

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) 980-9621

SMITHERS LAB.: **822225**
 3176 TATLOW ROAD
 SMITHERS, B.C. CANADA V0J 2N0
 TELEPHONE (604) 847-3004
 FAX (604) 847-3005

093K/14

Assay Certificate

1V-0903-PA1

Company: **MINNOVA INC.**
 Project: **671**
 Attn: **D. HEBERLEIN**

RECEIVED
SEP 23 1991

Mt. Sidney Williams

Date: **SEP-19-91**

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

We hereby certify the following Assay of 6 PULP samples submitted AUG-22-91 by W.MOWAT.

Sample Number	AL2O3 %	BA PPM	CAO %	CR PPM	FE2O3 %	MGO %	MNO %	NA2O %	SR PPM	SiO2 %	P2O5 %	K2O %	TiO2 %	RB PPM	Y PPM	ZR PPM
XRF-20	13.20	83	9.88	131	13.77	5.78	.23	4.36	211	50.40	.16	.29	1.822	15	36	125
XRF-21	14.54	84	11.46	175	12.33	6.47	.20	3.18	125	49.40	.14	.18	1.517	<10	15	115
XRF-22	13.70	75	9.67	111	13.62	5.77	.22	3.51	107	50.70	.16	.17	1.775	14	43	134
XRF-23	.04	169	.07	3077	6.92	41.90	.11	.17	<10	38.00	.02	.00	.039	<10	<10	13
XRF-24	19.25	91	6.36	81	6.51	3.86	.09	6.12	413	54.50	.16	.06	.885	13	35	164
XRF-25	14.05	93	10.51	378	9.28	10.01	.15	3.01	282	50.11	.13	.13	1.359	12	<10	65

Certified by _____

[Signature]

MIN-EN LABORATORIES



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1V-0903-PA1

Company: MINNOVA INC.
Project: 671
Attn: D.HEBERLEIN

Date: SEP-19-91
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Assay of 6 PULP samples
submitted AUG-22-91 by W.MOWAT.

Sample Number	NB PPM	LOI %	SUM %
XRF-20	15	.70	100.7
XRF-21	26	.70	100.2
XRF-22	26	1.23	100.6
XRF-23	16	12.08	99.8
XRF-24	11	2.47	100.4
XRF-25	14	1.77	100.6

Certified by _____

[Signature]
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TELEPHONE (604) 847-3004
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Assay Certificate 1V-0836-PA1

Company: MINNOVA INC.
Project: 671
Attn: D. HEBERLEIN

Date: SEP-19-91

SEP 23 1991

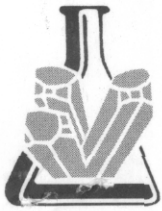
1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Assay of 7 PULP samples submitted AUG-13-91 by U.MOWAT.

Sample Number	AL2O3 %	BA PPM	CAD %	CR PPM	FE2O3 %	MGO %	MNO %	NA2O %	SR PPM	SiO2 %	P2O5 %	K2O %	TiO2 %	RB PPM	Y PPM	ZR PPM
X-13	14.20	99	10.63	106	12.84	5.89	.19	3.73	147	49.65	.12	.42	1.595	<10	24	107
XRF-14	15.10	103	9.47	231	11.69	6.43	.20	4.05	90	50.00	.13	.23	1.491	<10	29	111
XRF-15	15.00	100	9.11	216	9.70	5.96	.17	5.12	373	52.70	.10	.17	1.053	23	<10	70
XRF-16	12.40	75	11.83	159	15.08	6.32	.22	3.55	121	47.60	.13	.34	1.950	<10	34	141
XRF-17	10.55	362	9.44	1085	10.06	14.09	.20	2.23	323	48.92	.23	.48	.837	<10	<10	76
XRF-18	9.83	312	6.94	1304	9.97	13.14	.21	.70	246	42.40	.21	.34	.786	12	13	56
XRF-19	13.85	47	21.54	135	13.65	6.33	.20	.62	21	40.30	.18	.07	1.733	<10	31	101

Certified by *Benjamin*

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1V-0836-PA1

Company: MINNOVA INC.
Project: 671
Attn: D. HEBERLEIN

Date: SEP-19-91
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Assay of 7 PULP samples
submitted AUG-13-91 by U.MOWAT.

Sample Number	NB PPM	LOI %	SUM %
X-13	20	.77	100.1
XRF-14	<10	1.23	100.1
XRF-15	22	.93	100.1
XRF-16	17	.62	100.1
XRF-17	23	2.39	99.7
XRF-18	21	16.00	100.8
XRF-19	17	2.08	100.6

Certified by _____

[Signature]
MIN-EN LABORATORIES

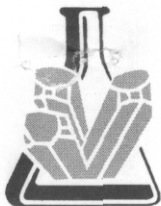
COMP: MINNOVA INC.
 PROJ: 671
 ATTN: D.HEBERLEIN/U.MOWAT

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-0901-RD1+2
 DATE: 91/08/29
 * ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	TI PPM	ZN PPM	CR PPM	AU-FIRE PPB
A98134	.5	1	10	1	664	19	1	51	26	1182	4
A98135	.5	1	5	1	426	11	1	47	22	1038	2
A98136	.5	1	7	1	530	17	1	36	22	1005	2
A98137	.5	1	11	1	660	16	1	30	21	1069	8
A98138	.7	91	17	1	1048	20	1	18	19	807	59
A98139	.6	1	15	1	439	17	1	21	18	758	6
A98140	.6	1	13	1	451	11	1	23	17	838	2
A98141	.9	1	37	1	553	13	1	19	15	703	1
A98142	.6	125	12	1	771	18	1	15	15	697	27
A98143	.9	1	19	1	464	13	1	15	13	604	4
A98144	.7	1	6	1	1501	29	1	51	25	1054	2
A98145	.6	1	10	1	1671	26	1	59	27	1201	3
A98146	.5	1	5	1	1765	30	1	32	26	1129	3
A98147	.5	1	9	1	1624	29	1	45	25	1010	8
A98148	.6	1	7	1	1498	25	1	38	23	962	4
A98150	.7	1	15	1	1694	26	1	52	31	1297	2
A98151	.6	1	13	1	1698	26	1	56	34	1410	12
A98152	.5	1	12	1	1687	25	1	52	38	1508	3
A98153	.6	1	10	1	1667	28	1	46	31	1179	3
A98154	.8	1	9	1	1510	27	1	44	30	1376	2
A98155	.7	1	10	1	1600	27	1	41	26	1124	6
A98156	.8	1	8	1	1543	23	1	49	25	1035	1
A98157	.7	1	13	1	1597	21	1	42	24	893	4
A98158	.6	1	10	1	1531	23	1	35	24	883	2
A98159	.6	1	11	1	1582	26	1	53	30	1264	2
A98160	.7	1	15	1	1438	23	1	62	31	1404	3
A98161	.7	1	12	1	1369	27	1	73	33	1537	2
A98162	.7	1	14	1	1241	23	1	51	31	1397	1
A98163	.6	1	13	1	1110	18	1	51	28	1330	2
A98164	.6	1	14	1	1106	22	1	45	27	1248	28
A98165	.3	1	15	1	427	14	1	14	23	978	3
A98166	.4	1	14	1	495	15	1	22	24	1184	2
A98167	.4	1	14	1	426	14	1	21	23	1085	1
A98168	.4	1	18	1	399	18	1	16	23	1133	53
A98169	.4	34	12	1	864	16	1	11	23	1156	17
A98170	.4	1	12	1	494	14	1	11	21	1103	12
A98171	.3	1	10	1	473	16	1	14	25	1286	4
A98172	.4	55	11	1	797	20	1	17	25	1143	2
A98173	.5	1	12	1	456	16	1	10	24	966	1
A98174	.4	1	17	1	1029	22	1	12	22	799	4
A98175	.4	1	14	1	1181	20	1	18	24	993	3
A98176	.3	1	14	1	638	18	1	27	31	1297	10
A98177	.5	1	11	1	454	19	1	24	24	1052	1
A98178	.8	355	12	1	1265	21	43	14	17	582	20
A98179	1.1	568	21	1	1253	27	63	14	19	528	22
A98180	.8	1211	15	1	1208	18	29	4	13	347	40
A98181	.8	849	12	1	1281	18	23	5	16	390	21
A98182	1.0	1072	13	1	1329	22	30	9	15	459	71
A98183	.8	2024	12	1	1424	23	44	14	17	671	334
A98184	.7	243	11	1	832	18	1	25	22	946	76
A98185	.5	1	22	1	394	14	1	28	23	1035	1
A98186	.4	1	6	1	418	11	1	24	22	862	1
A98187	.6	1	11	1	928	17	1	26	27	976	3
A98188	.6	1	14	1	1384	25	1	45	29	1321	1
A98189	.5	1	13	1	1139	21	1	47	29	1287	2
A98190	.4	1	13	1	1069	25	1	43	29	1349	1
A98191	.4	1	17	1	1490	24	1	32	33	1304	1
A98192	.6	1	13	1	1677	28	1	45	34	1446	7
A98193	.6	1	11	1	1472	21	1	33	27	1067	3
A98194	.8	1	12	1	1477	22	1	35	27	1098	42

SEP 9 1991



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Assay Certificate

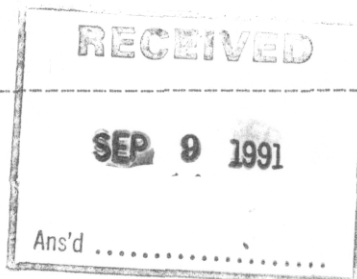
1V-0889-RA1

Company: MINNOVA INC.
Project: 671
Attn: D. HEBERLEIN/U. MOWAT

Date: AUG-29-91
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., FORT ST. JAMES, B.C.

We hereby certify the following Assay of 1 CORE samples
submitted AUG-21-91 by U. MOWAT.

Sample Number	AU g/tonne	AU oz/ton
A98130	3.11	.091



Certified by _____



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TELEPHONE (604) 847-3004
FAX (604) 847-3005

Geochemical Analysis Certificate

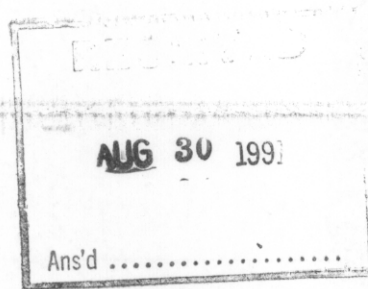
1V-0849-WG1

Company: MINNOVA INC.
Project: 671
Attn: D. HEBERLEIN/U. MOWAT

Date: AUG-28-91
Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., FORT ST. JAMES, B.C.

We hereby certify the following Geochemical Analysis of 6 WATER samples submitted AUG-16-91 by U. MOWAT.

Sample Number	PH
W-1A	6.9
W-2A	7.3
W-3A	7.3
W-4A	7.5
W-5A	7.5
W-6A	7.2



Certified by _____



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TELEPHONE (604) 847-3004
FAX (604) 847-3005

Geochemical Analysis Certificate

1V-0849-WG1

Company: MINNOVA INC.
Project: 671
Attn: D. HEBERLEIN/U. MOWAT

Date: AUG-28-91

Copy 1. MINNOVA INC., VANCOUVER, B.C.
2. MINNOVA INC., FORT ST. JAMES, B.C.

We hereby certify the following Geochemical Analysis of 6 WATER samples submitted AUG-16-91 by U. MOWAT.

Sample Number	PH
W-1A	6.9
W-2A	7.3
W-3A	7.3
W-4A	7.5
W-5A	7.5
W-6A	7.2

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SEP 20 1991

Assay Certificate

1V-0763-PA1

Company: **MINNOVA INC.**
Project: 671
Attn: D. HEBERLEIN

Ans'd

Date: SEP-17-91

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

We hereby certify the following Assay of 12 XRAY ANALYSIS samples submitted JUL-29-91 by D. HEBERLEIN.

Sample Number	AL2O3 %	BA PPM	CAO %	CR PPM	FE2O3 %	MGO %	MNO %	NA2O %	SR PPM	SI02 %	P2O5 %	K2O %	TIO2 %	RB PPM	Y PPM	ZR PPM
X1	15.0	269	9.62	255	9.69	7.11	.16	4.14	321	50.6	.06	.15	1.01	17	10	84
X2	14.9	235	10.50	271	10.90	6.25	.18	4.08	168	49.8	.13	.22	1.37	<10	36	77
X3	15.4	102	7.07	198	10.20	6.62	.18	4.56	295	51.5	.13	.22	1.15	<10	35	107
X4	15.0	212	8.36	288	11.70	6.80	.19	3.73	164	48.7	.13	.42	1.44	21	21	109
X5	13.1	68	10.50	171	11.10	6.51	.18	4.20	160	49.8	.08	.17	1.37	19	37	70
X6	13.5	1560	7.91	99	9.35	7.67	.14	2.26	755	43.0	1.41	1.18	1.77	42	27	213
X7	16.6	151	8.75	43	17.20	6.52	.25	1.77	77	34.8	.03	.96	2.51	34	43	170
X8	12.8	566	8.26	67	9.94	9.23	.17	.51	374	39.1	1.34	1.09	1.67	52	31	184
X9	12.8	161	10.50	144	11.60	6.32	.19	4.56	161	50.9	1.0	.24	1.42	<10	25	62
X10	15.4	86	9.08	215	9.96	6.34	.17	4.83	652	51.7	.11	.15	1.05	<10	30	76
X11	16.0	441	17.50	209	11.90	5.98	.18	.43	3900	43.2	.13	.08	1.36	20	16	79
X12	14.2	56	9.73	224	11.60	6.44	.19	3.43	201	48.2	.13	.12	1.48	<10	31	119

Certified by _____

Ben J. Smith

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Assay Certificate

1V-0763-PA1

Company: **MINNOVA INC.**
Project: 671
Attn: D. HEBERLEIN

Date: SEP-17-91
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Assay of 12 XRAY ANALYSIS samples submitted JUL-29-91 by D. HEBERLEIN.

Sample Number	NB PPM	LOI %	SUM %
X1	13	2.62	100.3
X2	<10	1.62	100.1
X3	<10	3.31	100.4
X4	<10	4.00	100.6
X5	23	2.62	99.7
X6	37	10.70	99.2
X7	<10	11.20	100.7
X8	31	15.80	100.1
X9	30	.85	99.6
X10	<10	.93	99.9
X11	18	1.77	99.1
X12	17	3.93	99.5

Certified by _____

MIN-EN LABORATORIES



GEOCHEMICAL ANALYSIS CERTIFICATE

Minnova Inc. PROJECT 671 File # 91-4002

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	U ppm	Au* ppb
A 98081	1	16	2	12	.1	830	48	694	3.71	48	5	ND	1	25	.2	2	2	21	1.41	.001	2	970	11.80	6	.01	10	.44	.01	.01	1	14
A 98082	1	18	4	9	.1	874	50	663	3.61	41	5	ND	1	30	.2	2	2	19	1.39	.003	2	887	10.88	3	.01	6	.41	.01	.01	1	7
A 98083	1	21	2	10	.1	756	49	647	3.65	34	5	ND	1	26	.2	2	2	19	1.30	.005	2	889	10.12	5	.01	2	.41	.01	.01	1	3
A 98084	1	17	2	8	.1	655	48	675	3.50	34	5	ND	1	26	.2	2	2	15	1.16	.001	2	779	10.64	2	.01	2	.35	.01	.01	1	2
A 98085	1	13	2	7	.1	604	47	681	3.47	43	5	ND	1	20	.2	2	2	12	1.02	.002	2	716	10.80	2	.01	2	.30	.01	.01	1	3
A 98086	1	21	3	12	.1	573	45	651	3.31	43	5	ND	1	12	.2	2	2	11	.90	.004	2	645	10.24	3	.01	2	.29	.01	.01	1	3
A 98087	1	16	4	7	.1	535	42	611	3.05	26	5	ND	1	14	.2	2	2	10	.92	.003	2	583	9.39	2	.01	2	.27	.01	.01	1	2
RE A 98091	1	9	2	24	.2	1076	62	801	4.52	5	5	ND	1	4	.2	2	2	27	.23	.004	2	1190	13.50	14	.01	21	.51	.01	.01	1	2
A 98088	1	10	2	9	.2	724	51	711	3.69	42	5	ND	1	19	.2	2	2	16	.91	.004	2	798	9.67	5	.01	2	.39	.01	.01	1	1
A 98089	1	9	2	8	.1	632	38	654	3.33	16	5	ND	1	15	.2	2	2	9	.68	.002	2	575	9.39	4	.01	2	.25	.01	.01	1	1
A 98090	1	7	2	6	.1	608	32	732	3.61	35	5	ND	1	20	.2	2	2	12	.72	.001	2	732	10.72	3	.01	2	.33	.01	.01	1	1
A 98091	1	7	2	26	.1	1099	64	835	4.69	4	5	ND	1	5	.2	2	3	29	.23	.004	2	1230	13.79	18	.01	22	.54	.01	.01	1	5
A 98092	1	10	2	12	.1	604	48	688	4.04	7	5	ND	1	4	.2	2	2	25	.24	.004	2	1146	10.57	6	.01	2	.44	.01	.01	1	1
A 98093	1	13	2	12	.2	525	45	601	3.95	6	5	ND	1	5	.2	2	2	25	.26	.002	2	1198	10.52	3	.01	2	.46	.01	.01	1	2
A 98094	1	11	2	17	.3	590	55	682	4.39	4	5	ND	1	5	.2	2	2	32	.16	.005	2	1473	11.57	11	.01	4	.64	.01	.01	1	3
A 98095	1	5	2	16	.2	629	48	931	4.26	2	5	ND	1	11	.2	2	2	27	.44	.003	2	1138	11.94	13	.01	5	.53	.01	.01	1	2
A 98096	1	17	25	32	.2	1067	49	704	3.11	256	5	ND	1	49	.3	2	2	28	1.07	.003	2	1079	10.72	27	.01	2	1.17	.01	.01	1	4
A 98097	3	6	18	3	.1	76	4	92	.54	14	5	ND	1	2	.2	2	2	3	.04	.001	2	69	.51	2	.01	3	.13	.01	.01	1	1
A 98098	1	2	10	20	.2	850	42	483	2.65	291	5	ND	1	124	.4	2	2	15	2.30	.002	2	644	11.24	5	.01	2	.76	.01	.01	1	1
A 98099	2	2	33	3	.1	100	5	115	.68	15	5	ND	1	9	.2	2	2	5	.14	.002	2	76	.72	2	.01	4	.20	.01	.01	1	4
A 98100	2	27	1149	22	1.6	117	15	434	2.07	71	5	ND	1	39	.3	2	2	32	.77	.016	2	96	1.45	10	.01	2	.77	.01	.03	1	4
D 98701	2	6	1058	7	1.8	130	9	112	.75	104	5	ND	1	5	.2	2	2	11	.08	.004	2	128	1.02	1	.01	2	.50	.01	.01	1	2
D 98702	2	1	864	13	1.1	390	23	355	1.54	104	5	ND	1	81	.6	2	2	23	1.36	.002	2	354	3.34	4	.01	2	1.20	.01	.01	1	1
D 98703	1	25	24	42	.2	350	35	937	4.81	23	5	ND	1	119	.8	2	3	116	3.21	.023	2	770	5.98	18	.01	2	2.81	.01	.03	1	3
D 98704	1	21	2	8	.3	526	45	652	3.44	46	5	ND	1	37	.2	2	2	18	.80	.004	2	887	10.18	3	.01	2	.52	.01	.01	1	1
D 98705	1	19	4	43	.2	416	42	918	4.37	34	5	ND	1	132	1.0	2	2	101	2.70	.016	2	532	7.30	15	.01	2	3.16	.01	.01	1	4
STANDARD C/AU-R	19	55	39	135	7.1	70	34	1076	4.00	43	20	6	38	52	19.0	14	22	55	.48	.091	38	59	.89	186	.09	34	1.91	.05	.16	12	470

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 30 1991

DATE REPORT MAILED:

Sept 4/91

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SEP 18 1991



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-4002

3rd floor - 311 Water St., Vancouver BC V6B 1B6 Submitted by: U. MOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 98081	1	16	2	12	.1	830	48	694	3.71	48	5	ND	1	25	.2	2	2	21	1.41	.001	2	970	11.80	6	.01	10	.44	.01	.01	1	14
A 98082	1	18	4	9	.1	874	50	663	3.61	41	5	ND	1	30	.2	2	2	19	1.39	.003	2	887	10.88	3	.01	6	.41	.01	.01	1	7
A 98083	1	21	2	10	.1	756	49	647	3.65	34	5	ND	1	26	.2	2	2	19	1.30	.005	2	889	10.12	5	.01	2	.41	.01	.01	1	3
A 98084	1	17	2	8	.1	655	48	675	3.50	34	5	ND	1	26	.2	2	2	15	1.16	.001	2	779	10.64	2	.01	2	.35	.01	.01	1	2
A 98085	1	13	2	7	.1	604	47	681	3.47	43	5	ND	1	20	.2	2	2	12	1.02	.002	2	716	10.80	2	.01	2	.30	.01	.01	1	3
A 98086	1	21	3	12	.1	573	45	651	3.31	43	5	ND	1	12	.2	2	2	11	.90	.004	2	645	10.24	3	.01	2	.29	.01	.01	1	3
A 98087	1	16	4	7	.1	535	42	611	3.05	26	5	ND	1	14	.2	2	2	10	.92	.003	2	583	9.39	2	.01	2	.27	.01	.01	1	2
RE A 98091	1	9	2	24	.2	1076	62	801	4.52	5	5	ND	1	4	.2	2	2	27	.23	.004	2	1190	13.50	14	.01	21	.51	.01	.01	1	2
A 98088	1	10	2	9	.2	724	51	711	3.69	42	5	ND	1	19	.2	2	2	16	.91	.004	2	798	9.67	5	.01	2	.39	.01	.01	1	1
A 98089	1	9	2	8	.1	632	38	654	3.33	16	5	ND	1	15	.2	2	2	9	.68	.002	2	575	9.39	4	.01	2	.25	.01	.01	1	1
A 98090	1	7	2	6	.1	608	32	732	3.61	35	5	ND	1	20	.2	2	2	12	.72	.001	2	732	10.72	3	.01	2	.33	.01	.01	1	1
A 98091	1	7	2	26	.1	1099	64	835	4.69	4	5	ND	1	5	.2	2	3	29	.23	.004	2	1230	13.79	18	.01	22	.54	.01	.01	1	5
A 98092	1	10	2	12	.1	604	48	688	4.04	7	5	ND	1	4	.2	2	2	25	.24	.004	2	1146	10.57	6	.01	2	.44	.01	.01	1	1
A 98093	1	13	2	12	.2	525	45	601	3.95	6	5	ND	1	5	.2	2	2	25	.26	.002	2	1198	10.52	3	.01	2	.46	.01	.01	1	2
A 98094	1	11	2	17	.3	590	55	682	4.39	4	5	ND	1	5	.2	2	2	32	.16	.005	2	1473	11.57	11	.01	4	.64	.01	.01	1	3
A 98095	1	5	2	16	.2	629	48	931	4.26	2	5	ND	1	11	.2	2	2	27	.44	.003	2	1138	11.94	13	.01	5	.53	.01	.01	1	2
A 98096	1	17	25	32	.2	1067	49	704	3.11	256	5	ND	1	49	.3	2	2	28	1.07	.003	2	1079	10.72	27	.01	2	1.17	.01	.01	1	4
A 98097	3	6	18	3	.1	76	4	92	.54	14	5	ND	1	2	.2	2	2	3	.04	.001	2	69	.51	2	.01	3	.13	.01	.01	1	1
A 98098	1	2	10	20	.2	850	42	483	2.65	291	5	ND	1	124	.4	2	2	15	2.30	.002	2	644	11.24	5	.01	2	.76	.01	.01	1	1
A 98099	2	2	33	3	.1	100	5	115	.68	15	5	ND	1	9	.2	2	2	5	.14	.002	2	76	.72	2	.01	4	.20	.01	.01	1	4
A 98100	2	27	1149	22	1.6	117	15	434	2.07	71	5	ND	1	39	.3	2	2	32	.77	.016	2	96	1.45	10	.01	2	.77	.01	.03	1	4
D 98701	2	6	1058	7	1.8	130	9	112	.75	104	5	ND	1	5	.2	2	2	11	.08	.004	2	128	1.02	1	.01	2	.50	.01	.01	1	2
D 98702	2	1	864	13	1.1	390	23	355	1.54	104	5	ND	1	81	.6	2	2	23	1.36	.002	2	354	3.34	4	.01	2	1.20	.01	.01	1	1
D 98703	1	25	24	42	.2	350	35	937	4.81	23	5	ND	1	119	.8	2	3	116	3.21	.023	2	770	5.98	18	.01	2	2.81	.01	.03	1	3
D 98704	1	21	2	8	.3	526	45	652	3.44	46	5	ND	1	37	.2	2	2	18	.80	.004	2	887	10.18	3	.01	2	.52	.01	.01	1	1
D 98705	1	19	4	43	.2	416	42	918	4.37	34	5	ND	1	132	1.0	2	2	101	2.70	.016	2	532	7.30	15	.01	2	3.16	.01	.01	1	4
STANDARD C/AU-R	19	55	39	135	7.1	70	34	1076	4.00	43	20	6	38	52	19.0	14	22	55	.48	.091	38	59	.89	186	.09	34	1.91	.05	.16	12	470

