Client No. : 275157-001  
Date Received : May 14, 1999  
Date Reported : June 26, 1999  
Reviewed & : *WAW*  
Approved by : \_\_\_\_\_

**CORNING**

Wayne A. Wallding  
Technology Manager

Copy to: CELS File  
Mr. Paul Saxton

Sample Identification:

Sample 1: International Broadlands Petalite; 5-14-99

Analysis Reported:

Exhibit

- A Petalite Analysis
- B Trial Glass Metls

Comments

Client Purchase Order No.: Prepaid via Money Order #70319845-147

Direct questions regarding this report to Wayne Wallding, CELS office.

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52L07SE2007 2.20886 PATERSON LAKE

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LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**Exhibit A : Petalite Analysis**  
**Quantitative Chemical Analysis**

Sample Description:

Sample 1: International Broadlands Petalite; 5-14-99

2.20886

Folder No.: 22298-99

<u>Oxide</u>	<u>Sample 1</u> <u>(Wt%)</u>	<u>Test Method</u>
K <sub>2</sub> O	0.13	FES
Li <sub>2</sub> O	4.62	FES
Na <sub>2</sub> O	0.16	FES
Al <sub>2</sub> O <sub>3</sub>	16.4	ICP
CaO	0.033	ICP
Fe <sub>2</sub> O <sub>3</sub> (1)	0.048	ICP
LOD	0.09	LOD
LOI	0.38	LOI

<u>Element</u>	<u>Sample 1</u> <u>(ppm)</u>	<u>Test Method</u>
Co	<0.1	ICP/MS
Cr	3.3	ICP/MS
Cu	0.83	ICP/MS
Mn	14	ICP/MS
P	10.5	ICP/MS
V	<0.1	ICP/MS

(1) Total Fe expressed as Fe<sub>2</sub>O<sub>3</sub>Legend:

FES: Flame Emission Spectroscopy

ICP: Inductively Coupled Plasma Spectroscopy

LOD: Loss On Drying At 110oC

LOI: Loss on Ignition at 1000°C

ICP/MS: Inductively Coupled Plasma / Mass Spectrometry

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LABORATORY ANALYSIS REPORTCELS Client No.: 275157-001

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**Exhibit A: Petalite Analysis**  
**Quantitative Chemical Analysis****2 . 2 0 8 8 6**

NOTE: The methodology used measures the elemental concentration. The results are reported in oxide form.

Accuracy Statement

The following is a guideline of the accuracy of the Atomic Spectroscopy chemical analysis.

The actual accuracy depends on the specific element and the matrix of the material being analyzed. Also, the approximate composition of the material is required to achieve this accuracy.

---

Major Components - Levels >2%:

Accuracy is generally +/- 0.5 to 1, relative % of absolute value.

i.e. for a level of 30.0%, the absolute standard deviation will range between 0.15% and 0.30%

Minor Components - Levels between 0.5% to 2.0%:

Accuracy is +/- 1 to 5, relative % of absolute value.

Note: The relative error will be less as the value approaches the 2% level.

i.e. for a level of 1.0%, the absolute standard deviation will range between 0.01% and 0.05%

Minor to Trace Components - Levels < 0.5%:

Accuracy is +/- 2 to 20, relative % of absolute value.

Note: The relative error will be higher as the value approaches trace levels..

i.e. for a level of 0.1%, the absolute standard deviation will range between 0.002% and 0.02%

LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**Exhibit A : Petalite Analysis  
Semi-Quantitative Spectrographic Analysis**

Sample Description:

Sample 1: International Broadlands Petalite; 5-14-99

**2 . 2 0 8 8 6**

Folder No.: 22298-99

**RESULTS (Reported As The "ELEMENT")**

Range(Wt%)	1
>30	Si
10-30	-
3.0-10	Al
1.0-3.0	Li+
0.3-1.0	-
0.1-0.3	Na
0.03-0.1	-
0.01-0.03	Fe
0.003-0.01	Ca,Mg,Mn
0.001-0.003	Ga+
<0.001	Be,Sr

Typical detection limits (Wt%) for the ELEMENTS EXAMINED are listed below. They are ONLY general guidelines. Detection limits are composition affected.

0.3% - K,Nd,P	0.01% - Ba,Eu,Ir,Lu,Na,Pt,Sb,Sc,Tm,Zr
0.1% - As,Ce,Cd,Dy,Er,Hf,La,Li,Pr,Sm	0.003% - Al,Au,Ca,Co,In,Ni,Si,Ti,Y,Yb
0.03% - Gd,Ho,Nb,Re,Ru,Tb,Zn	<0.001% - Ag,B,Be,Bi,Cu,Cr,Fe,Ga,Mg,Mn,Pb, Pd,Rh,Sn,Sr,V

[ (+) = Upper Range, (-) = Lower Range, (?) = Possibly Present ]

**Analyst Comments:**

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LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**2.20886****Exhibit A : Petalite Analysis****Semi-Quantitative Spectrographic Analysis (Continued)**

BELOW is a list of the ELEMENTS that are determined by spectrographic analysis. Analyses are divided into three categories: **GENERAL QUANTITATIVE, NOBLE METALS, AND RARE EARTHS.**

Analysis for the Noble Metals and/or Rare Earths must be requested, if needed. They are not part of the General Quantitative Analysis. They can be requested by the group or by the element of interest.

**GENERAL QUANTITATIVE ANALYSIS** Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Ge, In, K, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Sb, Si, Sn, Sr, Ti, V, Zn, Zr. (If requested) Ta-0.1%, Te-0.1%, Tl-0.01%, W-0.3-1%

**NOBLE METALS ANALYSIS**

<u>ELEMENT</u>	<u>DETECTION %</u>
Au	0.003
Ga	0.001
Hf	0.1
In	0.001
Ir	0.01
Pd	0.001
Pt	0.01
Re	0.03
Rh	0.001
Ru	0.03

**RARE EARTHS ANALYSIS**

<u>ELEMENT</u>	<u>DETECTION %</u>	<u>ELEMENT</u>	<u>DETECTION %</u>
Ce	0.1	Nd	0.3
Dy	0.1	Pr	0.1
Er	0.1	Sc	0.01
Eu	0.01	Sm	0.1
Gd	0.03	Tb	0.03
Ho	0.03	Tm	0.01
La	0.1	Y	0.003
Lu	0.01	Yb	0.001

Semi-Quantitative Spectrographic Analysis RESULTS are reported as weight percent of the ELEMENT (NOT as the oxide). To convert weight percent element to weight percent oxide, MULTIPLY the percent element by the appropriate factor listed in the table below.

**FACTORS FOR CONVERSION**

Ag2O	1.07	Eu2O3	1.16	MoO3	1.50	SrO	1.18
Al2O3	1.89	FeO	1.29	Na2O	1.35	Ta2O5	1.22
As2O3	1.32	Fe2O3	1.43	Nb2O5	1.43	Tb4O7	1.18
As2O5	1.53	Ga2O3	1.34	Nd2O3	1.17	TeO2	1.25
B2O3	3.22	Gd2O3	1.15	NiO	1.27	TiO2	1.67
BaO	1.12	GeO2	1.44	P2O5	2.29	Tl2O	1.04
BeO	2.78	PbO	1.08	PbO2	1.15	Tl2O3	1.12
Bi2O3	1.11	Ho2O3	1.15	Pr2O3	1.17	Tm2O3	1.14
CaO	1.40	HfO2	1.18	RuO4	1.63	VO	1.31
CdO	1.14	In2O3	1.12	RuO2	1.32	VO2	1.63
CeO2	1.23	K2O	1.20	Sb2O3	1.20	V2O5	1.79
Co3O4	1.36	La2O3	1.17	Sb2O5	1.33	WO2	1.17
Cr2O3	1.46	Li2O	2.15	Sc2O3	1.53	WO3	1.26
CuO	1.25	Lu2O3	1.14	SiO2	2.14	Y2O3	1.27
Cu2O	1.13	MgO	1.66	Sm2O3	1.16	Yb2O3	1.14
Dy2O3	1.15	MnO	1.29	SnO	1.13	ZnO	1.24
Er2O3	1.14	MnO2	1.58	SnO2	1.27	ZrO2	1.35

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LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

2.20886

**Exhibit A : Petalite Analysis**  
**Dry Screen Analysis**

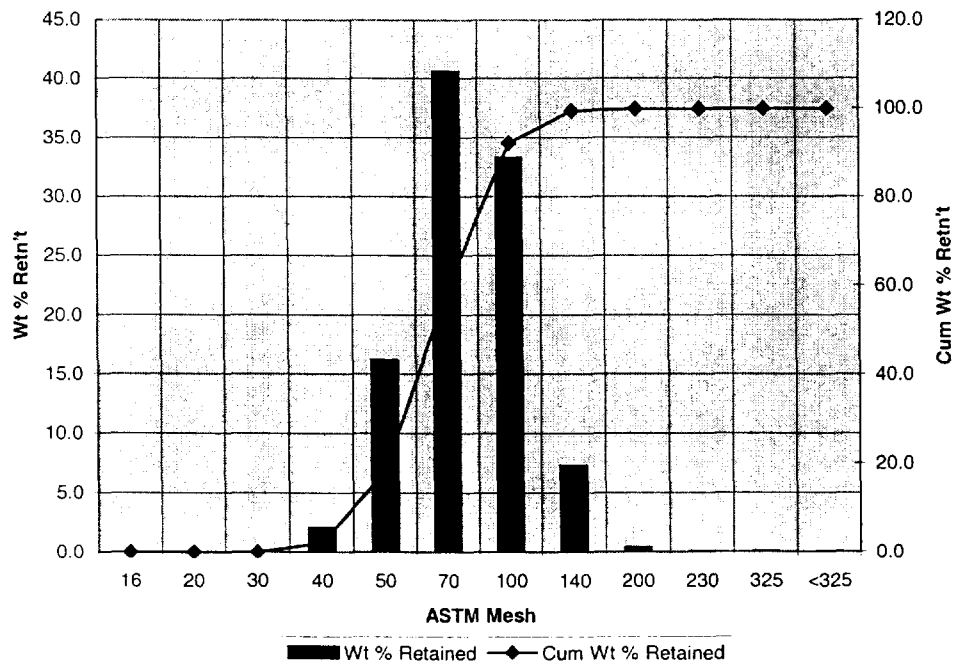
Sample Description:

Sample 1: International Broadlands Petalite; 5-14-99

Folder No.: 22298-99

ASTM Mesh	Tyler Mesh	Opening microns	Wt % Retained	Cum Wt % Retained
16	14	1180	0.0	0.0
20	20	850	0.0	0.0
30	28	600	0.0	0.0
40	35	425	2.0	2.1
50	48	300	16.2	18.2
70	65	212	40.6	58.8
100	100	150	33.3	92.1
140	150	106	7.3	99.4
200	200	75	0.4	99.8
230	250	63	0.1	99.9
325	325	45	0.1	99.9
<325	<325	<45	0.0	99.9

<0.1 retained



LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**2 . 2 0 8 8 6****Exhibit B : Trial Glass Melts**

## Sample Description:

Sample 1: International Broadlands Petalite; 5-14-99

Three glass melts were made using the customer supplied petalite. One melt was batched to yield a Corning Ware base pyroceram glass, another to yield a clear cooktop type glass and a third to yield a common soda lime glass (such as that used in container glass) with 0.3 Wt.% Li<sub>2</sub>O. The petalite proportions used in each batch were as follows:

Corning Ware Batch – 741.9 gms Petalite per total batch of 1018 gms

Clear Cooktop Batch – 763.4 gms Petalite per total batch of 1018 gms

Soda Lime with 0.3% Li<sub>2</sub>O Batch – 54.7 gms Petalite per total batch of 1000gms

These melts were poured into patties and annealed. A portion of each patty was cut off to yield glass for testing. The remaining patty portions have been shipped to you under separate cover. Your petalite yielded glass of acceptable visual quality. Analysis of certain glass properties will follow at the end of this section. Evaluation of the results of these property measurements indicates acceptable glass quality in all three cases.

LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**2 . 2 0 8 8 6****Exhibit B : Trial Glass Melts  
Powder Alkalinity**

Sample Description:

Sample 1: Corning Ware

Sample 2: Transparent Cooktop

Sample 3: Soda Lime (0.3%Li<sub>2</sub>O)

Folder No.: 23058-99

<u>Oxide</u>	<u>Sample 1</u> <u>(Wt%)</u>	<u>Sample 1</u> <u>(Wt%)</u>	<u>Sample 1</u> <u>(Wt%)</u>	<u>Test Method</u>
H <sub>2</sub> SO <sub>4</sub>	0.44	0.44	6.3	USPI

Legend:USPI: USPI Powder Durability (reported in mls 0.02 N H<sub>2</sub>SO<sub>4</sub>)



LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

2.20886**Exhibit B : Trial Glass Melts  
Physical Properties Analysis**

Sample Description:

Sample 1: Corning Ware

Sample 2: Transparent Cooktop

Sample 3: Soda Lime (0.3%Li<sub>2</sub>O)

Folder No.: 23058-99

<u>Determination</u>	<u>Sample 1</u>	<u>Sample 2</u>	<u>Sample 3</u>	<u>Test Method</u>
Softening Point (°C)	-	-	726	ASTM C338
Anneal Point (°C)	696	669	551	ASTM C336
Strain Point (°C)	643	622	508	ASTM C336
Expansion Coefficient (x10 <sup>-7</sup> /°C)	36.2	37.6	87.1	ASTM E228
Density (gm/cm <sup>3</sup> )	2.442	2.423	2.501	ASTM C693

LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

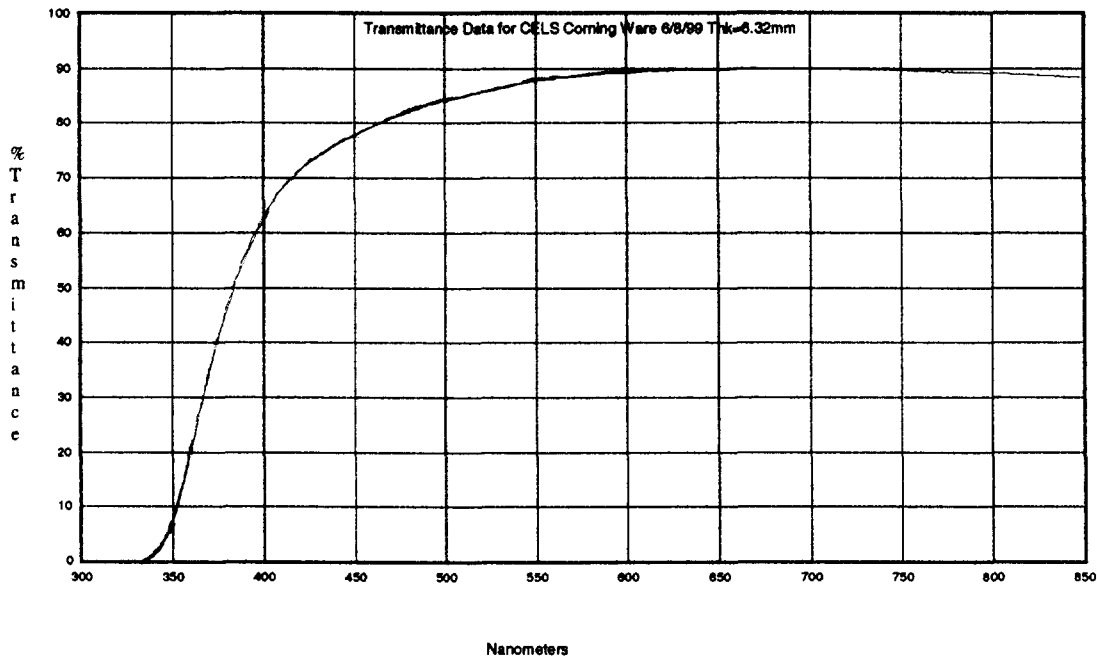
2.20886

**Exhibit B : Trial Glass Melts  
Transmittance Curve**

Sample Description:

Sample 1: Corning Ware

Folder No.: 23058-99



LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

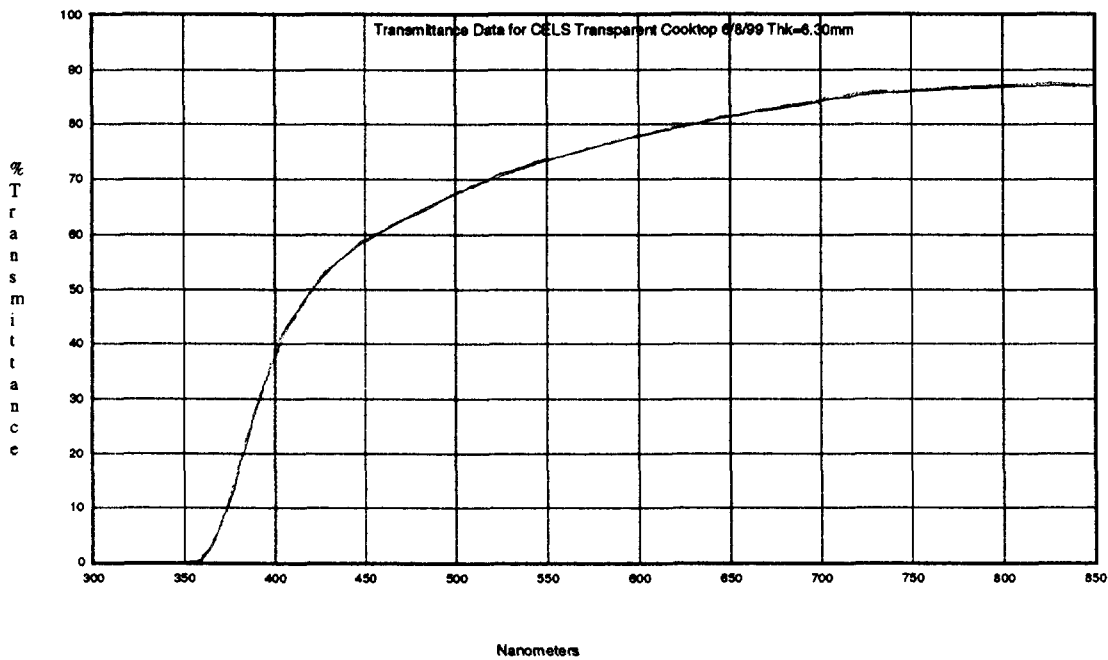
2.20886

**Exhibit B : Trial Glass Melts  
Transmittance Curve**

Sample Description:

Sample 2: Transparent Cooktop

Folder No.: 23058-99



LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

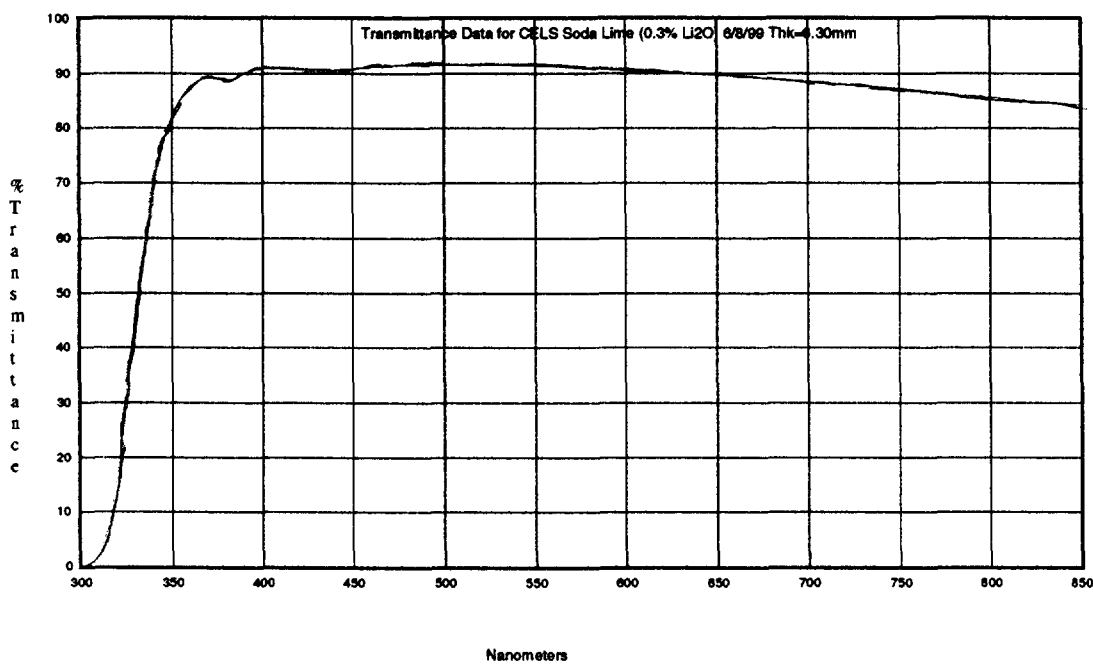
2.20886

**Exhibit B : Trial Glass Melts  
Transmittance Curve**

Sample Description:

Sample 3: Soda Lime (0.3%Li<sub>2</sub>O)

Folder No.: 23058-99



LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

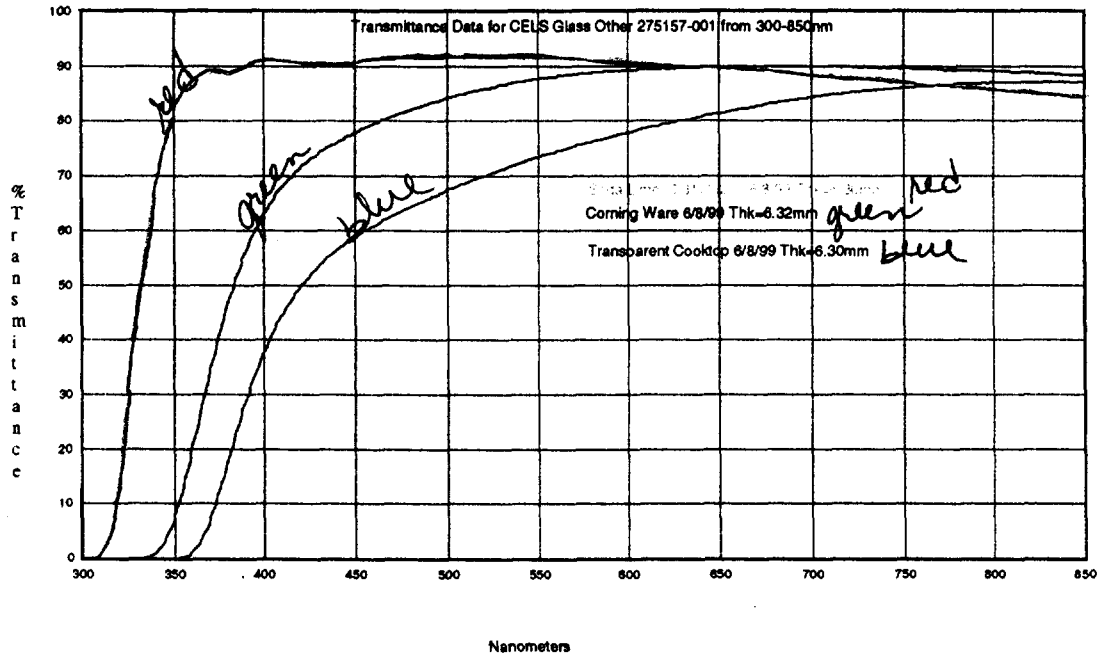
200086

**Exhibit B : Trial Glass Melts  
Transmittance Curve**

**Sample Description:**

- Sample 1: Corning Ware
- Sample 2: Transparent Cooktop
- Sample 3: Soda Lime (0.3%Li<sub>2</sub>O)

Folder No.: 23058-99



LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**2.20886****Exhibit B : Trial Glass Melts****Transmittance Curve Data**

300-850nm

<u>Wavelength(nm)</u>	<u>Corning Ware</u>	<u>Transparent Cooktop</u>	<u>Soda Lime(0.3% Li2O)</u>
	6/8/99 Thk=6.32mm	6/8/99 Thk=6.30mm	6/8/99 Thk=6.30mm
	<u>Transmittance(%)</u>	<u>Transmittance(%)</u>	<u>Transmittance(%)</u>
300	0.00	0.00	0.05
305	0.00	0.00	0.43
310	0.00	0.00	2.32
315	0.00	0.00	7.69
320	0.00	0.00	17.80
325	0.00	0.00	31.47
330	0.02	0.00	45.93
335	0.21	0.00	58.87
340	1.11	0.00	69.33
345	3.49	0.00	76.91
350	7.72	0.02	82.03
355	13.54	0.26	85.37
360	20.42	1.25	87.52
365	27.67	3.65	88.79
370	34.77	7.60	89.33
375	41.25	12.68	88.98
380	47.05	18.33	88.54
385	52.09	23.97	89.19
390	56.42	29.26	90.09
395	60.12	33.98	90.70
400	63.22	38.10	90.93
405	65.83	41.69	90.98
410	68.08	44.75	90.88
415	69.90	47.40	90.81
420	71.52	49.71	90.74
425	72.94	51.73	90.76
430	74.13	53.49	90.74
435	75.21	55.06	90.67
440	76.17	56.44	90.65
445	77.07	57.66	90.71
450	77.93	58.82	90.84
455	78.71	59.87	90.99
460	79.46	60.86	91.13
465	80.20	61.81	91.21
470	80.86	62.68	91.26
475	81.48	63.52	91.35
480	82.08	64.34	91.38

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LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**Exhibit B : Trial Glass Melts****Transmittance Curve Data**

2.20886

300-850nm

<u>Wavelength(nm)</u>	<u>Corning Ware</u>	<u>Transparent Cooktop</u>	<u>Soda Lime(0.3% Li2O)</u>
	<u>6/8/99</u> <u>Thk=6.32mm</u>	<u>6/8/99</u> <u>Thk=6.30mm</u>	<u>6/8/99</u> <u>Thk=6.30mm</u>
	<u>Transmittance(%)</u>	<u>Transmittance(%)</u>	<u>Transmittance(%)</u>
485	82.64	65.18	91.43
490	83.20	65.90	91.47
495	83.72	66.67	91.46
500	84.22	67.37	91.52
505	84.63	68.02	91.56
510	85.07	68.70	91.59
515	85.50	69.37	91.63
520	85.82	69.98	91.58
525	86.19	70.57	91.59
530	86.57	71.20	91.61
535	86.90	71.80	91.60
540	87.15	72.32	91.54
545	87.47	72.88	91.52
550	87.71	73.42	91.52
555	87.90	73.91	91.50
560	88.15	74.44	91.42
565	88.38	74.94	91.38
570	88.51	75.38	91.25
575	88.67	75.84	91.17
580	88.81	76.31	91.10
585	88.94	76.69	90.98
590	89.05	77.14	90.89
595	89.16	77.54	90.80
600	89.33	77.93	90.76
605	89.40	78.31	90.65
610	89.45	78.69	90.53
615	89.54	79.08	90.47
620	89.59	79.42	90.32
625	89.60	79.77	90.18
630	89.65	80.14	90.07
635	89.71	80.48	89.96
640	89.77	80.81	89.87
645	89.80	81.16	89.78
650	89.82	81.45	89.60
655	89.85	81.83	89.53
660	89.86	82.10	89.43
665	89.91	82.43	89.32

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LABORATORY ANALYSIS REPORT

CELS Client No.: 275157-001

**Exhibit B : Trial Glass Melts****Transmittance Curve Data**

300-850nm

**2 . 2 0 8 8 6**

<b>Corning Ware</b>	<b>Transparent Cooktop</b>	<b>Soda Lime(0.3% Li2O)</b>
<b>6/8/99</b>	<b>6/8/99</b>	<b>6/8/99</b>
<b>Thk=6.32mm</b>	<b>Thk=6.30mm</b>	<b>Thk=6.30mm</b>

<u>Wavelength(nm)</u>	<u>Transmittance(%)</u>	<u>Transmittance(%)</u>	<u>Transmittance(%)</u>
670	89.91	82.72	89.19
675	89.91	82.99	89.08
680	89.95	83.31	89.04
685	89.91	83.56	88.81
690	89.92	83.78	88.68
695	89.92	84.09	88.59
700	89.93	84.34	88.43
705	89.92	84.57	88.34
710	89.89	84.78	88.20
715	89.92	84.97	88.09
720	89.86	85.20	87.96
725	89.82	85.33	87.79
730	89.82	85.51	87.64
735	89.68	85.63	87.48
740	89.73	85.83	87.36
745	89.70	85.96	87.20
750	89.66	86.13	87.05
755	89.63	86.25	86.92
760	89.57	86.33	86.71
765	89.50	86.44	86.59
770	89.47	86.57	86.46
775	89.48	86.61	86.33
780	89.39	86.76	86.18
785	89.29	86.71	85.97
790	89.29	86.87	85.89
795	89.19	86.92	85.73
800	89.05	86.91	85.53
805	89.09	86.98	85.38
810	88.96	87.04	85.32
815	88.83	86.99	85.08
820	88.78	87.11	84.98
825	88.83	87.11	84.89
830	88.71	87.17	84.80
835	88.55	87.16	84.56
840	88.49	87.09	84.43
845	88.40	87.07	84.32
850	88.31	87.09	83.99

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Metallurgical Testing of Petalite  
from the Big Mack Pegmatite

Addendum to : Report on Diamond Drilling  
Separation Rapids Area  
Northwest, Ontario  
Paterson Lake Claim Area, G - 2634  
February 6, 2001

For:

Emerald Fields Resource Corporation  
1546 Pine Portage Road  
Kenora, Ontario  
P9N 2K2

**2.20886**

By :

A.P. Pryslak and A.J.M. Mowat

*A.P. Pryslak*  
*June 22/2001*

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PATERSON LAKE

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- addendum to Drilling Report -

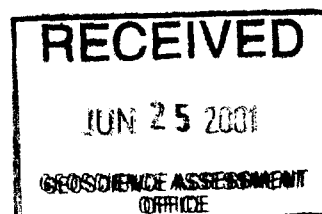
Discussion: The Location, geology and results of diamond drilling were presented in a report on diamond drilling by A.P. Pryslak. Detailed geological studies were also presented by Breaks (2000). The general geology and Location of the Separation Lake area are taken from Breaks and illustrated here as figures 25-1 and 25-2.

