



MINERAL ENVIRONMENTS
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LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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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

Certificate of GEOCHEM

Company: MINNOVA INC.
 Project: VIC #341
 Attention: I. D. PIRIE/G. SHARP

File: 9-1103/P1
 Date: AUGUST 5/88
 Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-WET PPM
VCT3007	34	16	25	6.5	10

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 AUG 12 1988
 Ans'd

Certified by *[Signature]*
 MIN-EN LABORATORIES LTD.

COMPANY: MINNOVA INC
PROJECT NO: VIC 341
ATTENTION: I. PIRIE/SHARP

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT: F31) PAGE 1 OF 1
FILE NO: 8-1103/P1
DATE: AUGUST 8, 1988

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
VCL3001	2.3	1	34	26	13	6	49	5
VCL3002	.4	28	31	23	4	1	70	5
VCL3003	.8	22	32	22	12	1	75	5
VCL3004	1.1	1	49	32	15	2	67	10
VCL3005	3.8	20	44	120	16	6	42	40
VCL3006	.3	19	51	64	9	1	57	5
VCL3008	1.6	1	27	66	8	3	63	5



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Ans'd

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 2

PROJECT NO: VIC 341

705WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1103/P2

ATTENTION: I.PIRIE/G.SHARP

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

* TYPE ROCK GEOCHEM *

DATE: AUGUST 8, 1988

(VALUES IN %)	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SiO2	SR	TIO2
VCL3001	16.18	.013	6.75	10.00	.22	4.40	4.04	3.29	.20	44.65	.10	1.34
VCL3002	15.58	.013	3.09	14.19	.23	8.55	6.59	2.92	.23	37.62	.02	2.23
VCL3003	14.69	.007	3.31	14.99	.13	7.19	6.60	3.11	.24	37.81	.02	2.60
VCL3004	16.12	.020	4.53	12.33	.32	6.20	6.37	3.12	.18	40.85	.05	1.73
VCL3005	14.49	.018	8.43	12.23	.30	6.28	4.54	2.36	.23	40.67	.08	2.20
VCL3006	16.69	.019	8.62	12.80	.50	6.02	6.35	2.08	.17	36.61	.03	.93
VCL3008	15.45	.018	4.74	13.86	.51	5.03	5.64	2.68	.20	41.81	.03	2.20

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 2 OF 2

PROJECT NO: VIC 341

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7H 1T2

FILE NO: B-1103/P2

ATTENTION: I. PIRIE/G. SHARP

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

* TYPE ROCK GEOCHEM *

DATE: AUGUST 8, 1988

(VALUES IN %)	ZR	S	TOT(%)
VCL3001	.005	.47	91.66
VCL3002	.005	.21	91.48
VCL3003	.007	.28	90.98
VCL3004	.008	.39	92.22
VCL3005	.007	.46	92.29
VCL3006	.005	.24	91.07
VCL3008	.008	.19	92.35

(VALUES IN PPB)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD16001	2.3	42	62	15	12	7	40	5
BCD16002	2.3	41	73	18	18	7	54	5
BCD16003	2.1	32	47	162	24	8	55	5
BCD16004	2.6	50	73	46	29	6	1444	10
BCD16005	1.1	14	53	13	17	2	135	5
BCD16006	.5	29	41	388	49	1	1144	5
BCD16007	.6	6	33	954	10	1	113	5
BCD16008	.4	38	35	29	9	1	138	5
BCD16009	1.1	1	26	155	19	5	88	5
BCD16010	1.8	24	33	4539	21	1	128	10
BCD16011	2.3	18	51	1183	26	1	5739	5
BCD16012	2.2	23	51	1943	21	1	126	5
BCD16013	2.6	39	43	85	80	6	206	5
BCD16014	1.5	20	49	21	18	7	63	10
BCD16015	1.7	21	39	11	18	6	57	5
BCD16016	.5	20	56	83	10	1	163	5
BCD16017	1.9	29	575	24	16	8	81	5

