



MINNOVA INC.
MINERAL ENVIRONMENTS
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) 980-9821

SMITHERS LAB.:

3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1V-0850-RA1

Company: MINNOVA INC.
Project: 4/2
Attn: I. PIRIE/C. CLAYTON

Date: AUG-23-91
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., SEENWOOD, B.C.

We hereby certify the following Assay of 3 ROCK samples submitted AUG-16-91 by C. CLAYTON.

Sample Number	LOI %
10WR1084	3.00
10WR1085	2.80
10WR1086	3.90

Certified by.

MIN-EN LABORATORIES

COMP: MINNOVA INC.
 PROJ: 661-TAN O'SHANTER
 ATTN: I.PIRIE/CAM 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: 1V-102Z-SJ
 DATE: 91/09/10
 * SOIL * (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	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM
IMTNS177	1.4	23670	88	15	236	.9	11	6390	.1	11	37	21300	1750	22	3740	451	1	1080	13	1090	265	1	38	2	1462	42.3	118	2	3	2	21	8
IMTNS178	.9	20060	36	10	239	.7	12	6220	.1	10	44	21560	1970	18	3710	439	1	1630	19	2720	363	1	47	1	1332	42.3	136	1	3	2	25	2
IMTNS179	1.0	16190	27	5	147	.6	10	5880	.1	10	28	21680	1980	14	3630	524	1	1680	12	820	122	1	31	1	1375	46.1	79	2	2	2	23	43
IMTNS180	.8	15690	11	2	147	.5	9	6220	.1	9	32	22350	2080	12	3560	598	1	1140	9	650	170	1	33	1	1449	48.3	77	2	2	2	22	3
IMTNS181	.8	23550	1	3	185	.6	11	6840	.1	12	244	25450	1800	20	3760	509	1	1010	11	2180	581	1	35	1	1338	45.6	96	2	2	2	20	12
IMTNS182	.6	23470	1	1	174	.5	11	5610	.1	11	180	22640	1100	18	3190	437	1	1010	12	1700	74	1	31	1	1322	41.8	79	1	2	2	18	16
IMTNS183	.8	21700	2	1	142	.4	12	6710	.1	11	151	23420	980	16	3250	346	1	1100	14	1250	176	1	38	1	1334	48.4	74	1	2	2	21	17
IMTNS184	.8	23070	2	1	121	.6	10	5470	.1	9	108	20970	910	13	2910	279	1	1090	12	1790	43	1	29	1	1317	43.5	70	2	2	1	17	3
IMTNS185	.6	16860	3	1	163	.4	9	5610	.1	9	104	19960	1220	15	3020	345	1	980	14	1770	55	1	30	1	1158	40.9	73	3	1	2	19	2
IMTNS186	.6	20090	1	1	123	.5	8	5770	.1	9	211	19850	910	21	2910	258	1	1100	9	400	56	1	24	1	1026	34.2	62	2	1	2	15	19