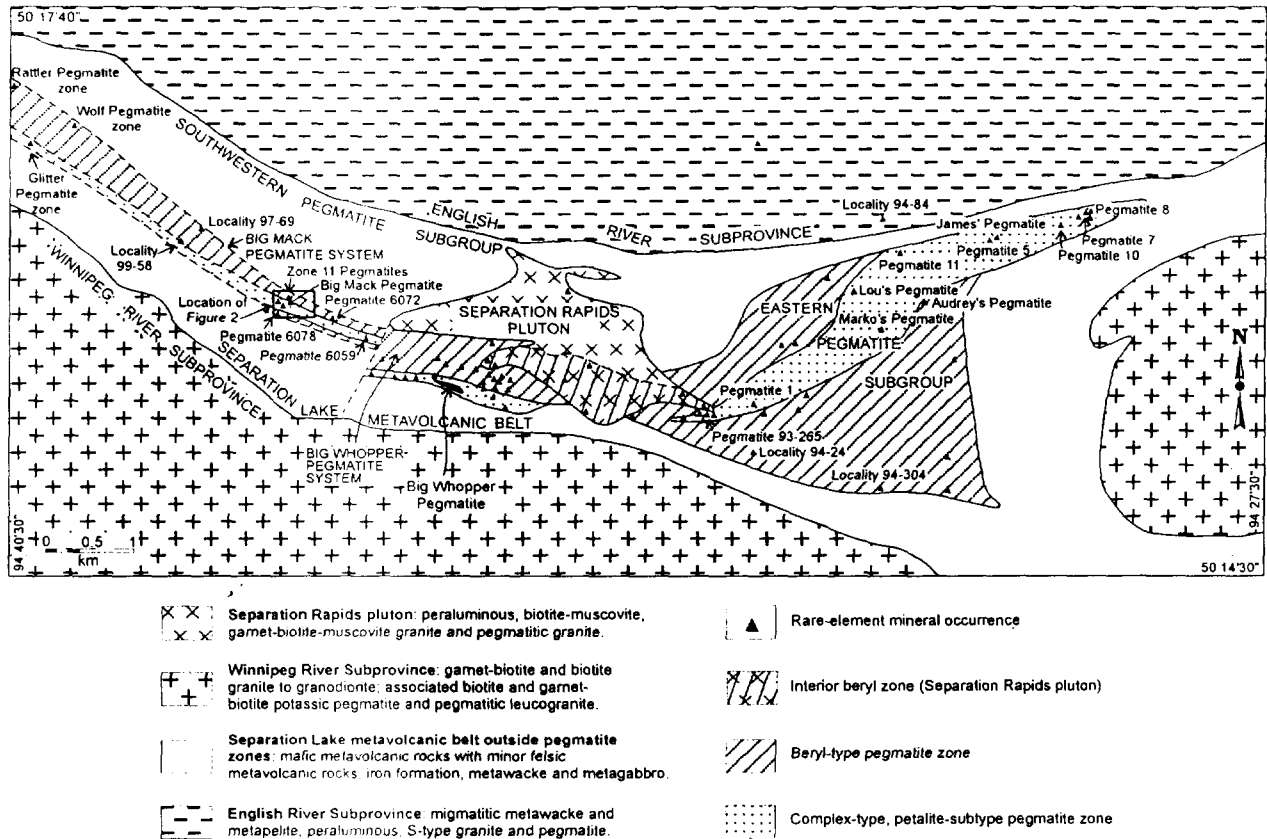
The trench location shown in 25-2 is also shown in Pryslak's drill report and is presented here as figure 2001-1. The Trench was blasted over a width of 2-3 metres and a depth of approximately 1.0 metre. A five tonne sample was collected over the entire length of the trench (25 metres) by random selection of blast rock. The sample was collected into wooden crates and shipped to International Metallurgical of Kelona B.C. for processing.

International Metallurgical processed the trench samples by standard methodology in crushing and grinding and separating the petalite from the remaining minerals comprising the Big Mack Pegmatite. The petalite concentrate was subsequently sent to CELS for analysis and glass product testing. The results of this phase of the testing is presented in the appended report, date June 25, 1999. The author, W.J. Wallding is Technology Manager for Corning Laboratory Services (CELS).

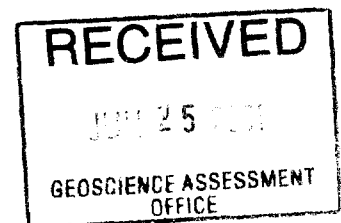
Reference: Breaks (2000)

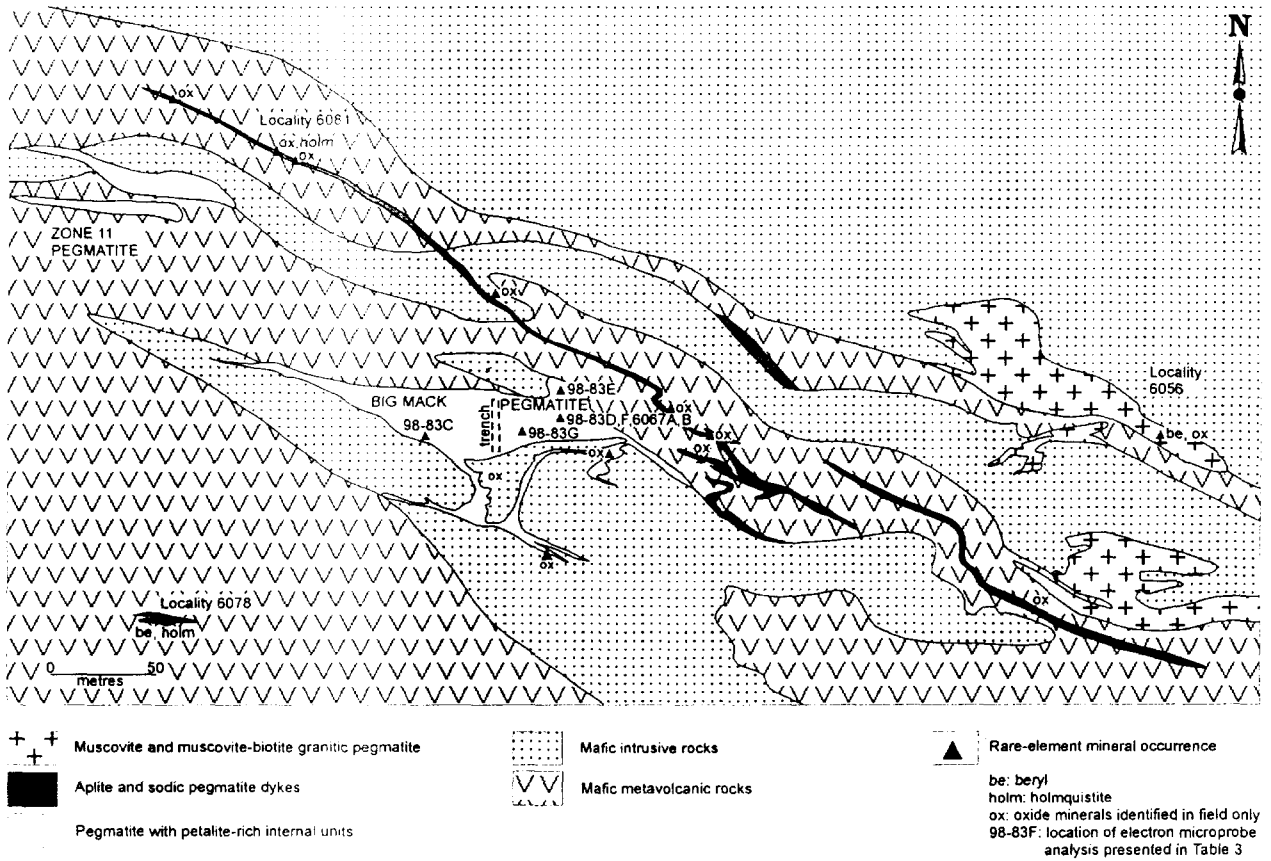
Pryslak, A.P. (2001) filed for assessment – February, 2001





**Figure 25.1.** Distribution of rare-element pegmatite mineralization of the Separation Rapids pegmatite group. General geology of the Separation Lake metavolcanic belt and adjacent parts of the English River and Winnipeg River subprovinces modified from Blackburn and Young (1994a,b).





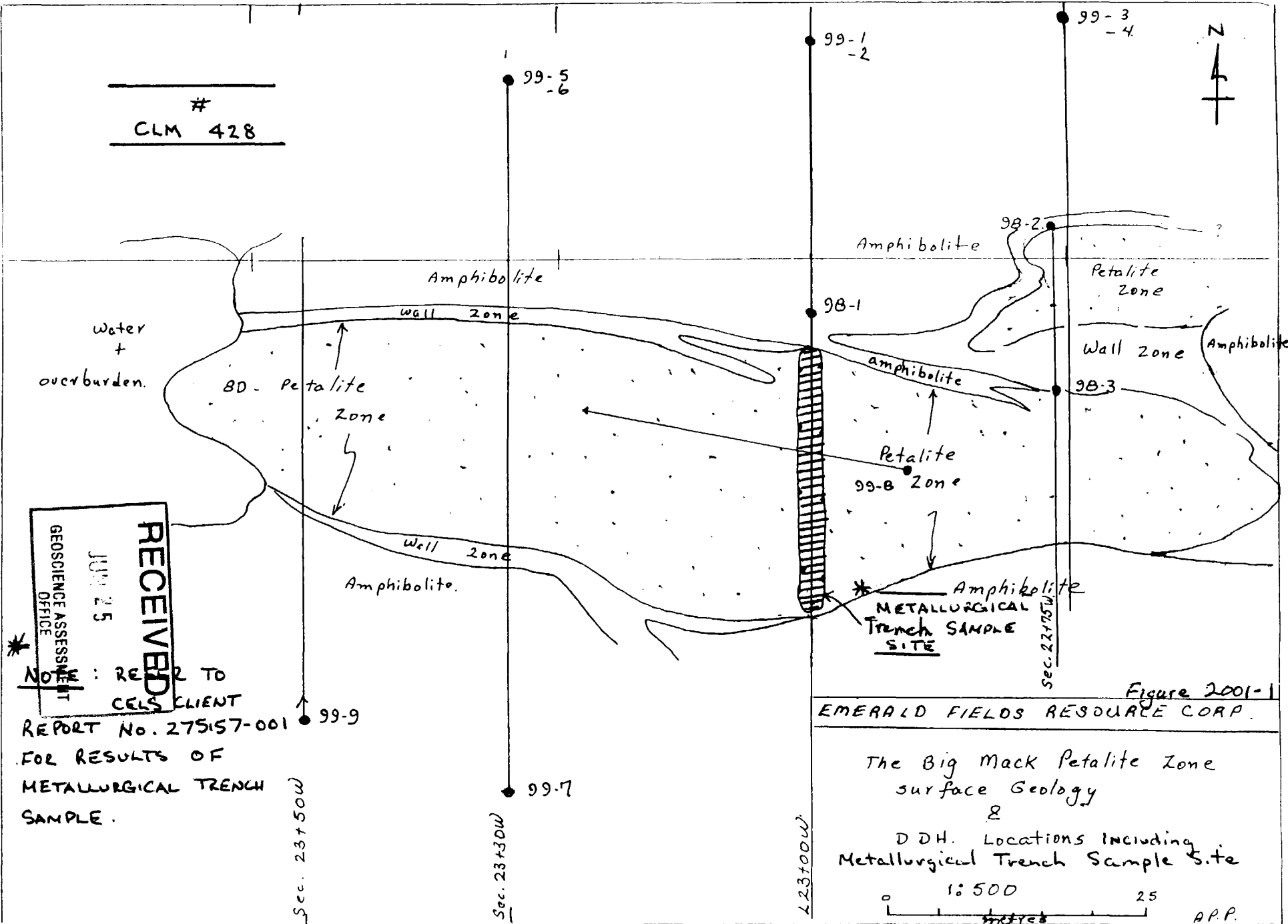
**Figure 25.2.** Detailed geology and rare-element mineral occurrences of the eastern part of the Big Mack pegmatite system, based upon 1:1000 scale geological mapping by A.Pryslak (unpublished consultative work undertaken for Emerald Fields Resource Corporation). Location of Figure 25.2 given in Figure 25.1.

*Note: Trench Location for metallurgical work.  
Shown as: 1;*

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OFFICE

METALLURGICAL TRENCH SAMPLE SITE PLAN No. 3

#  
CLM 428



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 JUN 25  
 GEOSCIENCE ASSESSMENT  
 OFFICE

\*NOT RECD TO  
 CELS CLIENT  
 REPORT No. 275157-001  
 FOR RESULTS OF  
 METALLURGICAL TRENCH  
 SAMPLE.

Figure 2001-1  
 EMERALD FIELDS RESOURCE CORP.

The Big Mack Petalite Zone  
 surface Geology  
 &  
 D.D.H. Locations Including  
 Metallurgical Trench Sample Site

1:500  
 25  
 meters  
 A.P.P.

# Separation Rapids Rare-Metals Project



A cross-section view of the "Big Mack" pegmatite dyke during overburden removal.

An aerial view of a portion of the property. Showing mechanical stripping on the "Big Mack" in the background - other dykes in the foreground.



Longitudinal view of the "Big Mack" during bulk sampling.



**EMERALD FIELDS  
RESOURCE CORPORATION**

1546 Pine Portage Road, Kenora, Ontario P9N 2K2  
PH: 807-468-7374 FAX: 807-468-9792 E-MAIL: emerald@voyageur.ca

**RECEIVED**

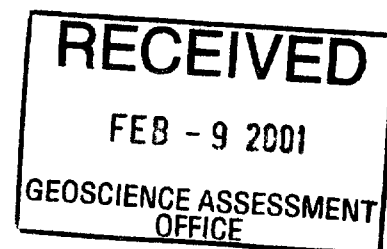
JUN 25

**GEOSCIENCE ASSESSMENT  
OFFICE**

REPORT ON DIAMOND DRILLING  
SEPARATION RAPIDS AREA, NORTHWEST ONTARIO  
PATERSON LAKE CLAIM SHEET , G-2634

EMERALD FIELDS RESOURCE CORPORATION

1546 Pine Portage Road  
Kenora, Ontario P9N 2K2



2.20886

A,P.PRYSLAK  
15 Hunterspoint Road  
Winnipeg, Manitoba R3R 3B6

February 6, 2001



52L07SE2007 2.20886

PATERSON LAKE

030

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- Appendix No. 2; Diamond Drill Sections
- Appendix No. 3; Assay and Geochem Results
- Appendix No. 4; Perimeter Survey Plan





## INTRODUCTION

Two separate diamond drill programs were undertaken by Emerald Fields Resource Corporation to test the "Big Mack" rare metal pegmatite. A three hole program was carried out in the summer of 1997 utilizing a portable drill owned by the Corporation. The drill cut AW sized core and the three holes totalled 103.8 metres. The time and effort spent on this program proved to be inefficient and the subsequent drill program was contracted out.

An eleven hole program, totalling 1156.7 metres was carried out in the period of May 10 to June 5, 1999. This job was contracted to Kenora Soil and Drilling of Kenora, Ontario. This core was BQ in size.

Both drill programs were supervised by A. Mowat of Kenora, Ontario. The core from both programs is stored at Emerald fields office in Kenora.

Preliminary core logging was carried out at the time of drilling by various personal. The author was contracted to re-log all drill core in July of 1999 and to carry out a geological mapping program in the vicinity of the 'Big Mack' petalite deposit. This report will deal only with the drill programs.

## Claim Group

The Separation Rapids property is wholly owned by Emerald Fields Resource Corporation. The Corporation's land holdings are extensive, comprising of 47 claim blocks that extend from the Separation Rapids area, west to the Manitoba-Ontario border. The drill programs were carried out on two claims: K 1178427 and K 1149784. A perimeter survey was carried out in August, 1999 on these two claims and claims K 1149785 and K 1149786. This package of four claims was brought to lease as claim CLM 428. The survey was carried out by W.J. Bowman Ltd. of Dryden, Ontario.

## TABLE NO.1 : CLAIM LIST

Table No. 1 lists the 47 contiguous claim blocks in the Separation Rapids area.

Township/Area	Claim Number	Location Date	Expiry Date	Status	Percent Option	Work Required	Total Applied	Total Reserve	Claim Bank
Paterson Lake	K1149784	August 16, 1996	August 16, 2004	A	100% N	1350	9850	17761	0
Paterson Lake	K1149785	August 16, 1996	August 16, 2004	A	100% N	550	5050	0	0
Paterson Lake	K1149786	August 16, 1996	August 16, 2004	A	100% N	550	5050	0	0
Paterson Lake	K1178427	August 16, 1996	August 16, 2004	A	100% N	1900	14900	43512	0
Paterson Lake	K1178880	March 3, 1997	March 3, 2005	A	100% N	1600	9600	0	0
Paterson Lake	K1178881	March 3, 1997	March 3, 2004	A	100% N	385	2015	0	0
Paterson Lake	K1178882	March 3, 1997	March 3, 2005	A	100% N	1200	7200	0	0
Paterson Lake	K1178883	March 3, 1997	March 3, 2005	A	100% N	2400	14400	0	0
Paterson Lake	K1178884	March 3, 1997	March 3, 2004	A	100% N	378	2022	0	0
Paterson Lake	K1220417	November 21, 1997	November 21, 2005	A	100% N	2400	14400	0	0
Paterson Lake	K1220418	November 21, 1997	November 21, 2005	A	100% N	1600	9600	0	0
Paterson Lake	K1220421	August 27, 1998	August 27, 2004	A	100% N	1600	6400	0	0
Paterson Lake	K1220424	November 21, 1997	November 21, 2005	A	100% N	6400	38400	0	0
Paterson Lake	K1220425	November 21, 1997	November 21, 2005	A	100% N	2400	14400	0	0
Paterson Lake	K1220419	March 31, 2002	March 31, 2002	A	100% N	4575	225	0	0
Paterson Lake	K1233592	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Paterson Lake	K1233593	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Paterson Lake	K1233594	February 9, 1999	February 9, 2001	A	100% N	3200	0	0	0
Paterson Lake	K1233595	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Paterson Lake	K1233596	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Paterson Lake	K1233597	February 9, 1999	February 9, 2001	A	100% N	5600	0	0	0
Paterson Lake	K1233598	February 9, 1999	February 9, 2001	A	100% N	3200	0	0	0
Paterson Lake	K1233614	May 5, 1999	May 5, 2001	A	100% N	4800	0	0	0
Paterson Lake	K1233604	February 9, 1999	February 9, 2001	A	100% N	3200	0	0	0
Reynar Lake	K1233573	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Reynar Lake	K1233574	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Reynar Lake	K1233575	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Reynar Lake	K1233576	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Reynar Lake	K1233577	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Reynar Lake	K1233578	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Reynar Lake	K1233579	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Reynar Lake	K1233580	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Umfreville Lake	K1233586	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Umfreville Lake	K1233587	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Umfreville Lake	K1233588	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Umfreville Lake	K1233589	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Umfreville Lake	K1233590	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
Umfreville Lake	K1233591	February 9, 1999	February 9, 2001	A	100% N	2400	0	0	0
Umfreville Lake	K1233600	February 9, 1999	February 9, 2001	A	100% N	1600	0	0	0
Umfreville Lake	K1233601	February 9, 1999	February 9, 2001	A	100% N	1600	0	0	0
Umfreville Lake	K1233602	February 9, 1999	February 9, 2001	A	100% N	1600	0	0	0
Umfreville Lake	K1233603	February 9, 1999	February 9, 2001	A	100% N	1600	0	0	0
West of Umfreville Lake	K1233581	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
West of Umfreville Lake	K1233582	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
West of Umfreville Lake	K1233583	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
West of Umfreville Lake	K1233584	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0
West of Umfreville Lake	K1233585	February 9, 1999	February 9, 2001	A	100% N	6400	0	0	0

## LOCATION AND ACCESS

The property is located approximately 75 kilometres north of Kenora, Ontario. Access to the claim area is by Highway 658 from Kenora to Reddit, then continuing north via the English River Road ( a gravel surfaced, all-weather logging road) to the Sand Lake logging road and the Snook Lake road. A new section of road has recently been completed that connects the Big Mack petalite deposit with the Sand Lake Road at kilometre 7.0 .

## PREVIOUS WORK

The Separation Lake Greenstone Belt has received a fair amount of attention in exploration for its base and precious metal potential and some limited work in evaluating the uranium potential of some of the granitic intrusions. The rare metal pegmatites became prime exploration targets in 1996, following the release of Open File Report OFR-5946 by Breaks and Tindle (OGS-MNDM).

The history of mineral exploration and geological work are described in detail by Blackburn and Young in the OGS publication OFR 6001 (see references section).

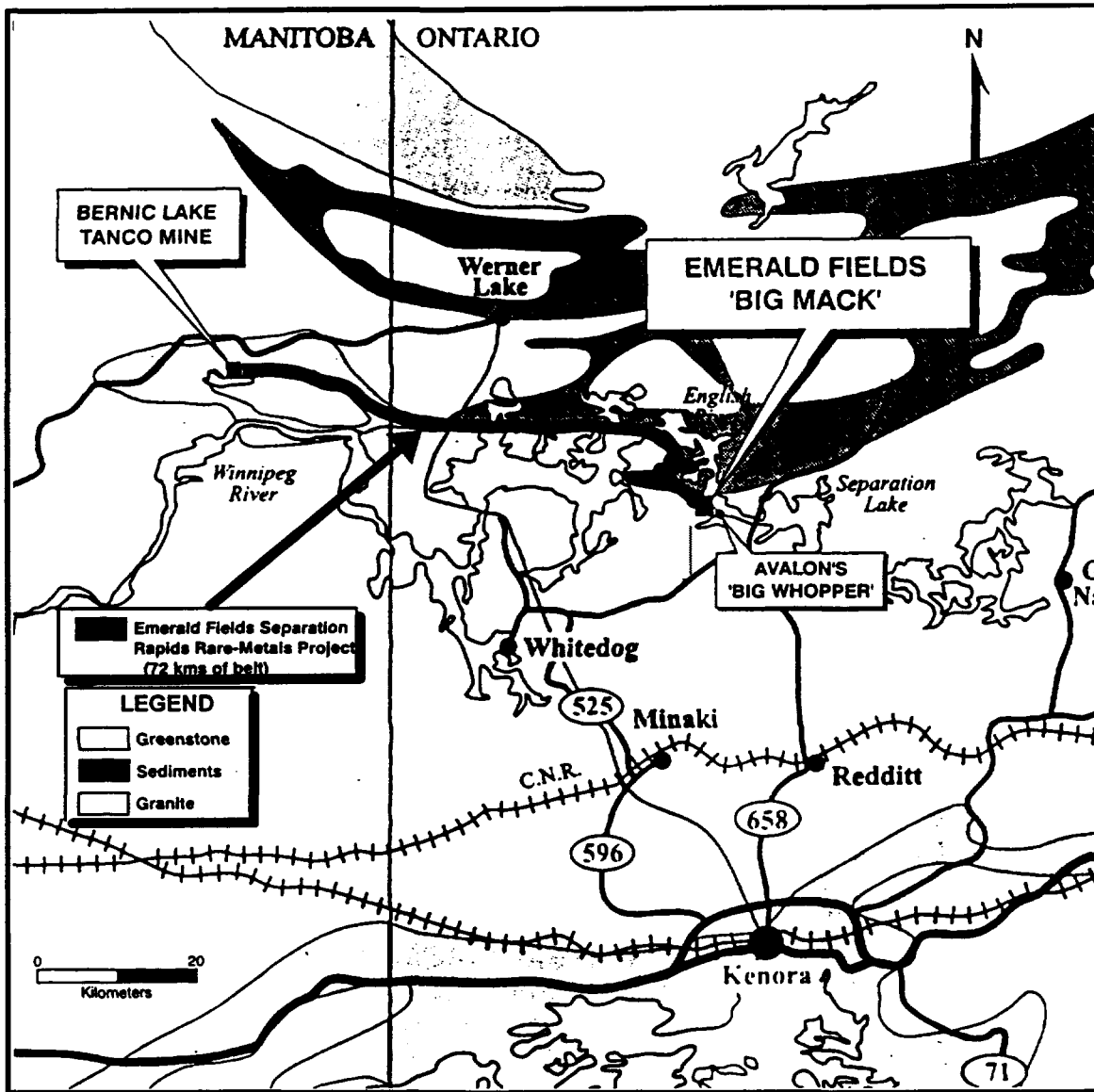
Following the release of OFR 5946 in 1996, two principals of the Corporation, P. Thorgrimson and A. Mowat staked the northern and western portions of the rare metal pegmatite field. A total of 49 samples were collected of pegmatite and host amphibolite lithologies in 1997 under an OPAP grant. Two of the assayed samples returned high values in lithium, leading to the identification of petalite mineralization. As a result of these discoveries, Emerald Fields Resource Corporation, a private company, was incorporated on October 6, 1997.

## REGIONAL GEOLOGY

The Separation Rapids property is closely associated with the Separation Lake Greenstone Belt. This Archean suite of metavolcanic-metasedimentary rocks is part of the Superior Province which constitutes the boundary zone between the metasedimentary dominant English River Subprovince to the north and the granite-tonalite dominant Winnipeg River Subprovince to the south. The Separation lake metavolcanic-metasedimentary belt is correlative with the Bird River Belt of Manitoba.

The Bird River Greenstone Belt is host to the Winnipeg River-Cat Lake pegmatite field that includes Tanco's producing mine at Bernic Lake, Manitoba. The separation Lake Greenstone Belt is host to the Separation Rapids pegmatite field and associated plutons.

The Bird River-Separation Lake Greenstone Belts are comprised



Location of Emerald Fields Resource Corporation's Separation Lake Project

largely of mafic volcanics and derived volcani-clastic sediments. Minor constituents include rhyolite, chert, oxide and sulphide facies iron formations and synvolcanic gabbro intrusions. Granite, granite pegmatite, pegmatite and aplitic intrusions invade all of the supracrustal lithologies and exhibit a wide range of mineralogical and textural fabric. All of the lithologies have undergone metamorphism to the middle amphibolite grade.

The structural history of the Separation Lake Greenstone Belt has not been studied in detail. Several folding events and a high strain shear event are known to have affected the rocks in the area. The reader is encouraged to review Blackburn and Young's analyses in OFR 6001.

#### PROPERTY GEOLOGY

The property under discussion ( surveyed claim CLM 428 ) lies within the Western pegmatite Field as defined by Breaks and Tindle. The Big Mack pegmatite is the largest petalite type intrusion found within this area to-date and was the target for the diamond drilling programs that are the focus of this report. The geology of this same area will be described in detail in a subsequent report.

Field and mineralogical features of the Big Mack pegmatite bear a similarity to the other petalite type pegmatites in the area, including one that is known as the Big Whopper. This dike lies about 400 metres to the southeast of the Big Mack on ground held by Avalon Ventures. The descriptions by Breaks and Tindle of this deposit serve to adequately describe the mineralogical features of the Big Mack pegmatite.

The Big Mack pegmatite has a strike length of 150 metres and a maximum width of 30 metres; the long axis oriented at 100 degrees. The dike has been complexly folded by a series of isoclinal folds with an S-symmetry. Primary banded albitic sections define some of these fold features but late post folding albitization is also present and is best observed in the wall zones and areas proximal to inclusions. This younger albitic event tends to obliterate features associated with the folding event. Further detail on the geology of the Big Mack petalite deposit will be provided in the geological report.

#### DIAMOND DRILL PROGRAMS AND RESULTS

The first program was carried out in June of 1998. Three short holes were completed with a small portable drill owned by the Corporation. These three holes totalled 103.8 metres and produced AW sized core. The purpose of this program was to determine the mineralogical nature of the Big Mack pegmatite and to provide samples for assaying. The core from these drill holes revealed a

petalite component of 25-30%. The drill logs and assay reports are appended to this report.

The encouraging results of the above drill program lead to a second phase of drilling in May-June of 1999. A total of 1156.7 metres were drilled in eleven holes; nine of these drill holes were targeted on the Big Mack dike and the remaining two holes were targeted on the zone eleven dike. The work was contracted to Kenora Soil and Drilling of Kenora, Ontario.

Overall the Big Mack pegmatite contains an estimated 30% petalite. Quartz, blocky K-spars, albite and a variety of micas form the other major constituents. Minor constituents include beryl, eucryptite, bikitaite, crysoberyl, garnet and tin-tantalum oxide minerals. A detailed description of the Big Mack is given in several publications by Breaks and Tindle.

#### CONCLUSIONS

The Big Mack pegmatite was originally a dike of one to five metres in width that has been isoclinally folded and compressed into its present lenticular form at surface. A second period of folding may have deformed this lens into a series of more open folds in the vertical dimension. This is interpreted from the results on section 23+30W, where drill hole 99-7 scissored holes 99-5 and 6. Additional drilling is required to resolve this structural problem and to define the full potential of the Big Mack pegmatite for its petalite and tantalum mineralization.

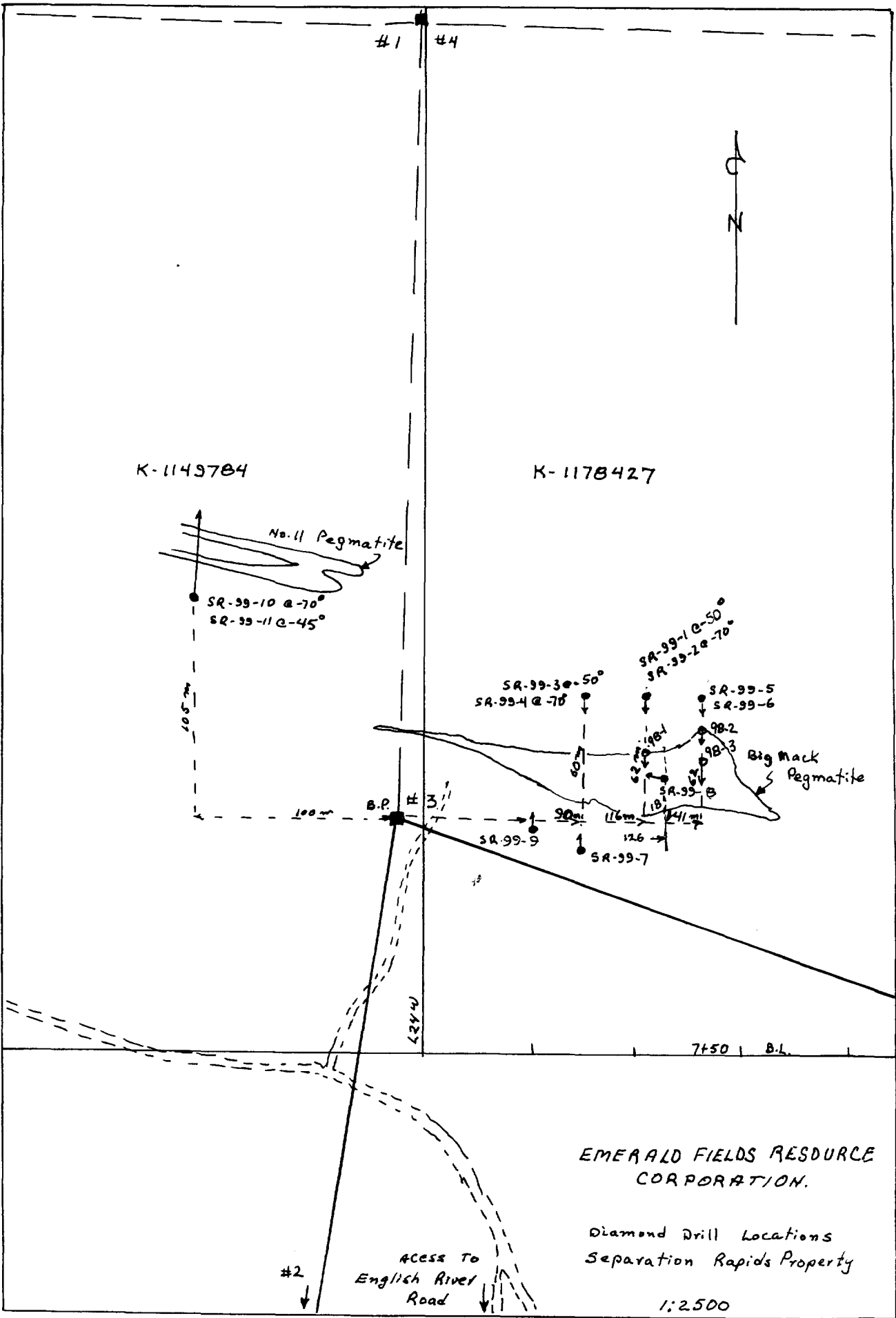
#### RECOMMENDATIONS

It is recommended that a detailed drilling program be carried out to define the petalite zones of the Big Mack and Zone Eleven dikes to a depth of one hundred metres. It is estimated that this program would require approximately 2000 metres of coring.

