

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation	Al %	Co ppm	Cr ppm	Fe %	Ni ppm	Pt ppb
		N	E																
151	M514	1494.68	4688.24	S. Karamuak	peridotite	Ub	55	L.B.	M	C	F	W	Secondary forest	6.77	427	6066	24.33	4849	30
152	M516	1495.88	4688.30	S. Karamuak	peridotite	Ub	15	D.G.	M	C	S	D	Secondary forest	3.36	136	4709	5.58	1061	< 5
153	M521	1497.90	4686.40	S. Karamuak	peridotite	Ub	15	L.B.	M	C	M	W	Secondary forest	5.60	309	5809	17.84	1987	15
154	M522	1500.43	4683.54	S. Karamuak	—	Ub	15	D.R.B.	R	C	M	W	Secondary forest	4.30	310	10679	44.00	5034	45
155	M524	1501.20	4684.40	S. Karamuak	peridotite	Ub	25	D.B.	R	C	M	W	Secondary forest	3.71	441	10630	33.33	4771	45
156	M525	1501.77	4685.25	S. Karamuak	peridotite	Ub	25	D.B.	R	C	M	W	Secondary forest	4.33	802	8221	42.46	6124	75
157	M526	1501.61	4682.55	S. Karamuak	—	Ub	25	D.B.	R	C	M	D	Secondary forest	5.28	212	6005	31.02	4686	30
158	M545	1488.46	4677.45	S. Karamuak	—	Ub	35	L.B.	M	C	F	W	Secondary forest	7.90	62	355	8.19	154	< 5
159	M554	1484.97	4685.32	S. Karamuak	—	Ub	15	W.B.	R	C	F	D	Secondary forest	8.35	21	121	5.06	73	5
160	M555	1485.88	4684.73	S. Karamuak	peridotite	Ub	25	B.	M	C	M	D	Secondary forest	4.66	310	4568	18.37	3462	15
161	M556	1486.80	4684.05	S. Karamuak	peridotite	Ub	35	L.B.	F	C	M	W	Secondary forest	9.64	81	505	9.85	997	< 5
162	M557	1487.65	4684.22	S. Karamuak	peridotite	Ub	25	L.B.G.	F	C	M	D	Secondary forest	8.23	74	306	9.82	98	< 5
163	M558	1488.02	4685.42	S. Karamuak	peridotite	Ub	35	D.R.B.	R	C	M	D	Secondary forest	5.26	485	4709	17.45	2697	15
164	M559	1487.62	4686.38	S. Karamuak	peridotite	Ub	25	R.B.	R	S	M	D	Secondary forest	8.95	45	377	6.44	320	< 5
165	M560	1487.50	4687.80	S. Karamuak	peridotite	Ub	15	L.Y.B.	F	S	M	D	Secondary forest	11.86	60	1182	14.40	819	< 5
166	M561	1487.62	4688.10	S. Karamuak	peridotite	Ub	25	R.B.	F	S	F	D	Secondary forest	14.89	353	137	12.45	339	< 5
167	M562	1487.45	4690.25	S. Karamuak	peridotite	Ub	15	L.B.G.	M	S	M	D	Secondary forest	9.53	32	312	5.21	128	< 5
168	M563	1487.48	4691.44	S. Karamuak	peridotite	Ub	25	B.	M	S	M	D	Secondary forest	3.94	179	3205	12.97	2938	5
169	M564	1487.78	4692.18	S. Karamuak	peridotite	Ub	25	R.B.	R	S	F	D	Secondary forest	5.20	477	8112	35.34	2895	30
170	M565	1487.78	4693.17	S. Karamuak	peridotite	Ub	15	B.	M	S	M	D	Secondary forest	6.38	233	3523	17.13	2584	15
171	M566	1488.20	4694.15	S. Karamuak	—	Ub	15	W.B.	F	C	F	W	Secondary forest	6.10	11	98	3.45	40	5
172	F506	1484.32	4685.47	S. Karamuak	peridotite	Ub	15	D.B.	R	C	F	W	Secondary forest	6.44	617	8409	23.61	5162	15
173	F508	1487.88	4681.30	S. Karamuak	peridotite	Ub	15	L.R.B.	R	C	M	W	Secondary forest	8.10	18	130	6.55	50	< 5
174	F509	1491.77	4678.70	S. Karamuak	peridotite	Ub	15	W.B.	F	C	M	W	Secondary forest	12.43	64	249	10.82	89	< 5
175	F510	1490.08	4680.88	S. Karamuak	peridotite	Ub	15	D.B.	F	C	M	W	Secondary forest	6.74	395	7818	25.34	3548	15
176	F514	1487.72	4682.37	S. Karamuak	peridotite	Ub	30	D.R.B.	R	S	M	W	Secondary forest	7.07	256	8471	37.99	3104	15
177	F515	1485.70	4678.33	S. Karamuak	peridotite	Ub	15	B.	R	C	F	W	Secondary forest	5.13	23	57	3.41	26	< 5
178	F516	1486.07	4678.75	S. Karamuak	sandstone	P2Cr	15	L.R.B.	R	C	F	W	Secondary forest	6.83	25	198	5.81	115	< 5
179	F517	1485.84	4679.15	S. Karamuak	sandstone	P2Cr	30	L.R.B.	R	C	F	W	Secondary forest	9.83	14	69	5.43	29	< 5
180	F518	1492.17	4676.32	S. Karamuak	peridotite	Ub	30	L.R.B.	M	C	M	W	Secondary forest	8.36	47	671	7.18	362	< 5

\*1Gravel: Many (M), Few (F), Rare or none (R)      \*\*Grain size: Sandy (S), Clayey (C)  
 \*\*Topography: Steep (S), Moderate (M), Flat (F)      \*\*\*Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G.	S.	T.	H.	Vegetation	Al %	Co ppm	Cr ppm	Fe %	Ni ppm	Pt ppb
		N	E																
181	F519	1492.48	4677.71	S. Karamuak	peridotite	Ub	30	L.R.B.	M	C	M	W	Secondary forest	9.67	17	59	5.71	36	< 5
182	F521	1482.22	4678.12	S. Karamuak	peridotite	Ub	20	R.B.	R	C	M	W	Secondary forest	10.52	20	143	7.37	37	< 5
183	M529	1476.45	4691.72	S. Imbak	peridotite	Ub	25	D.B.	R	C	F	W	Secondary forest	8.99	100	6122	29.07	1722	30
184	M530	1473.60	4692.17	S. Imbak	peridotite	Ub	25	D.B.	R	C	M	W	Secondary forest	6.67	809	7826	35.19	5361	30
185	M575	1461.83	4695.35	S. Imbak	harzburgite	Ub	15	D.B.	F	C	M	W	Primary forest	2.77	623	9875	32.18	2426	45
186	M576	1463.00	4695.62	S. Imbak	harzburgite	Ub	25	B.	F	C	F	W	Primary forest	1.95	462	5850	24.86	6121	30
187	M577	1464.02	4697.10	S. Imbak	harzburgite	Ub	15	D.R.B.	M	C	S	W	Primary forest	2.41	450	5934	21.58	7348	30
188	M578	1462.68	4696.80	S. Imbak	harzburgite	Ub	15	B.	F	C	F	D	Primary forest	3.37	285	4802	15.41	1646	15
189	M579	1462.66	4697.26	S. Imbak	harzburgite	Ub	15	D.R.B.	F	C	F	D	Primary forest	2.59	396	5840	23.23	3769	10
190	M580	1463.87	4697.77	S. Imbak	harzburgite	Ub	15	L.B.	F	C	F	D	Primary forest	8.64	82	682	10.33	655	5
191	M582	1463.40	4699.52	S. Imbak	—	Ub	15	D.B.	F	C	F	D	Primary forest	1.84	317	3658	9.42	1851	10
192	M584	1461.45	4701.85	S. Imbak	harzburgite	Ub	15	D.B.G.	M	C	S	W	Primary forest	1.08	266	2773	12.09	3451	15
193	M585	1463.17	4701.52	S. Imbak	harzburgite	Ub	25	L.B.	M	C	M	D	Primary forest	4.61	396	5235	27.03	4196	60
194	M586	1463.95	4700.98	S. Imbak	harzburgite	Ub	15	R.B.	F	C	M	D	Primary forest	3.34	446	5182	35.02	5715	30
195	M588	1467.58	4700.47	S. Imbak	—	Ub	15	L.B.	F	C	F	W	Primary forest	4.69	122	1410	7.04	871	< 5
196	M589	1467.58	4697.60	S. Imbak	—	Ub	15	W.B.	F	C	F	W	Primary forest	6.16	16	162	3.99	86	< 5
197	M590	1469.45	4697.92	S. Imbak	—	Ub	15	B.	R	C	F	W	Primary forest	7.07	370	7862	26.58	3374	15
198	N583	1476.72	4696.33	S. Imbak	harzburgite	Ub	30	L.R.B.	F	C	M	D	Secondary forest	4.31	25	264	3.12	221	< 5
199	N584	1477.45	4695.67	S. Imbak	dolerite	KPOs	30	D.B.	F	C	M	D	Secondary forest	4.86	436	5179	22.77	3768	15
200	E513	1475.24	4692.52	S. Imbak	peridotite	Ub	30	B.	R	C	S	W	Secondary forest	9.58	242	7850	35.48	2815	30
201	E517	1455.73	4701.84	S. Imbak	peridotite	Ub	15	B.	R	C	M	W	Secondary forest	3.45	139	1620	9.03	2045	10
202	E518	1456.98	4702.45	S. Imbak	peridotite	Ub	20	B.	R	C	M	W	Secondary forest	7.59	38	134	5.70	55	< 5
203	E519	1457.85	4703.57	S. Imbak	peridotite	Ub	10	L.B.	R	C	M	W	Secondary forest	8.15	36	134	5.57	59	5
204	E520	1459.56	4704.22	S. Imbak	peridotite	Ub	20	L.B.	R	C	M	W	Secondary forest	8.66	45	159	7.89	80	5
205	F529	1455.42	4697.20	S. Imbak	peridotite	Ub	15	B.	F	S	M	W	Secondary forest	2.77	81	977	4.05	695	< 5
206	F530	1454.50	4698.00	S. Imbak	peridotite	Ub	15	W.B.	R	C	M	W	Secondary forest	4.20	8	74	2.28	38	< 5
207	F531	1453.64	4699.27	S. Imbak	peridotite	Ub	15	R.B.	F	C	M	W	Secondary forest	4.75	100	1044	8.06	1225	10
208	F532	1455.03	4699.26	S. Imbak	peridotite	Ub	20	R.B.	R	C	M	W	Secondary forest	3.24	126	1068	10.04	2185	5
209	F533	1455.78	4699.75	S. Imbak	peridotite	Ub	20	W.B.	R	C	M	W	Secondary forest	4.41	17	169	2.53	154	5
210	F534	1456.80	4700.15	S. Imbak	peridotite	Ub	20	B.	R	C	S	W	Secondary forest	8.70	51	128	8.06	72	15

\*\*Gravel: Many (M), Few (F), Rare or none (R)      \*\*Grain size: Sandy (S), Clayey (C)

\*\*Topography: Steep (S), Moderate (M), Flat (F)      \*\*Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation	Al %	Co ppm	Cr ppm	Fe %	Ni ppm	Pt ppb
		N	E																
211	F535	1456.77	4699.73	S. Imbak	peridotite	Ub	15	B.	R	C	S	W	Secondary forest	8.05	57	296	7.75	270	< 5
212	G205	1555.25	4710.55	Terusan Sapi	serpentinite	Ub	10	L.R.B.	R	C	M	W	Plantation	9.53	120	5425	35.57	1707	20
213	G208	1552.55	4708.80	Terusan Sapi	serpentinite	Ub	20	B.	R	C	M	W	Secondary forest	7.46	474	6200	29.79	5485	15
214	N211	1552.32	4707.18	Terusan Sapi	peridotite	Ub	30	R.B.	R	C	F	W	Secondary forest	10.04	536	6454	33.74	3141	25
215	N210	1550.95	4706.32	Terusan Sapi	harzburgite	Ub	10	D.R.B.	R	C	M	W	Secondary forest	6.65	470	5124	26.52	4473	20
216	N209	1550.45	4706.50	Terusan Sapi	harzburgite	Ub	20	B.	R	C	M	W	Secondary forest	7.17	451	7666	36.65	3740	20
217	G211	1542.13	4708.73	Terusan Sapi	serpentinite	Ub	15	L.B.	R	C	M	W	Secondary forest	5.26	457	10550	43.89	3246	30
218	N216	1544.95	4713.52	Terusan Sapi	serpentinite	Ub	30	L.B.	R	C	F	W	Plantation	10.09	32	209	6.99	304	< 5
219	N203	1543.72	4713.55	Terusan Sapi	serpentinite	Ub	30	R.	R	C	M	W	Secondary forest	9.84	215	1221	19.79	1961	5
220	N215	1542.50	4714.91	Terusan Sapi	serpentinite	Ub	30	B.	R	C	M	W	Secondary forest	5.08	1087	7618	43.34	5858	25
221	N214	1539.72	4718.05	Terusan Sapi	serpentinite	Ub	30	L.B.	R	C	M	W	Secondary forest	7.00	1014	7650	39.43	5101	20
222	N213	1537.97	4717.80	Terusan Sapi	serpentinite	Ub	30	R.B.	R	C	F	W	Secondary forest	8.24	475	4270	34.06	4957	25
223	N621	1541.40	4716.53	Terusan Sapi	serpentinite	Ub	20	D.B.	R	C	F	W	Secondary forest	6.05	422	9635	37.58	5741	30
224	N623	1553.75	4711.25	Terusan Sapi	serpentinite	Ub	100	D.B.	R	C	F	W	Secondary forest	8.27	303	4776	31.31	2573	15
225	N624	1553.45	4709.90	Terusan Sapi	serpentinite	Ub	100	D.B.	R	C	F	W	Secondary forest	7.15	628	8579	37.04	4508	45

\*\*Gravel: Many (M), Few (F), Rare or none (R)

\*\*Grain size: Sandy (S), Clayey (C)

\*\*Topography: Steep (S), Moderate (M), Flat (F)

\*\*Humidity: Dry (D), Wet (W)

Appendix 17

List of soil geochemical samples  
in Area A



Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
1	GA001	1444.88	4798.85	Silam	—	Csba	25	R. B.	M	C	S	W	Secondary forest
2	GA002	1444.83	4800.15	Silam	serpentinite	Pr	25	R. B.	M	C	S	W	Secondary forest
3	GA003	1444.90	4802.11	Silam	—	Gb	25	B.	F	C	S	W	Primary forest
4	GA004	1444.43	4798.96	Silam	basalt	Csba	30	D. B.	R	C	S	W	Secondary forest
5	GA005	1444.63	4801.70	Silam	—	Csba	25	B.	R	C	S	W	Primary forest
6	GA006	1444.53	4801.96	Silam	—	Csba	30	B.	R	C	S	W	Primary forest
7	GA007	1444.43	4800.47	Silam	basaltic tuff	Csba	25	B.	R	C	S	W	Primary forest
8	GA008	1444.10	4798.33	Silam	vol. breccia	Csba	30	B.	F	C	S	W	Secondary forest
9	GA009	1444.30	4798.68	Silam	vol. breccia	Csba	25	B.	R	C	M	W	Secondary forest
10	GA010	1444.08	4799.17	Silam	—	Gs	30	B.	F	C	S	W	Secondary forest
11	GA011	1444.29	4799.48	Silam	vol. breccia	Csba	30	L. B.	F	C	S	W	Secondary forest
12	GA012	1444.08	4799.88	Silam	—	Gs	30	B.	R	C	M	W	Secondary forest
13	GA013	1444.05	4800.25	Silam	—	Gs	25	B.	M	C	F	W	Secondary forest
14	GA014	1444.09	4800.77	Silam	basaltic tuff	Csba	30	B.	R	C	M	W	Secondary forest
15	GA015	1444.05	4801.12	Silam	—	Csba	25	B.	R	C	M	W	Secondary forest
16	GA016	1444.19	4801.50	Silam	—	Csba	30	B.	R	C	M	W	Primary forest
17	GA017	1444.15	4801.81	Silam	—	Csba	25	B.	R	C	M	W	Primary forest
18	GA018	1444.41	4802.31	Silam	—	Csba	25	B.	R	C	S	W	Primary forest
19	GA019	1444.54	4802.85	Silam	—	Csba	25	B.	R	C	S	W	Primary forest
20	GA020	1443.04	4797.27	Silam	—	Csba	30	B.	R	C	S	W	Secondary forest
21	GA021	1443.11	4797.60	Silam	vol. breccia	Csba	25	G. B.	R	C	M	W	Secondary forest
22	GA022	1443.60	4797.90	Silam	—	Csba	35	Y. B.	F	C	M	W	Secondary forest
23	GA023	1443.85	4798.24	Silam	—	Gs	25	Y. B.	R	C	F	W	Secondary forest
24	GA024	1443.35	4798.28	Silam	—	Gs	25	R. B.	F	C	M	W	Secondary forest
25	GA025	1443.46	4798.78	Silam	—	Gs	25	Y. B.	R	C	M	W	Secondary forest
26	GA026	1443.73	4799.15	Silam	—	P <sub>4</sub> Km	30	Y. B.	F	C	M	W	Secondary forest
27	GA027	1443.10	4799.13	Silam	—	Gs	30	B.	F	C	M	W	Secondary forest
28	GA028	1443.83	4799.57	Silam	—	P <sub>4</sub> Km	25	Y. B.	F	C	M	W	Secondary forest
29	GA029	1443.31	4799.86	Silam	—	Gs	30	B.	R	C	M	W	Secondary forest
30	GA030	1443.43	4800.13	Silam	—	Gs	30	B.	R	C	M	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)      \*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)

\*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. <sup>*1</sup>	S. <sup>**2</sup>	T. <sup>**3</sup>	H. <sup>**4</sup>	Vegetation
		N	E										
31	GA031	1443.76	4800.42	Silam	—	Gs	25	B.	F	C	F	W	Secondary forest
32	GA032	1443.22	4800.80	Silam	—	Csba	30	Y.B.	R	C	M	W	Secondary forest
33	GA033	1443.62	4800.88	Silam	basalt	Csba	30	B.	F	C	S	W	Secondary forest
34	GA034	1443.60	4801.17	Silam	—	Csba	25	B.	R	C	M	W	Secondary forest
35	GA035	1443.06	4801.09	Silam	—	Csba	30	B.	R	C	M	W	Secondary forest
36	GA036	1443.10	4801.66	Silam	vol. breccia	Csba	25	B.	R	C	M	W	Secondary forest
37	GA037	1443.82	4801.73	Silam	vol. breccia	Csba	25	B.	R	C	M	W	Cocoa plantation
38	GA038	1443.88	4802.20	Silam	—	Csba	30	B.	R	C	F	W	Secondary forest
39	GA039	1443.12	4802.24	Silam	vol. breccia	Csba	25	B.	F	C	M	W	Secondary forest
40	GA040	1443.03	4802.64	Silam	vol. breccia	Csba	25	B.	F	C	S	W	Secondary forest
41	GA041	1443.65	4802.75	Silam	—	P <sub>4</sub> Km	30	B.	R	C	M	W	Secondary forest
42	GA042	1443.91	4798.81	Silam	—	Csba	30	B.	F	C	S	W	Secondary forest
43	GA043	1443.30	4801.34	Silam	—	Csba	30	B.	R	C	M	W	Secondary forest
44	GA044	1442.23	4796.50	Silam	—	Csba	30	Y.B.	M	C	M	W	Secondary forest
45	GA045	1442.53	4796.77	Silam	—	Csba	30	R.B.	F	C	S	W	Secondary forest
46	GA046	1442.21	4796.86	Silam	basaltic tuff	Csba	35	L.B.	F	C	S	W	Secondary forest
47	GA047	1442.80	4797.20	Silam	vol. breccia	Csba	30	B.	F	C	M	W	Secondary forest
48	GA048	1442.22	4797.30	Silam	—	Csba	30	Y.B.	F	C	S	W	Secondary forest
49	GA049	1442.18	4797.68	Silam	vol. breccia	Csba	25	R.B.	F	C	F	W	Secondary forest
50	GA050	1442.70	4797.85	Silam	vol. breccia	Csba	30	D.B.	M	S	M	W	Secondary forest
51	GA051	1442.30	4798.21	Silam	vol. breccia	Csba	25	B.	F	C	F	W	Secondary forest
52	GA052	1442.67	4798.39	Silam	vol. breccia	Csba	30	D.B.	M	S	S	W	Secondary forest
53	GA053	1442.53	4798.77	Silam	—	Csba	25	B.G.	F	C	F	W	Secondary forest
54	GA054	1442.07	4798.82	Silam	—	Csba	30	B.	F	C	M	W	Secondary forest
55	GA055	1442.12	4799.30	Silam	—	Csba	30	B.	R	C	M	W	Secondary forest
56	GA056	1442.71	4799.60	Silam	vol. breccia	Csba	25	B.	F	C	M	W	Secondary forest
57	GA057	1442.80	4799.90	Silam	—	Csba	30	L.B.	F	C	M	W	Secondary forest
58	GA058	1442.17	4799.87	Silam	—	Csba	25	B.	F	C	F	W	Secondary forest
59	GA059	1442.78	4800.28	Silam	—	Csba	25	D.B.	F	C	M	W	Secondary forest
60	GA060	1442.11	4800.18	Silam	vol. breccia	Csba	30	D.B.	M	C	S	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*\*2Grain size: Sandy (S), Clayey (C)

\*\*3Topography: Steep (S), Moderate (M), Flat (F)

\*\*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
61	GA061	1442.07	4800.50	Silam	vol. breccia	Csba	25	D.B.	F	C	S	W	Secondary forest
62	GA062	1442.34	4800.88	Silam	vol. breccia	Csba	25	B.G.	M	S	S	W	Secondary forest
63	GA063	1442.35	4801.20	Silam	vol. breccia	Csba	25	B.	F	C	S	W	Secondary forest
64	GA064	1442.14	4801.48	Silam	basalt	Csba	25	L.B.	F	C	M	W	Secondary forest
65	GA065	1442.77	4801.77	Silam	—	Csba	30	D.B.	F	C	S	W	Secondary forest
66	GA066	1442.45	4801.82	Silam	basalt	Csba	30	L.B.	F	C	M	W	Secondary forest
67	GA067	1442.86	4802.12	Silam	basalt	Csba	35	D.B.	F	C	M	W	Secondary forest
68	GA068	1442.38	4802.44	Silam	—	Csba	30	D.B.	F	C	F	W	Secondary forest
69	GA069	1442.73	4802.55	Silam	—	Csba	30	D.B.	F	C	F	W	Secondary forest
70	GA070	1442.62	4802.86	Silam	basalt	Csba	25	B.	F	C	M	W	Secondary forest
71	GA071	1442.53	4799.15	Silam	vol. breccia	Csba	35	D.B.	F	C	S	W	Secondary forest
72	GA072	1441.00	4796.42	Silam	—	Csba	25	D.B.	F	C	M	W	Secondary forest
73	GA073	1441.40	4796.25	Silam	—	Csba	35	B.	F	C	M	W	Secondary forest
74	GA074	1441.08	4796.54	Silam	—	Csba	30	L.B.	R	C	F	W	Secondary forest
75	GA075	1441.41	4796.72	Silam	vol. breccia	Csba	25	Y.B.	F	C	M	W	Secondary forest
76	GA076	1441.65	4796.95	Silam	—	Csba	25	R.B.	F	C	M	W	Secondary forest
77	GA077	1441.82	4797.36	Silam	—	Csba	25	D.B.	F	C	S	W	Secondary forest
78	GA078	1441.10	4797.35	Silam	vol. breccia	Csba	30	B.	F	C	S	W	Secondary forest
79	GA079	1441.45	4797.73	Silam	vol. breccia	Csba	25	B.	F	C	M	W	Secondary forest
80	GA080	1441.23	4798.11	Silam	vol. breccia	Csba	30	Y.B.	R	C	M	W	Secondary forest
81	GA081	1441.43	4798.58	Silam	—	Csba	25	B.	R	C	M	W	Secondary forest
82	GA082	1441.05	4798.48	Silam	—	Csba	25	B.	R	C	M	W	Secondary forest
83	GA083	1441.61	4798.88	Silam	—	Csba	30	B.	R	C	M	W	Secondary forest
84	GA084	1441.80	4799.30	Silam	—	Csba	30	B.	R	C	S	W	Secondary forest
85	GA085	1441.51	4799.35	Silam	basalt	Csba	25	B.	F	C	S	W	Secondary forest
86	GA086	1441.69	4799.75	Silam	basalt	Csba	25	L.B.	F	C	F	W	Secondary forest
87	GA087	1441.40	4799.75	Silam	basalt	Csba	25	B.	R	C	S	W	Cocoa plantation
88	GA088	1441.68	4800.30	Silam	—	Csba	30	B.	F	C	F	W	Secondary forest
89	GA089	1440.94	4800.17	Silam	basalt	Csba	25	B.	R	C	M	W	Cocoa plantation
90	GA090	1441.40	4800.60	Silam	—	Csba	30	D.B.	F	C	M	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)  
 \*\*Grain size: Sandy (S), Clayey (C)  
 \*\*3Topography: Steep (S), Moderate (M), Flat (F)  
 \*\*Humidity: Dry (D), Wet (W)



Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
91	GA091	1441.58	4800.90	Silam	basalt	Csba	30	D.B.	F	C	M	W	Secondary forest
92	GA092	1441.45	4801.22	Silam	—	Csba	35	D.B.	R	C	F	W	Vesitable firm
93	GA093	1441.86	4801.36	Silam	—	Csba	30	Y.B.	R	C	M	W	Secondary forest
94	GA094	1441.02	4801.90	Silam	—	Csba	25	B.G.	F	C	F	W	Secondary forest
95	GA095	1441.48	4801.96	Silam	—	Csba	30	D.B.	F	C	F	W	Secondary forest
96	GA096	1441.81	4802.28	Silam	—	Csba	35	L.B.	R	C	S	W	Secondary forest
97	GA097	1441.33	4802.65	Silam	—	Csba	30	B.G.	R	C	F	W	Secondary forest
98	GA098	1441.79	4802.86	Silam	—	Csba	30	D.B.	F	C	M	W	Secondary forest
99	GA099	1441.11	4802.92	Silam	—	Csba	25	B.	R	C	F	W	Secondary forest
100	GA100	1441.13	4797.82	Silam	—	Csba	25	B.	F	C	M	W	Secondary forest
101	GA101	1440.26	4794.42	Silam	—	Csba	30	D.G.B.	F	C	S	W	Primary forest
102	GA102	1440.53	4794.83	Silam	—	Csba	30	B.	F	C	M	W	Primary forest
103	GA103	1440.12	4794.77	Silam	—	Csba	30	B.	F	C	M	W	Primary forest
104	GA104	1440.12	4795.44	Silam	—	Csba	25	B.	F	C	S	W	Primary forest
105	GA105	1440.85	4798.30	Silam	—	Csba	30	D.B.	F	C	S	W	Primary forest
106	GA106	1440.23	4795.96	Silam	—	Csba	25	B.	R	C	S	W	Secondary forest
107	GA107	1440.36	4796.27	Silam	—	Csba	30	Y.B.	R	C	M	W	Secondary forest
108	GA108	1440.66	4796.87	Silam	vol. breccia	Csba	25	L.B.	F	C	F	W	Secondary forest
109	GA109	1440.25	4796.87	Silam	vol. breccia	Csba	30	D.B.	M	C	S	W	Secondary forest
110	GA110	1440.15	4796.56	Silam	vol. breccia	Csba	30	Y.B.	F	C	F	W	Secondary forest
111	GA111	1440.54	4797.20	Silam	—	Csba	25	D.B.	F	C	S	W	Secondary forest
112	GA112	1440.23	4797.50	Silam	—	Csba	20	B.	R	C	M	W	Secondary forest
113	GA113	1440.71	4797.67	Silam	—	Csba	30	B.	F	C	S	W	Secondary forest
114	GA114	1440.45	4797.88	Silam	—	Csch	30	B.	F	C	M	W	Secondary forest
115	GA115	1440.16	4798.22	Silam	basalt	Csba	30	B.	R	C	M	W	Secondary forest
116	GA116	1440.68	4798.27	Silam	—	Csba	30	B.	R	C	M	W	Secondary forest
117	GA117	1440.64	4798.68	Silam	—	Csba	25	B.	R	C	M	W	Secondary forest
118	GA118	1440.35	4798.96	Silam	—	Csba	25	B.	R	C	M	W	Secondary forest
119	GA119	1440.46	4799.20	Silam	basalt	Csba	30	B.	F	C	M	W	Cocoa plantation
120	GA120	1440.87	4799.40	Silam	basalt	Csba	30	B.	F	C	M	W	Cocoa plantation

\*1Gravel: Many (M), Few (F), Rare or none (R) \*2Grain size: Sandy (S), Clayey (C)