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 30 1991

DATE REPORT MAILED: Sept 4/91

SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SEP 9 1991



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-3783

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOJAT

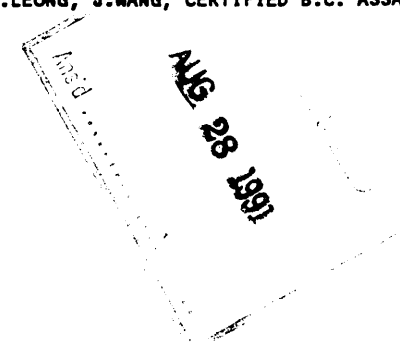
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 98059	1	27	14	68	.1	717	46	651	3.49	76	5	ND	1	21	.2	2	2	17	.31	.003	2	856	9.75	5	.01	5	.38	.01	.01	1	11
A 98060	2	7	11	18	.2	51	3	123	.41	5	5	ND	1	5	.2	2	2	1	.06	.001	2	37	.36	1	.01	3	.05	.01	.01	1	5
A 98061	1	14	2	14	.1	685	49	791	4.28	12	5	ND	1	2	.3	2	2	22	.08	.006	2	834	9.64	8	.01	6	.39	.01	.01	1	6
A 98062	1	5	5	17	.2	891	38	322	2.44	239	5	ND	1	110	.3	2	2	17	1.09	.003	2	579	9.02	2	.01	5	.78	.01	.01	1	3
A 98063	1	55	3	46	.2	48	14	499	3.22	9	5	ND	1	23	.2	2	2	102	1.45	.056	2	26	1.10	10	.33	2	1.38	.23	.06	1	16
A 98064	1	11	2	10	.1	647	40	554	3.11	68	5	ND	1	15	.2	2	2	14	.48	.002	2	602	10.76	18	.01	5	.25	.01	.01	1	1
A 98065	1	9	2	14	.1	722	38	612	3.46	60	5	ND	1	53	.3	2	2	14	1.36	.004	2	745	12.62	4	.01	7	.30	.01	.01	1	2
A 98066	1	9	2	16	.2	928	40	503	3.59	50	5	ND	1	11	.3	2	2	13	.42	.002	2	632	13.90	3	.01	6	.27	.01	.01	1	1
A 98067	1	12	2	16	.2	1084	48	703	3.84	50	5	ND	1	24	.7	2	2	14	.66	.006	2	799	14.91	8	.01	8	.33	.01	.01	1	1
A 98068	1	8	3	9	.1	1007	45	616	3.75	53	5	ND	1	35	.2	2	2	15	.56	.005	2	713	13.70	8	.01	5	.31	.01	.01	1	1
98069	1	11	2	10	.3	1185	44	977	3.25	4	5	ND	1	46	.3	2	2	21	3.55	.003	2	848	15.05	7	.01	15	.46	.01	.01	1	2
A 98070	1	3	2	10	.2	690	43	817	3.55	23	5	ND	1	5	.2	2	2	18	.53	.004	2	815	10.21	7	.01	4	.36	.01	.01	1	1
RE A 98067	1	7	2	8	.2	1067	47	680	3.76	49	5	ND	1	21	.4	2	2	12	.65	.004	2	774	14.80	3	.01	4	.28	.01	.01	1	1
A 98071	1	12	2	9	.1	866	50	741	3.54	7	5	ND	1	8	.2	2	2	19	.67	.004	2	892	10.38	5	.01	7	.41	.01	.01	1	1
A 98072	1	5	2	5	.1	346	21	336	1.52	2	5	ND	1	4	.2	2	2	8	.37	.001	2	372	4.48	1	.01	3	.15	.01	.01	1	2
A 98073	1	11	2	7	.4	976	47	686	3.63	74	5	ND	1	4	.2	2	2	20	.46	.001	2	832	9.76	6	.01	24	.40	.01	.01	1	1
A 98074	1	8	2	6	.2	567	35	533	2.68	20	5	ND	1	6	.2	2	2	15	.47	.004	2	762	7.81	3	.01	4	.34	.01	.01	1	4
A 98075	1	4	2	3	.1	471	28	430	2.11	17	5	ND	1	9	.2	2	2	11	.53	.003	2	539	6.08	3	.01	3	.25	.01	.01	1	3
A 98076	1	10	2	8	.1	946	48	696	3.62	24	5	ND	1	6	.2	2	2	16	.49	.003	2	826	10.87	4	.01	15	.37	.01	.01	1	1
A 98077	1	12	2	10	.1	690	41	634	3.15	25	5	ND	1	14	.2	2	2	15	.81	.005	2	723	9.66	2	.01	4	.33	.01	.01	1	2
A 98078	1	7	2	6	.2	784	44	617	2.96	37	5	ND	1	11	.2	2	2	12	.65	.003	2	594	9.24	2	.01	3	.26	.01	.01	1	3
A 98079	1	12	2	7	.1	687	39	555	2.67	32	5	ND	1	8	.2	2	2	12	.60	.005	2	548	8.29	1	.01	3	.24	.01	.01	1	7
A 98080	1	19	2	11	.1	778	45	625	3.08	39	5	ND	1	7	.2	2	2	16	.61	.001	2	699	9.56	2	.01	4	.31	.01	.01	1	3
STANDARD C/AU-R	18	55	36	131	7.1	68	31	1015	3.88	40	19	6	38	52	18.2	17	19	56	.46	.087	36	57	.83	173	.09	34	1.90	.06	.15	11	530

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 22 1991

DATE REPORT MAILED: Aug 28/91

SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS





GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-3783
 3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. NOWAT

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
A 98059	1	27	14	68	.1	717	46	651	3.49	76	5	ND	1	21	.2	2	2	17	.31	.003	2	856	9.75	5	.01	5	.38	.01	.01	1	11
A 98060	2	7	11	18	.2	51	3	123	4.41	5	5	ND	1	5	.2	2	2	1	.06	.001	2	37	.36	1	.01	3	.05	.01	.01	1	5
A 98061	1	14	2	14	.1	685	49	791	4.28	12	5	ND	1	2	.3	2	2	22	.08	.006	2	834	9.64	8	.01	6	.39	.01	.01	1	6
A 98062	1	5	5	17	.2	891	38	322	2.44	239	5	ND	1	110	.3	2	2	17	1.09	.003	2	579	9.02	2	.01	5	.78	.01	.01	1	3
A 98063	1	55	3	46	.2	48	14	499	3.22	9	5	ND	1	23	.2	2	2	102	1.45	.056	2	26	1.10	10	.33	2	1.38	.23	.06	1	16
A 98064	1	11	2	10	.1	647	40	554	3.11	68	5	ND	1	15	.2	2	2	14	.48	.002	2	602	10.76	18	.01	5	.25	.01	.01	1	1
A 98065	1	9	2	14	.1	722	38	612	3.46	60	5	ND	1	53	.3	2	2	14	1.36	.004	2	745	12.62	4	.01	7	.30	.01	.01	1	2
A 98066	1	9	2	16	.2	928	40	503	3.59	50	5	ND	1	11	.3	2	2	13	.42	.002	2	632	13.90	3	.01	6	.27	.01	.01	1	1
A 98067	1	12	2	16	.2	1084	48	703	3.84	50	5	ND	1	24	.7	2	2	14	.66	.006	2	799	14.91	8	.01	8	.33	.01	.01	1	1
A 98068	1	8	3	9	.1	1007	45	616	3.75	53	5	ND	1	35	.2	2	2	15	.56	.005	2	713	13.70	8	.01	5	.31	.01	.01	1	1
98069	1	11	2	10	.3	1185	44	977	3.25	4	5	ND	1	46	.3	2	2	21	3.55	.003	2	848	15.05	7	.01	15	.46	.01	.01	1	2
RE A 98070	1	3	2	10	.2	690	43	817	3.55	23	5	ND	1	5	.2	2	2	18	.53	.004	2	815	10.21	7	.01	4	.36	.01	.01	1	1
A 98071	1	7	2	8	.2	1067	47	680	3.76	49	5	ND	1	21	.4	2	2	12	.65	.004	2	774	14.80	3	.01	4	.28	.01	.01	1	1
A 98072	1	12	2	9	.1	866	50	741	3.54	7	5	ND	1	8	.2	2	2	19	.67	.004	2	892	10.38	5	.01	7	.41	.01	.01	1	1
A 98073	1	5	2	5	.1	346	21	336	1.52	2	5	ND	1	4	.2	2	2	8	.37	.001	2	372	4.48	1	.01	3	.15	.01	.01	1	2
A 98074	1	11	2	7	.4	976	47	686	3.63	74	5	ND	1	4	.2	2	2	20	.46	.001	2	832	9.76	6	.01	24	.40	.01	.01	1	1
A 98075	1	8	2	6	.2	567	35	533	2.68	20	5	ND	1	6	.2	2	2	15	.47	.004	2	762	7.81	3	.01	4	.34	.01	.01	1	4
A 98076	1	4	2	3	.1	471	28	430	2.11	17	5	ND	1	9	.2	2	2	11	.53	.003	2	539	6.08	3	.01	3	.25	.01	.01	1	3
A 98077	1	10	2	8	.1	946	48	696	3.62	24	5	ND	1	6	.2	2	2	16	.49	.003	2	826	10.87	4	.01	15	.37	.01	.01	1	1
A 98078	1	12	2	10	.1	690	41	634	3.15	25	5	ND	1	14	.2	2	2	15	.81	.005	2	723	9.66	2	.01	4	.33	.01	.01	1	2
A 98078	1	7	2	6	.2	784	44	617	2.96	37	5	ND	1	11	.2	2	2	12	.65	.003	2	594	9.24	2	.01	3	.26	.01	.01	1	3
A 98079	1	12	2	7	.1	687	39	555	2.67	32	5	ND	1	8	.2	2	2	12	.60	.005	2	548	8.29	1	.01	3	.24	.01	.01	1	7
A 98080	1	19	2	11	.1	778	45	625	3.08	39	5	ND	1	7	.2	2	2	16	.61	.001	2	699	9.56	2	.01	4	.31	.01	.01	1	3
STANDARD C/AU-R	18	55	36	131	7.1	68	31	1015	3.88	40	19	6	38	52	18.2	17	19	56	.46	.087	36	57	.83	173	.09	34	1.90	.06	.15	11	530

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 22 1991 DATE REPORT MAILED: *Aug 28/91* SIGNED BY: *C. Leong* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

AUG 28 1991



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-3674
3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	U ppm	Au* ppb
A 98057	1	9	24	64	.1	1380	53	712	4.48	658	5	ND	1	6	.2	56	2	16	.45	.002	2	458	17.40	66	.01	11	.10	.01	.02	1	54
A 98058	1	9	2	25	.1	1414	56	654	4.35	830	5	ND	1	7	.2	43	2	18	.39	.003	2	485	16.45	23	.01	10	.12	.01	.02	1	92
D 98582	1	14	4	21	.1	1387	49	657	4.66	705	5	ND	1	7	.2	34	2	20	1.30	.002	2	382	16.30	17	.01	7	.18	.01	.02	1	28
D 98583	1	8	4	20	.1	1359	53	638	4.26	779	5	ND	1	9	.2	75	2	20	.83	.003	2	406	15.84	18	.01	8	.12	.01	.02	1	16
D 98584	1	7	2	17	.1	1357	52	706	4.43	849	5	ND	1	6	.2	54	2	20	.46	.002	2	426	16.74	14	.01	6	.12	.01	.02	1	40
D 98585	1	9	5	47	.1	1610	62	767	5.01	1023	5	ND	1	17	.2	57	2	20	1.38	.003	2	374	15.32	60	.01	6	.14	.01	.02	1	12
D 98586	1	7	2	26	.1	1224	53	680	4.35	886	5	ND	1	9	.2	47	2	20	1.03	.004	2	383	14.75	16	.01	9	.14	.01	.03	1	35
D 98587	1	8	3	16	.1	1018	42	549	3.67	598	5	ND	1	9	.2	40	2	18	.91	.002	2	353	12.41	115	.01	7	.13	.01	.03	1	23
D 98588	1	5	4	20	.1	1344	51	460	3.14	358	5	ND	1	3	.2	82	2	4	.04	.003	2	149	13.15	12	.01	8	.03	.01	.01	1	650
D 98589	1	6	2	22	.1	1468	61	613	3.80	502	5	ND	1	2	.2	74	2	5	.06	.001	2	229	15.98	8	.01	10	.02	.01	.01	1	320
D 98590	1	2	3	23	.2	1327	66	718	3.89	240	5	ND	1	2	.2	16	2	2	.03	.001	2	155	18.55	7	.01	12	.01	.01	.01	1	260
D 98591	1	2	2	15	.1	796	51	558	3.25	57	5	ND	1	1	.2	3	2	2	.02	.001	2	175	15.25	5	.01	12	.02	.01	.01	1	8
D 98592	1	3	4	25	.1	1471	62	492	3.69	219	5	ND	1	1	.2	12	2	3	.03	.001	2	106	18.48	6	.01	10	.01	.01	.01	1	81
D 98593	1	18	7	24	.1	1365	56	656	3.41	363	5	ND	1	2	.2	29	2	4	.07	.001	2	163	15.29	8	.01	8	.02	.01	.01	2	410
D 98594	1	3	2	24	.1	1194	56	624	3.52	81	5	ND	1	1	.2	4	2	2	.02	.001	2	181	18.84	3	.01	11	.01	.01	.01	1	19
D 98595	1	3	2	21	.1	1354	59	425	3.46	192	5	ND	1	1	.2	7	2	1	.03	.001	2	85	20.18	5	.01	10	.01	.01	.01	1	10
D 98596	1	10	3	18	.1	1291	53	582	4.05	441	5	ND	1	6	.2	30	2	12	.15	.001	2	372	17.91	9	.01	10	.06	.01	.01	3	370
D 98598	1	11	5	17	.1	1183	49	498	3.80	793	5	ND	1	3	.2	33	2	10	.20	.001	2	314	16.36	8	.01	13	.04	.01	.01	3	690
D 98599	1	7	3	25	.1	1509	60	524	3.77	136	5	ND	1	2	.2	6	2	5	.11	.001	2	178	16.54	10	.01	13	.04	.01	.01	1	44
RE D 98594	1	3	2	21	.1	1213	56	616	3.49	79	5	ND	1	1	.2	4	2	2	.02	.001	2	183	18.98	3	.01	8	.01	.01	.01	1	5
D 98600	1	10	2	18	.1	1363	55	589	4.45	604	5	ND	1	6	.2	40	2	21	.50	.001	2	489	17.17	11	.01	8	.11	.01	.02	1	250
STANDARD C/AU-R	18	56	40	132	7.2	70	33	1036	3.96	38	18	7	39	52	18.4	15	18	55	.48	.089	38	58	.88	176	.09	33	1.89	.06	.15	13	500

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 20 1991

DATE REPORT MAILED:

Aug 23/91

SIGNED BY: *A. Toye* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

AUG 26 1991

GEOCHEMICAL ANALYSIS CERTIFICATE

Minnova Inc. PROJECT 671 File # 91-3514 Page 1
 3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOHAT



AUG 26 1991

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
5+00W 2+00N	1	31	2	94	.1	603	43	736	5.19	12	5	ND	1	9	.3	2	2	56	.17	.073	5	806	6.45	74	.08	18	1.81	.01	.03	1	2.2
5+00W 1+75N	1	46	3	68	.1	658	46	1065	4.82	21	5	ND	1	17	.4	2	2	58	.23	.053	9	730	4.54	83	.10	10	1.79	.01	.04	1	2.5
5+00W 1+50N	1	69	4	119	.3	625	36	1250	5.23	31	5	ND	1	18	.6	2	2	60	.28	.188	10	759	3.67	144	.04	8	2.28	.01	.10	1	2.3
5+00W 1+25N	1	42	3	70	.1	565	34	700	4.39	18	5	ND	1	16	.4	2	2	53	.23	.036	9	554	4.65	69	.12	10	1.65	.01	.05	1	2.1
5+00W 1+00N	1	24	5	69	.1	334	29	424	4.44	12	5	ND	1	13	.2	2	3	63	.18	.025	5	472	3.40	62	.16	7	1.72	.01	.03	1	4.0
5+00W 0+75N	1	110	2	105	.4	930	55	1883	5.81	59	6	ND	1	21	.6	2	2	65	.45	.137	21	1064	3.94	123	.05	9	2.81	.01	.07	1	2.8
5+00W 0+50N	1	56	2	90	.1	501	44	1037	5.46	56	5	ND	1	13	.3	2	2	64	.30	.063	7	637	3.95	71	.10	9	2.21	.01	.03	1	1.8
5+00W 0+25N	1	20	3	79	.3	311	32	473	6.16	28	5	ND	1	8	.2	2	2	92	.14	.038	5	664	2.03	85	.19	2	1.52	.01	.05	1	2.0
5+00W 0+00N	1	45	2	96	.1	457	35	821	4.63	32	5	ND	1	12	.3	2	2	57	.31	.049	8	577	4.04	68	.11	9	2.16	.01	.04	1	2.5
4+00W 2+00N	1	26	2	68	.1	415	26	418	3.67	8	5	ND	1	12	.2	2	2	46	.23	.039	5	523	4.50	56	.13	11	1.48	.01	.03	1	16.8
4+00W 1+75N	1	23	2	72	.1	443	45	685	4.73	12	5	ND	1	10	.3	2	2	57	.22	.034	5	626	4.25	67	.16	10	1.56	.01	.03	1	1.5
4+00W 1+50N	1	18	4	80	.1	210	19	304	3.58	8	5	ND	1	12	.2	2	2	67	.14	.029	6	363	2.27	64	.17	3	1.85	.01	.02	1	4.2
4+00W 1+25N	1	25	4	92	.3	449	50	901	6.89	83	5	ND	1	12	.5	2	2	92	.11	.067	5	874	3.41	124	.12	7	1.94	.01	.04	1	5.6
4+00W 1+00N	1	42	2	87	.1	299	29	636	5.71	61	5	ND	1	11	.3	2	2	86	.18	.036	5	437	2.43	99	.19	4	2.25	.01	.02	1	11.6
4+00W 0+75N	1	58	5	102	.2	586	49	1604	6.17	72	5	ND	1	18	.4	2	2	71	.34	.067	12	781	4.50	113	.09	9	2.17	.01	.07	1	2.8
4+00W 0+50N	1	54	2	94	.2	780	58	1025	6.16	32	5	ND	1	11	.5	2	2	70	.21	.063	5	979	6.64	76	.08	11	2.04	.01	.04	1	4.6
4+00W 0+25N	1	15	4	75	.3	199	20	460	3.25	12	5	ND	1	13	.2	2	2	57	.19	.023	5	348	2.19	80	.16	5	1.71	.01	.04	1	8.5
4+00W 0+00N	1	23	2	83	.2	377	34	523	6.89	25	5	ND	1	9	.4	2	2	88	.16	.034	4	692	3.58	96	.24	7	1.95	.01	.02	1	2.2
1+00W 8+00N	1	21	3	109	.3	256	30	584	6.36	15	5	ND	1	11	.3	2	2	80	.16	.114	6	504	2.41	104	.18	4	2.28	.01	.04	1	1.5
1+00W 7+75N	1	30	2	103	.2	291	30	551	6.67	26	5	ND	1	12	.5	2	2	98	.18	.103	6	538	2.82	129	.18	5	2.42	.01	.02	1	77.6
1+00W 7+50N	1	33	3	105	.4	266	34	699	7.69	168	5	ND	1	11	.3	2	2	104	.21	.181	5	586	2.59	94	.18	4	2.41	.01	.05	1	2.5
1+00W 7+25N	1	32	3	91	.2	269	39	930	7.20	79	5	ND	1	13	.3	2	2	95	.18	.154	6	600	2.40	117	.17	4	2.04	.01	.04	1	2.4
1+00W 7+00N	1	35	2	102	.3	355	43	819	6.49	28	5	ND	1	15	.5	2	2	86	.27	.164	7	594	3.10	142	.13	5	2.38	.01	.05	1	1.1
1+00W 6+75N	1	33	4	108	.4	411	47	800	6.27	89	7	ND	1	17	.3	2	2	81	.41	.099	7	637	3.25	113	.14	4	2.40	.01	.08	1	4.2
1+00W 6+50N	1	29	3	115	.3	449	54	896	7.91	31	5	ND	1	12	.5	2	2	95	.21	.082	5	914	4.27	95	.18	11	2.22	.01	.03	1	2.6
1+00W 6+25N	1	26	3	98	.2	592	52	624	8.08	62	5	ND	1	16	.3	2	2	85	.33	.036	5	1006	3.54	78	.17	9	1.61	.01	.03	1	1.4
1+00W 6+00N	1	83	2	67	.1	162	21	541	4.97	14	5	ND	1	8	.2	2	2	106	.15	.029	4	355	1.93	65	.25	2	2.66	.01	.01	1	.7
1+00W 5+75N	1	27	3	67	.2	734	70	815	8.14	21	5	ND	1	13	.5	2	2	81	.33	.021	4	1016	3.87	76	.15	9	1.72	.01	.02	1	1.7
1+00W 5+50N	1	479	4	104	.7	484	95	2320	5.57	125	5	ND	1	36	.9	2	2	74	1.08	.110	10	647	1.58	160	.09	4	2.48	.01	.04	1	1.6
1+00W 5+25N	1	31	4	82	.4	225	26	496	6.74	21	5	ND	1	9	.8	2	2	99	.12	.034	6	535	1.60	57	.31	2	2.16	.01	.02	1	3.3
1+00W 5+00N	1	87	2	107	.3	354	42	888	5.89	483	5	ND	1	11	.4	2	2	76	.26	.031	6	531	2.90	79	.16	3	2.79	.01	.03	1	9.1
1+00W 4+75N	1	85	3	154	.3	621	42	1106	5.46	316	5	ND	1	23	.6	2	2	62	.48	.061	12	642	3.97	80	.12	8	2.23	.01	.07	1	3.9
1+00W 4+50N	1	76	2	102	.4	382	39	1166	5.07	117	6	ND	1	18	.5	2	2	64	.43	.056	7	481	3.43	89	.14	5	2.37	.01	.06	1	3.3
1+00W 4+25N	1	27	4	147	.1	275	31	760	7.52	181	5	ND	1	11	.5	2	2	95	.18	.050	6	498	2.01	116	.27	2	2.47	.01	.02	1	.3
1+00W 4+00N	1	76	2	124	.1	435	41	1358	5.49	184	5	ND	1	21	.6	2	2	66	.47	.086	13	522	2.91	118	.09	4	2.79	.01	.08	1	5.9
RE 1+00W 5+00N	1	88	2	111	.1	356	42	902	5.87	492	5	ND	1	11	.6	2	2	75	.27	.031	7	532	2.93	79	.15	4	2.80	.01	.02	1	6.6
1+00W 3+75N	1	68	2	95	.3	356	39	835	5.18	53	5	ND	1	19	.4	2	2	64	.42	.041	8	486	2.70	105	.12	4	2.42	.01	.06	1	7.4
STANDARD C/AU-S	18	57	38	129	6.7	67	30	959	3.99	37	18	7	35	48	18.0	15	19	55	.44	.086	36	57	.77	171	.08	33	1.73	.05	.13	12	49.1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: P1-P3 SOIL P4-P6 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.
 Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 13 1991