TABLE NO.2

SEPARATION RAPIDS PROPERTY  
1998 & 1999 DIAMOND DRILL SUMMARY

HOLE No.	dip	Az.	Depth(m)	Drill date	Log date
EMR98-1	-45	180	39.6	June 4-7/98	July 14/99
EMR98-2	-45	180	30.6	June 8-12/98	July 15/99
EMR98-3	-45	180	33.6	June 13-18/98	July 15/99
EMR99-1	-50	184	75.3	May 10-13/99	July 8/99
EMR99-2	-70	184	119.0	May 13-16/99	July 8/99
EMR99-3	-50	180	87.5	May 16-19/99	July 9/99
EMR99-4	-70	180	121.0	May 19-21/99	July 9/99
EME99-5	-50	180	90.5	May 21-23/99	July 10/99
EMR99-6	-70	180	142.3	May 23-25/99	July 10/99
EMR99-7	-60	360	124.1	May 25-27/99	July 11/99
EMR99-8	-80	280	153.3	May 28-31/99	July 11/99
EMR99-9	-58	360	96.7	June 1-3/99	July 12/99
EMR99-10	-70	004	55.1	June 4-5/99	July 12/99
EMR99-11	-45	004	91.1	June 5-7/99	July 16/99
Total metres:			1260.5		



K-1149704

K-1178427

No. 11 Pegmatite

SR-99-10 @ 70°  
SR-99-11 @ 45°

SR-99-3 @ 50°  
SR-99-4 @ 78°

SR-99-1 @ 50°  
SR-99-2 @ 70°

SR-99-5  
SR-99-6

Big Mack Pegmatite

B.P. #3

SR-99-9  
SR-99-7

7+50 B.L.

EMERALD FIELDS RESOURCE CORPORATION.

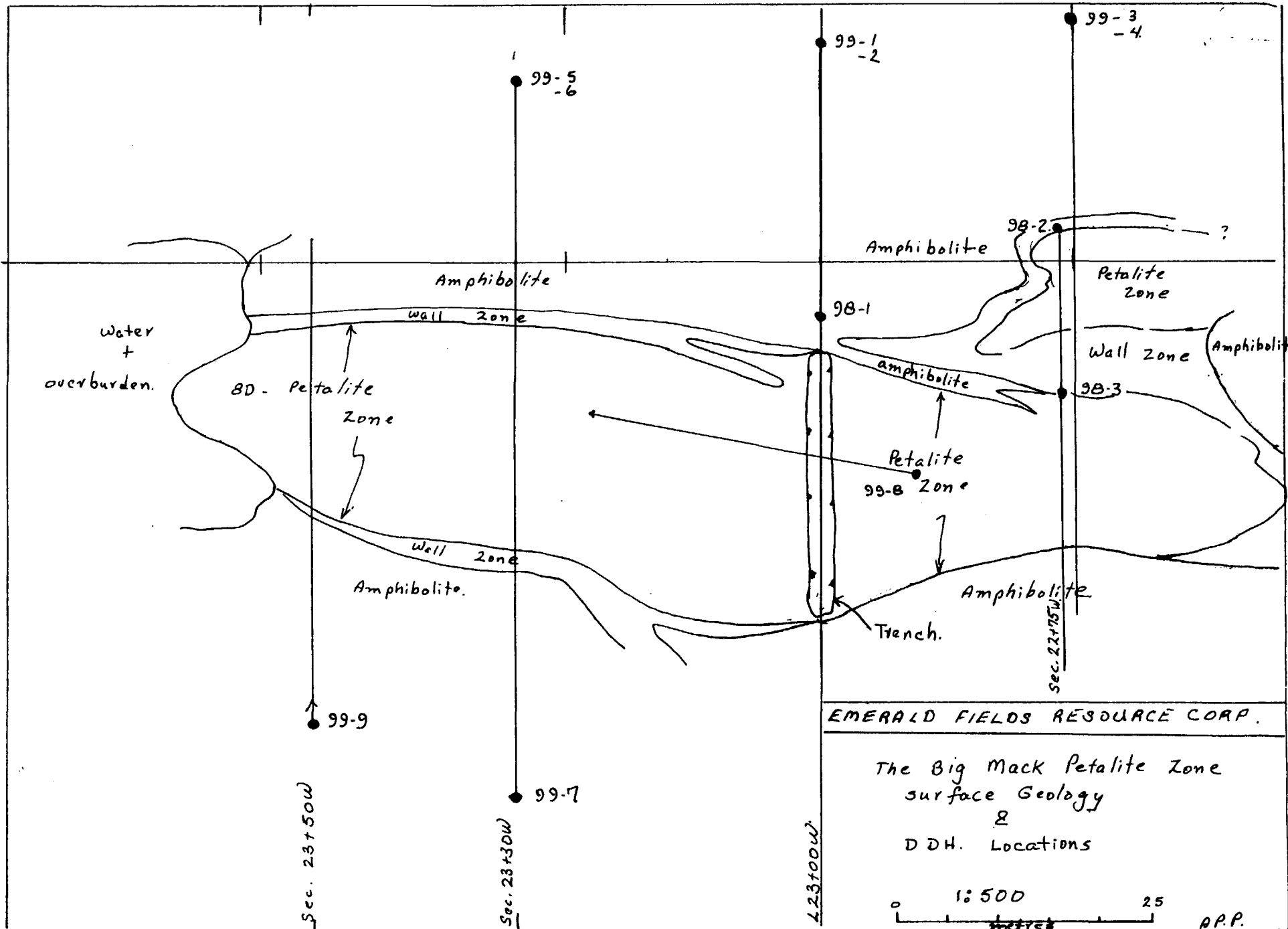
Diamond Drill Locations  
Separation Rapids Property

1:2500

ACCESS TO  
English River  
Road

#2





## REFERENCES

Blackburn, C.E. and Young, J.B., 2000: Geology of the Separation Lake Greenstone Belt, Ontario Geological Survey, Open File Report 6001.

Breaks, F.W. and Tindle, A.G., 1996: New Discovery of Rare-Element Pegmatite Mineralization, Separation Rapids Area, Northwestern Ontario; Ontario Geological Survey, Open File Report 5946.

Breaks F. W. and Tindle, A.G., 1997: Rare-Metal Potential of the Separation Rapids Area: an emerging target for Bikita-type mineralization in the Superior Province of NW Ontario.

Tindle A.G. and Breaks, F.W., 2000: Tantalum Mineralogy of Rare-Element Pegmatites from the Separation Rapids area, NW Ontario; Ontario Geological Survey, Open File Report 6022.

EXPENDITURES

A. 1998 Winkie drill program ( equipment owned and operated by Emerald Fields)

Supervision by A. Mowat; 21 days @ \$150/day	\$3150.00	
Labour: 2 men @ \$100/day, 21 days	\$4200.00	
Transportation (4x4) @ \$75/day	\$1575.00	] reduced to 1770.00
Camp supplies @ \$30/day/man	\$1260.00	
Drill parts, fuel, expendibles	\$1500.00	
TOTAL FOR WINKIE DRILL PROGRAM	\$10,620.00	
50% of cost as per regulations:	\$5310.00	

B. 1999 DIAMOND DRILL PROGRAM by KENORA SOIL AND DRILLING  
1156.7 metres in 11 drill holes, from May 10 to June 7, 1999.

Contract cost:	\$75,156.00
Supervision and drill prep time	
A.Mowat, 35 days at \$150/d	\$5250.00
Core logging: A.P.Pryslak; 10 days @350/d	\$3500.00
Report, A.P.Pryslak, 7 days @ \$350/d	\$2450.00
room and meals	\$938.00
Core racks, Caron Industries;	\$1447.00
Assaying: CHEMEX Labs; certificates	
A9917740, A9918190, A9918191, A9917740,	
I9919021, A9917738 and XRAL W.O. 059881	\$8353.00

TOTAL for B \$97094.00

C. 2000 Perimeter claim survey by W.J. Bowman \$19618.00

TOTAL for A+B+C \$122,022.00

STATEMENT OF QUALIFICATIONS

I, A.P.Pryslak of Winnipeg Manitoba, do hereby certify that:

1. I am a graduate of the University of Manitoba, holding an M. Sc. degree in geology, 1972.
2. I am a consulting geologist residing at 15 Hunterspoint Road, Winnipeg, Manitoba.
3. I have been practicing my profession for the past 35 years.
4. I am familiar with the material covered in this report having logged the core and carried out detailed geological mapping on the property.
5. I own no shares in Emerald Fields Resource Corporation
6. Permission is given to use this report, in whole or in part, for assessment requirements.

Dated in Winnipeg, Manitoba

February 5, 2001

  
A.P.Pryslak

APPENDIX NO. 1

APPENDIX NO.2

EMERALD FIELDS RESOURCE CORP.

**Diamond Journal de  
Drilling forage au  
Log diamant**

Complete this form and related sketch in duplicate.  
Remplir en deux exemplaires la présente formule et le croquis annexé

Fill in on every page  
Remplir ces cases à chaque page

Hole No. Forage n°	Page No. Page n°
SR-98-1	1/2

Drilling Company Compagnie de forage <b>Emerald Fields Resource Corp.</b>	Collar Elevation Élévation du collier <b>1,000 m.</b>	Bearing of hole from true North Position du forage par rapport au nord vrai <b>180°</b>	Total Footage Avancement total du forage <b>39.56m.</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-45°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>AW core stored at EFR Warehouse, Kondra</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K.1178427</b>
Date Hole Started Date de commencement du forage <b>June 4-1998</b>	Date Completed Date d'achèvement <b>June 8-1998</b>	Date Logged Date d'inscription au journal <b>June 14/98</b>	Logged by Inscrit par <b>A.P. Pryslak.</b>	FI/PI		Location (Twp, Lot, Con. or Lat. and Long) Emplacement (canton, lot, concession, ou latitude et longitude) <b>115m. E, 3 28m. N. Post # 3. 1178306</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option	Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	FI/PI	FI/PI		Property Name Nom de la propriété <b>Separation Rapids</b>	

Footage/Avancement From/De	To/À	Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle/Ange des caractéristiques placées	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré-lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
							From/De	To/À		Li.	%
0	4.32	Mafic volcanic	fine grained, strongly foliated amphibolite.	E-45°		M749073	0	0.62	0.62	0.03%	
						74		1.62	1.00	0.04%	
						75		2.62	1.00	0.06%	
						M749051	2.62	4.32	1.70	830 ppm	
4.32	5.42	Albite	white to light grey to light green. Upper contact @ 45° TCA.			M749052	4.32	5.42	1.10	170 ppm	
5.42	6.52	Mafic volcanic	fine grained, foliated amphibolite. mod. biotite / glimmerite.			M749053	5.42	6.52	1.00	1700 ppm	
6.52	35.85	Petalite Pegmatite	white - blocky Qtz - albite - kspars - petalite with minor micas and garnet. 6.52 - 15.80 : petalite unit -19.20 : blocky gr - kspars - mica - minor pet. -28.0 : Qtz - kspars - pet - mica - albite. -30.06 : similar to above but spotted with blue mica - holmgvistite knots to 1.0 cm. -34.00 : quartz - albite - biotite + minor petalite -35.85 : albite aplite, with occasional blocky k-spar.				5	- 10.52	2.00	4600 ppm	
							6	- 12.52	2.00	4000 ppm	
							7	- 14.52	2.00	8800 ppm	
							8	- 16.52	2.00	5000 ppm	
							9	- 18.52	2.00	520 ppm	
						M749060	- 20.52	2.00	4200 ppm		
							1	- 22.52	2.00	9200 ppm	
							2	- 24.45	1.93	10,900 ppm	
							3	- 26.00	1.55	0.82%	
							4	- 28.00	2.00	0.99%	
							5	- 30.00	2.00	0.83%	

100 (0299)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core  
† Les caractéristiques de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte

† Additional credit available. See Assessment Work Regulation  
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.  
Nota: Dans cette formule, lorsqu'il désigne des personnes, le mot "il" est utilisé au genre masculin.

EMERALD FIELDS RESOURCE CORP.

Diamond Drilling Log  
Journal de forage au diamant

Complete this form and related sketch in duplicate.  
Remplir en deux exemplaires la présente formule et le croquis annexé

Fill in on every page  
Remplir ces cases à chaque page

Hole No. Forage n° SR-98-1  
Page No. Page n° 2/2

Sample m	From	To	interval	Li-
749066	80.00	32.00	2.00	0.84%
7	-	34.00	2.00	0.43%
8	-	35.85	1.85	250 ppm.
749069	35.85	36.53	0.63	0.12%
70	-	37.53	1.00	0.08%
71	-	38.53	1.00	0.11%
72	-	39.56	1.03	0.11%

35.85 39.56 Gabbro Hornblende phytic, weakly foliated  
- minor biotite in thin veinlets.

39.56 E.O.H.



EMERALD FIELDS RESOURCE CORP.

**Diamond Drilling Log** **Journal de forage au diamant**

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Hole No. Forage n° SR-98-2  
Page No. Page n° 1/1

Drilling Company Compagnie de forage <b>EMERALD FIELDS RESOURCE CORP.</b>		Collar Elevation Élévation du collier <b>6m.1000</b>	Bearing of hole from true North Position du forage par rapport au nord vrai <b>180°</b>	Total Footage Avancement total du forage <b>30.64m.</b>	Dip of Hole at Collar Inclinaison du forage au Collier/collier <b>-45°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>AW Core stored at EFR warehouse - Kenora.</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K1178427</b>
Date Hole Started Date de commencement du forage <b>June 8</b>	Date Completed Date d'achèvement <b>June 14 1998</b>	Date Logged Date d'inscription au journal <b>June 14/99</b>	Logged by Inscrit par <b>A.P. Prystak</b>		FL/PI	Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>137m. E, 36m N, Post #3, 1178427</b>		
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FL/PI	Property Name Nom de la propriété <b>Separation Rapids</b>		

Footage/Avancement		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Planar Feature	Core Section	Your Sample No	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds)		Sample Length	Assays / Analyses
From/De	To/À	Type de roche	Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Angle / Angle des caractéristiques planaires	Footage / Longueur en pieds des carottes prélevées	N° d'échantillon du prospecteur	From/De	To/À	Longueur de l'échantillon	Zn - %
0	0.50	Mafic M-volcanic	strongly foliated, biotitic amphibolite; fine grained.			55B101	0	0.50	0.5	0.08
0.50	9.80	Pegmatite + Qtz	blackly wall zone grading into a petalite-bearing unit with albitic phases; minor Mafic M-volcanic inclusions.			2	0.50	0.82	0.82	0.05
			0.50 - 1.82 : blackly wall zone			3	-	1.82	1.00	0.01
			qtz + k-spar + albite + mica ± garnet.			4	-	2.82	1.00	0.27
			1.82 - 7.82 : 30-35% petalite + qtz + k-spar + Alb + mica			5	-	3.82	1.00	0.87
			7.82 - 9.80 : qtz + k-spar + albite + mica			6	-	4.82	1.00	0.97
			- discrete small crystals of petalite, decreasing towards lower contact.			7	-	5.82	1.00	0.66
						8	-	6.82	1.00	0.62
						9	-	7.82	1.00	0.71
						10	-	8.82	1.00	0.13
						11	-	9.80	0.98	0.01
9.80	12.28	Mafic, M-volcanic	- foliated, fine grained	F=30°		55B112	9.80	10.80	1.00	0.18
						3	-	11.80	1.00	0.25
						4	-	12.28	0.48	0.09
12.28	12.72	Albitite + amphibolite	lower contact at 30° T.C.R.			5	12.28	12.72	0.44	0.10
12.72	15.60	Pegmatite + Qtz	qtz + k-spar + albite + petalite + garnet			55B116	12.72	13.72	1.00	0.47
			- petalite is variable from minor to approx. 10%			7	-	14.72	1.00	0.12
						8	-	15.60	0.88	0.01
15.60	15.96	amphibolite	strongly foliated, fine grained.			9	15.60	15.96	0.36	0.31

0294 (03/97)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core  
\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.  
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.  
Note: Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé à titre générique.

EMERALD FIELDS RESOURCE CORP.

Diamond Journal de  
Drilling forage au  
Log diamant

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Hole No.  
Forage n° SR-98-2  
Page No.  
Page n° 2/2

15.96	30.64	Pegmatite + Pat.	Blocky pegmatite, white Qtz + K-spar + alb. + Pat. - moderate albitic aplite banding	Sample #	From	To	interval	Li. %
				558128	15.96	16.96	1.00	0.49
			15.96-17.00: blocky Qtz + K-spar + mica ± Pat.	1	-	17.96	1.00	0.83
			17.00-24.96: High grade petalite zone	2	-	18.96	1.00	0.86
			" 22.0-23.0: mainly blocky K-spars with graphic Qtz.	3	-	19.96	1.00	0.79
			24.27-25.42: ground core.	4	-	20.96	1.00	0.92
			25.49-26.3: mixed blocky Qtz - K-spar - Pat.	5	-	21.96	1.00	1.18
			- 30.5: predominantly albitic aplite with streaks of clear petalite (~10%)	6	-	22.96	1.00	0.23
			- 30.64: blocky Q-K-Pat. unit.	7	-	23.96	1.00	0.73
				8	-	24.96	1.00	0.81
				9	-	25.96	1.00	1.10
				558130	-	26.96	1.00	0.66
				1	-	27.96	1.00	0.58
				2	-	28.96	1.00	0.55
				3	-	29.96	1.00	0.22
				558134	29.96	30.64	0.68	0.32
30.64		E.O.W.						

0204 (03/91)

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\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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EMERALD FIELDS RESOURCE CORP.

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Hole No. Forage n°	Page No. Page n°
84-98-3	1/2

Drilling Company Compagnie de forage <i>Emerald Fields Resource Corp</i>	Collar Elevation Élévation du collier <i>1000m</i>	Bearing of hole from true North/Position du forage par rapport au nord vrai <i>180°</i>	Total Footage Avancement total du forage <i>33.64</i>	Dip of Hole at Inclinaison du forage au Collar/collier <i>-45°</i>	Address/Location where core stored Adresse/endroit où la carotte est stockée <i>AW core - stored at EFR Warehouse - Kenora</i>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <i>K117B427</i>
Date Hole Started Date de commencement du forage <i>June 13-1998</i>	Date Completed Date d'achèvement <i>June 17-1998</i>	Date Logged Date d'inscription au journal <i>July 15/1999</i>	Logged by Inscrit par <i>A.P. Pryslak</i>	Fl./Pl.	Location (Twp, Lot, Con. or Lat. and Long) Emplacement (canton, lot, concession, ou latitude et longitude) <i>137m. E, 20m N Post #3, 117B427</i>	Property Name Nom de la propriété <i>Separation Rapids</i>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option	Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	Fl./Pl.				
			Fl./Pl.				

Footage/Avancement		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Placer Feature	Core Specimen	Your Sample No.	Sample Footage/Niveau de pré-	Sample Length	Assays †/Analyses minéralurgiques	
From/De	To/À	Type de roche	Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Angle /Angle des caractéristiques planes	Footage / Longueur en pieds des carottes prélevées	N° d'échantillon du prospecteur	lèvement de l'échantillon (en pieds)	Longueur de l'échantillon	Li-Yo	
0	7.82	Pegmatite + Pet.	blocky, white pegmatite with 40% petalite. 0.76 - 0.93: ground core.			55B1135	0	1.00	1.00	1.26
						6	1.00	2.00	1.00	0.88
						7	-	3.00	1.00	0.40
						8	-	4.00	1.00	0.80
						9	-	5.00	1.00	0.27
						55B140	-	6.00	1.00	0.82
						1	-	7.00	1.00	0.69
						2	-	7.82	0.82	0.41
7.82	8.20	Mafic - M. volcanic	F.g.r., dk. green, well foliated			55B143	7.82	8.20	0.38	-
8.20	13.24	Pegmatite + Pet.	Blocky white pegmatite with 30-35% petalite average			55B144	8.20	9.00	0.80	0.47
						5	-	10.00	1.00	0.20
						6	-	11.00	1.00	0.69
						7	-	12.00	1.00	0.63
						8	-	13.00	1.00	0.82
						9	13.00	13.24	0.24	0.56
13.24	13.39	Mafic - M. Volcanic				55B150	13.24	13.39	0.15	-
13.39	18.42	Pegmatite + Pet	pink to white, blocky pegmatite - petalite is variable. - albitic apite bands on contact with M. Mv. above.			1	13.39	14.00	0.61	0.46
						2	-	15.00	1.00	0.91
						3	-	16.00	1.00	0.54

32-14 (10/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core  
\*Exemples de caractéristiques : foliation, schistosity, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte

† Additional credit available. See Assessment Work Regulation.  
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.  
\* Dans cette formule, lorsqu'il s'agit de personnes, le masculin est utilisé, sans restriction.





						Sample #	From	To	Interval	Lj-%
			18.0 - albitite band of 2 cm with percpy	22.5	F=30°	548001	28.80	30.63	1.83	0.09%
			25.0 - 30.63 : weak biotite/glim. banding	26.0	F=36°					
			- accicular amphiboles, locally, possibly hornblende	28.6	F=58°					
30.63	31.79	albitic aplite	Qtz + alb + gar + musc + bio - minor orange staining. contacts @ 60° TCR.			548002	30.63	31.79	1.16	0.04%
31.79	32.03	amphibolite				548003	31.79	32.03	0.24	0.08%
32.03	32.55	albitic aplite	white - as above.			4	32.03	32.55	0.52	0.04%
32.55	32.61	amphibolite				5	-	32.61	0.06	0.08
32.61	34.44	albitic aplite	white, fine-med. grained, occasional megacryst of K-spar; occasional spec of black oxides abundant garnet; muscovite; minor biotite.			6	-	34.44	1.83	0.01
34.44	35.35	amphibolite	Fine grained, black, med. hornblende, minor biotite. - bands of Qtz-epidote alteration 10 cm band of albitite			548007	34.44	35.35	0.91	0.14
35.35	60.27	Pegmatite + Petalite	Blocky white Qtz + K-spar + Petalite unit with sections of albitic aplite banding.			548008	35.65	37.34	1.69	0.41
			35.35 - 35.8 : wall zone of Qtz albite + K-spar + albitic aplite banding.			9	-	39.01	1.67	0.42
						10	-	41.00	1.99	0.81
						11	-	42.95	0.95	0.61
			35.8 - 36.6 : blocky pegmatite with blue petalite. - minor garnet, musc., bio.			12	-	44.84	1.89	0.07
			- 38.1 : mixed albitic aplite + blocky K-spar and 10-15% petalite; minor gar, musc., bio			13	-	46.91	2.07	0.16
						14	-	48.92	2.01	0.13
			- 42.6 : coarse petalite unit.			15	-	50.93	2.01	0.19
						16	-	52.94	2.01	0.80
			- 50.93 : predominantly albitic aplite; minor blocky K-spar - some cleavelandite; large crystal at 46.7m, 1.5x3.0cm.			17	-	54.86	1.92	0.80
						18	-	56.91	2.05	0.66

EMERALD FIELDS RESOURCE CORP.

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Site No.  
Forage n°  
SR-99-1

Page No.  
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					Sample No.	From	To	interval	Li-%		
			50.93-60.27' petalite unit.		548019	56.91	58.98	2.07	0.50		
			- coarse, white blocky nepheline with 30-35% white to clear petalite. - occasional pink chases		548020	-	60.27	1.30	0.60		
			- moderate garnet with albitic aplite bands.								
			51.0-54.0: abundant pink garnet + yellow-green mica.								
			54.0-60.27' abundant albitic aplite with blocky K-spar. Pet. unit.								
60.27	65.50	albitite.	white to gray albitite with biotite and minor blocky K-spars. 3-5% musc. + garnet + biotite.		548021	60.27	62.47	2.20	0.15		
			- minor petalite crystal to 1.0 cm.		-22	-	63.86	1.39	0.03		
					-23	-	64.89	1.03	0.01		
					-24	-	65.50	0.61	0.03		
65.56	75.3	amphibolite	Hb. phyric gabbro - dk. green, medium grained with coarse stubby amphiboles 1-3mm. in a fine grained plag matrix.		548025	65.50	66.75	1.25	0.11		
			- strong biotite for 10cm on contact.								
			70.1 1/2 cm. of Qtz + po + cpy.								
	75.3	E.D.H.									

0204 (03/91)

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EMERALD FIELDS RESOURCE CORP.

**Diamond Drilling Log** **Journal de forage au diamant**

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Hole No. Forage n° **SR-99-2**  
Page No. Page n° **1/3**

Drilling Company Compagnie de forage <b>Kemera Soil &amp; Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage Nord/Position au nord vrai <b>-184°</b>	Total Footage Avancement total du forage <b>113 m.</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-70°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Fields Res. Corp. 1546 Pine Portage Rd Kemera, Ontario</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K-1178427</b>	
Date Hole Started Date de commencement du forage <b>May /99</b>	Date Completed Date d'achèvement	Date Logged Date d'inscription au Journal <b>July 6/99</b>	Logged by Inscrit par <b>A. P. Kryslak</b>	118 Ft./Pi. <b>-65</b>			Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>116m E, 62m N Bat #3, 1178427</b>	Property Name Nom de la propriété <b>Separatin Rapids.</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	Ft./Pi.		BO Core			
				Ft./Pi.					

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle/angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds) From/De To/À	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
0	2.20	Casing - pulled							
2.20	55.32	Amphibolite.	predominantly f.g., dark grey to black mafic meta-volcanics with minor sections of hornblende phytic gabbro/flows and occasional albite aplite dikes 2.20-18.00 : strong glimmerite alteration 4.10-4.25 : albite aplite 7.60-7.75 : albite aplite. 13.0-49.53 : dark grey, amphibole + plagioclase mafic-m-ul. moderate pervasive biotite; occasional thin veinlet of glimmerite 14.48-14.78 : white pegmatite - quartz albite ± K-spar. - contacts irregular and sheared. 15.10-15.17 : albite aplite. - white, barren oxides 15.5-15.7 : albite aplite at 22° TCA. - minor garnet + chlorite. <b>21.0 F=1520°</b> 34.4-34.6 : QV with 10-20cm glimmerite on walls. 20° TCA. 38.4-38.6 : foliated albite aplite dikes. - coarse amphiboles on contacts.						

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\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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† Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé par convention.



				Sample No.	From	To	Interval	Li-%		
			40.1-40.7: QV strong glimmerite + hornblende on wall zones Contacts at 15° TCA.							
			41.3-41.8: QV - 00 above.							
			49.53-50.02: albitic aplite like, 4-5% black biotite L. contact @ 40° TCA.	548026	48.62	49.53	0.91	0.06%		
				7	-	50.02	0.49	0.04		
				8	-	50.93	0.91	0.06		
			50.02-55.32: porphyritic unit - gabbro? - rd. phytic, med-stony, fol. @ 25° TCA.							
55.3.2	61.87	albite	qtz + albite aplite with 3-4% mica and garnet. - aplite is white to 57.9 m, then becomes pink 57.9-59.7 m. - dominant mica is biotite with lesser yellow-green musc.	548029	55.32	66.24	0.92	0.04		
				-030	-	58.22	1.98	0.01		
				-031	-	60.23	2.01	0.01		
				-032	-	61.87	1.64	<0.01		
				-033	-	62.79	0.92	0.06		
			61.0-61.87: 10% pink blocky K-spars to 3.0 cm. - minor G micas; specs of black-brown metallic, likely cassiterite.							
61.87	86.23	amphibolite	Hd. phytic gabbro to 76.9, then becomes homogeneous, fine grained, likely mafic flow unit. - 75.6-76.96: qtz-epidote-garnet - dolomite alteration along contact of gabbro and volcanic unit. 76.96-86.23: mafic M-volcanic flows - weakly biotitic 84.0-86.23: moderate glimmerite developed on foliation	548034	84.40	86.23	1.83	0.11		

					Sample No.	From	To	(m) interval	Li-%		
86.23	91.13	Pegmatite.	white, blocky, Qtz + K-spar + albite + mica + garnet. - K-spars to 30 cm, with graphic qtz. - mica vary from yellow-green to silvery 89.6 - several yellow-green chrysoberyl crystals KC @ 35° TCA.		548035	86.23	88.06	1.83	0.01%		
					36	-	89.61	1.55	0.01		
					37	-	91.14	1.53	0.02		
91.13	91.65	amphibolite	- inclusion / rept. - fine-medium grained, foliated.		548038	91.14	91.65	0.51	0.12		
91.65	108.05	Pegmatite	predominantly white, blocky Qtz + K-spar + albite + mica - no peralite identified. 91.65-94.80: coarse blocky Qtz + K-spar + albite + mica - 101.8: similar to above but spotted with 5-10mm. knots of hornblende + mica + garnet. - 103.0: blocky pegmatite with bands of albite aplite. with garnet. - 105.5: banded hornblende unit, as above - 108.05: interbanded blocky and aplitic phases. Lower contact at 40° TCA.		548039	91.65	93.18	1.53	0.03		
					040	-	94.64	1.46	0.11		
					041	-	96.62	1.98	0.06		
					042	-	98.63	2.01	0.05		
					043	-	100.74	2.11	0.08		
					044	-	102.72	1.98	0.05		
					045	-	104.67	1.95	0.04		
					046	-	106.68	2.01	0.03		
					548047	-	108.05	1.37	0.01		
108.05	118.96	Amphibolite	Fine grained, black, well foliated, like mafic m-volcanics.	F=25° 30°	548048	108.05	108.97	0.92	0.10%		
	118.96	EDH									

EMERALD FIELDS RESOURCE CORP.

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Hole No. Forage n°	Page No. Page n°
5A-99-3	1/3

Drilling Company Compagnie de forage <b>Kenora Soil 2 Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>180°</b>	Total Footage Avancement total du forage <b>87.5</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-50°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Fields Res. Corp. 1546 Pine Postage Rd Kenora, Ontario  B.R. Cole.</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K.1178427</b>
Date Hole Started Date de commencement du forage <b>May /09</b>	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 7 /99</b>	Logged by Inscrit par <b>A. P. Ryslak</b>	<b>87</b> Ft./Pi	<b>-44°</b>		Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>85th. E, 60th. N. Post #3, 1178427</b>	Property Name Nom de la propriété <b>Separation Rapids</b>
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature) <b>[Signature]</b>	Ft./Pi				
				Ft./Pi				

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle /Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/À						From/De	To/À		L1 - %	
0	3.0	Casing - pulled.									
3.0	8.69	Amphibolite	Mafic. Meta volcanic F. grained, black, strongly foliated. minor biotite along fol. 3.96 - 4.21: albitic aplite white, med. grained, banded albitite with minor black biotite + garnet + oxides Contacts at 58° TCA. 5.70 - 5.92: albitite, as above significant black oxides. UC is irregular LC @ 40° TCA.	F = 45-48°							
8.69	12.80	Peridotite + aplite	50% black. Qtz + K-spar + mica + 2-3% garnet. 50% albitic aplite with moderate green to black biotite, minor garnet. K-spar are typically graphic 12.2 - 12.6: blocks of spy with black metallics.			548049	7.77	8.69	0.92	0.04	
						548050	8.69	11.87	2.68	0.01	
						1	12.80	1.43	<0.01		
						548052	12.80	13.72	0.92	0.05	
12.80	17.04	Amphibolite	Black, fine grained mafic m. volcanics.	F = 45°		548053	16.12	17.04	0.92	0.04	

12/94 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques: foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation. Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens générique.

