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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

827852

Assay Certificate

9V-0841-RA1

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: AUG-14-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

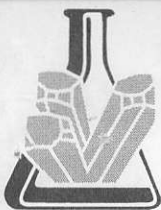
We hereby certify the following Assay of 3 ROCK samples
submitted AUG-08-89 by G.EVANS.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD17967 <i>Portland</i>	1.360	.02	.02	18.4	.54	19.00	.554
BCD17968 <i>Portland</i>	1.260	.03	.01	19.9	.58	10.76	.314
BCD17969 <i>7th Grab</i>	9.580	.02	.01	39.0	1.14	11.18	.326

Certified by

[Handwritten Signature]

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0947-RG3

Company: MINNOVA INC.,
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-29-89

Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Geochemical Analysis of 21 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCS17433 } 7 th	61	16	11	0.9	2
BCS17435 } 7 th	27	13	16	1.1	1
BCS18241 } 7 th	47	21	13	1.2	5
BCS18242 } 7 th	16	22	12	0.9	2
BCS18266 } 7 th	94	27	17	1.3	2

BCS18267 } 7 th	39	30	17	1.5	1
BCS18268 } 7 th	38	17	8	0.9	4
BCS18269 } 7 th	39	30	30	1.4	2
BCS18277 } 8 th	13	17	10	0.7	3
BCS18283 } 8 th	36	11	14	0.4	9

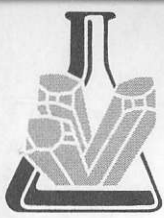
BCS18288 } 7 th	4365	23	85	4.2	245
BCS18291 } 7 th	4175	27	66	6.9	680
BCS18293 } 7 th	375	51	52	5.6	503
BCS18302 } 7 th	362	15	32	1.1	38
BCS18303 } 7 th	1950	17	68	2.9	79

BCS18304 } 7 th	1195	183	89	3.0	245
BCS18305 } 7 th	37	30	15	1.2	14
BCS18306 } 7 th	38	19	44	1.5	1280
BCS18316 } 7 th	57	20	87	1.5	193
BCS18319 } 7 th	47	22	11	0.8	5

BCS18322	1315	17	63	2.0	82

Certified by

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TELEPHONE: (705) 264-9996

Assay Certificate

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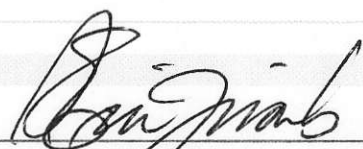
9V-0947-RA1

Company: MINNOVA INC.,
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-28-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS17437	1.980	.01	.01	13.8	.40	4.10	.120
BCS17441	1.510	.01	.02	10.2	.30	.66	.019
BCS18226	.785	.01	.01	6.6	.19	.46	.013
BCS18227	.448	.01	.02	4.5	.13	.25	.007
BCS18228	.583	.01	.01	6.9	.20	1.43	.042
BCS18229	.800	.01	.01	7.0	.20	.79	.023
BCS18230	1.200	.01	.01	8.4	.25	.52	.015
BCS18231	.698	.01	.02	7.7	.22	.40	.012
BCS18232	.071	.01	.02	3.6	.11	.02	.001
BCS18233	.193	.01	.01	2.4	.07	.07	.002
BCS18234	.990	.01	.02	7.8	.23	2.15	.063
BCS18235	2.490	.01	.01	11.2	.33	1.20	.035
BCS18236	1.420	.01	.01	7.7	.22	2.59	.076
BCS18243	.032	.01	.01	0.8	.02	.02	.001
BCS18245	.075	.01	.01	2.5	.07	.03	.001
BCS18246	.460	.01	.01	4.1	.12	.50	.015
BCS18247	.502	.01	.01	8.3	.24	.70	.020
BCS18248	1.730	.01	.01	7.7	.22	1.32	.039
BCS18249	.820	.01	.01	6.2	.18	.78	.023
BCS18250	.252	.01	.01	3.6	.11	.82	.024
BCS18251	.560	.01	.01	4.5	.13	4.71	.137
BCS18252	1.120	.01	.01	4.3	.13	.25	.007
BCS18253	2.590	.01	.01	12.0	.35	.32	.009
BCS18254	1.080	.01	.01	8.4	.25	1.06	.031
BCS18255	2.370	.01	.01	15.8	.46	.46	.013
BCS18256	.790	.01	.01	7.5	.22	.39	.011
BCS18257	1.810	.01	.01	9.7	.28	.98	.029
BCS18258	.163	.01	.01	1.9	.06	.21	.006
BCS18259	.228	.01	.01	1.8	.05	.05	.001
BCS18260	.232	.01	.01	2.1	.06	.22	.006