DATE REPORT MAILED:

Aug 23/91

SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	U ppm	Au* ppb
1+00W 3+50N	1	25	2	90	.1	240	28	577	3.94	14	5	ND	1	18	.2	2	4	60	.25	.020	6	369	2.67	69	.16	5	1.82	.01	.04	2	10.6
1+00W 3+25N	1	26	2	98	.1	251	26	456	4.79	13	5	ND	1	15	.3	2	2	68	.16	.028	6	391	2.89	72	.18	5	2.05	.01	.03	1	5.4
1+00W 3+00N	1	18	2	85	.1	175	21	449	4.08	14	5	ND	1	16	.2	2	2	71	.26	.016	6	343	2.35	83	.20	2	2.14	.01	.03	1	3.5
1+00W 2+75N	1	34	4	93	.1	232	32	963	3.86	101	5	ND	1	22	.5	2	2	60	.42	.040	8	319	2.25	117	.12	3	2.09	.01	.07	1	3.4
1+00W 2+50N	1	31	2	104	.1	293	32	973	4.32	69	5	ND	1	18	.3	2	2	67	.32	.040	7	373	2.83	118	.14	2	2.29	.01	.07	1	9.7
1+00W 2+25N	1	36	3	105	.1	409	35	818	4.97	24	5	ND	1	14	.2	2	2	66	.30	.038	5	467	3.59	75	.15	6	2.29	.01	.05	2	2.2
1+00W 2+00N	1	28	4	91	.1	374	33	726	4.40	18	5	ND	1	14	.2	2	2	64	.30	.032	5	405	3.23	88	.15	4	2.13	.01	.05	1	1.4
1+00W 1+75N	1	45	2	85	.1	513	48	969	4.99	20	5	ND	1	14	.2	2	2	64	.34	.047	6	619	4.27	78	.15	4	2.26	.01	.04	1	3.7
1+00W 1+50N	1	17	4	84	.1	284	24	419	3.57	9	5	ND	1	16	.4	2	3	61	.25	.023	5	388	3.05	97	.16	5	1.71	.01	.02	1	2.0
1+00W 1+25N	1	35	2	89	.1	412	39	624	5.58	18	5	ND	1	12	.3	2	2	75	.17	.036	5	649	3.71	102	.15	6	2.27	.01	.03	1	1.6
1+ 1+00M	1	32	2	89	.1	460	41	654	5.98	18	5	ND	1	11	.4	2	5	82	.20	.024	4	759	3.68	79	.21	5	2.15	.01	.04	1	14.1
1+00W 0+75N	1	32	5	96	.1	461	39	664	4.82	16	5	ND	1	15	.3	2	2	65	.25	.042	5	629	4.21	98	.12	7	2.12	.01	.04	1	5.9
1+00W 0+50N	1	35	3	110	.1	569	47	836	5.17	31	5	ND	1	18	.2	2	2	67	.32	.051	7	694	4.52	92	.11	9	2.27	.01	.05	1	7.5
1+00W 0+25N	1	69	3	78	.1	1162	76	1341	5.90	113	5	ND	1	10	.2	2	3	62	.26	.041	5	934	7.58	56	.11	15	1.89	.01	.05	1	79.2
1+00W 0+00M	1	19	3	89	.1	457	47	572	6.11	46	5	ND	1	8	.3	2	2	75	.14	.022	3	1038	5.00	68	.16	10	2.17	.01	.02	1	9.4
0+00 8+00N	11	64	12	216	.1	209	59	2173	7.79	342	5	ND	1	9	.8	7	2	130	.13	.155	8	385	.78	131	.09	5	1.89	.01	.06	1	7.0
0+00 7+75N	1	40	6	126	.2	704	60	1074	7.26	144	5	ND	1	22	.6	2	2	95	.41	.083	11	1064	3.92	133	.15	10	2.66	.01	.05	2	4.6
0+00 7+50N	1	78	5	97	.1	628	42	930	4.86	224	5	ND	1	32	.2	2	6	62	.63	.069	11	758	3.90	78	.12	4	2.32	.01	.08	1	14.6
0+00 7+25N	1	58	8	92	.1	572	41	921	4.66	204	5	ND	1	28	.3	2	4	62	.52	.043	10	779	3.66	72	.13	3	2.17	.01	.06	1	4.9
0+00 7+00N	1	65	5	121	.2	787	45	1671	5.35	64	5	ND	1	37	.8	2	2	67	.81	.125	26	1428	4.00	114	.07	9	2.48	.01	.07	1	2.9
0+00 6+75N	1	81	2	109	.1	694	56	1168	6.54	113	5	ND	1	25	.5	2	2	76	.54	.060	11	943	4.06	83	.13	8	2.24	.01	.07	1	8.0
0+00 6+50N	1	183	2	129	.1	985	105	4716	8.54	52	5	ND	1	23	1.1	2	2	114	.41	.123	15	1005	4.37	232	.09	9	4.70	.01	.14	1	3.4
0+00 6+25N	1	35	2	78	.1	184	29	689	6.01	35	5	ND	1	9	.7	2	2	99	.13	.039	4	408	1.59	108	.26	3	2.25	.01	.04	1	2.2
0+00 6+00N	1	66	2	99	.1	204	35	1051	6.15	74	5	ND	1	12	.3	2	2	91	.24	.031	5	370	2.37	116	.26	4	3.02	.01	.06	1	4.7
0+00 5+75N	1	296	6	190	.5	1492	80	7894	8.41	46	5	ND	1	28	2.0	2	3	97	.53	.080	16	1008	3.65	303	.12	6	4.26	.01	.11	1	4.8
0+00 5+50N	1	33	2	106	.1	433	48	874	8.59	25	5	ND	1	11	.6	2	2	105	.23	.065	5	849	3.34	133	.28	5	2.05	.01	.05	1	3.4
0+00 5+25N	1	66	5	92	.1	442	43	841	5.86	148	5	ND	1	22	.4	3	2	79	.59	.022	4	520	3.13	112	.20	5	2.51	.01	.05	2	2.5
0+00 5+00N	1	120	7	107	.1	605	41	821	6.00	277	5	ND	1	24	.6	2	4	76	.57	.051	8	609	3.45	109	.13	3	2.68	.01	.07	1	3.9
0+ 1+75N	1	251	4	92	.1	376	37	912	5.64	177	5	ND	1	17	.6	4	4	82	.45	.033	7	397	2.68	101	.19	3	3.34	.01	.06	1	4.9
RE JO 5+50N	1	31	2	106	.1	429	49	783	8.69	23	5	ND	1	11	.2	2	2	105	.23	.065	5	850	3.32	132	.29	2	2.05	.01	.04	1	2.6
0+00 4+50N	1	62	2	69	.1	181	24	498	4.20	170	5	ND	1	9	.4	7	2	64	.28	.029	3	334	2.57	47	.16	5	2.04	.01	.04	2	5.1
0+00 4+25N	1	158	6	124	.2	678	45	1213	5.72	381	5	ND	1	36	.6	7	4	71	.80	.071	12	495	2.63	159	.08	2	2.85	.01	.09	1	13.9
0+00 4+00N	1	159	4	149	.1	536	53	1226	6.34	252	5	ND	1	15	.6	3	3	88	.26	.057	8	531	2.75	158	.12	2	3.45	.01	.08	1	7.6
0+00 3+75N	1	51	3	99	.1	237	30	592	6.21	51	5	ND	1	11	.6	4	2	83	.20	.040	4	448	2.51	70	.28	2	2.44	.01	.04	1	3.7
0+00 3+50N	1	61	3	90	.1	348	38	870	5.09	20	5	ND	1	11	.5	2	2	69	.34	.051	4	465	3.64	76	.20	5	2.54	.01	.05	1	12.1
0+00 3+25N	1	17	2	75	.1	186	27	599	4.91	10	5	ND	1	11	.3	2	2	78	.27	.067	4	387	2.28	79	.22	5	2.01	.01	.04	1	1.7
0+00 3+00N	1	57	7	62	.1	276	35	738	3.96	39	5	ND	1	13	.6	2	2	73	.21	.037	8	502	1.76	109	.18	2	1.98	.01	.05	1	1.9
STANDARD C/AU-S	19	58	38	133	7.4	69	34	1050	3.99	43	16	7	40	52	18.7	14	20	55	.48	.091	39	58	.89	175	.09	34	1.87	.06	.15	11	49.7

Samples beginning 'RE' are duplicate samples.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
0+00 2+75N	1	45	4	108	.1	371	41	1236	5.56	18	5	ND	1	14	.2	2	4	74	.23	.050	6	467	2.86	105	.15	4	2.49	.01	.07	1	2.3
0+00 2+50N	1	33	6	105	.1	297	25	562	5.01	16	5	ND	1	16	.2	2	3	72	.27	.030	6	403	2.67	106	.20	5	2.25	.01	.06	1	1.9
0+00 2+25N	1	34	4	97	.2	429	35	761	5.03	20	5	ND	1	14	.2	2	2	68	.29	.028	6	494	3.47	83	.20	6	2.26	.01	.06	1	2.4
0+00 2+00N	1	54	2	91	.1	437	35	703	5.04	20	5	ND	1	19	.2	2	3	63	.37	.040	7	442	3.51	79	.19	6	2.29	.01	.06	1	2.4
0+00 1+75N	1	28	4	106	.1	489	36	667	4.98	16	5	ND	1	14	.2	2	4	69	.32	.030	5	498	3.73	85	.20	6	2.46	.01	.06	1	1.1
0+00 1+50N	1	35	3	100	.1	588	48	1160	5.31	27	5	ND	1	14	.2	2	2	63	.27	.060	7	607	4.34	89	.12	8	2.27	.01	.05	1	3.1
0+00 1+25N	1	31	4	94	.1	609	44	904	5.40	34	5	ND	1	13	.2	2	4	72	.27	.042	6	650	4.76	96	.13	8	2.44	.01	.04	1	3.2
0+00 1+00N	1	27	8	109	.1	552	51	969	5.37	25	5	ND	1	14	.2	2	2	66	.23	.057	5	570	4.03	79	.12	8	2.41	.01	.05	1	3.1
0+00 0+75N	1	33	2	58	.1	965	60	885	5.66	47	5	ND	1	6	.2	2	3	60	.17	.036	3	887	8.16	49	.11	20	1.83	.01	.03	1	16.7
1+00E 8+00N	1	28	7	87	.2	339	34	663	6.21	66	5	ND	1	10	.2	2	2	95	.16	.031	4	534	2.64	120	.23	6	2.04	.01	.05	1	4.5
1+00L 75N	1	51	4	80	.1	419	35	671	4.68	16	5	ND	1	17	.2	2	2	62	.33	.032	7	391	3.62	74	.23	8	2.25	.01	.04	1	4.1
1+00E 7+50N	1	54	5	89	.3	514	30	572	4.17	236	5	ND	1	28	.2	2	2	53	.68	.078	10	850	2.93	104	.10	7	2.36	.01	.07	1	4.4
1+00E 7+25N	1	32	7	112	.1	295	27	696	4.78	18	5	ND	1	18	.2	2	3	71	.24	.022	7	394	2.60	90	.21	4	2.49	.01	.05	1	2.1
1+00E 7+00N	1	50	4	104	.1	495	38	942	5.26	35	5	ND	1	21	.2	2	3	68	.44	.045	7	442	3.16	100	.17	7	2.39	.01	.06	1	2.2
1+00E 6+75N	1	28	5	98	.1	284	24	520	4.91	14	5	ND	1	18	.2	2	2	74	.24	.029	6	381	2.93	74	.23	5	2.23	.01	.05	1	2.7
1+00E 6+50N	1	26	2	134	.1	532	76	1155	9.40	58	5	ND	1	11	.2	2	2	86	.20	.042	3	1123	5.06	82	.22	12	2.08	.01	.03	1	4.1
1+00E 6+25N	1	62	5	118	.1	639	49	801	6.63	39	5	ND	1	20	.2	2	4	73	.42	.046	8	793	4.29	104	.13	11	2.26	.01	.06	1	2.7
1+00E 6+00N	1	67	4	112	.2	378	31	547	5.65	145	5	ND	1	24	.6	2	3	76	.55	.032	5	470	2.34	70	.15	4	2.59	.01	.05	1	3.6
1+00E 5+75N	1	145	2	106	.2	672	43	1143	5.82	384	5	ND	1	26	.3	4	3	69	.70	.070	9	567	3.14	110	.09	6	2.70	.01	.08	1	7.3
1+00E 5+50N	1	97	3	98	.1	456	33	787	5.34	189	5	ND	1	21	.2	2	4	76	.53	.036	6	380	2.74	123	.16	5	2.74	.01	.08	1	2.1
1+00E 5+25N	1	74	4	100	.1	434	34	750	5.35	394	5	ND	1	18	.2	5	2	71	.42	.032	5	440	3.10	100	.14	5	2.39	.01	.06	1	12.9
RE 1+00E 6+25N	1	60	4	113	.1	603	46	766	6.29	43	5	ND	1	19	.4	2	3	71	.41	.046	8	765	4.16	99	.13	13	2.20	.01	.06	1	2.4
1+00E 5+00N	1	22	2	74	.1	632	61	701	11.39	99	5	ND	1	7	.2	4	3	171	.11	.040	2	953	3.03	93	.25	4	2.05	.01	.03	1	2.5
1+00E 4+75N	1	73	2	75	.1	437	34	727	5.21	103	5	ND	1	13	.2	2	2	74	.34	.033	7	495	3.70	102	.20	7	2.34	.01	.05	1	3.1
1+00E 4+50N	1	42	2	89	.1	448	41	845	6.13	85	5	ND	1	14	.2	2	2	83	.29	.031	4	592	3.55	115	.18	6	2.36	.01	.06	1	4.6
1+00E 4+25N	1	34	3	77	.1	908	69	1108	6.47	112	5	ND	1	13	.2	2	2	56	.27	.049	4	869	6.50	48	.09	15	1.50	.01	.03	1	11.7
1+00E 4+00N	1	46	2	71	.1	803	58	830	5.77	65	5	ND	1	10	.2	2	2	62	.25	.045	3	810	7.01	78	.12	18	1.78	.01	.03	1	11.3
1+00E 3+75N	1	38	2	67	.1	773	51	790	5.49	53	5	ND	1	9	.2	2	2	57	.25	.037	3	804	7.39	38	.12	21	1.68	.01	.04	1	14.7
1+00E 3+50N	1	28	4	76	.1	623	48	725	5.67	83	5	ND	1	10	.4	2	2	64	.18	.048	5	876	5.53	55	.09	13	1.73	.01	.04	1	15.1
1+00L 2+50N	1	35	5	104	.1	405	37	1046	4.90	28	5	ND	1	17	.2	2	3	65	.27	.044	6	447	3.28	88	.13	8	2.16	.01	.05	1	4.2
1+00E 3+00N	1	23	8	80	.1	269	26	567	4.22	18	5	ND	1	18	.2	2	3	67	.28	.023	6	348	2.70	95	.19	5	1.95	.01	.05	1	3.6
1+00E 2+75N	1	32	4	65	.1	623	44	700	5.14	28	5	ND	1	13	.2	2	2	56	.24	.060	4	718	6.26	81	.11	18	1.62	.01	.03	1	5.6
1+00E 2+50N	1	45	3	64	.1	788	52	847	5.40	27	5	ND	1	12	.2	2	2	56	.26	.038	5	712	6.90	52	.17	17	1.50	.01	.04	1	10.5
1+00E 2+25N	1	29	2	53	.1	1039	73	955	5.97	44	5	ND	1	6	.2	2	2	59	.15	.030	2	1019	10.15	39	.10	28	1.70	.01	.03	1	15.5
2+50E 2+25S	1	16	2	71	.1	1189	76	816	6.37	65	5	ND	1	5	.2	2	2	47	.09	.041	2	1343	15.53	29	.03	10	1.39	.01	.01	1	53.0
BL 7+40E	1	38	2	104	.1	751	74	1334	11.46	4	5	ND	1	4	.2	2	2	127	1.32	.039	2	489	2.60	80	.08	2	1.91	.01	.04	1	2.0
STANDARD C/AU-S	18	56	36	132	6.9	69	33	1041	3.97	37	17	7	38	54	18.3	14	20	55	.48	.090	37	58	.87	177	.09	36	1.88	.06	.15	12	48.6

Samples beginning 'RE' are duplicate samples.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 98621	1	12	2	16	.1	895	52	813	3.65	200	5	ND	1	5	.2	3	2	20	.51	.002	2	943	14.92	12	.01	11	.42	.01	.01	1	144
A 98622	1	18	2	17	.1	862	55	814	3.95	84	5	ND	1	4	.2	4	2	22	.44	.002	2	972	14.58	13	.01	9	.40	.01	.01	1	32
A 98623	1	18	2	16	.1	996	60	852	4.20	118	5	ND	1	7	.2	3	2	23	.59	.002	2	926	14.97	26	.01	7	.40	.01	.01	1	54
A 98624	1	30	2	13	.1	1145	56	585	3.98	185	5	ND	1	3	.2	3	2	20	.35	.001	2	775	15.51	18	.01	4	.33	.01	.01	1	60
A 98625	1	16	4	14	.5	1124	51	548	3.83	2548	5	2	1	2	.2	25	2	16	.14	.002	2	392	14.56	11	.01	6	.10	.01	.02	1	1323
A 98626	1	8	2	17	.1	1280	63	569	4.91	331	5	ND	1	7	.2	6	3	24	.33	.002	2	926	15.28	21	.01	5	.37	.01	.01	1	86
A 98627	1	13	2	16	.1	1081	64	548	4.26	86	5	ND	1	4	.2	3	2	22	.29	.001	2	968	16.07	9	.01	6	.38	.01	.01	1	11
A 98628	1	13	2	16	.1	1313	58	493	4.09	552	5	ND	1	3	.2	106	2	23	.14	.002	2	831	16.91	13	.01	8	.31	.01	.01	1	206
A 98629	1	17	2	14	.4	1364	57	525	4.34	1137	5	ND	1	3	.2	42	2	20	.16	.002	2	628	16.83	15	.01	7	.15	.01	.02	1	367
A 98630	1	5	2	14	.1	1291	59	570	4.22	483	5	ND	1	3	.2	39	2	20	.40	.001	2	589	16.26	18	.01	8	.13	.01	.03	1	133
A 1	1	16	2	18	.1	1490	71	746	3.99	574	5	ND	1	4	.2	59	2	18	.24	.002	2	587	15.95	26	.01	10	.12	.01	.02	1	142
RE A 98636	1	10	2	14	.1	1196	51	513	4.09	163	5	ND	1	6	.2	4	2	21	.57	.001	2	683	16.69	11	.01	5	.25	.01	.02	1	31
A 98632	1	11	2	15	.2	1218	56	583	4.39	1269	5	ND	1	4	.2	31	2	18	.22	.001	2	539	16.38	7	.01	7	.14	.01	.02	1	546
A 98633	1	15	2	19	.1	993	57	614	4.65	174	5	ND	1	8	.2	4	2	25	.40	.002	2	955	15.92	9	.01	10	.37	.01	.01	1	160
A 98634	1	4	2	16	.1	1043	47	861	4.23	64	5	ND	1	8	.2	11	2	18	1.31	.002	2	500	14.60	9	.01	6	.17	.01	.01	1	39
A 98635	1	11	2	18	.2	1271	58	869	4.42	448	5	ND	1	4	.2	20	2	17	.34	.002	2	533	15.56	8	.01	9	.13	.01	.02	1	220
A 98636	1	10	2	14	.1	1172	50	506	4.02	160	5	ND	1	6	.2	4	2	20	.56	.002	2	669	16.37	10	.01	6	.24	.01	.02	1	26
A 98637	1	10	2	16	.1	861	43	555	4.19	13	5	ND	1	3	.2	2	2	23	.28	.001	2	1164	13.82	5	.01	3	.49	.01	.01	1	7
A 98638	1	13	2	22	.2	1176	61	641	3.40	5	5	ND	1	18	.2	2	2	24	.69	.001	2	910	12.63	2	.01	16	.57	.01	.01	1	3
A 98639	1	11	2	25	.1	1222	61	816	3.77	3	5	ND	1	13	.2	2	2	23	.52	.001	2	1001	13.18	2	.01	17	.53	.01	.01	1	5
A 98640	1	10	2	108	.2	534	55	827	4.27	10	5	ND	1	6	.7	2	2	25	.19	.004	2	1158	9.15	20	.01	6	.57	.01	.01	1	3
A 98641	1	6	2	48	.1	575	47	590	3.65	15	5	ND	1	6	.2	2	2	19	.17	.002	2	967	9.55	9	.01	3	.53	.01	.01	1	2
A 98642	1	15	2	19	.1	1128	66	592	4.22	34	5	ND	1	3	.2	3	2	16	.13	.001	2	938	10.40	13	.01	2	.36	.01	.01	1	1
A 98643	1	10	2	16	.1	947	58	649	3.85	20	5	ND	1	3	.2	2	2	7	.21	.002	2	462	11.04	11	.01	4	.21	.01	.01	1	2
A 98644	1	10	2	19	.1	1147	56	951	3.57	38	5	ND	1	2	.2	2	2	3	.09	.002	2	175	12.80	16	.01	5	.07	.01	.01	1	1
A 98645	1	29	2	16	.2	817	45	1168	3.28	15	5	ND	1	65	.2	2	2	19	3.61	.011	2	814	6.96	6	.01	2	.59	.01	.01	1	3
A 98646	1	36	2	24	.1	1130	60	552	3.73	44	5	ND	1	15	.2	3	2	22	.47	.006	2	964	10.19	5	.01	2	.65	.01	.01	1	1
A 98647	1	17	2	21	.1	957	50	619	3.25	28	5	ND	1	5	.2	3	2	13	.18	.001	2	770	8.90	2	.01	2	.39	.01	.01	1	1
A 98648	1	14	2	18	.1	1042	53	763	3.58	33	5	ND	1	2	.2	2	2	9	.09	.002	2	705	10.88	3	.01	3	.34	.01	.01	1	1
A 98649	1	17	2	18	.1	1146	58	733	3.57	28	5	ND	1	2	.2	2	2	8	.08	.002	2	611	11.13	2	.01	2	.29	.01	.01	1	3
D 98192	1	7	8	24	.1	1031	51	571	3.63	67	5	ND	1	53	.2	2	2	10	.85	.001	2	473	13.86	3	.01	3	.23	.01	.01	1	2
D 98193	1	36	2	47	.2	112	17	610	3.92	3	5	ND	1	29	.2	2	2	93	3.91	.049	2	55	2.06	20	.46	2	2.24	.04	.02	1	1
D 98194	1	4	2	18	.1	937	75	1029	4.84	61	5	ND	1	1	.2	2	2	23	.03	.002	2	908	12.67	23	.01	36	.40	.01	.01	1	2
D 98195	1	1	2	17	.1	952	51	814	3.97	13	5	ND	1	3	.2	2	2	19	.34	.001	2	811	15.60	5	.01	5	.30	.01	.01	1	4
D 98196	1	4	2	17	.1	873	56	981	3.61	2	5	ND	1	2	.2	2	2	11	.52	.003	2	542	13.11	13	.01	5	.11	.01	.01	1	1
D 98197	1	5	2	18	.1	913	57	884	3.86	3	5	ND	1	1	.2	2	2	9	.16	.002	2	567	14.64	14	.01	3	.10	.01	.01	1	1
STANDARD C/AU-R	18	57	36	134	7.0	71	33	1110	4.01	40	15	7	38	54	18.9	16	19	57	.49	.092	37	59	.89	185	.09	31	1.93	.06	.16	13	462