					Sample No.	From	To	Interval	Li-%		
17.04	17.91	albite	white qtz + albite with 2-3% garnet + minor muscovite.		548054	17.04	17.91	0.87	0.01		
17.91	45.45	amphibolite	Fine grained and banded to massive and hornblende phyc.		-055		18.82	0.91	0.07		
			17.91-30.5: massive to banded mafic metavolcanics.								
			black, aphyric with narrow bands of glimmerite								
			30.5-43.0: hornblende phyc gabbro. moderate glimmerite for 2.0 m on upper contact.								
			42.0 white, 10cm albite dila at 35° TCA.								
			42.2-47.4: white albite dila with garnet + green biotite								
			42.52-43.0: 20% albite veining and strong development of glimmerite								
			43.0-45.45: fine grained amphibolite.								
			strongly fol. at 45° TCA.								
			- band of calc-silicate alteration sub-parallel to core axis		548056	44.53	45.45	0.92	0.12		
45.45	47.09	albite	white to pink, qtz + albite with moderate yellow-green muscovite + garnet.		7	-	47.09	0.54	0.10		
			- several yellowish-brown blebs near upper contact to 1.0 cm diameter; possibly pseudomorphs after cordierite								
			UC - sharp at 45°; KC, irregular ~35° TCA.								
47.09	47.64	Amphibolite	Fine grained, black mafic metavolcanics.								
			- abundant hornblende on lower contact. Fc 25°		548058	47.09	47.64	0.45	0.19		
47.64		Pegmatite + Petalite	white, qtz + albite + k-spax + petalite, blocky pegmatite with variable mica, garnet		9	-	48.46	0.82	0.15		
					548060	-	50.90	1.54	0.09		
					1	-	53.77	1.87	0.73		

					Sample No.	From	To	Interval	Li-%
			47.64 - 48.46: wall zone						
			- blocky Qtz + K-spar + albite + yellow-green micas + minor petalite.		548062	53.77	56.08	2.31	0.37
			48.0 - 8cm band of amphibolite		3	-	57.15	1.07	0.66
			48.46 - 53.77: blocky white pegmatite with 30-40% petalite.		4	-	59.62	1.47	0.25
			52.7 Some dk. green beryl crystal.		5	-	61.66	2.04	0.79
			53.77 - 57.61: Qtz + albite aplite with some blocky K-spar and moderate petalite.		6	-	61.97	0.31	0.24
			- garnet + yellow-green micas with albitic inclusions.		7	-	63.09	1.12	0.79
			57.61 - 59.61: mainly albitite with minor garnet + mica		8	-	64.59	1.50	0.61
			- petalite appears to be abundant but difficult to discern from albite.		98069	-	65.99	1.40	0.12
			59.61 - 61.67: mixed blocky and albitic pegmatite/ aplite. High grade petalite zone						
			61.67 - 61.97: amphibolite band F = 55° TCA.						
			61.97 - 65.2: High grade petalite section.						
			- blocky pegmatite, banded by aplite. minor micas from yellow-green to pale brown.						
			65.2 - 66.00: Qtz + albite + mica, aplite						
			- occasional blocky K-spar. LC @ 38° TCA.						
66.00	87.50	Amphibolite	Hornblende plusie gabbro unit.						
			- strongly fol. on contact, becoming massive		548070	65.99	66.90	0.91	0.09
	87.50	E.D.H.							

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BR-99-4	1/3

Drilling Company Compagnie de forage <b>Kenora Soil &amp; Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>180°</b>	Total Footage Avancement total du forage <b>121.0m.</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-70°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Fields Res Corp 1546 Pine Postage Rd Kenora, Ontario</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K.1178427</b>
Date Hole Started Date de commencement du forage <b>May /99</b>	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 8/99</b>	Logged by Inscrit par <b>A.P. Pyslake</b>		<b>121 Ft./PI - 66°</b>		Location (Twp, Lot, Con. or Lat. and Long) Emplacement (canton, lot, concession, ou latitude et longitude) <b>85m E, 60m N. Post #3, 1178427</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature) <b>A.P. Pyslake</b>		<b>Ft./PI</b>	<b>BQ Core.</b>	Property Name Nom de la propriété <b>Separation Rapids</b>	

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle / Angle des caractéristiques planes	Core Section Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/À						From/De	To/À		Li-%	
0	3.35	Casing - pulled									
3.35	15.24	amphibolite.	F. grained mafic M. volcanics and small albitic dikes.								
			3.35-7.56: st. foliated amphibolite	F = 16°20'		548071	6.20	7.19	0.91	0.03	
			st. glimmerite for 30cm on LC -25° TCA.			2	-	7.56	0.37	0.14	
			7.56-8.46: albitite			3	-	8.46	0.90	<0.01	
			white, med. grained with minor biotite, garnet and black oxides.			4	-	10.09	1.63	0.03	
			LC @ 40° TCA.			5	-	10.30	0.21	0.01	
			8.46-15.24: fgr. amphibolite with seams of glimmerite along fol. planes.			6	-	12.23	1.93	0.03	
			- pelungisite on contacts of the small albitic dikes et: 14.57-14.80			7	-	14.57	2.34	0.03	
			10.09-10.30 ; 14.90-14.95			8	-	15.24	0.67	0.07	
			15.00-15.10								
			- minor garnet, biotite and Tr. oxides with the albitite.								
15.24	20.65	albitite	Qtz-albitite albitite with occasional sections of blocky K-spars (graphic)			548079	15.24	17.68	2.44	0.01	
			minor white to black to green micas + garnet.			080	-	20.65	2.97	0.01	

0204 (03/91)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core

\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens générique.

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					Sample No.	From	To	(m) interval	Li-%		
20.65	26.67	Amphibolite.	F. gr, black meta. volcanics - foliated and quite homogeneous with minor pervasively black biotite and seams of glimmerite. F = 15-20° - strong glim. developed for 30cm. on lower contact.		548081	20.65	22.78	2.13	0.04		
					2	-	24.27	1.99	0.04		
					3	-	26.67	2.90	0.05		
26.67	36.60	Pegmatite.	mainly white blocky pegmatite with sections of albitic aplite - K-feldspar brocks are present but no retalite observed. 26.67-28.0 : albitic aplite with 10% blocky k-spar minor bio + gar. 28.0-31.0 : 20% blocky k-spar in albitic matrix with 1cm. brocks of bio + gar + holony. 31.0-36.60 : mainly white albitite with occasional blocky k-spar.		4	-	29.57	2.90	0.01		
					5	-	32.61	3.04	0.02		
					6	-	35.66	3.05	0.01		
					7	-	36.58	0.92	0.01		
36.60	97.26	Amphibolite	Black to grey, fine grained meta-volcanics with small albitic dikes. - locally banded by garnet + black biotite, 10-15cm. - moderate glimmerite developed, particularly adjacent to pegmatites/aplites. 46.70-47.61 : albitic aplite - white albitite + biotite + minor garnet; Tr. oxides. contacts at 15° T.C.A. 61.80-61.95 : qtz-epidote band at 5-10° T.C.A. F = 10° 61.95-78.3 : more massive phase of amphibolite with irregular actinolite + minor glimmerite. 78.5 3cm calc-silicate band		548088	36.58	38.47	1.89	0.08		

0204 (03/91)

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\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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					sample No	From	To	interval	L1- %
			78.3-84.2: massive to weakly banded. F. = 20-25°						
			84.2-84.73: white to pale green QV with minor potash contacts at ~50° TCA.						
			84.2-92.05: block, weakly fol. amphibolite; weak glim. minor streaks of po						
			92.05-92.96: albitic aplite white, grt + alb + bio + qtz.		548009	90.53	92.05	1.52	0.067%
			92.96-94.12: 15% narrow albitic dikes in amph. - similar to above; no oxides observed.		90	92.05	92.96	0.91	0.01
			94.12-94.64: orbitite. - some coarse clusters of bio + gar.		91	-	94.12	1.16	0.13
					92	-	94.64	0.52	0.04
					93	-	97.26	2.63	0.09
			94.64-97.26: amphibolite. p.gr., st. foliated; med. glimmerite LC @ 40°		94	-	99.67	2.41	0.04
					95	-	102.72	3.05	0.04
					96	-	105.77	3.05	0.04
97.26	114.73	Pegmatite.	white, blocky, non-petalite unit. grt + alb + ksp + mixed reactions of grt - albitic aplite		97	-	108.01	3.04	0.05
			- micas are yellow-green to silvery; 1-3% pink garnet - albitic bands are well banded, 25-40° TCA.		98	-	109.76	0.95	0.05
					99	-	111.56	1.80	0.04
					549100	-	113.14	1.58	0.03
114.73	121.0	amphibolite	Hornblende phyr. gabbro unit. F 30° - strongly fol. for several metres on contact with glimmerite + hornblende on fractures.		1	-	114.33	1.19	0.02
					2	-	114.76	0.43	0.01
					3	-	115.85	1.09	0.14
	121.0	E.O.H.							



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Drilling Company Compagnie de forage <b>Kenora Soil &amp; Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai 134°	Total Footage Avancement total du forage 90.52m.	Dip of Hole at Inclinaison du forage au Collar/collier -50°	Address/Location where core stored Adresse/endroit où la carotte est stockée Emerald Field Res Corp. 1546 Pine Portage Rd Kenora, Ont.	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière K-1178427
Date Hole Started Date de commencement du forage May 199	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal July 9/95	Logged by Inscrit par A.P. Ryckok A.P. Ryckok		90 FL/PI -48		Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) 141m E., 62m N. Part #3, 1178427	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FL/PI	BQ Corr.	Property Name Nom de la propriété Separation Rapids	

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/À						From/De	To/À		Li - %	
0	2.75	Casing - pulled.									
2.75	34.20	Amphibolite.	Fig. - black to dark green pillowed and massive flows. - minor inter-pillowed and fracture controlled calc-silicate bands; Fol. - t 40° to r								
			2.75 - 19.5 : pillows								
			19.5 - 25.3 : 20% banded tuff-seds								
			25.3 - 34.2 : massive fine grained amphi. - flow.								
			21.6 3cm albite at 40°								
			24.9 3cm. albite @ 45°			518104	33.2B	34.20	0.52	0.12	
34.20	61.36	Pegmatite + biotite	white, blocky pegmatite with minor albite biotite banding.			5	-	34.75	0.55	0.02	
			34.20 - 34.75 : blocky, Qtz + K-spor + albite, 3-4% biotite, 2-3% garnet.			6	-	36.03	1.2B	0.03	
			Contact at 45°			7	-	36.91	0.8B	0.04	
			34.75 - 45.48 : white, mainly qtz + albite + mica aplite with sections of blocky white K-spor/albite.			8	-	38.31	1.40	0.07	
			- locally developed biotite-hornblende-garnet Hosts, particularly 40.5 - 44.2			9	-	40.23	1.92	0.10	
			- mica are present, yellow-green, except for host			54B110	-	42.87	2.14	0.14	
						1	-	44.17	1.80	0.20	
						2	-	45.48	1.30	0.12	

0204 (03/91)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte

† Additional credit available. See Assessment Work Regulation

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Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens générique.

				Sample No.	From	To	Interval	L <sub>1</sub> -%	
			44.48-61.36 : Petalite Pegmatite. - gray to pink - white.	54B113	45.48	47.03	1.65	0.82	
			Blocky Qtz + K-spar + petalite + albite	4	-	48.34	1.31	0.52	
			44.48-48.74: pink variety; 30-40% pet.	5	-	50.81	2.47	0.66	
			48.74-57.00: clear to bluish pet; abundant	6	-	52.82	2.01	1.21	
			block K-spar; minor albitic banding	7	-	55.63	2.81	0.96	
			57.00-59.51: Pink, blocky; some petalite	8	-	57.00	1.37	0.51	
			but difficult to discern.	9	-	59.51	2.51	0.19	
			- garnet + yellow-green micas.	54B120	-	59.65	0.14	0.31	
			59.51-59.65: glimmerite band at 20° TCA.	1	-	61.36	1.71	0.39	
			59.65-61.36: mainly blocky Qtz + albite						
			+ K-spar + garnet + yellow-green micas						
			- several bands of 1-2 cm of						
			clear petalite.						
61.36	68.58	Amphibolite	Fine grained, black, strongly foliated in sections	54B122	61.36	62.90	1.34	0.11	
			and aphyric, hornblende phytic in more massive	3	-	62.97	0.27	<0.01	
			sections - likely sheared gabbro. E = 40°	4	-	63.88	0.91	0.07	
			62.70-62.97: Qtz at 40° TCA.	5	-	65.71	1.83	0.05	
68.58	77.51	Pegmatite	Barren of petalite; Qtz + albite + mica, spotted	6	-	67.54	1.93	0.08	
			with bands of micas + garnet, grading into a	7	-	68.68	1.14	0.16	
			predominantly an albitic aplitic in the						
			core zone and back into a blocky Qtz -	54B128	68.18	70.68	2.50	0.03	
			albite - K-spar - garnet unit at lower contact.	9	-	72.24	1.56	0.05	
			70.68-74.37: blocky Qtz + K-spar + mica + cordierite	130	-	74.37	2.13	0.08	
			- Qtz-rich zone with blocky K-spars	1	-	76.23	1.86	0.03	
			and silver to green micas. - about 70%	2	-	77.51	1.28	0.02	
			Qtz.						

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					Sample No	From	To	Interval	Li- <sup>2</sup>
			74.37 - 77.51: mixed albite and blocky Qtz + Kspar + mica - gar. pegmatite. biotite is dominant mica, generally as clusters with garnet.						
77.51	90.53	Amphibolite	Fine grained, black, aphyric meta-volcanics F 30° 83.70 - 84.03: white albite. sugary texture with black oxides on HW section. Contacts at 50°		548133	77.51	78.42	0.91	0.05
					548134	82.78	83.70	0.92	0.03
					5	-	84.03	0.33	0.01
	90.52	E.O.H.			6	-	84.95	0.92	0.05
					7	89.40	90.53	1.13	0.02

0204 (03/91)

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\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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Drilling Company Compagnie de forage <b>Kenora Soil &amp; Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>180°</b>	Total Footage Avancement total du forage <b>142.3 m.</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-72°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Fields Res. Corp 1546 Pine Portage Rd Kenora, Ontario</b>	Map Reference No. N° de référence sur la carte <b>141m. E., 62m N. Part #3 1178427</b>	Claim No. N° de concession minière <b>K-1178427</b>
Date Hole Started Date de commencement du forage <b>May 1999</b>	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 10/99</b>	Logged by Inscrit par <b>A. P. Prysock A. P. Prysock</b>		<b>72 FL/PI -71°</b>		Location (Twp, Lot, Con. or Lat. and Long) Emplacement (canton, lot, concession, ou latitude et longitude)	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		<b>142m FL/PI -69°</b>	<b>BA Core.</b>	Property Name Nom de la propriété <b>Separation Rapids</b>	
					<b>FL/PI</b>			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Features Angle / Angle des caractéristiques placées	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays / Analyses minéralurgiques	
From/De	To/À						From/De	To/À	Li-%	
0	1.43	Casing - pulled.								
1.43	75.80	Amphibolite	massive flows to banded Tuff / sed. ; strongly fol. F = 30° 1.43 - 7.8 : massive, bleached with irregular calc-silicate banding. 7.80 - 11.3 : well banded with 20% feldspathic-rich bands; moderate glimmerite developed along foliation. Banding + fol = 30° TCA. 11.3 - 44.0 : more massive flows. - occasional black band of several cm. suggestive of selvages. F = 20-25° - minor glimmerite. becoming at 30m = 15° - occasional calc-silicate band. 26.5 - 26.85 : Qtz + epidote + garn band at 20-40° TCA. 34.1 calc-silicate band at ~20° TCA. 44.0 - 53.3 : well banded sequence. Sd 10-20° 53.3 - 66.0 : massive flows - foliated F = 15° 66.0 - 75.8 : pillowed flows. - some flow breccia sections.				548138	74.89	75.80	0.91 0.08
			71.0 - 71.5 : Calc-silicate veining.							

0204 (03/91)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.  
Note: Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens générique.

					Sample No.	From	To	Interval	Li-%				
75.80	98.18	Pegmatite	white, blocky, Qtz + K-spar + albite + mica with moderate sections of gtz - albite - garnet - mica aplite		548139	75.80	78.30	2.50	0.01				
			75.80 - 78.30: coarse, blocky Qtz + K-spar + very minor mica + garnet		140	-	78.49	0.19	0.20	amph.			
			- 78.49: amphibolite with well developed glimmerite		1	-	80.22	1.73	0.01				
			- 78.90: Qtz + cordierite unit with minor blocky K-spars + garnet		2	-	81.38	1.16	0.04				
			- dark green blobs of biotite, minor musc. and an amorphous mineral, likely altered cordierite.		3	-	84.43	3.05	0.15				
			- 82.60: Qtz + albite aplite 2-3% blocky K-spars, 2-3% yellow green micas.		4	-	87.63	3.20	0.08				
			79.8 - 80.2: pink.		5	-	90.05	2.42	0.20				
			- 93.30: white, blocky pegmatite / Qtz + K-spars, garnet and micas		6	-	91.74	1.69	0.33				
			last 40cm. the unit is gtz - rich		7	-	93.30	1.56	0.12				
			- 94.27: amphibolite, st. fol. at 25°; glim.		8	-	94.27	0.97	0.14	amph.			
			- 98.18: white, blocky Qtz + K-spar + mica + gar		9	-	96.62	2.35	0.06				
			- micas comprise of muscovite and biotite generally in 1.0cm. tracts with garnet		548150	-	98.18	1.56	0.02				
			- up to 20% garnet over 15cm on lower contact.		1	-	99.82	1.64	0.31	amph. glim.			
					2	-	101.19	1.37	0.14	"			
					3	-	101.25	0.06	0.04	albite			
					4	-	102.29	1.04	0.09	amph.			
					5	-	102.72	0.33	0.05	albite			
					6	-	104.24	1.52	0.09	amph.			
					Summary:					81.38	93.30	11.92	0.163
98.18	142.34	Amphibolite	fine grained, black, well foliated with minor glimmerite for 4-5m. on upper contact. F = 15°										
			101.19 - 101.28: albite @ 25° T.C. with oxides.										
			102.24 - 102.72: albite.										



EMERALD FIELDS RESOURCE CORP.

**Diamond  
Drilling  
Log**

Hole No.  
Forage n°  
SP-99-7

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Drilling Company Compagnie de forage <b>Kenora Soil &amp; Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>360°</b>	Total Footage Avancement total du forage <b>124.1</b>	Dip of Hole at Inclinasion du forage au Collar/collier <b>-60°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Field Res. Corp 1546 Pine Portage Rd Kenora, Ontario</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K. 1170427</b>
Date Hole Started Date de commencement du forage <b>May / 99.</b>	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 11 / 99</b>	Logged by Inscrit par <b>A. P. Proyslak L. P. Pophl</b>		<b>124m FL/PI</b>	<b>B&amp; Core.</b>	Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>80m E, 10m S of Rpt #3,</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FL/PI		Property Name Nom de la propriété <b>Separation Rapids.</b>	
					FL/PI			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planes Feature Angle / Angle des caractéristiques planes	Core Section Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds) From/De To/À	Sample Length Longueur de l'échantillon	Assays / Analyses minéralurgiques
0	2.13	Casing - pulled.							
2.13	31.82	Amphibolite	fine grained, aphyric, strongly foliated to banded. 2.13-7.0: pillowed flows. - bands along foliation of glimmerite 7.0-22.6: foliated, massive to banded. with st-glimmerite. 22.6-31.82: medium grained amphibolite with hd: plag ~ 2:1; likely gabbro. 4.7: symform of foliation at 25° TCR and plunging 10-15° East.	F= 30-35°					
31.82	73.52	Pegmatite + Petalite	white Qtz + K-spar + albite + petalite + gar + micas. 31.82-35.35: Wall zone - Qtz + K-spar + alb + mica blocky; K-spar typically graphic interbedded with minor albite aplite. 35.35-41.45: Petalite dike / phase. blocky, gray with 10-20% albitic aplite 20-30% petalite; clear to white to pale blue. 41.45-42.10: amphibolite at 30° to core axis.						

0204 (03/91)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\* Exemples de caractéristiques: foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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Footage/ From/ To/		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle/Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
From/	To/						From/De	To/À		
			42.10 - 43.28: banded albitic aplite with minor blocky pegmatite with 10% petalite							
			43.20 - 60.53: white, blocky petalite pegmatite - gray phases with abundant biotite, generally in knots to 1.0 cm. - minor garnet							
			49.68; 50.14: bladed yellow-green chrysoberyl							
			55.47 - 60.53: pink albitic aplite ± petalite several crystals of chrysoberyl and oxides - albitic banding at 40-55° r.c.a.							
			60.53 - 65.23: blocky Qtz + K-spx + albitic unit with minor albitic aplite banding - no apparent petalite content.							
			65.23 - 73.52: Similar to above but biotite + garnet ± hornblende clusters are common. - K-spxs are typically graphic - occasional blocky albitic.							
73.52	124.1	Amphibolite	Fine grained, strongly foliated to massive, locally banded mafic metavolcanics; minor hornblende phyric gabbro/flows. 73.52 - 77.1: med. grained, massive, foliated flows - B.I.B.: interflow seds/tuff 20-25% more feldspathic bands to 5.0 cm at 40° r.c.a. - minor brown biotite / glimmerite							

0204 (03/91)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



EMERALD FIELDS RESOURCE CORP.

**Diamond  
Drilling  
Log**

Hole No.  
Forage n°  
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Footage/ From/ To/		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- levement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
			81.8-90.2: pillowed basalt flows.						
			87.0: 8cm albitite dike at 50° TCA.						
			88.4: several 1-2 cm albitite veins						
			89.8: 3cm albitite at 45° TCA						
			90.2-93.6: mafic interflow sands / tuffs. dk. green. amphibolite with 20-25% more feldspathic bands at 35° TCA.						
			93.6-96.3: strongly foliated, sheared section with hornblende megacrysts in a more feldspathic matrix - likely sheared gabbro						
			96.3-124.1: hornblende phytic gabbro - massive to w/ly foliated F=35°						
124.1		E.O.H.							

0204 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

EMERALD FIELDS RESOURCE CORP.

**Diamond  
Drilling  
Log**

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Forage n°  
**SR-99-B**

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Drilling Company Compagnie de forage <b>Kenora Soil and Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>280°</b>	Total Footage Avancement total du forage <b>153.3 m.</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-80°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Field Res. Corp. 1546 Pine Portage Rd Kenora, Ontario  BQ CMC.</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K.1178427</b>
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 12/99</b>	Logged by Inscrit par <b>A. P. Pyslak</b>	<b>75</b> Ft./Pi	<b>-79°</b>		Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>126 m E., 18 m N., Bst #3</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature) <b>A. P. Pyslak</b>	Ft./Pi			Property Name Nom de la propriété <b>Separation Rapids.</b>	

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planer Features Angle/angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Length Longueur de l'échantillon	Assays / Analyses minéralurgiques
0	1.22	Casing-pulled							
1.22	71.96	Pegmatite + Petalite	Big Mack pegmatite with blocky to aplitic phases with variable petalite content.						
			1.22 - 3.05: light grey to white blocky petalite peg. (40%)						
			- 3.96: 20% white albite veining, sub-parallel to CX.						
			- 10.92: mixed blocky Qtz-K-spar-petalite and albitic aplite with garnet + bio + musc.						
			- 16.15: blocky Qtz + K-spar + petalite unit						
			- 16.46: QV at 80-90° TCB						
			16.46 - 24.38: coarse blocky peg. with 30-40% pet., 20% K-spars + albite, both blocky and aplitic.						
			- minor gar, musc, bio.						
			20.73 - 22.40: patchy, bright green coloration along contacts of petalite and K-spar crystals.						
			24.38 - 32.92: leaner zone of petalite (15-20%) in a mixed blocky to aplitic pegmatite.						
			32.92 - 48.16: coarse, blocky sections with 20-30% pet. creamy K-spars to 15.0 cm and flow banded aplite						

0204 (03/91)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

EMERALD FIELDS RESOURCE CORP.

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Footage/ From/		To/	Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon de prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
				48.16 - 48.53 : albitic aplite with moderate biotite - 49.99 : gray, albitic aplite with biotite mainly in 1.0 cm. clusters. - 50.30 : coarse, blocky, pegmatite with 20-25% patolite. - 62.0 : albitic aplite with occasional blocky K-spars, 5-6% biotite, mainly in clusters with minor garnet. - 71.96 : blocky K-spars with graphic gtz + albite + gtz + 4-5% bio - generally as clusters. - lower section on contact (25cm) is comprised mainly of gtz and green altered blebs, likely cordierite.							
71.96	75.35		Amphibolite.	f. granoid mafic metavolcanics with 10% biotite - upper contact is v. irregular. - lower contact at 30° TCA.							
75.35	123.66		Pegmatite.	Predominantly blocky pegmatite, barren of patolite, with sections of albitic aplite. 75.35-92.81 white to pale pink K-spars + gtz + albite + musc/bio; K-spars are graphic and upto 30cm. 75.35-79.5: strongly fol. at 25-35° TCA 80.3-81.0: Qtz-rich unit with 20% albite - medium granoid 81.8-83.2: sheared with K-spars stained red-orange 81.8 : gouge seam at 30° TCA. 86.9 : gouge/mylonite seam, 1.0cm, at 30° TCA.							

0204 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre

EMERALD FIELDS RESOURCE CORP.

Diamond  
Drilling  
Log

Hole No.  
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Footage/		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Features Angle / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/	To/						From/De	To/À			
			92.81-102.41: mixed blocky and aplitic units Qtz + K-spar + Alb + mica + garnet. - biotite mainly as aggregates to 1.0 cm with garnet and hornblende. - minor musc.								
			102.41 - 112.17: similar to above, blocky coarse pegmatite but no hornblende with biotite aggregates.								
			107.4-108.9: mainly albitic aplite, banded with streams of bio-musc-gav. - occasional grains of oxides.								
			112.17-123.66: white Qtz-garnet-albite aplite with 20% white blocky K-spars, 3-4% pink garnet, 1-5mm. diameter. - aplite banding at 30-35° TCA. - biotite generally absent, except for 0.5m. adjacent to contact. LC of 20° TCA.								
123.66	153.3	Amphibolite	medium grained, quite uniform aggregates of stubby hornblende; weakly chloritized. - very minor pervasive biotite. Fol. 07-15° 126.8 1.0cm. albite to. 007°								
	153.3	E.O.H.									

0204 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

EMERALD FIELDS RESOURCE CORP.

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Drilling Company Compagnie de forage <b>Kenora Soil &amp; Drilling</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>360°</b>	Total Footage Avancement total du forage <b>96.7m.</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-58°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Fields Res. Corp. 1546 Pine Portage Rd Kenora, Ontario  BQ Core.</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K.1178427</b>
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 13/99</b>	Logged by Inscrit par <b>A.P. Prylak</b> <b>A.P. Prylak</b>		<b>96</b> Ft./Pi <b>-53.5°</b>	Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>62 m E, 07 m S, Box #3</b>	Property Name Nom de la propriété <b>Separation Rapids</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		Ft./Pi			
					Ft./Pi			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle/Ange des caractéristiques placées	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays / Analyses minéralurgiques
From/De	To/À						From/De	To/À	Li-ppt
0	1.2	Casing - pulled							
1.20	37.37	Amphibolite	mainly the hornblende plagioc phase - gabbro 9.51 - 13.41: interbedded seds/tuff. <b>F = 20-30°</b> several 10-15cm QVLS in upper section. 32.3 - 32.5: white albite <b>35°</b> minor biotite.						
37.37	49.59	Pegmatite + Patalite	coarse, white, blacky pegmatite. Qtz + K-spar + patalite + albite + 3-4% bio. - patalite variable from clear to white to pale blue, generally constitutes 25-50% of dike.			546201	37.4	38.7	1.3 656
						2	41.8	3.1	5730
						3	44.8	3.0	5170
						4	47.9	3.1	4430
49.59	51.60	Amphibolite	black, med. gr., mainly hd. phycr gabbro. - hornblende on fractures. Contacts 25-30°			5	49.6	1.7	5970
51.60	70.35	Pegmatite + Patalite	Black to aplitic, white to grey to pink. 15-25% patalite, variable with aplite; minor yellow-green mica + biotite 51.60 - 53.37: mainly well banded aplite - minor blocky sections with patalite. Banding of 25°			206	51.6	53.3	1.7 5150
						7	55.4	2.1	6240
						8	58.2	2.8	7460
						9	60.0	1.8	4310

0204 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

EMERALD FIELDS RESOURCE CORP.

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Footage/ From/ To/		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle / Angle des circulaires planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds) From/De To/À	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
			53.37- 58.16: blocky Qtz + K-spar + patolite + albite Patolite variable from 10-40% 66.1- Trace oxides			548210	60.0 63.1	3.1	7470
						211	66.1	3.0	5170
						212	67.4	1.3	8170
			58.16 - 59.65: white, blocky peg with 25% patolite			213	68.9	1.5	613
			59.65 - 60.50: white, blocky Qtz + K-spar + albite mica - no obvious patolite.			214	70.4	1.5	174
			60.50 - 67.42: very coarse, blocky pegmatite with 30-35% patolite to 20cm.						
			67.42 - 70.35: Wall zone - Qtz + K-spar + albite mica LC @ 25° T.C.D.						
70.35	96.67	Amphibolite	Fine, dark green, foliated ~ 30° T.C.D. - dark bands, suggestive of pillow forms. 70.35 - 71.0: hairline fractures with hornblende. 72.0 - 72.5: Qtz epid - gas veining with ps + spy. 90.4 - 90.6: bleached, epidotized band.						
	96.67	E.O.H.							

0204 (03/91)

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

EMERALD FIELDS RESOURCE CORP.

**Diamond  
Drilling  
Log**

Hole No. Forage n°	Page No. Page n°
SR-99-10	1/

Drilling Company Compagnie de forage <b>Kenora Soil &amp; Drilling.</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>360°</b>	Total Footage Avancement total du forage <b>55.1 m</b>	Dip of Hole at Collar/collier Inclinaison du forage au <b>-70°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Fields Res Corp 1596 Pina Postage Rd Kenora, Ontario  BQ core.</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K 1149785</b>
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 14/99</b>	Logged by Inscrit par <b>A.P. Pryslak. L.P. Pryell</b>		FI/PI	Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>100mW, 105mN of Post #2</b>	Property Name Nom de la propriété <b>Separation Rapids.</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FI/PI			
					FI/PI			
					FI/PI			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Features Angle/Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No N° d'échantillon du prospecteur	Sample Footage/Niveau de prélevement de l'échantillon (en pieds) From/De To/À	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
0	2.13	Casing - pulled.							
2.13	55.10	Amphibolite.	E.g., black to dark green, massive and pillowed flows. - minor garnet-epidote banding 39.0 - 2.5 cm albite like at 15° TCA. 50.0-50.8: albitite @ 15° TCA. - minor biotite + oxides	F = 10-15°					
	55.10	E.O.H.	Hole stopped as no pegmatite was encountered.						

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

EMERALD FIELDS RESOURCE CORP.