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Assay Certificate

9V-0947-RA2

Company: MINNOVA INC.,
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-29-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS18261	.382	.01	.01	2.2	.06	.18	.005
BCS18262	.930	.01	.01	5.7	.17	.17	.005
BCS18263	.196	.01	.01	1.8	.05	.19	.006
BCS18264	.294	.01	.01	2.2	.06	.18	.005
BCS18265	.443	.01	.01	3.6	.11	.19	.006

BCS18270	.235	.01	.01	3.1	.09	.03	.001
BCS18271	.650	.01	.02	6.5	.19	.18	.005
BCS18272	4.820	.01	.03	23.4	.68	2.06	.060
BCS18273	.940	.01	.02	7.5	.22	.24	.007
BCS18274	.800	.01	.01	4.8	.14	.18	.005

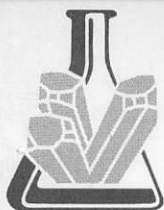
BCS18289	.920	.01	.02	6.3	.18	.27	.008
BCS18290	10.950	.01	.01	62.0	1.81	33.00	.963
BCS18292	.990	.01	.01	8.6	.25	7.31	.213
BCS18294	1.240	.01	.02	19.8	.58	31.00	.904
BCS18311	1.930	.01	.01	11.6	.34	3.48	.102

BCS18312	3.280	.01	.01	14.3	.42	3.78	.110
BCS18313	1.940	.01	.01	9.7	.28	.59	.017
BCS18314	4.160	.01	.07	25.4	.74	29.40	.858
BCS18315	4.550	.01	.03	64.0	1.87	51.75	1.509
BCS18321	2.120	.01	.02	20.5	.60	27.40	.799

BCS18323	7.900	.01	.02	41.8	1.22	11.00	.321
BCS18324	1.390	.01	.01	9.9	.29	1.50	.044
BCS18325	5.720	.01	.01	44.3	1.29	3.74	.109
BCS18326	4.090	.02	.02	20.8	.61	1.16	.034
BCS18327	2.010	.01	.01	12.2	.36	.82	.024

BCS18328	1.420	.01	.02	10.6	.31	.80	.023
BCS18330	1.730	.01	.01	9.4	.27	.46	.013
BCS18331	.625	.01	.01	4.2	.12	.07	.002
BCS18332	3.500	.01	.01	24.0	.70	11.11	.324
BCS18333	2.920	.01	.01	17.6	.51	1.02	.030

Certified by *Ben Jacob*
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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA3

Company: MINNOVA INC.,
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 9 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS18334	.724	.01	.02	7.2	.21	.28	.008
BCS18335	3.110	.01	.02	20.4	.60	1.04	.030
BCS18336	3.030	.01	.01	22.5	.66	4.43	.129
BCS18337	.417	.01	.02	6.4	.19	3.59	.105
BCS18338	2.100	.01	.01	16.9	.49	1.11	.032
BCS18339	1.870	.01	.02	19.8	.58	.41	.012
BCS18340	4.320	.01	.01	23.0	.67	2.22	.065
BCS18341	9.980	.01	.01	47.6	1.39	4.50	.131
BCS18342	.916	.01	.01	8.1	.24	.35	.010
BCS17440	1.590	.01	.02	10.2	.30	.41	.012

Certified by

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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA4