Samples beginning 'RE' are duplicate samples.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
D 98199	1	23	4	25	.1	19	4	2031	.96	99	5	ND	1	135	.3	9	2	3	6.57	.136	4	10	2.63	20	.01	3	.07	.01	.02	1	44
D 98200	1	10	3	18	.1	1282	49	519	3.59	24	5	ND	1	5	.2	2	2	18	.22	.003	2	407	16.62	18	.01	7	.10	.01	.02	1	10
D 98632	1	9	2	29	.1	1413	59	521	3.94	6	5	ND	1	1	.2	2	2	18	.15	.001	2	911	17.04	8	.01	21	.32	.01	.01	1	5
D 98633	1	6	2	16	.1	972	59	798	4.05	183	5	ND	1	2	.2	2	2	14	.16	.001	2	726	16.65	4	.01	6	.16	.01	.01	1	45
D 98634	1	7	2	15	.1	810	57	853	3.85	30	5	ND	1	1	.2	2	2	15	.15	.001	2	788	16.46	5	.01	6	.20	.01	.01	1	15
D 98635	1	6	2	18	.1	955	57	686	4.69	116	5	ND	1	2	.2	2	2	16	.14	.002	2	771	15.68	11	.01	6	.19	.01	.01	1	9
D 98636	1	7	2	14	.1	663	61	650	3.71	4	5	ND	1	1	.2	2	2	12	.24	.001	2	616	14.06	6	.01	8	.18	.01	.01	1	3
D 98637	1	9	2	19	.1	876	64	705	4.40	13	5	ND	1	1	.2	2	2	18	.17	.001	2	895	15.55	11	.01	9	.23	.01	.01	1	5
D 98638	1	8	2	19	.1	1135	65	751	4.27	42	5	ND	1	2	.2	2	2	15	.23	.003	2	672	15.61	11	.01	10	.17	.01	.01	1	3
D 98639	1	10	2	18	.1	1142	64	686	4.58	61	5	ND	1	1	.2	2	2	15	.26	.001	2	699	16.36	6	.01	7	.16	.01	.01	1	5
RE /8636	1	7	2	15	.1	681	62	662	3.78	3	5	ND	1	1	.2	2	2	12	.24	.001	2	629	14.44	4	.01	9	.18	.01	.01	1	4
D 98640	1	10	2	16	.1	745	59	746	4.21	3	5	ND	1	1	.2	2	2	13	.09	.001	2	669	12.86	14	.01	5	.19	.01	.01	1	3
STANDARD C/AU-R	18	57	37	132	6.9	70	31	1040	3.93	41	18	7	37	51	18.6	16	17	55	.49	.090	37	58	.87	176	.09	34	1.89	.06	.15	11	460

Samples beginning 'RE' are duplicate samples.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	Pt** ppb	Pd** ppb
D 98198	1	27	3	32	.1	218	23	539	2.60	2	5	ND	1	45	.2	2	2	53	1.01	.048	3	407	3.31	36	.19	2	2.08	.18	.08	1	4	7	9



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-3496 Page 1

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOMAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	U ppm	Au* ppb
D 98562	1	12	8	27	.1	1206	63	770	3.39	46	8	ND	1	7	.2	2	2	4	.32	.008	2	393	10.79	16	.01	2	.11	.01	.01	1	8
D 98563	1	10	7	51	.1	1259	65	856	3.75	37	5	ND	1	2	.2	2	2	12	.09	.018	2	755	11.25	36	.01	2	.28	.01	.01	1	7
D 98564	1	16	11	41	.1	1446	71	559	3.54	25	5	ND	1	40	.2	2	2	33	1.07	.013	2	877	9.53	18	.01	2	.69	.01	.01	1	2
D 98565	1	7	8	41	.1	1340	63	559	3.64	23	5	ND	1	6	.2	2	2	14	.19	.012	2	543	12.05	23	.01	2	.22	.01	.01	1	2
D 98566	1	7	9	36	.1	1302	59	674	4.04	233	7	ND	1	28	.2	7	2	20	.59	.012	2	716	15.36	27	.01	2	.21	.01	.01	1	3
D 98567	1	14	11	36	.1	619	35	227	1.31	16	5	ND	1	2	.2	2	2	15	.28	.008	2	1052	3.18	4	.05	2	1.24	.01	.01	1	3
D 98568	1	10	8	37	.1	979	47	586	3.51	352	5	ND	1	16	.2	15	2	25	.50	.008	2	346	11.07	18	.01	2	.40	.01	.02	1	4
D 98569	1	13	6	52	.1	856	73	832	3.46	16	5	ND	1	10	.2	2	2	8	.68	.015	2	396	11.66	37	.01	2	.13	.01	.01	1	2
D 98570	1	13	8	39	.1	1260	61	827	3.55	48	5	ND	1	46	.3	2	2	20	1.66	.005	2	1059	12.20	10	.01	2	.50	.01	.01	1	3
D 98571	1	16	4	34	.1	1194	67	937	3.43	78	5	ND	1	24	.2	2	2	24	.85	.006	2	1268	9.60	22	.01	2	.52	.01	.01	1	6
D 98572	1	27	7	92	.1	114	33	1119	6.37	95	5	ND	4	167	.2	4	2	65	8.80	.336	60	63	2.69	134	.01	2	1.51	.01	.29	1	6
D 98573	1	68	2	87	.1	529	58	1258	7.07	2	5	ND	1	56	.4	2	2	104	2.54	.024	2	754	5.71	112	.01	2	3.40	.01	.09	1	1
D 98574	1	5	8	21	.1	35	5	215	.80	4	5	ND	1	3	.2	2	2	8	.13	.018	2	46	.20	17	.01	2	.24	.01	.03	2	1
D 98575	1	8	7	19	.1	1285	65	772	2.97	99	8	ND	1	158	.2	2	5	21	1.95	.005	2	925	8.73	7	.01	2	.36	.01	.01	1	3
D 98576	1	10	3	41	.1	1818	96	850	3.67	53	5	ND	1	29	.2	2	2	19	.52	.008	2	1002	8.46	37	.01	5	.32	.01	.01	1	5
RE D 98572	1	31	6	93	.1	113	32	1100	6.28	92	5	ND	7	166	.4	7	2	66	8.81	.335	62	51	2.51	133	.01	2	1.51	.01	.28	1	4
D 98577	1	9	7	28	.1	1510	67	666	3.63	40	8	ND	1	36	.2	2	2	23	.82	.010	2	865	11.78	17	.01	8	.38	.01	.01	1	4
D 98578	1	12	5	24	.1	1735	77	720	3.22	32	7	ND	2	2	.2	2	2	6	.05	.005	2	427	11.69	7	.01	2	.04	.01	.01	1	4
D 98579	1	18	3	16	.1	1103	62	630	3.12	53	6	ND	1	49	.2	2	2	18	1.01	.005	2	1034	6.89	11	.01	2	.28	.01	.01	1	3
D 98580	1	6	4	19	.1	1293	51	483	3.45	361	7	ND	1	7	.2	12	2	17	.22	.004	2	490	16.93	6	.01	2	.19	.01	.01	1	92
D 98581	1	9	3	18	.1	1046	50	465	3.83	403	5	ND	1	9	.2	2	2	23	.39	.005	2	760	17.58	3	.01	3	.25	.01	.01	1	70
D 98641	1	13	2	27	.1	1294	68	816	4.08	34	5	ND	2	3	.2	2	2	11	.05	.008	2	641	13.39	26	.01	2	.15	.01	.01	1	3
D 98642	1	6	2	22	.1	1068	63	708	3.57	12	5	ND	1	3	.3	2	2	16	.37	.005	2	678	14.62	15	.01	2	.11	.01	.01	1	4
D 98644	1	119	3	31	.1	75	18	339	2.93	2	5	ND	1	17	.2	2	2	78	.90	.052	2	35	1.30	8	.22	2	1.53	.10	.05	1	1
D 98645	1	74	2	34	.1	47	17	353	3.07	2	5	ND	1	37	.2	2	2	88	1.29	.050	2	25	1.11	7	.24	2	2.12	.17	.04	1	1
D 98647	1	9	2	83	.1	87	34	1073	5.97	8	5	ND	1	41	.4	2	2	120	1.70	.096	3	107	4.08	24	.02	2	3.19	.01	.01	1	3
D 98648	1	75	10	23	.1	26	7	1757	1.17	2	5	ND	1	3	.2	2	2	55	.06	.015	3	13	.16	73	.01	2	.25	.01	.06	1	3
D 98649	1	19	2	24	.1	848	48	852	3.20	167	5	ND	1	23	.2	2	2	3	.75	.015	2	255	9.45	20	.01	6	.08	.01	.01	1	4
D 98650	1	13	2	68	.1	1490	77	1038	3.88	136	6	ND	1	9	.2	8	2	5	.28	.034	2	322	9.77	67	.01	6	.12	.01	.01	1	4
A 98650	1	26	2	26	.1	1364	66	515	3.71	123	5	ND	2	5	.2	2	2	21	.11	.010	2	911	11.46	7	.01	5	.45	.01	.01	1	1
STANDARD C/AU-R	18	56	36	128	7.0	71	33	932	3.82	38	20	7	38	54	17.5	15	23	55	.43	.098	35	56	.80	171	.08	35	1.75	.06	.14	13	470

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 14 1991

DATE REPORT MAILED: Aug 26/91.

SIGNED BY: C. Leung, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

28 1991



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Au**	Pt**	Pd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb	ppb	ppb
D 98643	1	47	2	13	.1	1143	48	396	2.57	5	5	ND	1	1	.2	2	2	5	.03	.002	2	174	11.69	14	.01	3	.10	.01	.01	1	5	3	5
D 98646	1	65	2	14	.1	1365	63	551	4.03	2	5	ND	1	1	.3	2	7	24	.40	.003	2	1194	14.91	1	.01	14	.53	.01	.01	1	4	10	7

WHOLE ROCK ICP ANALYSIS

Minnova Inc. PROJECT 671 File # 91-3139

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. NOMAT

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Sr	La	Zr	Y	Nb	RESIDUE	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	gm	%
D 98628	85.66	2.42	1.62	9.32	.04	.05	.05	.02	.05	.01	.946	35	10	2	13	5	20	.115	100.18
D 98629	66.91	1.07	4.90	26.25	.09	.05	.05	.02	.07	.02	.567	6	10	2	5	5	20	.231	99.91
D 98630	80.40	1.48	6.17	11.83	.01	.05	.05	.02	.06	.01	.339	28	10	2	43	5	20	.181	100.36
D 98631	85.61	.32	6.37	7.87	.02	.05	.05	.01	.02	.01	.110	5	10	6	5	5	20	.206	100.36
RE D 98631	84.91	.35	6.57	8.92	.01	.05	.05	.01	.03	.01	.118	14	10	2	5	5	20	.219	100.93
STANDARD SO-4	67.89	10.37	3.47	.92	1.60	1.32	2.00	.58	.22	.03	.007	779	190	33	289	25	20	-	88.61

.500 GRAM SAMPLES NOT LEACHED WITH 10% HCL, IGNITED RESIDUE. .1 GM RESIDUE ARE FUSED WITH 1.2 LIO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3.
DATA ARE CALC. TO RESIDUE.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 2 1991

DATE REPORT MAILED: Aug 13/91.

SIGNED BY.....*C. Leong*.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

AUG 21 1991

Ansd



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-2938 Page 101
 3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: *[Signature]*

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
A 98051	1	13	13	49	.2	368	37	919	3.86	5	5	ND	1	1	.2	2	2	29	.09	.003	2	1084	7.34	52	.01	2	.44	.01	.01	1	7
D 98127	1	7	10	27	.2	1106	67	863	4.51	42	5	ND	1	11	.2	2	2	24	.22	.005	2	748	15.89	16	.01	21	.22	.01	.01	1	2
D 98128	1	4	13	22	.1	1135	61	638	3.80	45	5	ND	1	2	.2	4	2	16	.04	.002	2	776	16.72	11	.01	5	.21	.01	.01	1	5
D 98129	1	8	9	21	.2	963	62	716	3.94	36	5	ND	1	2	.2	2	2	18	.05	.002	2	743	15.77	12	.01	6	.22	.01	.01	1	7
D 98130	1	7	5	22	.1	661	66	832	4.33	6	5	ND	1	2	.2	2	2	28	.05	.005	2	939	13.04	14	.01	12	.30	.01	.01	1	4
D 98131	1	14	6	48	.1	898	66	1167	4.45	15	5	ND	1	1	.2	2	2	24	.04	.005	2	887	13.08	42	.01	13	.36	.01	.01	1	4
D 98132	1	8	5	59	.1	936	67	1075	4.67	8	5	ND	1	1	.2	2	2	28	.34	.005	2	1116	15.55	41	.01	48	.52	.01	.01	1	6
D 98133	1	14	2	27	.2	997	60	839	3.87	30	5	ND	1	1	.2	2	2	21	.20	.004	2	880	16.55	19	.01	16	.45	.01	.01	1	49
D 98134	1	6	4	19	.1	1341	66	769	4.08	317	5	ND	1	3	.2	15	2	14	.16	.006	2	487	17.32	23	.01	9	.15	.01	.01	1	4
D 98135	1	5	4	18	.1	735	49	805	3.53	13	5	ND	1	1	.2	2	2	15	.12	.002	2	752	14.65	11	.01	13	.26	.01	.01	1	1
D 98136	1	8	4	24	.2	729	50	753	3.59	18	5	ND	1	1	.2	2	2	17	.13	.004	2	765	13.85	17	.01	10	.34	.01	.01	1	9
D 98137	1	16	4	15	.1	626	58	662	4.00	5	5	ND	1	2	.2	2	2	18	.15	.001	2	803	12.30	13	.01	2	.28	.01	.01	1	1
D 98138	1	10	2	12	.1	494	76	1068	4.28	5	5	ND	1	4	.2	2	2	12	.23	.001	2	701	11.48	15	.01	2	.13	.01	.01	1	1
D 98139	1	22	5	26	.1	365	47	552	3.97	5	5	ND	1	2	.2	2	2	25	.10	.003	2	1030	10.07	20	.01	4	.44	.01	.01	1	1
D 98140	1	26	2	27	.1	475	56	815	4.22	8	5	ND	1	4	.2	2	2	20	.21	.002	2	869	9.70	19	.01	2	.31	.01	.01	1	2
D 98141	1	20	5	16	.1	480	45	697	3.77	5	5	ND	1	3	.2	2	2	20	.20	.001	2	829	11.74	9	.01	2	.33	.01	.01	1	1
D 98142	1	25	7	18	.2	498	44	573	3.70	9	5	ND	1	4	.2	2	2	24	.29	.001	2	958	10.94	9	.01	3	.52	.01	.01	1	3
D 98143	1	15	3	13	.2	451	46	641	3.81	4	5	ND	1	5	.2	2	2	26	.33	.001	2	1031	10.14	7	.01	3	.47	.01	.01	1	1
D 98144	1	13	4	16	.1	332	39	678	3.66	2	5	ND	1	3	.2	2	2	22	.24	.001	2	823	8.81	14	.01	3	.33	.01	.01	1	1
D 98145	1	10	3	20	.2	432	53	772	3.91	6	5	ND	1	10	.2	2	2	25	.65	.001	2	1081	9.71	11	.01	2	.49	.01	.01	1	1
D 98146	1	7	3	16	.2	503	51	911	3.81	6	5	ND	1	15	.2	2	2	14	.52	.002	2	774	11.90	11	.01	3	.29	.01	.01	1	1
D 98147	1	10	6	22	.2	1039	54	586	3.98	49	5	ND	1	7	.2	2	2	15	.25	.001	2	628	11.17	12	.01	5	.28	.01	.01	1	3
D 98148	1	20	3	22	.2	716	55	620	4.30	32	5	ND	1	9	.2	2	2	25	.41	.004	2	1204	10.40	17	.01	3	.58	.01	.01	1	1
D 98149	1	19	3	16	.1	760	57	690	4.11	33	5	ND	1	9	.2	2	2	20	.50	.001	2	1070	10.27	14	.01	2	.53	.01	.01	1	1
D 98150	1	30	2	20	.1	807	61	824	4.53	43	5	ND	1	6	.2	2	2	26	.27	.004	2	1137	9.92	20	.01	2	.67	.01	.01	1	2
D 98163	1	17	2	21	.2	843	60	803	4.51	45	5	ND	1	7	.2	2	2	23	.36	.004	2	1186	9.83	20	.01	3	.67	.01	.01	1	1
D 98167	1	12	4	24	.1	807	55	951	4.70	36	5	ND	1	4	.2	2	2	29	.25	.005	2	1172	11.40	23	.01	4	.65	.01	.01	1	2
D 98168	1	11	2	17	.1	521	49	872	4.44	14	5	ND	1	3	.3	2	2	24	.14	.005	2	867	10.31	18	.01	3	.45	.01	.01	1	1
D 98169	1	8	2	47	.3	459	46	1233	4.03	6	5	ND	1	5	.2	2	2	29	.32	.005	2	1028	8.99	64	.01	4	.55	.01	.01	1	1
D 98170	1	20	3	39	.1	328	35	905	3.86	6	5	ND	1	8	.2	3	2	24	.36	.025	3	604	6.38	45	.01	3	.83	.01	.06	1	4
D 98172	1	7	2	16	.2	573	43	594	3.43	24	5	ND	1	13	.2	14	2	11	.42	.004	2	683	10.80	13	.01	2	.33	.01	.01	1	1
D 98667	1	14	5	19	.6	1357	64	621	3.66	2111	5	ND	1	2	.2	29	2	16	.12	.002	2	413	15.27	18	.01	6	.12	.01	.02	1	550
D 98668	1	9	2	21	.3	1034	58	644	4.73	2361	5	ND	1	2	.2	17	2	20	.19	.004	2	770	14.29	20	.01	10	.28	.01	.01	1	460
D 98669	1	6	3	17	.4	1032	53	634	3.70	880	5	ND	1	2	.2	15	2	16	.27	.001	2	633	14.48	11	.01	11	.20	.01	.01	1	240
D 98670	1	12	4	14	.5	1063	53	502	3.55	1032	5	ND	1	2	.2	19	2	18	.24	.001	2	593	14.62	10	.01	9	.23	.01	.02	1	540
D 98671	1	6	3	14	.2	743	46	616	4.57	117	5	ND	1	3	.2	2	2	22	.47	.001	2	913	13.33	8	.01	8	.40	.01	.01	1	11
STANDARD C/AU-R	18	62	44	133	7.3	69	32	1045	3.99	41	19	6	39	52	18.7	15	18	57	.48	.090	39	57	.88	178	.09	34	1.90	.06	.15	11	480

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB. - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 28 1991

DATE REPORT MAILED: *July 31/91*

SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
D 98672	1	10	2	35	.2	957	74	969	5.08	19	5	ND	1	2	.2	2	2	24	.15	.004	2	1267	16.23	22	.01	59	.40	.01	.01	1	15
D 98673	1	13	4	37	.3	1230	82	809	4.78	32	5	ND	1	1	.2	2	2	24	.15	.004	2	1179	18.25	16	.01	70	.46	.01	.01	1	6
D 98674	1	6	2	26	.3	828	52	779	3.71	303	5	ND	1	2	.2	3	2	20	.28	.004	2	868	13.76	25	.01	14	.35	.01	.01	1	4
D 98675	1	2	3	22	.1	557	43	989	3.29	8	5	ND	1	1	.2	2	2	21	.42	.002	2	1008	12.09	26	.01	8	.43	.01	.01	1	9
D 98676	1	6	2	19	.5	1059	61	721	4.25	1706	5	ND	1	3	.2	19	2	21	.30	.002	2	661	15.81	17	.01	12	.25	.01	.02	1	430
D 98677	1	8	5	18	.5	1425	72	668	4.05	2288	5	ND	1	2	.2	20	2	10	.09	.002	2	395	17.73	13	.01	8	.10	.01	.01	1	790
D 98678	1	26	2	18	.3	1410	66	746	3.90	1060	5	ND	1	4	.2	62	2	14	.33	.002	2	458	16.14	20	.01	9	.19	.01	.01	1	200
D 98679	1	14	3	22	.5	1254	60	827	3.94	1645	5	ND	1	3	.2	52	2	15	.22	.003	2	339	15.15	23	.01	6	.08	.01	.01	1	290
D 98680	1	5	5	15	.1	1052	52	638	2.68	160	5	ND	1	1	.2	3	2	5	.08	.002	2	183	17.16	6	.01	8	.10	.01	.01	1	17
D 98681	1	18	3	15	.5	1220	57	476	3.11	1057	5	ND	1	1	.2	22	2	6	.07	.002	2	252	18.11	6	.01	7	.06	.01	.01	1	430
D 98682	1	26	2	15	.7	1165	61	630	3.81	1737	5	ND	1	1	.2	24	2	9	.09	.002	2	274	19.04	7	.01	8	.06	.01	.01	1	810
D 98683	1	17	4	14	.4	1109	61	558	3.31	1247	5	ND	1	2	.2	30	2	5	.04	.002	2	207	18.76	7	.01	8	.04	.01	.01	1	550
D 98684	1	11	2	15	.2	890	54	763	2.74	215	5	ND	1	1	.2	4	2	7	.04	.002	2	253	17.67	19	.01	6	.12	.01	.01	1	50
D 98685	1	14	3	20	.3	1310	61	809	3.29	350	5	ND	1	3	.2	26	2	10	.08	.003	2	309	18.71	28	.01	9	.10	.01	.01	1	39
D 98686	1	20	2	20	.2	429	44	694	4.05	18	5	ND	1	4	.2	2	2	24	.33	.001	2	1033	11.03	13	.01	2	.47	.01	.01	1	7
D 98687	1	9	2	41	.3	728	57	1047	4.87	178	5	ND	1	6	.2	2	2	64	.23	.015	2	371	11.74	35	.01	5	1.57	.01	.01	1	83
D 98688	1	17	2	45	.2	953	66	1003	3.78	95	5	ND	1	6	.2	2	2	17	.14	.007	2	691	8.24	48	.01	2	.39	.01	.01	1	38
D 98689	1	10	2	51	.2	1088	67	1460	3.96	71	5	ND	1	4	.2	4	2	13	.12	.011	2	637	10.45	74	.01	2	.23	.01	.01	1	21
D 98690	1	10	2	64	.2	973	67	1453	3.70	60	5	ND	1	4	.2	2	2	11	.11	.008	2	559	8.17	83	.01	2	.20	.01	.01	1	12
D 98691	1	7	2	34	.1	705	56	691	3.23	35	5	ND	1	2	.2	2	2	10	.08	.002	2	570	7.74	39	.01	2	.21	.01	.01	1	8
D 98692	1	10	2	44	.1	1087	62	863	4.04	18	5	ND	1	1	.2	3	2	12	.06	.006	2	638	8.73	21	.01	2	.23	.01	.01	1	10
D 98693	1	10	2	27	.4	938	54	805	3.52	15	5	ND	1	2	.4	3	2	10	.06	.004	2	441	8.43	12	.01	4	.19	.01	.01	1	8
D 98694	1	8	2	55	.2	1284	64	1696	3.85	105	5	ND	1	2	.2	3	2	13	.06	.009	2	637	14.23	97	.01	4	.26	.01	.01	1	16
D 98695	1	16	2	46	.3	1126	50	1768	3.54	11	5	ND	1	2	.2	2	2	12	.04	.009	2	704	12.78	97	.01	7	.28	.01	.01	1	2
D 98696	1	8	2	40	.3	1375	55	1161	3.54	15	5	ND	1	2	.2	2	2	12	.06	.004	2	574	13.86	53	.01	2	.26	.01	.01	1	2
D 98697	1	6	2	48	.2	1249	59	1074	3.70	33	5	ND	1	2	.2	2	2	13	.10	.005	2	754	9.62	64	.01	2	.26	.01	.01	1	1
D 98698	1	10	2	48	.2	1032	64	1082	4.38	10	5	ND	1	2	.2	3	2	18	.07	.008	2	713	11.88	60	.01	2	.30	.01	.01	1	2
D 98699	1	13	2	67	.3	601	50	795	4.20	3	5	ND	1	1	.2	2	2	35	.04	.006	2	1290	6.39	42	.01	4	.56	.01	.01	1	1
D 98700	1	6	2	71	.2	529	47	1093	4.07	2	5	ND	1	1	.2	2	2	32	.03	.008	2	915	6.39	55	.01	5	.45	.01	.01	1	2
STANDARD C/AU-R	19	65	39	134	7.1	70	31	1048	3.99	41	16	6	40	52	18.6	16	18	57	.50	.090	40	58	.88	178	.09	34	1.91	.06	.15	13	450

WHOLE ROCK ICP ANALYSIS



Minnova Inc. PROJECT 671 File # 91-2801
 3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOMAT

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Sr	La	Zr	Y	Nb	RESIDU	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	gm	%
D 98620	91.07	4.42	2.52	.93	.20	.09	.21	.05	.03	.01	.531	12	10	2	6	5	20	.146	100.06
D 98621	64.56	.23	7.72	26.29	.04	.05	.08	.01	.07	.02	.459	5	10	6	5	5	20	.225	99.48

.500 GRAM SAMPLES HOT LEACHED WITH 10% HCL, IGNITED RESIDUE. .1 GM RESIDUE ARE FUSED WITH 1.2 LIBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3.
 DATA ARE CALC. TO RESIDUE.

- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 23 1991

DATE REPORT MAILED:

July 31/91

SIGNED BY.....*C. Long*.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

AUG 1 1991



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-2800

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
D 98121	1	9	3	22	.1	1667	65	652	3.80	32	5	ND	1	1	.2	3	2	1	.01	.001	2	193	14.59	5	.01	48	.02	.01	.01	1	10
D 98122	1	7	3	22	.1	1698	67	569	4.18	22	5	ND	1	1	.2	4	2	2	.01	.001	2	291	15.05	3	.01	92	.02	.01	.01	1	10
D 98123	1	10	2	21	.1	1850	64	395	4.34	6	5	ND	1	1	.2	2	2	1	.01	.002	2	143	12.59	2	.01	38	.02	.01	.01	1	2
D 98124	1	11	6	22	.1	1861	66	475	4.09	8	5	ND	1	1	.2	2	2	2	.01	.001	2	266	14.14	3	.01	71	.04	.01	.01	1	4
D 98125	1	9	4	15	.1	1109	56	587	3.94	904	5	ND	1	4	.2	40	2	15	.44	.002	2	425	14.48	14	.01	6	.09	.01	.03	1	52
D 98126	1	9	6	19	.1	1149	56	770	3.54	1001	5	ND	1	2	.2	17	2	6	.09	.002	2	269	16.34	21	.01	2	.06	.01	.01	1	150
D 98239	1	2	4	12	.1	952	46	407	2.87	39	5	ND	1	1	.3	12	2	1	.02	.002	2	125	14.45	5	.01	6	.02	.01	.01	1	1
D 98240	1	5	6	15	.1	838	49	457	3.48	195	5	ND	1	1	.3	535	2	6	.09	.002	2	181	13.82	10	.01	8	.03	.01	.02	1	54
D 98241	1	15	5	16	.1	1144	54	503	3.70	934	5	ND	1	3	.2	38	2	12	.26	.002	2	313	14.82	15	.01	3	.08	.01	.03	1	109
D 98242	1	5	2	27	.1	876	48	687	4.08	29	5	ND	1	3	.3	4	2	23	.47	.003	2	993	11.61	20	.01	3	.40	.01	.01	1	12
D 98243	1	8	4	33	.1	1195	62	893	4.58	238	5	ND	1	5	.2	11	2	23	.64	.007	2	805	13.28	45	.01	8	.31	.01	.02	1	2
D 98244	1	15	5	19	.1	1326	57	677	4.06	401	5	ND	1	3	.2	18	2	10	.12	.003	2	360	16.11	18	.01	5	.06	.01	.01	1	13
D 98245	1	21	2	45	.1	1085	54	759	6.00	17	5	ND	1	2	.2	11	2	33	.88	.006	2	1166	10.77	49	.01	23	.50	.01	.01	1	8
D 98246	1	39	6	28	.1	1106	51	590	4.09	9	5	ND	1	2	.2	8	2	29	.84	.007	2	1107	12.62	24	.01	10	.58	.01	.01	1	1
D 98247	1	24	3	33	.1	751	48	949	5.23	44	5	ND	1	3	.2	26	2	31	.63	.007	2	1236	9.99	33	.01	2	.56	.01	.01	1	6
D 98248	1	40	5	29	.1	1195	54	537	4.14	430	5	ND	1	7	.2	1356	2	17	.66	.004	2	680	13.00	25	.01	2	.32	.01	.03	1	52
D 98249	1	43	2	25	.1	1392	69	595	4.99	141	5	ND	1	7	.2	82	2	23	.52	.002	2	913	11.33	25	.01	3	.38	.01	.02	1	17
D 98250	1	24	4	27	.1	1057	59	789	4.93	132	5	ND	1	10	.2	38	2	26	.56	.003	2	1042	11.01	26	.01	3	.52	.01	.02	1	47
D 98251	1	28	2	18	.1	495	45	685	4.54	19	5	ND	1	4	.2	2	2	29	.34	.002	2	1261	8.48	14	.01	2	.51	.01	.01	1	2
D 98252	1	21	3	21	.1	745	51	608	4.21	19	5	ND	1	6	.2	2	2	23	.38	.002	2	1029	11.24	19	.01	2	.50	.01	.01	1	3
D 98253	1	7	3	20	.1	910	49	646	4.20	57	5	ND	1	2	.2	23	2	26	.68	.001	2	1086	14.48	20	.01	14	.61	.01	.01	1	2
D 98254	1	5	2	22	.1	1045	60	890	4.23	189	5	ND	1	3	.2	7	2	25	.50	.002	2	890	13.45	29	.01	11	.45	.01	.01	1	4
D 98255	1	3	3	23	.1	927	55	757	4.70	77	5	ND	1	2	.2	4	2	24	.57	.003	2	1021	13.87	26	.01	13	.52	.01	.01	1	1
D 98256	1	8	5	18	.2	1232	62	714	4.62	694	5	ND	1	5	.2	15	2	22	.32	.003	2	584	16.46	20	.01	7	.22	.01	.02	1	3
D 98257	1	7	5	15	.3	1310	60	660	4.57	2048	5	ND	1	5	.2	93	2	19	.23	.002	2	513	15.17	13	.01	9	.14	.01	.02	1	460
D 98258	1	7	6	17	.1	1302	58	738	4.35	1596	5	ND	1	4	.2	53	2	18	.37	.002	2	624	16.64	14	.01	8	.22	.01	.02	1	383
D 98259	1	5	6	16	.2	1250	56	696	4.12	1155	5	ND	1	2	.2	46	2	18	.25	.002	2	607	15.98	14	.01	7	.22	.01	.02	1	273
D 98260	1	24	5	21	.3	1149	55	702	3.96	622	5	ND	1	3	.3	39	2	18	.52	.004	2	458	14.83	18	.01	6	.21	.01	.03	1	12
D 98261	1	8	5	16	.3	1207	56	685	4.57	1733	5	ND	1	4	.2	118	2	22	.35	.003	2	468	15.89	21	.01	8	.15	.01	.03	1	757
D 98262	1	18	4	17	.1	1359	58	560	4.59	507	5	ND	1	4	.2	64	2	24	.42	.002	2	518	14.60	26	.01	8	.20	.01	.03	1	78
D 98263	1	6	6	17	.3	1314	59	694	4.37	1971	5	ND	1	3	.2	34	2	20	.29	.002	2	528	14.99	18	.01	8	.16	.01	.02	1	482
D 98264	1	16	2	14	.1	1067	51	611	3.79	635	5	ND	1	4	.2	39	2	19	.91	.002	2	433	15.22	15	.01	6	.16	.01	.02	1	15
D 98265	1	24	4	11	.1	594	49	579	3.84	32	5	ND	1	1	.2	3	2	1	.09	.002	2	108	12.28	12	.01	15	.03	.01	.01	1	8
D 98266	1	32	5	13	.1	854	67	725	4.56	37	5	ND	1	2	.2	2	2	1	.04	.003	2	143	11.72	21	.01	19	.04	.01	.01	1	1
STANDARD C/AU-R	19	57	41	133	7.1	70	33	1053	3.99	39	18	5	38	52	18.6	15	19	55	.49	.090	38	58	.88	178	.09	33	1.90	.06	.15	12	471

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 23 1991 DATE REPORT MAILED: *July 29/91* SIGNED BY: *C. Leung* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

91 1991

WHOLE ROCK ICP ANALYSIS



Minnova Inc. PROJECT 671 File # 91-2712
 3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Sr ppm	La ppm	Zr ppm	Y ppm	Nb ppm	RESIDUE gm	SUM %
A 98002	70.62	.66	3.70	23.19	.05	.05	.05	.02	.06	.01	.345	9	10	6	5	5	20	.256	98.73
A 98004	85.99	1.76	4.07	8.05	.12	.05	.05	.08	.04	.01	.425	118	10	2	7	5	20	.166	100.56
A 98022	94.65	2.14	.92	1.22	.10	.05	.11	.06	.01	.01	.609	16	10	13	7	5	20	.277	99.89
D 98606	66.94	1.53	4.82	25.23	.03	.05	.05	.03	.05	.01	.472	5	10	5	9	5	20	.247	99.11
D 98607	89.70	2.53	1.14	6.39	.03	.05	.07	.05	.01	.01	.408	31	10	2	5	5	20	.190	100.34
D 98608	70.22	.90	4.86	23.36	.04	.05	.05	.03	.04	.01	.457	5	10	11	18	5	27	.263	99.92
D 98615	70.79	.76	5.99	21.25	.03	.05	.05	.02	.05	.02	.372	5	10	25	33	5	20	.206	99.34
D 98616	92.37	1.92	2.38	2.57	.10	.05	.05	.03	.01	.01	.608	17	10	2	6	5	20	.140	99.99
D 98617	72.22	.49	5.86	20.02	.05	.05	.05	.01	.05	.01	.452	8	10	2	5	5	20	.223	99.18
D 98618	58.96	12.27	8.62	5.31	8.26	4.65	.05	1.59	.02	.15	.023	16	140	2	107	34	49	.387	99.90
D 98619	97.44	1.37	.29	.37	.04	.05	.06	.02	.01	.01	.293	16	10	5	32	5	20	.306	99.89
STANDARD SO-4	68.33	10.15	3.36	.85	1.50	1.29	2.04	.55	.21	.08	.007	794	190	33	291	22	20	-	88.57

.5 GRAM SAMPLES NOT LEACHED WITH 10% HCL, IGNITED RESIDUE. .1 GM RESIDUE ARE FUSED WITH 1.2 GRAM OF LIBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3. DATA ARE CALC. TO RESIDUE.

- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 21 1991 DATE REPORT MAILED: *July 30/91* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

AUG 2 1991



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-2711

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. HOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 98001	2	10	2	39	.1	1657	71	832	4.07	20	7	ND	1	3	.7	2	2	20	.31	.004	2	1026	18.79	9	.01	40	.41	.01	.01	1	5
A 98003	1	16	4	20	.1	853	47	433	3.59	126	5	ND	1	3	.4	3	2	14	.14	.003	2	1058	12.18	9	.01	7	.47	.01	.01	1	52
A 98005	2	13	2	22	.4	1395	55	571	4.34	543	5	ND	1	4	.6	41	2	14	.17	.006	2	494	11.31	14	.01	4	.12	.01	.03	1	119
A 98006	1	11	2	20	.3	1016	47	649	3.52	827	5	ND	1	4	.7	14	2	14	.31	.004	2	557	11.45	13	.01	4	.19	.01	.02	1	890
A 98007	1	10	3	22	.1	949	49	733	3.87	191	5	ND	1	4	.7	5	2	13	.49	.004	2	683	11.63	14	.01	4	.22	.01	.01	1	44
A 98008	1	7	4	23	.1	926	46	707	3.43	359	5	ND	1	3	.3	11	2	12	.31	.005	2	578	11.06	13	.01	5	.20	.01	.01	1	69
A 98009	1	11	2	20	.1	1042	47	602	3.81	594	5	ND	1	3	.3	17	2	12	.20	.003	2	573	12.02	7	.01	6	.22	.01	.01	1	186
A 98010	1	7	2	22	.2	1039	47	677	3.54	674	5	ND	1	4	.2	14	2	11	.42	.004	2	510	12.04	10	.01	4	.18	.01	.01	1	134
A 98011	1	6	2	20	.2	1314	57	712	3.92	568	5	ND	1	3	.5	30	2	13	.30	.003	2	540	12.11	12	.01	4	.16	.01	.01	1	148
A 98012	1	8	2	21	.3	1287	52	473	3.48	864	5	ND	1	5	.6	35	2	14	.25	.003	2	490	12.90	11	.01	5	.14	.01	.02	1	410
A 98013	1	12	2	24	.1	1283	55	586	3.76	348	5	ND	1	3	.6	12	2	14	.04	.003	2	593	12.20	8	.01	3	.24	.01	.01	1	81
A 98014	1	11	2	25	.1	1341	53	356	3.97	168	5	ND	1	3	.3	2	2	18	.06	.004	2	806	11.73	8	.01	4	.34	.01	.01	1	27
A 98015	1	8	2	22	.2	1093	49	702	3.37	217	5	ND	1	5	.2	13	2	9	.62	.003	2	590	11.48	7	.01	2	.20	.01	.01	1	45
A 98017	1	15	4	31	.6	2016	83	903	5.90	816	7	ND	1	4	.7	47	2	20	.10	.004	2	622	8.44	31	.01	5	.14	.01	.02	1	780
A 98018	1	12	2	26	.6	1570	62	640	4.37	2709	5	8	1	4	.9	51	2	14	.24	.003	2	453	11.63	13	.01	4	.07	.01	.01	1	7780
A 98019	2	11	2	26	.5	878	38	600	3.01	355	5	ND	1	2	.2	12	2	9	.10	.004	2	308	8.39	19	.01	2	.06	.01	.02	1	250
A 98020	2	8	5	19	.4	1155	50	613	3.58	1467	5	ND	1	5	.6	25	2	13	.32	.004	2	424	12.69	7	.01	5	.08	.01	.02	1	790
A 98021	1	8	2	24	.1	1368	59	629	3.85	483	5	ND	1	5	.9	20	2	12	.43	.004	2	405	13.23	15	.01	3	.06	.01	.01	1	110
A 98022	1	8	2	23	.1	1189	52	765	3.88	142	5	ND	1	3	.6	5	2	11	.60	.004	2	535	13.01	9	.01	2	.12	.01	.01	1	15
A 98023	1	12	2	24	.5	1340	59	505	3.76	441	5	ND	1	7	.3	10	2	12	.25	.003	2	484	12.69	11	.01	3	.10	.01	.03	1	96
A 98024	1	13	2	32	.2	1864	70	822	5.07	142	6	ND	1	5	.7	61	2	18	.14	.005	2	733	11.01	28	.01	5	.16	.01	.03	1	21
A 98025	1	11	2	33	.1	2106	81	1182	6.03	140	8	ND	1	6	.7	42	2	15	.22	.004	2	626	10.61	28	.01	4	.19	.01	.02	1	140
A 98026	1	6	2	22	.1	1263	49	607	3.39	136	5	ND	1	2	.5	3	2	8	.33	.004	2	354	13.39	5	.01	2	.05	.01	.01	1	14
A 98027	1	10	2	24	.1	898	48	794	3.65	14	5	ND	1	1	.4	2	2	11	.30	.005	2	546	12.66	14	.01	2	.23	.01	.01	1	4
A 98028	1	7	2	19	.1	1037	46	596	3.14	37	5	ND	1	1	.5	2	2	9	.23	.003	2	502	13.92	3	.01	2	.15	.01	.01	1	4
A 98029	1	9	2	20	.1	1036	48	589	3.22	4	5	ND	1	1	.4	2	2	9	.19	.003	2	555	13.82	4	.01	2	.17	.01	.01	1	2
A 98030	1	8	2	19	.1	938	45	555	3.64	20	5	ND	1	1	.6	2	2	11	.77	.004	2	545	12.32	8	.01	2	.20	.01	.01	1	2
D 73	1	24	2	42	.1	1577	72	465	3.81	16	5	ND	1	8	.8	2	2	22	.34	.003	2	1317	14.15	18	.01	26	.44	.01	.01	1	7
D 74	1	8	3	20	.1	681	46	550	3.10	3	5	ND	1	2	.3	2	2	7	.08	.003	2	485	8.99	5	.01	2	.19	.01	.01	1	1
D 98605	2	23	2	29	.1	1308	62	407	3.73	34	5	ND	1	4	.6	2	2	12	.10	.002	2	605	14.20	16	.01	7	.10	.01	.02	1	11
D 98609	1	11	2	20	.4	951	50	526	3.84	4742	5	2	1	3	.6	24	2	11	.12	.002	2	433	13.47	5	.01	4	.10	.01	.03	1	1580
D 98610	1	11	2	22	.1	1147	47	571	3.28	424	5	ND	1	12	.6	17	2	16	.67	.003	2	476	14.25	10	.01	4	.12	.01	.04	1	36
D 98611	2	3	2	21	.1	1303	55	538	4.09	587	5	2	1	3	.6	57	2	17	.43	.003	2	557	14.26	18	.01	5	.12	.01	.03	1	250
D 98612	1	11	2	19	.1	1188	45	372	3.48	1491	5	ND	1	2	.7	20	2	16	.32	.002	2	605	14.26	7	.01	6	.19	.01	.03	1	200
D 98613	1	4	2	19	.1	935	46	471	3.72	41	5	ND	1	3	.6	2	2	15	.14	.003	2	955	13.52	4	.01	2	.47	.01	.01	1	4
D 98614	1	7	2	19	.1	1382	56	536	4.38	201	5	ND	1	4	.5	141	2	19	.43	.004	2	568	14.09	10	.01	7	.25	.01	.01	1	11
STANDARD C/AU-R	19	60	39	131	7.5	70	32	1047	4.03	43	21	8	40	52	17.4	15	20	56	.49	.089	39	59	.99	179	.09	31	1.91	.06	.15	12	450

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 21 1991

DATE REPORT MAILED: July 24/91

SIGNED BY: C. Leong, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

JUL 29 1991



WHOLE ROCK ICP ANALYSIS



Minnova Inc. PROJECT 671 File # 91-2707

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MONAT

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Sr	La	Zr	Y	Nb	RESIDUE	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	gm	%
D 98071	66.15	.81	6.19	25.86	.05	.06	.05	.03	.07	.09	.407	5	10	12	5	5	20	.342	99.72
D 98099	63.49	.52	11.28	24.00	.02	.05	.05	.01	.08	.01	.483	5	10	2	7	5	20	.187	99.89
D 98100	96.76	.51	1.02	.62	.06	.05	.06	.02	.02	.01	.787	5	10	10	5	5	20	.110	99.86
D 98601	91.77	3.75	2.23	.87	.12	.05	.86	.06	.02	.01	.656	6	10	9	5	5	20	.156	100.38
D 98602	67.79	1.44	7.77	21.87	.04	.05	.05	.03	.07	.01	.473	5	10	2	5	5	20	.258	99.52

.5 GM SAMPLES HOT LEACHED WITH 10% HCL, IGNITED RESIDUE. .1 GM RESIDUE ARE FUSED WITH 1.2 GRAM OF LiBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3.
DATA ARE CLAC. TO RESIDUE.

- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 19 1991 DATE REPORT MAILED: *July 30/91* SIGNED BY: *C. Leong* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