**Diamond  
Drilling  
Log**

Hole No. Forage n°	Page No. Page n°
SR-99-11	1

Drilling Company Compagnie de forage <b>Kenora Soil &amp; Drilling</b>	Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>360</b>	Total Footage Avancement total du forage <b>91.9m.</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>-45°</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>Emerald Field Res. Corp 1596 Pine Portage Rd Kenora, Ontario</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>K. 1149785</b>
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal <b>July 14 1995</b>	Logged by Inscrit par <b>A. P. Pryslak</b>	F.L./P.I.	BQ Core.	Location (Twp. Lot, Con. or Lat. and Long) Emplacement (canton, lot, concession, ou latitude et longitude) <b>100m W, 105m N. Post #2</b>	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature) <b>A.P. Pryslak</b>	F.L./P.I.		Property Name Nom de la propriété <b>Separation Rapids.</b>	
				F.L./P.I.			
				F.L./P.I.			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Features Angle/Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'identification du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays / Analyses minéralurgiques
From/De	To/À						From/De	To/À	
0	10.3	Casing - left in place							
10.3	37.55	amphibolite	F.g., black massive mafic M. alkalic flows. 12.65 - 12.86: albite aplite at 45° - fractured with a black film on fracture planes - bio & tour. - minor black oxides. 14.66 - 15.75: albite aplite at 40° TCR. - banded with biotite + minor py-pa - minor oxides. 21.24 - 21.43: albite with minor black oxides 29.72 - 31.06: albite; white, gtz + alb + bio + gar. 34.63 - 34.69: albite at 60° TCR.	F: 40-45°					
37.55	42.15	Pegmatite + petalite	grey, blocky pegmatite of Qtz + K-spar + albite + mica + 15-25% white to pale blue petalite. Contacts at 40° TCR. - micas: bio and yellow-green musc. + garnet.						
42.15	52.21	Amphibolite	sheared, altered, hornblende phytic gabbro. - minor hornblende on fractures.	F: 45°					

0204 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.



EMERALD FIELDS RESOURCE CORP.

Diamond  
Drilling  
LogHole No.  
Forage n°  
68-99-11Page No.  
Page n°  
2/2

Footage/ From/ To/		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Plane Feature Angle / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/	To/						From/De	To/À			
52.21	52.73	Pegmatite	white, blocky Qtz + albite + garnet. - minor pale blue stained patches, possibly due to halomuscovite or cordierite. - no definite petalite identified. Contacts at 35° TCA.								
52.73	70.56	Amphibolite	strongly foliated, hornblende phytic gabbro. 63.4-65.8: fine grained section, possibly mafic m.-volcanic flow 65.2-68.0: moderate glimmerite with a thin orbitite like. at 66.9 65.2-70.56: hd. phytic gb. L.C. at 50° with hornmuscovite								
70.56	77.57	Pegmatite + Petalite	white, predominantly albitic aplite with 2-3% garnet to 1.0 cm. 70.56-70.68: orbitite. 70.68 - 70.77: glimmerite band. 70.77- 75.60: interbanded blocky and aplitic units. 10-15% petalite to 15cm, 2-3% garnet, minor yellow-green mica - moderate oxides. - banding at 45°-50° TCA. 75.60-77.27: albitic aplitic, Qtz + alb + garnet musc. 77.27-77.57: orbitite with coarse cordierite bouts to 1.0 cm.								
77.57	91.90	Amphibolite	med. grained, black, aphyric to Hd. phytic 90.89-91.29: albitic aplitic.								
	91.9	E.O.H.									

0204 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

## 8. Pegmatite Lithologies

### A. Aplitic units

- albitite -  $qtz + alb \pm mica \pm gar$
- $qtz + alb + mica + holmquistite \pm cord.$
- mixed albitic aplite and med. gr - blocky phases.

### B. Medium grained - blocky pegmatite

- $Qtz + Fs + biotite$
- " + musc.
- " + musc + bio
- $Qtz + Kspar + albite + mica$
- $Qtz + albite + Kspar + mica.$

### C. Quartz-rich units.

- quartz - massive
- $qtz + mica + holmquistite \pm cord.$

### D. Petalite-bearing units.

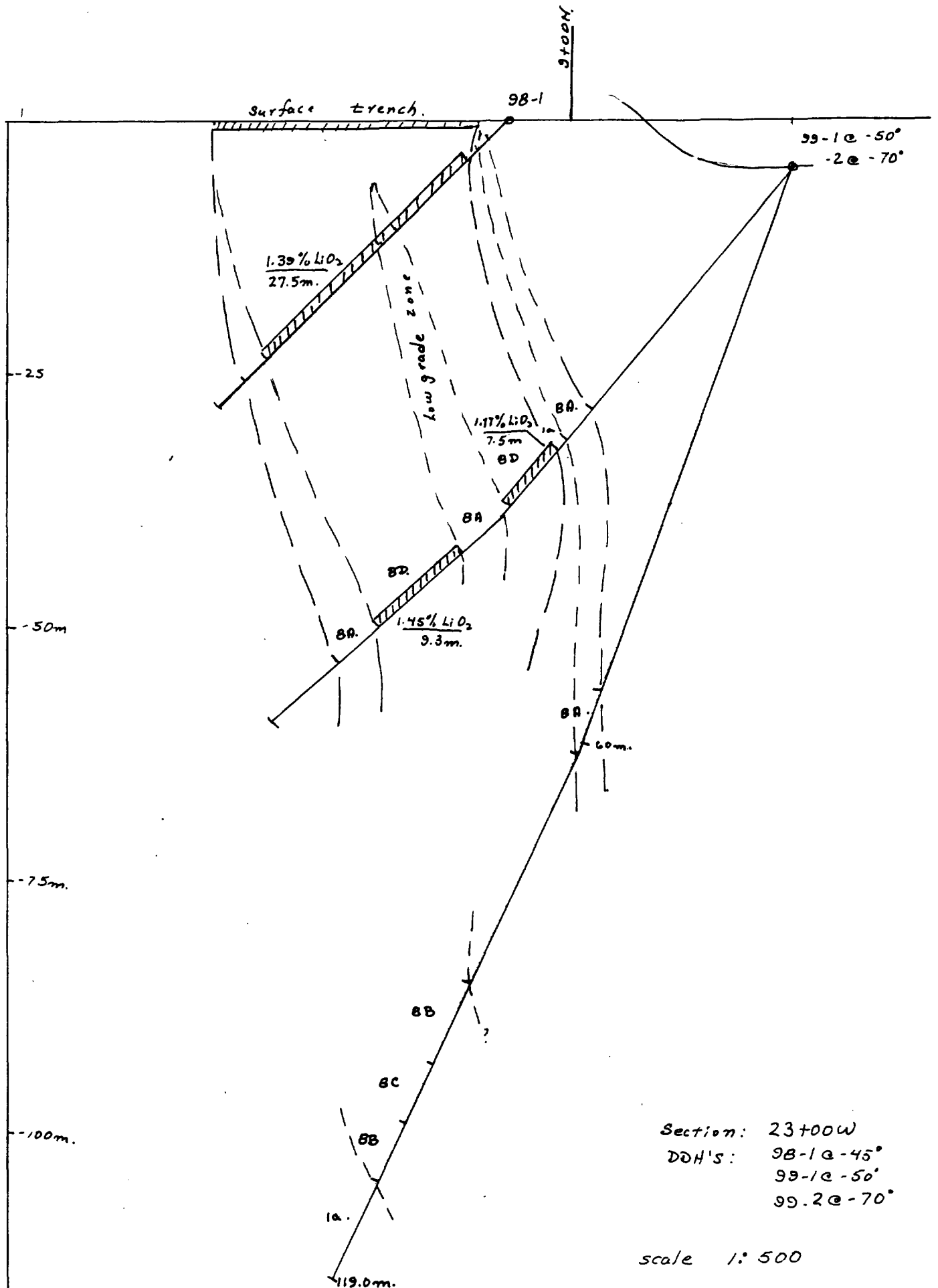
- blocky/med.  $Pet + Alb. + Kspar + mica \pm gar$
- aplitic  $Pet + qtz + alb + mica \pm gar.$

## 6. Mafic Intrusives

- gabbro, hbd. phytic.

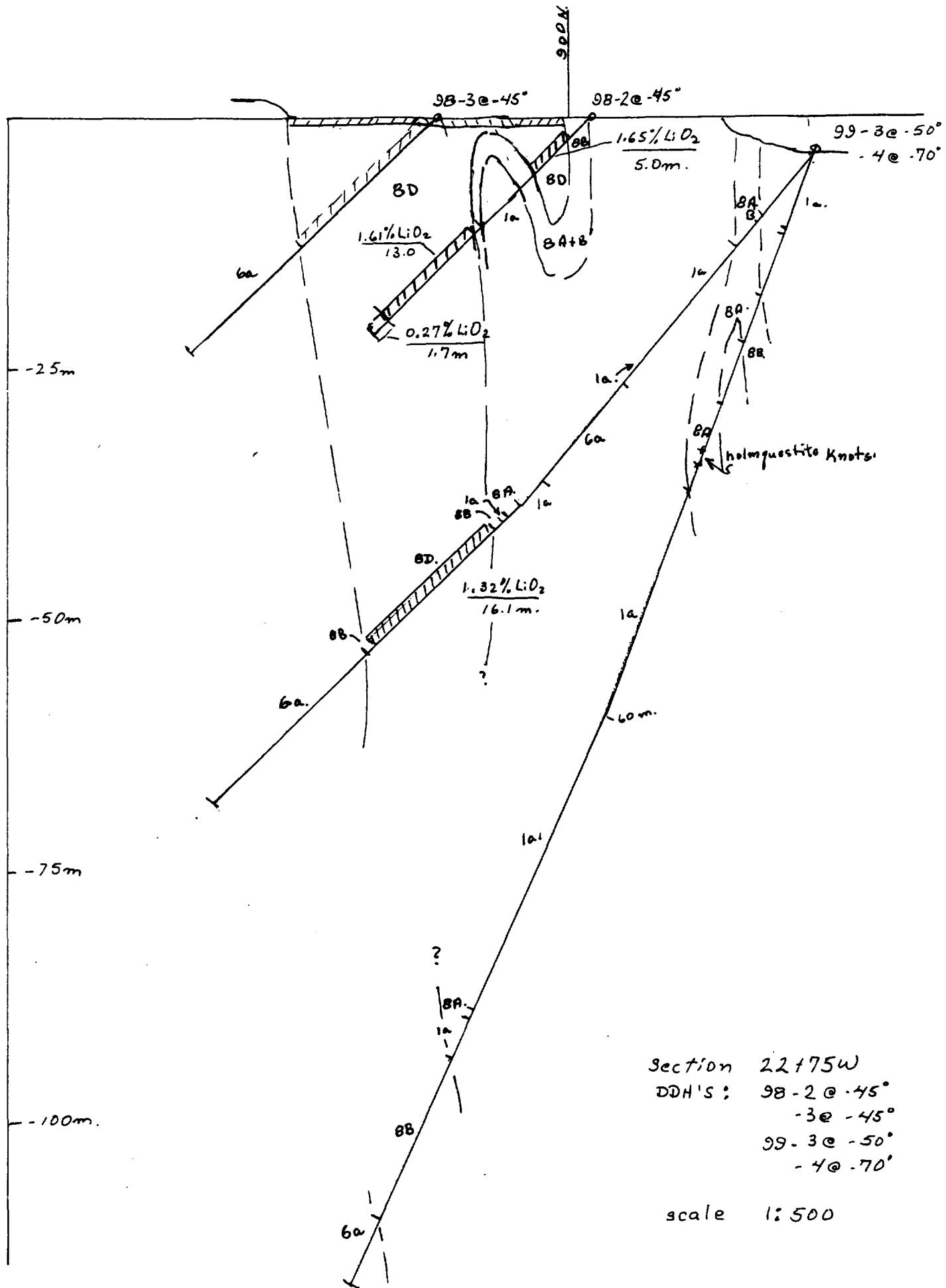
### 1. Mafic Meta volcanics

- massive flows - fer. amphibolite
- pillowed flows
- tuff & inter flow sediments
- medium grained massive flows, possibly gabbro

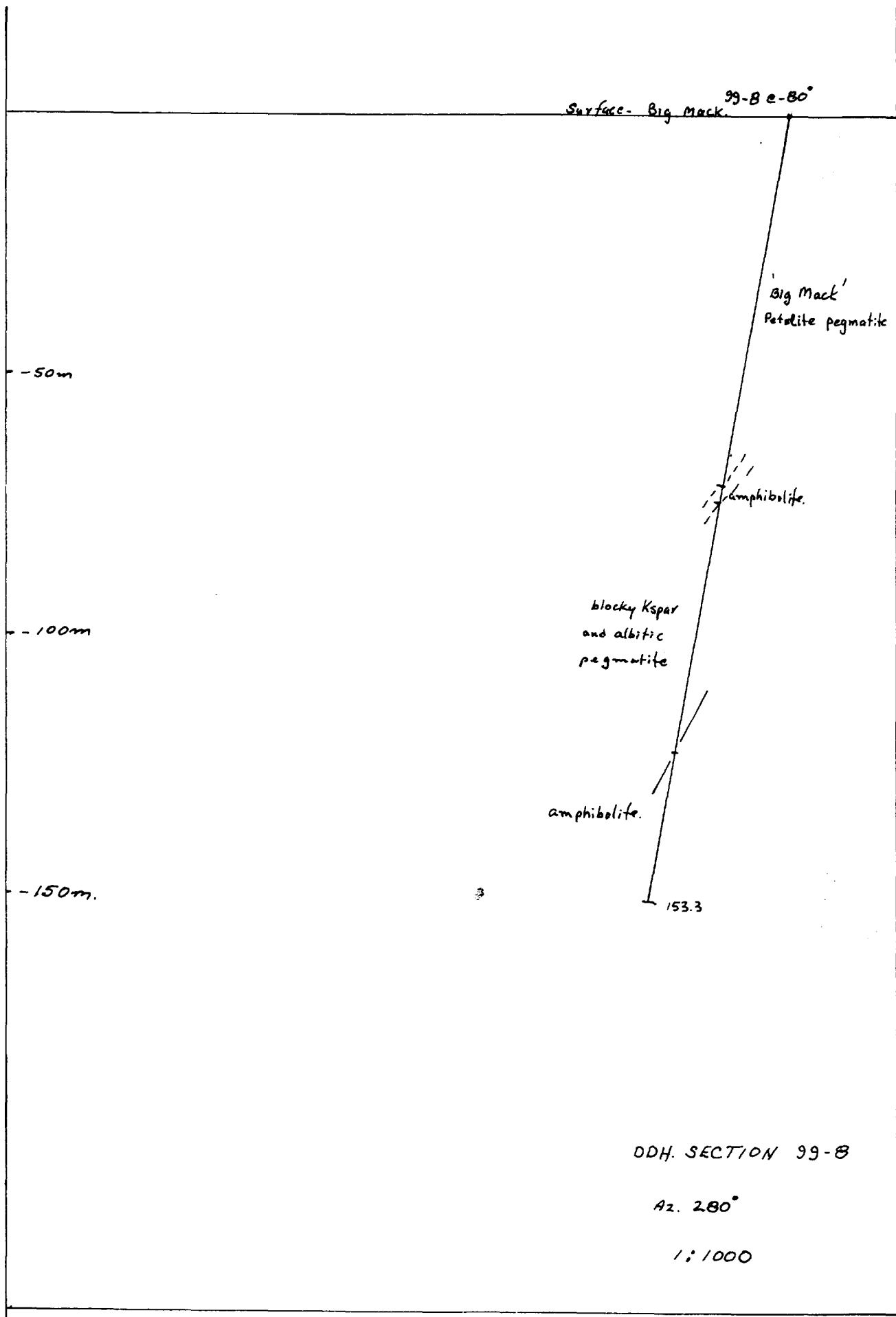


Section: 23+00W  
 DDH'S: 98-1a-45°  
 99-1a-50°  
 99-2a-70°

scale 1:500







Surface - Big Mack. 99-8 e-80°

'Big Mack'  
Petalite pegmatite

-50m

amphibolite.

-100m

blocky Kspar  
and albitic  
pegmatite

amphibolite.

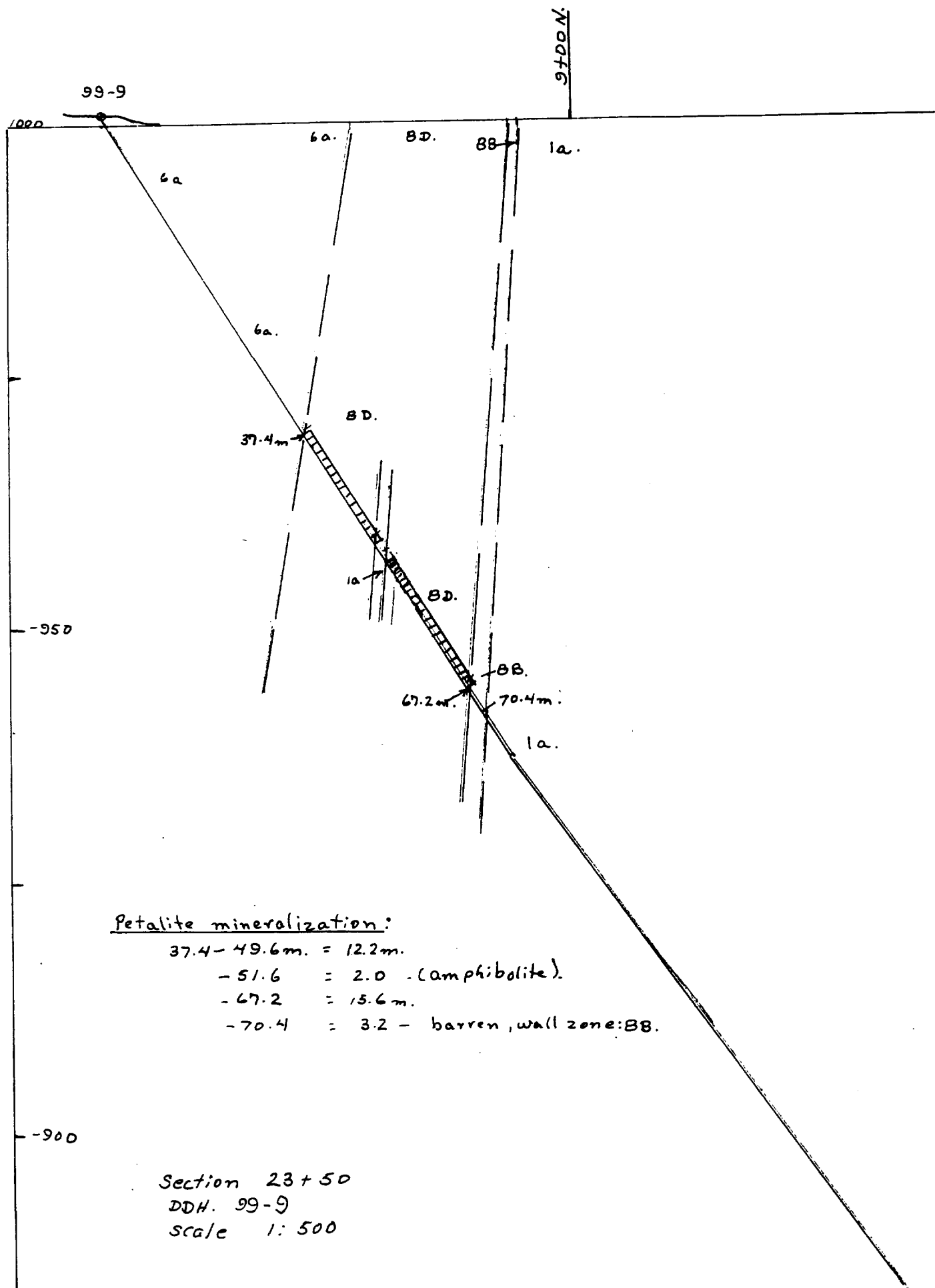
-150m.

153.3

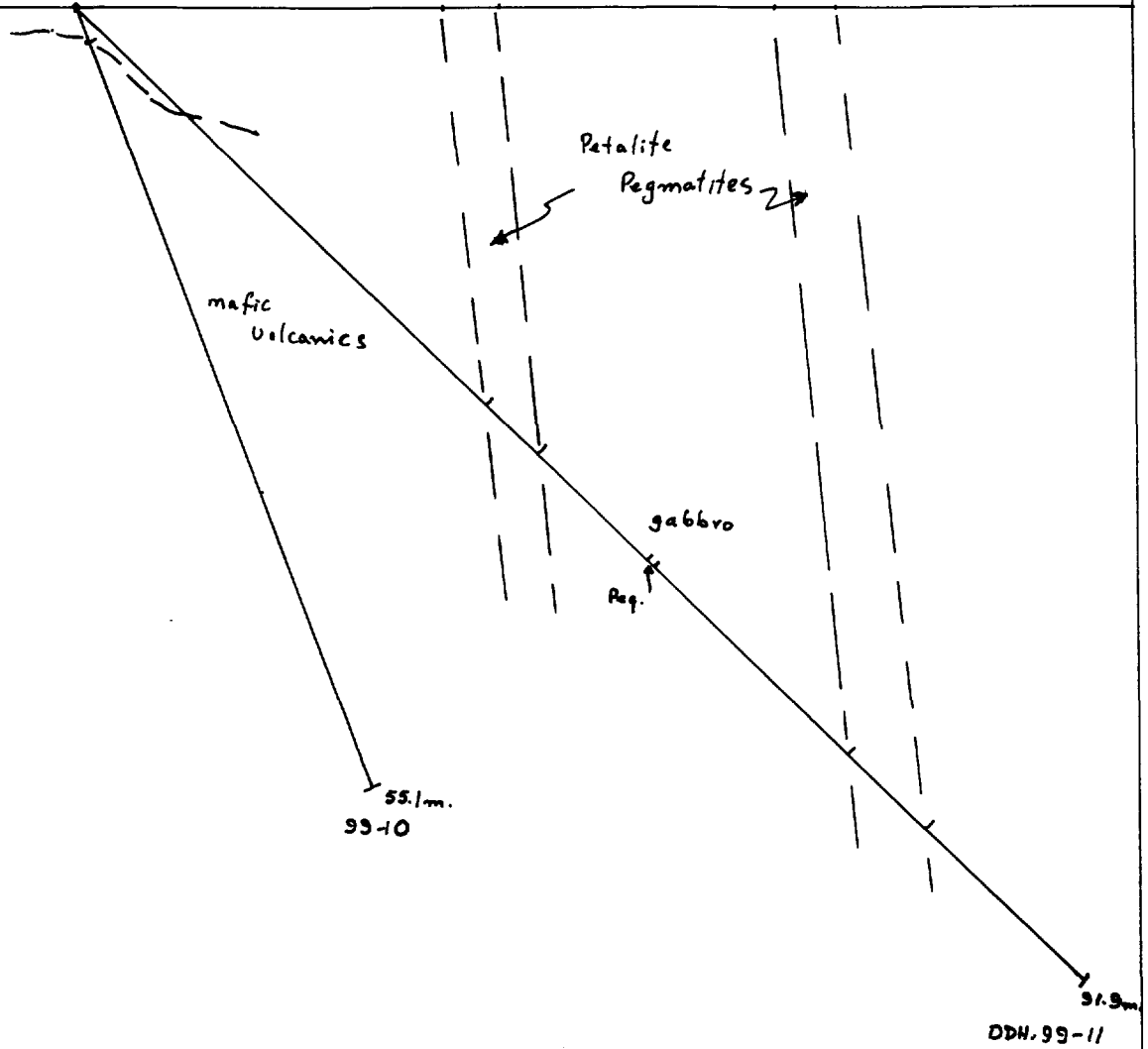
ODH SECTION 99-8

Az. 280°

1:1000



SR-99-10e-70  
-11e-45



Section 25 + 10 W

DDH'S 99-10, 11

1:500

viewing west.



APPENDIX NO. 3



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

5175 Timberlea Blvd., Mississauga  
Ontario, Canada L4W 2S3  
PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

A9917740

Comments: ATTN: AL MOWAT

**CERTIFICATE** **A9917740**

(PJV) - EMERALD FIELDS RESOURCE CORP.

Project: EFR-SR/99  
P.O.#: EFR-99-1-2

Samples submitted to our lab in Thunder Bay, ON.  
This report was printed on 26-MAY-1999.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	48	Assay ring to approx 150 mesh
226	48	0-3 Kg crush and split
3202	48	Rock - save entire reject

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
356	48	Li %: HClO4-HNO3-HF digestion	AAS	0.01	100.0
<i>\$ 759.15</i>					



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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

Project: EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number :1  
Total Pages :2  
Certificate Date: 26-MAY-1999  
Invoice No. :19917740  
P.O. Number :EFR-99-1-2  
Account :PJV

## CERTIFICATE OF ANALYSIS

### A9917740

SAMPLE	PREP CODE	Li %											
548001	208 226	0.09											
548002	208 226	0.04											
548003	208 226	0.08											
548004	208 226	0.04											
548005	208 226	0.08											
548006	208 226	0.01											
548007	208 226	0.14											
548008	208 226	0.41											
548009	208 226	0.42											
548010	208 226	0.81											
548011	208 226	0.51											
548012	208 226	0.07											
548013	208 226	0.16											
548014	208 226	0.13											
548015	208 226	0.19											
548016	208 226	0.80											
548017	208 226	0.80											
548018	208 226	0.66											
548019	208 226	0.50											
548020	208 226	0.60											
548021	208 226	0.15											
548022	208 226	0.03											
548023	208 226	0.01											
548024	208 226	0.03											
548025	208 226	0.11											
548026	208 226	0.06											
548027	208 226	0.04											
548028	208 226	0.06											
548029	208 226	0.04											
548030	208 226	0.01											
548031	208 226	0.01											
548032	208 226	< 0.01											
548033	208 226	0.06											
548034	208 226	0.11											
548035	208 226	0.01											
548036	208 226	0.01											
548037	208 226	0.02											
548038	208 226	0.12											
548039	208 226	0.03											
548040	208 226	0.11											

EFR. 99-1

EFR. 99-2

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project : EFR-SR/99  
 Comments: ATTN: AL MOWAT

Page Number : 2  
 Total Pages : 2  
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 Account : PJV

<b>CERTIFICATE OF ANALYSIS</b>	<b>A9917740</b>
--------------------------------	-----------------

EFR-99-2

SAMPLE	PREP	CODE	Li	%							
548041	208	226	0.06								
548042	208	226	0.05								
548043	208	226	0.08								
548044	208	226	0.05								
548045	208	226	0.04								
548046	208	226	0.03								
548047	208	226	0.01								
548048	208	226	0.10								

CERTIFICATION:



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 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

A9917738

Comments: ATTN: AL MOWAT

**CERTIFICATE** **A9917738**

(PJV) - EMERALD FIELDS RESOURCE CORP.

Project: EFR-SR/99  
 P.O. #: EFR-99-1-2

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 04-JUN-1999.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	48	Pulp; prepped on other workorder
200	48	Whole rock fusion
297	48	Meta-borate fusion charge

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2855	48	Ba ppm: ICP-MS	ICP-MS	0.5	10000
2501	48	Ce ppm: ICP-MS	ICP-MS	0.5	10000
2858	48	Cs ppm: ICP-MS	ICP-MS	0.1	10000
2859	48	Co ppm: ICP-MS	ICP-MS	0.5	10000
2860	48	Cu ppm: ICP-MS	ICP-MS	5	10000
2502	48	Dy ppm: ICP-MS	ICP-MS	0.1	1000
2503	48	Er ppm: ICP-MS	ICP-MS	0.1	1000
2504	48	Eu ppm: ICP-MS	ICP-MS	0.1	1000
2505	48	Gd ppm: ICP-MS	ICP-MS	0.1	1000
2861	48	Ga ppm: ICP-MS	ICP-MS	1	1000
2842	48	Hf ppm: ICP-MS	ICP-MS	1	10000
2506	48	Ho ppm: IPC-MS	ICP-MS	0.1	1000
2507	48	La ppm: ICP-MS	ICP-MS	0.5	10000
2862	48	Pb ppm: ICP-MS	ICP-MS	5	10000
2508	48	Lu ppm: ICP-MS	ICP-MS	0.1	1000
2509	48	Nd ppm: ICP-MS	ICP-MS	0.5	10000
2863	48	Ni ppm: ICP-MS	ICP-MS	5	10000
2844	48	Nb ppm: ICP-MS	ICP-MS	1	10000
2510	48	Pr ppm: ICP-MS	ICP-MS	0.1	1000
2864	48	Rb ppm: ICP-MS	ICP-MS	0.2	10000
2511	48	Sm ppm: ICP-MS	ICP-MS	0.1	1000
2865	48	Ag ppm: ICP-MS	ICP-MS	1	1000
2867	48	Sr ppm: ICP-MS	ICP-MS	0.1	10000
2868	48	Ta ppm: ICP-MS	ICP-MS	0.5	10000
2512	48	Tb ppm: ICP-MS	ICP-MS	0.1	1000
2869	48	Tl ppm: ICP-MS	ICP-MS	0.5	1000
2550	48	Th ppm: ICP-MS	ICP-MS	1	1000
2513	48	Tm ppm: ICP-MS	ICP-MS	0.1	1000
2870	48	Sn ppm: ICP-MS	ICP-MS	1	10000
2871	48	W ppm: ICP-MS	ICP-MS	1	10000
2549	48	U ppm: ICP-MS	ICP-MS	0.5	1000
2872	48	V ppm: ICP-MS	ICP-MS	5	10000
2514	48	Yb ppm: ICP-MS	ICP-MS	0.1	1000
2873	48	Y ppm: ICP-MS	ICP-MS	0.5	10000
2874	48	Zn ppm: ICP-MS	ICP-MS	5	10000
2875	48	Zr ppm: ICP-MS	ICP-MS	0.5	10000



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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project : EFR-SR/99  
 Comments: ATTN: AL MOWAT

Page Number : 1-A  
 Total Pages : 2  
 Certificate Date: 04-JUN-1999  
 Invoice No. : I9917738  
 P.O. Number : EFR-99-1-2  
 Account : PJV