Company: MINNOVA INC.,
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number	LOI %
BCS17426	7.00
BCS17427	5.20
BCS17428	4.65
BCS17429	5.60
BCS17430	2.75

BCS17431	7.30
BCS17432	4.60
BCS17434	4.60
BCS17436	2.35
BCS17438	12.20

BCS17439	7.30
BCS18237	27.30
BCS18238	15.60
BCS18239	3.55
BCS18240	2.75

BCS18244	13.70
BCS18275	12.50
BCS18276	1.90
BCS18278	4.50
BCS18279	4.75

BCS18280	6.60
BCS18281	3.60
BCS18282	6.90
BCS18284	29.70
BCS18285	5.40

BCS18286	1.85
BCS18287	3.95
BCS18301	1.95
BCS18307	23.10
BCS18308	24.50

Certified by *I. Pirie*
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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA5

Company: MINNOVA INC.,
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 6 ROCK samples
submitted AUG-23-89 by LINDA LEE.

Sample Number	LDI %
BCS18309	16.00
BCS18310	1.95
BCS18317	3.40
BCS18318	16.10
BCS18320	22.40
BCS18329	14.90

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TIMMINS OFFICE:
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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-0947-RA6

Company: MINNOVA INC.,
Project: 659
Attn: I. PIRIE/G. EVANS

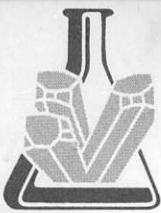
Date: AUG-30-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 4 ROCK samples submitted AUG-23-89 by LINDA LEE.

Sample Number		AU G/TONNE	AU OZ/TON
BCS17426	} surface	5.40	.158
BCS17430		2.22	.065
BCS17431		35.20	1.027
BCS18306	-7th	1.39	.041

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0996-RG2

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: SEP-01-89

Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCS15928	5950	10	61	2.9	462
BCS15929	545	14	45	1.0	4
BCS15930	355	620	2630	8.9	1
BCS15931	1350	26000	2140	72.5	123
BCS17451	2150	185	137	4.3	386

BCS17452	8200	620	152	17.5	425
BCS17453	135	38	49	1.5	81
BCS17454	34	22	18	0.8	3
BCS17458	15	16	17	0.6	2
BCS17462	22	17	54	0.7	19

BCS17463	47	18	37	0.8	10
BCS17465	4050	18	71	7.0	880
BCS17466	25	15	45	0.6	2
BCS17472	970	38	100	4.3	332
BCS17473	45	24	30	0.5	35

BCS17474	225	30	38	1.1	29
BCS17475	37	16	34	0.6	13
BCS17480	7	10	35	0.5	1
BCS17481	8	15	37	0.6	2
BCS17485	81	10	36	0.6	11

BCS17486	195	11	40	1.4	213
BCS17488	3300	16	71	2.4	1520
BCS17526	46	14	24	0.7	16
BCS17528	27	12	60	0.8	4
BCS17529	11	10	45	0.5	2

BCS17534	25	20	52	0.8	3
BCS17535	87	10	39	0.8	6
BCS17536	41	18	50	0.7	37
BCS17537	17	16	15	0.7	2
BCS17539	15	10	31	0.5	5

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0996-RG3

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: SEP-01-89

Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Geochemical Analysis of 2 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCS17540 } 4 th	29	16	40	0.7	2
BCS17541	1070	10	81	1.2	2

Certified by _____

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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0996-RA1

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

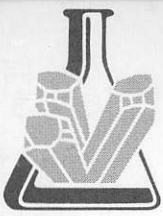
Date: SEP-02-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Assay of 2 ROCK samples
submitted AUG-27-89 by LINDA LEE.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCS17484 } 4 th	.455	.01	.01	3.8	.11	.69	.020
BCS17487 }	.279	.01	.01	4.2	.12	2.21	.064

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TIMMINS OFFICE:
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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0996-RA2

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: SEP-01-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Assay of 1 ROCK samples
submitted AUG-27-89 by LINDA LEE.