\*\*Topography: Steep (S), Moderate (M), Flat (F) \*\*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates N E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegetation
121	GAI21	1440.46	4799.84	Silam	basalt	Csba	25	R.B.	C	M	W	Cocoa plantation
122	GAI22	1440.22	4799.87	Silam	basalt	Csba	25	R.B.	C	M	W	Cocoa plantation
123	GAI23	1440.27	4800.18	Silam	---	Csba	30	R.B.	C	M	W	Secondary forest
124	GAI24	1440.16	4800.52	Silam	basalt	Csch	30	E.	C	F	W	Cocoa plantation
125	GAI25	1440.11	4800.76	Silam	basalt	Csba	30	R.B.	C	M	W	Secondary forest
126	GAI26	1440.57	4801.16	Silam	---	Csba	25	B.	C	M	W	Secondary forest
127	GAI27	1440.34	4801.46	Silam	---	Csba	25	L.B.	C	M	W	Secondary forest
128	GAI28	1440.55	4801.91	Silam	basalt	Csba	25	E.	C	M	W	Secondary forest
129	GAI29	1440.20	4801.78	Silam	basalt	Csba	30	B.G.	C	M	W	Secondary forest
130	GAI30	1440.75	4802.23	Silam	basalt	Csba	30	D.B.	C	F	W	Secondary forest
131	GAI31	1440.36	4802.42	Silam	basalt	Csba	25	G.	C	M	W	Secondary forest
132	GAI32	1440.66	4802.73	Silam	---	Csba	25	G.	C	F	W	Secondary forest
133	GAI33	1440.43	4802.87	Silam	---	Csba	30	B.G.	C	F	W	Vesitable firm
134	GAI34	1434.50	4800.14	Silam	---	Gs	10	E.	C	M	W	Secondary forest
135	GAI35	1439.05	4793.29	Silam	---	P4Km	25	Y.B.	C	M	W	Secondary forest
136	GAI36	1439.44	4793.62	Silam	---	P4Km	35	R.B.	C	S	W	Secondary forest
137	GAI37	1439.19	4793.90	Silam	---	P4Km	35	B.	C	S	W	Secondary forest
138	GAI38	1439.05	4794.18	Silam	---	P4Km	25	Y.B.	C	S	W	Secondary forest
139	GAI39	1439.53	4794.18	Silam	---	P4Km	30	B.	C	S	W	Secondary forest
140	GAI40	1439.16	4794.54	Silam	---	P4Km	35	Y.B.	C	S	W	Secondary forest
141	GAI41	1439.45	4794.93	Silam	---	P4Km	30	B.	C	M	W	Primary forest
142	GAI42	1439.77	4795.11	Silam	---	Csba	30	B.	C	S	W	Primary forest
143	GAI43	1439.62	4795.47	Silam	basalt	Csba	30	D.B.	C	S	W	Primary forest
144	GAI44	1439.02	4795.47	Silam	---	P4Km	30	B.	C	S	W	Secondary forest
145	GAI45	1439.70	4795.90	Silam	---	Csba	25	B.	C	S	W	Secondary forest
146	GAI46	1439.31	4795.89	Silam	---	Csba	25	B.	C	S	W	Secondary forest
147	GAI47	1439.18	4796.21	Silam	---	Csba	25	B.	C	S	W	Secondary forest
148	GAI48	1439.78	4796.40	Silam	---	Csba	25	R.B.	C	F	D	Secondary forest
149	GAI49	1439.56	4796.95	Silam	basalt	Csba	30	B.	C	M	W	Secondary forest
150	GAI50	1439.10	4796.86	Silam	---	Csba	25	B.	C	M	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)  
 \*\*Grain size: Sandy (S), Clayey (C)  
 \*\*Topography: Steep (S), Moderate (M), Flat (F)  
 \*\*Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates N E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
151	GA151	1439.23	4797.20	—	Csba	20	B.	R	C	F	W	Cocoa plantation
152	GA152	1439.52	4797.35	basalt	Csba	20	R.B.	R	C	M	W	Cocoa plantation
153	GA153	1439.80	4797.65	—	Csba	25	B.	R	C	S	W	Secondary forest
154	GA154	1439.80	4797.84	—	Csba	25	R.B.	R	C	M	W	Cocoa plantation
155	GA155	1439.12	4797.82	—	Csba	20	R.B.	R	C	M	W	Secondary forest
156	GA156	1439.76	4798.17	—	Q <sub>2</sub>	30	B.	R	C	M	W	Cocoa plantation
157	GA157	1439.18	4798.13	—	Csba	25	B.	R	C	M	W	Cocoa plantation
158	GA158	1439.52	4798.41	—	Q <sub>2</sub>	25	B.	R	C	M	W	Cocoa plantation
159	GA159	1439.30	4798.47	—	Q <sub>2</sub>	25	D.B.	R	C	F	W	Cocoa plantation
160	GA160	1439.35	4798.80	basalt	Csba	15	D.B.	R	C	M	W	Cocoa plantation
161	GA161	1439.15	4799.16	basalt	Csba	20	D.B.	R	C	M	W	Plantation
162	GA162	1439.73	4799.28	—	Q <sub>2</sub>	30	D.B.	F	C	F	W	Firm
163	GA163	1439.98	4799.45	basalt	Csba	25	R.B.	F	C	M	W	Secondary forest
164	GA164	1439.10	4799.52	basalt	Csba	30	D.B.	F	C	M	W	Cocoa plantation
165	GA165	1435.12	4797.60	—	Csba	30	B.	F	C	F	W	Cocoa plantation
166	GA166	1439.84	4800.92	basalt	Csba	25	B.G.	F	C	S	W	Secondary forest
167	GA167	1439.51	4800.85	basalt	Csba	25	R.B.	F	C	M	W	Secondary forest
168	GA168	1439.73	4801.16	basalt	Csba	25	R.B.	R	C	M	W	Secondary forest
169	GA169	1439.67	4801.54	—	Csba	30	R.B.	R	C	M	W	Secondary forest
170	GA170	1439.78	4801.88	—	Csba	30	D.B.	R	C	F	W	Cocoa plantation
171	GA171	1439.90	4802.21	basalt	Csba	25	B.	F	C	M	W	Secondary forest
172	GA172	1439.99	4802.50	—	Csba	25	D.B.	R	C	M	W	Cocoa plantation
173	GA173	1439.13	4802.47	basalt	Csba	25	L.B.	F	C	S	W	Primary forest
174	GA174	1439.80	4802.87	basalt	Csba	25	B.G.	R	C	M	W	Secondary forest
175	GA175	1439.35	4802.87	basalt	Csba	30	B.	M	C	M	W	Secondary forest
176	GA176	1438.50	4793.10	—	P <sub>4</sub> Km	30	B.G.	F	C	S	W	Cocoa plantation
177	GA177	1438.32	4793.27	—	P <sub>4</sub> Km	25	D.B.	F	C	S	W	Cocoa plantation
178	GA178	1438.13	4793.59	—	P <sub>4</sub> Km	30	D.B.	F	C	S	W	Cocoa plantation
179	GA179	1438.49	4793.76	—	P <sub>4</sub> Km	30	L.B.	F	C	S	W	Cocoa plantation
180	GA180	1438.16	4793.87	—	P <sub>4</sub> Km	25	B.	F	C	M	W	Cocoa plantation

\*<sup>1</sup>Gravel: Many (M), Few (F), Rare or none (R)  
 \*<sup>2</sup>Topography: Steep (S), Moderate (M), Flat (F)  
 \*<sup>3</sup>Grain size: Sandy (S), Clayey (C)  
 \*<sup>4</sup>Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates N E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegetation
181	GA181	1438.70	Silam	—	P <sub>4</sub> Km	35	Y.B.	F	C	S	W	Secondary forest
182	GA182	4794.46	Silam	—	P <sub>4</sub> Km	35	R.B.	R	C	S	W	Secondary forest
183	GA183	4794.37	Silam	—	P <sub>4</sub> Km	30	Y.B.	R	C	M	W	Cocoa plantation
184	GA184	4794.75	Silam	—	P <sub>4</sub> Km	25	R.B.	R	C	F	W	Secondary forest
185	GA185	4795.22	Silam	—	P <sub>4</sub> Km	30	B.	F	C	S	W	Secondary forest
186	GA186	4795.18	Silam	—	P <sub>4</sub> Km	30	B.	R	C	S	W	Secondary forest
187	GA187	4795.57	Silam	—	Csba	25	B.	R	C	M	W	Secondary forest
188	GA188	4799.56	Silam	basalt	Csba	25	R.B.	R	C	M	W	Cocoa plantation
189	GA189	4795.56	Silam	—	Csba	30	B.	R	C	M	W	Secondary forest
190	GA190	4795.87	Silam	basalt	Csba	25	L.B.	F	C	M	W	Secondary forest
191	GA191	4796.16	Silam	basalt	Csba	30	B.	F	C	S	W	Secondary forest
192	GA192	4796.56	Silam	basalt	Csba	25	B.	R	C	M	W	Secondary forest
193	GA193	4796.39	Silam	basalt	Csba	30	B.	R	C	S	W	Cocoa plantation
194	GA194	4796.82	Silam	basalt	Csba	30	B.	F	C	M	W	Cocoa plantation
195	GA195	4796.94	Silam	basalt	Csba	25	B.	F	C	S	W	Cocoa plantation
196	GA196	4797.17	Silam	basalt	Csba	25	B.	F	C	S	W	Cocoa plantation
197	GA197	4797.67	Silam	basalt	Csba	20	D.B.	R	C	M	W	Cocoa plantation
198	GA198	4797.90	Silam	basalt	Csba	25	D.B.	R	C	M	W	Cocoa plantation
199	GA199	4798.12	Silam	basalt	Csba	30	D.B.	R	C	M	W	Cocoa plantation
200	GA200	4798.38	Silam	basalt	Csba	20	D.B.	R	C	M	W	Cocoa plantation
201	GA201	4798.75	Silam	basalt	Csba	20	D.B.	R	C	M	W	Cocoa plantation
202	GA202	4798.63	Silam	basalt	Csba	25	D.B.	R	C	M	W	Cocoa plantation
203	GA203	4799.22	Silam	basalt	Csba	35	R.B.	R	C	S	W	Secondary forest
204	GA204	4799.04	Silam	—	Csba	30	R.B.	R	C	M	W	Cocoa plantation
205	GA205	4799.67	Silam	basalt	Csba	30	D.B.	F	C	M	W	Cocoa plantation
206	GA206	4797.69	Silam	—	Csba	30	Y.B.	R	C	F	W	Cocoa plantation
207	GA207	4793.05	Silam	—	P <sub>4</sub> Km	30	B.	F	C	S	W	Cocoa plantation
208	GA208	4793.23	Silam	—	P <sub>4</sub> Km	30	B.	F	C	S	W	Cocoa plantation
209	GA209	4793.45	Silam	—	P <sub>4</sub> Km	30	L.B.	F	C	S	W	Cocoa plantation
210	GA210	4793.86	Silam	—	P <sub>4</sub> Km	20	L.B.	R	C	M	W	Primary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)

\*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. <sup>*1</sup>	S. <sup>*2</sup>	T. <sup>*3</sup>	H. <sup>*4</sup>	Vegetation
		N	E										
211	GA211	1437.87	4794.19	Silam	—	P <sub>4</sub> Km	30	L.B.	R	C	M	W	Cocoa plantation
212	GA212	1437.53	4794.40	Silam	—	P <sub>4</sub> Km	20	L.B.	F	C	F	W	Primary forest
213	GA213	1437.90	4794.77	Silam	—	P <sub>4</sub> Km	30	L.B.	R	C	F	W	Secondary forest
214	GA214	1437.71	4795.10	Silam	—	P <sub>4</sub> Km	35	B.	R	C	M	W	Cocoa plantation
215	GA215	1437.44	4794.92	Silam	—	P <sub>4</sub> Km	20	Y.B.	R	C	F	W	Oil palm plant.
216	GA216	1437.50	4795.73	Silam	—	P <sub>4</sub> Km	30	B.	F	C	M	W	Cocoa plantation
217	GA217	1437.87	4795.88	Silam	—	Csba	30	B.	F	C	M	W	Cocoa plantation
218	GA218	1437.88	4796.16	Silam	—	Csba	30	B.	F	C	F	W	Cocoa plantation
219	GA219	1437.38	4796.16	Silam	—	P <sub>4</sub> Km	20	B.	R	S	F	W	Cocoa plantation
220	GA220	1437.88	4796.62	Silam	—	Csba	30	B.	F	C	F	W	Cocoa plantation
221	GA221	1437.37	4796.86	Silam	—	P <sub>4</sub> Km	30	B.	F	C	F	W	Cocoa plantation
222	GA222	1437.89	4797.17	Silam	—	Csba	25	Y.B.	R	C	M	W	Cocoa plantation
223	GA223	1437.45	4797.18	Silam	—	Csba	30	B.	R	C	F	W	Cocoa plantation
224	GA224	1437.73	4797.60	Silam	—	Q <sub>2</sub>	35	L.B.	R	C	M	W	Cocoa plantation
225	GA225	1437.29	4797.70	Silam	—	Csba	35	D.B.	R	C	F	W	Cocoa plantation
226	GA226	1437.57	4798.10	Silam	vol. breccia	Csba	35	L.B.	F	C	S	W	Cocoa plantation
227	GA227	1437.84	4798.27	Silam	basalt	Csba	25	D.B.	R	C	S	W	Cocoa plantation
228	GA228	1437.50	4798.55	Silam	—	Csba	30	L.B.	R	C	F	W	Cocoa plantation
229	GA229	1437.87	4798.83	Silam	basalt	Csba	25	D.B.	R	C	M	W	Cocoa plantation
230	GA230	1437.62	4799.05	Silam	—	Csba	30	B.	R	C	F	W	Cocoa plantation
231	GA231	1437.75	4799.35	Silam	—	Q <sub>2</sub>	30	B.	F	C	F	W	Cocoa plantation
232	GA232	1437.30	4799.92	Silam	—	Csba	30	D.B.	R	C	F	W	Cocoa plantation
233	GA233	1437.48	4800.20	Silam	—	Csba	25	B.G.	R	C	F	W	Cocoa plantation
234	GA234	1437.89	4800.60	Silam	basalt	Csba	30	R.B.	R	C	M	W	Secondary forest
235	GA235	1437.40	4795.33	Silam	—	P <sub>4</sub> Km	30	D.B.	F	C	F	W	Cocoa plantation
236	GA236	1437.07	4795.75	Silam	—	P <sub>4</sub> Km	10	L.B.	F	C	M	W	Secondary forest
237	GA237	1437.12	4793.10	Silam	—	P <sub>4</sub> Km	30	R.B.	R	C	S	W	Cocoa plantation
238	GA238	1437.28	4799.15	Silam	—	Csba	30	D.B.	R	C	F	W	Cocoa plantation
239	GA239	1437.26	4798.65	Silam	—	Csba	30	D.B.	R	C	F	W	Cocoa plantation
240	GA240	1436.86	4793.54	Silam	—	P <sub>4</sub> Km	20	L.B.	F	C	F	W	Primary forest

\*<sup>1</sup>Gravel: Many (M), Few (F), Rare or none (R)

\*<sup>2</sup>Grain size: Sandy (S), Clayey (C)

\*<sup>3</sup>Topography: Steep (S), Moderate (M), Flat (F)

\*<sup>4</sup>Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
241	GA241	1436.42	4793.40	Silam	—	P <sub>4</sub> Km	20	L.B.	R	C	F	W	Primary forest
242	GA242	1436.15	4793.28	Silam	—	P <sub>4</sub> Km	20	B.	R	C	M	W	Primary forest
243	GA243	1436.30	4793.72	Silam	—	P <sub>4</sub> Km	20	L.B.	R	C	F	W	Primary forest
244	GA244	1436.61	4794.18	Silam	—	P <sub>4</sub> Km	20	Y.	F	C	M	W	Secondary forest
245	GA245	1436.16	4794.52	Silam	—	P <sub>4</sub> Km	30	Y.	F	C	F	W	Secondary forest
246	GA246	1436.73	4794.90	Silam	—	P <sub>4</sub> Km	20	B.	F	C	M	W	Secondary forest
247	GA247	1436.26	4794.87	Silam	—	P <sub>4</sub> Km	20	L.B.	R	C	F	W	Secondary forest
248	GA248	1436.60	4795.32	Silam	—	P <sub>4</sub> Km	10	L.B.	R	C	F	W	Secondary forest
249	GA249	1436.83	4795.60	Silam	—	P <sub>4</sub> Km	10	L.B.	R	C	M	W	Oil palm plant.
250	GA250	1436.15	4795.65	Silam	—	P <sub>4</sub> Km	10	D.B.	F	C	M	W	Oil palm plant.
251	GA251	1436.57	4796.08	Silam	—	P <sub>4</sub> Km	10	B.	R	C	M	W	Cocoa plantation
252	GA252	1436.80	4796.39	Silam	—	P <sub>4</sub> Km	10	L.B.	R	C	M	W	Cocoa plantation
253	GA253	1436.20	4796.61	Silam	—	P <sub>4</sub> Km	20	L.B.	R	S	M	D	Cocoa plantation
254	GA254	1436.64	4796.85	Silam	—	P <sub>4</sub> Km	30	L.B.	R	C	M	W	Cocoa plantation
255	GA255	1436.80	4797.32	Silam	—	P <sub>4</sub> Km	30	L.B.	R	C	M	W	Cocoa plantation
256	GA256	1436.37	4797.18	Silam	—	P <sub>4</sub> Km	30	B.	R	C	S	W	Cocoa plantation
257	GA257	1436.88	4797.65	Silam	—	Csba	30	R.B.	R	C	F	W	Cocoa plantation
258	GA258	1436.29	4797.72	Silam	basalt	Csba	25	B.	F	C	F	W	Cocoa plantation
259	GA259	1436.22	4798.34	Silam	—	Csba	20	B.	F	C	M	W	Cocoa plantation
260	GA260	1436.54	4798.47	Silam	basalt	Csba	30	B.	F	C	M	D	Cocoa plantation
261	GA261	1436.89	4798.81	Silam	—	Csba	30	Y.B.	R	C	M	W	Cocoa plantation
262	GA262	1436.45	4798.80	Silam	basalt	Csba	20	R.B.	F	C	S	W	Cocoa plantation
263	GA263	1436.30	4799.13	Silam	—	Csba	30	D.B.	R	C	M	W	Cocoa plantation
264	GA264	1436.95	4799.26	Silam	—	Csba	30	D.B.	F	C	F	W	Cocoa plantation
265	GA265	1436.54	4799.43	Silam	—	Csba	30	B.	R	C	F	W	Cocoa plantation
266	GA266	1436.62	4799.88	Silam	—	Csba	30	D.B.	R	C	F	W	Cocoa plantation
267	GA267	1436.17	4799.73	Silam	—	Q <sub>2</sub>	30	R.B.	R	C	M	W	Secondary forest
268	GA268	1436.41	4800.18	Silam	—	Q <sub>2</sub>	30	B.	R	C	F	W	Cocoa plantation
269	GA269	1436.61	4800.71	Silam	—	Csba	30	D.B.	R	C	F	W	Farm
270	GA270	1436.47	4801.40	Silam	basalt	Csba	30	R.B.	F	C	S	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*\*Grain size: Sandy (S), Clayey (C)

\*\*3Topography: Steep (S), Moderate (M), Flat (F)

\*\*Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
271	GA271	1436.85	4798.18	Silam	—	Csba	30	D.B.	R	C	F	W	Cocoa plantation
272	GA272	1436.46	4795.89	Silam	—	P.Km	10	L.B.	M	C	M	W	Cocoa plantation
273	GA273	1435.77	4793.12	Silam	—	P.Km	20	B.	R	C	F	W	Secondary forest
274	GA274	1435.20	4793.08	Silam	—	P.Km	15	L.B.	M	S	M	D	Secondary forest
275	GA275	1435.91	4793.70	Silam	—	P.Km	10	B.	R	C	F	W	Primary forest
276	GA276	1435.43	4793.73	Silam	—	P.Km	20	L.B.	F	C	M	W	Primary forest
277	GA277	1435.91	4794.12	Silam	—	P.Km	10	L.B.	R	S	F	D	Primary forest
278	GA278	1435.13	4794.24	Silam	—	P.Km	10	Y.	R	S	M	D	Cocoa plantation
279	GA279	1435.89	4794.77	Silam	—	P.Km	10	L.B.	R	C	M	W	Cocoa plantation
280	GA280	1435.45	4794.74	Silam	—	P.Km	20	B.	R	C	M	W	Cocoa plantation
281	GA281	1435.75	4795.26	Silam	—	P.Km	10	Y.B.	R	S	F	D	Secondary forest
282	GA282	1435.25	4795.13	Silam	—	P.Km	10	Y.B.	R	S	F	W	Secondary forest
283	GA283	1435.58	4795.67	Silam	—	P.Km	20	Y.B.	M	S	F	W	Secondary forest
284	GA284	1435.82	4795.83	Silam	—	P.Km	15	D.B.	M	C	M	W	Cocoa plantation
285	GA285	1435.22	4795.77	Silam	—	P.Km	15	L.B.	R	C	M	W	Cocoa plantation
286	GA286	1435.20	4796.17	Silam	—	P.Km	40	B.	F	C	M	W	Cocoa plantation
287	GA287	1435.89	4796.48	Silam	—	P.Km	10	B.	R	C	M	W	Cocoa plantation
288	GA288	1435.58	4796.38	Silam	—	P.Km	10	L.B.	R	S	M	D	Cocoa plantation
289	GA289	1435.12	4796.79	Silam	—	Csba	30	B.	F	C	M	W	Cocoa plantation
290	GA290	1435.36	4797.17	Silam	—	Kmb	30	L.B.	F	C	M	W	Cocoa plantation
291	GA291	1435.67	4797.38	Silam	—	Csba	30	B.	F	C	S	W	Cocoa plantation
292	GA292	1435.76	4797.77	Silam	basalt	Csba	25	B.	R	C	F	W	Cocoa plantation
293	GA293	1435.49	4797.86	Silam	—	Csba	25	R.B.	F	C	F	D	Secondary forest
294	GA294	1435.47	4798.17	Silam	basalt	Csba	30	R.B.	F	C	S	W	Secondary forest
295	GA295	1435.87	4798.38	Silam	basalt	Csba	20	R.B.	R	C	S	W	Secondary forest
296	GA296	1435.71	4798.83	Silam	basalt	Csba	20	R.B.	F	C	M	D	Secondary forest
297	GA297	1435.22	4798.86	Silam	basalt	Csba	25	R.B.	F	S	M	W	Secondary forest
298	GA298	1435.85	4799.19	Silam	basalt	Csba	30	R.B.	R	C	M	W	Secondary forest
299	GA299	1435.55	4799.25	Silam	basalt	Csba	30	D.B.	F	C	M	W	Secondary forest
300	GA300	1435.82	4799.58	Silam	basalt	P.Km	30	R.B.	F	C	M	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)  
 \*2Grain size: Sandy (S), Clayey (C)  
 \*3Topography: Steep (S), Moderate (M), Flat (F)  
 \*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
301	GA301	1435.92	4800.40	Silam	—	Csba	30	R.B.	R	C	M	W	Primary forest
302	GA302	1435.65	4800.48	Silam	—	Csba	25	R.B.	R	C	M	W	Primary forest
303	GA303	1435.48	4800.18	Silam	—	Csba	25	L.B.	R	C	M	W	Secondary forest
304	GA304	1435.18	4800.62	Silam	—	Gs	30	R.B.	R	C	S	W	Secondary forest
305	GA305	1435.94	4801.66	Silam	basalt	Csba	30	R.B.	R	C	M	W	Secondary forest
306	GA306	1434.90	4793.35	Silam	sandstone	P.Km	10	B.	R	S	M	D	Secondary forest
307	GA307	1434.63	4793.45	Silam	sandstone	P.Km	20	L.B.	M	S	M	W	Secondary forest
308	GA308	1434.18	4793.28	Silam	—	P.Km	30	B.	R	S	F	D	Secondary forest
309	GA309	1434.84	4793.79	Silam	—	P.Km	10	L.B.	F	C	S	W	Primary forest
310	GA310	1434.27	4793.80	Silam	—	P.Km	10	Y.	R	S	M	D	Cocoa plantation
311	GA311	1434.44	4794.11	Silam	sandstone	P.Km	20	L.B.	M	S	M	W	Cocoa plantation
312	GA312	1434.12	4794.36	Silam	—	P.Km	10	Y.	R	S	M	D	Cocoa plantation
313	GA313	1434.85	4794.45	Silam	sandstone	P.Km	20	L.B.	F	C	M	W	Cocoa plantation
314	GA314	1434.12	4794.75	Silam	sandstone	P.Km	10	B.	M	S	M	D	Cocoa plantation
315	GA315	1434.74	4795.00	Silam	—	P.Km	15	L.B.	R	C	M	W	Cocoa plantation
316	GA316	1434.80	4795.26	Silam	—	P.Km	15	Y.B.	R	S	F	W	Cocoa plantation
317	GA317	1434.24	4795.35	Silam	—	P.Km	15	B.	R	S	F	D	Cocoa plantation
318	GA318	1434.80	4795.81	Silam	sandstone	P.Km	20	L.B.	R	C	F	W	Cocoa plantation
319	GA319	1434.43	4795.85	Silam	—	P.Km	10	Y.	R	S	M	D	Cocoa plantation
320	GA320	1434.07	4795.80	Silam	—	P.Km	10	Y.	R	S	M	D	Cocoa plantation
321	GA321	1434.86	4796.10	Silam	—	Csba	15	B.	F	C	M	W	Cocoa plantation
322	GA322	1434.43	4796.26	Silam	—	Csba	10	B.	M	S	M	D	Cocoa plantation
323	GA323	1434.66	4796.46	Silam	—	Csba	30	B.	F	C	M	W	Cocoa plantation
324	GA324	1434.85	4796.62	Silam	—	Csba	20	B.	F	C	M	W	Cocoa plantation
325	GA325	1434.19	4796.45	Silam	—	P.Km	10	L.B.	R	C	M	W	Cocoa plantation
326	GA326	1434.42	4797.16	Silam	—	Csba	10	L.B.	F	C	M	W	Cocoa plantation
327	GA327	1434.36	4797.32	Silam	—	Csba	20	B.	F	C	M	W	Cocoa plantation
328	GA328	1434.70	4797.56	Silam	—	Csba	30	R.B.	R	C	S	W	Cocoa plantation
329	GA329	1434.48	4797.74	Silam	—	Csba	30	B.	R	C	F	W	Cocoa plantation
330	GA330	1434.12	4797.67	Silam	—	P.Km	10	R.B.	F	C	M	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)

\*4Humidity: Dry (D), Wet (W)



Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegetation
		N	E										
331	GA331	1434.59	4798.12	Silam	—	Csba	30	R.B.	F	C	M	W	Cocoa plantation
332	GA332	1434.75	4798.43	Silam	—	Csba	30	R.B.	F	C	M	D	Cocoa plantation
333	GA333	1434.92	4798.65	Silam	basalt	Csba	25	R.B.	F	C	S	D	Cocoa plantation
334	GA334	1434.86	4799.34	Silam	—	Csba	25	Y.B.	F	C	M	W	Primary forest
335	GA335	1434.15	4799.35	Silam	—	Csba	30	B.	F	C	M	W	Secondary forest
336	GA336	1434.07	4799.88	Silam	—	Gs	20	L.B.	F	C	M	W	Cocoa plantation
337	GA337	1434.18	4800.17	Silam	phyllitic rock	Gs	10	L.G.	M	C	S	D	Secondary forest
338	GA338	1434.83	4800.34	Silam	—	Q <sub>2</sub>	25	Y.B.	M	C	S	W	Secondary forest
339	GA339	1434.55	4794.54	Silam	—	P4Km	10	L.B.	M	S	M	W	Cocoa plantation
340	GA340	1434.10	4796.77	Silam	—	Csba	10	Y.	F	S	M	D	Cocoa plantation

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)

\*4Humidity: Dry (D), Wet (W)

Appendix 18

Analytical results of soil  
geochemical samples in Area A



List of Geochemical Analysis ( 1 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppbb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
1	GA001	4799.850 1444.880	40	2	3	183	1356	29	55	.01	11.17	1827	1	.07	3208	2	.013	4.6	1	.02	2	2	125
2	GA002	4800.150 1444.830	30	1	8	217	4672	35	64	.01	9.62	2333	1	.09	3549	2	.014	15.2	3	.05	2	2	139
3	GA003	4802.110 1444.900	26	1	12	251	5623	16	55	.01	13.83	3055	1	.06	2443	2	.008	12.2	2	.07	2	2	180
4	GA004	4798.960 1444.430	29	1	12	283	5708	31	105	.01	10.63	3112	1	.04	2567	2	.019	20.2	3	.20	2	2	153
5	GA005	4801.700 1444.630	1	1	14	233	5908	22	35	.01	12.51	2308	1	.08	3162	2	.008	17.9	2	.04	2	2	169
6	GA006	4801.960 1444.530	18	1	15	43	533	55	14	.10	3.72	1062	1	1.95	209	2	.033	4.2	154	.31	2	2	74
7	GA007	4800.470 1444.430	27	1	75	118	848	51	25	.09	2.42	1418	2	.99	772	2	.010	10.8	26	.83	1.2	2	85
8	GA008	4798.330 1444.100	3	1	33	41	154	75	18	.09	1.36	1161	2	1.82	59	2	.030	5.8	107	.51	2	2	76
9	GA009	4799.680 1444.300	1	1	28	34	73	90	25	.05	.61	450	2	.70	98	2	.017	5.4	32	.79	4	2	79
10	GA010	4799.170 1444.080	1	1	28	37	92	46	40	.03	.73	1217	2	1.46	99	2	.025	8.5	93	.43	2	2	47
11	GA011	4799.480 1444.290	1	1	14	32	372	52	42	.03	2.19	541	1	1.49	131	2	.025	5.0	101	.35	2	2	60
12	GA012	4799.880 1444.080	54	3	46	103	2159	68	32	.08	4.71	1233	1	.29	1750	2	.019	16.2	14	.51	4	2	111
13	GA013	4800.250 1444.050	1	1	57	40	139	72	19	.07	1.51	1156	1	2.54	147	2	.019	11.3	204	.55	2	2	65
14	GA014	4800.770 1444.090	7	3	23	173	1623	37	59	.01	1.51	2762	1	.47	572	2	.017	18.6	17	1.25	2	2	110
15	GA015	4801.120 1444.050	1	1	3	27	147	802	45	.01	1.12	2915	2	.76	404	2	.013	3.7	23	1.02	4	2	86
16	GA016	4801.500 1444.190	33	1	88	205	4571	51	67	.06	6.25	2003	1	.38	2865	2	.015	22.5	20	.44	6	2	138
17	GA017	4801.810 1444.410	1	1	3	40	338	69	30	.02	.70	1397	1	2.33	26	2	.017	8.9	70	.67	2	2	67
18	GA018	4802.310 1444.410	1	1	45	40	338	35	25	.10	2.30	806	2	1.98	143	2	.029	4.9	140	.39	4	2	60
19	GA019	4802.850 1444.540	37	1	19	136	2465	18	85	.01	1.15	1474	1	.05	1833	2	.012	4.5	4	.07	2	2	125
20	GA020	4797.270 1443.040	1	1	6	77	104	124	26	.32	3.64	1779	1	2.07	64	2	.016	5.3	66	.57	4	2	307
21	GA021	4797.600 1443.110	1	1	70	28	165	42	20	.14	1.55	988	2	1.86	65	2	.030	5.1	111	.41	4	2	68
22	GA022	4797.900 1443.600	1	1	99	30	223	60	30	.20	1.33	517	1	.89	97	2	.018	5.2	86	.56	4	2	76
23	GA023	4798.240 1443.850	3	1	82	46	393	33	48	.17	2.44	1188	1	1.39	245	2	.011	7.9	101	.76	6	2	76
24	GA024	4798.280 1443.350	1	1	59	8	144	13	28	.28	.35	5	2	2.83	44	5	.013	5.5	16	.81	2	2	35
25	GA025	4798.780 1443.460	1	1	23	39	54	30	54	.01	.71	1430	1	.08	44	2	.020	7.4	71	.70	2	2	65
26	GA026	4799.150 1443.730	1	1	232	15	71	20	32	.04	.55	182	2	1.19	34	5	.013	5.0	52	.48	2.4	2	58
27	GA027	4799.130 1443.100	1	1	26	65	282	64	40	.25	1.81	1878	2	1.63	82	13	.007	6.6	78	.87	2	2	71
28	GA028	4799.570 1443.830	7	1	199	13	60	25	42	1.51	.89	64	3	4.44	43	2	.021	9.9	53	.70	2	2	86
29	GA029	4799.860 1443.310	1	10	49	57	203	63	73	.01	1.50	1893	1	1.63	81	2	.020	7.9	87	.73	2	2	94
30	GA030	4800.130 1443.430	12	1	27	104	148	62	52	.06	1.74	1745	1	1.96	71	2	.030	7.9	87	.73	2	2	83
31	GA031	4800.420 1443.760	1	6	35	140	381	56	93	.03	.64	3473	1	1.19	54	2	.014	1.7	23	1.13	2	2	77
32	GA032	4800.800 1443.220	2	1	27	104	148	92	40	.01	.48	2917	2	1.52	116	2	.021	8.4	15	1.20	2	2	63
33	GA033	4800.880 1443.620	1	1	32	47	71	57	12	.02	1.64	1819	1	1.16	45	2	.024	8.6	109	.73	2	2	101
34	GA034	4801.170 1443.600	1	1	45	48	126	60	44	.06	.75	1887	1	.97	57	2	.024	6.3	70	.86	6	2	103
35	GA035	4801.090 1443.060	1	1	9	64	256	85	45	.03	1.64	1610	1	1.08	83	2	.018	9.2	33	.90	2	2	67
36	GA036	4801.660 1443.100	3	1	22	71	267	65	41	.01	1.50	1601	1	1.31	83	2	.016	8.5	42	.66	2	2	96
37	GA037	4801.730 1443.820	1	1	17	78	171	64	56	.01	.31	1806	2	.55	64	2	.011	2.8	12	.63	2	2	93
38	GA038	4802.200 1443.880	14	2	16	204	4382	35	73	.01	11.70	2293	1	.18	2721	2	.023	16.1	11	.10	2	2	155
39	GA039	4802.240 1443.120	4	1	52	59	198	57	53	.10	.66	2610	2	.60	70	2	.022	2.5	33	.70	2	3	154
40	GA040	4802.640 1443.030	1	1	32	54	296	70	46	.02	1.58	1232	1	1.07	96	2	.019	12.8	54	.74	2	2	76
41	GA041	4802.750 1443.650	2	1	32	72	1090	32	51	.02	2.11	1384	1	1.68	571	2	.018	10.1	84	.42	2	2	70
42	GA042	4798.810 1443.910	1	1	26	37	198	67	41	.08	1.61	1137	2	1.57	75	2	.037	9.9	128	.43	2	2	65
43	GA043	4801.340 1443.300	1	1	43	84	227	69	45	.09	1.10	3078	3	1.54	104	2	.015	14.6	70	1.35	2	2	87
44	GA044	4796.500 1442.230	9	1	123	13	74	10	44	.46	.34	124	1	.13	40	8	.011	2.1	38	.30	2	2	31
45	GA045	4796.770 1442.530	2	1	277	29	88	127	11	2.12	1.23	3362	1	1.15	109	22	.006	6.7	39	.36	2.2	2	144
46	GA046	4796.860 1442.210	4	1	21	42	338	73	32	.04	1.89	940	1	1.73	121	2	.021	8.4	56	.66	2.2	2	78
47	GA047	4797.200 1442.800	9	1	83	12	92	44	36	.83	.46	5	4	.09	59	5	.007	2.2	17	.33	2.6	2	45
48	GA048	4797.300 1442.220	1	1	26	56	324	66	52	.01	1.59	1026	1	1.89	96	2	.020	13.1	51	.53	2	2	71
49	GA049	4797.680 1442.180	1	1	47	40	270	74	48	.18	1.97	841	1	1.41	83	2	.023	11.4	61	.98	2	2	94
50	GA050	4797.850 1442.700	1	1	40	48	292	101	24	.09	2.65	1364	1	1.43	108	2	.033	15.2	87	.68	2	2	119