IMTNS187	.6	23680	1	1	145	.5	9	5450	.1	9	234	21680	1340	18	3430	227	1	1160	10	580	37	1	26	1	1095	37.9	83	3	1	2	16	2
IMTNS188	1.0	26530	1	7	184	.6	10	5200	.1	10	145	21150	1310	14	3270	358	1	1160	13	1470	35	1	27	1	1407	40.8	85	4	2	2	17	16
IMTNS189	.7	25560	5	1	286	.4	9	4970	.1	10	99	21690	1260	13	2940	388	1	1140	5	1090	43	1	22	1	1045	36.1	87	3	2	1	9	18
IMTNS190	.3	19560	1	1	195	.3	7	4660	.1	10	68	22600	1400	13	3300	422	1	1130	3	380	27	1	18	1	754	38.2	78	2	1	1	9	2
IMTNS191	.4	29060	4	1	292	.8	10	6220	.1	15	50	29370	1580	19	5230	762	1	1300	28	1560	63	1	28	1	1265	54.1	182	3	2	3	41	16
IMTNS192	.6	27950	4	1	318	.9	7	7170	.1	17	62	28610	2370	25	7270	314	1	930	37	1500	74	1	37	1	836	61.5	355	5	1	4	83	8
IMTNS193	.4	17410	6	1	487	.5	9	6170	.6	12	48	21680	1500	15	3110	1384	1	1330	28	2330	57	1	26	1	911	37.5	337	1	1	2	24	1
IMTNS194	.6	28330	13	1	201	.5	11	5560	.1	15	54	28720	1240	16	5570	552	1	1050	26	1550	51	1	24	1	1267	55.1	134	4	1	2	33	12
IMTNS195	.5	27270	24	1	237	.7	8	5660	.1	15	72	27260	1350	16	6170	590	1	1040	28	1360	42	1	30	1	1002	50.4	147	4	1	2	35	19
IMTNS196	.4	25810	3	1	170	.8	9	3620	.1	15	58	28050	1060	15	5820	547	1	900	29	870	52	1	18	1	1105	52.3	141	4	1	2	34	11
IMTNS198	.5	24450	8	1	346	.5	9	6420	.1	11	46	21610	920	14	3570	721	1	1540	25	1370	36	1	29	1	1054	37.9	108	2	1	2	21	13
IMTNS199	.4	24150	15	1	258	.6	8	5750	.1	15	59	27510	750	19	4850	530	1	1010	35	1080	45	1	23	1	955	47.8	140	3	2	2	30	21
IMTNS200	.3	22140	12	1	329	.6	8	5180	.1	12	47	23870	1360	15	5670	651	1	1040	38	970	39	1	21	1	750	40.0	137	4	1	2	35	7
IMTNS201	.4	21260	6	1	406	.5	8	5690	.1	14	46	25510	1310	16	5360	762	1	960	42	2060	43	1	27	1	764	42.9	211	4	1	2	34	18
IMTNS202	.3	21040	3	1	704	.9	6	9200	.1	9	36	21550	2440	21	6330	963	1	960	20	1100	32	1	43	1	307	38.0	111	3	1	2	28	4
IMTNS203	.5	25000	1	1	347	.8	7	5650	.1	7	17	18260	1530	19	4180	219	1	1520	14	340	35	1	28	1	629	29.9	72	4	1	1	21	6