AUG 2 1991



GEOCHEMICAL ANALYSIS CERTIFICATE

Minnova Inc. PROJECT 671 File # 91-2480 Page 1

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb
1BMSF028	1	20	3	71	.1	839	101	1496	7.43	53	5	ND	1	10	.2	3	2	74	.17	.059	2	1301	7.69	87	.09	20	1.42	.01	.04	1	13
1BMSF029	1	44	2	48	.1	1237	82	1215	5.68	50	5	ND	1	9	.3	8	2	58	.18	.037	4	1036	10.40	72	.08	27	1.57	.02	.05	2	21
1BMSF030	1	15	6	88	.1	674	109	1337	11.10	27	5	ND	1	14	.7	11	2	80	.09	.059	4	1226	3.39	124	.05	5	1.11	.02	.03	2	4
1BMSF031	1	13	4	88	.2	454	42	533	7.91	100	5	ND	2	12	.2	10	2	85	.16	.030	5	1023	2.99	46	.12	5	1.35	.01	.06	1	6
1BMSF032	1	19	2	48	.1	1265	72	805	6.24	127	5	ND	1	4	.5	14	2	51	.11	.045	2	1600	14.26	30	.02	31	1.25	.01	.02	1	53
1BMSF033	1	32	2	92	.2	1122	76	1011	6.90	120	5	ND	1	8	.3	5	2	61	.15	.069	4	1247	8.40	60	.05	13	1.81	.01	.06	1	37
1BMSF034	1	29	2	111	.1	1191	84	2275	7.50	259	5	ND	1	12	.3	6	2	73	.25	.060	4	1208	6.23	89	.05	9	1.67	.01	.06	1	18
1BMSF035	1	54	2	102	.5	1862	170	6346	9.55	1144	5	ND	1	15	1.0	16	2	78	.24	.148	9	1413	8.64	173	.03	8	2.21	.01	.08	1	51
1BMSF036	1	77	2	84	.1	863	72	1192	6.07	481	5	ND	1	18	.8	10	2	62	.36	.060	6	950	6.01	81	.10	10	2.24	.01	.05	1	58
1BMSF037	1	39	2	83	.1	463	44	697	4.79	40	5	ND	2	15	.2	3	2	62	.22	.023	4	503	4.50	102	.16	8	1.98	.01	.09	1	8
1BMSF038	1	40	2	55	.1	894	70	1085	5.48	88	5	ND	1	11	.3	4	2	51	.21	.045	4	945	8.39	40	.08	18	1.38	.01	.06	1	19
1BMSF039	1	47	2	82	.1	244	27	508	6.33	33	5	ND	1	11	.5	7	2	97	.13	.031	4	389	2.53	112	.29	3	2.64	.02	.05	1	8
1BMSF040	1	69	4	93	.2	307	39	884	8.74	920	5	ND	1	14	.7	19	2	110	.14	.079	7	786	1.30	159	.08	2	2.05	.02	.07	1	300
1BMSF041	1	54	2	94	.2	484	53	812	6.20	125	5	ND	1	16	.6	6	2	74	.20	.031	6	769	4.90	136	.11	5	2.05	.02	.06	1	52
1BMSF042	1	17	5	73	.1	362	38	466	7.41	76	5	ND	2	17	.3	7	2	98	.18	.012	6	826	2.83	99	.16	2	1.54	.02	.04	1	28
1BMSF043	1	13	6	67	.1	319	40	500	7.54	64	5	ND	2	15	.2	7	2	92	.15	.013	7	777	1.66	98	.14	4	1.12	.02	.06	1	8
1BMSF044	1	21	5	63	.1	257	31	519	4.38	227	5	ND	1	14	.2	3	2	60	.17	.029	6	562	1.83	52	.07	3	1.13	.01	.05	1	20
1BMSF045	1	14	6	54	.3	197	19	322	3.25	97	7	ND	3	18	.3	2	2	64	.19	.012	7	321	1.58	97	.14	2	1.56	.01	.05	1	15
1BMSF046	1	23	4	83	.1	498	40	575	5.91	294	5	ND	1	22	.5	7	2	80	.33	.021	6	684	2.90	89	.13	5	1.56	.02	.05	1	11
1BMSF047	39	420	2	391	1.0	2217	129	17300	7.63	590	5	ND	1	18	1.2	20	2	72	.21	.127	37	1150	3.18	485	.04	5	3.40	.01	.08	1	650
1UMSF001	1	57	2	96	.3	166	22	1096	4.71	23	5	ND	1	14	.2	4	2	69	.24	.087	10	210	1.11	67	.23	3	2.18	.01	.06	1	29
1UMSF002	1	66	4	121	.3	115	23	1314	3.77	5	5	ND	1	31	.6	2	2	51	.65	.079	8	185	1.16	73	.14	5	2.15	.02	.10	1	5
1UMSF003	1	51	5	96	.5	209	25	930	6.87	6	5	ND	1	13	.8	2	2	108	.24	.105	5	521	1.55	82	.42	5	2.05	.02	.07	1	4
1UMSF004	1	114	5	107	.9	564	95	2311	7.25	28	5	ND	1	28	1.0	4	2	119	.45	.304	21	804	2.12	171	.03	3	3.61	.01	.11	1	3
1UMSF005	1	26	5	79	.3	176	27	897	3.98	6	5	ND	1	15	.4	2	2	64	.24	.124	7	381	1.34	95	.11	3	1.48	.01	.07	1	3
1UMSF006	1	28	4	64	.2	158	14	303	2.68	2	5	ND	1	17	.2	2	2	47	.26	.042	9	289	1.28	72	.22	4	1.86	.01	.04	1	3
1UMSF007	1	37	4	91	.1	299	21	433	3.43	2	5	ND	1	16	.2	2	2	48	.23	.052	8	378	2.04	78	.17	4	1.82	.01	.06	1	4
1UMSF008	2	208	6	81	.5	466	114	1976	5.71	9	5	ND	1	17	.4	3	2	98	.20	.140	22	898	1.51	146	.05	4	3.20	.01	.08	1	4
1UMSF009	1	66	7	108	.3	750	98	2812	8.09	75	5	ND	1	14	1.0	10	2	118	.18	.159	7	653	2.90	123	.05	3	2.40	.01	.08	1	2
1UMSF010	1	22	3	57	.1	594	31	356	4.37	2	5	ND	1	18	.3	7	2	47	.18	.034	10	551	5.47	69	.08	9	1.43	.01	.03	1	4
1UMSF011	1	27	2	44	.2	845	38	431	4.21	2	5	ND	2	15	.3	5	2	39	.18	.031	7	652	7.73	44	.08	12	1.08	.01	.04	1	3
1UMSF012	1	24	2	83	.1	1421	59	655	8.06	4	5	ND	1	7	.9	7	2	58	.08	.075	3	1826	13.00	45	.03	21	1.13	.01	.01	1	3
1UMSF013	1	17	4	83	.2	929	72	870	9.26	2	5	ND	1	11	.7	8	2	83	.12	.064	5	1237	5.98	84	.07	8	1.50	.01	.03	1	3
1UMSF014	1	20	2	80	.2	1394	120	1421	9.13	2	5	ND	1	6	.4	2	2	53	.08	.078	2	1684	13.10	55	.02	17	1.11	.01	.04	1	2
1UMSF015	1	18	2	79	.2	1360	93	1127	10.40	2	5	ND	1	5	.7	7	2	58	.07	.071	2	1804	11.83	50	.02	16	1.01	.01	.02	1	2
1UMSF016	1	21	3	59	.1	1320	77	768	5.94	4	5	ND	1	12	.6	4	2	41	.12	.059	4	1207	10.01	55	.03	8	1.04	.01	.02	1	2
STANDARD C/AU-S	18	63	37	129	7.3	74	32	1066	4.00	42	22	7	41	52	18.6	19	18	58	.47	.093	40	58	.85	182	.09	34	1.94	.07	.14	11	47

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-P3 SOIL P4-P5 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 11 1991 DATE REPORT MAILED: *July 17/91* SIGNED BY: *[Signature]* D. TOKE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1UMSF017	1	13	2	89	.1	658	54	646	7.59	3	5	ND	1	6	1.0	8	2	47	.07	.072	3	1426	7.67	37	.03	6	.85	.01	.04	1	2
1UMSF018	1	17	3	84	.1	606	64	545	6.01	9	5	ND	1	8	.8	7	2	45	.06	.045	5	955	5.68	49	.06	6	1.19	.01	.04	1	3
1UMSF019	1	23	3	65	.2	1047	45	539	6.17	7	5	ND	1	6	.6	7	2	43	.07	.072	4	1368	9.12	40	.04	8	.94	.01	.05	1	1
1UMSF020	1	16	3	80	.1	429	34	541	4.28	6	5	ND	1	10	.3	7	2	48	.09	.042	6	644	3.21	64	.10	4	1.15	.01	.03	1	1
1UMSF021	1	20	3	64	.2	230	23	509	4.60	11	5	ND	1	12	.3	5	2	62	.16	.053	4	401	1.78	99	.12	3	1.27	.01	.07	1	1
1UMSF022	1	28	4	51	.2	147	12	251	2.15	2	5	ND	1	8	.2	2	2	41	.12	.025	5	243	1.26	56	.15	3	1.29	.01	.04	1	1
1UMSF023	1	63	5	61	.4	116	16	375	4.31	7	5	ND	1	9	.5	2	2	59	.13	.062	5	234	.92	90	.26	3	1.71	.01	.06	1	3
1UMSF024	1	28	4	101	.2	921	46	629	6.71	6	5	ND	1	6	1.2	9	2	52	.07	.110	4	1461	11.64	57	.04	8	1.44	.01	.04	1	1
1UMSF025	1	24	2	104	.1	937	62	730	7.18	10	5	ND	1	5	1.2	9	2	47	.08	.069	3	1247	11.33	36	.03	7	1.39	.01	.04	1	1
1UMSF026	1	34	4	66	.2	1224	84	1164	6.15	8	5	ND	1	6	1.2	5	2	39	.08	.093	5	1364	12.03	73	.02	7	1.33	.01	.05	1	2
1UMSF027	1	15	2	65	.1	465	66	1089	7.86	5	5	ND	1	7	.8	7	2	62	.09	.071	6	1114	4.09	78	.05	3	.78	.01	.04	1	1
1UMSF028	1	14	4	66	.1	200	23	426	4.72	6	5	ND	1	10	.2	7	3	67	.11	.048	6	508	1.94	92	.15	4	1.26	.01	.03	1	1
1UMSF029	1	12	4	57	.1	111	14	337	3.12	3	5	ND	1	14	.2	2	2	60	.15	.039	5	286	.85	109	.13	2	1.05	.01	.04	1	1
1UMSF030	1	17	7	64	.1	258	26	910	3.60	7	5	ND	1	12	.2	4	5	48	.11	.049	8	369	1.64	89	.07	3	1.25	.01	.03	1	1
1UMSF031	1	9	5	47	.1	228	25	522	3.87	4	5	ND	1	10	.4	5	2	55	.09	.032	8	567	1.90	85	.09	2	.86	.01	.02	1	1
1UMSF032	1	15	2	63	.1	478	55	816	7.94	5	5	ND	1	9	1.2	8	2	75	.11	.071	4	817	3.51	61	.10	3	.86	.01	.03	1	1
1UMSF033	1	14	2	65	.1	602	56	639	8.17	10	5	ND	1	7	1.3	8	2	79	.11	.066	4	928	4.69	71	.09	8	1.00	.01	.03	1	1
1UMSF034	1	38	6	89	.1	1074	42	1033	5.29	10	5	ND	1	17	1.1	6	2	68	.26	.253	12	1354	5.39	151	.03	10	2.12	.01	.06	1	1
1UMSF035	1	20	4	92	.2	630	54	755	6.88	13	5	ND	1	12	1.3	5	2	55	.12	.071	7	971	5.40	60	.07	10	1.16	.01	.05	1	4
1UMSF036	1	18	2	49	.2	305	30	303	6.00	4	5	ND	2	11	.5	4	2	83	.13	.033	7	517	1.80	68	.18	3	.89	.01	.05	1	1
1UMSF037	1	59	2	88	.2	670	55	1598	5.94	20	5	ND	1	11	1.2	3	2	80	.24	.091	12	976	4.93	71	.05	6	1.61	.01	.06	1	1
1UMSF038	1	32	2	55	.1	224	24	401	6.24	9	5	ND	1	8	.9	7	2	90	.10	.052	4	458	1.62	66	.28	6	1.21	.01	.03	1	1
1UMSF039	2	215	4	73	.1	283	82	2119	5.59	19	5	ND	1	23	1.3	5	2	101	.36	.113	19	321	1.78	80	.04	3	3.18	.01	.05	1	1
1UMSF040	1	31	8	39	.2	32	5	106	1.04	2	5	ND	1	11	.2	2	6	33	.17	.025	9	147	.40	52	.14	2	1.02	.01	.05	1	1
1UMSF041	1	64	4	67	.1	194	23	534	4.22	8	5	ND	1	16	.4	6	2	55	.26	.070	18	344	1.61	76	.11	6	1.46	.01	.05	1	1
1UMSF042	1	29	7	55	.1	93	9	247	2.19	2	5	ND	1	15	.3	2	3	39	.20	.033	12	147	.84	117	.15	2	1.31	.01	.06	1	1
1UMSF043	1	20	8	51	.2	135	10	227	1.79	5	6	ND	1	15	.4	2	6	36	.14	.034	10	132	.76	99	.09	2	1.28	.01	.05	1	3
1UMSF044	1	15	5	54	.2	180	18	284	3.93	7	5	ND	1	13	.4	2	2	66	.12	.047	8	324	1.34	64	.09	2	1.00	.01	.04	1	4
1UMSF045	1	28	6	74	.2	264	36	802	4.44	6	5	ND	1	14	.7	5	2	61	.18	.049	10	538	2.40	104	.12	2	1.26	.01	.06	1	1
1UMSF045A	1	8	6	81	.1	152	28	1287	5.01	2	5	ND	1	8	.4	5	2	71	.08	.082	7	1011	1.86	166	.05	2	.89	.01	.04	1	1
1UMSF046	1	25	2	64	.1	563	39	463	5.98	7	5	ND	1	9	.4	6	2	50	.07	.062	4	785	5.56	48	.06	7	1.64	.01	.03	1	1
1UMSF047	1	19	3	51	.1	816	64	706	5.05	5	5	ND	1	8	.6	6	2	41	.09	.046	4	959	10.28	50	.04	9	1.34	.01	.05	1	1
1UMSF048	1	15	2	79	.1	383	49	639	7.37	6	5	ND	1	9	1.4	8	2	71	.10	.053	4	886	3.66	79	.12	3	1.29	.01	.04	1	5
1UMSF049	1	10	7	49	.1	182	20	309	4.47	5	5	ND	1	10	.5	3	2	73	.08	.036	7	476	1.76	100	.16	2	1.15	.01	.03	1	1
1UMSF050	1	16	16	75	.1	458	42	630	6.42	4	5	ND	1	9	1.0	3	2	72	.09	.057	4	655	4.28	97	.12	3	1.33	.01	.03	1	1
1UMSF051	1	16	2	80	.1	461	45	599	6.23	6	5	ND	1	10	.7	5	2	63	.09	.047	6	639	4.32	88	.10	4	1.33	.01	.02	1	1
STANDARD C/AU-S	18	56	37	126	6.9	70	31	990	3.87	41	18	7	35	49	18.3	17	17	55	.46	.084	37	59	.81	170	.08	34	1.78	.06	.14	12	46



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1UMSF052	1	20	2	65	.1	1381	105	1147	7.65	8	5	ND	1	7	.2	2	2	49	.08	.058	3	710	12.22	57	.07	8	1.06	.01	.03	1	1
1UMSF053	1	18	2	86	.1	538	50	685	6.23	2	5	ND	1	11	.2	2	2	63	.13	.076	5	799	4.92	68	.10	8	1.43	.01	.05	1	1
1UMSF054	1	22	2	84	.1	630	56	710	7.81	4	5	ND	1	12	.2	2	2	71	.13	.075	5	921	5.50	48	.11	10	1.40	.02	.04	1	2
1UMSF055	1	21	2	139	.1	856	70	1810	6.95	7	5	ND	1	13	.2	2	2	65	.20	.072	7	1063	6.97	86	.08	10	1.53	.01	.06	1	1
1UMSF056	1	43	2	87	.1	998	97	1652	6.78	9	5	ND	1	12	.3	2	2	57	.19	.076	9	1055	9.79	82	.04	9	1.44	.01	.06	1	1
1UMSF057	1	15	2	97	.1	1050	94	1165	11.36	4	5	ND	1	5	.2	4	2	62	.05	.081	2	1489	10.05	40	.03	13	.95	.01	.04	1	1
1UMSF058	1	23	2	76	.1	1147	87	1019	7.33	8	5	ND	1	9	.2	3	2	53	.10	.066	4	1275	9.95	54	.03	10	1.44	.01	.04	1	1
1UMSF059	1	11	4	74	.1	376	39	544	5.91	5	5	ND	1	10	.2	2	2	65	.09	.046	7	779	3.21	59	.10	4	1.25	.01	.03	1	1
1UMSF060	1	21	2	83	.1	983	73	640	6.96	19	7	ND	2	7	.3	3	2	54	.09	.049	4	1278	10.03	42	.05	9	1.68	.01	.04	1	4
1UMSF061	1	18	2	92	.1	1091	98	1303	7.23	8	5	ND	1	10	.2	2	2	53	.13	.049	7	1351	8.88	78	.07	9	1.50	.01	.04	1	1
1UMSF062	1	19	2	92	.1	692	70	1018	6.51	5	5	ND	1	10	.2	2	2	57	.13	.061	6	1118	6.53	94	.06	5	1.29	.01	.04	1	2
1UMSF063	1	10	2	73	.1	216	20	350	3.53	2	5	ND	1	13	.2	2	2	56	.13	.033	8	505	2.59	63	.13	3	1.35	.02	.03	1	1
1UMSF064	1	18	3	88	.1	627	47	684	5.46	4	5	ND	1	15	.2	2	2	52	.17	.051	8	816	4.81	83	.07	6	1.51	.01	.06	1	2
1UMSF065	1	22	3	61	.1	506	31	475	4.78	5	5	ND	1	15	.2	2	2	52	.16	.048	9	684	2.37	69	.08	3	1.40	.01	.06	1	1
1UMSF066	1	15	3	68	.1	378	40	646	5.25	4	5	ND	1	15	.2	2	2	62	.19	.054	6	704	2.59	82	.10	3	1.15	.01	.05	1	1
1UMSF067	1	15	2	71	.1	451	39	545	6.81	3	5	ND	2	11	.2	2	2	79	.10	.064	5	738	3.50	91	.12	4	1.41	.01	.05	1	1
1UMSF068	1	9	5	57	.1	155	15	265	2.48	2	5	ND	1	15	.2	2	2	42	.15	.032	8	310	1.58	89	.13	2	1.00	.01	.04	1	1
1UMSF069	1	13	4	67	.2	277	21	377	3.99	2	5	ND	1	12	.2	2	2	54	.14	.050	6	536	2.74	93	.12	3	1.23	.01	.05	1	3
1UMSF070	1	15	2	72	.1	423	45	881	6.83	5	5	ND	2	12	.2	2	2	68	.13	.068	6	789	2.80	139	.12	3	1.13	.01	.06	1	1
1UMSF071	1	56	2	140	.1	977	64	10852	6.26	24	7	ND	1	34	.6	2	2	80	.23	.130	11	835	2.58	290	.06	5	3.41	.01	.11	1	1
1UMSF072	1	25	3	79	.1	555	47	935	5.85	27	5	ND	1	22	.2	4	2	60	.20	.064	9	685	3.64	116	.09	6	1.59	.01	.05	1	7
1UMSF073	1	15	2	70	.1	439	38	553	6.54	4	5	ND	1	12	.2	2	2	72	.11	.053	5	706	3.31	93	.11	3	1.16	.01	.04	1	2
1UMSF074	1	16	2	75	.1	482	47	638	5.37	4	5	ND	1	11	.2	2	2	55	.12	.052	5	703	4.85	99	.08	4	1.27	.01	.04	1	1
1UMSF074A	1	24	2	57	.1	719	66	645	5.13	6	5	ND	1	11	.3	2	2	50	.15	.032	4	874	8.45	62	.08	8	1.46	.01	.04	1	1
1UMSF075	1	51	2	47	.1	1544	104	1563	6.98	9	5	ND	1	12	.5	2	2	38	.17	.063	10	1020	7.08	97	.04	7	1.45	.01	.05	1	2
1UMSF076	1	23	2	63	.1	741	54	691	5.45	10	5	ND	1	13	.3	3	2	47	.16	.026	8	710	6.25	63	.09	7	1.31	.02	.04	1	2
1UMSF077	1	24	2	45	.1	1336	76	738	4.90	5	5	ND	1	10	.2	2	2	35	.14	.045	7	773	12.10	49	.04	8	1.21	.01	.05	1	3
1UMSF078	1	17	4	48	.1	1120	111	850	5.28	11	5	ND	1	12	.2	3	2	40	.14	.035	7	1350	10.25	64	.07	11	1.17	.01	.04	1	2
1UMSF079	1	30	2	53	.1	1012	51	754	4.44	9	5	ND	1	14	.2	2	2	37	.17	.052	10	1047	8.11	83	.05	9	1.51	.01	.05	1	1
1UMSF080	1	20	2	84	.1	893	96	1108	7.35	4	5	ND	1	7	.3	2	2	55	.36	.062	3	963	9.52	52	.05	9	1.12	.01	.04	1	1
1UMSF081	1	16	2	79	.1	1065	156	2004	7.77	7	5	ND	1	8	.6	2	2	53	.13	.066	2	1219	8.84	97	.04	8	1.16	.01	.03	1	2
1UMSF082	1	15	2	72	.1	850	56	594	5.41	16	5	ND	1	12	.7	2	2	52	.14	.039	6	670	7.03	54	.08	8	1.64	.01	.03	1	6
1UMSF083	1	12	2	85	.1	1096	91	1030	8.33	8	5	ND	1	5	.9	4	2	44	.06	.070	2	839	11.01	46	.04	8	.99	.01	.03	1	3
1UMSF084	1	29	2	76	.1	1110	54	989	6.58	35	5	ND	1	9	.5	2	2	57	.23	.090	3	922	7.87	57	.06	11	1.91	.02	.06	1	6
1UMSF085	1	17	2	80	.1	1485	113	1387	7.80	12	5	ND	1	4	.6	2	2	48	.06	.045	2	1569	12.42	58	.02	14	1.17	.01	.04	1	3
STANDARD C/AU-S	19	56	38	123	7.2	73	32	1028	3.91	38	16	7	38	53	18.8	14	18	54	.46	.083	37	60	1.04	169	.08	34	1.76	.06	.13	11	45



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1BMSR022	1	13	2	9	.1	634	41	753	3.50	113	5	ND	2	2	.2	2	2	18	.15	.002	2	859	8.52	14	.01	3	.32	.01	.02	1	20
1BMSR023	1	10	2	3	.1	1337	63	798	4.19	457	5	ND	2	3	.2	7	2	20	.22	.001	2	840	11.68	11	.01	5	.23	.01	.03	1	240
1BMSR024	1	10	3	3	.1	1642	77	1083	4.66	1249	5	5	1	3	.2	18	2	18	.17	.003	2	765	13.11	9	.01	5	.13	.01	.02	1	4230
1BMSR025	1	7	2	3	.3	1453	71	997	4.18	1065	5	4	2	2	.2	14	2	15	.18	.005	2	683	12.97	12	.01	5	.12	.01	.03	1	2730
1BMSR026	1	22	2	19	.1	2140	123	1136	8.93	1486	5	2	2	4	.2	25	2	40	.11	.019	2	1317	4.26	33	.01	4	.53	.01	.03	1	1180
1BMSR027	1	11	2	5	.1	850	58	633	3.52	130	5	ND	1	2	.2	2	2	13	.30	.002	2	749	14.72	6	.01	3	.19	.01	.02	1	19
1BMSR028	1	15	2	9	.1	1233	73	798	4.42	192	8	ND	2	2	.2	2	2	17	.06	.005	2	919	11.34	9	.01	5	.27	.01	.03	1	66
1BMSR029	1	16	2	8	.1	1657	77	619	4.37	144	5	ND	2	1	.2	2	2	19	.02	.003	2	1053	15.46	8	.01	14	.31	.01	.03	1	46
1BMSR030	1	10	2	2	.4	1358	61	800	4.11	956	5	2	1	8	.2	14	2	15	.31	.003	2	463	16.42	9	.01	3	.06	.01	.03	1	470
1BMSR031	1	7	2	3	.1	901	62	502	3.74	80	5	ND	1	1	.2	2	2	20	.10	.002	2	1017	13.66	6	.01	3	.32	.01	.02	1	12
1BMSR032	1	41	2	23	.5	490	52	973	8.43	7364	8	8	2	12	.2	11	2	77	.13	.011	3	277	1.48	66	.01	2	2.84	.01	.11	1	8850
SRO33	1	12	2	21	.1	1207	79	1073	5.60	598	5	ND	2	2	.2	12	2	32	.05	.011	2	1353	9.44	17	.01	4	.90	.01	.04	1	120
1BMSR034	1	4	2	5	.1	969	47	515	3.24	91	5	ND	1	1	.2	3	2	16	.26	.004	2	817	14.56	6	.01	4	.30	.01	.02	1	13
1BMSR035	1	5	2	4	.1	1039	56	614	3.83	280	5	ND	1	3	.2	2	2	16	.37	.003	2	630	15.70	6	.01	4	.15	.01	.01	1	60
1BMSR036	1	7	2	4	.1	1047	55	726	3.82	265	5	ND	1	2	.2	2	2	16	.25	.003	2	775	13.99	10	.01	3	.24	.01	.02	1	131
1BMSR037	1	9	2	1	.2	1246	57	503	3.50	598	5	ND	1	7	.2	15	2	15	.51	.004	2	670	16.43	7	.01	4	.12	.01	.03	1	220
1BMSR038	1	11	2	8	.1	1156	63	1150	4.73	175	5	ND	1	4	.2	2	2	23	.32	.003	2	1159	11.27	18	.01	6	.33	.01	.02	1	77
1BMSR039	1	9	2	5	.1	1234	67	947	4.58	98	5	ND	1	3	.2	5	2	19	.25	.003	2	1023	12.21	11	.01	7	.25	.01	.02	1	11
1BMSR040	1	9	2	2	.2	1249	58	500	3.65	603	5	ND	1	4	.2	27	2	16	.30	.002	2	453	13.01	8	.01	4	.13	.01	.03	1	280
1BMSR041	1	13	2	11	.1	930	61	648	4.02	25	5	ND	1	1	.2	2	2	18	.03	.004	2	974	11.86	9	.01	9	.30	.01	.02	1	11
1BMSR042	1	12	2	7	.1	744	55	626	3.51	33	5	ND	1	1	.2	2	2	13	.19	.004	2	825	14.49	10	.01	3	.25	.01	.01	1	6
1BMSR043	1	13	2	9	.1	473	50	828	3.60	15	5	ND	1	1	.2	2	2	15	.16	.003	2	787	13.67	8	.01	4	.21	.01	.01	1	11
1BMSR044	1	10	2	5	.1	907	51	558	3.37	213	5	ND	1	19	.2	2	2	15	1.25	.003	2	588	13.67	6	.01	4	.18	.01	.02	1	32
1BMSR045	1	10	2	4	.1	769	45	654	3.17	167	5	ND	1	14	.2	2	2	13	.91	.001	2	538	14.00	4	.01	4	.16	.01	.01	1	41
1BMSR046	1	12	2	3	.1	1069	56	577	3.70	357	5	ND	1	2	.2	2	2	14	.15	.002	2	593	15.98	4	.01	4	.19	.01	.02	1	42
1BMSR047	1	10	2	1	.1	1126	56	493	3.76	495	5	ND	1	2	.2	3	2	16	.15	.004	2	599	16.51	5	.01	5	.21	.01	.02	1	61
1BMSR048	1	8	2	4	.1	1208	55	644	3.70	459	5	ND	1	4	.2	13	2	14	.35	.004	2	492	16.17	8	.01	4	.13	.01	.02	1	79
1BMSR049	1	11	2	1	.2	1144	47	553	3.36	544	7	ND	1	21	.2	19	2	14	1.27	.003	2	364	16.18	5	.01	4	.08	.01	.03	1	137
1BMSR050	1	9	2	3	.1	1269	58	437	3.61	363	5	ND	1	3	.2	3	2	17	.17	.005	2	651	16.78	7	.01	6	.18	.01	.02	1	30
SRO51	1	13	2	7	.1	793	52	885	3.53	89	5	ND	1	2	.2	2	2	13	.18	.005	2	608	14.68	9	.01	5	.15	.01	.01	1	3
1BMSR052	1	9	2	11	.1	406	47	875	3.77	31	5	ND	1	1	.2	2	2	15	.11	.004	2	800	11.85	8	.01	2	.23	.01	.01	1	8
1BMSR053	1	11	2	8	.2	529	45	657	3.69	83	7	ND	1	1	.2	2	2	16	.25	.004	2	824	13.72	6	.01	2	.23	.01	.02	1	33
1BMSR054	1	7	2	7	.1	478	49	663	3.99	28	5	ND	1	1	.2	2	2	17	.27	.003	2	1066	13.81	3	.01	2	.32	.01	.01	1	5
1BMSR055	1	12	2	4	.3	1293	60	583	3.82	1141	5	ND	1	5	.2	17	2	13	.44	.004	2	473	16.17	10	.01	3	.06	.01	.02	1	630
1BMSR056	1	12	2	4	.4	972	43	380	3.32	729	5	ND	1	2	.2	14	2	13	.10	.004	2	449	14.99	4	.01	4	.06	.01	.02	1	810
1BMSR057	1	10	2	1	.1	1434	59	637	3.90	419	5	ND	1	5	.2	17	2	14	.45	.004	2	494	17.56	6	.01	5	.07	.01	.02	1	115
STANDARD C/AU-R	19	62	39	136	7.3	70	34	1074	4.00	44	15	6	40	52	18.7	16	21	56	.48	.093	39	58	.89	178	.09	33	1.95	.06	.14	13	460