List of Geochemical Analysis ( 2 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
51	GA051	4798.210 1442.300	>	>	22	46	400	74	38	.06	2.97	937	1	1.14	178	>	.027	9.4	80	.61	>	>	80
52	GA052	4798.390 1442.670	>	>	16	47	369	82	30	.01	3.08	1427	1	.86	169	>	.035	15.4	84	.65	>	>	87
53	GA053	4798.770 1442.530	>	>	29	39	427	71	72	.07	2.86	873	1	1.43	134	>	.027	7.8	66	.83	>	>	73
54	GA054	4798.820 1442.070	4	>	36	35	88	26	41	.07	1.46	1043	1	2.47	40	>	.011	7.8	67	.93	>	>	63
55	GA055	4799.300 1442.120	>	3	26	43	340	78	60	.07	1.97	773	2	1.20	90	>	.035	11.7	111	.71	>	>	82
55	GA056	4799.600 1442.710	>	>	30	43	190	57	53	.06	1.78	1248	1	2.70	82	>	.022	2.8	94	.60	>	>	86
58	GA059	4799.870 1442.170	>	>	11	42	578	107	44	.02	2.27	943	1	1.47	242	>	.031	17.8	58	.72	>	>	134
59	GA059	4800.280 1442.780	>	>	31	39	204	61	22	.17	1.41	1571	1	1.20	75	>	.026	10.4	79	.77	>	>	88
60	GA060	4800.180 1442.110	>	>	22	55	418	99	28	.40	2.22	1207	1	1.33	139	>	.036	8.3	91	.51	>	>	80
61	GA061	4800.500 1442.070	>	>	12	45	231	64	10	.04	2.63	1097	1	1.72	89	>	.029	10.6	68	.63	>	>	79
62	GA062	4800.880 1442.340	>	>	17	47	417	82	26	.04	3.97	972	1	.94	242	>	.024	11.2	56	.82	>	>	105
63	GA063	4801.200 1442.350	>	>	16	59	187	74	12	.05	2.98	1557	1	1.99	79	>	.021	11.7	74	.75	>	>	109
64	GA064	4801.480 1442.140	>	>	21	63	443	78	51	.02	1.46	1696	4	1.46	116	>	.019	13.7	54	.96	>	>	76
55	GA065	4801.770 1442.770	>	>	35	40	313	76	49	.03	1.70	1339	1	.97	122	>	.028	6.0	69	.57	>	>	96
56	GA066	4801.820 1442.450	>	>	21	59	446	115	38	.03	2.31	1859	1	1.12	147	>	.022	13.2	61	.85	>	>	147
57	GA067	4802.120 1442.860	>	>	19	38	262	57	45	.05	1.35	1125	1	1.15	92	>	.017	8.3	56	.53	>	>	94
68	GA068	4802.440 1442.380	>	>	27	92	373	84	117	.02	1.37	3017	2	1.65	121	>	.027	14.5	58	.93	>	>	78
69	GA069	4802.550 1442.730	>	>	22	59	301	76	47	.03	1.95	2315	3	1.47	112	>	.025	13.8	60	.80	>	>	90
70	GA070	4802.860 1442.620	>	>	16	51	349	88	28	.03	2.25	1815	3	1.75	154	>	.020	12.0	76	.70	>	>	86
71	GA071	4799.150 1442.590	>	>	28	40	242	49	65	.11	1.94	1278	3	1.45	119	>	.024	12.9	71	1.08	>	>	94
72	GA072	4796.420 1441.000	>	>	48	40	256	63	30	.20	2.19	1404	3	1.88	56	>	.025	8.8	93	.81	>	>	126
73	GA073	4796.250 1441.400	>	>	28	49	193	39	36	.04	2.27	749	1	1.49	100	>	.036	11.2	127	.58	>	>	52
74	GA074	4796.540 1441.080	>	>	26	38	95	53	75	.02	.99	1337	1	2.24	40	>	.042	9.3	108	.62	>	>	56
75	GA075	4796.720 1441.410	>	>	82	28	128	38	13	.75	2.15	1247	2	1.38	61	>	.015	12.6	73	.57	>	>	95
76	GA076	4796.950 1441.650	>	>	85	38	194	51	45	.60	2.03	1305	4	1.84	87	>	.023	12.3	109	.65	>	>	77
77	GA077	4797.360 1441.820	>	>	99	27	246	52	75	.37	1.67	1102	1	1.39	102	>	.026	6.2	89	.57	>	>	83
78	GA078	4797.350 1441.100	>	>	52	40	256	108	31	.12	1.62	1193	5	2.28	69	>	.020	11.4	97	.97	>	>	90
79	GA079	4797.730 1441.450	>	>	52	58	74	63	55	.05	1.07	1795	2	1.90	45	>	.016	4.2	65	1.24	>	>	103
80	GA080	4798.110 1441.230	>	>	21	67	205	58	67	.17	.62	1313	1	1.08	48	>	.018	4.1	40	1.20	>	>	54
81	GA081	4798.580 1441.430	>	>	19	32	121	39	67	.01	.72	1543	1	1.52	52	>	.022	10.9	79	.76	>	>	71
82	GA082	4798.480 1441.050	>	>	45	45	92	17	66	.04	.86	1769	2	2.24	32	>	.014	6.4	80	1.00	>	>	46
83	GA083	4798.880 1441.610	>	>	39	36	83	69	55	.04	1.33	1189	2	2.48	39	>	.015	5.7	74	.89	>	>	133
84	GA084	4799.300 1441.800	>	>	30	29	112	52	57	.06	1.95	1379	1	2.15	61	>	.025	8.6	104	.83	>	>	102
85	GA085	4799.350 1441.510	>	>	22	36	89	83	51	.02	2.86	1042	2	1.78	55	>	.017	8.7	76	.84	>	>	86
86	GA086	4799.750 1441.690	>	>	40	145	283	94	66	.01	.78	4863	3	.59	113	>	.014	18.0	24	1.08	>	>	82
87	GA087	4799.500 1441.400	>	>	32	41	93	98	76	.01	.59	2004	2	2.03	40	>	.019	9.3	63	.86	>	>	78
88	GA088	4800.300 1441.680	>	>	1	35	254	72	64	.07	1.45	1766	3	2.18	85	>	.033	12.6	103	.70	>	>	80
89	GA089	4800.170 1440.940	>	>	29	48	290	80	58	.05	1.25	1069	1	1.24	92	>	.019	8.8	50	.61	>	>	67
90	GA090	4800.600 1441.400	>	>	40	56	241	70	45	.12	2.02	1457	3	2.07	83	>	.035	13.7	102	.69	>	>	90
91	GA091	4800.900 1441.580	>	>	21	77	311	56	86	.02	1.39	2532	3	1.30	116	>	.032	7.4	60	.86	>	>	66
92	GA092	4801.220 1441.450	>	>	24	46	192	68	62	.05	1.46	1360	3	2.23	67	>	.029	6.9	96	.68	>	>	83
93	GA093	4801.360 1441.860	>	>	16	117	389	125	45	.01	.72	1629	3	2.22	99	>	.011	8.1	7	1.09	>	>	78
94	GA094	4801.900 1441.020	>	>	19	44	196	61	81	.07	1.67	1274	3	2.02	64	>	.048	8.8	102	.63	>	>	81
95	GA095	4801.960 1441.480	>	>	15	72	148	53	64	.01	1.54	2198	2	1.37	55	>	.026	9.5	64	.86	>	>	55
96	GA096	4802.280 1441.810	>	>	14	44	404	168	73	.02	2.94	1198	1	1.82	108	>	.023	13.4	62	.61	>	>	64
97	GA097	4802.650 1441.330	>	>	15	90	342	91	45	.01	1.23	2759	1	.82	110	>	.021	14.2	42	.75	>	>	86
98	GA098	4802.860 1441.790	>	>	20	70	332	56	89	.02	1.52	1760	3	1.35	97	>	.022	4.0	42	1.06	>	>	76
99	GA099	4802.920 1441.110	>	>	16	83	331	89	103	.01	.84	2868	1	.90	101	>	.024	4.2	37	.78	>	>	78
100	GA100	4797.820 1441.130	>	>	51	55	355	80	56	.09	.62	587	2	.43	81	>	.012	5.3	27	.68	>	>	65

List of Geochemical Analysis ( 3 )

Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
	X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
101	GA101	>	>	45	40	173	97	66	18	3.27	1102	>	1.88	54	>	0.23	10.3	67	.67	>	>	66
102	GA102	>	>	16	34	137	59	51	.06	2.56	669	>	1.75	47	>	0.22	6.5	66	.70	>	>	80
103	GA103	>	>	43	33	108	54	82	.03	1.41	1095	>	1.88	53	>	0.25	7.9	97	.54	>	>	90
104	GA104	>	>	34	56	260	69	58	.14	1.35	1399	>	1.52	73	>	0.23	11.6	100	.79	>	>	94
105	GA105	>	>	30	37	237	44	42	.39	1.32	562	>	1.14	83	>	0.29	8.3	91	.45	>	>	80
106	GA106	>	>	27	27	72	98	39	.04	2.01	1198	3	2.51	83	>	0.30	12.3	107	.64	>	>	59
107	GA107	>	>	54	49	138	46	71	.18	1.31	1632	>	1.30	50	>	0.25	2.1	108	.66	2	>	58
108	GA108	>	>	17	38	65	63	34	.01	2.06	866	>	1.61	31	>	0.37	5.0	138	.86	>	>	71
109	GA109	>	>	48	37	88	46	60	.13	1.32	1291	>	2.20	28	>	0.29	6.6	104	.80	>	>	68
110	GA110	>	>	49	31	168	52	17	.24	2.22	1038	>	2.12	76	>	0.25	9.4	131	.75	>	>	60
111	GA111	>	>	68	31	99	58	60	.33	2.20	1113	>	1.51	48	>	0.36	2.2	110	.62	>	>	82
112	GA112	>	>	56	56	129	63	73	.09	1.72	1862	4	1.47	47	>	0.20	14.3	91	1.01	2	>	200
113	GA113	>	>	56	46	349	89	34	.37	1.66	985	2	1.18	111	>	0.18	9.8	56	.66	2	>	94
114	GA114	>	>	83	58	155	46	71	.15	.29	855	2	.07	42	>	0.07	4.0	18	.53	6	>	45
115	GA115	>	>	23	43	28	102	40	.01	.96	1578	>	2.33	13	>	0.12	5.0	68	.94	2	>	60
116	GA116	>	>	32	57	10	28	75	.02	.62	2395	2	2.11	3	>	0.13	8.4	58	1.71	4	>	52
117	GA117	>	>	14	52	31	94	65	.01	.39	2809	>	.93	12	>	0.12	11.3	22	1.15	>	>	74
118	GA118	>	>	50	132	307	99	44	.06	1.27	4595	>	2.66	19	>	0.17	9.1	30	.78	>	>	84
119	GA119	>	>	19	27	54	71	44	.03	1.68	1510	>	1.71	115	>	0.33	2.2	58	.75	>	>	96
120	GA120	>	>	26	52	371	64	60	.07	1.36	1251	1	1.35	118	>	0.21	9.0	48	.65	>	>	65
121	GA121	>	>	25	44	458	96	76	.02	1.96	942	2	1.68	42	>	0.30	7.2	78	1.07	2	>	79
122	GA122	>	>	14	53	101	56	67	.34	1.28	1651	2	1.58	77	>	0.38	7.2	83	.64	>	>	82
123	GA123	>	>	21	63	271	67	97	.22	1.12	1963	2	1.34	106	>	0.31	11.2	88	.64	>	>	70
124	GA124	>	>	18	47	305	74	30	.02	2.23	1345	2	1.34	106	>	0.31	11.2	88	.64	>	>	82
125	GA125	>	>	15	55	155	49	80	.02	1.11	871	3	1.65	44	>	0.14	5.7	34	.74	2	>	65
126	GA126	>	>	27	58	134	108	55	.01	2.25	1726	3	1.48	48	>	0.18	10.9	48	1.01	>	>	80
127	GA127	>	>	10	38	173	136	55	.01	2.23	1321	>	1.04	52	>	0.16	5.7	35	.69	>	>	92
128	GA128	>	>	8	41	134	92	48	.02	1.75	1065	>	1.48	42	>	0.37	10.5	96	.78	>	>	67
129	GA129	>	>	9	38	304	84	70	.01	1.91	761	>	1.37	85	>	0.26	8.0	54	.60	>	>	49
130	GA130	>	>	15	51	170	88	93	.01	1.47	1456	1	1.68	52	>	0.36	12.0	53	.93	>	>	69
131	GA131	>	>	11	31	200	91	34	.01	2.47	1053	1	1.39	60	>	0.34	6.7	68	.70	>	>	85
132	GA132	>	>	8	42	197	64	58	.01	1.64	953	>	1.74	59	>	0.31	9.5	64	.75	>	>	318
133	GA133	>	>	15	45	251	73	88	.01	1.74	1268	2	1.65	75	>	0.22	9.4	65	.66	>	>	87
134	GA134	>	>	19	50	790	92	49	.26	1.41	594	1	1.01	375	>	0.30	9.8	107	.66	>	>	89
135	GA135	>	>	166	16	117	47	63	.46	1.10	993	3	1.75	29	>	0.17	9.9	223	.59	6	>	55
136	GA136	>	>	81	29	130	44	46	.46	1.10	993	3	1.75	65	>	0.12	8.7	85	.70	1.0	>	79
137	GA137	>	>	19	62	259	68	94	.01	.76	2201	1	1.04	86	>	0.26	14.3	93	1.55	>	>	55
138	GA138	>	>	19	38	154	50	56	.01	1.12	995	1	2.63	82	>	0.10	4.7	88	.82	>	>	88
139	GA139	>	>	78	42	256	50	56	.12	2.05	1394	1	1.87	101	>	0.23	8.5	108	.89	2	>	74
140	GA140	>	>	14	42	211	50	68	.01	1.55	1282	1	1.16	83	>	0.29	14.8	146	1.19	2	>	52
141	GA141	>	>	36	41	140	88	60	.37	1.44	1015	2	2.07	50	>	0.16	11.4	44	.91	2	>	99
142	GA142	>	>	23	40	30	42	83	.01	1.25	1015	1	2.65	13	>	0.29	13.3	52	1.09	2	>	91
143	GA143	>	>	36	44	434	88	65	.07	3.57	680	2	1.03	288	>	0.29	13.3	52	.50	>	>	81
144	GA144	>	>	46	45	110	71	37	.09	2.09	1699	2	2.31	49	>	0.20	5.4	70	.78	>	>	159
145	GA145	>	>	31	42	55	46	63	.04	1.83	1154	2	2.71	25	>	0.27	7.1	96	.94	>	>	63
146	GA146	>	>	30	48	101	54	65	.04	1.47	1410	3	2.43	39	>	0.39	8.9	148	.63	>	>	77
147	GA147	>	>	36	40	175	51	56	.10	2.42	1066	3	1.94	64	>	0.36	11.4	130	.57	2	>	82
148	GA148	>	>	41	41	238	49	81	.03	1.45	811	2	2.52	69	>	0.43	7.3	106	.57	2	>	59
149	GA149	>	>	24	47	104	61	54	.03	1.25	1408	2	1.92	44	>	0.35	5.8	135	.67	>	>	84
150	GA150	>	>	32	50	86	72	57	.04	1.65	1765	3	2.28	37	>	0.19	10.6	83	1.14	>	>	81

List of Geochemical Analysis ( 4 )

Ser. Sample No.	Location (km)	Location (km)		As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
		X-coord	Y-coord																					
151	GA151	4797.200	1439.230	1	1	38	138	310	59	91	.02	.67	4094	3	.97	93	2	.019	4.5	29	1.12	.2	2	73
152	GA152	4797.350	1439.520	1	1	77	72	74	52	66	.27	1.15	2753	2	2.00	39	2	.018	9.3	101	1.33	.2	2	90
153	GA153	4797.550	1439.600	1	1	44	60	124	96	76	.03	1.46	1701	3	1.91	42	2	.017	8.3	76	.85	.4	2	172
154	GA154	4797.840	1439.800	1	1	34	52	117	59	51	.04	.95	2081	2	2.31	44	2	.017	2.3	86	.85	.2	2	103
155	GA155	4797.820	1439.120	1	1	42	48	437	101	40	.10	2.13	1299	2	.85	143	2	.014	7.1	46	.76	.2	2	80
156	GA156	4798.170	1439.760	1	1	52	56	314	71	64	.08	1.33	2128	2	1.54	94	2	.028	7.9	97	1.33	.2	2	71
157	GA157	4798.130	1439.180	1	1	19	71	49	42	57	.01	.64	2020	2	1.72	20	2	.011	6.4	75	1.33	.2	2	78
158	GA158	4798.410	1439.520	1	1	41	62	118	54	59	.05	1.14	2542	3	1.70	47	2	.017	9.7	78	1.13	.3	2	99
159	GA159	4798.470	1439.300	1	1	48	71	133	58	54	.07	1.00	2374	3	1.78	48	2	.022	11.0	80	1.19	.2	2	72
160	GA160	4798.800	1439.350	1	1	63	56	78	48	54	.47	1.09	2020	3	1.60	40	2	.017	11.6	92	1.19	.2	2	84
161	GA161	4798.160	1439.150	1	1	42	95	301	85	49	.26	.94	2079	1	1.20	78	2	.020	6.6	47	.94	.2	2	82
162	GA162	4799.280	1439.730	1	1	40	46	218	79	246	.24	2.25	1565	1	2.15	80	2	.047	6.4	114	.67	.2	2	144
163	GA163	4799.450	1439.980	1	1	32	55	296	93	44	.80	1.40	1557	2	1.34	95	2	.047	10.8	109	.68	.2	2	105
164	GA164	4799.520	1439.100	1	1	34	53	268	94	19	.26	2.74	1724	1	1.70	101	2	.035	11.0	100	.84	.2	2	101
165	GA165	4797.600	1435.120	1	1	118	42	71	35	96	.97	.87	1327	2	.13	31	2	.023	20.6	70	3.05	1.2	2	121
166	GA166	4800.920	1439.840	1	1	17	40	330	59	10	.09	2.89	1106	2	2.19	91	2	.037	8.4	85	.74	.2	2	81
167	GA167	4800.850	1439.510	1	1	35	39	393	81	44	.10	1.59	1130	1	1.52	103	2	.031	6.3	85	.94	.2	2	86
168	GA168	4801.160	1439.730	1	1	18	46	353	98	40	.01	2.01	1003	1	1.84	74	2	.028	19.6	91	.91	.2	2	84
169	GA169	4801.540	1439.670	1	1	21	63	412	91	66	.01	1.39	1762	2	1.32	104	2	.025	5.9	59	.97	.2	2	94
170	GA170	4801.880	1439.780	1	1	24	57	338	60	71	.08	1.22	1272	2	1.62	108	2	.040	10.6	115	.57	.2	2	84
171	GA171	4802.210	1439.900	1	1	18	60	250	85	23	.03	2.06	1479	1	2.03	98	2	.032	9.7	89	1.04	.2	2	89
172	GA172	4802.500	1439.990	1	1	19	82	296	71	76	.02	1.21	2573	1	1.66	110	2	.042	6.5	98	1.01	.2	2	79
173	GA173	4802.470	1439.130	1	1	13	48	228	59	13	.03	2.93	1426	1	1.74	87	2	.040	11.1	52	.84	.2	2	76
174	GA174	4802.870	1439.800	1	1	18	49	215	101	56	.04	2.28	1486	1	2.43	71	2	.042	11.8	115	.92	.2	2	74
175	GA175	4802.870	1439.350	1	1	15	40	217	243	38	.33	2.50	1212	1	2.26	81	2	.026	9.7	73	.98	.2	2	85
176	GA176	4793.100	1438.500	1	1	377	29	84	42	33	1.38	1.09	886	1	1.80	37	2	.024	6.3	186	.68	1.6	2	78
177	GA177	4793.270	1438.320	1	1	347	28	182	62	15	.97	1.84	1006	1	2.17	92	2	.026	7.6	206	.64	1.2	2	87
178	GA178	4793.590	1438.130	1	1	458	24	85	44	27	.83	1.01	888	1	2.28	40	2	.030	8.9	230	.60	1.2	2	75
179	GA179	4793.760	1438.490	1	1	215	34	142	49	30	.35	2.25	1040	1	2.23	49	2	.031	12.1	192	1.00	.2	2	96
180	GA180	4793.870	1438.160	1	1	73	63	361	68	70	.04	2.77	1043	1	2.12	160	2	.029	13.3	131	.53	.2	2	73
181	GA181	4794.160	1438.700	1	1	53	54	293	88	28	.02	2.11	1931	1	3.01	134	2	.017	8.9	124	1.06	.2	2	94
182	GA182	4794.450	1438.780	1	1	15	64	248	40	34	.01	1.44	1415	2	3.01	104	2	.027	12.7	141	1.03	.2	2	88
183	GA183	4794.370	1438.170	1	1	15	54	248	40	34	.03	.73	2896	1	2.65	84	2	.022	10.9	81	1.23	.2	2	90
184	GA184	4794.750	1438.310	1	1	38	62	230	74	38	.18	.80	742	1	30	91	2	.007	4.9	6	1.01	.6	2	86
185	GA185	4795.220	1438.630	1	1	34	59	450	82	26	.08	2.09	1494	1	2.35	106	2	.021	13.1	95	.98	.2	2	84
186	GA186	4795.180	1438.130	3	1	34	72	406	81	21	.09	2.33	1874	1	1.78	144	2	.020	9.8	86	.94	.2	2	95
187	GA187	4795.570	1438.500	1	1	32	52	302	64	54	.07	2.56	1064	1	2.18	94	2	.026	8.4	90	.82	.2	2	88
188	GA188	4799.560	1438.560	1	1	20	65	403	88	39	.08	1.97	1377	1	1.56	119	2	.024	10.9	54	.85	.2	2	84
189	GA189	4795.560	1438.020	1	1	42	51	108	56	29	.16	1.49	1669	1	2.30	44	2	.028	13.0	93	1.04	.6	2	118
190	GA190	4795.870	1438.670	1	1	30	58	386	85	35	.06	3.71	875	1	.95	261	2	.034	9.5	74	.63	.2	2	94
191	GA191	4796.160	1438.770	17	1	806	14	6	1	34	.10	.41	592	3	3.56	2	2	.015	5.8	87	.71	.2	2	50
192	GA192	4796.560	1438.550	10	1	830	39	210	66	23	.23	2.22	923	1	2.25	58	2	.021	12.3	110	.83	.2	2	157
193	GA193	4796.390	1438.150	10	1	491	7	21	1	31	.05	1.10	439	1	3.00	16	2	.011	5.2	35	.77	.8	2	38
194	GA194	4796.820	1438.200	1	1	751	32	52	2	15	.07	1.42	639	1	2.16	26	2	.021	9.7	116	1.18	.2	2	53
195	GA195	4796.940	1438.630	1	1	988	68	239	74	38	.27	1.40	2141	1	2.12	86	2	.024	14.0	107	1.37	.4	2	97
196	GA196	4797.170	1438.670	17	1	807	57	43	32	26	.13	1.59	1534	1	2.56	21	2	.012	14.2	94	1.02	.2	2	125
197	GA197	4797.670	1438.790	6	1	980	41	145	74	26	.17	2.60	906	1	1.53	61	2	.015	12.4	82	.88	.2	2	186
198	GA198	4797.900	1438.520	1	1	35	39	75	53	38	.06	2.17	1319	1	1.33	39	2	.017	14.0	86	1.02	.2	2	151
199	GA199	4798.120	1438.250	1	1	715	41	39	38	23	.28	2.33	952	1	1.51	21	2	.021	9.1	91	.82	.2	2	104
200	GA200	4798.380	1438.440	1	1	324	41	120	71	39	.65	1.52	1199	1	2.28	68	2	.049	13.9	152	.64	.2	2	79

List of Geochemical Analysis ( 5 )

Ser. No.	Sample No.	X-coord	Y-coord	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
No.					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
201	GA201	4798.750	1438.250		>1	>1	35	55	53	65	63	.80	1.52	1188	1	1.95	43	>2	.036	8.5	136	.81	>2	>2	85
202	GA202	4798.630	1438.080		>1	>1	26	45	192	82	14	.29	2.36	1146	>1	1.64	82	>2	.025	13.0	105	.81	>2	>2	102
203	GA203	4799.220	1438.530		>1	>1	48	64	312	93	33	.21	2.08	2266	>1	1.64	100	>2	.025	10.9	91	.84	>2	>2	99
204	GA204	4799.040	1438.120		>1	>1	62	83	402	54	31	.19	1.48	1466	>1	1.60	161	>2	.026	14.8	104	1.00	>2	>2	63
205	GA205	4799.670	1438.640		>1	>1	36	53	268	91	26	.33	2.75	1617	>1	1.52	116	>2	.031	4.3	84	.72	>2	>2	125
206	GA206	4797.690	1437.110		>1	>1	25	113	480	105	49	.02	1.56	2662	>1	.89	190	>2	.015	6.5	39	.81	>2	>2	86
207	GA207	4793.050	1437.750		6	18	32	129	1430	87	87	.01	3.13	1606	>1	.97	650	>2	.024	8.9	45	.37	>2	>2	66
208	GA208	4793.230	1437.350		5	>1	71	61	658	57	27	.36	3.99	1165	>1	1.07	637	>2	.022	10.5	57	.44	>2	>2	95
209	GA209	4793.450	1437.840		4	>1	64	78	761	86	32	.11	5.33	1252	>1	.86	595	>2	.019	2.5	69	.35	>2	>2	59
210	GA210	4793.860	1437.440		3	5	107	48	462	73	36	.26	2.23	541	>1	1.29	297	>2	.038	14.4	61	.42	>2	>2	92
211	GA211	4794.190	1437.870		3	5	698	53	139	45	74	.30	1.25	1392	3	2.14	57	>2	.019	15.0	152	2.31	>2	>2	120
212	GA212	4794.400	1437.550		3	>1	912	59	333	51	31	.11	2.78	1493	>1	2.40	126	>2	.030	14.0	109	.83	>2	>2	85
213	GA213	4794.770	1437.900		16	>1	957	71	133	41	51	.08	1.98	1054	>1	1.46	90	>2	.021	11.2	95	1.04	>2	>2	74
214	GA214	4795.100	1437.710		20	>1	815	61	513	88	38	.07	2.17	1106	>1	1.02	157	>2	.019	15.6	55	.80	>2	>2	92
215	GA215	4794.920	1437.440		7	1	236	12	222	19	53	.05	2.0	10	>1	.88	70	>2	.014	4.3	17	.44	>2	>2	30
216	GA216	4795.730	1437.500		4	>1	669	55	83	43	40	.25	1.42	2272	>1	1.89	39	>2	.024	11.0	102	1.14	>2	>2	106
217	GA217	4795.880	1437.870		1	>1	811	87	81	66	42	.11	.96	1831	1	1.44	48	>2	.034	12.1	71	1.05	>2	>2	120
218	GA218	4796.160	1437.880		1	>1	752	76	101	57	59	.08	1.12	2263	>1	2.15	43	>2	.030	2.8	140	.94	>2	>2	95
219	GA219	4796.160	1437.380		1	>1	648	69	46	19	44	.09	.97	2035	>1	2.90	33	>2	.018	5.7	119	1.43	>2	>2	89
220	GA220	4796.620	1437.880		1	>1	662	36	39	14	16	.15	1.83	1112	>1	3.23	23	>2	.024	6.2	159	.73	>2	>2	83
221	GA221	4796.860	1437.370		1	>1	34	42	87	76	29	.19	2.12	1907	>1	1.48	39	>2	.021	14.7	76	.86	>2	>2	70
222	GA222	4797.170	1437.890		1	>1	15	65	77	120	40	.01	1.10	1345	>1	1.56	34	>2	.011	6.1	39	1.25	>2	>2	143
223	GA223	4797.180	1437.450		1	>1	39	34	69	33	62	.05	.72	1166	>1	2.79	28	>2	.022	6.1	85	.87	>2	>2	78
224	GA224	4797.600	1437.730		1	>1	64	37	126	105	43	.06	1.41	1076	>1	1.49	44	>2	.014	9.7	98	.48	>2	>2	76
225	GA225	4797.700	1437.290		9	>1	292	31	197	28	60	.47	.98	1204	2	1.05	138	>2	.021	5.9	98	.40	>2	>2	65
226	GA226	4798.100	1437.570		1	>1	59	35	158	86	32	.16	2.38	1088	>1	2.47	85	>2	.024	6.2	159	.73	>2	>2	83
227	GA227	4798.270	1437.840		1	>1	73	43	368	63	44	.12	2.48	795	>1	1.51	184	>2	.031	9.7	128	.95	>2	>2	87
228	GA228	4798.550	1437.500		1	>1	36	22	127	11	67	.02	.24	981	>1	2.93	49	>2	.019	8	125	.38	>2	>2	25
229	GA229	4798.830	1437.870		1	>1	30	74	402	106	45	.07	2.02	1965	>1	1.11	154	>2	.024	8.2	51	.84	>2	>2	95
230	GA230	4799.050	1437.620		14	>1	244	30	189	24	49	.39	.84	1195	>1	1.06	110	>2	.018	4.3	69	.45	>2	>2	95
231	GA231	4799.350	1437.750		9	3	452	29	249	36	49	.64	1.07	915	>1	1.03	157	>2	.015	7.3	56	.48	>2	>2	74
232	GA232	4799.920	1437.300		1	>1	87	35	267	51	31	.61	1.90	905	2	1.08	118	>2	.047	10.1	72	.51	>2	>2	83
233	GA233	4800.200	1437.480		19	>1	106	4	270	26	44	.74	.78	109	1	1.27	72	>2	.046	2.2	85	.67	>2	>2	50
234	GA234	4800.600	1437.890		1	>1	34	79	444	81	53	.12	1.66	1934	>1	1.27	129	>2	.029	8.3	63	.47	>2	>2	79
235	GA235	4795.330	1437.400		1	>1	99	47	251	34	52	.14	.39	993	>1	.27	78	>2	.018	4.7	33	.47	>2	>2	44
236	GA236	4795.750	1437.070		1	>1	68	45	284	44	41	.12	2.29	1464	2	1.85	136	>2	.025	7.4	51	1.05	>2	>2	85
237	GA237	4793.100	1437.120		1	>1	318	35	315	35	46	.88	1.62	1340	>1	.83	174	>2	.021	5.5	51	.36	>2	>2	74
238	GA238	4799.150	1437.280		1	>1	110	29	235	40	50	.40	1.32	903	>1	.92	145	>2	.018	7.5	52	.45	>2	>2	76
239	GA239	4798.650	1436.860		5	1	130	42	279	64	22	.45	3.09	1167	>1	1.15	175	>2	.035	11.3	95	.93	>2	>2	118
240	GA240	4798.400	1436.420		9	1	101	8	75	15	43	.69	.42	5	>1	.10	34	>2	.010	4.2	31	.45	>2	>2	50
241	GA241	4793.400	1436.150		14	1	191	10	75	16	45	.79	.48	77	>1	.27	42	>2	.009	6.0	29	2.2	>2	>2	51
242	GA242	4793.720	1436.300		19	1	180	12	70	19	46	1.02	.72	169	>1	.17	42	4	.025	2.0	28	2.2	>2	>2	66
244	GA244	4794.180	1436.610		1	1	498	16	86	36	33	1.26	.84	484	>1	.33	72	10	.007	6.4	.35	2.4	>2	>2	84
245	GA245	4794.520	1436.160		19	2	248	8	69	21	47	.57	.60	5	>1	.06	33	2	.008	1.8	31	3.87	>2	>2	51
247	GA247	4794.870	1436.260		1	1	87	47	122	29	85	.50	.30	931	>1	.28	37	>2	.013	12.4	25	.24	>2	>2	83
248	GA248	4795.320	1436.600		1	1	117	17	137	14	52	.39	.23	270	1	.06	26	12	.006	4	20	.4	>2	>2	34
249	GA249	4795.600	1436.830		1	1	210	35	163	28	49	.90	.84	961	2	1.45	75	>2	.008	5.9	32	.38	>2	>2	60
250	GA250	4795.650	1436.190		1	1	564	21	202	21	76	.87	.98	1119	>1	.59	150	8	.010	5.3	43	.30	>2	>2	82