## CERTIFICATE OF ANALYSIS A9917738

SAMPLE	PREP CODE	Ba ppm	Ce ppm	Cs ppm	Co ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Gd ppm	Ga ppm	Hf ppm	Ho ppm	La ppm	Pb ppm	Lu ppm	Nd ppm	Ni ppm	Nb ppm	Pr ppm
548001	299 200	45.5	4.5	80.1	53.5	160	2.4	1.6	0.5	2.2	11	< 1	0.6	0.5	20	0.3	3.5	205	< 1	0.6
548002	299 200	6.5	16.5	62.1	3.0	20	4.0	1.3	< 0.1	4.6	46	6	0.5	4.0	15	0.3	7.5	25	80	2.1
548003	299 200	34.5	5.0	171.5	47.5	65	3.0	1.9	0.6	2.3	17	1	0.6	0.5	20	0.3	4.5	135	1	0.7
548004	299 200	4.5	8.0	90.0	5.0	40	1.0	0.2	< 0.1	1.8	32	1	0.1	1.5	10	< 0.1	4.0	10	38	1.0
548005	299 200	13.5	5.0	177.5	51.5	30	3.0	1.9	0.6	2.8	15	1	0.7	0.5	< 5	0.3	4.5	140	2	0.8
548006	299 200	2.5	2.5	42.8	1.5	5	1.6	0.4	< 0.1	0.9	33	1	0.1	< 0.5	10	< 0.1	0.5	< 5	51	0.3
548007	299 200	21.0	4.5	340	37.0	105	2.5	1.6	0.6	2.1	21	1	0.5	0.5	< 5	0.3	3.5	100	6	0.6
548008	299 200	11.5	3.0	48.0	< 0.5	< 5	0.8	0.1	< 0.1	1.3	31	< 1	< 0.1	< 0.5	5	< 0.1	2.0	< 5	46	0.5
548009	299 200	6.0	2.0	24.0	< 0.5	< 5	1.4	0.3	< 0.1	1.1	34	< 1	0.1	< 0.5	15	< 0.1	1.0	< 5	58	0.2
548010	299 200	2.5	3.0	39.5	< 0.5	< 5	1.2	0.2	< 0.1	1.5	32	< 1	0.1	< 0.5	20	< 0.1	1.5	< 5	48	0.4
548011	299 200	< 0.5	2.0	21.6	< 0.5	< 5	1.2	0.2	< 0.1	1.2	40	< 1	0.1	< 0.5	20	< 0.1	1.0	< 5	56	0.3
548012	299 200	< 0.5	1.5	25.9	< 0.5	< 5	0.6	< 0.1	< 0.1	0.7	35	< 1	< 0.1	< 0.5	10	< 0.1	0.5	< 5	46	0.1
548013	299 200	< 0.5	2.0	26.7	< 0.5	< 5	1.1	0.2	< 0.1	1.2	38	1	0.1	< 0.5	5	< 0.1	0.5	< 5	56	0.1
548014	299 200	< 0.5	2.0	24.5	< 0.5	< 5	0.3	< 0.1	< 0.1	0.3	32	< 1	< 0.1	< 0.5	5	< 0.1	1.0	< 5	62	0.2
548015	299 200	5.0	< 0.5	29.0	< 0.5	< 5	0.8	0.1	< 0.1	0.8	31	< 1	< 0.1	< 0.5	5	< 0.1	< 0.5	< 5	39	< 0.1
548016	299 200	< 0.5	< 0.5	25.0	< 0.5	< 5	0.4	< 0.1	< 0.1	0.5	34	< 1	< 0.1	< 0.5	10	< 0.1	< 0.5	< 5	52	< 0.1
548017	299 200	< 0.5	1.0	18.2	< 0.5	< 5	0.7	0.1	< 0.1	0.7	38	< 1	< 0.1	< 0.5	20	< 0.1	< 0.5	< 5	67	< 0.1
548018	299 200	1.0	1.0	19.2	< 0.5	< 5	0.9	0.2	< 0.1	0.9	37	< 1	0.1	< 0.5	30	< 0.1	0.5	< 5	60	< 0.1
548019	299 200	2.0	0.5	17.1	< 0.5	5	1.0	0.1	< 0.1	0.8	39	< 1	< 0.1	< 0.5	20	< 0.1	< 0.5	< 5	64	< 0.1
548020	299 200	< 0.5	1.5	16.2	< 0.5	15	1.2	0.3	< 0.1	1.0	32	< 1	0.1	< 0.5	5	< 0.1	0.5	< 5	46	0.1
548021	299 200	9.5	3.0	12.0	< 0.5	< 5	1.7	0.3	< 0.1	1.5	46	< 1	0.1	< 0.5	40	< 0.1	1.5	< 5	66	0.4
548022	299 200	6.5	6.0	8.4	< 0.5	< 5	1.8	0.3	< 0.1	2.4	38	< 1	0.1	1.5	5	< 0.1	3.5	< 5	62	0.9
548023	299 200	< 0.5	4.5	9.5	< 0.5	5	2.7	0.7	< 0.1	2.1	40	1	0.3	< 0.5	30	0.1	2.0	< 5	100	0.6
548024	299 200	3.5	3.5	35.5	1.5	5	1.5	0.5	< 0.1	1.6	42	< 1	0.2	< 0.5	15	< 0.1	1.5	< 5	77	0.4
548025	299 200	14.5	3.5	150.5	51.0	120	2.1	1.2	0.5	1.6	15	< 1	0.5	< 0.5	25	0.2	3.0	250	1	0.5
548026	299 200	22.5	3.5	75.1	59.0	105	2.6	1.6	0.5	2.0	20	< 1	0.5	0.5	5	0.2	3.5	295	23	0.6
548027	299 200	10.5	5.0	55.9	9.0	40	0.9	0.2	< 0.1	1.7	65	< 1	< 0.1	0.5	25	< 0.1	3.5	40	302	0.7
548028	299 200	21.5	4.0	74.6	60.0	135	2.4	1.5	0.5	1.9	15	< 1	0.6	0.5	20	0.3	3.5	290	3	0.6
548029	299 200	9.5	3.5	19.8	59.0	100	2.2	1.7	0.5	1.9	15	< 1	0.6	0.5	10	0.3	3.5	265	1	0.5
548030	299 200	4.0	3.5	15.5	0.5	10	1.3	0.5	< 0.1	1.3	48	< 1	0.1	< 0.5	5	< 0.1	2.0	< 5	82	0.5
548031	299 200	2.5	3.0	8.5	0.5	< 5	1.1	0.3	< 0.1	0.9	42	1	0.1	< 0.5	10	< 0.1	1.5	< 5	73	0.4
548032	299 200	1.5	6.5	15.4	0.5	< 5	2.7	0.6	< 0.1	2.6	45	1	0.3	1.0	20	< 0.1	3.0	5	112	0.8
548033	299 200	41.0	4.5	50.4	58.0	165	2.7	1.8	0.5	2.4	15	1	0.6	0.5	5	0.3	3.5	245	1	0.6
548034	299 200	46.0	5.0	131.0	48.5	135	2.7	1.7	0.6	2.2	16	< 1	0.6	1.0	5	0.2	4.0	150	< 1	0.7
548035	299 200	5.5	2.0	33.5	1.5	5	0.5	0.1	< 0.1	0.5	33	< 1	< 0.1	< 0.5	< 5	< 0.1	1.0	< 5	43	0.1
548036	299 200	< 0.5	2.0	27.2	< 0.5	< 5	0.5	< 0.1	< 0.1	0.5	31	< 1	< 0.1	< 0.5	30	< 0.1	0.5	< 5	51	< 0.1
548037	299 200	2.5	2.0	19.6	< 0.5	5	1.1	0.3	< 0.1	0.9	34	< 1	0.1	< 0.5	5	< 0.1	< 0.5	< 5	57	0.1
548038	299 200	18.0	5.0	169.5	52.0	75	3.0	2.0	0.7	2.6	20	1	0.6	1.5	10	0.3	4.5	135	3	0.8
548039	299 200	1.5	0.5	52.5	0.5	< 5	0.6	0.1	< 0.1	0.5	34	< 1	< 0.1	< 0.5	5	< 0.1	0.5	< 5	67	< 0.1
548040	299 200	< 0.5	2.0	36.8	0.5	5	0.5	< 0.1	< 0.1	0.7	33	< 1	< 0.1	< 0.5	5	< 0.1	0.5	< 5	61	0.1

CERTIFICATION: 



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timbertea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project : EFR-SR/99  
 Comments: ATTN: AL MOWAT

Page Number : 1-B  
 Total Pages : 2  
 Certificate Date: 04-JUN-1999  
 Invoice No. : 19917738  
 P.O. Number : EFR-99-1-2  
 Account : PJV

## CERTIFICATE OF ANALYSIS A9917738

SAMPLE	PREP		Rb	Sm	Ag	Sr	Ta	Tb	Tl	Th	Tm	Sn	W	U	V	Yb	Y	Zn	Zr
	CODE		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548001	299	200	876	1.4	< 1	55.6	0.5	0.3	4.5	< 1	0.2	23	< 1	< 0.5	240	1.6	14.0	95	39.5
548002	299	200	557	4.8	< 1	11.2	28.0	0.8	2.5	6	0.3	101	< 1	20.0	< 5	2.0	21.0	80	69.5
548003	299	200	1315	1.9	< 1	44.9	4.0	0.5	6.0	< 1	0.3	79	1	< 0.5	260	2.1	16.0	170	28.0
548004	299	200	820	2.3	< 1	20.8	37.0	0.3	4.0	8	< 0.1	40	< 1	4.0	10	0.3	4.5	45	17.0
548005	299	200	1305	1.6	< 1	39.1	3.0	0.5	6.5	< 1	0.3	117	< 1	< 0.5	290	2.1	17.0	125	35.5
548006	299	200	1595	0.8	< 1	6.0	23.5	0.2	6.5	4	< 0.1	110	1	6.0	< 5	0.7	8.5	85	11.5
548007	299	200	1710	1.6	< 1	61.3	11.0	0.4	8.5	< 1	0.2	58	8	1.5	210	1.5	13.5	85	31.5
548008	299	200	3040	1.4	< 1	22.9	23.0	0.2	12.5	3	< 0.1	44	< 1	3.5	< 5	0.1	4.0	100	0.5
548009	299	200	1725	0.6	< 1	6.6	31.0	0.3	7.0	3	< 0.1	57	< 1	5.0	< 5	0.3	6.5	100	2.0
548010	299	200	3490	1.3	< 1	4.7	21.5	0.3	14.5	3	< 0.1	50	< 1	3.5	< 5	0.3	5.5	60	< 0.5
548011	299	200	1575	1.1	< 1	8.3	38.0	0.2	6.5	1	< 0.1	49	< 1	1.5	< 5	0.3	5.5	125	< 0.5
548012	299	200	2400	0.6	< 1	3.5	30.0	0.1	10.5	1	< 0.1	56	< 1	3.0	< 5	0.1	3.0	100	1.5
548013	299	200	2340	0.9	< 1	0.9	35.5	0.2	9.0	7	< 0.1	60	< 1	18.0	< 5	0.5	6.0	125	8.5
548014	299	200	2920	0.4	< 1	4.4	27.0	< 0.1	11.0	2	< 0.1	49	< 1	3.5	< 5	0.1	1.5	110	< 0.5
548015	299	200	3200	0.5	< 1	4.1	16.0	0.2	13.5	1	< 0.1	97	< 1	3.0	< 5	0.3	4.0	90	< 0.5
548016	299	200	1975	0.6	< 1	4.7	35.5	0.1	8.0	< 1	< 0.1	48	< 1	2.5	< 5	0.1	2.0	180	< 0.5
548017	299	200	2000	0.7	< 1	7.7	34.0	0.2	8.0	2	< 0.1	75	< 1	3.5	< 5	0.2	3.5	105	< 0.5
548018	299	200	3160	0.7	< 1	6.8	28.5	0.2	14.0	2	< 0.1	74	1	3.0	< 5	0.2	4.5	85	< 0.5
548019	299	200	2280	0.7	< 1	3.6	37.5	0.2	9.0	2	< 0.1	96	2	3.5	< 5	0.2	4.0	330	< 0.5
548020	299	200	2560	1.1	< 1	4.2	22.5	0.3	11.0	2	< 0.1	65	1	3.0	< 5	0.3	6.0	100	< 0.5
548021	299	200	2920	1.4	< 1	7.0	35.5	0.4	12.5	4	< 0.1	112	3	5.0	< 5	0.5	8.5	110	9.0
548022	299	200	2340	2.3	< 1	7.2	22.0	0.4	9.5	7	< 0.1	83	1	5.0	< 5	0.5	8.0	65	1.5
548023	299	200	2240	1.9	< 1	2.7	35.0	0.6	8.0	8	0.1	90	1	14.0	< 5	1.0	14.0	60	12.5
548024	299	200	1530	1.4	< 1	10.2	45.5	0.4	5.5	6	< 0.1	188	< 1	9.0	< 5	0.5	7.5	65	3.5
548025	299	200	659	1.1	< 1	83.7	2.0	0.3	3.5	1	0.1	10	< 1	< 0.5	235	1.6	11.5	85	23.0
548026	299	200	2290	1.7	< 1	42.2	7.0	0.4	9.0	< 1	0.2	197	11	< 0.5	250	1.6	13.5	190	25.0
548027	299	200	2000	2.2	< 1	23.6	50.5	0.3	9.0	16	< 0.1	241	2	9.5	20	0.2	5.0	300	8.0
548028	299	200	1810	1.2	< 1	68.3	0.5	0.4	8.5	< 1	0.2	28	< 1	< 0.5	265	1.8	14.0	105	30.5
548029	299	200	132.5	1.3	< 1	83.9	< 0.5	0.4	1.0	< 1	0.2	19	10	< 0.5	255	1.5	13.5	95	29.0
548030	299	200	2130	1.1	< 1	6.7	29.0	0.3	7.5	6	< 0.1	261	1	8.0	< 5	0.5	7.0	120	8.0
548031	299	200	2010	0.9	< 1	3.7	19.5	0.2	7.0	4	< 0.1	186	< 1	10.5	< 5	0.4	6.0	115	15.5
548032	299	200	1610	2.5	< 1	7.1	50.0	0.6	5.5	11	0.1	884	< 1	15.5	< 5	1.0	13.0	65	13.5
548033	299	200	577	1.4	< 1	81.2	< 0.5	0.4	3.0	1	0.3	21	< 1	< 0.5	280	1.7	15.0	95	31.0
548034	299	200	443	1.5	< 1	63.5	3.0	0.4	2.5	< 1	0.3	12	1	< 0.5	270	1.6	15.5	120	32.5
548035	299	200	1490	0.5	< 1	7.3	23.0	0.1	5.5	1	< 0.1	94	< 1	2.0	< 5	0.1	3.0	95	10.5
548036	299	200	2670	0.5	< 1	1.7	20.5	0.1	10.5	1	< 0.1	88	< 1	2.0	< 5	0.1	2.5	85	2.0
548037	299	200	1990	0.6	< 1	8.4	24.0	0.2	7.5	3	< 0.1	50	< 1	3.5	< 5	0.3	7.0	65	5.5
548038	299	200	1450	1.6	< 1	86.3	10.0	0.4	7.0	< 1	0.3	27	< 1	< 0.5	290	2.2	18.0	155	47.0
548039	299	200	2700	0.4	< 1	5.1	27.0	0.1	10.0	1	< 0.1	40	< 1	2.5	< 5	0.2	3.0	85	2.0
548040	299	200	2130	0.6	< 1	2.0	26.5	0.1	8.5	3	< 0.1	30	< 1	4.5	< 5	0.1	2.5	80	0.5

CERTIFICATION: 



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

Project: EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number :2-A  
Total Pages :2  
Certificate Date: 04-JUN-1999  
Invoice No. :19917738  
P.O. Number :EFR-99-1-2  
Account :PJV

## CERTIFICATE OF ANALYSIS

### A9917738

SAMPLE	PREP		Ba	Ce	Cs	Co	Cu	Dy	Er	Eu	Gd	Ga	Hf	Ho	La	Pb	Lu	Nd	Ni	Nb	Pr
	CODE		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548041	299	200	< 0.5	1.5	45.4	< 0.5	< 5	0.5	0.1	< 0.1	0.6	34	< 1	< 0.1	< 0.5	15	< 0.1	0.5	< 5	63	0.1
548042	299	200	< 0.5	2.5	47.7	< 0.5	40	0.6	< 0.1	< 0.1	0.6	33	< 1	< 0.1	< 0.5	20	< 0.1	0.5	< 5	55	0.2
548043	299	200	< 0.5	2.0	39.8	0.5	< 5	0.5	< 0.1	< 0.1	0.6	35	< 1	< 0.1	< 0.5	25	< 0.1	0.5	5	45	0.2
548044	299	200	< 0.5	1.5	30.9	4.0	105	0.3	< 0.1	< 0.1	0.5	33	< 1	< 0.1	< 0.5	20	< 0.1	0.5	190	67	0.1
548045	299	200	< 0.5	2.5	34.6	4.0	35	0.5	< 0.1	< 0.1	0.4	33	< 1	< 0.1	0.5	15	< 0.1	0.5	180	57	0.2
548046	299	200	12.0	3.0	36.3	0.5	< 5	0.5	0.1	< 0.1	0.8	35	< 1	< 0.1	0.5	5	< 0.1	0.5	< 5	49	0.2
548047	299	200	1.0	2.0	25.1	0.5	5	0.8	0.1	< 0.1	0.5	32	< 1	< 0.1	< 0.5	15	< 0.1	0.5	< 5	36	0.1
548048	299	200	28.0	4.0	191.5	46.0	325	2.5	1.6	0.4	2.1	16	< 1	0.5	< 0.5	5	0.3	3.5	90	4	0.5

CERTIFICATION: \_\_\_\_\_





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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

Project : EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number :2-B  
Total Pages :2  
Certificate Date: 04-JUN-1999  
Invoice No. : I9917738  
P.O. Number : EFR-99-1-2  
Account : PJV

## CERTIFICATE OF ANALYSIS

### A9917738

SAMPLE	PREP CODE		Rb	Sm	Ag	Sr	Ta	Tb	Tl	Th	Tm	Sn	W	U	V	Yb	Y	Zn	Zr
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548041	299	200	1885	0.5	< 1	1.8	23.0	0.1	7.0	1	< 0.1	15	< 1	3.5	< 5	0.1	3.5	70	1.5
548042	299	200	1965	0.6	< 1	3.1	15.5	0.1	6.0	1	< 0.1	13	< 1	5.5	< 5	0.1	2.5	1020	< 0.5
548043	299	200	2030	0.5	< 1	3.2	14.0	0.1	7.0	1	< 0.1	18	< 1	4.5	< 5	< 0.1	2.5	205	< 0.5
548044	299	200	2380	0.4	< 1	2.7	23.0	0.1	8.0	1	< 0.1	19	< 1	2.5	< 5	< 0.1	2.0	235	< 0.5
548045	299	200	2260	0.4	< 1	2.6	17.5	0.1	8.5	1	< 0.1	22	< 1	3.5	< 5	0.1	2.0	80	< 0.5
548046	299	200	2710	0.5	< 1	10.7	13.5	0.1	11.0	2	< 0.1	21	< 1	3.5	< 5	0.1	2.5	95	< 0.5
548047	299	200	1530	0.5	< 1	9.0	17.0	0.1	6.0	1	< 0.1	12	< 1	3.0	< 5	0.2	4.0	40	0.5
548048	299	200	1440	1.4	< 1	75.7	17.5	0.4	7.0	< 1	0.2	12	< 1	0.5	260	1.4	14.5	95	26.0

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

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Ontario, Canada L4W 2S3  
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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

A9917997

Comments: ATTN: AL MOWAT

**CERTIFICATE**

**A9917997**

(PJV) - EMERALD FIELDS RESOURCE CORP.

Project: EFR-SR/99  
P.O.#: EFR-99-3 / 4

Samples submitted to our lab in Thunder Bay, ON.  
This report was printed on 28-MAY-1999.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	55	Assay ring to approx 150 mesh
226	34	0-3 Kg crush and split
294	21	4-7 Kg crush and split
3202	55	Rock - save entire reject

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
356	55	Li %: HClO4-HNO3-HF digestion	AAS	0.01	100.0

896.15



# Chemex Labs Ltd.

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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2


Project : EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number : 1  
Total Pages : 2  
Certificate Date: 28-MAY-1999  
Invoice No. : I9917997  
P.O. Number : EFR-99-3/4  
Account : PJV

## CERTIFICATE OF ANALYSIS

### A9917997

SAMPLE	PREP CODE	Li %										
548049	208 226	0.04										
548050	208 294	0.01										
548051	208 226	< 0.01										
548052	208 226	0.05										
548053	208 226	0.04										
548054	208 226	0.01										
548055	208 226	0.07										
548056	208 226	0.12										
548057	208 226	0.10										
548058	208 226	0.19										
548059	208 226	0.15										
548060	208 294	0.89										
548061	208 294	0.73										
548062	208 294	0.37										
548063	208 226	0.66										
548064	208 294	0.25										
548065	208 294	0.79										
548066	208 226	0.24										
548067	208 226	0.79										
548068	208 226	0.61										
548069	208 226	0.12										
548070	208 226	0.19										
548071	208 226	0.03										
548072	208 226	0.14										
548073	208 226	< 0.01										
548074	208 226	0.03										
548075	208 226	0.01										
548076	208 294	0.03										
548077	208 294	0.03										
548078	208 226	0.07										
548079	208 294	0.01										
548080	208 294	0.01										
548081	208 294	0.04										
548082	208 226	0.04										
548083	208 294	0.05										
548084	208 294	0.01										
548085	208 294	0.02										
548086	208 294	0.01										
548087	208 226	0.02										
548088	208 294	0.08										

CERTIFICATION: 

99-3

99-4



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
5175 Timberlea Blvd., Mississauga  
Ontario, Canada L4W 2S3  
PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

Project : EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number :2  
Total Pages :2  
Certificate Date: 28-MAY-1999  
Invoice No. : 19917997  
P.O. Number : EFR-99-3 /4  
Account : PJV

## CERTIFICATE OF ANALYSIS

### A9917997

99-4

SAMPLE	PREP CODE		Li %									
548089	208	226	0.06									
548090	208	226	0.01									
548091	208	226	0.13									
548092	208	226	0.04									
548093	208	294	0.09									
548094	208	294	0.04									
548095	208	294	0.04									
548096	208	294	0.04									
548097	208	294	0.05									
548098	208	226	0.05									
548099	208	226	0.04									
548100	208	226	0.03									
548101	208	226	0.02									
548102	208	226	0.01									
548103	208	226	0.14									

CERTIFICATION:



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1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

A9917999

Comments: ATTN: AL MOWAT

**CERTIFICATE**

**A9917999**

(PJV) - EMERALD FIELDS RESOURCE CORP.

Project: EFR-SR/99  
 P.O. #: EFR-99-3

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 10-JUN-1999.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	55	Pulp; prepped on other workorder
200	55	Whole rock fusion
297	55	Meta-borate fusion charge

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2855	55	Ba ppm: ICP-MS	ICP-MS	0.5	10000
2501	55	Ce ppm: ICP-MS	ICP-MS	0.5	10000
2858	55	Cs ppm: ICP-MS	ICP-MS	0.1	10000
2859	55	Co ppm: ICP-MS	ICP-MS	0.5	10000
2860	55	Cu ppm: ICP-MS	ICP-MS	5	10000
2502	55	Dy ppm: ICP-MS	ICP-MS	0.1	1000
2503	55	Er ppm: ICP-MS	ICP-MS	0.1	1000
2504	55	Fu ppm: ICP-MS	ICP-MS	0.1	1000
2505	55	Gd ppm: ICP-MS	ICP-MS	0.1	1000
2861	55	Ga ppm: ICP-MS	ICP-MS	1	1000
2842	55	Hf ppm: ICP-MS	ICP-MS	1	10000
2506	55	Ho ppm: IPC-MS	ICP-MS	0.1	1000
2507	55	La ppm: ICP-MS	ICP-MS	0.5	10000
2862	55	Pb ppm: ICP-MS	ICP-MS	5	10000
2508	55	Lu ppm: ICP-MS	ICP-MS	0.1	1000
2509	55	Nd ppm: ICP-MS	ICP-MS	0.5	10000
2863	55	Ni ppm: ICP-MS	ICP-MS	5	10000
2844	55	Nb ppm: ICP-MS	ICP-MS	1	10000
2510	55	Pr ppm: ICP-MS	ICP-MS	0.1	1000
2864	55	Rb ppm: ICP-MS	ICP-MS	0.2	10000
2511	55	Sr ppm: ICP-MS	ICP-MS	0.1	1000
2865	55	Ag ppm: ICP-MS	ICP-MS	1	1000
2867	55	Sr ppm: ICP-MS	ICP-MS	0.1	10000
2868	55	Ta ppm: ICP-MS	ICP-MS	0.5	10000
2512	55	Tb ppm: ICP-MS	ICP-MS	0.1	1000
2869	55	Tl ppm: ICP-MS	ICP-MS	0.5	1000
2550	55	Th ppm: ICP-MS	ICP-MS	1	1000
2513	55	Tm ppm: ICP-MS	ICP-MS	0.1	1000
2870	55	Sn ppm: ICP-MS	ICP-MS	1	10000
2871	55	W ppm: ICP-MS	ICP-MS	1	10000
2549	55	U ppm: ICP-MS	ICP-MS	0.5	1000
2872	55	V ppm: ICP-MS	ICP-MS	5	10000
2514	55	Yb ppm: ICP-MS	ICP-MS	0.1	1000
2873	55	Y ppm: ICP-MS	ICP-MS	0.5	10000
2874	55	Zn ppm: ICP-MS	ICP-MS	5	10000
2875	55	Zr ppm: ICP-MS	ICP-MS	0.5	10000



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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project: EFR-SR/99  
 Comments: ATTN: AL MOWAT

Page Number : 1-A  
 Total Pages : 2  
 Certificate Date: 10-JUN-1999  
 Invoice No. : I9917999  
 P.O. Number : EFR-99-3  
 Account : PJV

## CERTIFICATE OF ANALYSIS A9917999

SAMPLE	PREP CODE		Ba	Ce	Cs	Co	Cu	Dy	Er	Eu	Gd	Ga	Hf	Ho	La	Pb	Lu	Nd	Ni	Nb	Pr
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548049	299	200	36.5	8.0	63.8	52.0	155	3.5	2.2	0.8	3.0	17	1	0.8	3.0	< 5	0.4	6.0	165	1	1.3
548050	299	200	8.0	2.5	38.5	3.0	100	2.2	0.6	< 0.1	1.1	30	3	0.3	1.0	< 5	0.1	1.5	130	39	0.4
548051	299	200	1.5	2.0	16.2	13.0	810	1.7	0.5	< 0.1	0.8	32	4	0.2	0.5	< 5	0.1	0.5	375	11	0.3
548052	299	200	22.0	6.0	40.0	48.5	190	3.1	1.9	0.7	2.7	18	1	0.7	2.0	< 5	0.3	5.5	140	1	1.0
548053	299	200	16.0	6.5	34.2	51.5	185	3.2	2.1	0.7	2.9	17	1	0.7	2.5	< 5	0.3	5.5	160	2	1.1
548054	299	200	6.0	2.5	18.7	2.5	50	1.0	0.4	< 0.1	0.6	34	1	0.1	1.5	< 5	< 0.1	1.0	25	19	0.3
548055	299	200	50.5	6.5	141.0	47.5	140	3.0	1.9	0.7	2.7	18	1	0.7	2.5	< 5	0.3	5.5	130	6	1.1
548056	299	200	133.5	5.5	114.0	44.0	190	2.9	2.0	0.7	2.5	18	1	0.7	2.0	< 5	0.3	4.5	145	1	0.9
548057	299	200	11.0	2.0	44.3	1.0	30	1.2	0.3	< 0.1	1.1	42	3	0.1	0.5	< 5	< 0.1	1.0	40	81	0.4
548058	299	200	70.5	6.0	360	49.0	80	2.7	1.8	0.6	2.2	21	1	0.6	2.5	< 5	0.3	4.5	155	4	0.9
548059	299	200	8.5	4.0	63.9	4.5	30	1.3	0.3	< 0.1	1.6	45	< 1	0.1	1.5	< 5	< 0.1	2.5	25	54	0.7
548060	299	200	11.5	2.0	51.6	0.5	15	0.9	0.1	< 0.1	0.8	33	< 1	< 0.1	0.5	15	< 0.1	1.0	15	51	0.3
548061	299	200	2.0	2.5	47.4	0.5	10	0.9	0.1	< 0.1	1.3	41	< 1	< 0.1	1.0	< 5	< 0.1	1.5	15	74	0.4
548062	299	200	3.5	1.5	20.1	0.5	10	0.8	0.1	< 0.1	0.8	50	3	< 0.1	0.5	< 5	< 0.1	0.5	15	46	0.3
548063	299	200	< 0.5	0.5	21.0	< 0.5	10	0.6	0.1	< 0.1	0.4	42	3	< 0.1	< 0.5	40	< 0.1	< 0.5	10	47	0.1
548064	299	200	< 0.5	1.0	24.4	< 0.5	10	1.0	0.1	< 0.1	1.0	50	1	< 0.1	0.5	< 5	< 0.1	0.5	15	96	0.1
548065	299	200	2.5	1.5	31.8	0.5	10	1.0	0.2	< 0.1	0.6	34	< 1	0.1	0.5	< 5	< 0.1	0.5	35	60	0.1
548066	299	200	17.0	6.0	121.5	52.0	110	3.4	2.2	0.7	2.9	20	1	0.7	2.0	< 5	0.4	5.0	160	5	1.0
548067	299	200	6.0	2.0	34.8	0.5	15	1.4	0.3	< 0.1	1.3	36	< 1	0.1	0.5	< 5	< 0.1	1.0	10	51	0.3
548068	299	200	11.0	3.5	40.7	0.5	15	1.1	0.3	< 0.1	1.4	46	< 1	0.1	1.0	< 5	< 0.1	2.0	10	59	0.6
548069	299	200	13.0	4.0	20.0	0.5	20	1.5	0.4	< 0.1	1.4	38	< 1	0.1	1.5	115	< 0.1	2.0	15	63	0.6
548070	299	200	29.0	4.5	103.5	63.0	80	2.3	1.5	0.4	1.9	16	< 1	0.5	2.0	< 5	0.2	4.0	385	1	0.7
548071	299	200	30.0	7.0	65.0	54.0	300	3.7	2.4	0.8	2.9	17	1	0.8	2.5	< 5	0.4	6.0	180	< 1	1.2
548072	299	200	61.0	7.5	831	48.5	90	2.0	1.1	0.2	2.0	35	1	0.5	3.5	< 5	0.1	6.0	130	40	1.2
548073	299	200	9.5	3.5	26.9	2.0	50	1.8	0.5	0.1	1.1	33	1	0.2	1.5	< 5	0.1	2.0	15	16	0.6
548074	299	200	58.0	6.5	74.1	48.5	155	3.5	2.3	0.8	3.1	19	1	0.8	2.5	< 5	0.4	5.5	125	9	1.1
548075	299	200	25.0	3.0	45.9	4.5	40	0.9	0.3	0.1	1.1	35	3	0.1	1.5	< 5	< 0.1	2.0	25	28	0.5
548076	299	200	34.5	6.5	61.7	51.5	180	3.7	2.4	0.9	3.1	17	1	0.9	2.5	40	0.4	6.0	160	1	1.2
548077	299	200	11.0	2.5	19.9	23.0	90	1.7	1.1	0.3	1.4	8	< 1	0.4	0.5	< 5	0.1	2.5	55	< 1	0.5
548078	299	200	29.5	7.0	166.0	27.0	80	3.0	1.6	0.5	2.7	31	4	0.6	3.0	15	0.3	5.5	70	19	1.2
548079	299	200	4.5	3.0	47.6	3.0	30	1.5	0.5	< 0.1	1.3	36	4	0.2	1.5	5	< 0.1	2.0	15	33	0.5
548080	299	200	3.5	3.0	41.1	3.5	60	1.1	0.4	< 0.1	0.9	37	3	0.1	1.5	< 5	< 0.1	1.5	15	21	0.5
548081	299	200	27.5	8.5	38.8	59.5	190	4.6	3.0	0.9	3.7	20	1	1.0	3.0	25	0.4	7.0	155	1	1.4
548082	299	200	35.0	8.5	68.6	55.5	150	4.3	2.7	0.9	3.4	18	1	1.0	4.0	30	0.4	7.5	150	1	1.5
548083	299	200	69.0	13.0	87.1	53.0	165	3.9	2.5	0.9	3.6	18	1	0.8	6.0	< 5	0.4	9.0	200	2	2.0
548084	299	200	4.0	2.0	26.3	0.5	20	0.8	0.3	< 0.1	0.4	32	1	0.1	0.5	5	< 0.1	0.5	5	31	0.3
548085	299	200	8.0	1.5	57.9	0.5	15	0.3	< 0.1	< 0.1	0.3	32	< 1	< 0.1	0.5	< 5	< 0.1	0.5	25	58	0.2
548086	299	200	2.5	2.0	43.3	0.5	10	0.8	0.1	< 0.1	0.5	36	1	< 0.1	0.5	< 5	< 0.1	0.5	20	110	0.2
548087	299	200	6.5	5.0	62.3	5.5	25	2.2	0.6	< 0.1	2.2	43	5	0.3	1.5	< 5	0.1	3.0	20	106	0.7
548088	299	200	85.5	5.5	223	45.5	185	4.0	2.6	0.7	3.2	23	2	0.8	2.0	< 5	0.4	5.5	115	16	1.0