COMP: MINNOVA INC.
 PROJ: 661 TAM O'SHANTER
 ATTN: I.PIRIE/CAM 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: 1V-1027-SJ1+2
 DATE: 91/09/10
 * SOIL * (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	TJ PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB
INTMS117	.7	18790	77	18	87	.4	20	6060	.1	9	32	18680	970	18	2890	596	3	320	16	1880	21	3	24	1	1097	35.2	116	4	5	4	18	3
INTMS118	.7	21310	42	13	123	.3	20	6830	.1	10	46	20430	1020	18	3520	625	3	370	19	1670	26	1	26	1	1239	36.9	129	4	5	4	21	2
INTMS119	1.0	21110	45	10	80	.4	21	8820	.1	8	91	18850	830	48	3750	234	4	500	13	650	25	3	27	1	1295	36.9	77	5	5	4	23	2
INTMS120	.7	12270	25	6	120	.1	20	6870	.1	8	21	20660	1790	10	2620	568	2	370	8	980	17	1	28	1	1310	45.3	60	4	3	4	18	3
INTMS121	.8	14950	23	6	107	.1	20	6790	.1	8	28	20030	1670	10	2680	292	2	380	8	930	22	1	29	1	1267	42.2	65	4	4	4	18	15
INTMS122	.6	13420	21	4	73	.1	20	6080	.1	8	15	20210	1520	10	2660	206	2	400	7	270	18	1	23	1	1404	45.7	51	4	4	3	18	9
INTMS123	.5	17740	27	4	124	.1	17	5280	.1	7	17	17370	750	10	2190	427	2	300	8	2010	20	1	26	1	1093	31.7	77	4	4	3	14	6
INTMS124	.6	19060	29	4	82	.1	18	5420	.1	7	26	19030	960	10	2630	302	2	350	9	1330	24	1	24	1	1197	38.4	71	3	4	4	16	2
INTMS125	.3	15080	23	3	125	.1	17	4980	.1	7	25	18540	960	10	2640	447	1	250	10	1340	23	1	24	1	1043	38.8	74	4	3	3	17	5
INTMS126	.6	13170	27	2	186	.1	16	5170	.1	7	36	18930	1010	10	2350	536	3	260	10	2110	21	1	31	1	979	39.0	74	5	3	3	16	8
INTMS127	.6	15580	32	3	122	.1	19	5820	.1	8	58	20900	1440	16	3420	286	2	310	11	700	26	2	25	1	1175	41.9	56	5	3	4	20	17
INTMS128	.8	16140	36	3	128	.1	19	5350	.1	8	64	20010	1210	9	2730	376	2	290	11	1510	22	2	27	1	1131	40.6	66	5	4	4	18	3
INTMS129	.7	16390	31	2	128	.1	19	5810	.1	8	67	20320	1230	10	2960	383	2	320	9	1220	18	2	26	1	1129	41.8	60	5	4	4	18	2
INTMS130	.6	15080	29	2	137	.1	20	5720	.1	8	48	20400	1230	10	3070	363	2	270	9	960	23	1	26	1	1162	42.0	65	5	3	4	18	6
INTMS131	.6	11230	20	1	89	.1	16	5510	.1	7	27	19280	1290	8	2340	300	1	250	11	1060	18	1	25	1	1000	42.5	54	4	3	3	17	16
INTMS132	.3	12980	21	1	104	.1	14	5310	.1	6	21	17770	1340	8	2580	295	2	230	8	1680	18	1	30	1	921	37.5	53	4	2	3	16	1
INTMS133	.5	14180	24	1	124	.1	14	4760	.1	6	19	16690	1600	9	2810	322	2	180	10	1120	20	1	27	1	872	32.9	60	5	3	3	16	19
INTMS134	.7	18910	32	3	187	.1	23	6090	.1	9	34	21830	1700	16	5080	374	2	430	13	1510	28	2	36	1	1511	48.0	136	7	4	4	24	1
INTMS135	.8	17710	30	2	117	.1	17	4730	.1	7	21	15800	920	10	2620	225	1	350	9	1560	20	2	29	1	1099	30.9	69	4	4	4	14	2
INTMS136	.7	20430	31	3	150	.1	21	5180	.1	8	24	19570	1390	12	3210	418	2	370	11	1470	24	1	29	1	1340	40.2	89	6	4	4	17	2
INTMS137	.9	18490	34	3	225	.1	20	5850	.1	8	22	18770	1490	14	3480	305	2	360	12	1900	28	2	42	1	1291	38.2	118	6	4	4	18	5
INTMS138	.9	22000	39	2	146	.1	21	4880	.1	8	29	19730	1210	11	3210	321	2	330	10	1380	24	4	28	1	1323	40.3	69	6	5	4	18	3
INTMS139	.6	15890	28	1	211	.1	17	5620	.1	8	40	18840	1580	11	3290	533	2	320	17	1940	24	2	31	1	1015	33.9	114	5	3	4	22	18