List of Geochemical Analysis ( 7 )

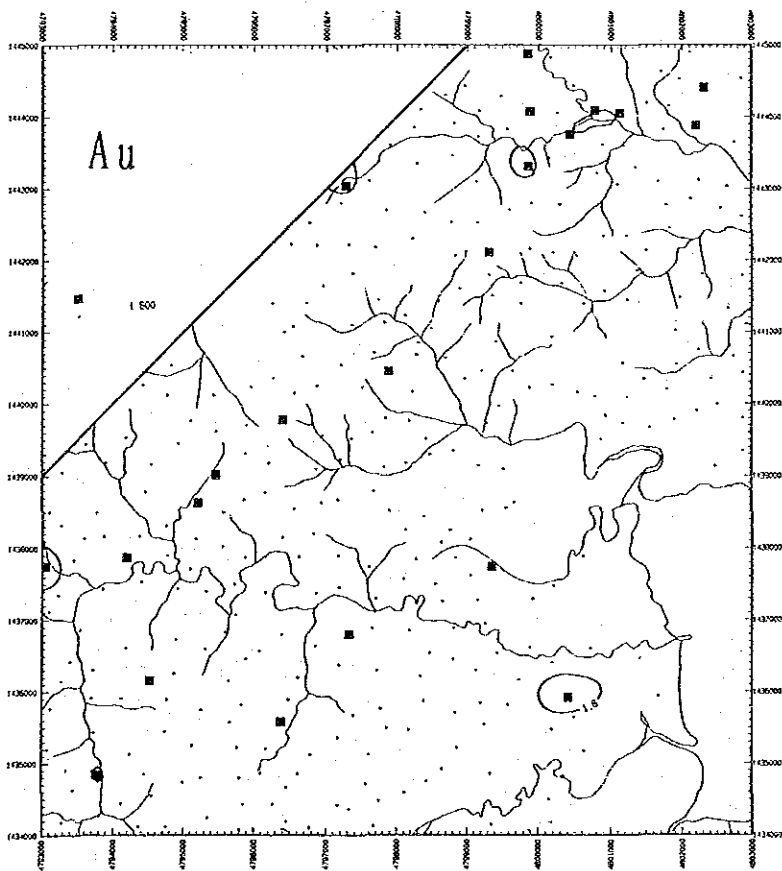
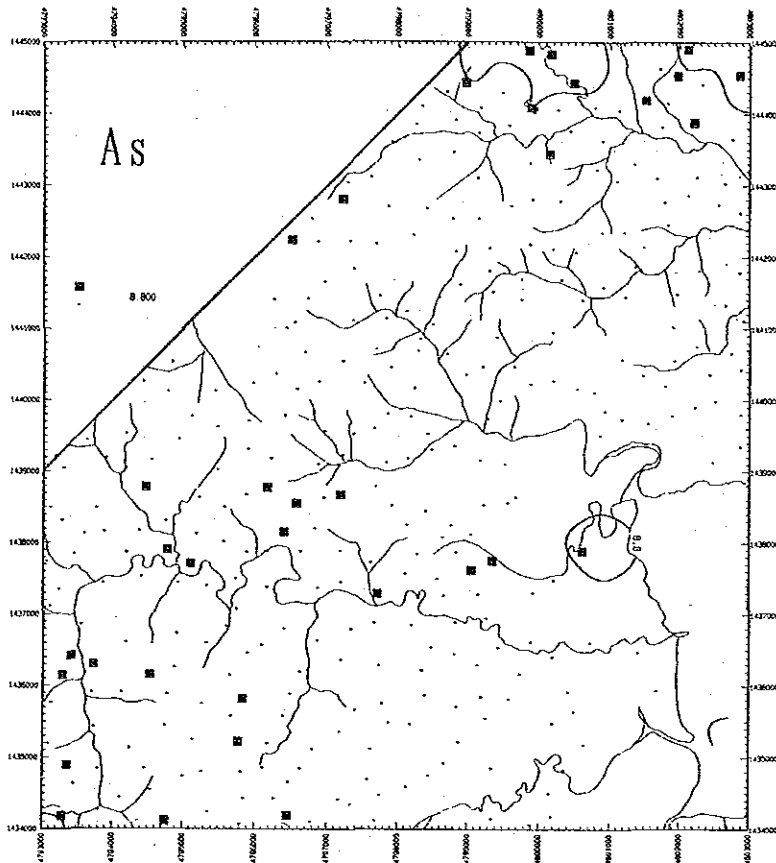
Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn	
					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
301	GA301	4800.400	1435.920	1	>	62	56	51	339	75	40	.22	1.97	1679	1	1.44	120	>	.031	4.2	94	.84	.2	>	93	
302	GA302	4800.480	1435.650	1	>	91	91	74	257	68	83	.13	1.00	3557	2	1.65	85	>	.029	5.6	77	1.04	.4	>	83	
303	GA303	4800.180	1435.480	1	>	101	40	43	148	14	82	.02	.05	379	1	.03	14	3	.010	1.7	13	.24	.6	>	82	
304	GA304	4800.620	1435.180	1	>	1000	40	75	157	50	35	.09	2.12	1062	1	1.29	59	>	.020	9.9	69	1.41	.2	>	104	
305	GA305	4801.660	1435.940	5	>	14	391	12	62	14	44	.75	.31	112	2	.24	27	>	.024	6.7	32	1.86	1.4	>	78	
306	GA306	4793.350	1434.900	14	>	180	120	20	128	41	39	1.19	1.14	558	1	.58	79	>	.009	1.7	30	.49	2.2	>	47	
307	GA307	4793.450	1434.630	12	>	180	120	15	73	23	82	.53	.33	1025	2	.09	32	14	.015	1.1	28	.49	2.2	>	77	
308	GA308	4793.280	1434.180	1	>	317	23	23	49	83	69	1.07	.93	1485	2	1.35	42	2	.011	1.1	37	.54	2.2	>	46	
309	GA309	4793.790	1434.840	1	>	148	20	20	92	25	65	.63	.41	83	2	.09	43	5	.010	2.2	24	.58	2.2	>	58	
310	GA310	4793.800	1434.270	1	>	185	16	16	113	37	53	1.14	.68	108	2	.17	66	>	.011	9	45	.51	2.8	>	58	
311	GA311	4794.110	1434.440	1	>	96	10	10	75	16	62	.43	.23	218	1	.05	29	4	.014	3.7	31	.49	2.4	>	42	
312	GA312	4794.360	1434.120	1	>	130	29	29	73	24	59	.56	.41	1193	1	.17	40	12	.013	2.5	52	.58	2.0	>	57	
313	GA313	4794.450	1434.850	1	>	191	19	11	71	16	70	.88	.43	727	1	.19	34	6	.015	2.2	49	.41	1.8	>	71	
314	GA314	4794.750	1434.120	15	>	67	67	11	64	10	70	.25	.17	140	1	.03	25	6	.011	2.3	20	.39	2.2	>	29	
315	GA315	4795.000	1434.740	4	>	120	3	3	82	23	39	.62	.36	53	3	.09	30	5	.011	1.0	32	.40	2.2	>	50	
316	GA316	4795.260	1434.800	3	>	120	11	11	76	11	53	.25	.18	53	1	.04	33	8	.009	.8	27	.35	2.0	>	33	
317	GA317	4795.350	1434.240	1	>	78	17	17	77	17	48	.58	.62	546	2	.44	49	7	.013	4.6	34	.29	2.0	>	47	
318	GA318	4795.810	1434.800	1	>	133	17	17	77	17	108	.13	.13	1817	2	.01	14	13	.012	2.0	18	.52	1.6	>	26	
319	GA319	4795.850	1434.430	1	>	70	44	39	90	24	82	.32	.27	2089	2	.10	32	14	.017	1.5	32	.55	1.6	>	41	
320	GA320	4795.500	1434.070	1	>	126	77	67	216	48	67	.14	.61	3173	1	2.62	58	21	.010	8.8	48	1.88	.8	>	69	
321	GA321	4796.100	1434.860	1	>	77	154	49	67	29	89	.35	.31	1646	1	.10	38	32	.027	3.9	12	1.71	1.0	>	49	
322	GA322	4796.260	1434.430	1	>	65	77	77	75	78	132	.16	.29	2514	1	.05	32	21	.010	2.2	38	1.16	1.8	>	88	
323	GA323	4796.460	1434.660	1	>	113	25	25	77	32	54	.36	.30	817	2	.15	39	14	.014	1.2	25	.30	2.0	>	44	
324	GA324	4796.820	1434.850	21	>	182	19	19	111	12	40	1.35	1.05	50	1	.36	68	5	.012	1.2	54	.44	2.6	>	44	
325	GA325	4796.450	1434.190	1	>	206	16	16	90	12	43	.24	.19	364	2	.04	28	6	.011	3.8	37	.40	1.8	>	86	
326	GA326	4797.160	1434.420	1	>	41	41	36	149	95	10	1.85	1.60	796	3	.19	104	6	.007	6.0	11	.57	1.8	>	89	
327	GA327	4797.320	1434.360	1	>	73	48	48	247	32	42	.24	2.79	2132	1	1.10	475	2	.023	6.7	55	.88	.2	>	96	
328	GA328	4797.560	1434.700	3	>	141	113	113	283	55	68	.36	.59	4807	2	1.21	62	7	.016	4.7	25	1.35	1.2	>	65	
329	GA329	4797.740	1434.480	1	>	115	99	99	271	75	97	.09	.34	6388	2	1.33	106	2	.021	5.0	123	1.19	.4	>	82	
330	GA330	4797.670	1434.120	1	>	64	97	97	235	68	89	.10	.45	5816	1	.35	86	7	.021	7.1	29	1.55	.4	>	71	
331	GA331	4798.120	1434.590	1	>	68	52	52	195	63	82	.16	1.50	1933	1	2.01	88	2	.020	13.1	118	1.35	.5	>	100	
332	GA332	4798.430	1434.750	1	>	29	49	49	173	77	31	.02	1.40	851	1	2.03	62	2	.014	3.8	66	.79	.2	>	75	
333	GA333	4798.650	1434.920	1	>	38	56	56	198	64	38	.03	1.16	1688	1	2.78	87	2	.030	9.9	120	.70	.4	>	55	
334	GA334	4798.340	1434.860	1	>	51	76	76	608	84	59	.02	3.26	1434	2	1.65	340	2	.033	12.6	128	.68	.2	>	91	
335	GA335	4798.350	1434.150	1	>	17	42	42	608	64	48	.04	5.17	1139	1	.90	237	2	.029	9.1	98	.68	.2	>	119	
336	GA336	4799.880	1434.070	1	>	29	48	48	595	96	24	.03	3.37	943	1	1.58	247	2	.029	9.1	98	.79	.2	>	98	
337	GA337	4800.170	1434.180	1	>	122	16	16	53	15	58	.56	.37	592	2	.24	26	2	.014	2.2	25	.32	2.0	>	47	
338	GA338	4800.340	1434.830	1	>	177	9	9	89	18	76	.94	.37	53	2	.16	28	2	.013	2.2	41	.50	2.4	>	56	
339	GA339	4794.540	1434.550	1	>																					
340	GA340	4796.770	1434.100	1	>																					

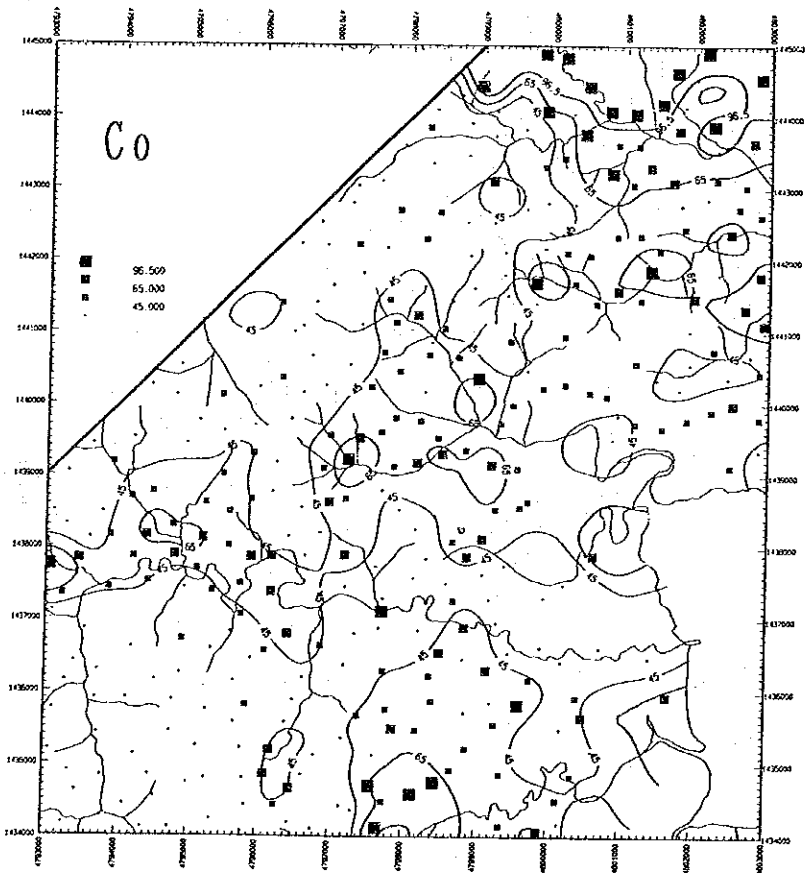
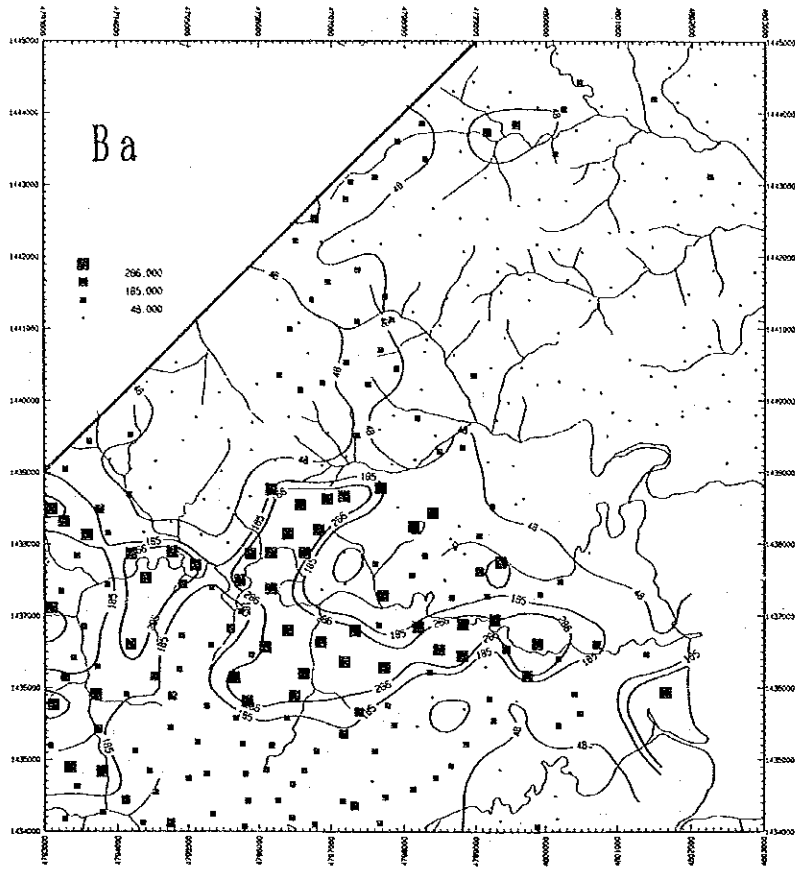


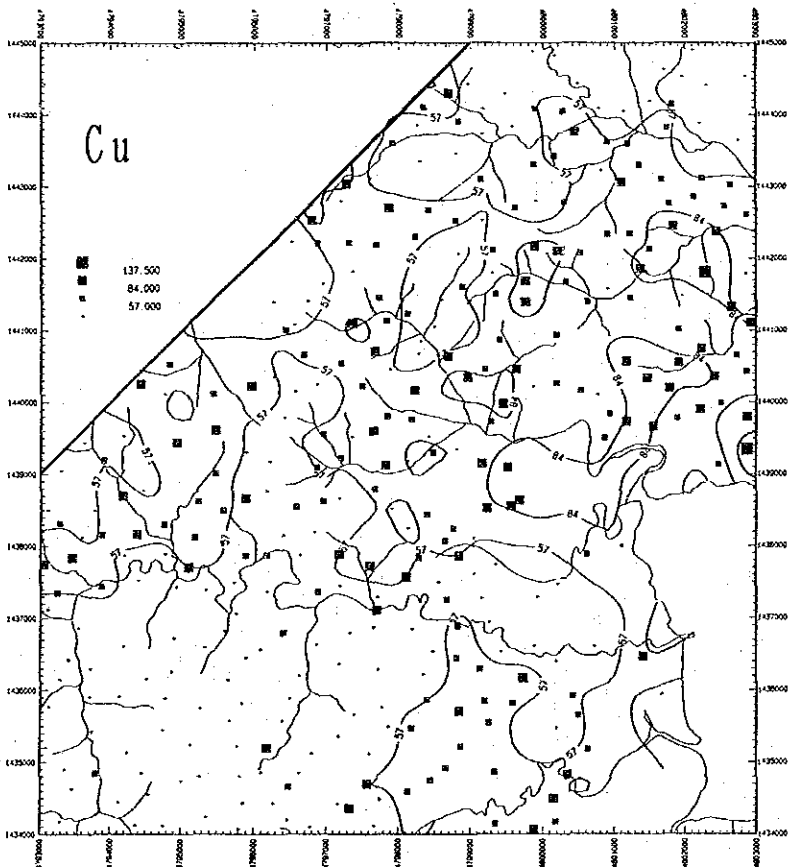
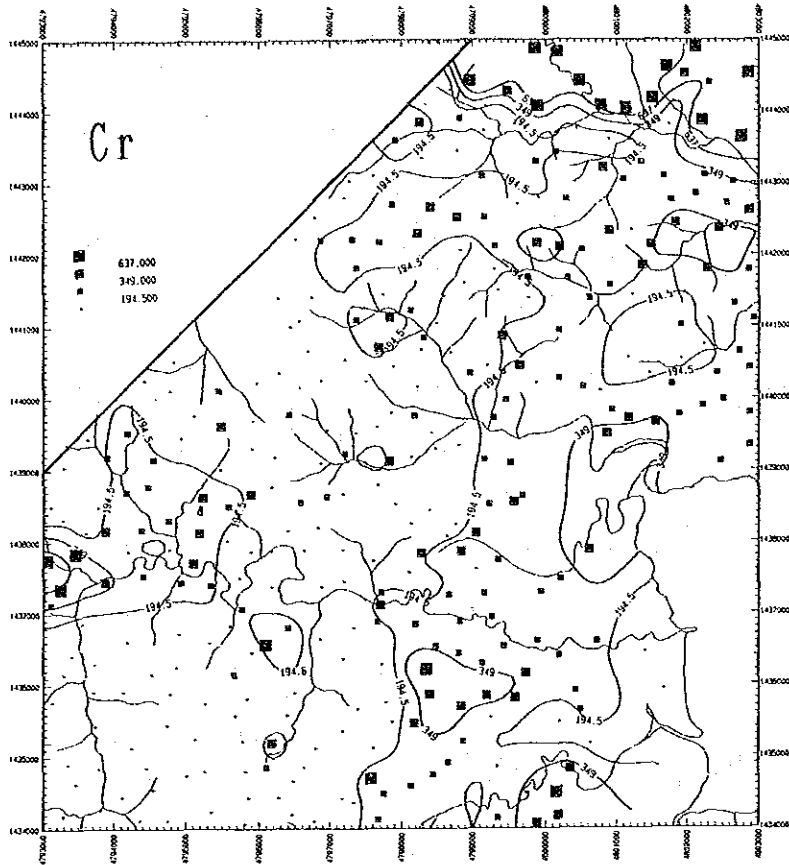
Appendix 19

Distribution map of elements  
in Area A

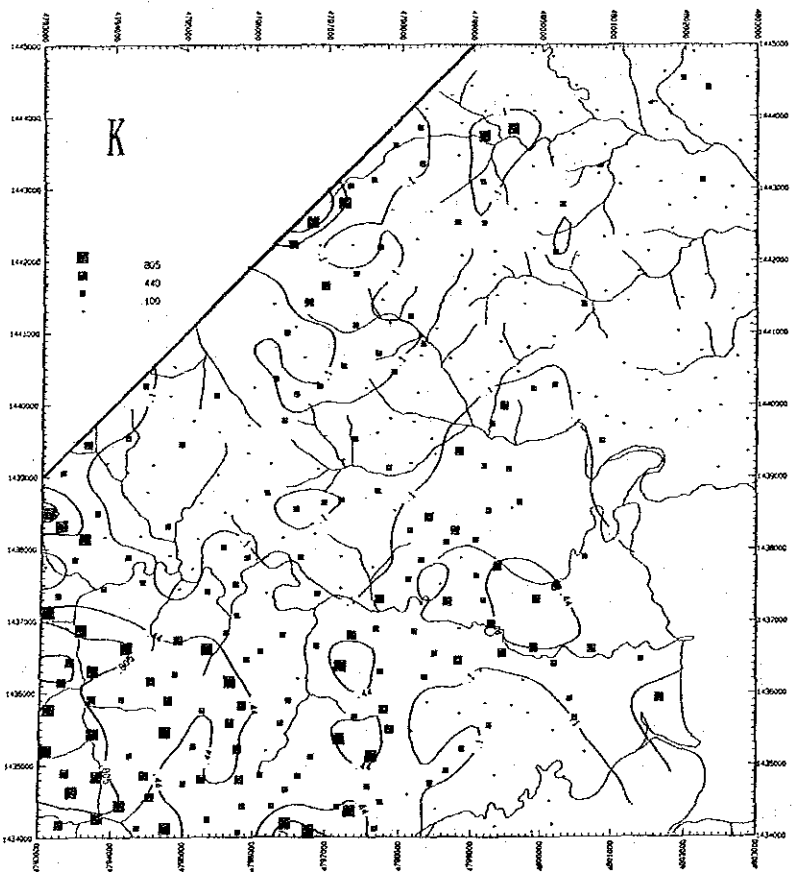
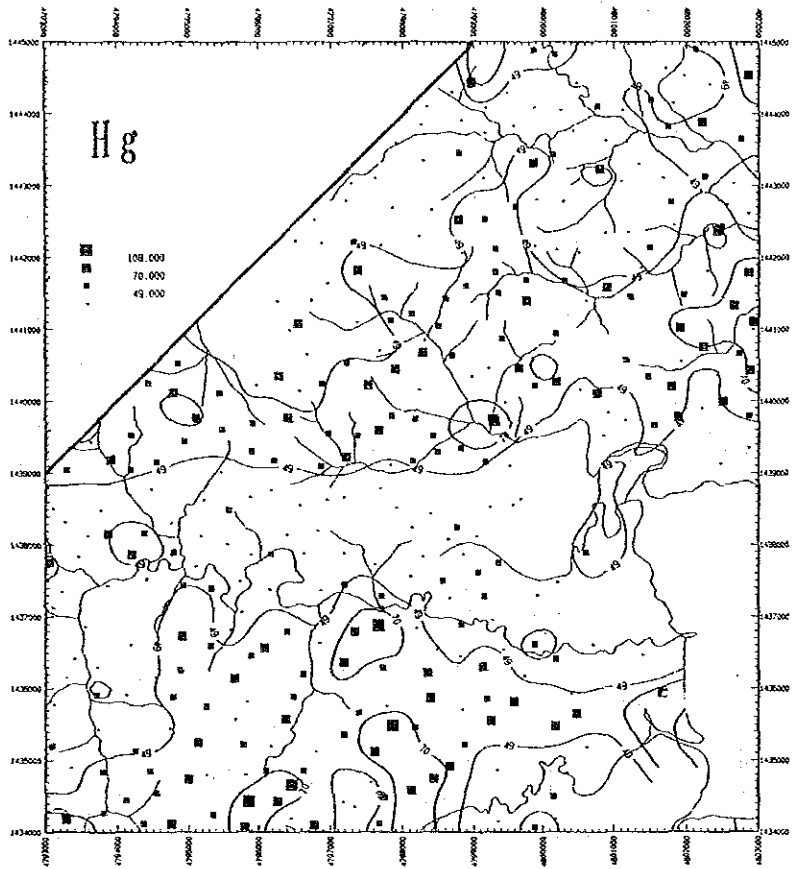


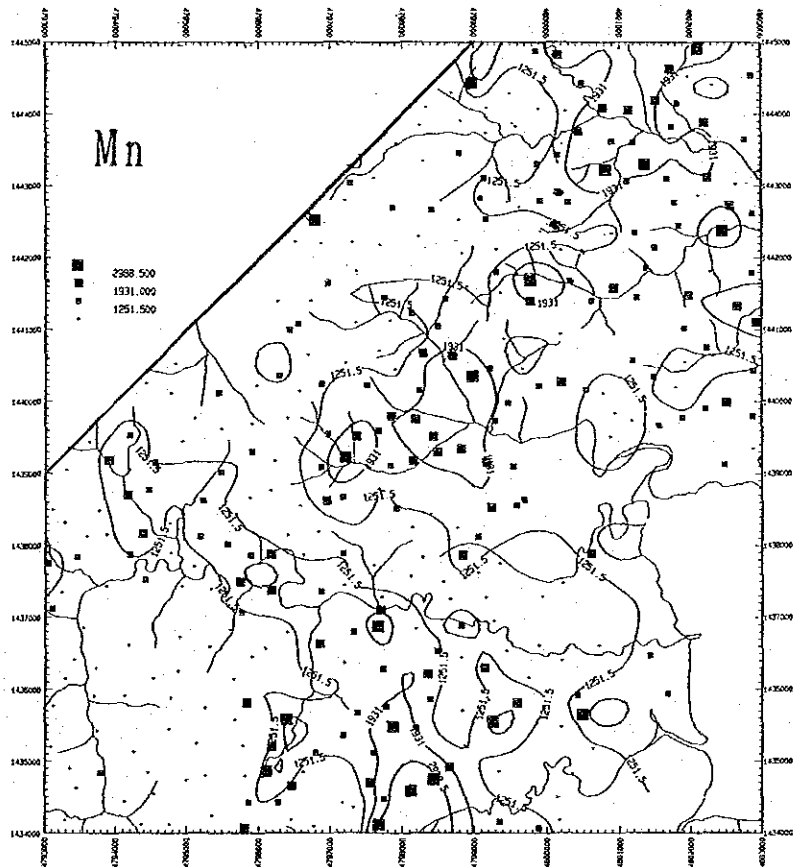
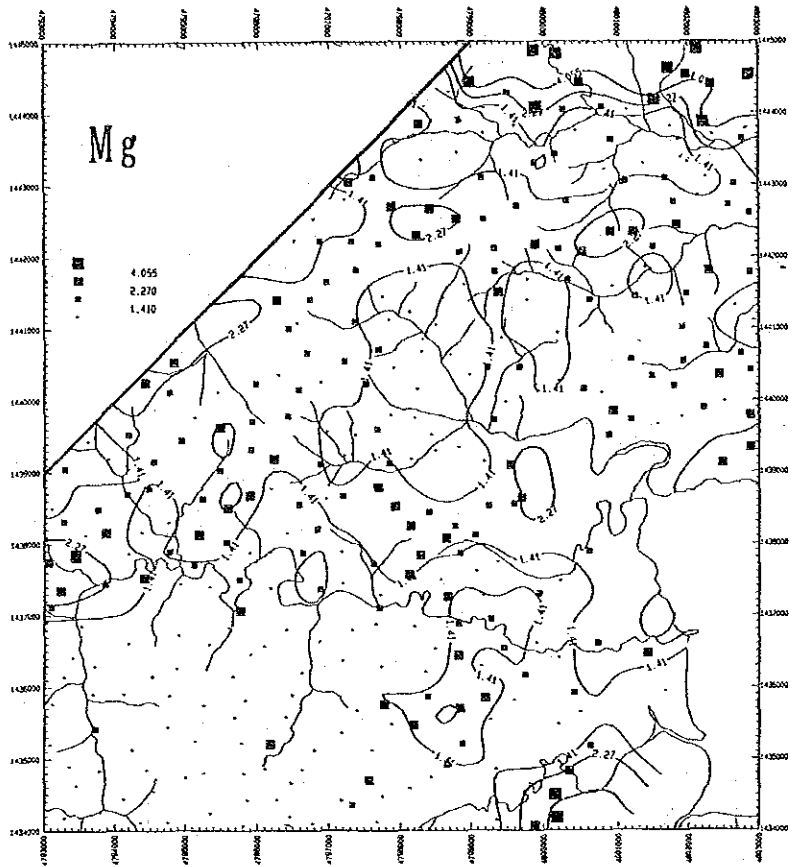