EFR-99-3

EFR-99-4

CERTIFICATION:



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Page Number :1-B  
Total Pages :2  
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## CERTIFICATE OF ANALYSIS A9917999

SAMPLE	PREP CODE		Rb	Sm	Ag	Sr	Ta	Tb	Tl	Th	Tm	Sn	W	U	V	Yb	Y	Zn	Zr
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548049	299	200	417	2.2	< 1	100.5	6.5	0.6	2.0	< 1	0.4	10	< 1	0.5	295	2.2	18.5	90	42.5
548050	299	200	866	0.7	< 1	10.2	14.0	0.4	4.0	7	0.1	21	< 1	21.0	< 5	0.9	12.0	< 5	31.5
548051	299	200	182.0	0.5	< 1	8.7	9.5	0.3	0.5	4	0.1	22	< 1	19.0	< 5	0.8	9.5	30	39.5
548052	299	200	393	1.9	< 1	87.9	3.0	0.5	2.0	1	0.3	10	< 1	2.5	280	2.0	17.5	90	42.0
548053	299	200	254	1.8	< 1	97.2	9.0	0.5	1.5	< 1	0.3	14	< 1	< 0.5	295	2.0	18.0	100	42.5
548054	299	200	196.5	0.5	< 1	22.4	23.0	0.1	0.5	1	< 0.1	16	< 1	10.5	< 5	0.5	6.0	< 5	16.0
548055	299	200	1190	1.8	< 1	63.5	4.0	0.5	7.5	< 1	0.3	69	< 1	0.5	275	1.9	16.5	100	39.0
548056	299	200	470	1.7	< 1	35.4	24.5	0.4	3.0	< 1	0.3	11	< 1	0.5	275	2.0	15.5	80	34.5
548057	299	200	807	1.0	< 1	22.3	98.0	0.3	3.0	5	< 0.1	436	< 1	14.0	< 5	0.6	6.0	30	25.5
548058	299	200	1440	1.7	< 1	68.8	12.0	0.5	10.5	< 1	0.3	45	3	0.5	275	1.9	15.5	95	35.0
99-3 548059	299	200	1490	1.7	< 1	12.9	53.5	0.3	8.0	3	< 0.1	59	< 1	4.5	25	0.4	5.5	65	9.0
548060	299	200	1615	0.8	< 1	11.7	24.0	0.2	10.0	2	< 0.1	56	< 1	4.0	< 5	0.3	4.0	155	< 0.5
548061	299	200	1710	1.2	< 1	7.5	40.5	0.2	10.5	3	< 0.1	54	< 1	6.0	< 5	0.2	4.0	85	< 0.5
548062	299	200	1305	0.7	< 1	4.7	40.5	0.1	6.0	3	< 0.1	44	< 1	14.5	< 5	0.3	3.5	75	19.0
548063	299	200	1265	0.3	< 1	1.9	36.5	0.1	7.0	3	< 0.1	35	< 1	9.5	< 5	0.2	2.5	100	25.0
548064	299	200	1470	0.7	< 1	4.0	77.0	0.3	9.0	1	< 0.1	58	< 1	6.0	< 5	0.3	4.0	165	8.5
548065	299	200	1255	0.6	< 1	10.4	47.5	0.1	8.0	2	< 0.1	34	< 1	8.0	< 5	0.4	5.5	130	3.5
548066	299	200	1120	2.0	< 1	70.0	11.0	0.6	8.5	1	0.4	31	< 1	0.5	305	2.2	18.0	90	36.5
548067	299	200	1770	0.9	< 1	7.3	33.5	0.3	11.0	3	< 0.1	55	< 1	4.5	< 5	0.4	6.5	40	< 0.5
548068	299	200	2100	1.4	< 1	9.0	31.5	0.3	12.5	4	< 0.1	88	< 1	5.0	< 5	0.3	5.0	50	< 0.5
548069	299	200	1345	1.5	< 1	12.4	43.0	0.3	7.0	5	< 0.1	67	< 1	6.5	< 5	0.4	6.0	50	7.0
548070	299	200	626	1.3	< 1	56.6	2.5	0.4	3.5	< 1	0.2	10	< 1	< 0.5	225	1.5	11.5	125	24.5
548071	299	200	210	2.1	< 1	116.5	< 0.5	0.5	1.5	< 1	0.4	< 1	< 1	< 0.5	330	2.2	18.5	100	44.0
548072	299	200	4240	1.9	< 1	49.6	13.0	0.4	29.0	1	0.1	134	< 1	2.5	315	1.3	9.5	290	44.0
548073	299	200	118.0	1.0	< 1	30.3	10.5	0.3	1.5	4	< 0.1	83	< 1	9.5	15	0.8	9.0	< 5	11.0
548074	299	200	580	2.0	< 1	98.3	5.5	0.6	3.0	< 1	0.3	37	16	1.5	315	2.2	17.5	75	41.0
548075	299	200	320	1.2	< 1	61.8	49.5	0.2	2.0	3	< 0.1	918	< 1	10.0	20	0.4	4.0	30	25.0
548076	299	200	472	2.3	< 1	95.1	3.5	0.6	3.0	< 1	0.4	54	< 1	< 0.5	330	2.3	18.0	90	42.0
548077	299	200	132.0	0.9	< 1	46.6	< 0.5	0.2	0.5	< 1	0.1	9	< 1	< 0.5	115	1.0	8.0	40	15.5
548078	299	200	1325	2.2	< 1	58.5	22.5	0.5	8.0	5	0.3	204	10	12.0	175	1.8	14.0	195	46.0
99-4 548079	299	200	406	0.8	< 1	29.4	18.0	0.3	2.0	8	< 0.1	55	< 1	18.5	15	0.7	7.5	20	41.5
548080	299	200	460	0.7	< 1	20.7	12.0	0.2	2.5	9	< 0.1	35	< 1	28.0	20	0.5	5.0	45	29.0
548081	299	200	351	2.7	< 1	107.5	0.5	0.7	2.5	1	0.5	22	< 1	< 0.5	415	2.8	22.5	160	52.5
548082	299	200	516	2.4	< 1	116.0	1.5	0.7	3.0	< 1	0.4	19	< 1	< 0.5	375	2.6	20.5	135	46.5
548083	299	200	630	2.7	< 1	129.0	4.0	0.6	3.5	< 1	0.4	33	< 1	< 0.5	330	2.3	19.5	90	50.5
548084	299	200	1330	0.4	< 1	7.0	22.5	0.1	5.0	2	< 0.1	16	< 1	9.5	< 5	0.5	5.0	50	7.5
548085	299	200	1760	0.4	< 1	2.7	34.0	< 0.1	8.5	3	< 0.1	22	< 1	6.0	< 5	0.1	0.5	95	< 0.5
548086	299	200	1470	0.6	< 1	3.0	61.5	0.1	9.5	6	< 0.1	64	< 1	19.0	< 5	0.2	3.0	90	14.5
548087	299	200	1290	2.0	< 1	10.5	117.5	0.5	7.0	7	0.1	365	< 1	28.5	30	0.9	9.5	165	44.5
548088	299	200	1790	2.1	< 1	41.7	12.5	0.6	10.5	3	0.4	95	< 1	7.0	315	2.5	20.0	130	46.0

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project: EFR-SR/99  
 Comments: ATTN: AL MOWAT

Page Number :2-A  
 Total Pages :2  
 Certificate Date: 10-JUN-1999  
 Invoice No. :19917999  
 P.O. Number :EFR-99-3  
 Account :PJV

## CERTIFICATE OF ANALYSIS A9917999

SAMPLE	PREP CODE	Ba ppm	Ce ppm	Cs ppm	Co ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Gd ppm	Ga ppm	Hf ppm	Ho ppm	La ppm	Pb ppm	Lu ppm	Nd ppm	Ni ppm	Mb ppm	Pr ppm
548089	299 200	17.5	5.0	52.7	43.5	215	2.1	1.4	0.7	1.9	14	< 1	0.5	1.5	< 5	0.3	4.0	100	5	0.9
548090	299 200	5.0	6.5	10.4	1.0	5	1.7	0.7	0.1	1.5	42	3	0.3	2.0	< 5	0.1	3.5	10	80	0.9
548091	299 200	20.0	12.0	243	31.0	50	2.6	0.9	0.1	3.8	34	1	0.4	3.5	5	0.1	7.5	95	50	1.9
548092	299 200	10.0	18.0	54.8	5.0	15	1.8	0.4	0.1	4.0	56	1	0.2	5.0	10	< 0.1	10.0	25	80	2.8
548093	299 200	95.0	6.0	108.5	48.5	205	2.9	2.0	0.7	2.4	17	< 1	0.7	2.0	< 5	0.3	5.5	150	1	1.0
99-1 548094	299 200	10.0	1.5	34.1	0.5	< 5	0.6	0.1	< 0.1	0.7	44	< 1	< 0.1	< 0.5	< 5	< 0.1	0.5	< 5	72	0.2
548095	299 200	9.0	2.5	32.6	< 0.5	< 5	1.0	0.3	< 0.1	1.0	40	< 1	0.1	0.5	< 5	< 0.1	1.5	< 5	74	0.3
548096	299 200	< 0.5	1.0	16.9	< 0.5	275	0.6	0.1	< 0.1	0.6	46	< 1	< 0.1	< 0.5	< 5	< 0.1	0.5	5	38	0.1
548097	299 200	< 0.5	5.0	27.2	< 0.5	< 5	0.8	0.2	< 0.1	0.4	36	< 1	< 0.1	< 0.5	< 5	< 0.1	< 0.5	< 5	55	0.1
548098	299 200	< 0.5	1.5	28.1	< 0.5	< 5	1.0	0.2	< 0.1	0.8	42	1	< 0.1	< 0.5	< 5	< 0.1	0.5	5	86	0.1
548099	299 200	< 0.5	0.5	37.5	< 0.5	< 5	0.4	< 0.1	< 0.1	0.3	35	< 1	< 0.1	< 0.5	< 5	< 0.1	< 0.5	< 5	63	< 0.1
548100	299 200	4.0	4.5	47.6	0.5	20	1.3	0.4	< 0.1	1.2	40	< 1	0.1	1.5	20	< 0.1	2.0	5	57	0.6
548101	299 200	9.0	5.5	62.9	12.5	65	1.6	0.6	0.1	1.9	39	< 1	0.2	2.0	< 5	0.1	3.0	35	42	0.7
548102	299 200	5.5	4.0	21.1	< 0.5	5	1.1	0.3	< 0.1	1.2	36	< 1	0.1	1.0	15	< 0.1	1.5	5	52	0.5
548103	299 200	26.5	3.5	123.0	58.5	200	2.1	1.5	0.5	1.8	13	< 1	0.5	1.0	< 5	0.2	3.5	345	1	0.7

CERTIFICATION:





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

5175 Timberlea Blvd., Mississauga  
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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

Project : EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number :2-B  
Total Pages :2  
Certificate Date: 10-JUN-1999  
Invoice No. :19917999  
P.O. Number :EFR-99-3  
Account :PJV

## CERTIFICATE OF ANALYSIS A9917999

SAMPLE	PREP		Rb	Sm	Ag	Sr	Ta	Tb	Tl	Th	Tm	Sn	W	U	V	Yb	Y	Zn	Zr
	CODE		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548089	299	200	606	1.6	< 1	62.6	3.0	0.4	2.5	< 1	0.3	18	5	< 0.5	180	1.5	11.5	125	20.0
548090	299	200	255	1.7	< 1	20.5	37.5	0.3	1.0	8	0.1	42	2	13.0	< 5	1.0	9.5	25	27.0
548091	299	200	3410	4.5	< 1	51.8	30.0	0.7	19.0	8	0.1	809	3	2.0	165	1.0	11.5	235	25.0
548092	299	200	1120	5.9	< 1	30.8	32.0	0.6	5.0	10	< 0.1	473	3	7.0	25	0.6	7.5	115	15.5
548093	299	200	1000	1.7	< 1	67.2	0.5	0.5	4.5	1	0.3	21	4	< 0.5	280	1.9	15.5	125	36.5
548094	299	200	1685	0.8	< 1	6.3	44.0	0.1	6.0	3	< 0.1	198	3	6.0	5	0.2	3.0	85	7.0
548095	299	200	1990	0.7	< 1	2.2	48.0	0.2	8.0	2	< 0.1	60	3	4.5	< 5	0.4	4.0	75	0.5
548096	299	200	1820	0.7	1	2.4	22.0	0.1	6.5	1	< 0.1	54	16	4.0	< 5	0.3	2.5	110	4.0
548097	299	200	1790	0.4	< 1	0.5	35.5	0.1	9.0	1	< 0.1	37	3	4.5	< 5	0.4	4.5	145	4.5
548098	299	200	1810	0.7	< 1	0.7	64.5	0.1	6.5	2	< 0.1	41	3	6.0	< 5	0.4	5.0	90	5.5
548099	299	200	2160	0.4	< 1	0.2	43.5	0.1	8.5	1	< 0.1	33	1	3.5	< 5	0.1	2.0	90	< 0.5
548100	299	200	2300	1.2	< 1	1.7	25.5	0.3	10.5	4	< 0.1	96	3	4.5	< 5	0.5	5.5	115	1.5
548101	299	200	2280	1.7	< 1	22.1	31.0	0.4	10.0	6	< 0.1	73	4	2.5	55	0.7	7.0	90	3.0
548102	299	200	1480	1.1	< 1	5.1	24.5	0.3	5.5	4	< 0.1	63	1	5.0	< 5	0.4	5.0	75	< 0.5
548103	299	200	1360	1.1	< 1	74.5	0.5	0.3	7.5	1	0.2	10	1	< 0.5	175	1.3	9.5	155	16.0

99-4

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

5175 Timberlea Blvd., Mississauga  
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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

A9918190

Comments: ATTN: AL MOWAT

**CERTIFICATE**

**A9918190**

(PJV) - EMERALD FIELDS RESOURCE CORP.

Project: EFR-SR/99  
P.O.#: EFR-99-5&6

Samples submitted to our lab in Thunder Bay, ON.  
This report was printed on 01-JUN-1999.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	57	Assay ring to approx 150 mesh
226	45	0-3 Kg crush and split
294	12	4-7 Kg crush and split
3202	57	Rock - save entire reject

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
356	57	Li %: HClO <sub>4</sub> -HNO <sub>3</sub> -HF digestion	AAS	0.01	100.0



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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project: EFR-SR/99  
 Comments: ATTN: AL MOWAT

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 01-JUN-1999  
 Invoice No. : I9918190  
 P.O. Number : EFR-99-5&6  
 Account : PJV

## CERTIFICATE OF ANALYSIS

## A9918190

SAMPLE	PREP CODE	Li %											
548104	208 226	0.12											
548105	208 226	0.02											
548106	208 226	0.03											
548107	208 226	0.04											
548108	208 226	0.07											
548109	208 226	0.10											
548110	208 294	0.14											
548111	208 226	0.20											
548112	208 226	0.12											
548113	208 226	0.82											
548114	208 226	0.52											
548115	208 226	0.66											
548116	208 226	1.21											
548117	208 294	0.96											
548118	208 226	0.51											
548119	208 294	0.19											
548120	208 226	0.31											
548121	208 226	0.39											
548122	208 226	0.11											
548123	208 226	< 0.01											
548124	208 226	0.07											
548125	208 294	0.05											
548126	208 294	0.08											
548127	208 226	0.16											
548128	208 294	0.03											
548129	208 226	0.05											
548130	208 226	0.08											
548131	208 226	0.03											
548132	208 226	0.02											
548133	208 226	0.05											
548134	208 226	0.03											
548135	208 226	0.01											
548136	208 226	0.05											
548137	208 226	0.02											
548138	208 226	0.08											
548139	208 294	0.01											
548140	208 226	0.20											
548141	208 226	0.01											
548142	208 226	0.04											
548143	208 294	0.15											

EFR. 99. 5

EFR99-6

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

Project : EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number : 2  
Total Pages : 2  
Certificate Date: 01-JUN-1999  
Invoice No. : 19918190  
P.O. Number : EFR-99-5&6  
Account : PJV

## CERTIFICATE OF ANALYSIS

### A9918190

EFR-99-1

SAMPLE	PREP CODE	Li %									
548144	208 294	0.08									
548145	208 294	0.20									
548146	208 226	0.33									
548147	208 226	0.12									
548148	208 226	0.14									
548149	208 294	0.06									
548150	208 226	0.02									
548151	208 294	0.31									
548152	208 226	0.14									
548153	208 226	0.04									
548154	208 226	0.09									
548155	208 226	0.05									
548156	208 226	0.09									
548157	208 226	0.01									
548158	208 226	0.01									
548159	208 226	0.04									
548160	208 226	0.02									

CERTIFICATION:



# Chemex Labs Ltd.

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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

A9918191

Comments: ATTN: AL MOWAT

**CERTIFICATE** **A9918191**

(PJV) - EMERALD FIELDS RESOURCE CORP.

Project: EFR-SR/99  
 P.O. #: EFR-99-5&6

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 11-JUN-1999.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	57	Pulp; prepped on other workorder
200	57	Whole rock fusion
297	57	Meta-borate fusion charge

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2855	57	Ba ppm: ICP-MS	ICP-MS	0.5	10000
2501	57	Ce ppm: ICP-MS	ICP-MS	0.5	10000
2858	57	Cs ppm: ICP-MS	ICP-MS	0.1	10000
2859	57	Co ppm: ICP-MS	ICP-MS	0.5	10000
2860	57	Cu ppm: ICP-MS	ICP-MS	5	10000
2502	57	Dy ppm: ICP-MS	ICP-MS	0.1	1000
2503	57	Kr ppm: ICP-MS	ICP-MS	0.1	1000
2504	57	Eu ppm: ICP-MS	ICP-MS	0.1	1000
2505	57	Gd ppm: ICP-MS	ICP-MS	0.1	1000
2861	57	Ga ppm: ICP-MS	ICP-MS	1	1000
2842	57	Hf ppm: ICP-MS	ICP-MS	1	10000
2506	57	Ho ppm: ICP-MS	ICP-MS	0.1	1000
2507	57	La ppm: ICP-MS	ICP-MS	0.5	10000
2862	57	Pb ppm: ICP-MS	ICP-MS	5	10000
2508	57	Lu ppm: ICP-MS	ICP-MS	0.1	1000
2509	57	Nd ppm: ICP-MS	ICP-MS	0.5	10000
2863	57	Ni ppm: ICP-MS	ICP-MS	5	10000
2844	57	Nb ppm: ICP-MS	ICP-MS	1	10000
2510	57	Pr ppm: ICP-MS	ICP-MS	0.1	1000
2864	57	Rb ppm: ICP-MS	ICP-MS	0.2	10000
2511	57	Sm ppm: ICP-MS	ICP-MS	0.1	1000
2865	57	Ag ppm: ICP-MS	ICP-MS	1	1000
2867	57	Sr ppm: ICP-MS	ICP-MS	0.1	10000
2868	57	Ta ppm: ICP-MS	ICP-MS	0.5	10000
2512	57	Tb ppm: ICP-MS	ICP-MS	0.1	1000
2869	57	Tl ppm: ICP-MS	ICP-MS	0.5	1000
2550	57	Th ppm: ICP-MS	ICP-MS	1	1000
2513	57	Tm ppm: ICP-MS	ICP-MS	0.1	1000
2870	57	Sn ppm: ICP-MS	ICP-MS	1	10000
2871	57	W ppm: ICP-MS	ICP-MS	1	10000
2549	57	U ppm: ICP-MS	ICP-MS	0.5	1000
2872	57	V ppm: ICP-MS	ICP-MS	5	10000
2514	57	Yb ppm: ICP-MS	ICP-MS	0.1	1000
2873	57	Y ppm: ICP-MS	ICP-MS	0.5	10000
2874	57	Zn ppm: ICP-MS	ICP-MS	5	10000
2875	57	Zr ppm: ICP-MS	ICP-MS	0.5	10000



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To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

Project : EFR-SR/99  
Comments: ATTN: AL MOWAT

Page Number : 1-A  
Total Pages : 2  
Certificate Date: 11-JUN-1999  
Invoice No. : I9918191  
P.O. Number : EFR-99-5&6  
Account : PJV

## CERTIFICATE OF ANALYSIS A9918191

SAMPLE	PREP		Ba	Ce	Cs	Co	Cu	Dy	Er	Eu	Gd	Ga	Hf	Ho	La	Pb	Lu	Nd	Ni	Nb	Pr
	CODE		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548104	299	200	22.0	8.0	93.4	52.5	120	3.4	2.2	0.8	2.5	16	1	0.6	3.0	< 5	0.4	7.0	120	< 1	1.4
548105	299	200	2.5	2.0	37.3	1.5	20	1.4	0.2	< 0.1	1.0	32	< 1	0.1	0.5	10	< 0.1	1.0	5	38	0.3
548106	299	200	3.0	2.0	27.6	2.5	< 5	1.2	0.2	< 0.1	1.1	36	< 1	0.1	0.5	5	< 0.1	0.5	5	83	0.3
548107	299	200	3.0	2.0	37.2	0.5	5	1.5	0.3	< 0.1	1.2	36	< 1	0.1	0.5	10	< 0.1	1.0	5	74	0.3
548108	299	200	2.5	1.5	32.2	0.5	5	0.5	< 0.1	< 0.1	0.4	43	< 1	< 0.1	0.5	5	< 0.1	0.5	5	49	0.2
548109	299	200	1.5	2.5	36.4	0.5	< 5	1.7	0.3	< 0.1	0.9	35	< 1	0.1	1.0	5	< 0.1	1.5	5	39	0.4
548110	299	200	0.5	3.0	22.6	< 0.5	< 5	1.7	0.2	< 0.1	1.2	39	< 1	0.1	1.0	5	< 0.1	1.5	5	57	0.5
548111	299	200	1.5	0.5	10.1	< 0.5	< 5	0.8	0.4	< 0.1	0.1	41	4	< 0.1	< 0.5	10	< 0.1	< 0.5	5	42	< 0.1
548112	299	200	< 0.5	2.0	21.8	< 0.5	< 5	0.6	0.2	< 0.1	0.8	37	< 1	< 0.1	1.0	5	< 0.1	0.5	10	56	0.3
548113	299	200	< 0.5	1.0	17.8	< 0.5	5	0.5	< 0.1	< 0.1	0.3	37	3	< 0.1	< 0.5	10	< 0.1	0.5	5	50	0.1
548114	299	200	5.0	0.5	11.0	< 0.5	< 5	0.8	0.1	< 0.1	0.2	51	3	< 0.1	0.5	10	< 0.1	< 0.5	5	52	0.2
548115	299	200	3.0	4.5	42.1	< 0.5	< 5	2.7	0.4	< 0.1	2.6	35	< 1	0.2	1.5	5	< 0.1	3.0	5	47	0.7
548116	299	200	3.5	2.0	23.2	< 0.5	< 5	1.3	0.1	< 0.1	1.0	30	< 1	0.1	< 0.5	5	< 0.1	1.0	5	39	0.3
548117	299	200	0.5	2.5	28.3	< 0.5	5	1.2	0.3	< 0.1	1.5	32	< 1	0.1	0.5	5	< 0.1	1.5	5	52	0.3
548118	299	200	< 0.5	< 0.5	10.2	< 0.5	5	0.6	0.1	< 0.1	0.1	52	5	< 0.1	< 0.5	10	< 0.1	< 0.5	5	80	< 0.1
548119	299	200	< 0.5	1.0	13.7	< 0.5	< 5	1.1	0.5	< 0.1	0.5	48	4	0.1	< 0.5	10	0.1	0.5	5	43	0.1
548120	299	200	1.5	4.0	104.5	8.0	< 5	2.2	0.4	< 0.1	2.3	81	2	0.1	1.0	5	< 0.1	2.5	40	113	0.7
548121	299	200	2.0	1.5	25.8	< 0.5	5	0.7	0.1	< 0.1	0.5	43	1	< 0.1	1.0	5	< 0.1	0.5	15	69	0.4
548122	299	200	17.5	5.0	595	54.5	120	2.4	1.7	0.6	2.1	15	1	0.6	2.0	< 5	0.3	4.0	155	3	1.0
548123	299	200	1.5	0.5	3.3	2.0	15	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	0.5	< 5	< 0.1	< 0.5	15	1	< 0.1
548124	299	200	32.0	5.5	20.3	45.5	445	2.1	1.4	0.5	1.9	14	< 1	0.5	2.0	< 5	0.2	4.0	130	< 1	0.8
548125	299	200	10.0	5.0	7.3	49.5	155	2.3	1.4	0.5	1.9	15	< 1	0.5	1.5	< 5	0.2	4.0	165	< 1	0.8
548126	299	200	30.5	5.0	27.9	48.0	180	2.3	1.4	0.6	2.1	16	< 1	0.5	1.5	< 5	0.2	4.0	150	< 1	0.7
548127	299	200	38.0	3.5	194.5	54.0	145	1.9	1.1	0.4	1.6	14	< 1	0.4	0.5	< 5	0.1	3.0	275	< 1	0.6
548128	299	200	< 0.5	3.0	37.9	0.5	< 5	0.3	< 0.1	< 0.1	0.4	29	< 1	< 0.1	1.0	5	< 0.1	0.5	< 5	15	0.3
548129	299	200	< 0.5	< 0.5	38.9	0.5	< 5	0.2	< 0.1	< 0.1	0.1	14	< 1	< 0.1	< 0.5	5	< 0.1	< 0.5	< 5	7	< 0.1
548130	299	200	< 0.5	< 0.5	76.4	2.0	< 5	0.3	< 0.1	< 0.1	0.3	24	< 1	< 0.1	< 0.5	5	< 0.1	< 0.5	30	9	< 0.1
548131	299	200	5.0	4.0	29.8	0.5	< 5	0.9	0.3	< 0.1	0.7	32	< 1	0.1	1.5	10	< 0.1	1.5	< 5	17	0.4
548132	299	200	1.5	12.5	17.4	0.5	< 5	1.6	0.4	< 0.1	2.1	40	3	0.2	4.5	15	< 0.1	5.0	< 5	62	1.6
548133	299	200	29.5	8.0	20.3	48.0	280	3.3	2.2	0.7	3.0	17	1	0.8	3.0	< 5	0.3	6.0	30	1	1.2
548134	299	200	12.5	4.0	17.8	41.5	140	2.0	1.2	0.4	1.6	18	< 1	0.4	1.5	< 5	0.2	3.5	90	3	0.6
548135	299	200	7.5	6.0	20.4	4.0	75	1.6	0.3	< 0.1	1.9	41	1	0.1	2.0	10	< 0.1	2.5	15	88	0.8
548136	299	200	23.0	4.0	49.5	49.5	85	2.0	1.2	0.4	1.7	15	< 1	0.4	1.0	< 5	0.2	3.5	205	1	0.6
548137	299	200	14.5	4.0	12.3	54.5	160	1.6	1.1	0.4	1.5	14	< 1	0.3	1.5	< 5	0.1	3.0	295	< 1	0.6
548138	299	200	33.5	5.5	28.7	48.5	145	2.4	1.7	0.6	2.3	16	< 1	0.6	2.0	< 5	0.3	4.5	135	< 1	0.8
548139	299	200	4.5	2.0	21.0	0.5	20	0.5	0.1	< 0.1	0.5	32	3	< 0.1	0.5	10	< 0.1	0.5	15	25	0.3
548140	299	200	22.0	3.5	526	28.0	40	1.5	0.8	0.2	1.5	47	1	0.3	1.0	< 5	0.1	2.5	90	40	0.5
548141	299	200	0.5	1.0	22.6	< 0.5	5	0.6	0.1	< 0.1	0.6	31	< 1	< 0.1	< 0.5	10	< 0.1	< 0.5	< 5	30	0.1
548142	299	200	< 0.5	1.0	12.2	< 0.5	10	0.6	0.1	< 0.1	0.6	37	2	< 0.1	< 0.5	5	< 0.1	< 0.5	< 5	53	0.1
548143	299	200	0.5	1.0	23.9	< 0.5	< 5	0.8	0.1	< 0.1	0.7	38	1	< 0.1	< 0.5	5	< 0.1	< 0.5	< 5	43	0.1

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: EMERALD FIELDS RESOURCE CORP. \*

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project : EFR-SR/99  
 Comments: ATTN: AL MOWAT

Page Number : 2-A  
 Total Pages : 2  
 Certificate Date: 11-JUN-1999  
 Invoice No. : 19918191  
 P.O. Number : EFR-99-5&6  
 Account : PJV

## CERTIFICATE OF ANALYSIS A9918191

SAMPLE	PREP		Ba	Ce	Cs	Co	Cu	Dy	Er	Eu	Gd	Ga	Hf	Ho	La	Pb	Lu	Nd	Ni	Nb	Pr
	CODE		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
548144	299	200	< 0.5	2.5	43.3	0.5	< 5	0.6	0.1	< 0.1	0.8	39	< 1	< 0.1	0.5	< 5	< 0.1	0.5	10	46	0.4
548145	299	200	2.0	1.5	33.1	< 0.5	< 5	0.6	0.1	< 0.1	0.6	38	< 1	< 0.1	1.0	< 5	< 0.1	0.5	< 5	59	0.3
548146	299	200	< 0.5	2.5	19.8	< 0.5	< 5	1.0	0.3	< 0.1	0.8	36	1	0.1	1.0	< 5	< 0.1	1.0	10	50	0.4
548147	299	200	4.5	3.5	33.0	0.5	5	0.8	0.1	< 0.1	1.0	45	3	0.1	1.5	< 5	< 0.1	1.5	5	106	0.5
548148	299	200	24.0	4.5	340	50.5	300	2.3	1.3	0.5	2.1	23	< 1	0.5	2.0	< 5	0.2	4.0	225	18	0.8
548149	299	200	1.0	6.0	22.9	0.5	< 5	1.2	0.3	< 0.1	1.6	42	< 1	0.1	2.5	< 5	< 0.1	2.5	5	92	0.9
548150	299	200	1.5	5.5	17.5	0.5	< 5	2.8	1.1	< 0.1	1.6	42	< 1	0.4	2.0	< 5	0.2	2.5	< 5	136	0.7
548151	299	200	19.0	9.0	113.5	52.5	135	4.8	3.0	0.9	3.8	20	1	1.0	3.5	< 5	0.5	7.5	45	5	1.5
548152	299	200	35.5	8.5	238	50.5	95	4.0	2.5	0.8	3.6	20	1	0.9	3.5	10	0.4	7.5	55	2	1.5
548153	299	200	25.0	2.5	148.0	16.0	20	1.1	0.7	0.4	0.9	41	1	0.3	1.0	< 5	0.1	2.5	20	33	0.4
548154	299	200	68.0	8.0	263	49.5	210	3.8	2.4	0.8	3.4	23	1	0.9	3.0	< 5	0.4	7.0	55	8	1.3
548155	299	200	14.5	6.5	99.0	9.0	85	2.0	0.8	0.1	2.0	48	< 1	0.3	2.5	< 5	0.1	3.0	20	92	0.9
548156	299	200	55.5	7.5	244	52.0	175	3.6	2.5	0.8	3.1	19	1	0.8	3.0	< 5	0.4	6.5	65	2	1.3
548157	299	200	37.0	4.0	9.8	44.0	125	2.1	1.3	0.5	1.6	15	< 1	0.5	1.5	< 5	0.2	3.5	140	< 1	0.7
548158	299	200	11.0	4.0	28.0	2.0	40	1.3	0.2	< 0.1	1.6	52	< 1	0.1	1.5	< 5	< 0.1	2.0	5	38	0.6
548159	299	200	44.0	4.0	118.5	56.5	65	2.2	1.5	0.5	1.9	19	< 1	0.5	1.5	15	0.2	4.0	260	3	0.8
548160	299	200	237	4.5	48.0	60.5	135	2.4	1.4	0.5	2.0	15	< 1	0.5	2.0	< 5	0.3	4.0	285	< 1	0.8

CERTIFICATION:



# Chemex Labs Ltd.

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

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
KENORA, ON  
P9N 2K2

*Cliff  
Analyses*

**INVOICE NUMBER**

**I 9 9 1 9 0 2 1**

### BILLING INFORMATION

Date: 07-JUN-1999  
Project: PJV Li BULK ASSAYS  
P.O. No.:  
Account: PJV

Comments:

Billing: For analysis performed on  
Certificate A9919021

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

Please Remit Payments to:

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

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	3290 - Ring 2000 g to approx -150 mesh A-413 XRF - Basic W.R.A.	16.79 22.50		
	356 - Li %	13.75	53.04	53.04
36	299 - Pulp; prepped on other workorder 356 - Li %	0.00 13.75	13.75	495.00
3	3290 - Ring 2000 g to approx -150 mesh 356 - Li %	16.79 13.75	30.54	91.62
1	225 - Run as received A-413 XRF - Basic W.R.A.	0.30 22.50		
	356 - Li %	13.75	36.55	36.55
		Total Cost \$		676.21
		Client Discount ( 22%) \$		<u>-148.77</u>
		Net Cost \$		527.44
		(Reg# R100938885 ) GST \$		<u>36.92</u>
		<b>TOTAL PAYABLE (CDN) \$</b>		<b>564.36</b>





# Chemex Labs Ltd.

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

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

A9919021

Comments: ATTN: AL MOWAT

**CERTIFICATE**

**A9919021**

(PJV) - EMERALD FIELDS RESOURCE CORP.