ACME ANALYTICAL



ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1BMSR058	1	9	2	17	.1	891	48	497	3.53	57	5	ND	1	3	.2	2	2	16	.22	.002	2	696	14.06	8	.01	4	.25	.01	.02	2	14
1BMSR059	1	4	2	17	.1	850	48	800	3.86	90	5	ND	1	2	.2	2	2	15	.19	.002	2	678	14.35	13	.01	6	.27	.01	.01	1	9
1BMSR060	1	10	2	14	.2	1142	50	522	3.50	292	5	ND	1	7	.2	3	2	16	.23	.002	2	659	14.87	8	.01	8	.24	.01	.01	1	139



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-2363 Page 1

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2+00N 3+00E	1	99	7	111	.4	1224	64	1605	5.41	264	6	ND	1	20	.2	2	4	67	.36	.062	8	660	4.68	102	.07	3	2.52	.01	.07	1	37
2+00N 5+00E	1	13	5	88	.1	540	46	544	6.80	11	5	ND	1	9	.3	2	2	80	.11	.032	4	982	7.21	78	.11	4	1.60	.01	.02	1	4
2+00N 7+00E	1	19	3	59	.3	1017	60	661	4.38	4	7	ND	1	12	.2	2	2	38	.20	.032	6	777	10.59	42	.06	10	1.13	.01	.03	1	2
1+75N 3+00E	1	92	7	118	.8	1428	59	3541	4.83	393	5	ND	1	25	.4	3	2	62	.68	.180	9	546	3.76	156	.04	6	2.50	.01	.06	1	57
1+75N 5+00E	1	14	2	115	.1	613	54	732	6.77	10	5	ND	1	6	.2	2	2	64	.17	.060	2	1380	9.39	73	.05	5	1.48	.01	.01	1	5
1+75N 7+00E	1	17	3	80	.1	897	83	1184	6.34	7	5	ND	1	10	.2	2	7	49	.11	.049	3	808	8.06	82	.05	5	1.46	.01	.03	1	3
1+50N 3+00E	1	7	9	51	.1	103	16	508	2.04	11	5	ND	1	12	.2	2	3	53	.18	.030	7	270	1.29	102	.20	4	1.30	.01	.06	1	2
1+50N 5+00E	1	10	8	73	.1	209	19	294	3.85	2	5	ND	1	13	.2	2	3	66	.12	.024	8	499	2.29	85	.13	4	1.66	.01	.02	1	3
1+50N 7+00E	1	9	2	85	.1	419	52	572	5.04	2	5	ND	1	13	.2	2	7	52	.14	.044	5	694	4.20	102	.08	2	1.22	.01	.04	1	1
1+25N 3+00E	1	92	5	150	.6	1311	53	1955	6.34	171	5	ND	1	19	.5	3	2	70	.39	.198	9	720	3.67	222	.05	6	3.03	.01	.08	1	13
+25N 5+00E	1	20	2	79	.2	690	43	512	5.18	12	5	ND	1	8	.2	2	2	53	.13	.042	4	1139	9.32	54	.07	7	1.50	.01	.02	1	8
1+25N 7+00E	1	24	3	73	.2	634	48	733	4.65	4	5	ND	1	16	.2	2	2	50	.17	.036	6	532	4.85	105	.09	2	1.61	.01	.04	1	2
1+00N 3+00E	1	27	2	96	.1	573	56	816	8.14	116	5	ND	1	8	.2	2	7	86	.12	.044	4	893	3.77	99	.22	2	1.81	.01	.05	1	10
1+00N 5+00E	1	15	4	101	.2	503	33	563	4.31	6	5	ND	1	14	.2	2	2	63	.17	.052	6	629	4.10	84	.11	5	1.90	.01	.03	1	1
1+00N 7+00E	1	12	2	76	.1	379	49	881	6.63	6	5	ND	1	11	.2	2	2	63	.13	.080	4	742	3.33	111	.11	2	1.18	.01	.04	1	3
0+75N 3+00E	1	24	6	94	.1	471	29	524	4.11	15	6	ND	1	17	.2	2	2	52	.28	.034	6	393	3.36	67	.15	4	1.76	.01	.05	1	5
0+75N 5+00E	1	12	4	99	.1	539	34	495	4.66	2	5	ND	1	11	.2	2	2	49	.15	.044	4	842	6.81	53	.08	9	1.60	.01	.03	1	1
0+75N 7+00E	1	15	3	80	.1	307	44	692	5.30	4	5	ND	1	14	.2	2	2	64	.18	.052	4	583	2.54	82	.14	2	1.35	.01	.05	1	2
0+50N 3+00E	1	46	2	108	.1	707	44	727	5.06	32	5	ND	1	15	.2	2	2	55	.26	.052	5	716	6.30	100	.10	9	1.80	.01	.06	1	9
0+50N 5+00E	1	24	4	135	.3	961	57	1001	5.82	9	5	ND	1	11	.4	2	2	52	.15	.069	4	1062	9.34	76	.05	7	1.77	.01	.04	1	4
0+50N 7+00E	1	32	2	147	.2	396	39	556	7.05	10	5	ND	1	14	.2	2	2	84	.15	.063	4	603	3.58	123	.23	3	2.32	.01	.03	1	2
0+25N 3+00E	1	56	4	134	.1	215	38	919	6.51	38	5	ND	1	10	.2	2	2	101	.30	.043	5	311	2.62	136	.44	2	2.97	.01	.06	1	5
0+25N 5+00E	1	18	2	117	.2	686	37	479	5.44	7	5	ND	1	12	.2	2	2	59	.15	.046	5	866	6.63	58	.09	9	1.88	.01	.03	1	3
0+25N 7+00E	1	38	2	117	.2	645	45	744	5.06	8	9	ND	1	14	.3	2	3	77	.18	.062	11	713	4.10	107	.14	2	2.39	.01	.04	1	5
0+00 3+00E	1	118	2	178	.2	316	48	1158	7.00	63	5	ND	1	11	.2	3	2	80	.27	.041	2	361	2.60	225	.30	2	3.30	.01	.11	1	5
0+00 5+00E	1	18	2	90	.3	692	36	455	5.10	2	5	ND	1	13	.2	2	2	55	.16	.042	6	865	5.97	55	.09	5	1.76	.01	.03	1	1
0+00 7+00E	1	22	7	77	.1	399	36	660	6.45	22	6	ND	1	12	.2	2	3	84	.09	.040	6	726	2.54	94	.10	2	1.83	.01	.05	1	6
STANDARD C/AU-S	18	58	41	132	7.1	70	31	1045	3.96	38	22	6	39	52	18.6	15	19	55	.48	.091	39	59	.88	181	.09	31	1.89	.06	.15	12	46

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1 TO P2 SOIL P3 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 7 1991 DATE REPORT MAILED: *July 11/91* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

JUL 12 1991



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1JMSF001	4	156	6	68	1.4	184	31	642	3.50	7	5	ND	1	15	.6	2	2	51	.19	.143	12	399	1.37	100	.03	4	2.50	.01	.07	1	1
1JMSF002	1	18	6	52	.1	73	12	357	2.17	5	5	ND	1	19	.2	2	2	47	.26	.040	14	196	.72	114	.19	2	1.04	.01	.06	1	1
1JMSF003	2	32	8	67	.1	83	19	612	2.59	5	5	ND	1	16	.2	2	2	57	.22	.051	14	201	.92	107	.14	2	1.73	.01	.08	1	1
1JMSF004	4	72	10	109	.6	304	52	4495	4.61	13	5	ND	1	19	.9	2	2	75	.33	.132	25	396	1.50	146	.07	9	2.53	.07	.11	1	2
1JMSF005	1	15	8	68	.2	49	10	726	1.84	5	5	ND	1	13	.2	2	2	51	.14	.059	11	187	.43	116	.16	2	1.26	.01	.11	1	1
1JMSF006	1	50	2	58	.1	45	19	821	2.81	5	5	ND	1	11	.3	2	2	50	.38	.036	3	93	.86	82	.28	2	1.59	.03	.09	1	1
1JMSF007	2	47	7	93	.4	152	47	3084	4.17	9	5	ND	1	18	.2	2	2	59	.32	.110	9	265	1.48	118	.12	5	1.93	.02	.09	1	2
1JMSF008	2	66	8	116	.5	214	75	2791	5.04	8	5	ND	1	41	.9	2	2	89	.65	.340	15	376	1.16	170	.03	3	2.86	.01	.12	1	1
1JMSF009	1	15	7	48	.1	94	9	178	1.97	2	5	ND	1	16	.2	2	2	42	.33	.031	10	529	.31	88	.15	6	.66	.01	.04	1	19
1JMSF010	2	59	5	88	.5	238	22	545	3.34	12	5	ND	1	24	.5	2	2	55	.41	.147	21	409	1.01	102	.04	4	2.83	.01	.07	1	1
1JMSF011	1	25	2	81	.1	124	22	611	4.29	7	5	ND	1	13	.2	2	2	79	.22	.075	9	275	1.18	93	.25	2	1.50	.01	.05	1	1
1JMSF012	1	27	5	54	.1	110	17	362	2.94	7	5	ND	1	10	.2	2	2	59	.20	.039	4	378	.78	107	.23	2	1.29	.01	.05	1	3
1JMSF013	2	95	3	80	.7	259	50	736	4.10	7	13	ND	1	18	.2	2	2	75	.30	.114	21	434	1.53	145	.06	3	2.63	.01	.08	1	1
1JMSF014	2	85	14	132	.8	544	89	4553	5.31	12	5	ND	1	27	1.1	2	2	81	.56	.131	21	435	1.82	251	.06	5	3.00	.01	.11	1	1
1JMSF015	1	25	6	87	.1	529	43	608	3.98	7	5	ND	1	16	.2	2	2	56	.20	.033	10	588	4.49	85	.10	3	1.33	.01	.04	1	1
1JMSF016	1	15	4	68	.1	241	23	341	3.90	6	6	ND	1	15	.3	2	2	60	.18	.044	8	651	2.23	93	.13	2	1.09	.01	.05	1	1
1JMSF017	1	13	4	79	.1	430	42	548	5.58	7	5	ND	1	13	.2	2	2	62	.16	.053	7	902	2.95	106	.09	4	.79	.01	.03	1	2
1JMSF018	1	9	3	67	.1	212	20	289	4.02	7	5	ND	1	14	.2	2	2	56	.18	.043	7	754	1.97	75	.12	2	.86	.01	.04	1	1
1JMSF019	1	53	3	97	.3	878	107	2618	6.06	12	7	ND	1	20	.4	2	2	73	.25	.092	11	743	4.27	163	.06	5	3.14	.02	.09	1	1
1JMSF020	1	17	6	75	.1	368	32	464	5.32	10	5	ND	1	16	.2	2	2	68	.19	.067	6	558	3.03	91	.14	2	1.58	.02	.04	1	1
1JMSF021	1	9	2	73	.1	289	34	534	6.47	7	5	ND	1	12	.2	2	2	84	.11	.085	8	871	2.74	96	.15	2	1.29	.01	.03	1	2
1JMSF022	1	10	2	65	.1	368	38	465	6.60	3	5	ND	1	13	.2	2	6	69	.13	.056	7	1035	2.50	70	.11	2	.94	.01	.04	1	1
1JMSF023	1	6	2	64	.1	253	26	331	4.69	8	6	ND	1	13	.3	2	2	73	.13	.037	7	842	2.83	46	.15	4	1.08	.02	.03	1	1
1JMSF024	1	7	7	62	.1	115	12	269	1.89	4	5	ND	1	16	.3	2	3	38	.15	.025	14	355	1.50	88	.14	2	1.24	.01	.05	1	1
1JMSF025	1	21	4	82	.1	191	18	334	3.69	8	7	ND	1	16	.2	2	5	56	.22	.054	10	271	1.54	86	.15	5	1.34	.01	.05	1	1
1JMSF026	1	12	2	63	.1	237	43	896	5.72	6	7	ND	1	16	.2	2	3	62	.21	.059	8	974	1.74	114	.11	5	.87	.01	.05	1	2
1JMSF027	1	4	7	33	.1	119	10	158	1.50	2	5	ND	1	8	.2	2	2	14	.10	.038	6	340	1.36	42	.03	2	.38	.01	.06	1	2
1JMSF028	1	55	2	107	.5	1049	144	2970	5.79	15	5	ND	1	25	.8	2	3	65	.30	.087	18	822	5.78	200	.05	6	2.66	.02	.08	1	2
1JMSF029	1	6	2	43	.1	179	19	259	4.18	5	5	ND	1	12	.2	2	3	69	.14	.025	8	779	1.14	72	.13	2	.79	.01	.03	1	3
1JMSF030	1	14	4	64	.1	190	20	288	3.73	8	5	ND	1	20	.2	2	2	74	.17	.024	5	478	1.85	72	.21	4	1.58	.01	.04	1	2
1JMSF031	1	22	8	89	.2	348	45	730	5.63	8	10	ND	1	15	.2	2	2	74	.25	.052	4	724	3.37	121	.15	3	1.75	.01	.06	1	3
D 98501	1	29	2	82	2.0	753	50	816	4.31	153	5	ND	1	19	.2	4	2	52	.47	.069	6	846	4.77	56	.07	12	1.59	.01	.04	1	13
D 98502	1	32	2	72	.1	878	54	766	4.80	103	8	ND	1	14	.2	5	5	51	.38	.053	5	1008	6.46	44	.08	11	1.50	.01	.05	1	3
STANDARD C/AU-S	18	56	40	130	7.1	71	34	1050	3.86	37	24	7	38	52	18.4	14	21	55	.48	.092	39	60	.82	177	.09	34	1.87	.06	.15	13	48



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1BMSR001	1	22	5	27	.3	1678	57	489	3.90	6	5	ND	1	1	.2	2	2	3	.03	.001	2	256	12.35	6	.01	46	.04	.01	.01	1	7
1BMSR002	1	17	4	28	.4	1780	67	533	4.51	6	5	ND	1	1	.2	2	2	7	.01	.001	2	289	17.16	6	.01	56	.03	.01	.01	1	4
1BMSR003	1	22	5	33	.6	1831	67	562	3.93	7	5	ND	1	1	.2	2	2	3	.01	.002	2	137	13.76	6	.01	53	.02	.01	.01	1	1
1BMSR004	1	17	2	32	.4	1949	75	753	4.08	11	5	ND	1	1	.2	2	2	6	.01	.002	2	262	18.04	9	.01	88	.03	.01	.01	1	1
1JMSR001	1	16	2	18	.1	1029	56	632	3.89	15	5	ND	1	1	.2	2	2	6	.02	.003	2	251	15.12	9	.01	66	.03	.01	.01	1	1
1JMSR002	1	18	2	21	.2	1062	57	582	3.78	11	5	ND	1	1	.2	2	2	2	.01	.002	2	150	15.28	7	.01	42	.01	.01	.01	1	1
1JMSR003	1	17	4	19	.2	1038	51	545	3.80	9	5	ND	1	1	.2	2	2	1	.01	.001	2	59	12.65	3	.01	229	.01	.01	.01	1	1
1JMSR004	1	39	4	24	.3	1375	57	546	3.50	24	5	ND	1	1	.2	2	2	4	.02	.001	2	127	15.52	7	.01	151	.05	.01	.01	1	1
1JMSR005	1	7	2	17	.1	594	40	633	3.32	6	5	ND	1	2	.2	2	2	22	.66	.002	2	904	15.40	3	.01	21	.43	.01	.01	1	1
1JMSR006	1	5	2	20	.1	596	40	721	3.38	3	5	ND	1	3	.2	2	2	21	.91	.002	2	985	13.45	5	.01	16	.51	.01	.01	1	1
1JMSR007	1	3	2	15	.1	736	45	655	3.32	392	5	ND	1	4	.2	7	2	21	.67	.003	2	780	15.48	9	.01	9	.37	.01	.01	1	3
98001	1	45	3	18	.2	13	5	348	1.13	2	5	ND	1	22	1.4	2	2	39	1.91	.032	2	33	.64	17	.41	2	.89	.01	.01	1	2
STANDARD C/AU-R	18	58	40	132	7.5	70	31	1037	3.95	37	18	7	40	52	17.6	15	22	55	.48	.089	37	59	.88	177	.09	31	1.88	.06	.15	11	450



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-2229

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
D 98503	2	17	8	32	.4	1248	57	672	3.44	19	5	ND	1	7	.2	6	2	17	.67	.003	2	1225	13.09	7	.01	25	.41	.01	.01	1	6
D 98504	2	19	2	20	.4	1003	63	543	4.74	114	5	ND	1	2	.2	10	3	23	.10	.003	2	1600	11.55	8	.01	14	.58	.01	.01	1	5
D 98505	2	15	5	28	.4	681	58	1186	4.29	31	5	ND	1	2	.2	13	2	19	.10	.004	2	1273	10.60	15	.01	11	.37	.01	.01	1	2
D 98506	2	10	2	21	.2	687	50	778	4.31	41	5	ND	1	2	.2	7	2	23	.41	.004	2	1261	12.07	10	.01	20	.34	.01	.01	1	1
D 98507	2	12	2	19	.4	1005	61	845	5.04	200	5	ND	1	2	.2	10	2	16	.08	.004	2	1164	9.44	18	.01	10	.36	.01	.01	1	10
D 98508	2	13	2	20	.9	1425	58	532	3.06	215	5	ND	1	2	.2	19	2	6	.10	.002	2	450	13.30	8	.01	7	.09	.01	.02	1	270
D 98509	3	15	2	19	1.0	1170	53	627	3.31	825	5	ND	1	8	.5	44	2	6	.63	.005	2	484	13.72	9	.01	8	.15	.01	.02	1	430
D 98510	3	13	2	19	.7	1406	68	892	4.80	717	5	ND	1	4	.2	43	2	13	.43	.005	2	744	12.08	14	.01	8	.19	.01	.01	1	270
D 98511	2	7	2	15	.3	1144	54	661	3.75	303	5	ND	1	2	.2	17	3	9	.17	.003	2	638	13.79	8	.01	7	.17	.01	.01	1	4
D 98512	2	14	2	21	.5	1271	60	956	4.07	261	5	ND	1	3	.2	24	3	13	.26	.003	2	755	11.49	9	.01	8	.17	.01	.01	1	210
D 98513	2	8	2	15	.5	1129	56	606	3.95	519	5	ND	1	3	.2	22	2	8	.18	.003	2	752	14.09	5	.01	8	.21	.01	.01	1	260
D 98514	2	7	2	18	.5	1252	57	663	3.92	458	5	ND	1	3	.2	28	2	13	.31	.003	2	595	15.49	9	.01	8	.14	.01	.01	1	99
D 98515	4	16	2	23	.9	1940	74	952	5.81	427	5	ND	1	3	.2	38	2	23	.13	.004	2	905	9.43	19	.01	9	.26	.01	.02	1	840
D 98516	3	44	2	46	1.0	1773	93	1062	7.78	858	12	ND	1	9	.4	52	2	70	.46	.019	2	1094	3.92	33	.02	12	1.66	.05	.07	1	520
D 98517	2	74	2	43	1.4	333	36	888	6.13	4474	5	12	1	11	.7	34	3	79	.53	.028	2	147	1.74	39	.01	9	1.81	.10	.12	1	14900
D 98518	3	72	2	37	2.3	229	39	1017	7.41	9527	5	28	1	30	.3	41	2	64	.28	.019	2	73	.86	29	.01	9	1.57	.06	.15	1	29800
D 98519	2	15	2	16	.4	1205	52	514	3.59	678	5	ND	1	3	.2	20	2	15	.10	.003	2	713	11.33	5	.01	5	.23	.01	.02	1	530
STANDARD C/AU-R	20	62	40	132	7.5	71	34	1054	3.99	41	18	8	39	52	17.1	16	21	57	.50	.089	38	58	.89	174	.09	32	1.88	.06	.15	12	490

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 3 1991

DATE REPORT MAILED: July 8/91.