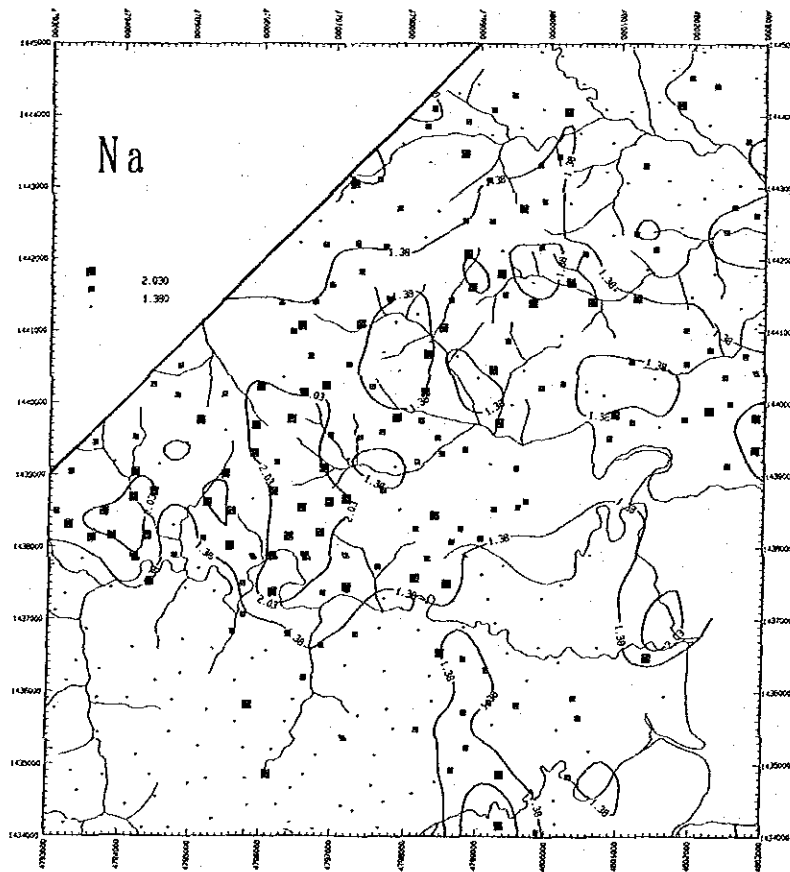
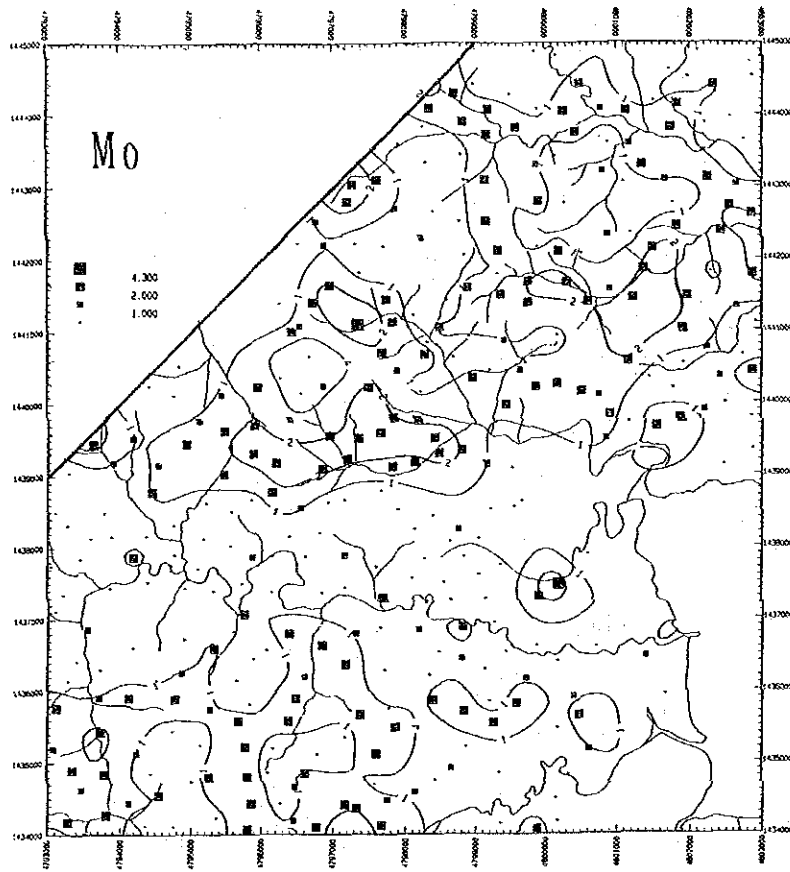


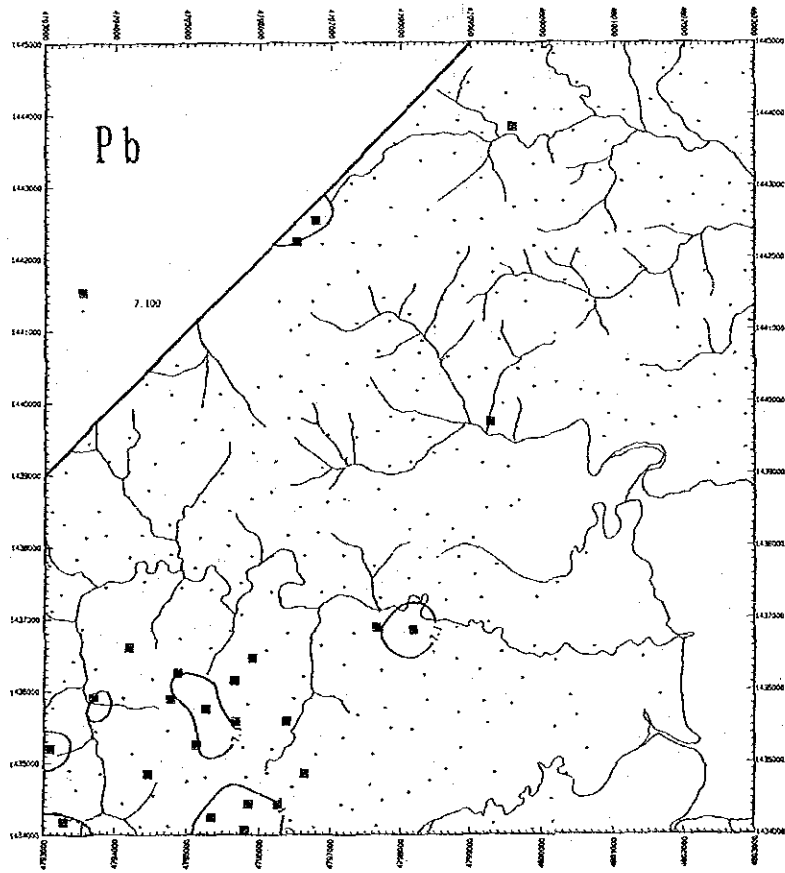
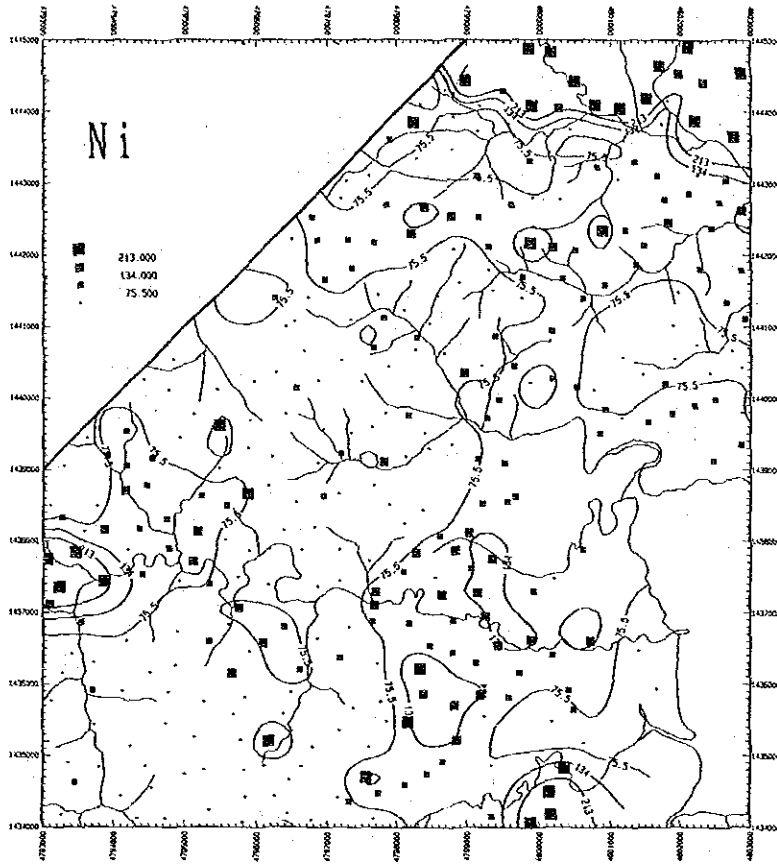


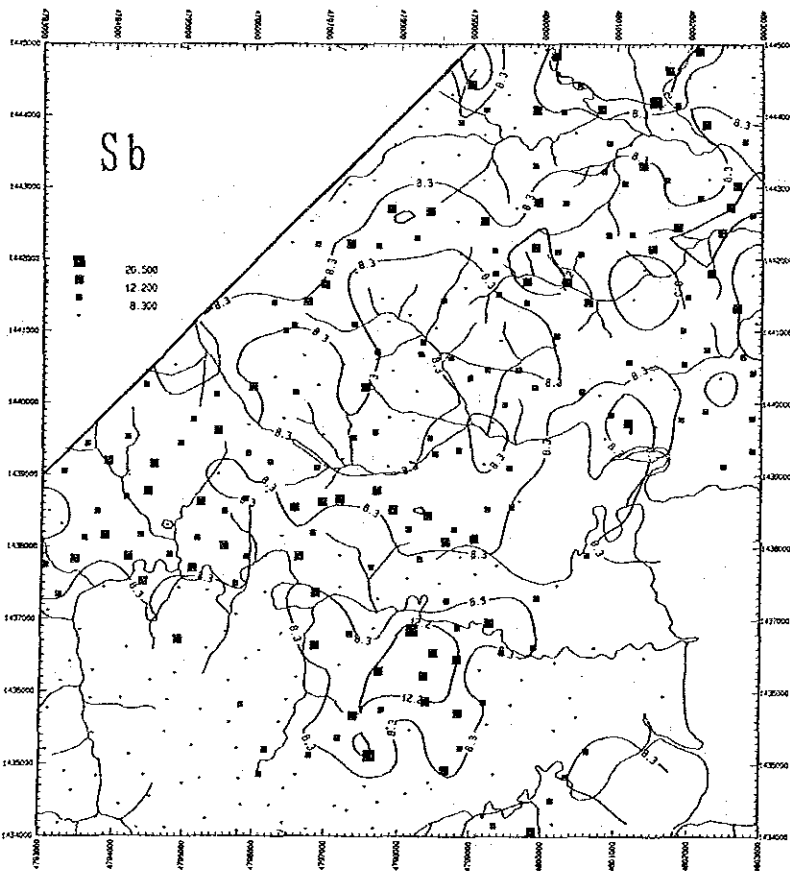
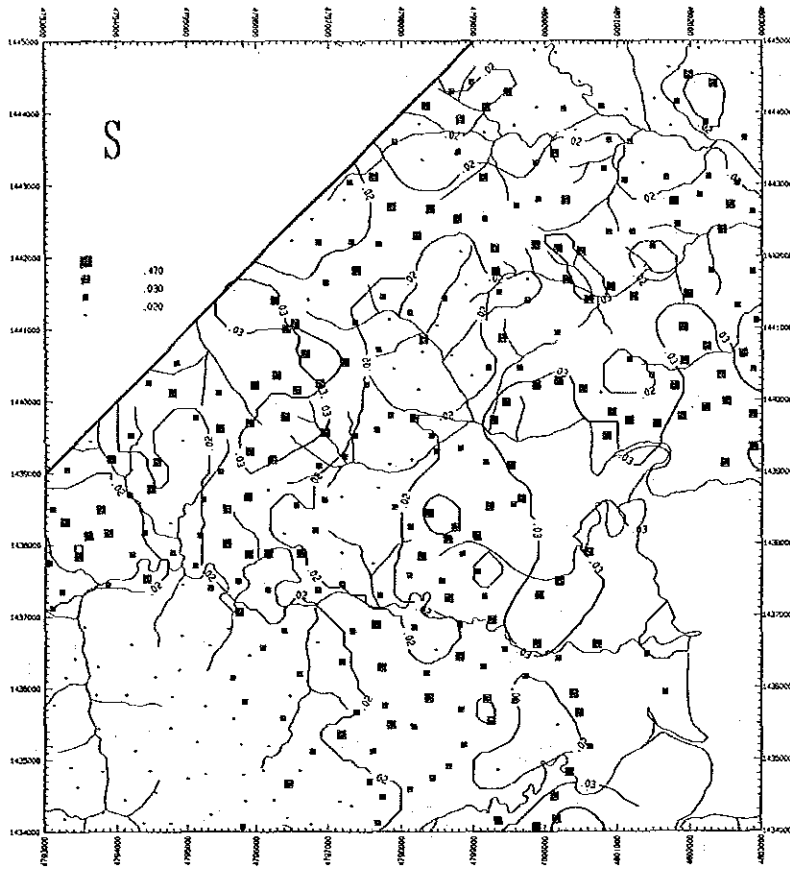


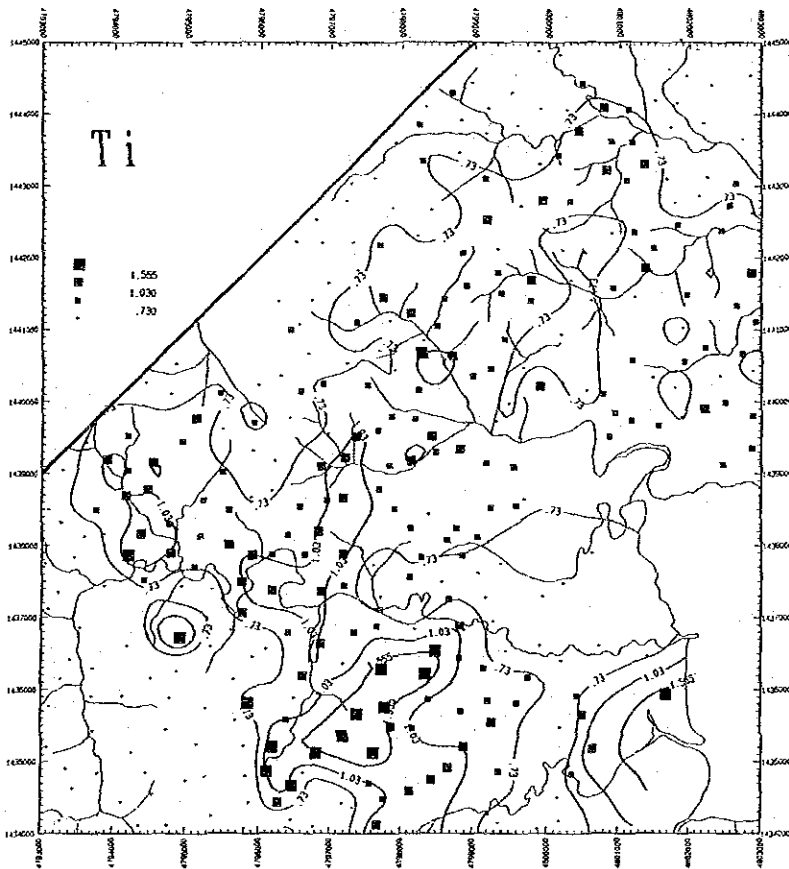
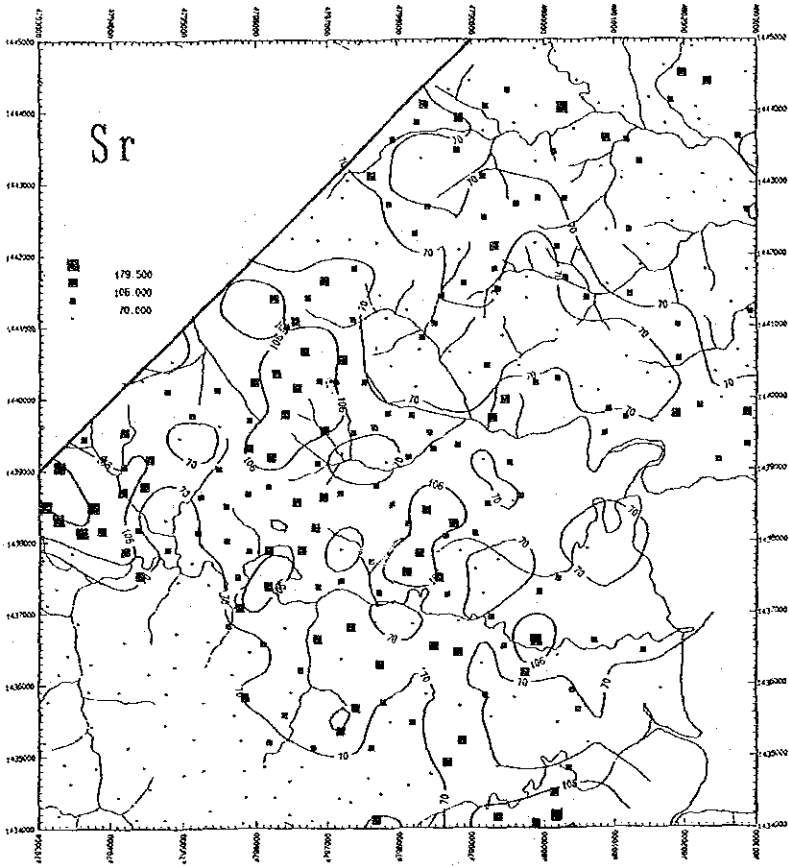


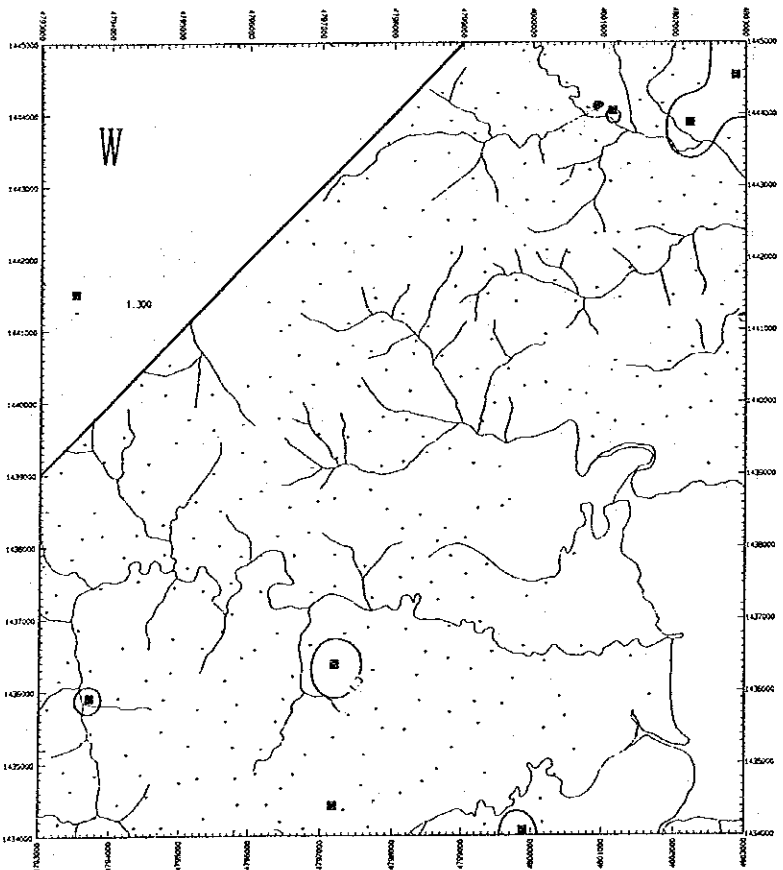
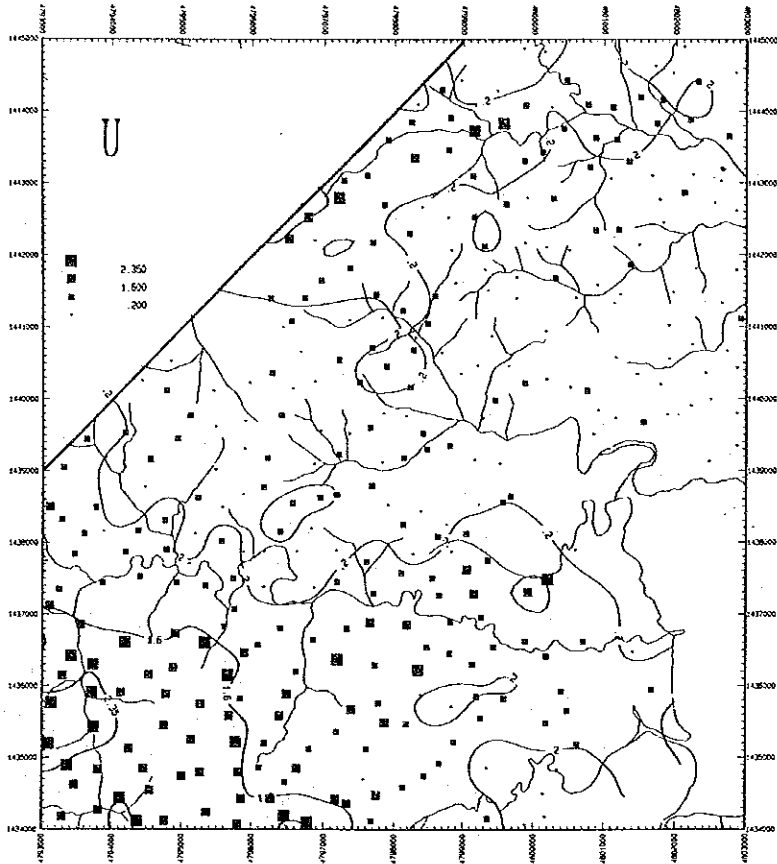


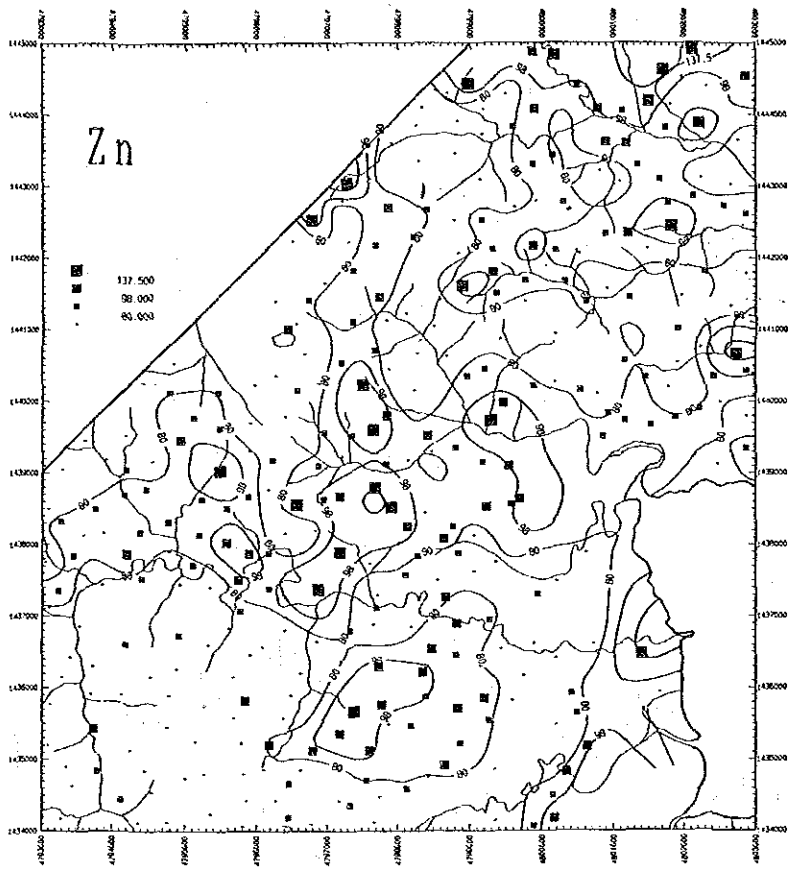
















Appendix 20

List of soil geochemical samples  
in Area B



Area: Sungai Danum Area (Area B)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	I. #3	H. #4	Vegetation
		N	E										
1	GB001	1451.92	4735.15	Sungai Malua	—	P <sub>4</sub> Km	20	B.	R	C	M	W	Secondary forest
2	GB002	1452.57	4734.88	Sungai Malua	sandstone	P <sub>4</sub> Km	20	L.B.	R	C	F	W	Secondary forest
3	GB003	1452.51	4735.79	Sungai Malua	—	P <sub>4</sub> Km	30	B.	R	C	M	W	Secondary forest
4	GB004	1451.90	4735.95	Sungai Malua	—	P <sub>4</sub> Km	30	L.B.	R	C	F	W	Secondary forest
5	GB005	1451.32	4736.02	Ulu Segama	—	P <sub>4</sub> Km	20	L.B.	R	C	M	W	Secondary forest
6	GB006	1451.15	4736.43	Ulu Segama	—	P <sub>4</sub> Km	20	B.	R	C	F	W	Secondary forest
7	GB007	1450.70	4736.45	Ulu Segama	—	Csba	20	B.	R	C	M	W	Secondary forest
8	GB008	1450.64	4735.89	Ulu Segama	—	Csba	30	B.	R	C	M	W	Secondary forest
9	GB009	1450.13	4735.89	Ulu Segama	—	Csba	30	R.B.	R	C	M	W	Secondary forest
10	GB010	1449.91	4735.25	Ulu Segama	—	Csba	30	B.	R	C	M	W	Secondary forest
11	GB011	1449.70	4735.55	Ulu Segama	—	Csba	30	B.	R	C	M	W	Secondary forest
12	GB012	1449.54	4734.83	Ulu Segama	basalt	Csba	30	B.	M	S	S	W	Secondary forest
13	GB013	1449.20	4734.87	Ulu Segama	basalt	Csba	20	B.	F	C	S	W	Secondary forest
14	GB014	1448.76	4734.96	Ulu Segama	basalt	Csba	30	B.	M	C	S	W	Secondary forest
15	GB015	1448.48	4734.68	Ulu Segama	basalt	Csba	30	B.	F	C	S	W	Secondary forest
16	GB016	1448.22	4735.04	Ulu Segama	basalt	Csba	30	B.	F	C	S	W	Secondary forest
17	GB017	1447.85	4734.87	Ulu Segama	basalt	Csba	30	B.	F	C	S	W	Secondary forest
18	GB018	1447.74	4735.28	Ulu Segama	—	Pr	30	B.	F	C	S	W	Secondary forest
19	GB019	1447.40	4735.00	Ulu Segama	—	Gb	30	L.B.	F	S	S	D	Secondary forest
20	GB020	1447.05	4735.59	Ulu Segama	—	Gb	20	B.	M	S	S	D	Secondary forest
21	GB021	1446.67	4735.53	Ulu Segama	—	Gb	30	B.	M	S	S	D	Secondary forest
22	GB022	1452.75	4737.05	Sungai Malua	basalt	Csba	20	B.	R	C	S	W	Secondary forest
23	GB023	1452.44	4737.11	Sungai Malua	basalt	Csba	20	B.	R	C	S	W	Secondary forest
24	GB024	1452.63	4737.53	Sungai Malua	—	P <sub>4</sub> Km	20	B.	R	C	S	W	Secondary forest
25	GB025	1452.41	4737.92	Sungai Malua	—	Csba	20	B.	R	C	S	W	Secondary forest
26	GB026	1452.64	4738.28	Sungai Malua	—	Csba	20	B.	R	C	S	W	Secondary forest
27	GB027	1451.91	4738.41	Sungai Malua	basalt	Csba	20	B.	R	C	S	W	Secondary forest
28	GB028	1451.83	4737.95	Ulu Segama	—	Csba	30	L.B.	R	C	S	W	Secondary forest
29	GB029	1451.41	4738.01	Ulu Segama	—	Csba	20	B.	R	C	S	W	Secondary forest
30	GB030	1451.22	4737.54	Ulu Segama	—	Csba	20	B.	R	C	S	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)      \*2Grain size: Sandy (S), Clayey (C)

\*\*Topography: Steep (S), Moderate (M), Flat (F)      \*\*Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	I. #3	H. #4	Vegetation
		N	E										
31	GB031	1450.88	4737.34	Ulu Segama	basalt	Csba	30	B.	R	C	S	W	Secondary forest
32	GB032	1450.63	4737.09	Ulu Segama	basalt	Csba	20	B.	R	C	S	W	Secondary forest
33	GB033	1450.15	4737.11	Ulu Segama	basalt	Csba	20	B.	R	C	S	W	Secondary forest
34	GB034	1449.79	4736.78	Ulu Segama	—	Csba	30	B.	R	C	S	W	Secondary forest
35	GB035	1450.84	4737.77	Ulu Segama	—	Csba	20	B.	R	C	S	W	Secondary forest
36	GB036	1450.31	4737.90	Ulu Segama	—	Gb	30	B.	R	C	S	W	Secondary forest
37	GB037	1450.00	4737.78	Ulu Segama	—	Gb	30	B.	R	C	M	W	Secondary forest
38	GB038	1449.86	4737.45	Ulu Segama	basalt	Csba	30	D.B.	R	C	S	W	Secondary forest
39	GB039	1449.55	4737.23	Ulu Segama	—	Csba	30	D.B.	R	C	M	W	Secondary forest
40	GB040	1449.53	4737.72	Ulu Segama	—	Csba	30	D.B.	R	C	M	W	Secondary forest
41	GB041	1448.93	4737.49	Ulu Segama	—	Gb	30	D.B.	R	C	M	W	Secondary forest
42	GB042	1448.87	4736.93	Ulu Segama	—	Csba	30	D.B.	R	S	S	W	Secondary forest
43	GB043	1448.40	4736.85	Ulu Segama	—	Pr	20	B.	R	C	S	W	Secondary forest
44	GB044	1448.60	4736.51	Ulu Segama	—	Pr	10	B.	R	C	S	W	Secondary forest
45	GB045	1450.13	4738.40	Ulu Segama	—	Gb	20	B.	R	C	F	D	Secondary forest
46	GB046	1452.42	4738.71	Sungai Malua	—	Csba	20	B.	R	C	F	W	Secondary forest
47	GB047	1452.62	4739.35	Sungai Malua	basaltic bre.	Csba	20	B.	R	C	F	W	Secondary forest
48	GB048	1452.14	4739.45	Sungai Malua	chert	Csch	10	B.	R	S	M	W	Secondary forest
49	GB049	1451.90	4739.10	Sungai Malua	—	Csba	10	B.	R	S	S	W	Secondary forest
50	GB050	1451.43	4739.23	Ulu Segama	—	Gb	10	D.B.	R	S	S	W	Secondary forest
51	GB051	1451.41	4739.76	Ulu Segama	—	Gb	20	B.	R	C	S	W	Secondary forest
52	GB052	1451.52	4740.16	Ulu Segama	—	Gb	20	B.	R	C	M	W	Secondary forest
53	GB053	1451.60	4740.53	Ulu Segama	—	Pr	20	B.	R	C	M	W	Secondary forest
54	GB054	1452.00	4740.27	Sungai Malua	—	Csba	20	B.	R	C	M	W	Secondary forest
55	GB055	1451.19	4739.38	Ulu Segama	—	Gb	20	B.	R	C	S	W	Secondary forest
56	GB056	1450.92	4739.78	Ulu Segama	—	Gb	20	B.	R	C	S	W	Secondary forest
57	GB057	1450.61	4739.55	Ulu Segama	—	Gb	20	B.	M	S	S	W	Secondary forest
58	GB058	1450.08	4739.34	Ulu Segama	dolerite	Do	30	R.B.	R	C	S	W	Secondary forest
59	GB059	1450.43	4739.04	Ulu Segama	—	Gb	20	B.	R	C	S	W	Secondary forest
60	GB060	1450.25	4738.69	Ulu Segama	—	Gb	25	B.	R	C	S	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*2Topography: Steep (S), Moderate (M), Flat (F)