Sample Number	AU G/TONNE	AU OZ/TON
BCS17488 -4 ^m	1.62	.047

Certified by _____

[Signature]

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

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TELEPHONE: (705) 264-9996

Assay Certificate

9V-0996-RA3

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: SEP-07-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Assay of 27 ROCK samples submitted AUG-27-89 by LINDA LEE.

Sample Number	LOI %
BCS15926 } surface	5.40
BCS15927 } surface	1.60
BCS15932 } surface	2.95
BCS15955 } surface	6.90
BCS15956 } surface	4.90

BCS15957 } 8 th	21.60
BCS15959 } 8 th	3.70
BCS15960 } 8 th	3.80
BCS15961 } 8 th	2.60
BCS15964 } 8 th	5.40

BCS15967 } surface	7.00
BCS15968 } surface	3.70
BCS15969 } surface	5.50
BCS15970 } surface	3.70
BCS15971 } surface	3.30

BCS15976 } 4 th	2.50
BCS15977 } 4 th	3.90
BCS15978 } 4 th	2.50
BCS15979 } 4 th	3.80
BCS15982 } 4 th	2.80

BCS15983 } surface	4.50
BCS17970 } surface	4.55
BCS17971 } surface	1.05
BCS17527 } 8 th	3.30
BCS17531 } 8 th	4.20

BCS17533 } -4 th	3.70
BCS17538 } -4 th	4.00

Certified by

MIN-EN LABORATORIES

COMP: MINNOVA INC.
 PROJ: 659
 ATTN: I. PIRIE/D. HEBERLEIN

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

FILE NO: 9V-0996-RJ1
 DATE: SEP-07-89
 * TYPE ROCK GEOCHEM * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
BCS15926	15.4	1	38	533	31	1	45	245
BCS15927	.6	11	102	35	27	1	48	5
BCS15932	1.3	7	267	30	57	2	1720	5
BCS17455	1.6	11	423	42	45	2	84	5
BCS17456	.8	7	52	14	17	1	54	5
BCS17457	1.2	1	49	19	74	17	17	10
BCS17459	1.3	2	76	13	34	1	75	5
BCS17460	.9	1	41	13	16	1	45	5
BCS17461	1.9	22	490	34	57	2	46	5
BCS17464	.5	14	49	4	13	1	36	10
BCS17467	.6	14	75	17	19	1	60	20
BCS17468	1.8	17	407	22	44	2	47	15
BCS17469	.6	1	63	42	19	1	46	5
BCS17470	.4	1	60	4	20	1	51	5
BCS17471	.5	1	64	24	15	1	53	5
BCS17476	.8	1	46	11	11	1	58	5
BCS17477	2.4	28	400	31	53	5	52	5
BCS17478	2.2	4	166	36	39	2	76	5
BCS17479	2.3	6	88	24	36	1	98	5
BCS17482	1.6	3	59	11	24	1	77	20
BCS17483	1.0	5	66	553	16	1	39	215
BCS17970	1.4	1	7	49	131	38	35	5
BCS17971	.5	4	21	13	118	1	98	10
BCS17527	.5	6	29	4	17	1	42	5
BCS17531	2.1	19	344	33	40	3	85	5
BCS17533	2.0	10	151	23	35	2	69	5
BCS17538	1.6	12	49	82	105	2	93	5

surface

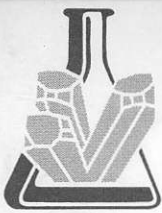
8th

4th

surf

8th

- 4th



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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0841-RG2

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-12-89

Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Geochemical Analysis of 7 ROCK samples submitted AUG-08-89 by G. EVANS.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCD17955	15	21	15	0.2	2
BCD17958	73	17	32	0.4	4
BCD17960	21	28	59	0.4	2
BCD17962	7	26	39	0.2	2
BCD17963	8	36	40	0.8	1
BCD17964	10	34	57	0.8	3
BCD17966	17	20	34	0.3	2

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

Assay Certificate

9V-0841-RA2

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: AUG-15-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., PENTICTON, B.C.