Project: PJV Li BULK ASSAYS  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 07-JUN-1999.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
3290	4	Ring 2000 g to approx -150 mesh
299	36	Pulp; prepped on other workorder
225	1	Run as received

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
356	41	Li %: HClO4-HNO3-HF digestion	AAS	0.01	100.0
902	2	Al2O3 %: XRF	XRF	0.01	100.00
906	2	CaO %: XRF	XRF	0.01	100.00
2590	2	Cr2O3 %: XRF	XRF	0.01	100.00
903	2	Fe2O3 %: XRF	XRF	0.01	100.00
908	2	K2O %: XRF	XRF	0.01	100.00
905	2	MgO %: XRF	XRF	0.01	100.00
1989	2	MnO %: XRF	XRF	0.01	100.00
907	2	Na2O %: XRF	XRF	0.01	100.00
909	2	P2O5 %: XRF	XRF	0.01	100.00
901	2	SiO2 %: XRF	XRF	0.01	100.00
904	2	TiO2 %: XRF	XRF	0.01	100.00
910	2	LOI %: XRF	XRF	0.01	100.00
2540	2	Total %	CALCULATION	0.01	105.00



# Chemex Labs Ltd.

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

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P9N 2K2

Project : PJV Li BULK ASSAYS  
 Comments: ATTN: AL MOWAT

Page Number :1  
 Total Pages :2  
 Certificate Date: 04-JUN-1999  
 Invoice No. :19919021  
 P.O. Number :  
 Account :PJV

## CERTIFICATE OF ANALYSIS A9919021

SAMPLE	PREP CODE	Li %	Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %
548010	3290 --	0.79	16.41	0.18	< 0.01	0.96	4.02	< 0.01	0.05	2.13	0.05	75.13	< 0.01	0.33	99.26
548010 DUP1	299 --	0.77	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP2	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP3	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP4	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP5	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP6	299 --	0.75	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP7	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP8	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548010 DUP9	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016	3290 --	0.77	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP1	299 --	0.76	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP2	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP3	299 --	0.77	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP4	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP5	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP6	299 --	0.69	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP7	299 --	0.80	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP8	299 --	0.79	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548016 DUP9	299 --	0.79	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017	3290 --	0.80	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP1	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP2	299 --	0.78	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP3	299 --	0.79	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP4	299 --	0.75	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP5	299 --	0.77	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP6	299 --	0.77	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP7	299 --	0.79	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP8	299 --	0.76	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548017 DUP9	299 --	0.70	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060	3290 --	0.88	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP1	299 --	0.90	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP2	299 --	0.89	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP3	299 --	0.94	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP4	299 --	0.91	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP5	299 --	0.90	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP6	299 --	0.89	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP7	299 --	0.89	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP8	299 --	0.88	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
548060 DUP9	299 --	0.89	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION

EFR/SR / DIAMOND DRILL  
HOLE # 99-9



**XRAL Laboratories**  
A Division of SGS Canada Inc.

Work Order: 059881

Date: 23/06/00

PRELIMINARY

Page 1 of 1

Element. Method. Det. Lim. Units.	Li AA90 10 ppm	Ta XRF7 5 ppm	Nb XRF7 2 ppm	Sn XRF7 5 ppm	Rb XRF7 2 ppm	Cs XRF7 5 ppm
548201	656	37	85	97	2430	43
548202	5730	29	81	98	2700	54
548203	5470	30	73	67	2540	22
548204	4430	44	88	83	3170	21
548205	5970	44	84	207	2220	41
548206	5150	57	69	244	1530	45
548207	6240	36	86	70	4700	70
548208	7460	65	87	179	2960	33
548209	4310	33	85	78	3590	68
548210	7470	28	56	42	2540	55
548211	5170	35	51	67	1130	23
548212	8170	18	45	72	2570	38
548213	613	20	56	156	3690	48
548214	174	11	34	75	2500	<5
*1 Dup 548201	644	38	86	95	2420	43
*Dup 548213	620	20	57	155	3680	50

Prep. 7.40  
XRF 17.40  
AA90 4.20  
-----  
29.00 / Sample x 14 = 406



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-824-2808 FAX: 905-824-8103

To: EMERALD FIELDS RESOURCE CORP.

1546 PINE PORTAGE CORP.  
 KENORA, ON  
 P0N 2K2

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 22-NOV-99  
 Invoice No. : 10633303  
 P.O. Number :  
 Account : PJV

Project : SEPARATION 00  
 Comments: ATTN: ALASDAIR MOWAT CC: ROD SAMUELS

## CERTIFICATE OF ANALYSIS

A9933303

SAMPLE	PREP CODE	Li %											
N558135	200 226	1.26											
N558136	200 226	0.88											
N558137	200 226	0.40											
N558138	200 226	0.80											
N558139	200 226	0.27											
N558140	200 226	0.32											
N558141	200 226	0.69											
N558142	200 226	0.41											
N558144	200 226	0.47											
N558145	200 226	0.20											
N558146	200 226	0.69											
N558147	200 226	0.63											
N558148	200 226	0.82											
N558149	200 226	0.56											
N558151	200 226	0.46											
N558152	200 226	0.91											
N558153	200 226	0.54											
N558154	200 226	0.38											
N558155	200 226	0.26											
N558156	200 226	0.02											
<p>DDH. 98-3 - assayed Nov./99.</p> <p>20x 18.75 = 375<sup>00</sup></p>													

## APPENDIX NO.4



W. J. BOWMAN LTD.

LAND SURVEYORS

TELEPHONE: 807-223-5974

434 Government Street

Dryden, Ontario

Address Mail To: P.O. Box 784

P8N 2Z4

Name

Emerald Fields Resource Corporation  
1546 Pine Portage Road  
KENORA, Ontario  
P9N 2K2

Invoice No.

E3931

Reference

Our Plan D10-1326

Date

9 September 1999

Amount

\$20,330.00

**COPY**

**FEES:**

For Field Survey and Preparation of Reference Plan of CLM 428 Comprising Mining Claims K1149784, K1149785, K1149786 and K1178427 Paterson Lake Area, District of Kenora

Total Services.. .. .	\$19,000.00
Disbursements Trucks, Mileage, Groceries etc. . . . .	618.00
G.S.T. at 7% (G.S.T. Registration # R 105719165) . . . . .	1,373.26
<b>TOTAL ACCOUNT OWING</b> . . . . .	<b><u>\$20,099.26</u></b>

**PAID**  
*A. Bowman*  
 .....

**TERMS: NET 15 DAYS**

**24% PER ANNUM INTEREST CHARGED ON OVERDUE ACCOUNTS**





Date: 2001-JUL-16

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

EMERALD FIELDS RESOURCE CORPORATION  
1546 PINE PORTAGE RD.,  
KENORA, ONTARIO  
P9N 2K2 CANADA

Tel: (888) 415-9845  
Fax: (877) 670-1555

**Submission Number:** 2.20886  
**Transaction Number(s):** W0110.00020

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

The 45 days outlined in the Notice dated May 10, 2001 have passed. Only the cost associated with the work performed by Corning Incorporated is currently eligible for assessment work credit. The work performed by International Metallurgical may be reported at a later date if accompanied by the appropriate technical data.

The assessment credit is being reduced by \$40,680.00. The TOTAL VALUE of assessment credit that will be allowed, based on the information provided in this submission, is \$8,403.00.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by phone at (705) 670-5856.

Yours Sincerely,



Ron Gashinski  
Supervisor, Geoscience Assessment Office

**Cc:** Resident Geologist

Alasdair James Mowat  
(Agent)

Emerald Fields Resource Corporation  
(Assessment Office)

Assessment File Library

Emerald Fields Resource Corporation  
(Claim Holder)



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 66(2) and 66(3), R.S.O. 1990

Transaction Number (office use) L.J. 0110, 0002/1 Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0210. - Please type or print in ink.

Received Copy DUPLICATE

1. Recorded holder(s) (Attach a list if necessary)

Name: EMERALD FIELDS RESOURCE CORPORATION, Address: 1546 PINE PORTAGE ROAD, KENORA, ONTARIO P9N 2K2, Client Number: 2-20886, Telephone Number: (807) 468-7374, Fax Number: (807) 468-9792

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) [checked], Physical: drilling stripping, trenching and associated assays, Rehabilitation, Work Type: DIAMOND DRILLING 1998 & 1999, Office Use, Commodity, Total \$ Value of Work Claimed: 102,404, Dates Work Performed: 01/01/98 to 03/31/99, Mining Division: Kenora, Resident Geologist District: Kenora

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

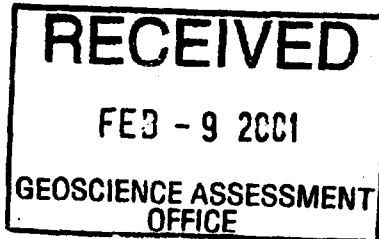
3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: TONY PRYSIAK, Address: 15 HUNTERSPOINT RD., WINNIPEG, MAN. T2T 3C4, Telephone Number: (204) 895-8685, Fax Number: (204) 895-4451

4. Certification by Recorded Holder or Agent

I, ALASDAIR J. M. HOWAT, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: [Signature], Date: FEB. 09, 2001, Agent's Address: 1546 PINE PORTAGE RD., KENORA, ONT. P9N 2K2, Telephone Number: (807) 468-7374, Fax Number: (807) 468-9792



FEB 09 '01 15:32

807 468 9792 PAGE.03



807 468 9792 PAGE.01

4. Certification by Recorded Holder or Agent

I, ALASDAIR J. M. HOWAT, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: [Signature], Date: FEB. 06/01, Agent's Address: 1546 PINE PORTAGE RD, KENORA, ONT. P9N 2K2, Telephone Number: (807) 468-7374, Fax Number: (807) 468-9792

#3253

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W-0110-00021

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg TB 7827	16 ha	\$25,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000		
eg 1234568	2	\$ 8,892	\$ 4,000		
6.1000224 (1178427 & 1143578) CLM 428	LEASED	102,404	0	26,000	6,404
2 1233573	16	0	6,400	0	0
3 1233574	16	0	6,400	0	0
4 1233575	16	0	6,400	0	0
5 1233576	16	0	6,400	0	0
6 1233577	16	0	6,400	0	0
7 1233578	16	0	6,400	0	0
8 1233579	16	0	6,400	0	0
9 1233580	16	0	6,400	0	0
10 1233581	16	0	6,400	0	0
11 1233582	16	0	6,400	0	0
12 1233583	16	0	6,400	0	0
13 1233584	16	0	6,400	0	0
14 1233598	8	0	3,200	0	0
15 1233597	19	0	5,600	0	0
Column Totals	(CONTINUED)				

REVERSED COPY  
DUPLICATE

I, ALASDAIR J. M. HOWAT (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: FEB. 09, 2001

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

**RECEIVED**  
FEB - 9 2001  
GEOSCIENCE ASSESSMENT OFFICE

FEB 09 '01 15:33

807 468 9792

FEB 09 '01 15:31  
GEOSCIENCE ASSESSMENT OFFICE

807 468 9792

PAGE: 01

4. Certification by Recorded Holder or Agent

I, ALASDAIR J. M. HOWAT (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Date
Agent's Address UP EMERALD FIELDS RESOURCE CORP - 1546 PINE PORTAGE RD, KENORA ONT. PSN 2K2	Telephone Number (807) 468-7374
	Fax Number (807) 468-9792

DECLARATION OF ASSESSMENT WORK PERFORMED

DUPLICATE

W-0110 00021

(CONTINUED)

MINING CLAIM No.	No. OF CLAIM UNITS	VALUE OF WORK PERFORMED	VALUE OF FLOOR APPLIED	VALUE ASSIGNED	BANK
16	1233596	0	6,400	0	0
17	1233614	0	800	0	0
18	1233594	0	3,200	0	0
		\$ 102,404.00	\$ 96,000	\$ 96,000	\$ 6,404

*[Signature]*  
FEB. 03 / 01

2.20886

**RECEIVED**  
FEB - 9 2001  
GEOSCIENCE ASSESSMENT OFFICE

FEB 09 '01 16:02

807 468 9792

PAGE. 01

0212 (00/01)

Nota: Dans cette formule, lorsqu'il s'agit des personnes, le masculin est utilisé au sens neutre.

**GEOSCIENCE ASSESSMENT OFFICE**

FEB 09 '01 15:31

807 468 9792

PAGE. 01

4. Certification by Recorded Holder or Agent

I, ALASDAIR J.M. MOWAT (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date
		FEB. 06 / 01
Agent's Address	Telephone Number	Fax Number
1540 PINE PORTAGE RD, KENORA ONT. P9N 2K2	(807) 468-7374	(807) 468-9792

**DUPLICATE** Revised Copy

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 150 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7254.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adressez toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 150, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7254.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaire	Labour Main-d'oeuvre	4700.00	
	Field Supervision Supervision sur le terrain	3150.00	7850.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-consultant	Type		
Supplies Used Fournitures utilisées	Type		
	fuel	1500.00	
Equipment Rental Location de matériel	Type		
<b>Total Direct Costs</b> Total des coûts directs			

2. Indirect Costs/Coûts indirects

\*\* Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
	Truck property	1575.00	
			1575.00
Food and Lodging Nourriture et hébergement	Type		
	2 men, 31 days @ 80/day	2260.00	1260.00
Mobilization and Demobilization Mobilisation et démobiliation	Type		
<b>Sub Total of Indirect Costs</b> Total partiel des coûts indirects			2260.00
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'exécédent pas 20 % des coûts directs)			452.00
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			7850.00

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
10,620.00	x 0.50 = \$ 5310.00

Remise pour dépôt

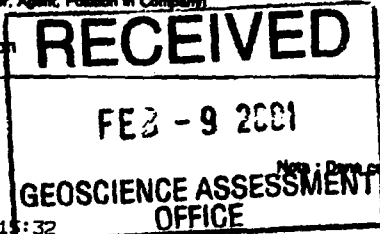
- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as AGENT & PRESIDENT (Recorded Holder, Agent, Position in Company) I am authorized to make this certification



0212 (04/97)  
FEB 09 '01 15:32

Attestation de l'état des coûts

J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation  
Signature: [Signature] Date: FEB.06/01

Note: Dans cette formule, lorsqu'il s'agit de personnes, le masculin est utilisé au sens neutre.

807 468 9792 PAGE. 02

0212 (04/97)



FEB 09 '01 15:31

Note: Dans cette formule, lorsqu'il s'agit de personnes, le masculin est utilisé au sens neutre.

807 468 9792 PAGE. 01

4. Certification by Recorded Holder or Agent

I, ALASDAIR J.M. HOWAT (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Date
Agent's Address CP EMERALD FIELDS RESOURCE CORP - 1546 PINE PORTAGE RD, KENORA ONT. P9N 2K2	Telephone Number (807) 468-7374 Fax Number (807) 468-9792



Ministry of  
Northern Development  
and Mines  
Ontario  
Ministère du  
Développement du Nord  
et des mines

Statement of Costs  
for Assessment Credit

État des coûts aux fins  
du crédit d'évaluation

Transaction No./N° de transaction  
W0110-00021

2.2088

Mining Act/Loi sur les mines

DUPLICATE

Revised Copy

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 158 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 158, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	\$250.00	
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- consultant	Type A. P. Rydzak Geol.	5950.00	
	Kennecott Soil Sampling	75.156	
	Chemical Assays	8853.00	
			89.459
Supplies Used Fournitures utilisées	Type Core Rods	1497.00	
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			96.156

2. Indirect Costs/Coûts indirects

\*\* Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement	A. P. Rydzak	938.00	
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			938.00
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'exceedant pas 20 % des coûts directs)			19.231
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			115.387
Value total du crédit d'évaluation (Total des coûts directs et indirects admissibles)			97.094

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

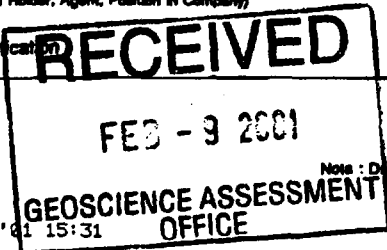
Valeur totale du crédit d'évaluation	Évaluation totale demandée
x 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as AGENT & PRESIDENT am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification



Attestation de l'état des coûts

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(Titulaire enregistré, représentant, poste occupé dans la compagnie)

À faire cette attestation

Signature	Date
	FEB. 06/01

0212 (04/01)

Note: Dans cette formule, lorsqu'il s'agit de personnes, le masculin est utilisé au sens neutre.

FEB 09 '01 15:31

807 468 9792

PAGE 01

4. Certification by Recorded Holder or Agent

I, ALASDAIR J.M. MCWAT, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Date
	FEB. 06/01
Agent's Address CO EMERALD FIELDS RESOURCE CORP - 1546 PINE PORTAGE RD, KENORA ONT. PSN 2K2	Telephone Number (807) 468-7374
	Fax Number (807) 468-9792

February 27, 2001

r. Alasdair J.M. Mowat  
EMERALD FIELDS RESOURCE CORPORATION  
1546 PINE PORTAGE RD.,  
KENORA, ONTARIO  
P9N-2K2

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9845  
Fax: (877) 670-1555

Dear Sir or Madam:

**Submission Number: 2.20886**

**Status**

**Subject: Transaction Number(s):** W0110.00021 Approval

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact LUCILLE JEROME by e-mail at [lucille.jerome@ndm.gov.on.ca](mailto:lucille.jerome@ndm.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,



ORIGINAL SIGNED BY  
Lucille Jerome  
Acting Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

---

**Submission Number:** 2.20886

**Date Correspondence Sent:** February 27, 2001

**Assessor:** LUCILLE JEROME

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W0110.00021	1000224	PATTERSON, UMFREVILLE LAKE	Approval	February 20, 2001

**Section:**  
16 Drilling PDRILL

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

**Correspondence to:**

Resident Geologist  
Kenora, ON

**Recorded Holder(s) and/or Agent(s):**

r. Alasdair J.M. Mowat  
EMERALD FIELDS RESOURCE CORPORATION  
KENORA, ONTARIO

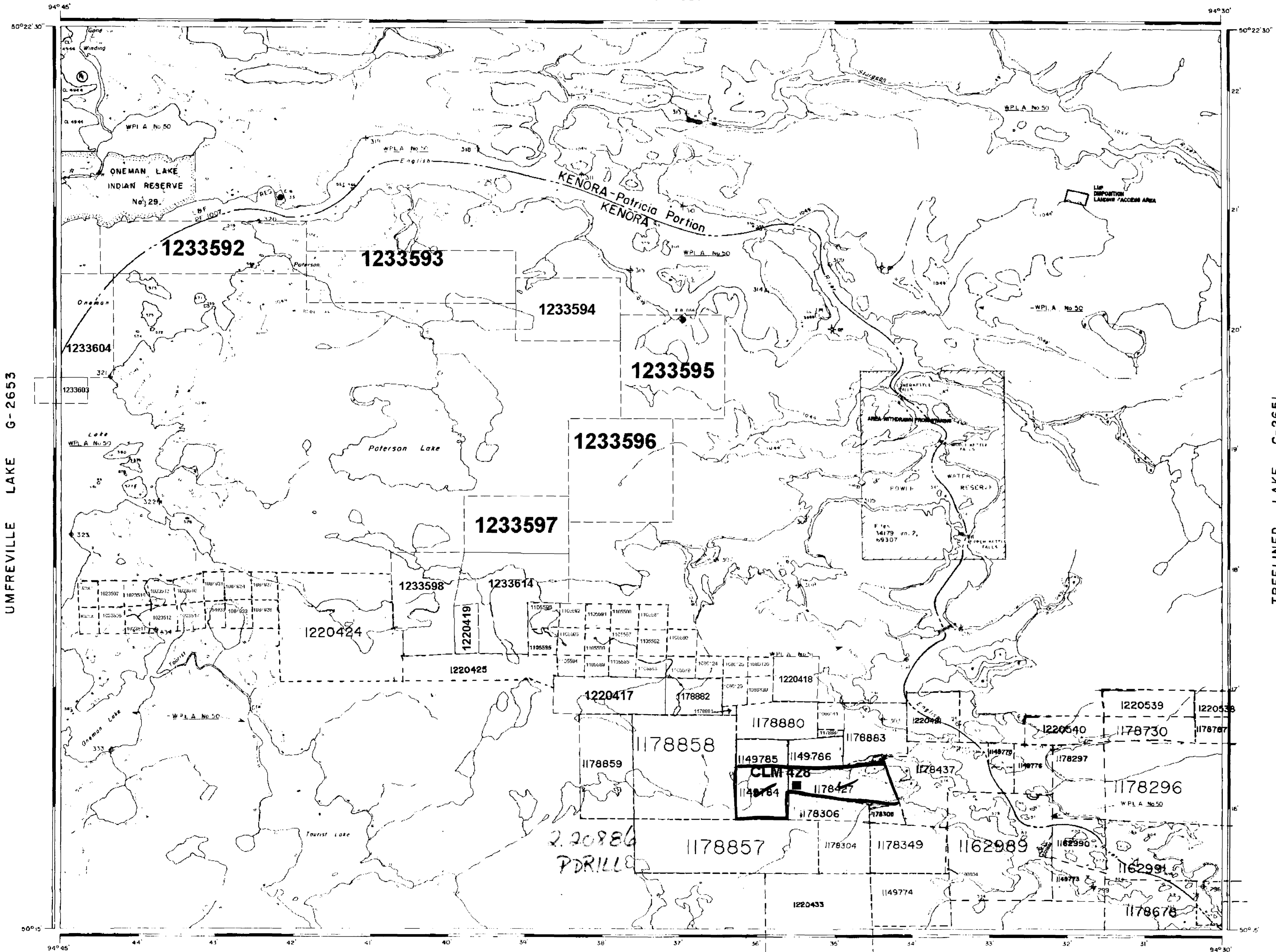
Assessment Files Library  
Sudbury, ON

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REX LAKE G-2637



UMFREVILLE LAKE G-2653

TREELINED LAKE G-2651

SNOOK LAKE G-2644

LEGEND

- HIGHWAY AND ROUTE No. [Symbol]
- OTHER ROADS [Symbol]
- TRAILS [Symbol]
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC. [Symbol]
  - LOTS, MINING CLAIMS, PARCELS, ETC. [Symbol]
- UNSURVEYED LINES
  - LOT LINES [Symbol]
  - PARCEL BOUNDARY [Symbol]
  - MINING CLAIMS, ETC. [Symbol]
- RAILWAY AND RIGHT OF WAY [Symbol]
- UTILITY LINES [Symbol]
- NON PERENNIAL STREAM [Symbol]
- FLOODING OR FLOODING RIGHTS [Symbol]
- SUBDIVISION OR COMPOSITE PLAN [Symbol]
- RESERVATIONS
  - ORIGINAL SHORE LINE [Symbol]
  - MARSH OR MUSKET [Symbol]
  - MINES [Symbol]
  - TRAVERSE MONUMENT [Symbol]

LEGEND

TOWNSHIP CORNER OF (107' FOOT)

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	■
MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	○
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 9 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 82 SUBSECTION 1

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.S. - MINING AND SURFACE RIGHTS				

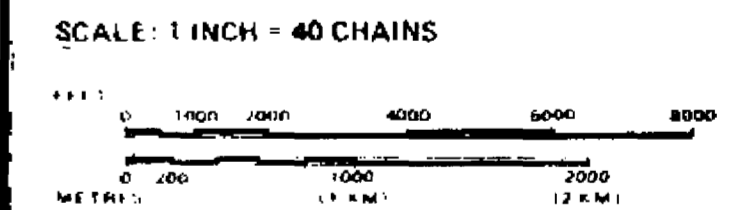
See Files 34179- (vol. 2) and 1-307

UPDATES

**FLOODING**

MINING RIGHTS AND LANDS UNDER THE WATERS OF THE FREDERICK RIVER BETWEEN SEPARATION RAPIDS AND PATERSON LAKE, INCLUDING SEPARATION LAKE, PATERSON LAKE, FREDERICK RIVER, WINDING CREEK, PATERSON CREEK, AND TOURIST CREEK, ARE WITHDRAWN FROM DISPOSITION FOR THE PURPOSES OF THE PROVISIONS OF THE MINING ACT, R.S.O. 1970, CHAP. 380, SEC. 82 SUBSECTION 1, IN RELATION TO THE PATENTING OF MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 9 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 82 SUBSECTION 1.

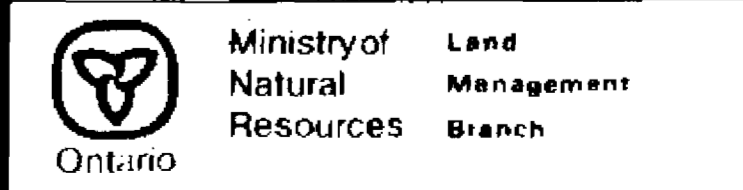
Flooding rights to contour elevation shown thus: [Symbol] Mining claims staked in the vicinity, subject to flooding. See Files 34179- (vol. 2) and 1-307.



AREA  
**PATERSON LAKE**  
M.N.R. ADMINISTRATIVE DISTRICT  
**KENORA**  
MINING DIVISION  
**KENORA**  
LAND TITLES / REGISTRY DIVISION  
**KENORA / KENORA (PATRICIA PORTION)**

DATE PUT IN SERVICE  
JUL 19 1996  
KENORA  
MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

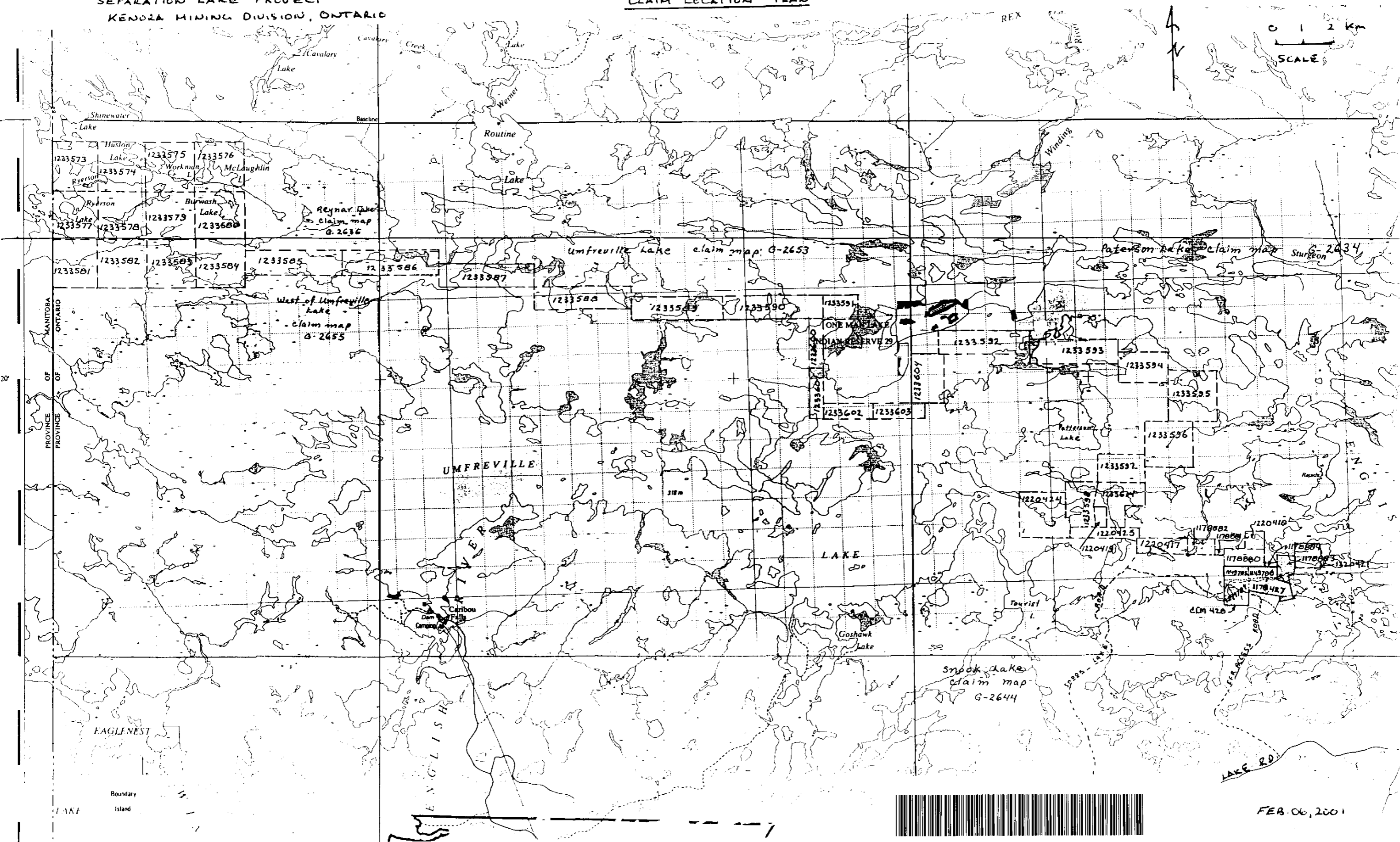


DATE: FEBRUARY, 1984  
Map No: **G-2634**  
M-2531



EMERALD FIELDS RESOURCE CORPORATION  
SEPARATION LAKE PROJECT  
KENDRA MINING DIVISION, ONTARIO

CLAIM LOCATION PLAN



52L075E2007 2.20886 PATERSON LAKE 220

FEB. 06, 2001