\*3Grain size: Sandy (S), Clayey (C)

\*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
61	GB061	1449.70	4739.38	Ulu Segama	dolerite	Do	25	Y.B.	R	C	S	W	Secondary forest
62	GB062	1449.47	4739.77	Ulu Segama	dolerite	Do	20	B.	F	C	S	W	Secondary forest
63	GB063	1449.27	4739.33	Ulu Segama	dolerite	Do	20	B.	F	C	S	W	Secondary forest
64	GB064	1450.46	4739.88	Ulu Segama	—	Gb	30	G.B.	R	C	S	W	Secondary forest
65	GB065	1450.15	4740.20	Ulu Segama	—	Do	20	B.	F	C	S	W	Secondary forest
66	GB066	1450.47	4740.24	Ulu Segama	dolerite	Do	30	B.	R	C	S	W	Secondary forest
67	GB067	1450.81	4740.19	Ulu Segama	dolerite	Do	30	Y.B.	R	C	S	W	Secondary forest
68	GB068	1450.69	4740.71	Ulu Segama	—	Do	30	B.	R	C	S	W	Secondary forest
69	GB069	1451.11	4740.65	Ulu Segama	—	Do	30	B.	F	C	S	W	Secondary forest
70	GB070	1450.80	4741.09	Ulu Segama	—	Do	30	B.	F	C	S	W	Secondary forest
71	GB071	1450.40	4741.19	Ulu Segama	dolerite	Do	30	B.	R	C	M	W	Secondary forest
72	GB072	1450.23	4740.85	Ulu Segama	dolerite	Do	30	B.	R	C	S	W	Secondary forest
73	GB073	1449.96	4740.98	Ulu Segama	dolerite	Do	30	B.	R	C	S	W	Secondary forest
74	GB074	1449.60	4741.31	Ulu Segama	—	Do	30	L.B.	R	C	M	W	Secondary forest
75	GB075	1449.55	4740.95	Ulu Segama	—	Do	30	B.	R	C	M	W	Secondary forest
76	GB076	1449.56	4740.45	Ulu Segama	—	Do	30	B.	R	C	M	W	Secondary forest
77	GB077	1449.35	4740.72	Ulu Segama	dolerite	Do	30	B.	R	C	M	W	Secondary forest
78	GB078	1449.17	4740.30	Ulu Segama	dolerite	Do	30	B.	R	C	M	W	Secondary forest
79	GB079	1448.78	4740.59	Ulu Segama	dolerite	Do	30	B.	R	C	M	W	Secondary forest
80	GB080	1448.78	4740.09	Ulu Segama	—	Do	30	B.	R	C	F	W	Secondary forest
81	GB081	1448.96	4739.68	Ulu Segama	—	Do	30	B.	R	C	F	W	Secondary forest
82	GB082	1448.59	4739.43	Ulu Segama	—	Do	30	B.	R	C	M	W	Secondary forest
83	GB083	1448.31	4739.82	Ulu Segama	—	Do	30	B.	R	C	M	W	Secondary forest
84	GB084	1448.11	4739.55	Ulu Segama	—	Do	30	B.	R	C	M	W	Secondary forest
85	GB085	1448.26	4740.45	Ulu Segama	basalt	Do	10	D.B.	F	C	M	D	Primary forest
86	GB086	1447.86	4740.75	Ulu Segama	gabbro	Gb	40	G.B.	M	S	S	D	Secondary forest
87	GB087	1447.42	4740.92	Ulu Segama	gabbro	Gb	15	L.B.	F	S	S	D	Primary forest
88	GB088	1446.83	4740.98	Ulu Segama	gabbro	Gb	15	D.B.	M	S	S	W	Secondary forest
89	GB089	1446.58	4740.73	Ulu Segama	gabbro	Gb	20	D.B.	M	S	M	W	Secondary forest
90	GB090	1446.45	4741.25	Ulu Segama	—	Gb	25	D.B.	M	S	M	W	Secondary forest

\*\*Gravel: Many (M), Few (F), Rare or none (R)

\*\*Grain size: Sandy (S), Clayey (C)

\*\*Topography: Steep (S), Moderate (M), Flat (F)

\*\*Humidity: Dry (D), Wet (W)

## Area: Sungai Danum Area (Area B)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
91	GB091	1446.05	4741.09	Ulu Segama	sandstone	P <sub>4</sub> Km	20	D.B.	F	C	M	W	Secondary forest
92	GB092	1444.98	4741.28	Ulu Segama	shale	P <sub>4</sub> Km	20	B.	R	S	M	W	Secondary forest
93	GB093	1445.19	4740.90	Ulu Segama	shale	P <sub>4</sub> Km	20	D.B.	R	S	F	W	Secondary forest
94	GB094	1444.88	4740.20	Ulu Segama	shale	P <sub>4</sub> Km	25	Y.B.	F	C	F	W	Secondary forest
95	GB095	1444.44	4740.09	Ulu Segama	shale	P <sub>4</sub> Km	20	L.B.	R	C	F	W	Secondary forest
96	GB096	1443.82	4739.78	Ulu Segama	sandstone	P <sub>4</sub> Km	20	Y.B.	F	C	F	W	Secondary forest
97	GB097	1443.42	4739.55	Ulu Segama	sandstone	P <sub>4</sub> Km	20	Y.B.	F	C	F	W	Secondary forest
98	GB098	1445.41	4740.39	Ulu Segama	sandstone	P <sub>4</sub> Km	15	D.B.	R	S	F	W	Secondary forest
99	GB099	1445.81	4740.30	Ulu Segama	sandstone	P <sub>4</sub> Km	10	B.	F	C	F	W	Secondary forest
100	GB100	1446.28	4740.36	Ulu Segama	gabbro	Gb	15	B.	F	C	M	W	Secondary forest
101	GB101	1446.41	4739.95	Ulu Segama	gabbro	Gb	20	B.	F	C	M	W	Secondary forest
102	GB102	1446.60	4739.78	Ulu Segama	gabbro	Gb	15	B.	M	C	S	W	Secondary forest
103	GB103	1446.91	4740.10	Ulu Segama	gabbro	Gb	10	D.B.	M	C	S	W	Secondary forest
104	GB104	1447.33	4739.84	Ulu Segama	basalt	Do	10	D.B.	F	S	S	D	Primary forest
105	GB105	1445.16	4739.95	Ulu Segama	sandstone	P <sub>4</sub> Km	15	B.	R	C	S	W	Secondary forest
106	GB106	1445.64	4739.57	Ulu Segama	sandstone	P <sub>4</sub> Km	15	B.	R	C	S	W	Secondary forest
107	GB107	1446.24	4739.45	Ulu Segama	—	P <sub>4</sub> Km	15	D.B.	M	S	M	W	Secondary forest
108	GB108	1446.00	4739.05	Ulu Segama	—	P <sub>4</sub> Km	10	G.B.	F	C	M	W	Secondary forest
109	GB109	1446.50	4739.08	Ulu Segama	basalt/gabbro	Do	15	D.B.	M	S	S	D	Secondary forest
110	GB110	1447.03	4738.92	Ulu Segama	basalt	Do	15	D.B.	M	C	S	W	Secondary forest
111	GB111	1445.55	4739.22	Ulu Segama	shale	P <sub>4</sub> Km	15	B.G.	R	C	F	W	Secondary forest
112	GB112	1445.21	4739.23	Ulu Segama	shale	P <sub>4</sub> Km	15	D.B.	R	S	F	W	Secondary forest
113	GB113	1445.34	4738.87	Ulu Segama	sandstone	P <sub>4</sub> Km	10	B.	F	C	F	W	Secondary forest
114	GB114	1444.86	4738.76	Ulu Segama	sandstone	P <sub>4</sub> Km	15	B.G.	R	C	F	W	Secondary forest
115	GB115	1445.33	4738.39	Ulu Segama	s.s./shale	P <sub>4</sub> Km	15	B.	R	C	F	W	Secondary forest
116	GB116	1445.42	4738.00	Ulu Segama	s.s./shale	P <sub>4</sub> Km	15	D.B.	R	C	F	W	Secondary forest
117	GB117	1445.55	4737.58	Ulu Segama	shale	P <sub>4</sub> Km	20	D.B.	F	C	F	W	Secondary forest
118	GB118	1445.96	4737.82	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.	M	S	M	W	Secondary forest
119	GB119	1446.92	4736.95	Ulu Segama	basalt	Do	25	B.	M	C	M	W	Primary forest
120	GB120	1447.15	4736.68	Ulu Segama	—	Do	25	Y.B.	M	C	M	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)

\*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
121	GB121	1447.38	4736.96	Ulu Segama	—	Do	25	B.	R	C	M	W	Secondary forest
122	GB122	1447.57	4736.64	Ulu Segama	—	Do	25	B.	R	C	M	W	Secondary forest
123	GB123	1447.44	4737.16	Ulu Segama	bre. basalt	Do	20	L.B.	R	C	M	W	Primary forest
124	GB124	1447.29	4737.63	Ulu Segama	bre. basalt	Do	25	B.	M	C	M	W	Primary forest
125	GB125	1447.84	4737.58	Ulu Segama	bre. basalt	Do	20	L.B.	M	C	S	W	Primary forest
126	GB126	1447.93	4737.22	Ulu Segama	bre. basalt	Do	30	R.B.	F	C	S	W	Secondary forest
127	GB127	1445.17	4737.44	Ulu Segama	bre. basalt	P4Km	25	D.B.	R	C	F	W	Secondary forest
128	GB128	1444.10	4737.53	Ulu Segama	sandstone	P4Km	30	R.B.	M	C	F	W	Secondary forest
129	GB129	1443.62	4737.35	Ulu Segama	—	P4Km	30	Y.B.	M	C	F	W	Secondary forest
130	GB130	1444.55	4736.90	Ulu Segama	sandstone	P4Km	30	Y.B.	R	C	F	W	Secondary forest
131	GB131	1444.90	4736.88	Ulu Segama	sandstone	P4Km	25	L.B.	R	C	F	W	Secondary forest
132	GB132	1445.24	4736.75	Ulu Segama	chert	Do	15	D.B.	F	C	S	W	Secondary forest
133	GB133	1445.72	4736.80	Ulu Segama	basalt	Do	25	D.B.	R	C	S	W	Secondary forest
134	GB134	1446.28	4736.86	Ulu Segama	basalt	Do	20	B.	R	C	S	W	Primary forest
135	GB135	1445.11	4736.30	Ulu Segama	chert	Do	20	L.B.	R	C	S	W	Secondary forest
136	GB136	1444.53	4736.08	Ulu Segama	—	P4Km	30	D.B.	M	C	M	W	Secondary forest
137	GB137	1445.00	4736.03	Ulu Segama	—	Do	30	D.B.	R	C	M	W	Secondary forest
138	GB138	1443.81	4735.18	Ulu Segama	sandstone	P4Km	30	Y.G.	R	C	M	W	Secondary forest
139	GB139	1444.02	4735.61	Ulu Segama	—	P4Km	30	B.	R	C	M	W	Secondary forest
140	GB140	1444.34	4735.09	Ulu Segama	basalt	Do	20	B.	F	C	S	W	Secondary forest
141	GB141	1444.73	4735.41	Ulu Segama	basalt	Do	20	B.	F	S	S	W	Secondary forest
142	GB142	1444.88	4735.10	Ulu Segama	basalt	Do	30	D.B.	R	C	S	W	Secondary forest
143	GB143	1450.40	4737.44	Ulu Segama	basalt	Csba	30	B.	R	C	M	W	Secondary forest
144	GB144	1450.77	4738.85	Ulu Segama	peridotite	Pr	40	R.B.	R	C	M	D	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*\*Grain size: Sandy (S), Clayey (C)

\*\*Topography: Steep (S), Moderate (M), Flat (F)

\*\*Humidity: Dry (D), Wet (W)





Appendix 21

Analytical result of soil  
geochemical samples in Area B



List of Geochemical Analysis ( 1 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
1	G8001	4735.150	1451.920	1	112	35	141	45	71	.33	1.20	1673	2	.39	77	2	.030	3.0	16	.86	1.2	2	100
2	G8002	4734.880	1452.570	1	88	8	75	16	18	.39	.40	5	1	.20	26	9	.008	8.0	23	.32	1.8	2	32
3	G8003	4735.790	1452.510	1	449	19	71	15	90	1.12	.60	3418	1	1.19	42	2	.028	2	18	.65	1.4	2	119
4	G8004	4735.950	1451.900	1	93	16	109	14	33	.39	.80	35	1	.11	53	2	.015	2	31	.67	1.6	2	49
5	G8005	4736.020	1451.320	1	249	18	98	30	40	1.95	1.15	582	1	.60	46	14	.015	3.5	79	.48	2.4	2	97
6	G8006	4736.430	1451.150	1	87	12	83	15	31	.29	.49	717	1	.16	42	14	.015	1.6	19	.37	1.8	2	38
7	G8007	4736.450	1450.700	1	155	17	125	35	30	1.32	1.19	373	3	.28	77	5	.011	5.4	47	.56	2.4	2	83
8	G8008	4735.890	1450.640	1	127	11	379	115	18	1.17	2.14	946	3	.37	272	2	.013	11.4	33	1.49	.6	2	125
9	G8009	4735.890	1450.130	1	71	78	404	127	40	.46	1.22	969	2	.14	357	2	.022	3.9	6	1.48	.6	2	133
10	G8010	4735.250	1449.910	1	142	78	400	113	32	1.17	1.30	1562	2	.92	323	2	.015	3.5	58	1.26	.6	2	209
11	G8011	4735.550	1449.700	1	122	67	361	114	37	.36	2.03	1649	3	.74	283	2	.020	15.9	51	1.48	.4	2	146
12	G8012	4734.830	1449.540	1	264	62	287	68	37	.82	2.61	1390	1	.64	224	2	.037	11.2	174	1.34	.4	2	124
13	G8013	4734.870	1449.200	1	260	61	299	66	46	.79	2.76	1392	1	.71	228	2	.032	6.5	179	1.34	.8	2	129
14	G8014	4734.960	1448.760	1	158	75	422	69	42	1.61	2.39	1111	1	.91	304	2	.019	14.4	79	1.47	.6	2	127
15	G8015	4734.680	1448.480	1	185	61	343	74	18	1.60	2.81	612	2	.33	306	2	.019	7.8	56	1.60	.4	2	117
16	G8016	4735.040	1448.220	1	192	71	572	103	31	.65	2.82	1652	1	.59	395	2	.025	13.2	145	.85	.2	2	116
17	G8017	4734.870	1447.850	1	20	69	963	110	27	.07	3.07	363	1	.28	599	2	.018	7.7	49	.15	.2	2	63
18	G8018	4735.280	1447.740	1	3	178	940	128	31	.01	13.49	1054	1	.27	1360	2	.018	7.7	49	.15	.2	2	147
19	G8019	4735.000	1447.400	1	17	44	960	90	52	.02	2.95	253	1	.28	284	2	.035	4.1	43	.13	.2	2	50
20	G8020	4735.590	1447.050	1	4	62	865	109	22	.01	3.60	485	1	.39	414	2	.027	11.2	48	.20	.2	2	69
21	G8021	4735.530	1446.670	1	4	47	792	79	35	.01	4.43	467	1	.59	243	2	.052	8.8	54	.15	.2	2	80
22	G8022	4737.050	1452.750	1	356	54	231	72	46	1.60	2.98	2333	1	1.10	175	2	.030	15.8	69	1.51	1.0	2	130
23	G8023	4737.530	1452.630	1	149	15	61	14	37	.84	.55	190	1	.31	25	8	.010	2.0	49	.38	2.4	2	56
24	G8024	4737.920	1452.440	1	127	6	55	12	46	.71	.43	5	2	.10	14	13	.011	3.3	44	.33	2.4	2	40
25	G8025	4738.280	1452.640	1	110	42	375	38	33	.46	.87	5	1	.15	192	5	.011	8.6	28	.48	1.6	2	67
26	G8026	4738.410	1451.910	1	30	69	426	81	34	.05	5.53	1247	2	1.51	169	2	.050	9.1	54	.31	.2	2	91
27	G8027	4737.920	1452.410	1	206	49	105	67	27	.82	1.25	1022	1	.53	59	2	.017	3.2	84	1.72	1.0	2	118
28	G8028	4737.950	1451.830	1	226	65	157	77	21	1.32	1.42	1288	1	.17	159	2	.013	14.7	25	2.58	.8	2	182
29	G8029	4738.010	1451.410	1	83	76	350	96	31	.37	2.17	1976	1	.19	374	2	.013	4.2	30	.77	.2	2	134
30	G8030	4737.540	1451.220	1	155	69	231	83	47	.32	1.66	1938	1	.60	149	2	.024	7.0	69	1.40	.4	2	133
31	G8031	4737.340	1450.880	1	138	62	280	56	44	.50	2.10	1462	1	.45	207	2	.036	13.6	69	1.34	.4	2	113
32	G8032	4737.090	1450.630	1	679	18	144	30	71	.82	.88	504	2	.12	86	2	.023	2	16	2.04	1.0	2	127
33	G8033	4737.110	1450.150	1	150	43	238	92	64	.94	1.21	778	1	.13	422	2	.015	5.0	4	1.05	.2	2	116
34	G8034	4736.780	1448.790	1	25	42	1056	81	53	.10	1.28	5	2	.10	470	2	.019	11.4	22	1.70	.8	2	216
35	G8035	4737.770	1450.840	1	73	69	338	103	28	.47	2.00	1353	2	.80	300	2	.011	7.9	34	1.05	.6	2	119
36	G8036	4737.900	1450.310	1	36	50	942	107	19	.02	2.15	24	1	.34	389	2	.014	8.0	44	.18	.2	2	47
37	G8037	4737.780	1449.000	4	119	77	610	101	49	.82	2.42	3098	1	.90	486	2	.033	11.2	78	1.07	.4	2	171
38	G8038	4737.450	1449.860	5	42	61	360	54	41	.56	2.74	1893	1	1.35	235	2	.038	11.1	72	1.09	.2	2	107
39	G8039	4737.230	1449.550	1	115	44	237	104	26	1.39	2.92	2141	2	.87	261	1	.013	2.8	26	.49	1.2	2	115
40	G8040	4737.720	1449.530	8	97	131	1279	58	50	.53	9.18	2087	1	.51	1632	2	.023	7.8	23	.34	.6	2	151
41	G8041	4736.930	1448.870	3	6	348	3931	30	96	.01	15.96	3305	1	.01	4410	2	.011	2	1	.02	.2	2	204
42	G8042	4736.510	1448.600	26	2	592	5537	82	123	.01	7.42	6297	1	.01	7351	2	.024	17.5	4	.05	.2	2	209
43	G8043	4736.850	1448.400	18	1	160	97	73	37	1.14	3.69	2134	1	.50	1237	9	.021	4.6	25	.37	1.0	2	121
44	G8044	4736.510	1448.600	48	2	25	582	91	111	.01	.34	5	1	.11	180	2	.018	2	10	.12	.2	2	35
45	G8045	4738.400	1450.130	18	10	45	150	81	11	.01	.34	5	1	.11	180	2	.018	2	10	.12	.2	2	35
46	G8046	4738.710	1452.420	1	111	32	257	34	66	.24	.65	111	2	.11	116	2	.025	8.1	9	2.34	2.2	2	109
47	G8047	4739.350	1452.620	1	89	62	257	40	28	2.32	2.36	2496	2	.26	121	2	.015	8.9	12	2.03	1.2	2	111
48	G8048	4739.450	1452.140	9	1	89	28	315	85	.59	.95	467	5	.08	130	2	.015	8.9	12	2.03	1.2	2	111
49	G8049	4739.100	1451.900	4	1	27	44	336	96	.17	.03	2.67	1	1.16	117	2	.013	6.6	43	.90	.2	2	105
50	G8050	4739.230	1451.430	3	29	66	686	59	42	.04	3.96	767	1	.97	573	2	.032	10.1	43	.31	.2	2	77

List of Geochemical Analysis ( 2)

Ser. No.	Sample No.	X-coord	Y-coord	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
51	GB051	4739.760	1451.410	1451.410	1	>	43	53	951	117	40	03	2.07	5	>	23	409	>	022	9.5	10	.82	>	>	85
52	GB052	4740.160	1451.520	1451.520	8	>	28	71	851	67	119	02	1.90	1230	>	.20	495	>	.031	2.7	9	.69	>	>	77
53	GB053	4740.530	1451.600	1451.600	1	>	29	232	2023	73	52	07	2.13	3262	>	.20	1389	>	.028	12.9	22	.22	>	>	89
54	GB054	4740.270	1452.000	1452.000	1	>	11	68	769	69	42	03	4.21	829	>	.69	353	>	.031	9.0	36	.65	>	>	90
55	GB055	4739.380	1451.190	1451.190	12	>	46	157	1274	117	65	03	2.99	1964	>	.51	1134	>	.021	4.2	28	.49	>	>	85
56	GB056	4739.780	1450.920	1450.920	15	>	21	55	1610	84	113	01	2.18	725	>	.17	356	>	.036	13.9	24	.26	>	>	44
57	GB057	4739.550	1450.610	1450.610	9	>	1	66	585	132	10	01	5.14	237	>	.52	330	>	.026	7.6	75	.10	>	>	67
58	GB058	4739.340	1450.080	1450.080	1	>	33	33	738	120	12	01	.75	144	>	.17	233	>	.007	15	15	.34	>	>	72
59	GB059	4739.040	1450.430	1450.430	1	>	19	63	768	154	37	02	.41	5	>	.17	495	>	.034	4.1	3	.52	>	>	40
60	GB060	4738.690	1450.250	1450.250	16	>	4	16	1066	88	144	01	.31	5	>	.11	234	>	.020	5.3	1	.45	>	>	37
61	GB061	4739.380	1449.700	1449.700	1	>	11	56	306	41	22	01	1.89	756	>	1.00	100	>	.020	9.9	41	1.39	>	>	65
62	GB062	4739.770	1449.470	1449.470	1	>	14	51	310	35	53	03	3.08	1436	>	1.21	108	>	.023	6.7	47	1.17	>	>	75
63	GB063	4739.330	1449.270	1449.270	1	>	7	59	366	50	87	01	2.35	2084	>	1.52	101	>	.033	13.5	47	1.42	>	>	94
64	GB064	4739.880	1450.460	1450.460	13	>	6	60	510	115	12	01	.67	130	>	.29	615	>	.040	>	7	.18	>	>	39
65	GB065	4740.240	1450.150	1450.150	5	>	2	15	45	73	28	02	2.67	885	>	.88	113	>	.019	5.0	39	.50	>	>	74
66	GB066	4740.470	1450.810	1450.810	1	>	17	79	357	74	47	02	1.96	20	>	.26	217	>	.015	1.8	14	.89	>	>	75
67	GB067	4740.190	1450.810	1450.810	1	>	17	49	380	87	25	03	1.81	902	>	.26	136	>	.017	1.8	13	.88	>	>	83
68	GB068	4740.710	1450.690	1450.690	1	>	17	49	380	33	75	02	1.34	537	>	.37	120	>	.022	11.2	14	2.13	>	>	67
69	GB069	4740.650	1451.110	1451.110	4	>	15	15	385	125	42	02	.42	5	>	.17	297	>	.038	>	4	.33	>	>	45
70	GB070	4741.090	1450.800	1450.800	1	>	15	55	148	60	24	03	1.93	1482	>	1.95	91	>	.011	4.9	57	1.17	>	>	92
71	GB071	4741.190	1450.400	1450.400	1	>	11	50	201	54	26	01	2.58	1542	>	1.63	91	>	.012	9.3	36	1.10	>	>	90
72	GB072	4740.850	1450.230	1450.230	1	>	12	47	133	51	50	02	1.59	1474	>	1.54	78	>	.020	3.8	43	1.29	>	>	71
73	GB073	4740.980	1449.960	1449.960	2	>	12	47	133	34	62	03	2.23	1381	>	1.13	83	>	.008	5.6	51	1.06	>	>	72
74	GB074	4741.310	1449.600	1449.600	1	>	13	52	214	50	10	07	1.95	1272	>	1.30	79	>	.025	13.3	30	1.29	>	>	64
75	GB075	4740.950	1449.550	1449.550	1	>	5	37	152	59	11	05	3.44	1019	>	1.30	79	>	.015	7.4	53	.98	>	>	101
76	GB076	4740.450	1449.360	1449.360	1	>	18	65	269	47	28	03	1.16	862	>	.35	114	>	.011	9.0	20	1.67	>	>	72
77	GB077	4740.720	1449.350	1449.350	1	>	13	45	155	37	11	06	3.46	1544	>	1.41	68	>	.019	9.5	50	1.10	>	>	84
78	GB078	4740.300	1449.170	1449.170	1	>	8	61	326	45	57	01	1.65	784	>	.56	107	>	.031	14.6	16	1.65	>	>	70
79	GB079	4740.590	1448.780	1448.780	1	>	7	35	182	29	61	09	2.28	1193	>	1.33	64	>	.028	6.8	44	.98	>	>	68
80	GB080	4740.090	1448.780	1448.780	1	>	13	50	223	70	36	03	2.66	1943	>	.58	76	>	.019	18.0	25	1.39	>	>	74
81	GB081	4739.680	1448.960	1448.960	1	>	8	44	258	43	43	01	1.24	853	>	.66	78	>	.013	13.2	19	1.28	>	>	67
82	GB082	4739.430	1448.590	1448.590	1	>	9	51	241	67	35	05	1.63	746	>	1.54	81	>	.018	10.2	46	1.21	>	>	71
83	GB083	4739.820	1448.310	1448.310	1	>	12	40	243	53	36	11	1.83	1063	>	1.72	83	>	.027	7.5	55	1.09	>	>	70
84	GB084	4739.550	1448.110	1448.110	1	>	19	66	318	74	15	08	1.43	1697	>	.85	111	>	.010	7.1	33	1.46	>	>	88
85	GB085	4740.450	1448.260	1448.260	1	>	16	35	189	35	51	02	1.99	901	>	1.17	59	>	.022	5.5	49	.70	>	>	61
86	GB086	4740.750	1447.860	1447.860	1	>	13	27	337	77	10	03	3.14	479	>	1.73	89	>	.031	11.8	86	.27	>	>	64
87	GB087	4740.920	1447.420	1447.420	1	>	14	45	475	80	29	02	4.08	488	>	1.26	167	>	.035	11.3	45	.23	>	>	67
88	GB088	4740.960	1446.890	1446.890	1	>	13	54	333	84	67	03	4.95	1216	>	.94	135	>	.051	10.9	50	.31	>	>	87
89	GB089	4740.730	1446.590	1446.590	1	>	13	40	701	92	10	03	2.43	57	>	1.50	116	>	.030	7.0	50	.31	>	>	64
90	GB090	4741.250	1446.450	1446.450	1	>	81	36	675	80	64	05	3.13	1203	>	1.47	293	>	.017	11.1	32	.21	>	>	62
91	GB091	4741.090	1446.050	1446.050	1	>	154	7	61	19	54	1.09	1.09	197	>	1.25	30	>	.010	5.7	42	.31	>	>	61
92	GB092	4741.280	1444.980	1444.980	1	>	62	14	48	17	79	13	.54	1173	>	1.09	21	>	.015	>	56	.60	>	>	53
93	GB093	4740.900	1445.190	1445.190	1	>	146	34	391	57	23	.71	2.21	1135	>	1.36	138	>	.034	12.7	60	.72	>	>	93
94	GB094	4740.200	1444.880	1444.880	1	>	113	15	80	27	24	.62	.64	233	>	.36	55	>	.010	3.1	31	.38	>	>	72
95	GB095	4740.090	1444.440	1444.440	1	>	2	11	51	15	25	.45	.39	142	>	.25	26	>	.005	3.8	24	.29	>	>	39
96	GB096	4739.780	1443.820	1443.820	1	>	144	16	74	25	31	.91	.54	207	>	.15	31	>	.008	>	36	.38	>	>	62
97	GB097	4739.550	1443.420	1443.420	1	>	183	5	53	20	39	.97	.42	5	>	.14	18	>	.005	5.4	30	.28	>	>	47
98	GB098	4740.390	1445.410	1445.410	14	>	4	184	5	31	34	1.25	.62	5	>	.16	40	>	.006	1.2	50	.25	>	>	60
99	GB099	4740.300	1445.810	1445.810	1	>	139	8	108	34	34	1.25	.62	5	>	.37	60	>	.005	1.2	32	.44	>	>	80
100	GB100	4740.360	1446.280	1446.280	1	>	30	45	542	92	40	.01	2.86	741	>	1.40	161	>	.031	5.9	52	.30	>	>	62