SIGNED BY: *C. Leung* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

JUL 9 1991



WHOLE ROCK ICP ANALYSIS



Minnova Inc. PROJECT 671 File # 91-1886 Page 1

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Sr	La	Zr	Y	Nb	Residu	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	gm	%
D 98002	90.35	2.34	2.81	3.11	.15	.17	.05	.07	.02	.01	.616	28	10	8	9	5	20	.142	99.66
D 98003	89.87	2.57	1.43	4.79	.33	.14	.05	.11	.01	.01	.516	41	10	2	12	5	20	.155	99.81
D 98004	93.34	2.30	1.13	2.17	.13	.11	.05	.02	.01	.01	.477	155	10	7	5	5	20	.152	99.76
D 98005	92.33	2.76	1.14	2.58	.08	.07	.05	.06	.01	.02	.878	42	10	2	5	5	20	.137	99.93
D 98006	70.34	.96	5.28	22.09	.07	.07	.05	.03	.08	.02	.395	35	10	4	16	5	20	.251	99.34
D 98007	67.35	.78	6.60	24.02	.05	.09	.05	.01	.08	.01	.465	48	10	2	12	5	20	.261	99.46
D 98008	89.49	2.21	2.21	4.92	.11	.07	.05	.02	.06	.01	.655	43	10	2	5	5	20	.150	99.77
D 98009	90.12	2.99	3.18	2.72	.09	.07	.05	.02	.03	.01	.575	16	10	5	7	5	20	.148	99.80
D 98010	91.59	2.69	1.64	2.99	.07	.07	.12	.01	.03	.01	.598	70	10	9	13	5	20	.144	99.83
D 98011	93.30	2.03	1.46	2.56	.06	.09	.05	.02	.02	.01	.313	58	10	11	5	5	20	.178	99.87
D 98012	79.52	2.20	2.06	14.69	.14	.12	.05	.10	.04	.01	.525	114	10	2	9	5	20	.165	99.45
D 98013	74.74	1.06	3.77	19.01	.09	.14	.05	.06	.05	.01	.420	120	10	7	22	5	20	.201	99.37
D 98014	59.69	1.25	7.40	29.70	.91	.05	.05	.02	.08	.11	.411	27	10	2	27	5	20	.333	99.58
D 98015	61.02	1.25	6.90	29.99	.13	.05	.05	.02	.07	.06	.390	5	10	2	5	5	20	.336	99.83
D 98016	61.73	1.14	6.42	28.38	1.14	.05	.05	.01	.08	.08	.412	6	10	7	5	5	20	.297	99.44
D 98017	67.04	1.01	5.99	24.64	.37	.05	.05	.01	.05	.06	.413	11	10	2	6	5	20	.280	99.59
D 98018	70.36	1.09	6.61	21.20	.04	.05	.05	.01	.06	.05	.338	13	10	2	5	5	20	.261	99.81
D 98019	69.94	.76	4.80	23.42	.03	.05	.05	.01	.10	.03	.421	13	10	2	10	5	20	.249	99.54
D 98020	82.17	1.81	2.86	12.19	.17	.11	.05	.02	.03	.01	.364	15	10	2	5	5	20	.180	99.74
D 98021	67.94	1.21	4.44	25.15	.04	.05	.05	.02	.09	.04	.432	69	10	10	7	5	20	.257	99.43
D 98022	62.66	1.11	7.01	28.01	.07	.08	.05	.05	.09	.06	.338	14	10	2	5	5	20	.326	99.50
D 98023	90.56	3.70	1.18	2.93	.34	.14	.28	.06	.01	.01	.437	14	10	3	38	5	20	.187	99.66
D 98024	57.25	12.64	8.89	5.46	8.71	5.00	.19	1.50	.04	.16	.032	38	246	10	107	29	20	.423	99.93
D 98025	70.98	16.26	4.50	1.06	1.49	1.56	1.71	2.21	.01	.03	.030	38	77	7	142	30	20	.282	99.88
D 98026	56.52	13.19	8.74	5.49	9.38	4.78	.05	1.58	.01	.17	.027	37	167	2	103	33	20	.416	99.97
D 98027	75.42	1.02	2.78	19.44	.18	.16	.05	.04	.08	.01	.402	12	10	2	13	5	20	.210	99.54
D 98028	84.45	2.85	5.71	5.32	.19	.10	.09	.05	.02	.01	.614	38	10	6	11	5	20	.168	99.41
D 98029	71.41	.88	8.47	18.13	.06	.05	.05	.04	.07	.01	.366	12	10	2	9	5	20	.219	99.51
D 98030	78.05	2.61	5.52	12.01	.59	.12	.08	.10	.06	.02	.416	36	21	8	36	5	20	.176	99.59
D 98031	70.94	13.22	3.86	2.09	1.63	3.15	1.78	2.84	.04	.02	.010	1145	618	39	285	16	20	.285	99.89
D 98032	89.43	3.27	3.38	2.00	.16	.24	.17	.19	.02	.01	.648	79	28	2	42	5	20	.165	99.54
D 98033	69.30	.79	8.59	20.39	.03	.05	.05	.03	.06	.01	.381	5	10	2	18	5	20	.248	99.62
D 98034	66.65	.79	9.05	22.30	.08	.06	.05	.03	.07	.03	.368	13	10	2	16	5	20	.260	99.43
D 98035	65.46	1.01	8.09	24.31	.03	.07	.05	.06	.08	.01	.360	20	10	2	27	5	20	.255	99.49
D 98036	68.68	.52	4.19	25.64	.06	.07	.05	.02	.06	.01	.123	5	10	2	24	5	20	.215	99.37
D 98037	71.74	1.31	8.81	16.89	.06	.11	.05	.03	.06	.01	.479	14	10	4	16	5	20	.187	99.52

JUN 8 1991
 JUN 8 1991

.50 GRAM SAMPLES ARE HOT LEACHED WITH 10% HCL, DRY RESIDUE, AND .100 GRAM RESIDUE ARE FUSED WITH 1.2 GRAM OF LIBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3.

- SAMPLE TYPE: CORE

Calculation base on the residue.

DATE RECEIVED: JUN 20 1991

DATE REPORT MAILED:

July 5/91

SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

C. Leong



SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Sr ppm	La ppm	Zr ppm	Y ppm	Nb ppm	Residu gm	SUM %
D 98038	75.67	.45	4.66	18.04	.04	.05	.05	.02	.04	.01	.466	11	10	4	5	5	20	.196	99.46
D 98039	89.44	.82	2.44	5.78	.07	.07	.25	.04	.05	.01	.622	16	10	2	16	5	20	.153	99.60
D 98040	69.06	13.41	6.60	1.92	2.91	2.41	.89	2.57	.01	.07	.009	49	92	2	130	15	20	.318	99.90
D 98041	75.88	2.23	3.44	17.35	.06	.08	.06	.04	.05	.02	.426	5	10	67	9	5	20	.234	99.65
D 98042	90.03	3.55	1.87	3.35	.10	.08	.15	.07	.02	.01	.478	17	10	109	11	5	20	.160	99.73
D 98043	67.78	1.35	5.10	24.43	.05	.06	.25	.03	.07	.02	.342	15	10	2	5	5	20	.242	99.49
D 98044	91.08	2.38	2.46	2.97	.08	.05	.18	.04	.02	.01	.485	12	10	2	5	5	20	.158	99.75
D 98045	84.50	10.02	.97	2.43	.14	.05	.88	.05	.01	.01	.554	23	10	5	9	5	20	.136	99.59
D 98046	66.26	17.28	5.19	1.28	4.61	.39	.95	3.59	.02	.09	.010	45	51	104	171	23	20	.278	99.72
D 98047	81.57	2.76	2.43	12.11	.16	.05	.05	.09	.06	.01	.401	54	10	77	5	5	20	.191	99.68
D 98048	63.05	1.10	7.19	27.06	.43	.05	.12	.03	.11	.05	.374	19	10	75	5	5	20	.325	99.53
D 98049	83.22	2.93	5.19	7.68	.11	.11	.05	.04	.05	.01	.525	43	10	2	35	5	20	.161	99.88
D 98050	69.42	.89	7.81	20.65	.08	.05	.08	.04	.11	.02	.307	11	10	2	6	5	20	.246	99.45
D 98051	74.09	1.24	4.17	19.07	.15	.10	.23	.04	.08	.01	.380	42	16	6	5	5	20	.211	99.57
D 98052	55.43	13.11	8.24	5.29	12.23	4.11	.07	1.19	.04	.16	.030	21	172	2	67	12	20	.381	99.92
D 98053	89.41	2.90	2.55	3.53	.33	.14	.05	.06	.04	.01	.651	5	10	12	15	5	20	.157	99.64
D 98054	67.88	1.01	5.30	24.82	.06	.05	.05	.02	.09	.02	.369	5	10	2	23	5	20	.257	99.61
D 98055	64.52	1.10	7.71	25.17	.34	.05	.05	.02	.12	.05	.423	6	10	2	11	5	20	.282	99.52



WHOLE ROCK ICP ANALYSIS



Minnova Inc. PROJECT 671 File # 91-2167 Page 1

3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. MOWAT

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Sr	La	Zr	Y	Nb	RESIDUE	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	gm	%
D 98056	92.05	.88	3.09	2.95	.05	.12	.05	.01	.01	.01	.705	47	10	2	5	5	20	.164	99.86
D 98057	70.72	1.43	5.43	21.55	.27	.12	.05	.08	.08	.04	.246	5	43	2	5	5	20	.343	99.97
D 98058	68.88	.88	5.24	24.37	.01	.05	.05	.01	.12	.04	.440	5	10	2	5	5	20	.292	100.01
D 98059	93.67	1.25	1.38	2.84	.01	.05	.05	.02	.01	.01	.702	5	10	2	5	5	20	.142	99.91
D 98060	91.39	1.45	3.61	2.94	.01	.05	.10	.01	.01	.01	.500	13	10	2	5	5	20	.158	100.01
D 98061	58.39	13.72	8.22	5.84	7.54	5.14	.05	.90	.01	.13	.031	30	636	2	52	6	20	.450	100.01
D 98062	89.13	3.97	2.59	2.43	.83	.42	.05	.16	.01	.02	.644	5	103	2	5	5	20	.138	100.25
D 98063	89.04	.10	4.35	6.10	.01	.05	.05	.01	.01	.01	.472	21	10	2	5	5	20	.264	100.08
D 98064	86.79	.62	6.01	6.21	.01	.05	.05	.01	.01	.01	.609	5	10	2	5	5	20	.137	100.26
D 98065	52.38	13.47	7.08	5.08	21.56	.05	.05	.45	.01	.12	.051	9	91	2	24	6	20	.381	100.24
D 98066	90.13	3.46	2.08	2.22	1.76	.05	.10	.08	.01	.02	.470	17	10	2	5	5	20	.153	100.34
D 98067	99.28	.40	.01	.09	.01	.05	.12	.02	.01	.01	.014	84	10	2	5	5	20	.477	99.95
D 98068	87.73	.27	1.16	10.54	.01	.05	.05	.03	.01	.01	.338	5	10	2	5	5	20	.174	100.11
D 98069	94.00	1.25	2.50	1.70	.04	.05	.05	.04	.01	.01	.528	5	10	2	5	5	20	.151	100.10
D 98070	72.24	.42	3.73	22.91	.01	.05	.05	.01	.16	.01	.404	5	10	2	5	5	20	.205	99.91
D 98072	94.79	.81	1.50	2.53	.01	.05	.05	.05	.01	.01	.473	15	10	2	5	5	20	.160	100.16
D 98073	59.64	15.14	6.61	3.25	8.90	3.42	1.05	1.81	.08	.12	.030	415	341	2	144	8	20	.400	100.18
D 98074	83.97	4.14	3.99	4.91	1.76	.76	.05	.38	.01	.02	.547	95	64	2	16	5	20	.155	100.50
D 98075	83.44	.11	6.88	9.12	.01	.05	.05	.02	.04	.03	.347	5	10	2	5	5	20	.317	99.99
D 98076	72.43	.29	4.91	21.74	.01	.08	.05	.01	.10	.01	.273	5	10	2	5	5	20	.231	99.84
D 98077	72.63	.09	3.91	22.75	.01	.05	.05	.01	.09	.01	.311	5	10	2	5	5	20	.243	99.84
D 98078	90.87	1.40	2.76	4.47	.01	.05	.05	.02	.01	.01	.582	5	10	2	5	5	20	.160	100.10
D 98079	73.50	1.17	3.68	21.22	.01	.05	.05	.02	.07	.02	.371	8	10	2	5	5	20	.219	100.06
D 98080	75.17	.41	2.65	21.04	.01	.05	.05	.03	.10	.01	.301	5	10	2	5	5	20	.200	99.75
D 98081	67.51	.20	2.93	28.87	.01	.05	.05	.03	.13	.02	.192	5	10	2	5	5	20	.311	99.88
D 98082	92.97	2.12	2.43	1.71	.01	.05	.05	.04	.01	.01	.438	20	10	2	5	5	20	.143	99.75
D 98083	83.39	.68	2.64	12.88	.01	.05	.05	.03	.05	.01	.490	5	10	2	5	5	20	.157	100.16
D 98084	91.42	.99	1.54	5.56	.01	.05	.05	.02	.07	.01	.521	5	10	2	5	5	20	.132	100.14
D 98085	78.59	.50	5.21	15.21	.01	.05	.05	.02	.07	.01	.386	5	10	2	5	5	20	.181	99.99
D 98086	94.93	1.23	1.69	2.06	.01	.05	.05	.02	.01	.01	.362	5	10	2	5	5	20	.183	100.31
D 98087	96.64	1.30	1.03	.89	.01	.05	.05	.01	.01	.01	.478	5	10	2	5	5	20	.144	100.35
D 98088	95.54	1.77	1.78	.63	.01	.05	.05	.02	.01	.01	.471	5	10	2	5	5	20	.153	100.26
D 98089	94.32	.49	1.42	3.54	.01	.05	.05	.01	.01	.01	.529	5	10	2	5	5	20	.142	100.31
D 98090	93.38	.58	.82	5.18	.01	.05	.05	.01	.01	.01	.410	5	10	2	5	5	20	.162	100.37
D 98091	72.98	.33	2.70	23.40	.01	.05	.05	.01	.11	.01	.326	5	10	2	5	5	20	.247	99.89
D 98092	78.65	.29	4.35	16.54	.01	.05	.05	.02	.09	.01	.352	5	10	2	5	5	20	.188	100.29

JUNE 24 1991

.5 GM SAMPLE NOT LEACHED WITH 10% HCL, IGNITED RESIDUE. .1 GM RESIDUE ARE FUSED WITH 1.2 GRAM OF LiBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3. DATA ARE CALC. TO RESIDUE.
- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 1 1991

DATE REPORT MAILED: July 17/91

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Sr ppm	La ppm	Zr ppm	Y ppm	Nb ppm	RESIDUE gm	SUM %
D 98093	94.36	1.96	1.16	1.82	.04	.05	.13	.03	.03	.01	.596	5	10	2	5	5	20	.139	100.17
D 98094	53.53	13.95	9.34	5.82	13.48	2.16	.12	1.27	.08	.17	.039	177	211	2	56	30	20	.399	100.03
D 98095	50.85	13.48	11.24	6.29	15.28	.47	.07	1.96	.03	.21	.024	106	843	2	93	44	20	.418	100.04
D 98096	47.67	13.41	11.60	7.48	17.38	.62	.05	1.58	.04	.20	.037	5	24	5	70	37	20	.456	100.06
D 98097	71.61	.91	7.72	18.82	.13	.05	.05	.02	.06	.02	.464	213	10	2	5	5	20	.206	99.82
D 98098	92.62	1.20	1.27	4.55	.08	.05	.05	.03	.06	.01	.518	5	10	2	5	5	20	.150	100.34



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 File # 91-1981
 3rd floor - 311 Water St., Vancouver BC V6B 1B8 Submitted by: U. HOWAT

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
0+50E 2+00S	1	14	2	73	.1	778	72	1079	6.18	213	5	ND	1	6	.2	18	2	55	.11	.037	2	1339	7.87	55	.03	14	1.31	.01	.02	1
0+50E 2+25S	1	11	2	84	.3	503	59	574	7.66	103	5	ND	1	9	.2	16	2	76	.11	.020	4	1182	4.51	59	.08	3	1.45	.01	.02	1
0+50E 2+50S	1	12	3	96	.1	741	59	923	6.64	169	5	ND	1	7	.2	10	3	60	.15	.038	2	1484	6.61	51	.04	12	1.17	.01	.02	1
0+50E 2+75S	1	15	3	78	.1	683	46	590	4.74	98	5	ND	1	10	.2	7	2	53	.14	.037	3	1162	7.78	48	.04	10	1.59	.01	.04	1
0+50E 3+00S	1	19	3	84	.2	878	55	860	5.69	78	5	ND	1	8	.2	2	8	53	.13	.051	4	1552	10.02	54	.04	8	1.50	.01	.03	1
0+50E 3+25S	1	27	3	102	.4	1210	46	800	4.25	51	5	ND	1	11	.2	7	6	41	.25	.130	6	2055	9.76	70	.03	13	1.67	.01	.04	1
0+50E 3+50S	1	30	2	122	.3	1587	48	6788	5.24	113	5	ND	1	14	.2	4	2	54	.52	.180	6	1993	4.68	178	.03	7	1.69	.01	.05	1
0+50E 3+75S	1	13	2	87	.2	432	62	1054	7.85	37	10	ND	1	9	.2	2	3	92	.09	.047	5	1175	3.16	100	.06	2	1.29	.01	.03	2
0+50E 4+00S	1	13	3	85	.2	475	59	845	9.13	36	5	ND	1	11	.2	2	2	98	.15	.030	5	1424	4.55	57	.07	7	1.31	.01	.03	1
0+50E 4+25S	1	10	2	100	.1	622	88	952	9.78	33	5	ND	1	7	.2	2	2	82	.07	.025	3	1527	7.44	48	.06	11	1.31	.01	.02	1
0+50E 4+50S	1	14	2	68	.1	768	62	552	5.00	71	5	ND	1	9	.2	2	2	50	.10	.021	3	1267	10.74	44	.05	14	1.57	.01	.02	1
0+50E 4+75S	1	18	2	66	.3	495	31	583	3.96	696	5	ND	2	18	.2	21	2	47	.28	.048	8	726	4.40	59	.06	4	1.66	.01	.05	2
1+50E 2+00S	1	25	2	65	.2	1113	66	840	6.49	182	5	ND	1	6	.2	6	2	58	.15	.050	2	1707	13.27	30	.02	11	1.67	.01	.02	2
1+50E 2+25S	1	24	2	86	.4	1165	103	1435	9.46	169	5	ND	1	5	.2	14	2	67	.10	.065	2	1920	7.88	50	.03	2	1.35	.01	.02	1
1+50E 2+50S	1	22	2	69	.2	847	86	1023	5.37	88	5	ND	1	6	.2	5	5	48	.16	.026	2	1202	11.12	35	.04	7	1.51	.02	.03	2
1+50E 2+75S	1	19	2	62	.2	1067	66	740	5.95	100	5	ND	1	6	.4	5	2	56	.15	.037	2	1623	12.65	33	.04	9	1.52	.02	.03	1
1+50E 3+00S	1	20	2	56	.5	933	64	840	4.94	102	5	ND	2	10	.4	5	2	53	.19	.028	4	1238	11.22	41	.04	5	1.48	.02	.03	1
1+50E 3+25S	1	21	2	82	.1	696	60	857	5.51	204	8	ND	1	13	.2	2	3	58	.14	.050	6	1155	6.19	57	.05	6	1.69	.02	.04	1
1+50E 3+50S	1	20	2	96	.4	710	68	2161	7.12	815	5	ND	1	15	.5	16	2	66	.35	.099	6	1660	5.13	84	.03	2	1.85	.01	.06	2
1+50E 3+75S	1	18	2	64	.2	797	60	910	6.09	268	5	ND	1	10	.4	8	2	62	.12	.050	5	1344	9.57	49	.04	6	1.60	.01	.03	1
1+50E 4+00S	1	20	2	66	.3	1030	105	1390	7.42	590	5	ND	1	13	.3	10	2	51	.23	.092	5	1584	8.10	52	.03	12	1.35	.01	.05	1
1+50E 4+25S	1	19	2	51	.2	713	70	1053	7.10	725	5	ND	1	14	.2	16	2	62	.21	.071	4	1604	9.64	46	.03	4	1.48	.01	.05	2
2+50E 2+00S	1	17	2	86	.3	632	55	698	6.30	162	5	ND	1	11	.2	2	2	72	.26	.034	5	1121	5.93	55	.08	2	1.79	.02	.03	2
2+50E 2+50S	1	14	2	91	.3	726	65	692	7.14	69	5	ND	1	6	.2	5	2	67	.12	.049	2	1615	10.99	35	.04	13	1.52	.01	.02	1
2+50E 2+75S	1	15	2	71	.1	1021	65	796	6.20	74	5	ND	1	6	.2	2	2	46	.08	.052	2	2127	14.24	31	.04	12	1.27	.01	.02	1
2+50E 3+00S	1	14	2	77	.3	1148	85	1013	7.26	73	5	ND	1	6	.2	2	2	57	.11	.050	2	1981	13.36	31	.03	10	1.51	.01	.01	1
2+50E 3+25S	1	18	2	58	.3	1268	69	863	5.19	70	5	ND	2	7	.2	3	7	50	.13	.044	3	1698	13.10	24	.03	10	1.36	.01	.01	1
3+50E 2+00S	1	15	2	105	.2	1182	75	685	10.07	15	5	ND	1	7	.2	2	2	85	.08	.035	3	1745	7.68	36	.08	3	1.69	.01	.02	1
3+50E 2+25S	1	12	2	88	.3	590	58	760	9.73	24	5	ND	1	8	.2	2	2	90	.17	.050	3	1275	6.12	37	.11	2	1.39	.02	.04	1
3+50E 2+50S	1	12	2	101	.3	904	98	849	10.23	21	5	ND	1	6	.2	5	2	77	.13	.064	2	1565	9.02	46	.07	5	1.37	.01	.03	1
3+50E 2+75S	1	14	2	81	.3	892	57	619	6.03	11	5	ND	1	7	.2	2	2	50	.12	.053	2	1653	12.71	32	.04	11	1.38	.01	.02	1
3+50E 3+00S	1	15	2	87	.5	1553	123	1338	6.49	13	5	ND	1	5	.2	2	2	42	.09	.058	2	1890	14.31	33	.02	9	1.04	.01	.01	1
3+50E 3+25S	1	17	3	81	.3	1452	72	994	7.01	11	5	ND	1	6	.3	2	2	52	.08	.089	2	2375	13.52	37	.02	8	1.34	.01	.03	1
3+50E 3+50S	1	15	2	91	.2	893	78	837	7.42	17	5	ND	1	6	.2	3	2	65	.10	.071	2	1730	11.02	33	.04	10	1.51	.01	.02	1
3+50E 3+75S	1	22	2	135	.4	1228	51	891	3.63	13	5	ND	1	11	.3	2	2	20	.23	.182	3	902	5.53	72	.02	10	1.07	.01	.04	1
3+50E 4+00S	1	11	6	86	.3	649	44	459	4.92	59	5	ND	1	11	.2	3	2	49	.17	.059	4	1016	8.24	45	.05	9	1.40	.02	.04	1
STANDARD C	19	62	40	133	7.3	70	32	1064	4.02	37	18	6	40	53	18.8	15	19	57	.48	.092	40	59	.90	180	.09	34	1.92	.07	.15	11

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL

DATE RECEIVED: JUN 24 1991 DATE REPORT MAILED: June 27/91 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Minnova Inc. PROJECT 671 FILE # 91-1981R
3rd floor - 311 Water St., Vancouver BC V6B 1B8

SAMPLE#	AU* ppb
0+50E 2+00S	62
0+50E 2+25S	26
0+50E 2+50S	35
0+50E 2+75S	36
0+50E 3+00S	13
0+50E 3+25S	3
0+50E 3+50S	4
0+50E 3+75S	5
0+50E 4+00S	10
0+50E 4+25S	4
0+50E 4+50S	5
0+50E 4+75S	37
1+50E 2+00S	590
1+50E 2+25S	39
1+50E 2+50S	41
1+50E 2+75S	120
1+50E 3+00S	150
1+50E 3+25S	35
1+50E 3+50S	47
1+50E 3+75S	150
1+50E 4+00S	44
1+50E 4+25S	130
2+50E 2+00S	37
2+50E 2+50S	16
2+50E 2+75S	51
2+50E 3+00S	99
2+50E 3+25S	99
3+50E 2+00S	5
3+50E 2+25S	7
3+50E 2+50S	1
3+50E 2+75S	5
3+50E 3+00S	2
3+50E 3+25S	6
3+50E 3+50S	9
3+50E 3+75S	20
3+50E 4+00S	15
STANDARD AU-S	45

JUL 11 1991

- SAMPLE TYPE: SOIL PULP AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 5 1991

DATE REPORT MAILED: July 9/91

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS