MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

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
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Bar - 1990 Geochem + Assays
82M/5

825436

Geochemical Analysis Certificate

OV-0823-RG1

RECEIVED JUL 20 1990 Ans'd

Company: MINNOVA INC.
Project: BAR 215
Attn: I.PIRIE/J.BRADFORD

Date: JUL-17-90
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 JUL-05-90 by L.PRENTICE.

Sample Number	V PPM	NB PPM	TI PPM	Y PPM	ZR PPM
OBRML001	202	48	9900	16	150
OBRML002	222	51	10690	17	165
OBRML003	205	47	10060	17	166
OBRML004	223	57	10790	17	181
OBRML005	193	45	9500	16	152
OBSMT019	268	42	10000	18	111

Certified by

MIN-EN LABORATORIES

COMP: MINNOVA INC.
PROJ: BAR 215
ATTN: I.PIRIE/J.BRADFORD

MIN-EN LABS — ICP REPORT

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

FILE NO: OV-0823-RJ1
DATE: 90/07/17
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
OBCCT009	5.3	41	477	23	32	3	67	62

COMP: MINNOVA INC.
PROJ: BAR 215
ATTN: I.PIRIE/J.BRADFORD

MIN-EN LABS — WHOLE ROCK ANALYSIS

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

FILE NO: OV-0823-RL1
DATE: 90/07/17
* ROCK * (ACT:FIRE)

SAMPLE NUMBER	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SIO2 %	SR %	TIO2 %	S %	LOI %
OBRML001	13.42	.005	3.96	9.93	.01	13.64	.15	1.83	.50	42.32	.010	1.84	.01	11.20
OBRML002	14.08	.010	3.62	10.02	.01	13.56	.13	2.18	.50	42.12	.010	1.89	.02	10.70
OBRML003	13.32	.005	3.57	9.63	.01	13.50	.20	2.71	.50	41.64	.010	1.85	.02	12.30
OBRML004	13.90	.005	3.54	9.95	.01	12.24	.20	2.74	.55	43.47	.010	1.90	.01	10.40
OBRML005	12.44	.005	5.61	8.90	.01	13.76	.16	1.70	.56	40.77	.010	1.73	.63	13.30
OBSMT019	13.22	.020	6.53	11.01	.29	11.34	.14	1.59	.42	39.26	.005	1.69	.01	13.60

COMP: MINNOVA INC
PROJ: BAR 215
ATTN: I.PIRIE/J.BRADFORD

MIN-EN LABS — ICP REPORT

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

FILE NO: OV-0766-RJ1
DATE: 90/07/03
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
OBCCT001	5.2	1	74	2285	30	1	1363	1
OBCCT002	5.3	1	42	2078	21	1	1898	18
OBCCT003	.7	2	301	117	17	1	54	2
OBCCT004	1.4	1	185	187	18	1	66	1
OBCCT005	2.0	6	148	76	63	5	53	8
OBCCT006	.9	6	1209	29	17	1	63	21
OBCCT007	.9	1	1801	21	18	1	25	1
OBCCT008	2.1	1	69	141	30	1	81	1

COMP: MINNOVA INC.
PROJ: BAR 215
ATTN: I.PIRIE/J.BRADFORD

MIN-EN LABS — ICP REPORT

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

FILE NO: OV-0741-RJ1
DATE: 90/06/29
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
OBSCT012	1.7	15020	1	3	118	.6	6	4720	.7	8	31	23880	3030	19	11300	163	10	400	17	570	23	1	6	1	1	58.5	41	2	1	1	52
OBSCT013	.5	6620	14	3	121	.8	1	1280	.1	6	54	20690	3380	1	920	48	2	90	12	730	25	1	6	1	1	10.9	95	1	1	1	24
OBSCT014	.9	5040	13	2	388	.5	2	740	.3	4	22	8270	2800	2	1030	11	5	130	8	540	49	1	5	1	2	11.1	71	1	1	1	44
OBSCT015	1.1	15610	1	7	1333	.7	2	3170	.1	3	48	13610	3200	35	12130	65	1	100	20	1550	26	1	45	2	1	15.7	110	1	1	1	26
OBSCT016	.5	7580	9	1	399	.6	3	2970	.5	6	9	10970	1540	14	8880	62	4	1670	33	490	12	1	5	1	1	45.0	9	2	1	4	140
OBSCT017	1.0	10000	4	4	4513	.4	2	1010	.2	5	243	13810	2120	10	5960	63	1	60	19	290	21	1	7	1	1	20.4	44	2	1	4	149
OBSCT018	.9	10490	3	4	3055	.7	3	6520	.2	10	12	17920	4010	11	8240	789	2	240	32	520	21	1	23	1	1	18.7	62	2	1	1	78
OBSCT019	.7	7040	9	2	3332	.6	2	3170	.3	6	8	15660	3300	7	5650	316	1	170	21	380	19	1	73	1	1	15.2	43	2	1	1	76
OBSCT020	.9	12560	1	3	2747	.6	3	2920	.3	11	62	18260	2920	15	9360	1154	2	340	32	890	21	1	21	1	1	19.1	66	3	1	3	109
OBSCT021	1.1	6890	9	7	756	.4	4	6150	.1	12	62	17690	1990	6	4130	1021	1	330	38	400	24	1	7	1	1	19.7	36	1	2	3	120
OBSCT022	4.8	28300	1	4	37	.2	17	13900	.1	32	50	63670	550	22	21910	679	1	1700	1	660	10	1	3	1	1	159.2	47	2	2	2	37