List of Geochemical Analysis ( 3 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Nb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
101	GB101	4739.950 1446.410	>	>	11	48	425	60	45	.01	1.86	997	>	.85	128	>	.020	8.3	36	.37	>	>	48
102	GB102	4739.780 1446.600	>	>	12	45	240	84	13	.03	3.91	1200	>	1.14	108	>	.036	15.7	38	.36	>	>	83
103	GB103	4740.100 1446.910	>	>	4	54	248	47	39	.01>	2.71	1381	>	1.27	81	>	.025	13.2	56	.92	>	>	66
104	GB104	4739.840 1447.330	>	>	9	45	259	41	53	.03	2.99	1192	>	2.05	78	>	.039	17.2	71	.80	>	>	71
105	GB105	4739.950 1445.160	>	>	86	33	214	54	14	.56	2.06	901	>	1.25	68	>	.029	9.9	46	.71	>	>	98
106	GB106	4739.570 1445.640	>	>	112	12	103	17	15	.54	4.44	129	>	.56	35	>	.014	1.2	45	.40	>	>	53
107	GB107	4739.450 1446.240	>	>	73	25	134	48	19	.57	1.80	1394	>	1.89	33	>	.022	9.4	40	.71	>	>	76
108	GB108	4739.050 1446.000	>	>	176	18	115	48	10	1.86	1.62	384	>	.77	86	>	.039	10.4	47	.45	>	>	96
109	GB109	4739.050 1446.500	>	>	12	52	321	15	10	.03	2.98	936	>	2.14	79	>	.039	2.9	89	1.00	>	>	49
110	GB110	4738.920 1447.030	>	>	10	48	240	29	51	.02	3.60	1403	>	1.05	99	>	.036	15.2	32	1.11	>	>	72
111	GB111	4739.220 1445.210	>	>	101	15	87	22	18	.98	4.45	127	>	.45	38	>	.008	>	38	.47	>	>	56
112	GB112	4739.230 1445.210	>	>	106	32	268	53	32	.37	1.76	978	>	1.13	87	>	.024	7.8	48	.71	>	>	113
113	GB113	4738.870 1445.340	2	46	137	13	100	23	22	.73	.52	64	>	.62	53	>	.012	1.2	50	.28	>	>	84
114	GB114	4738.760 1444.860	2	5	107	11	87	24	32	.53	.39	67	>	.23	34	>	.006	4.1	28	.39	>	>	56
115	GB115	4738.390 1445.330	>	>	5	105	10	105	43	.72	.52	53	>	.50	45	>	.010	2.3	40	.31	>	>	64
116	GB116	4738.000 1445.420	>	>	63	58	267	70	55	.14	.87	2750	>	1.10	84	>	.019	4.8	33	.31	>	>	121
117	GB117	4737.580 1445.550	>	>	50	61	314	102	67	.13	1.37	1946	>	.71	112	>	.017	9.6	24	1.09	>	>	135
118	GB118	4737.820 1445.960	>	>	139	19	159	39	31	.87	.86	363	>	.53	65	>	.021	>	43	.52	>	>	88
119	GB119	4736.950 1446.920	>	>	22	49	877	49	24	.03	1.92	973	>	1.56	139	>	.030	12.3	41	.99	>	>	75
120	GB120	4736.680 1447.150	>	>	16	65	318	85	16	.27	1.05	1458	>	.14	127	>	.006	7.5	7	1.03	>	>	102
121	GB121	4736.950 1447.980	>	>	25	27	493	78	73	.14	.58	53	>	.08	258	>	.012	1.4	3	1.17	>	>	75
122	GB122	4736.640 1447.570	>	>	38	43	464	88	69	.53	.92	984	>	.11	206	>	.034	6.7	9	1.07	>	>	92
123	GB123	4737.160 1447.440	>	>	11	68	457	145	44	.07	1.00	963	>	.37	323	>	.018	10.8	19	1.08	>	>	135
124	GB124	4737.630 1447.290	>	>	19	64	343	221	51	.10	3.46	2762	4	.34	111	>	.025	12.1	19	1.06	>	>	343
125	GB125	4737.580 1447.840	>	>	8	35	179	72	16	.07	2.48	1641	>	.72	68	>	.014	9.4	37	.82	>	>	123
126	GB126	4737.220 1447.930	>	>	11	71	301	539	39	.05	1.85	1828	2	.21	122	>	.014	4.2	7	1.36	>	>	674
127	GB127	4737.440 1445.170	>	>	77	39	197	45	41	.28	1.65	1217	>	1.31	62	>	.020	7.4	51	.72	>	>	88
128	GB128	4737.530 1444.100	>	>	128	3	30	11	10>	.97	.43	53	>	.04	12	>	.005	.9	17	.23	>	>	36
129	GB129	4737.350 1443.620	6	1	139	1>	43	19	13	1.14	.40	53	>	.06	19	>	.006	.9	18	.28	>	>	43
130	GB130	4736.900 1444.550	>	>	130	4	50	18	22	1.04	.47	53	>	.08	19	>	.004	>	22	.35	>	>	51
131	GB131	4736.880 1444.900	>	>	79	9	97	26	47	.89	.42	53	>	.06	38	>	.005	1.9	16	.33	>	>	54
132	GB132	4736.750 1445.240	>	>	92	50	290	76	49	.78	1.95	1746	>	1.09	73	>	.012	8.4	29	1.07	>	>	102
133	GB133	4736.800 1445.720	>	>	191	57	191	75	94	.62	.87	2176	2	.67	61	>	.023	6.7	28	.82	>	>	90
134	GB134	4736.860 1446.280	>	>	40	55	435	60	52	.02	2.56	1088	>	1.30	124	>	.025	13.5	65	.39	>	>	62
135	GB135	4736.300 1445.110	>	>	67	63	240	93	59	.04	1.14	1285	>	1.69	91	>	.015	10.8	32	1.17	>	>	101
136	GB136	4736.080 1444.530	>	>	14	68	249	34	34	.02	1.33	2191	>	2.18	87	>	.022	4.2	56	1.10	>	>	67
137	GB137	4736.030 1445.000	>	>	14	77	287	74	56	.04	1.12	1440	>	1.19	82	>	.016	7.1	32	1.45	>	>	81
138	GB138	4735.180 1443.810	>	>	109	10	87	16	34	.71	.51	53	>	.26	38	>	.012	1.7	35	.33	>	>	49
139	GB139	4735.610 1444.020	12	>	142	20	111	27	28	1.04	.76	65	>	.45	59	>	.008	4.7	39	.36	>	>	65
140	GB140	4735.090 1444.430	>	>	23	68	275	39	52	.01>	1.06	728	>	.86	107	>	.011	10.2	2	1.38	>	>	53
141	GB141	4735.410 1444.750	>	>	13	52	199	131	41	.01	1.87	1375	>	1.71	65	>	.017	11.9	45	.97	>	>	59
142	GB142	4735.100 1444.890	>	>	17	80	329	828	67	.05	2.37	1826	>	.73	113	>	.030	4.2	17	1.10	>	>	179
143	GB143	4737.440 1450.400	>	>	110	60	197	76	12	.48	1.78	1076	>	.85	194	>	.012	14.3	51	1.35	>	>	124
144	GB144	4738.850 1450.770	>	6	28	368	2352	234	67	.01>	.34	3353	>	.09	1304	>	.103	20.1	1	.23	>	>	69



Appendix 22

List of stream sediment geochemical samples  
in Area B





Ser. No.	Sample No.	Coordinates		Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
		N	E								
1	GB501	1452.06	4735.00	S. Malubuk	—	P <sub>4</sub> Km	1	1.0	3	1	D.G.
2	GB502	1452.46	4734.77	S. Malubuk	sandstone	P <sub>4</sub> Km	1	1.5	3	1	D.G.
3	GB503	1452.38	4735.65	S. Malubuk	—	P <sub>4</sub> Km	2	3.0	3	1	D.G.
4	GB504	1451.90	4735.77	S. Malubuk	—	P <sub>4</sub> Km	2	3.0	3	1	D.B.
5	GB505	1451.40	4736.15	S. Malubuk	—	P <sub>4</sub> Km	2	3.0	3	1	D.B.
6	GB506	1450.93	4736.45	S. Malubuk	sandstone	P <sub>4</sub> Km	1	1.5	3	1	D.B.
7	GB507	1450.84	4736.33	S. Malubuk	sandstone	P <sub>4</sub> Km	1	3.0	3	1	D.B.
8	GB508	1450.50	4736.03	S. Malubuk	basalt	Csba	1	2.5	3	1	D.G.
9	GB509	1450.13	4735.68	S. Malubuk	basalt	Csba	1	2.0	3	1	D.G.
10	GB510	1449.88	4735.46	S. Malubuk	chert	Csch	1	1.5	3	1	D.G.
11	GB511	1449.54	4734.63	S. Malubuk	basalt	Csba	2	5.0	4	1	L.B.
12	GB512	1449.10	4734.72	S. Malubuk	basalt	Csba	2	4.5	4	1	L.B.
13	GB513	1448.97	4734.90	S. Malubuk	basalt	Csba	1	4.0	4	1	L.B.
14	GB514	1448.86	4734.81	S. Malubuk	basalt	Csba	2	4.0	4	1	L.B.
15	GB515	1448.30	4734.75	S. Malubuk	basalt	Csba	1	1.0	4	1	L.B.
16	GB516	1448.29	4734.86	S. Malubuk	basalt	Csba	2	4.0	4	1	L.B.
17	GB517	1448.02	4735.17	S. Malubuk	chert	Csch	1	1.5	4	1	L.B.
18	GB518	1447.88	4735.11	S. Malubuk	chert	Csch	2	4.0	4	1	L.B.
19	GB519	1447.65	4735.08	S. Malubuk	—	Pr	1	1.5	4	1	L.B.
20	GB520	1447.59	4735.28	S. Malubuk	—	Pr	1	4.0	4	1	L.B.
21	GB521	1447.41	4735.31	S. Malubuk	gabbro	Gb	1	3.0	4	1	L.B.
22	GB522	1447.31	4735.16	S. Malubuk	gabbro	Gb	1	4.0	4	1	L.B.
23	GB523	1447.21	4735.48	S. Malubuk	gabbro	Gb	1	1.0	4	1	L.B.
24	GB524	1446.79	4735.23	S. Malubuk	gabbro	Gb	1	1.5	4	1	L.B.
25	GB525	1446.74	4735.37	S. Malubuk	gabbro	Gb	1	2.0	4	1	L.B.
26	GB526	1452.78	4737.61	S. Malubuk	basalt	Csba	4	6.0	3	1	B.
27	GB527	1452.64	4738.00	S. Malubuk	basalt	Csba	4	4.0	3	1	B.G.
28	GB528	1452.33	4738.32	S. Malubuk	basalt	Csba	2	4.5	3	1	B.G.
29	GB529	1452.03	4738.22	S. Malubuk	—	Csba	2	4.0	3	1	B.G.
30	GB530	1451.69	4738.04	S. Malubuk	—	Csba	2	4.0	3	1	B.
31	GB531	1451.39	4737.80	S. Malubuk	basalt	Csba	2	4.0	3	1	B.
32	GB532	1450.48	4737.24	S. Malubuk	basalt	Csba	1	1.0	3	1	B.
33	GB533	1450.20	4736.89	S. Malubuk	basalt	Csba	1	1.5	3	1	B.
34	GB534	1449.89	4736.59	S. Malubuk	basalt	Csba	1	2.0	3	1	L.B.
35	GB535	1450.82	4737.61	S. Malubuk	—	Csba	2	3.0	3	1	B.G.
36	GB536	1450.56	4737.68	S. Malubuk	basalt	Csba	1	1.0	3	1	B.G.
37	GB537	1450.52	4737.53	S. Malubuk	basalt	Csba	2	3.0	3	1	B.G.
38	GB538	1450.13	4738.00	S. Malubuk	meta-gabbro	Gb	1	0.5	3	1	B.G.
39	GB539	1449.80	4737.60	S. Malubuk	basalt	Csba	2	3.0	3	1	B.
40	GB540	1449.36	4737.56	S. Malubuk	—	Csba	1	1.0	3	1	B.
41	GB541	1449.31	4737.42	S. Malubuk	—	Csba	1	3.0	3	1	B.
42	GB542	1449.41	4737.37	S. Malubuk	—	Csba	1	1.0	3	1	B.
43	GB543	1448.89	4737.33	S. Malubuk	—	Pr	1	2.5	3	1	D.B.
44	GB544	1448.69	4736.95	S. Malubuk	—	Pr	1	2.0	3	1	D.B.
45	GB545	1448.48	4736.67	S. Malubuk	—	Pr	1	2.0	3	1	D.B.
46	GB546	1452.47	4738.92	S. Malubuk	chert	Csch	4	6.0	3	1	B,G
47	GB547	1452.58	4739.16	S. Malubuk	basaltic bre	Csba	1	1.0	3	1	B.G.
48	GB548	1452.40	4739.35	S. Malubuk	chert	Csch	1	1.5	3	1	B.G.
49	GB549	1452.25	4739.26	S. Malubuk	chert	Csch	4	5.0	4	1	B.
50	GB550	1451.85	4739.27	S. Malubuk	breccia	Csba	4	4.0	4	1	G.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Coordinates		Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
		N	E								
51	GB551	1451.60	4739.37	S. Malubuk	sheared bre.	Csba	4	4.0	4	1	B.G.
52	GB552	1451.67	4740.00	S. Malubuk	—	Csba	2	3.0	3	1	B.G.
53	GB553	1451.75	4740.22	S. Malubuk	breccia	Csba	2	3.0	3	1	B.G.
54	GB554	1451.91	4740.49	S. Malubuk	breccia	Csba	2	2.0	3	1	B.G.
55	GB555	1451.76	4740.53	S. Malubuk	breccia	Csba	1	1.0	3	1	B.G.
56	GB556	1451.11	4739.51	S. Malubuk	—	Gb	4	4.0	4	1	B.G.
57	GB557	1450.85	4739.60	S. Malubuk	—	Gb	4	4.0	4	1	B.G.
58	GB558	1450.21	4739.38	S. Malubuk	gabbro	Gb	2	2.5	3	1	D.B.
59	GB559	1450.20	4739.01	S. Malubuk	gabbro	Gb	1	1.0	3	1	D.B.
50	GB560	1450.22	4738.87	S. Malubuk	gabbro	Gb	1	2.0	3	1	D.B.
61	GB561	1450.07	4739.52	S. Malubuk	dolerite	Do	2	2.0	3	1	G.
62	GB562	1449.71	4739.53	S. Malubuk	basalt	Do	2	2.0	3	1	D.G.
63	GB563	1449.34	4739.63	S. Malubuk	basalt	Do	1	0.8	3	1	D.G.
64	GB564	1449.26	4739.50	S. Malubuk	—	Do	1	1.5	3	1	D.G.
65	GB565	1450.64	4739.85	S. Malubuk	—	Gb	3	5.0	3	1	D.G.
66	GB566	1450.18	4739.97	S. Malubuk	dolerite	Do	1	1.0	3	1	D.G.
67	GB567	1450.69	4740.52	S. Malubuk	dolerite	Do	1	1.0	3	1	D.G.
68	GB568	1450.88	4740.58	S. Malubuk	dolerite	Do	3	5.0	3	1	D.G.
69	GB569	1450.98	4740.76	S. Malubuk	dolerite	Do	1	1.0	3	1	D.G.
70	GB570	1451.00	4741.29	S. Malubuk	dolerite	Do	3	4.0	3	1	D.G.
71	GB571	1450.85	4741.22	S. Malubuk	dolerite	Do	3	3.0	3	1	D.G.
72	GB572	1450.48	4741.33	S. Malubuk	dolerite	Do	1	2.5	3	1	D.G.
73	GB573	1450.53	4741.17	S. Malubuk	dolerite	Do	3	3.0	3	1	D.G.
74	GB574	1449.96	4740.80	S. Malubuk	dolerite	Do	2	2.5	3	1	D.G.
75	GB575	1449.48	4741.25	S. Malubuk	—	Do	1	1.0	3	2	Gn.G.
76	GB576	1449.42	4741.09	S. Malubuk	—	Do	1	2.0	3	2	Gn.G.
77	GB577	1450.15	4740.77	S. Malubuk	dolerite	Do	2	4.0	3	1	D.G.
78	GB578	1449.72	4740.60	S. Malubuk	dolerite	Do	2	2.5	3	1	B.G.
79	GB579	1449.18	4740.65	S. Malubuk	dolerite	Do	1	1.0	3	1	B.G.
80	GB580	1449.19	4740.52	S. Malubuk	dolerite	Do	2	2.5	3	1	B.G.
81	GB581	1448.89	4740.46	S. Malubuk	dolerite	Do	1	1.0	3	1	B.G.
82	GB582	1449.00	4740.34	S. Malubuk	—	Do	2	2.5	3	1	B.G.
83	GB583	1448.79	4739.95	S. Malubuk	—	Do	1	0.5	3	1	B.G.
84	GB584	1448.84	4739.84	S. Malubuk	—	Do	2	2.0	3	1	B.G.
85	GB585	1448.40	4739.66	S. Malubuk	—	Do	1	1.0	3	1	B.G.
86	GB586	1448.44	4739.54	S. Malubuk	—	Do	1	0.5	2	1	B.G.
87	GB587	1446.09	4741.34	S. Karangan	sandstone	P <sub>4</sub> Km	2	2.5	4	1	D.G.
88	GB588	1446.42	4741.08	S. Karangan	sili. rock	Gb	2	2.5	4	1	G.B.
89	GB589	1446.75	4740.78	S. Karangan	gabbro	Gb	1	0.5	4	1	B.G.
90	GB590	1446.90	4740.82	S. Karangan	gabbro	Gb	1	2.0	4	1	G.B.
91	GB591	1445.00	4740.94	S. Karangan	shale	P <sub>4</sub> Km	5	5.0	3	2	G.B.
92	GB592	1445.80	4740.11	S. Karangan	sandstone	P <sub>4</sub> Km	2	2.5	4	1	G.B.
93	GB593	1446.11	4740.18	S. Karangan	—	P <sub>4</sub> Km	2	2.0	4	1	D.B.
94	GB594	1446.45	4740.29	S. Karangan	gabbro	Gb	1	0.5	4	2	G.B.
95	GB595	1446.48	4740.14	S. Karangan	gabbro	Gb	2	1.5	4	1	G.B.
96	GB596	1446.75	4739.89	S. Karangan	gabbro	Gb	1	0.7	4	3	G.B.
97	GB597	1446.88	4739.95	S. Karangan	gabbro	Gb	1	1.5	4	2	G.B.
98	GB598	1445.31	4740.10	S. Karangan	sandstone	P <sub>4</sub> Km	4	5.0	3	3	D.B.
99	GB599	1445.47	4739.76	S. Karangan	sandstone	P <sub>4</sub> Km	4	6.0	3	2	G.B.
100	GB600	1445.85	4739.36	S. Karangan	—	P <sub>4</sub> Km	2	2.5	4	1	G.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)

\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Coordinates		Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
		N	E								
101	GB601	1446.10	4739.19	S. Karangan	—	P <sub>4</sub> Km	1	1.0	4	1	G.
102	GB602	1446.24	4739.28	S. Karangan	—	P <sub>4</sub> Km	2	2.0	4	2	D.B.
103	GB603	1446.67	4739.22	S. Karangan	gb./bt.	Do	2	2.0	4	1	D.B.
104	GB604	1447.20	4738.93	S. Karangan	basalt	Do	1	1.0	4	1	D.B.
105	GB605	1447.35	4738.98	S. Karangan	basalt	Do	1	2.0	4	1	D.B.
106	GB606	1445.41	4739.13	S. Karangan	shale	P <sub>4</sub> Km	1	1.0	4	1	B.G.
107	GB607	1445.24	4739.12	S. Karangan	shale	P <sub>4</sub> Km	4	5.0	3	2	B.G.
108	GB608	1445.24	4738.72	S. Karangan	sandstone	P <sub>4</sub> Km	1	0.5	3	2	D.B.
109	GB609	1445.07	4738.68	S. Karangan	sandstone	P <sub>4</sub> Km	4	5.0	4	2	D.B.
110	GB610	1445.40	4738.22	S. Karangan	s.s./shale	P <sub>4</sub> Km	1	0.5	3	2	D.B.
111	GB611	1445.55	4737.75	S. Karangan	shale	P <sub>4</sub> Km	3	5.0	3	1	G.B.
112	GB612	1445.89	4737.67	S. Karangan	sandstone	P <sub>4</sub> Km	3	5.0	4	1	D.B.
113	GB613	1445.99	4737.36	S. Karangan	basalt	Do	1	1.0	4	1	D.B.
114	GB614	1446.13	4737.39	S. Karangan	basalt	Do	3	4.0	4	1	B.G.
115	GB615	1446.51	4737.14	S. Karangan	basalt	Do	1	1.5	4	1	D.B.
116	GB616	1446.66	4737.24	S. Karangan	basalt	Do	3	3.5	4	1	D.B.
117	GB617	1447.01	4737.09	S. Karangan	basalt	Do	2	3.0	4	1	D.B.
118	GB618	1447.20	4736.88	S. Karangan	basalt	Do	2	3.0	4	1	D.B.
119	GB619	1447.28	4736.57	S. Karangan	—	Do	1	2.0	4	1	D.B.
120	GB620	1447.42	4736.60	S. Karangan	—	Do	1	2.0	4	1	D.B.
121	GB621	1447.05	4737.26	S. Karangan	basalt	Do	2	3.0	4	1	D.B.
122	GB622	1447.35	4737.45	S. Karangan	basalt	Do	1	1.0	4	1	D.B.
123	GB623	1447.46	4737.33	S. Karangan	brec. basalt	Do	2	2.0	4	1	D.B.
124	GB624	1447.70	4737.44	S. Karangan	brec. basalt	Do	1	1.0	4	1	D.B.
125	GB625	1447.81	4737.35	S. Karangan	brec. basalt	Do	1	2.0	4	1	D.B.
126	GB626	1445.00	4737.80	S. Karangan	shale	P <sub>4</sub> Km	3	3.0	3	2	G.B.
127	GB627	1444.78	4737.72	S. Karangan	sandstone	P <sub>4</sub> Km	3	3.5	3	2	G.B.
128	GB628	1445.04	4737.35	S. Karangan	sandstone	P <sub>4</sub> Km	1	1.0	3	2	D.B.
129	GB629	1444.57	4737.58	S. Karangan	—	P <sub>4</sub> Km	1	1.0	3	2	B.
130	GB630	1444.65	4737.41	S. Karangan	—	P <sub>4</sub> Km	3	3.5	3	2	D.B.
131	GB631	1444.91	4736.64	S. Karangan	sandstone	P <sub>4</sub> Km	2	2.0	4	1	D.B.
132	GB632	1445.26	4736.60	S. Karangan	chert	Do	1	1.0	4	1	D.B.
133	GB633	1445.19	4736.47	S. Karangan	chert	Do	1	1.5	4	1	D.B.
134	GB634	1444.78	4736.59	S. Karangan	sandstone	P <sub>4</sub> Km	2	2.0	4	1	D.B.
135	GB635	1444.79	4736.00	S. Karangan	—	P <sub>4</sub> Km	1	0.7	4	1	D.B.
136	GB636	1444.69	4736.04	S. Karangan	—	P <sub>4</sub> Km	1	1.0	4	1	D.B.
137	GB637	1443.97	4735.30	S. Banum	—	P <sub>4</sub> Km	1	0.7	3	1	D.B.
138	GB638	1444.03	4735.45	S. Banum	—	P <sub>4</sub> Km	2	2.5	4	1	G.B.
139	GB639	1444.48	4735.26	S. Banum	gabbro	Gb	1	1.5	4	1	G.B.
140	GB640	1444.60	4735.32	S. Banum	—	Do	1	1.5	4	1	D.B.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

\*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)



Appendix 23

Analytical results of stream sediment  
geochemical samples in Area B



List of Geochemical Analysis ( 1 )

Ser. No.	Sample No.	Location (km)	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mb %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
		X-coord Y-coord																					
1	GB501	4735.000 1452.060	1	>	87	13	477	20	10	.44	1.24	546	>	.85	54	>	.022	6.3	56	.43	1.0	>	51
2	GB502	4734.770 1452.460	1	>	68	14	591	17	10	.31	1.09	410	>	.77	47	>	.020	14.3	50	.42	1.0	>	44
3	GB503	4735.650 1452.380	2	>	128	25	334	27	20	.75	1.67	542	>	.37	112	>	.033	7.5	55	.64	1.0	>	86
4	GB504	4735.770 1451.900	1	>	139	29	443	36	12	.96	1.96	806	>	.56	143	>	.022	17.1	70	.83	1.0	>	105
5	GB505	4736.150 1451.400	1	>	160	31	398	38	18	1.04	2.17	944	1	.70	151	>	.026	13.2	83	.94	.8	>	109
6	GB506	4736.450 1450.930	1	>	174	34	427	40	12	1.09	2.25	891	>	.64	154	>	.038	13.5	90	1.04	.8	>	126
7	GB507	4736.330 1450.840	1	>	136	36	334	40	10	1.10	2.08	914	2	.50	151	>	.020	14.1	73	.81	1.0	>	115
8	GB508	4736.600 1450.500	1	>	137	36	242	42	10	1.46	2.73	1121	2	.51	156	>	.028	3.6	62	.75	1.4	>	119
9	GB509	4735.680 1450.130	1	>	134	35	300	32	21	.74	1.59	675	1	.44	125	>	.016	8.9	71	1.02	.8	>	109
10	GB510	4735.460 1449.880	1	>	182	47	351	43	16	1.13	2.03	909	2	.77	170	>	.020	14.6	89	1.22	.8	>	138
11	GB511	4734.630 1449.540	1	>	77	37	1034	56	10	.67	4.66	1172	>	.77	282	>	.042	8.8	57	.67	.6	>	106
12	GB512	4734.720 1448.100	1	>	97	48	932	63	10	.85	5.38	1368	1	.93	322	>	.046	11.1	65	.71	.6	>	117
13	GB513	4734.900 1448.970	1	>	114	49	895	59	10	.81	5.24	1308	>	.61	193	>	.030	12.3	92	1.00	.6	>	114
14	GB514	4734.810 1448.860	1	>	89	39	666	41	12	.60	3.29	1013	>	.89	298	>	.047	17.0	63	.70	.6	>	115
15	GB515	4734.750 1448.300	1	>	118	38	632	40	10	.57	3.55	1005	>	.98	285	>	.024	11.7	111	1.01	.4	>	115
16	GB516	4734.860 1448.290	1	>	78	52	667	62	10	.71	4.80	1233	>	.79	309	>	.039	9.2	59	.98	1.0	>	109
17	GB517	4735.170 1448.020	3	>	110	29	594	48	10	.96	2.93	1279	>	.50	230	5	.028	10.3	47	.45	1.2	>	101
18	GB518	4735.110 1447.880	1	>	40	42	682	63	10	.60	6.43	1029	>	1.00	341	>	.051	11.9	60	.60	.4	>	108
19	GB519	4735.080 1447.690	3	>	3	94	5144	61	13	.01	7.22	712	>	.43	965	>	.038	19.2	39	.14	.2	>	109
20	GB520	4735.280 1447.590	1	>	3	42	878	66	12	.03	5.49	1085	>	1.01	211	>	.054	9.6	61	.84	.2	>	90
21	GB521	4735.310 1447.410	1	>	3	37	749	57	10	.03	4.54	1078	>	.95	163	>	.046	10.0	57	.93	.2	>	81
22	GB522	4735.160 1447.310	1	>	4	38	1376	39	10	.01	5.53	1939	>	1.19	189	>	.050	19.2	49	1.54	.2	>	91
23	GB523	4735.480 1447.210	1	>	3	36	1012	37	10	.01	5.74	780	>	.43	168	>	.052	9.5	32	.43	.2	>	73
24	GB524	4735.230 1446.790	1	>	6	35	756	60	11	.04	5.20	1065	>	1.19	198	>	.049	13.5	67	.82	.2	>	91
25	GB525	4735.370 1446.740	1	>	3	31	693	60	10	.03	4.59	1123	>	.96	156	>	.048	12.9	58	.98	.2	>	84
26	GB526	4737.610 1452.780	1	>	18	35	480	28	10	.15	4.42	1603	>	1.34	101	>	.051	12.6	73	1.57	.2	>	92
27	GB527	4738.000 1452.640	1	>	16	37	493	29	10	.16	4.30	1515	>	1.36	103	>	.050	10.1	72	1.51	.2	>	91
28	GB528	4738.320 1452.330	1	>	63	47	1657	34	10	.53	4.51	1475	>	.72	212	>	.036	25.5	60	1.59	.4	>	124
29	GB529	4738.220 1452.030	1	>	55	31	812	32	10	.46	3.80	1048	>	.84	212	>	.030	13.2	54	.95	.2	>	100
30	GB530	4738.040 1451.690	1	>	78	47	1147	45	11	.74	4.72	1364	>	.84	297	>	.036	19.0	54	1.15	.4	>	128
31	GB531	4737.800 1451.390	1	>	60	34	792	37	10	.55	3.82	1102	>	.60	247	5	.032	12.9	56	1.08	.4	>	103
32	GB532	4737.240 1450.480	1	>	122	34	288	54	12	1.01	2.29	1247	1	.60	156	>	.023	14.9	90	1.18	.6	>	141
33	GB533	4736.890 1450.200	1	>	29	36	310	56	10	.09	2.39	1434	2	.59	160	>	.021	16.9	89	1.18	.4	>	150
34	GB534	4736.590 1449.890	1	>	118	38	318	54	13	1.03	2.37	1387	1	.58	160	>	.023	13.1	88	1.12	.4	>	147
35	GB535	4737.610 1450.820	1	>	9	37	1028	28	10	.30	5.00	1025	>	.66	317	>	.035	15.3	36	.80	.2	>	88
36	GB536	4737.680 1450.560	4	>	17	52	1294	49	10	.11	6.50	962	>	.62	243	>	.054	8.6	40	.55	.2	>	93
37	GB537	4737.530 1450.520	1	>	29	49	1725	32	10	.36	6.16	1446	>	.82	366	>	.046	20.5	45	1.27	.2	>	113
38	GB538	4738.000 1450.130	7	>	4	44	670	48	10	.01	4.80	861	>	.66	138	>	.044	12.1	42	.80	.2	>	86
39	GB539	4737.600 1449.800	1	>	43	43	1277	36	10	.47	5.69	1155	>	.64	462	>	.040	13.2	36	.72	.6	>	108
40	GB540	4737.560 1449.360	1	>	14	45	635	46	10	.12	4.65	1395	>	1.29	183	>	.054	8.8	51	1.08	.2	>	96
41	GB541	4737.420 1449.310	1	>	46	54	1212	48	10	.51	6.57	1363	>	1.02	537	>	.050	12.4	42	.82	.6	>	121
42	GB542	4737.370 1449.410	1	>	69	29	679	38	10	.91	2.40	1157	>	.57	137	>	.029	13.3	57	.82	.4	>	112
43	GB543	4737.330 1448.890	1	>	68	54	1344	42	10	.71	6.21	1253	>	.47	641	>	.029	11.3	25	.44	1.0	>	120
44	GB544	4736.950 1448.690	7	>	79	36	1442	49	11	.80	4.72	1145	>	.44	460	>	.030	9.2	25	.42	.8	>	113
45	GB545	4736.670 1448.480	1	>	56	52	1473	36	10	.53	6.45	1144	>	.44	704	>	.023	12.9	24	.40	.6	>	116
46	GB546	4738.920 1452.470	1	>	15	51	547	32	10	.34	4.46	1634	>	1.36	105	>	.051	15.8	76	1.54	.2	>	93
47	GB547	4739.160 1452.580	1	>	76	16	409	15	10	.60	3.35	502	>	.27	99	>	.034	10.3	45	.82	.8	>	56
48	GB548	4739.350 1452.400	3	>	71	33	882	49	10	.20	3.80	1233	1	1.02	102	>	.043	17.4	72	.80	.8	>	109
49	GB549	4739.260 1452.250	1	>	19	44	476	31	10	.20	3.80	1382	>	1.02	102	>	.043	15.2	60	1.23	.2	>	82
50	GB550	4739.270 1451.850	1	>	10	44	345	31	10	.12	3.88	1349	>	1.58	91	>	.041	12.5	65	1.26	.2	>	85



List of Geochemical Analysis ( 2 )