He hereby certify the following Assay of 9 ROCK samples
submitted AUG-08-89 by G. EVANS.

Sample Number	LOI %
BCD17951	1.25
BCD17952	2.20
BCD17953	12.80
BCD17954	1.45
BCD17956	10.50
BCD17957	1.40
BCD17959	11.40
BCD17961	8.00
BCD17965	1.40

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1337-RG1

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE

Date: OCT-21-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 ROCK samples submitted OCT-14-89 by G. EVANS.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCD21501	121	17	46	0.9	2
BCD21503	89	29	57	0.8	1
BCD21504	50	49	73	1.2	32
BCD21506	16	19	37	0.6	3
BCD21511	18	31	44	0.8	25

BCD21512	318	29	51	1.8	321
BCD21513	400	24	50	1.3	384
BCD21514	298	29	40	1.4	64
BCD21515	55	21	43	1.0	2
BCD21517	114	19	42	0.7	35

BCD21518	860	20	54	1.8	1900
BCD21519	64	18	38	0.6	11
BCD21520	150	16	32	0.7	40
BCD21521	72	13	29	0.8	135
BCD21522	820	21	57	1.4	170

BCD21523	590	18	42	0.8	57
BCD21524	620	21	40	0.9	61
BCD21525	530	23	47	1.1	215
BCD21576	640	19	52	1.0	58
BCD21578	221	17	36	0.8	37

BCD21579	130	16	40	0.9	8
BCD21581	880	17	43	1.3	22
BCD21582	324	17	44	1.1	17
BCD21583	780	14	41	1.5	10
BCD21584	52	17	40	0.9	9

BCD21585	232	38	50	1.3	18
BCD21586	10	28	20	0.9	7
BCD21587	29	29	25	1.1	4
BCD21588	10	29	25	0.9	2
BCD21589	10	33	30	0.8	1

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OCT 26 1989
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TELEPHONE: (705) 264-9996

Assay Certificate

9V-1337-RA2

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE

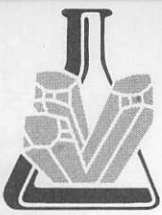
Date: OCT-21-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.

***He hereby certify* the following Assay of 1 ROCK samples
submitted OCT-14-89 by G.EVANS.**

Sample Number	AU G/TONNE	AU OZ/TON
BCD21518	2.18	.064

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Ans'd

Certified by *I. Pirie*
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TELEPHONE: (705) 264-9996

Assay Certificate

9V-1337-RA1

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE

Date: OCT-14-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Assay of 1 ROCK samples
submitted OCT-14-89 by G. EVANS.

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
BCD21502	2.190	.02	.01	14.3	.42	4.86	.142

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

9V-1337-RA3

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE

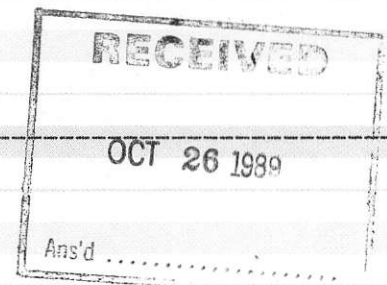
Date: OCT-25-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Assay of 13 ROCK samples
submitted OCT-14-89 by G.EVANS.

Sample Number	LDI %
BCD21505	3.70
BCD21507	2.15
BCD21508	3.80
BCD21509	4.20
BCD21510	3.50

BCD21516	2.50
BCD21577	5.20
BCD21580	7.90
BCD21594	12.80
BCD21596	13.10

BCD21527	14.50
BCD21529	17.60
BCD21534	2.45



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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1337-RG2

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE

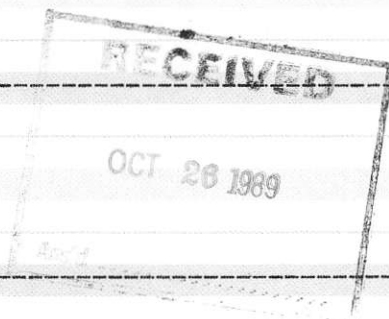
Date: OCT-18-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 15 ROCK samples submitted OCT-14-89 by G. EVANS.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPM
BCD21590	9	29	35	1.0	2
BCD21591	8	30	31	0.9	5
BCD21592	8	31	35	1.0	2
BCD21593	6	32	36	1.2	1
BCD21595	8	28	28	0.8	1

BCD21597	7	28	25	0.9	2
BCD21598	8	29	26	1.2	2
BCD21599	8	35	33	1.3	3
BCD21600	10	31	25	1.1	1
BCD21526	10	32	26	1.0	1

BCD21528	10	34	23	1.0	4
BCD21530	34	27	25	0.8	3
BCD21531	42	23	62	1.1	2
BCD21532	19	25	73	1.2	1
BCD21533	42	24	77	1.0	1



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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1302-RG2

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: OCT-15-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Geochemical Analysis of 25 ROCK samples submitted OCT-07-89 by G. EVANS.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCD21455	13	30	58	0.7	10
BCD21456	109	17	60	0.9	5
BCD21458	16	14	53	0.8	2
BCD21459	52	30	138	1.4	6
BCD21460	14	16	79	0.9	31
BCD21461	109	21	63	1.0	12
BCD21462	335	23	119	1.5	49
BCD21463	1300	25	62	2.6	400
BCD21464	47	14	79	1.1	22
BCD21465	58	13	65	1.1	19
BCD21466	147	17	63	1.2	18
BCD21467	500	19	61	1.3	128
BCD21468	139	14	60	0.9	15
BCD21469	265	15	57	1.0	78
BCD21470	485	19	64	1.3	17
BCD21472	505	20	58	1.4	65
BCD21473	410	15	62	1.2	6
BCD21474	980	14	60	1.7	77
BCD21475	780	10	41	1.3	40
BCD21476	164	13	40	1.0	3
BCD21477	420	14	43	1.2	2
BCD21478	2750	35	119	3.9	860
BCD21481	127	33	60	1.2	49
BCD21482	250	17	59	1.0	23
BCD21486	280	14	98	1.1	7

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TIMMINS OFFICE:
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TELEPHONE: (705) 264-9996

Assay Certificate

9V-1302-RA1

Company: MINNOVA INC.
Project: 659
Attn: I.PIRIE/G.EVANS

Date: OCT-17-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 12 ROCK samples
submitted OCT-07-89 by G.EVANS.

Sample Number	LOI %
BCD21451	3.05
BCD21452	5.70
BCD21453	3.25
BCD21454	6.00
BCD21457	3.10

BCD21471	4.90
BCD21479	2.70
BCD21480	1.90
BCD21483	2.70
BCD21484	2.05

BCD21485	2.70
BCD21487	2.50

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1372-RG2

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: OCT-24-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 CORE samples submitted OCT-18-89 by LINDA LEE.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
BCD19829	27	24	39	0.7	63
BCD19830	4	25	33	0.5	6
BCD19832	197	14	38	1.0	21
BCD19833	43	15	40	0.6	20
BCD19834	155	20	45	0.8	11
BCD19836	66	27	90	1.1	5
BCD19837	12	26	39	0.6	1
BCD19838	3	25	13	0.7	8
BCD19839	11	26	17	0.7	11
BCD19841	34	29	17	0.4	9
BCD19842	26	19	39	0.4	2
BCD19843	112	24	38	0.7	38
BCD19845	20	27	59	1.2	265
BCD19846	6780	26	77	7.1	189
BCD19847	714	21	53	1.4	50
BCD19848	23	26	12	0.7	2
BCD19849	22	24	8	0.6	14
BCD19850	12	23	11	0.7	12
BCD19851	6	22	9	0.7	16
BCD19852	9	20	27	0.7	8
BCD19853	36	26	12	0.9	7
BCD19856	4	17	20	0.8	44
BCD19857	32	16	26	0.7	3
BCD19858	18	12	23	0.5	4
BCD19859	34	15	30	0.6	5
BCD19860	7	12	22	0.5	3
BCD19862	3	12	17	0.3	7
BCD19863	4	9	17	0.3	3
BCD19866	2	10	27	0.2	9
BCD19870	46	22	38	0.9	16

OCT 24 1989
Ans'd

Certified by _____

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-1372-RA1

Company: MINNOVA INC.
Project: 659
Attn: I. PIRIE/G. EVANS

Date: OCT-27-89
Copy 1. MINNOVA INC., VANCOUVER, B.C.

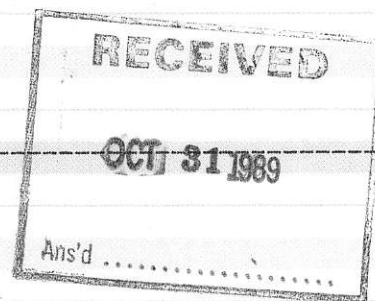
We hereby certify the following Assay of 16 ROCK samples submitted OCT-18-89 by LINDA LEE.

Sample Number	LOI %
BCD19826	2.25
BCD19827	3.90
BCD19828	3.50
BCD19831	6.00
BCD19835	4.20

BCD19840	5.10
BCD19844	6.30
BCD19854	7.00
BCD19855	5.70
BCD19861	6.50

BCD19864	5.70
BCD19865	3.50
BCD19867	4.55
BCD19868	9.20
BCD19869	4.00

BCD19871	22.40



Certified by _____

MIN-EN LABORATORIES

COMP: MINNOVA INC.
 PROJ: 659
 ATTN: I.PIRIE/G.EVANS

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

FILE NO: 9V-1372-RL1
 DATE: OCT-27-89
 * TYPE ROCK GEOCHEM * (ACT:FIRE)

SAMPLE NUMBER	AL2O3 %	BAT %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SI02 %	TIO2 %	S %	TOT(%)
BCD19826	17.53	.105	1.70	3.25	6.56	.88	.07	4.44	.07	61.60	.41	.07	96.68
BCD19827	16.53	.125	3.98	5.18	5.77	3.25	.10	3.40	.16	55.74	.69	.08	95.00
BCD19828	17.89	.055	6.55	4.35	1.24	1.51	.11	3.85	.18	59.69	.42	.04	95.86
BCD19831	18.18	.020	8.55	9.01	.38	4.12	.18	3.12	.25	48.39	.76	.01	92.98
BCD19835	16.39	.140	4.88	5.28	4.20	3.19	.10	3.48	.18	56.19	.68	.10	94.80
BCD19840	16.33	.150	4.80	5.74	5.05	3.47	.10	3.16	.18	54.18	.87	.11	94.15
BCD19844	15.45	.050	4.11	8.21	3.18	2.96	.10	.78	.17	57.43	.36	2.10	94.89
BCD19854	15.55	.035	2.71	10.71	3.39	3.00	.09	.44	.16	55.54	.36	5.00	96.99
BCD19855	17.47	.045	5.15	5.43	2.48	2.22	.12	3.25	.17	56.58	.48	.07	93.47
BCD19861	14.50	.180	7.04	7.17	3.16	5.93	.13	2.45	.26	50.61	1.05	.11	92.59
BCD19864	14.55	.155	5.37	6.05	3.02	4.22	.13	2.87	.21	55.73	.85	.12	93.28
BCD19865	17.37	.045	3.18	2.87	1.83	1.09	.05	5.43	.12	63.38	.30	.04	95.70
BCD19867	16.96	.060	4.07	3.33	2.71	1.62	.09	3.03	.14	62.04	.35	.02	94.42
BCD19868	13.48	.015	6.89	4.39	.76	8.05	.14	1.80	.26	53.96	.24	.01	90.00
BCD19869	17.33	.055	2.32	2.53	3.71	2.96	.10	1.96	.13	63.56	.28	.03	94.97
BCD19871	1.73	.030	14.56	9.10	.01	20.72	.69	.02	.54	28.77	.01	.64	76.82

RECEIVED
 OCT 31 1989
 Ans'd