JUL 4 1990

COMP: MINNOVA INC.
PROJ: WIKIUP
ATTN: I.PIRIE/C.CLAYTON

MIN-EN LABS — ICP REPORT

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

FILE NO: OV-0534-SJ1
DATE: 90/05/30
* SOIL * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPM
OPWI338	1.0	8	135	18	21	1	136	5
OPWI339	.5	10	147	14	22	1	138	5
OPWI340	.5	11	258	11	25	1	164	5
OPWI341	3.6	24	249	88	42	4	104	5
OPWI342	.8	11	93	16	23	1	49	5
OPWI343	.9	5	140	12	17	1	102	5
OPWI344	1.3	10	144	14	17	1	87	5
OPWI345	.4	5	123	9	16	1	58	10
OPWI346	.6	8	106	7	16	1	69	5
OPWI347	.5	16	188	12	20	1	86	5
OPWI348	.2	4	94	7	16	1	67	5
OPWI349	.7	12	97	7	16	1	50	5
OPWI350	.3	30	127	16	26	1	41	5
OPWI351	.4	13	109	8	18	1	42	5
OPWI352	.4	9	111	9	16	1	50	15
OPWI353	.7	14	177	11	22	1	56	5

JUN 1 1990

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

OV-0507-RA1

Company: MINNOVA INC.
Project: WIKIUP
Attn: I.PIRIE/T.CLARKE

Date: MAY-29-90
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., BARRIERE, B.C.

We hereby certify the following Assay of 6 ROCK samples submitted MAY-16-90 by G.AHWOOD.

Sample Number	LOI %
OGWIL001	2.50
OGWIL002	1.90
OPWIL001	6.40
ODWIL001	4.00
ODWIL002	3.30
ODWIL004	6.10

RECEIVED
JUN 1 1990
Ans'd .....

Certified by _____

MIN-EN LABORATORIES

COMP: MINNOVA INC.
PROJ: WIKIUP
ATTN: I.PIRIE/T.CLARKE

MIN-EN LABS — ICP REPORT

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

FILE NO: OV-0507-RJ1
DATE: 90/05/29
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
OGWIL001	.5	18	50	8	42	1	5	5
OGWIL002	.4	10	89	5	21	2	25	5
OPWIL001	.9	17	99	12	16	2	15	5
ODWIL001	.9	12	162	12	21	1	44	5
ODWIL002	.5	11	147	6	19	1	19	5
ODWIL004	.8	14	157	8	18	1	12	10

COMP: MINNOVA INC.
PROJ: WIKIUP
ATTN: I.PIRIE/T.CLARKE

MIN-EN LABS — ICP REPORT

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

FILE NO: OV-0507-RL1
DATE: 90/05/29
* ROCK * (ACT:FIRE)

SAMPLE NUMBER	AL2O3 %	BAT %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	P2O5 %	SIO2 %	TIO2 %	S %	TOT(%) %
OGWIL001	15.36	.035	1.16	1.16	1.28	.84	.03	6.62	.11	69.52	.31	.04	96.45
OGWIL002	16.24	.065	.25	3.06	1.70	1.61	.03	5.61	.11	68.07	.33	.01	97.06
OPWIL001	15.33	.100	3.32	3.49	3.45	1.15	.10	1.92	.26	63.40	.45	.04	93.02
ODWIL001	15.83	.150	2.17	2.37	3.14	.56	.04	3.80	.15	66.46	.35	.22	95.26
ODWIL002	15.84	.125	.83	2.98	3.74	1.06	.04	3.01	.13	67.71	.32	.07	95.86
ODWIL004	14.10	.135	2.02	3.18	4.40	2.09	.04	.87	.17	65.86	.29	.06	93.22

COMP: MINNOVA INC.
PROJ: WIKIUP
ATTN: I.PIRIE/T.CLARKE

MIN-EN LABS — ICP REPORT

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

FILE NO: 0V-0507-RJ2
DATE: 90/05/22
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
0DWIL003	.1	18	11	1	6	1	1	2