TERRAMIN RESEARCH LABS LTD.

092P/01
Mt. Armour

820644

ANALYTICAL REPORT

Job # 84-073 Corp. Falconbridge Copper Date June 21, 1984

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Sample No.	SiO_2 %	CaO %	MgO %	Na_2O %	TiO_2 %	Ba ppm	Cu ppm	Zn ppm	Au ppb
MA-001	90.9	.977	.454	.020	.167	70	6	23	-2
002	90.3	1.23	.693	.058	.183	150	2	18	-2
003	12.0	22.7	14.2	.067	.183	190	3	37	2
004	90.5	.069	.610	.026	.100	230	41	48	-2
005	77.9	.371	2.30	.074	.400	700	15	131	-2
006	93.3	.025	.043	.018	.033	60	120	940	26
007	92.6	.070	.529	.018	.200	130	58	1220	4
008	86.4	1.94	.854	.024	.067	70	57	2100	-2
009	65.7	.325	1.64	.293	.617	610	17	88	-2
010	96.5	.074	.076	.016	.033	80	6	12	-2
011	89.4	2.18	1.13	.003	.017	60	3	9	-2
012	96.0	.020	.076	.001	.017	90	11	8	-2
013	93.7	.260	.225	.008	.067	160	11	8	2
014	41.7	1.03	4.53	4.22	1.13	1410	96	49	4
015	47.5	1.02	6.85	3.37	1.60	130	75	54	-2
016	88.6	.055	.128	.030	.067	150	18	9	-2
017	64.4	.109	1.89	.129	.651	510	6	109	-2
018	95.8	.036	.056	.028	.050	40	8	250	-2
019	94.5	.529	.259	.036	.050	70	4	12	-2
020	86.6	.027	.056	.016	.167	60	7	48	-2
021	88.6	1.85	.793	.053	.117	240	7	10	-2
022	80.6	3.30	1.63	.117	.067	130	2	12	-2
023	93.5	.194	.036	.001	.017	10	115	11600	52
024	90.3	.183	.234	.054	.267	140	7	14	2
025	96.3	.038	.038	.012	.017	290	2	27	4

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Sample No.	SiO_2 %	CaO %	MgO %	Na_2O %	TiO_2 %	Ba ppm	Cu ppm	Zn ppm	Au ppb
MA-026	83.4	.263	.123	.015	.100	50	8	162	58
027	83.6	.172	1.03	.101	.400	230	6	16	-2
028	36.8	4.14	9.52	.070	5.67	250	16	141	2
029	65.9	.520	1.23	.152	.567	480	26	56	12
030	95.0	.007	.101	.001	.033	130	8	4	-2
031	93.7	.013	.076	.004	.017	170	7	16	2
032	45.1	11.4	4.71	2.48	1.83	30	29	74	-2
033	94.5	.028	.065	.001	.017	40	9	7	2
034	95.4	.027	.063	.001	.017	70	9	6	-2
035	60.8	.120	1.21	.147	.667	620	3	74	-2
036	92.4	1.06	.177	.009	.033	90	3	6	-2
037	91.6	.923	.315	.001	.017	20	4	4	-2
038	94.3	.006	.048	.004	.017	20	14	25	-2
039	94.1	.053	.086	.013	.033	40	16	7	-2
040	88.1	.748	.421	.077	.083	130	21	20	-2
041	93.3	.027	.045	.495	.083	20	2	7	6
042	34.9	8.06	4.73	1.14	3.50	1460	3	172	2
043	87.7	.334	.219	.057	.083	110	2	9	-2
044	84.7	.711	.380	.075	.083	120	2	10	-2
045	71.7	12.8	.320	.038	.033	60	11	10	2
046	9.20	50.6	.332	.030	.100	280	9	16	2
047	20.1	42.4	.322	.154	.167	220	9	9	4
048	6.63	50.8	.363	.039	.067	220	8	15	6
049	89.0	.326	.139	.054	.183	100	3	13	4
050	74.4	1.07	.287	.050	.167	110	7	8	6

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Sample No.	SiO_2 %	CaO %	MgO %	Na_2O %	TiO_2 %	Ba ppm	Cu ppm	Zn ppm	Au ppb
MA-051	75.9	.273	.371	.390	.334	310	32	68	4
052	85.4	1.14	.758	.097	.167	220	3	5	10
053	90.9	.116	.073	.049	.050	330	1	7	4
054	84.3	.154	.090	.082	.117	230	3	30	2
055	89.4	2.03	.663	.001	.017	10	2	3	4
056	87.3	.063	.065	.047	.150	40	9	76	16
057	89.4	1.04	.514	.031	.083	90	2	27	12
058	85.1	.207	.796	.031	.167	50	7	45	8
059	89.2	.081	.836	.032	.067	70	41	40	-2
060	78.7	.151	.980	.078	.300	670	41	35	-2
061	76.2	.418	1.74	.096	.317	500	27	50	-2
062	89.2	.039	.060	.047	.033	20	68	13	22
063	50.7	8.38	7.03	4.12	1.50	140	29	41	2
064	45.8	2.01	8.84	4.50	1.02	560	4	82	-2
065	49.6	12.3	9.14	2.43	.817	210	37	17	-2
066	49.0	11.2	10.2	2.20	1.37	170	61	31	4
067	50.7	5.65	3.75	4.64	2.44	320	36	63	-2
068	49.6	7.27	6.22	3.05	2.25	270	45	72	2
069	53.1	12.1	6.45	3.10	1.20	480	46	15	-2
070	46.4	10.0	5.84	3.59	1.55	180	75	52	2
071	90.7	.581	.295	.015	.033	40	12	7	-2
072	44.5	5.02	4.79	.255	5.34	410	8	104	-2
073	76.4	.105	1.54	.097	.317	680	30	55	-2
074	87.1	.049	.209	.062	.183	440	27	23	-2
075	81.9	.844	1.32	.084	.167	290	68	175	6

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MA-076	89.2	.031	.632	.020	.050	20	106	27	-2
077	80.4	.042	.146	.100	.150	510	6	22	2
078	88.3	.070	.106	.084	.067	330	7	300	10
079	84.3	.746	.310	.081	.067	290	4	25	-2
080	92.4	.459	.124	.067	.050	180	4	16	2
081	91.1	.263	.151	.065	.067	280	4	11	12
082	86.2	.222	.318	.116	.200	470	11	17	4
083	80.2	1.12	.856	.133	.200	500	9	39	2
084	48.3	11.8	10.0	1.81	1.12	880	18	22	2
085	87.7	.053	.574	.013	.150	1640	41	21	-2
086	48.1	9.71	6.10	2.84	2.12	130	58	50	-2
087	41.3	13.3	5.29	2.64	1.62	170	57	70	-2
088	39.4	10.7	5.92	2.67	1.40	560	32	59	6
089	90.3	1.62	.842	.016	.050	50	10	13	-2
090	93.5	.021	.048	.009	.017	20	4	3	-2
091	91.8	.986	.421	.015	.033	10	6	6	-2
092	92.8	.243	.083	.019	.017	60	167	4900	4
093	77.7	.032	.066	.065	.067	190	4	22	-2
094	59.5	.116	1.48	.217	.667	760	13	171	-2
095	80.6	2.39	1.79	.058	.200	220	5	24	2
096	83.4	.062	.156	.098	.234	380	10	15	-2
097	79.4	.048	.300	.120	.234	380	9	28	-2
098	66.5	.063	.158	.147	.200	440	30	1080	-2
099	46.0	9.97	11.0	.018	1.53	20	78	56	-2
100	49.2	9.12	7.13	3.24	1.62	430	21	47	4

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Sample No.	SiO_2 %	CaO %	MgO %	Na_2O %	TiO_2 %	Ba ppm	Cu ppm	Zn ppm	Au ppb
MA-101	49.6	9.54	5.77	3.44	2.25	70	18	46	-2
102	48.8	8.48	7.15	3.42	1.62	1300	64	54	2
103	80.2	.448	.368	.111	.183	310	4	28	-2
104	85.1	.063	.174	.108	.234	190	14	204	-2
105	78.7	.101	.172	.247	.250	470	6	15	-2
106	82.4	.036	.177	.247	.267	440	15	21	-2
107	77.0	.057	.171	.113	.167	460	5	15	2
108	92.8	.018	.023	.018	.050	80	44	250	-2
109	42.8	12.3	6.07	4.73	1.70	260	66	54	-2
110	49.0	11.3	7.69	3.13	1.17	90	56	36	-2
111	49.6	10.4	5.77	3.17	2.19	80	65	38	-2
112	46.6	7.71	6.20	3.25	1.92	140	8	63	-2
113	47.5	9.70	7.25	2.83	1.55	1240	60	40	-2
114	50.9	8.14	5.52	3.19	2.30	1480	64	64	-2
115	75.7	.084	1.04	.028	.183	780	49	16	-2
116	87.1	.108	.943	.023	.183	530	30	31	2
117	70.8	.248	.728	.032	.133	1130	7	13	-2
118	46.6	6.17	6.35	2.40	2.79	60	18	110	-2
119	48.8	10.3	8.07	2.62	1.30	860	48	38	-2
120	93.5	.050	.086	.044	.033	40	32	250	-2
121	69.5	.022	.108	.078	.067	290	3	1	-2
201	95.8	.018	.058	.023	.033	20	3	6	-2
202	78.5	.949	.361	.022	.083	10	9	9	-2
203	82.4	3.55	1.97	.016	.017	30	6	13	-2
204	48.8	8.49	7.63	2.62	1.72	720	44	41	-2

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Sample No.	SiO_2 %	CaO %	MgO %	Na_2O %	TiO_2 %	Ba ppm	Cu ppm	Zn ppm	Au ppb
MA-205	49.2	11.3	7.68	2.82	1.40	300	65	32	-2
206	59.5	2.35	1.77	5.69	.701	290	23	99	-2
207	49.6	10.6	7.76	2.79	1.57	530	74	31	4
208	46.8	9.51	7.69	2.78	1.45	230	3	47	-2
209	80.4	.618	1.34	.020	.183	1580	67	41	32
210	73.6	.108	1.72	.035	.267	1360	330	75	2
211	47.5	10.6	15.6	1.33	1.03	10	18	22	4
212	76.4	5.53	.925	.047	.033	110	9	17	-2
213	16.3	42.7	3.13	.049	.100	20	16	53	-2
214	75.9	.071	.056	.022	.017	30	18	10	-2
215	88.6	1.47	.814	.047	.067	130	15	10	-2
216	92.8	1.94	.794	.035	.017	30	9	6	2
217	93.1	.060	.093	.047	.117	50	6	12	-2
218	78.3	3.40	1.72	.026	.017	10	10	11	2
219	68.0	.259	.801	.248	.584	500	18	60	-2
220	90.3	.277	.161	.018	.017	60	9	3	-2
221	75.9	5.71	2.98	.036	.067	180	17	14	4
222	75.7	1.18	.652	.035	.117	170	37	13	-2
223	90.1	.084	.080	.024	.017	20	4	14	-2
224	18.2	47.3	.521	.152	.150	250	9	10	-2
225	87.1	.446	.393	.189	.183	150	14	17	-2
226	10.7	52.6	.517	.137	.067	230	7	9	-2
227	73.6	8.49	4.54	.148	.017	110	3	24	-2
228	85.4	.115	.217	.200	.284	260	30	27	4
229	62.5	.432	1.86	.386	.534	890	31	60	2

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Sample No.	SiO_2 %	CaO %	MgO %	Na_2O %	TiO_2 %	Ba ppm	Cu ppm	Zn ppm	Au ppb
MA-230	79.1	3.78	1.60	.163	.117	200	6	26	-2
231	58.2	.165	.635	.723	.717	2620	39	88	4
232	96.0	.084	.129	.147	.017	20	4	9	-2
233	74.2	1.39	.698	.243	.234	50	11	44	2
234	85.1	.217	.332	.294	.384	270	6	15	6
235	79.8	.292	.177	.179	.167	70	12	24	8
236	53.1	.280	1.82	.910	.867	1200	27	37	4
237	83.4	.712	.466	.186	.167	80	35	37	-2
238	68.5	3.19	1.32	.345	.434	560	27	61	-2
239	17.8	46.9	.536	.163	.100	140	27	15	2
240	18.6	44.8	.720	.240	.117	90	47	8	2
241	83.4	.197	.264	1.71	.200	120	10	33	-2
242	71.0	.315	1.47	1.19	.334	420	15	72	-2
243	78.5	1.33	.839	1.06	.133	150	17	31	-2
244	72.3	.527	.527	.232	.150	350	93	1640	-2
245	63.5	.926	1.25	1.16	.667	860	27	84	2
246	83.9	1.20	.308	.179	.017	190	6	21	2
247	66.1	.702	1.39	.531	.584	1180	18	48	2
248	75.3	.362	.199	.182	.050	200	5	14	-2
249	74.2	.049	.244	.275	.133	400	18	77	4
250	76.6	.186	.514	.293	.234	410	12	28	-2
251	85.4	.024	.174	.205	.067	260	4	2	26

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