INTMS140	.6	22070	33	3	143	.2	19	5310	.1	7	25	17120	1340	9	2690	342	3	360	11	1520	25	3	31	1	1225	31.4	71	5	4	4	15	9
INTMS141	.6	19040	28	1	174	.1	19	5130	.1	7	22	18200	1270	11	3000	302	2	340	10	1260	24	1	30	1	1266	36.7	80	4	4	4	17	2
INTMS142	.8	20360	28	2	167	.1	20	5170	.1	8	22	19740	1340	12	3340	361	2	340	12	870	25	1	30	1	1329	41.1	74	5	4	4	18	3
INTMS143	1.0	25520	35	4	162	.3	25	6640	.1	11	49	27300	2150	17	5690	269	3	450	16	1020	31	4	39	3	1716	60.7	80	7	5	6	28	2
INTMS144	.5	15100	29	1	164	.1	17	5190	.1	7	22	17650	1050	12	3220	622	2	340	10	1120	23	1	29	1	1075	36.4	78	5	3	3	15	2
INTMS145	.7	15280	31	1	143	.2	16	5220	.1	7	38	16800	1400	11	2700	353	2	310	9	1530	18	1	31	1	1040	32.6	68	4	4	3	15	8
INTMS146	.5	12950	35	1	165	.1	14	5300	.1	6	36	16050	1260	10	2360	395	1	260	8	1740	18	1	29	1	858	31.8	69	4	3	3	14	4
INTMS147	.8	11210	70	23	129	.8	12	5130	.1	7	26	13190	950	16	1940	350	1	890	7	1490	15	1	27	2	767	27.8	68	1	2	2	10	4
INTMS148	.6	12620	25	17	171	.8	12	5080	.1	7	31	16270	990	16	2420	368	1	1030	7	2290	12	1	30	1	931	33.3	71	1	2	2	13	36
INTMS149	.6	12140	19	12	150	.8	10	5800	.1	6	37	14820	860	13	2030	555	1	750	7	1580	13	1	35	1	865	30.8	68	1	2	1	12	3
INTMS150	.7	16900	15	9	152	.7	12	5210	.1	8	48	20550	1110	15	2920	338	1	830	10	2230	9	1	24	2	1226	41.7	65	1	2	2	17	18
INTMS151	.6	14720	6	8	157	.6	11	6270	.1	8	30	20690	1540	13	2900	445	1	840	6	1940	9	1	34	1	1283	43.9	66	1	2	2	16	12
INTMS152	.3	14580	28	5	96	.4	11	5150	.1	7	31	16710	870	13	1970	415	1	910	7	1320	12	1	27	1	1037	31.4	50	1	2	1	11	9
INTMS153	.4	14780	1	3	97	.5	10	7520	.1	6	49	17060	950	18	2340	188	1	1220	6	230	11	1	60	1	1036	32.6	40	1	1	1	13	7
INTMS154	.5	15530	3	2	167	.6	11	5790	.1	6	26	16060	870	12	2000	522	1	1060	8	2310	11	1	43	1	994	31.0	149	1	1	1	12	4
INTMS155	.5	16070	2	1	133	.6	12	5390	.1	8	54	19840	850	16	2730	335	1	790	9	1830	7	1	30	1	1159	41.1	70	1	2	2	17	19
INTMS156	.4	14920	7	1	156	.5	11	5950	.1	7	51	19020	1110	11	2770	427	1	770	8	1680	11	1	35	1	1062	40.0	64	1	1	1	15	8
INTMS157	.3	17100	2	1	113	.6	11	5230	.1	8	36	21170	1020	10	3090	352	1	880	9	1630	12	1	27	1	1173	47.6	75	1	1	2	18	13
INTMS158	.3	15740	1	1	155	.5	10	4940	.1	7	40	18180	1040	14	2720	528	1	770	8	1720	12	1	29	1	1067	35.2	113	1	1	1	15	2
INTMS159	.3	15820	1	1	240	.6	9	4590	.1	7	41	17260	1160	11	2580	629	1	890	9	3090	10	1	39	1	988	32.6	127	1	1	1	14	6
INTMS160	.6	16710	2	1	123	.6	10	6020	.1	7	45	18090	1080	11	2590	287	1	900	11	3000	11	1	53	1	1053	34.7	101	1	1	1	14	17
INTMS161	.2	18060	4	1	180	.4	9	5000	.1	7	40	16830	1110	12	2270	479	1	1090	10	3450	11	1	36	1	954	29.0	126	1	1	1	12	3
INTMS162	.4	15370	2	1	138	.4	11	5050	.1	9	57	20660	1400	11	2870	468	1	1200	9	1600	14	1	27	1	1158	39.7	95	1	1	2	16	102
INTMS163	.3	18300	2	1	196	.5	10	4660	.1	9	50	22000	990	15	3870	690	1	870	14	2440	16	1	36	1	1132	45.0	147	1	1	2	20	16
INTMS164	.4	19420	2	1	144	.5	9	5490	.1	9	57	21250	1200	13	3540	313	1	1000	11	1830												