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Asst

COMPANY: MINNOVA INC.
PROJECT NO: 313
ATTENTION: COLIN BURGE

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:F26) PAGE 1 OF 2

FILE NO: 8-1086/P1

* TYPE ROCK GEOCHEM * DATE: AUGUST 8, 1988

(VALUES IN %)	AL2O3	BA	CAO	FE2O3	K2O	MGO	MND2	NA2O	P2O5	SI02	SR	TI02
BCD 16001	14.39	.112	.45	1.59	3.54	2.07	.77	2.62	.07	69.12	.02	.39
BCD 16002	14.76	.061	.71	1.57	1.69	2.23	.60	3.70	.09	67.95	.02	.39
BCD 16003	15.79	.080	.36	4.62	3.63	4.65	1.51	.06	.14	62.25	.01	.61
BCD 16004	13.79	.099	.14	2.35	3.02	1.77	.11	1.53	.10	71.63	.01	.38
BCD 16005	13.51	.051	.68	7.05	1.67	7.02	4.35	.89	.27	47.72	.01	.92
BCD 16006	16.23	.043	.21	8.44	1.96	9.97	2.72	.24	.28	43.41	.01	.95
BCD 16007	14.68	.043	.18	9.52	2.33	7.28	5.72	.02	.26	42.48	.01	.85
BCD 16008	14.52	.039	.36	8.06	1.90	8.10	7.31	.35	.26	45.63	.01	.90
BCD 16009	14.49	.045	.40	8.32	2.07	8.23	8.72	.02	.30	44.39	.01	1.02
BCD 16010	13.80	.047	.62	8.16	1.91	7.42	8.69	.34	.28	41.84	.01	.95
BCD 16011	12.78	.064	.01	4.89	3.00	3.41	.12	.05	.11	62.79	.01	.37
BCD 16012	12.84	.058	.01	5.63	3.29	2.65	2.18	.05	.13	60.23	.01	.41
BCD 16013	12.28	.058	.08	5.97	3.26	1.95	.97	.16	.13	62.89	.01	.40
BCD 16014	13.86	.051	.10	2.15	2.91	3.48	4.45	.80	.13	63.43	.01	.37
BCD 16015	13.55	.042	.16	3.00	2.55	2.83	4.15	1.36	.13	63.75	.01	.44
BCD 16016	13.89	.048	.26	7.20	1.59	6.85	14.27	.81	.25	41.53	.01	.82
BCD 16017	14.32	.169	.28	2.02	3.14	2.15	2.93	2.91	.13	64.86	.02	.39

(VALUES IN %)	ZR	S	TOT(%)
BCD 16001	.016	.35	95.49
BCD 16002	.016	1.08	94.88
BCD 16003	.005	1.83	95.55
BCD 16004	.011	1.76	96.70
BCD 16005	.007	7.05	91.22
BCD 16006	.005	6.80	91.27
BCD 16007	.009	9.10	92.48
BCD 16008	.008	4.50	91.94
BCD 16009	.007	5.50	93.52
BCD 16010	.006	7.20	91.27
BCD 16011	.013	5.25	92.85
BCD 16012	.007	6.10	93.60
BCD 16013	.008	7.25	95.41
BCD 16014	.014	1.34	93.09
BCD 16015	.006	1.63	93.60
BCD 16016	.005	2.54	90.07
BCD 16017	.017	1.12	94.47



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Certificate of Geochem

Company: MINNOVA
Project: 313
Attention: COLIN BURGE

File: 8-1086/P2
Date: AUG 4/88
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	CU PPM	ZN PPM	AG PPM	AU PPB
BCD 16101	14	45	.5	5
BCD 16102	6800	24	6.0	5
BCD 16103	62	10	1.2	5
BCD 16104	22	11	1.6	10
BCD 16105	28	60	1.4	10

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Certified by 

MIN-EN LABORATORIES LTD.

COMPANY: MINNOVA INC.

VICTORY

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 1

PROJECT NO: VIC #341

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1103L/P2

ATTENTION: I. PIRIE/G. SHARP

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

* TYPE ROCK GEOCHEM * DATE: AUGUST 9, 1988

(%)	VCL3001	VCL3002	VCL3003	VCL3004	VCL3005	VCL3006	VCL3008
AL2O3	16.87	16.74	15.78	17.22	15.18	17.89	16.43
BA	.014	.014	.008	.021	.019	.021	.019
CAO	7.05	3.32	3.55	4.84	8.83	9.24	5.04
FE2O3	10.43	15.25	16.09	13.18	12.81	13.72	14.74
K2O	.23	.24	.14	.34	.31	.54	.54

MGO	4.59	9.19	7.73	6.63	6.58	6.45	5.35
MNO2	.14	.23	.23	.22	.16	.22	.20
NA2O	3.43	3.14	3.34	3.33	2.48	2.23	2.85
P2O5	.21	.25	.26	.20	.25	.18	.21
SiO2	46.58	40.41	40.61	43.64	42.61	39.26	44.47

SR	.11	.02	.02	.06	.08	.04	.03
TiO2	1.40	2.40	2.79	1.85	2.30	1.00	2.34
ZR	.010	.009	.012	.013	.012	.005	.013
S	.47	.21	.28	.39	.46	.24	.19
TOT (%)	91.52	91.41	90.84	91.92	92.09	91.04	92.43

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PROJECT NO: 230

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1102L/P1

ATTENTION: I. PIRIE/G. EVANS

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

* TYPE ROCK GEOCHEM * DATE: AUGUST 9, 1988

(%)	10201	10203	10204	10208	10209	10210	10234
AL2O3	17.48	17.50	15.57	16.00	16.48	17.07	16.13
BA	.198	.062	.094	.134	.212	.116	.058
CAO	5.17	7.02	2.16	2.37	3.59	7.22	5.00
FE2O3	6.95	8.42	2.33	2.68	6.45	6.66	9.97
K2O	2.50	1.69	3.29	2.74	5.45	2.56	2.78

MGO	2.73	3.34	.37	.51	2.69	2.98	6.65
MNO2	.14	.14	.02	.01	.07	.11	.19
NA2O	3.56	2.63	2.86	3.22	2.77	2.57	3.09
P2O5	.30	.20	.15	.11	.47	.27	.19
SI02	55.18	51.80	66.76	65.85	54.87	52.55	47.02

SR	.06	.05	.04	.05	.11	.06	.02
TIO2	.54	.76	.33	.29	.97	.79	1.19
ZR	.005	.005	.011	.008	.021	.005	.005
S	.43	.71	.22	.18	.15	1.10	.28
TOT(%)	95.26	94.34	94.20	94.14	94.32	94.06	92.59

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 AUG 11 1988
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