

**MINERAL ENVIRONMENTS LABORATORIES**

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

824723

Algo Option  
1989  
082M/4W

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1259-RG2

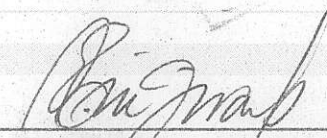
Company: MINNOVA INC.  
Project: ALGO 239  
Attn: K.CURTIS/I.PIRIE

Date: OCT-10-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Geochemical Analysis of 6 ROCK samples submitted OCT-03-89 by STEVEN FRASER.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCD21744	53	84	1665	0.9	2
BCD21750	20	80	88	1.5	4
BCD21756	231	1510	3050	2.4	13
BCD21757	50	2650	5140	2.2	4
BCD21759	23	765	2230	1.2	1
BCD21760	5	19	25	1.9	1

**RECEIVED**  
OCT 17 1989  
Ans'd .....

Certified by 

MIN-EN LABORATORIES



**MIN-EN LABORATORIES**

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Assay Certificate

9V-1259-RA1

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: K.CURTIS/I.PIRIE

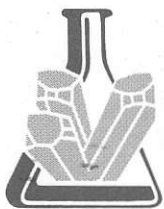
Date: OCT-06-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 5 ROCK samples submitted OCT-03-89 by STEVEN FRASER.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD21751	.008	.08	.06	1.5	.04	.01	.001
BCD21752	.003	.02	.21	0.3	.01	.02	.001
BCD21753	.004	.01	.02	0.8	.02	.01	.001
BCD21754	.001	.01	.01	1.2	.04	.01	.001
BCD21755	.001	.01	.01	0.2	.01	.01	.001

RECEIVED  
OCT 17 1989  
Ans'd .....

Certified by *Steven Fraser*  
MIN-EN LABORATORIES



# MIN-EN LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

## Assay Certificate

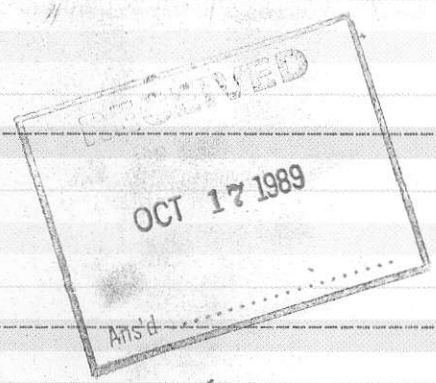
9V-1259-RA2

Company: MINNOVA INC.  
Project: ALGD 239  
Attn: K.CURTIS/I.PIRIE

Date: OCT-13-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 17 ROCK samples submitted OCT-03-89 by STEVEN FRASER.

Sample Number	LOI %
BCD21739	5.80
BCD21740	6.70
BCD21741	9.60
BCD21742	7.70
BCD21743	9.90
BCD21745	8.10
BCD21746	9.30
BCD21747	12.50
BCD21748	11.10
BCD21749	11.00
BCD21758	5.25
BCD21761	7.90
BCD21762	8.00
BCD21763	5.20
BCD21764	7.40
BCD21765	7.70
BCD21766	5.50

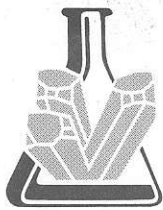


Certified by *Steven Fraser*

MIN-EN LABORATORIES







**MINERAL ENVIRONMENTS LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Assay Certificate

9V-1235-RA1

Company: MINNOVA INC.  
Project: ALGD 239  
Attn: I. PIRIE/K. CURTIS

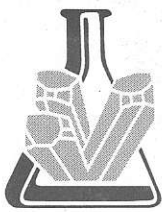
Date: OCT-05-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 2 ROCK samples submitted SEP-28-89 by S. FRASER.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD21712	.002	.20	.96	1.2	.04	.01	.001
BCD21721	.014	.06	.13	2.0	.06	.01	.001

**RECEIVED**  
**OCT 12 1989**  
Ans'd .....

Certified by *[Signature]*  
MIN-EN LABORATORIES



**MINERAL  
ENVIROMENTS  
LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1235-RG2

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: I.PIRIE/K.CURTIS

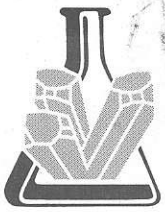
Date: OCT-03-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

*We hereby certify* the following Geochemical Analysis of 15 ROCK samples submitted SEP-28-89 by S.FRASER.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCD21708	2	14	18	0.5	2
BCD21711	3	17	33	0.6	5
BCD21713	44	695	2135	1.6	2
BCD21714	49	154	5155	0.7	1
BCD21716	29	114	211	0.5	1
BCD21717	18	243	441	0.6	2
BCD21718	33	72	218	0.6	5
BCD21719	17	310	745	1.3	6
BCD21720	14	117	230	0.7	4
BCD21722	46	1380	2905	1.7	15
BCD21723	38	940	1730	1.2	3
BCD21725	11	84	157	0.6	2
BCD21726	27	147	196	0.8	6
BCD21732	146	1050	4205	0.9	2
BCD21734	54	335	1575	1.8	2

**RECEIVED**  
**OCT 12 1989**  
Ans'd .....

Certified by *[Signature]*  
MIN-EN LABORATORIES



**MINERAL ENVIRONMENTS LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Assay Certificate

9V-1235-RA2

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: I. PIRIE/K. CURTIS

Date: OCT-05-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

*We hereby certify the following Assay of 19 ROCK samples submitted SEP-28-89 by S. FRASER.*

Sample Number	LOI %
BCD21702	5.90
BCD21703	3.35
BCD21704	6.00
BCD21705	4.00
BCD21706	4.80
BCD21707	9.90
BCD21709	6.00
BCD21710	4.00
BCD21715	5.25
BCD21724	4.30
BCD21727	6.20
BCD21728	8.50
BCD21729	11.90
BCD21730	8.20
BCD21731	13.60
BCD21733	8.80
BCD21735	11.30
BCD21736	9.10
BCD21737	10.50

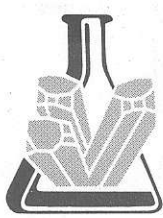
**RECEIVED**  
**OCT 12 1989**  
Ans'd .....

Certified by *[Signature]*  
MIN-EN LABORATORIES









**MIN-EN LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Assay Certificate

9V-1224-RA1

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: I. PIRIE/K. CURTIS

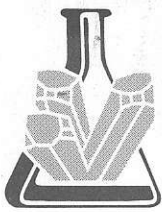
Date: OCT-03-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 4 ROCK samples submitted SEP-28-89 by STEVEN FRASER.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD21667	.075	.40	1.33	5.9	.17	.21	.006
BCD21669	.005	.09	.26	1.7	.06	.03	.001
BCD21687	.058	.11	.18	23.8	.69	.26	.008
BCD21688	.011	.06	.14	1.4	.04	.04	.001

**RECEIVED**  
**OCT 12 1989**  
Ans'd .....

Certified by *Steven Fraser*  
MIN-EN LABORATORIES



**MINERAL ENVIRONMENTS  
LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Assay Certificate

9V-1224-RA2

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: I. PIRIE/K. CURTIS

Date: OCT-05-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

*We hereby certify* the following Assay of 23 ROCK samples submitted SEP-28-89 by STEVEN FRASER.

Sample Number	LDI %
BCD21651	7.20
BCD21652	7.30
BCD21653	10.30
BCD21654	9.30
BCD21655	10.10
BCD21656	9.30
BCD21657	7.00
BCD21658	3.60
BCD21659	13.00
BCD21660	5.20
BCD21666	3.60
BCD21679	5.65
BCD21680	11.70
BCD21684	11.60
BCD21689	7.25
BCD21690	11.10
BCD21691	6.70
BCD21692	9.40
BCD21693	11.50
BCD21694	8.10
BCD21698	8.80
BCD21700	7.40
BCD21701	8.30

**RECEIVED**  
**OCT 12 1989**  
Ans'd .....

Certified by *Steven Fraser*  
MIN-EN LABORATORIES



**MINERAL  
• EN  
LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

***Geochemical Analysis Certificate***

9V-1224-RG2

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: I. PIRIE/K. CURTIS

Date: OCT-03-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

*We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted SEP-28-89 by STEVEN FRASER.*

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCD21661	14	23	41	0.7	1
BCD21662	11	10	28	0.6	2
BCD21663	13	11	27	0.3	1
BCD21664	11	7	17	0.4	9
BCD21665	12	8	13	0.2	10
BCD21668	14	340	455	2.4	29
BCD21670	11	855	1450	8.1	42
BCD21671	6	715	2210	5.0	22
BCD21672	8	805	1125	1.1	24
BCD21673	98	535	647	1.2	16
BCD21674	286	590	1240	0.8	11
BCD21675	154	235	447	1.1	22
BCD21676	87	655	1545	1.3	15
BCD21677	62	44	128	0.5	18
BCD21678	21	137	346	1.0	19
BCD21681	29	171	1060	0.8	11
BCD21682	58	215	947	1.1	15
BCD21683	73	146	2345	0.9	11
BCD21685	76	73	635	0.9	14
BCD21686	53	87	335	1.0	9
BCD21695	20	30	120	0.7	13
BCD21696	85	32	74	1.0	27
BCD21697	27	13	42	0.5	1
BCD21699	86	38	70	1.2	11

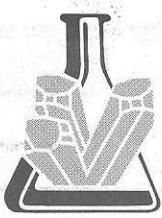
**RECEIVED**  
OCT 12 1989  
Ans'd .....

Certified by

MIN-EN LABORATORIES







**MINERAL ENVIRONMENTAL  
LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Assay Certificate

9V-1207-PA1

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: I. PIRIE/K. CURTIS

Date: OCT-03-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 1 ROCK samples  
submitted SEP-25-89 by K. CURTIS.

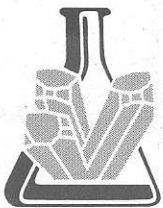
Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD21738 SPLIT B	.014	.80	3.67	12.6	.37	.09	.003

**RECEIVED**  
**OCT 13 1989**  
Ans'd .....

Certified by *[Signature]*

MIN-EN LABORATORIES





**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Assay Certificate

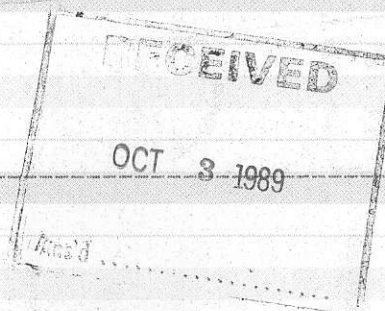
9V-1207-RA1

Company: MINNOVA INC.  
Project: ALGO 239  
Attn: I. PIRIE/K. CURTIS

Date: SEP-26-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.  
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 1 ROCK samples  
submitted SEP-25-89 by K. CURTIS.

Sample Number	CU %	FB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD21738	.043	.87	3.83	12.1	.35	.21	.006



Certified by

*[Handwritten Signature]*

MIN-EN LABORATORIES



**MINERAL  
• ENVIRONMENTAL  
LABORATORIES LTD.**

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

*Jan*  
N15  
Five  
Algo  
82n/lew

Analytical Report

Company: MINNOVA INC.  
Project: ALGD (OK)  
Attention: K. CURTIS

File: 8-1744R  
Date: JAN 10/89  
Type: ROCK GEOCHEM

Date Samples Received : JAN 3/89  
Samples Submitted by : K. CURTIS

Report on ..... 6 PULPS ..... Geochem Samples  
..... Assay Samples

Copies sent to:

1. MINNOVA INC., VANCOUVER, B.C.
- 2.
- 3.

Samples: Sieved to mesh ..... Ground to mesh .....

Prepared samples stored: ..... X ..... discarded: .....  
rejects stored: ..... discarded: .....

Methods of analysis:

MAJOR OXIDES.

Remarks

**RECEIVED**  
  
JAN 12 1989  
  
Ans'd .....

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 1

PROJECT NO: AL60(OK)

71 3ST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1744R

ATTENTION: K.CURTIS

(604)980-5814 OR (604)988-4524

\* TYPE PULP GEOCHEM \*

DATE: JANUARY 10, 1989

( % ) DKCT1043 DKCT1044 DKCT1045 DKCT1046 DKCT1047 DKCT1048

AL203	13.55	15.24	14.92	14.81	14.98	8.44
BA	.057	.079	.092	.085	.083	.038
CA0	.23	.15	.14	.01	.05	.27
FE203	6.36	6.05	5.33	6.25	6.62	5.31
K20	2.83	3.29	3.34	3.20	3.27	1.24

MGO	1.65	1.85	1.40	1.83	2.45	1.74
MNO2	.05	.07	.01	.01	.01	.01
NA20	.33	.22	.10	.09	.20	.68
P205	.21	.20	.25	.21	.21	.23
SI02	69.07	67.88	70.54	69.38	67.39	77.24

SR	.01	.01	.01	.01	.01	.01
TI02	1.11	.99	.88	.92	1.12	.96
ZR	.009	.005	.005	.008	.010	.005
S	.23	.19	.03	.05	.02	.26
TOT(%)	95.69	96.21	97.04	96.86	96.41	96.44

**RECEIVED**

**JAN 12 1989**

Ans'd .....