Ser. No.	Sample No.	X-coord	Y-coord	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
51	C3551	4739.370	1451.600		1	>	15	41	387	29	10	.11	3.77	1389	>	1.29	89	>	.045	17.0	63	1.26	.2	>	83
52	C3552	4740.000	1451.670		6	>	15	51	915	33	10	.12	5.49	1598	2	1.12	197	3	.067	20.7	67	1.29	.2	>	96
53	C3553	4740.220	1451.750		1	>	16	41	1767	28	10	.09	4.88	1706	1	.85	171	4	.070	10.7	55	1.70	.2	>	92
54	C3554	4740.490	1451.910		1	>	10	42	696	25	11	.06	5.13	1691	>	.95	141	4	.065	15.5	55	1.51	.2	>	89
55	C3555	4740.530	1451.760		1	>	30	49	1616	48	10	.30	5.87	1417	>	.74	313	2	.084	20.4	45	1.00	.2	>	102
56	C3556	4739.510	1451.110		1	>	11	36	377	28	10	.10	4.02	1508	>	1.33	78	2	.049	8.7	67	1.40	.2	>	87
57	C3557	4739.600	1450.850		1	>	15	42	366	25	10	.08	3.77	1494	>	1.15	75	2	.049	10.3	67	1.50	.2	>	85
58	C3558	4739.380	1450.210		1	>	5	38	557	28	10	.01	4.40	1463	>	1.58	98	2	.050	16.7	71	1.50	.2	>	80
59	C3559	4739.010	1450.200		1	>	38	38	384	24	10	.02	4.03	1286	>	1.37	86	2	.044	6.8	59	1.30	.2	>	74
60	C3560	4738.870	1450.220		1	>	7	42	544	26	10	.02	4.29	1399	>	1.45	92	2	.046	18.1	70	1.42	.2	>	79
61	C3561	4739.520	1450.070		1	>	33	33	372	20	10	.02	4.12	1412	>	1.21	76	2	.046	12.3	65	1.44	.2	>	77
62	C3562	4739.530	1449.710		1	>	5	43	365	27	10	.01	4.36	1502	>	1.66	87	2	.046	11.9	74	1.45	.2	>	84
63	C3563	4739.630	1449.340		2	>	9	48	386	27	10	.01	4.91	1492	>	1.11	89	2	.052	14.0	80	1.24	.2	>	79
64	C3564	4739.850	1449.260		3	>	9	38	397	24	10	.02	4.37	1637	>	1.57	82	2	.045	20.9	82	1.81	.2	>	92
65	C3565	4739.850	1450.640		1	>	11	33	385	22	10	.08	3.65	1887	>	.94	55	2	.055	21.4	57	2.04	.2	>	91
66	C3566	4739.970	1450.180		2	>	14	40	362	19	10	.03	4.21	1391	>	1.57	78	2	.053	15.1	101	1.48	.2	>	78
67	C3567	4740.520	1450.690		1	>	10	32	318	14	10	.01	3.86	1429	>	.98	72	2	.040	17.2	58	1.70	.2	>	69
68	C3568	4740.580	1450.880		1	>	16	48	376	34	10	.17	4.07	1892	>	1.45	75	2	.051	14.4	62	1.80	.2	>	103
69	C3569	4740.760	1450.980		1	>	6	41	863	37	10	.01	4.74	1542	>	1.53	170	2	.038	17.4	35	1.57	.2	>	82
70	C3570	4741.290	1451.000		1	>	5	33	326	25	10	.04	3.86	1416	>	1.25	68	2	.041	18.1	58	1.44	.2	>	82
71	C3571	4741.220	1450.850		1	>	10	52	303	20	10	.07	4.44	1821	>	1.54	75	2	.047	21.9	58	1.97	.2	>	95
72	C3572	4741.330	1450.480		1	>	8	34	395	25	10	.05	4.06	1493	>	1.36	72	2	.048	19.5	62	1.52	.2	>	84
73	C3573	4741.170	1450.530		1	>	8	33	314	16	10	.04	3.58	1398	>	1.07	64	2	.044	20.3	62	1.38	.2	>	71
74	C3574	4740.800	1449.960		1	>	8	44	412	20	10	.06	4.61	1614	>	1.60	79	2	.051	18.5	75	1.81	.2	>	90
75	C3575	4741.250	1449.480		1	>	6	44	404	25	10	.06	4.43	1287	>	1.61	86	2	.048	13.8	66	1.54	.2	>	90
76	C3576	4741.090	1449.420		3	>	9	32	353	28	10	.06	4.01	1435	>	1.42	72	2	.043	11.0	59	1.42	.2	>	87
77	C3577	4740.770	1450.150		1	>	6	31	394	28	10	.05	4.32	1579	>	1.49	74	2	.046	20.3	62	1.59	.2	>	91
78	C3578	4740.600	1449.720		1	>	7	36	463	24	10	.05	4.72	1563	>	1.33	80	2	.054	12.4	58	1.50	.2	>	87
79	C3579	4740.650	1449.180		1	>	13	34	323	31	10	.05	3.70	1401	>	1.28	69	2	.040	13.1	53	1.34	.2	>	87
80	C3580	4740.520	1449.190		1	>	6	42	383	36	10	.07	4.36	1620	>	1.59	78	2	.046	15.3	62	1.53	.2	>	102
81	C3581	4740.460	1448.890		1	>	5	32	367	27	10	.05	3.88	1367	>	1.39	73	2	.042	15.9	54	1.39	.2	>	87
82	C3582	4740.340	1449.000		1	>	11	41	371	36	10	.08	4.19	1637	>	1.62	76	2	.050	17.9	60	1.50	.2	>	98
83	C3583	4739.950	1448.790		1	>	8	34	243	20	10	.12	3.14	1444	>	1.20	63	2	.033	15.4	42	1.31	.2	>	66
84	C3584	4739.840	1448.840		1	>	16	44	334	38	10	.10	3.73	1492	>	1.60	70	2	.057	17.7	54	1.31	.2	>	84
85	C3585	4739.660	1448.400		1	>	6	28	278	25	10	.06	3.18	1202	>	1.20	54	2	.037	12.3	43	1.09	.2	>	65
86	C3586	4739.540	1448.440		1	>	10	42	328	29	10	.11	3.24	1680	>	1.58	67	2	.210	13.0	55	1.30	.2	>	126
87	C3587	4741.340	1446.090		1	>	48	25	308	23	10	.27	2.89	880	>	1.15	60	2	.055	11.5	60	.94	.6	>	60
88	C3588	4741.080	1446.420		1	>	39	29	379	34	10	.23	3.67	1108	>	1.42	67	2	.053	9.4	64	1.12	.2	>	67
89	C3589	4740.780	1446.750		1	>	4	29	547	38	10	.01	3.72	707	>	1.67	95	2	.056	4.1	66	1.60	.2	>	57
90	C3590	4740.820	1446.900		1	>	7	30	412	23	10	.04	4.03	1477	>	1.48	68	2	.048	12.3	66	1.73	.2	>	68
91	C3591	4740.940	1445.000		1	>	62	24	321	40	13	.44	2.48	851	>	1.32	62	2	.074	10.6	56	.74	.8	>	72
92	C3592	4740.110	1445.800		1	>	27	33	398	34	10	.13	3.90	888	>	1.44	93	2	.055	6.0	62	.75	.2	>	63
93	C3593	4740.180	1446.110		1	>	8	34	407	30	10	.03	3.90	1082	>	1.56	83	2	.055	4.3	63	.90	.2	>	65
94	C3594	4740.290	1446.450		1	>	7	30	499	38	10	.02	4.65	860	>	1.41	106	2	.062	10.1	61	.60	.2	>	64
95	C3595	4740.140	1446.480		1	>	7	30	457	31	10	.03	4.14	1010	>	1.53	79	2	.048	10.1	63	.88	.2	>	64
96	C3596	4739.890	1446.750		1	>	2	30	499	25	10	.01	4.14	1411	>	1.17	84	2	.054	8.3	51	1.28	.2	>	69
97	C3597	4740.100	1445.310		1	>	6	41	292	22	10	.04	3.47	1166	>	1.52	58	2	.036	17.4	59	1.24	.2	>	64
98	C3598	4739.760	1445.470		1	>	66	24	270	49	11	.54	2.46	934	>	1.48	66	2	.064	13.6	54	.75	.4	>	83
99	C3599	4739.800	1445.470		1	>	63	23	291	48	12	.42	2.25	867	>	1.09	57	2	.097	12.6	45	.75	.6	>	75
100	C3600	4739.360	1445.850		1	>	96	31	249	40	14	.75	2.81	1095	2	1.61	57	2	.102	17.5	62	1.02	.8	>	75

List of Geochemical Analysis ( 3 )

Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm
101	GB601	4735.190	1446.100	>	>	169	21	135	45	45	24	1.48	1.80	767	3	1.15	72	>	.103	4.9	49	.52	1.8	>	80
102	GB602	4739.280	1446.240	>	>	12	34	343	39	39	10>	.08	4.01	1318	1>	1.69	69	>	.063	15.9	54	1.65	>	>	86
103	GB603	4739.220	1446.670	>	>	9	30	310	38	38	10>	.09	3.72	1188	1>	1.60	62	>	.054	10.2	54	1.36	>	>	85
104	GB604	4738.930	1447.200	>	>	4	40	340	18	10>	10>	.05	3.86	1231	1>	1.72	69	>	.044	13.3	60	1.40	>	>	82
105	GB605	4738.980	1447.350	>	>	11	35	312	73	10>	10>	.14	3.80	1406	1>	1.87	67	>	.079	11.8	60	1.38	>	>	134
106	GB606	4739.130	1445.410	>	>	109	32	233	33	33	16	.60	2.25	1000	1>	1.63	56	>	.093	9.4	59	.85	.6	5	59
107	GB607	4739.120	1445.240	>	>	172	16	142	25	26	26	.38	2.32	940	1>	.96	57	>	.137	13.3	48	.78	.8	80	80
108	GB608	4738.720	1445.240	>	>	142	16	142	25	26	26	.01	.83	334	1>	.69	46	>	.095	7.7	55	.28	1.8	73	73
109	GB609	4738.680	1445.070	>	>	75	26	445	61	61	10>	1.41	2.46	955	1>	1.00	62	>	.127	11.2	48	.79	.4	90	90
110	GB610	4738.220	1445.400	>	>	121	16	219	20	20	14	.59	.92	424	1>	.73	35	>	.045	3.5	44	.38	1.2	53	53
111	GB611	4737.750	1445.550	>	>	68	44	594	93	93	10>	.68	3.67	1411	1>	1.67	91	>	.150	16.1	68	1.17	.4	130	130
112	GB612	4737.670	1445.890	>	>	41	54	948	111	10>	10>	.43	4.08	1579	1>	1.71	106	>	.257	17.8	64	1.32	>	>	144
113	GB613	4737.360	1445.990	>	>	22	43	440	53	10>	10>	.11	4.47	1504	1>	2.12	81	>	.117	12.0	93	1.38	>	>	100
114	GB614	4737.390	1446.130	>	>	32	49	1400	139	10>	10>	.42	4.42	1652	1>	1.58	109	>	.467	21.1	61	1.42	>	>	155
115	GB615	4737.140	1446.510	>	>	29	40	424	75	10>	10>	.56	3.89	1648	1>	2.04	80	>	.140	20.3	59	1.29	>	>	140
116	GB616	4737.240	1446.660	>	>	33	51	707	107	10>	10>	.52	3.56	1602	1>	1.33	151	>	.062	16.1	50	1.33	>	>	119
117	GB617	4737.090	1447.010	>	>	28	61	1176	76	10>	10>	.30	3.55	1871	1>	1.70	192	>	.033	15.3	59	1.39	>	>	109
118	GB618	4736.880	1447.200	>	>	18	61	670	76	10>	10>	.21	3.93	2054	1>	1.93	94	>	.041	13.6	61	1.69	>	>	101
119	GB619	4736.570	1447.280	>	>	11	80	8314	101	12	10>	.32	4.01	1727	1>	.54	549	>	.037	36.1	32	1.48	>	>	163
120	GB620	4736.600	1447.420	>	>	25	56	560	153	10>	10>	.48	3.88	1615	1>	1.38	95	>	.235	25.1	58	1.28	>	>	195
121	GB621	4737.260	1447.050	>	>	15	51	396	51	11	11	.21	4.11	1530	1>	2.19	85	>	.120	13.9	67	1.62	>	>	120
122	GB622	4737.450	1447.350	>	>	26	60	457	152	10>	10>	.24	4.06	1562	1>	2.01	76	>	.111	18.4	72	1.52	.4	>	199
123	GB623	4737.440	1447.700	>	>	15	49	343	61	10>	10>	.46	3.68	1751	1>	1.13	100	>	.164	13.1	57	1.28	>	>	109
124	GB624	4737.440	1447.700	>	>	28	60	457	152	10>	10>	.56	3.62	1986	1>	1.03	107	>	.039	16.8	52	1.30	>	>	218
125	GB625	4737.350	1447.810	>	>	38	55	450	160	10>	10>	.39	1.76	711	1>	.85	48	>	.050	8.8	39	.61	1.0	>	59
126	GB626	4737.800	1445.000	>	>	71	21	297	37	10>	10>	.50	1.99	741	1>	1.02	49	>	.046	8.9	42	.64	.8	5	65
127	GB627	4737.720	1444.760	>	>	69	24	268	41	10>	10>	.38	2.69	972	1>	1.49	61	>	.060	15.1	67	1.07	.6	2	70
128	GB628	4737.350	1445.040	>	>	100	5	354	11	10	10	.48	.38	126	2	.26	21	>	.011	3.1	20	.23	2.0	2	70
129	GB629	4737.580	1444.570	>	>	86	24	324	52	10>	10>	.46	2.46	1008	1>	1.15	57	>	.065	9.7	46	.78	.6	2	73
130	GB630	4737.410	1444.650	>	>	60	47	363	88	10>	10>	.56	3.60	1467	1>	1.91	80	>	.081	12.4	62	1.05	.2	2	125
131	GB631	4736.640	1444.910	>	>	36	41	387	43	10>	10>	.49	3.90	1328	1>	2.37	74	>	.076	7.0	86	1.16	.2	2	90
132	GB632	4736.600	1445.190	>	>	29	45	350	99	10>	10>	.53	3.29	1411	1>	1.85	79	>	.082	13.5	61	1.11	.2	2	120
133	GB633	4736.470	1445.190	>	>	3	10	406	50	10>	10>	.10	3.88	1353	1>	2.57	77	>	.058	14.3	60	1.02	.6	2	89
134	GB634	4736.550	1444.780	>	>	70	38	356	54	10>	10>	.46	3.55	1217	1>	1.72	77	>	.048	10.9	72	1.32	.2	2	92
135	GB635	4736.000	1444.790	>	>	20	44	407	41	10>	10>	.46	3.55	1217	1>	2.38	92	>	.048	10.9	72	1.32	.2	2	89
136	GB636	4736.040	1444.690	>	>	60	34	472	18	10>	10>	.42	2.60	1432	1>	2.08	91	>	.063	18.5	134	2.55	.4	2	63
137	GB637	4735.300	1443.970	>	>	18	59	667	418	14	14	.29	5.24	1249	1>	1.87	191	>	.254	11.7	56	.95	.2	2	130
138	GB638	4735.450	1444.030	>	>	11	46	1247	88	10	10	.17	5.81	1186	1>	1.88	276	>	.116	21.0	57	1.09	.2	2	109
139	GB639	4735.260	1444.480	>	>	18	55	412	635	10>	10>	.40	4.71	1379	2	1.77	142	>	.494	18.1	53	.89	.2	2	149
140	GB640	4735.320	1444.600	>	>																				

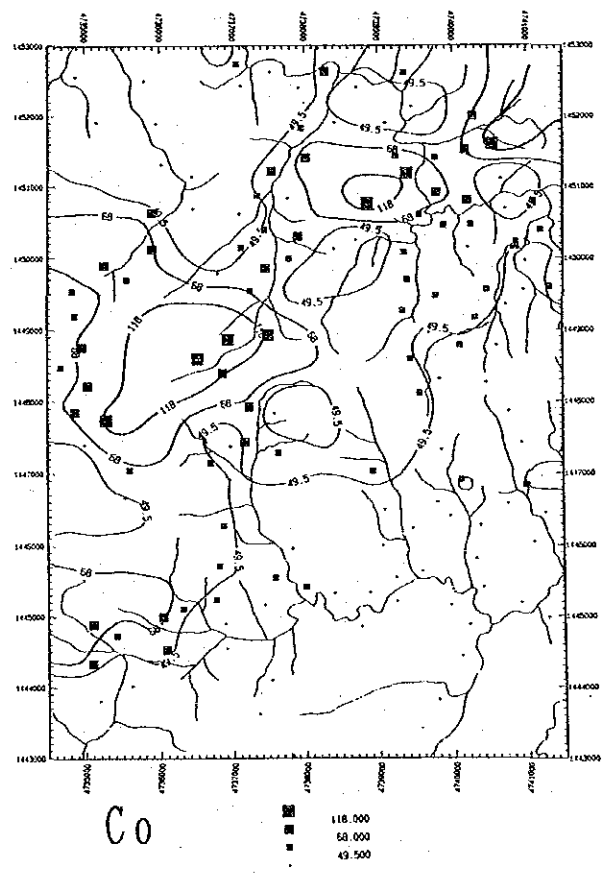
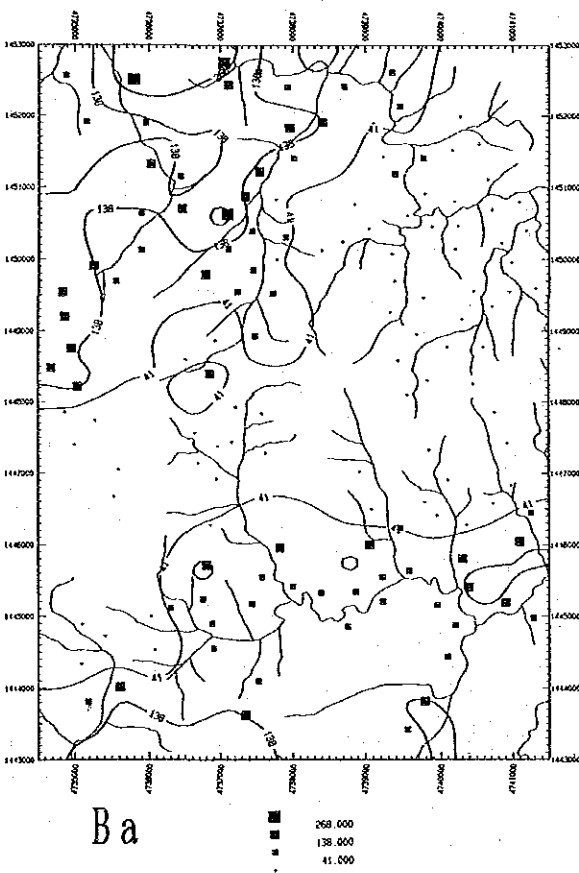
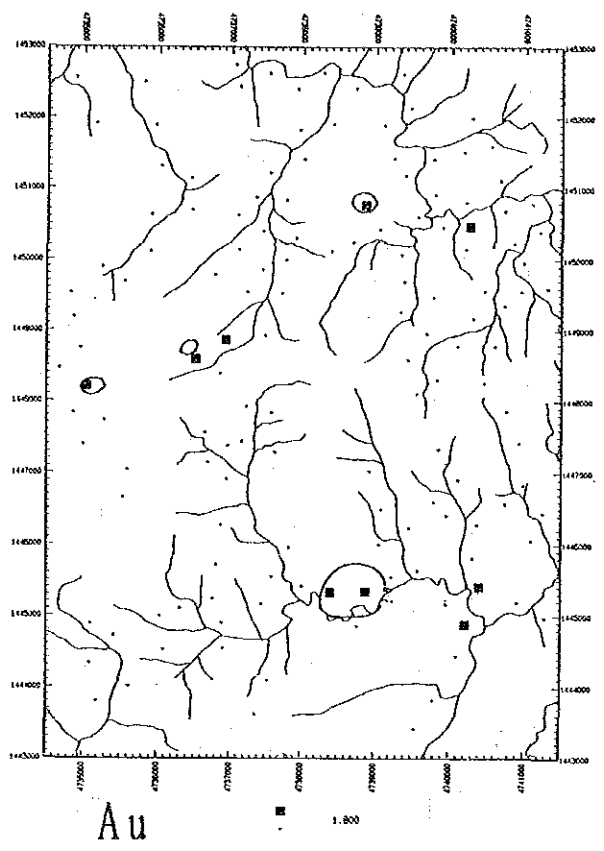
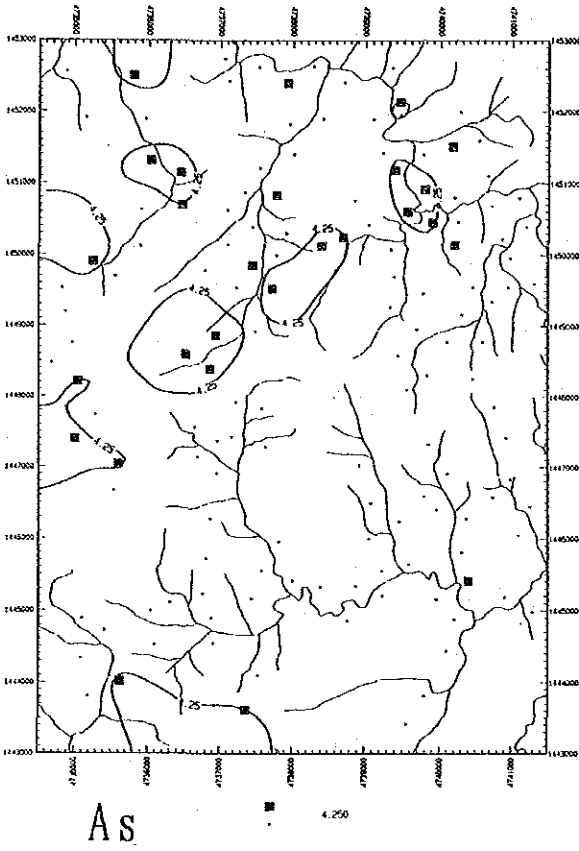


Appendix 24

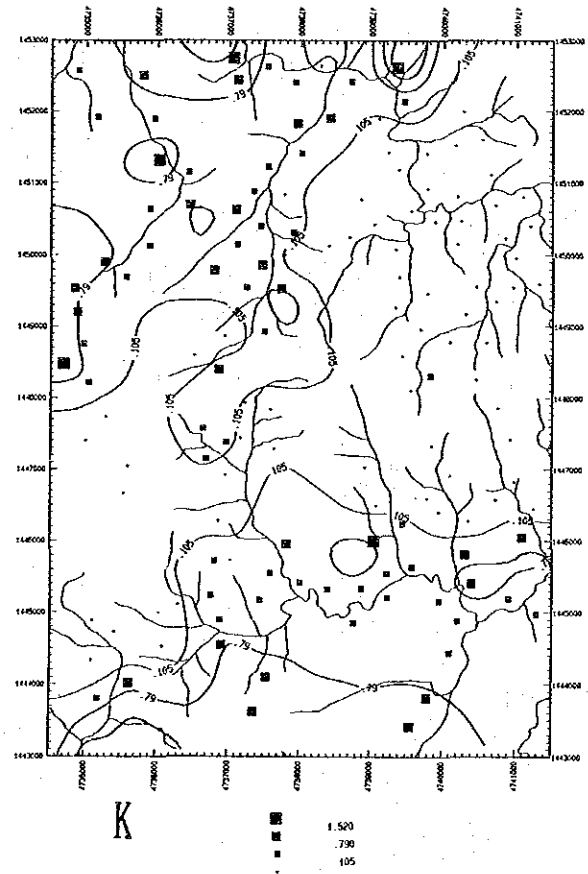
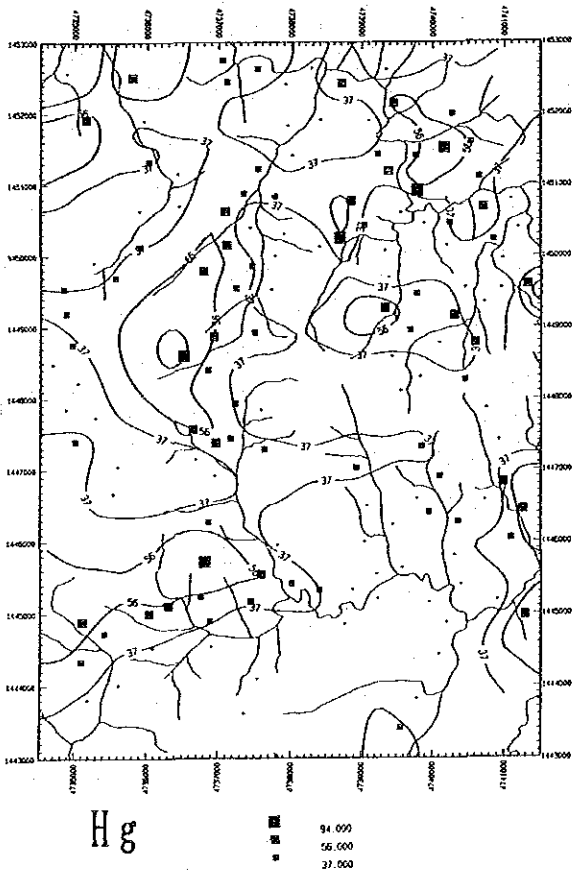
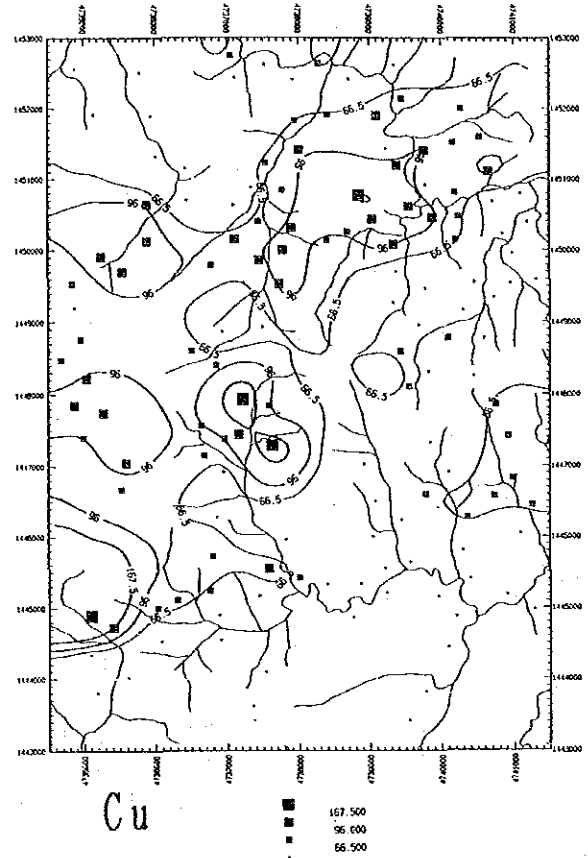
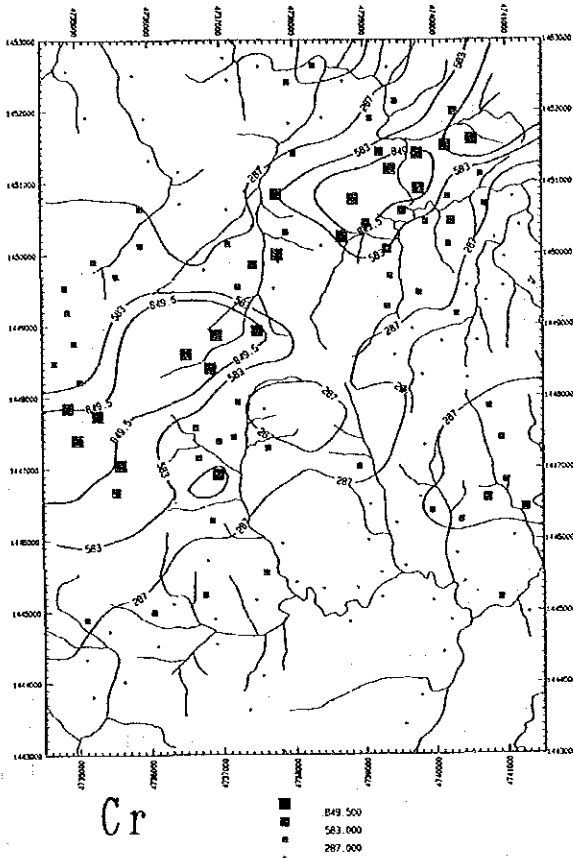
Distribution map of elements  
in Area B



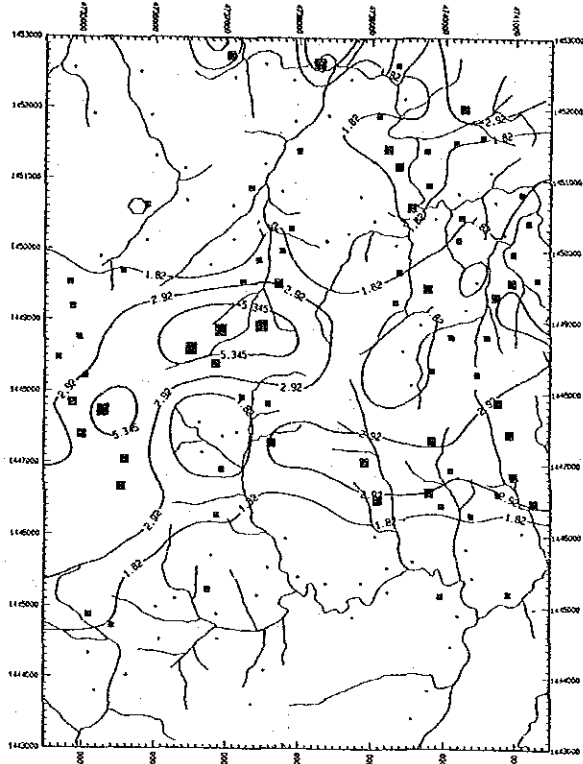
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Soil

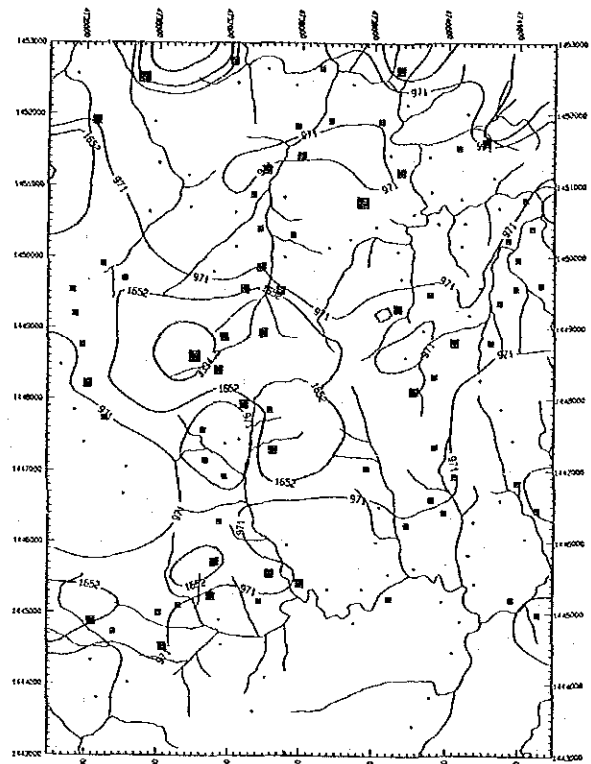


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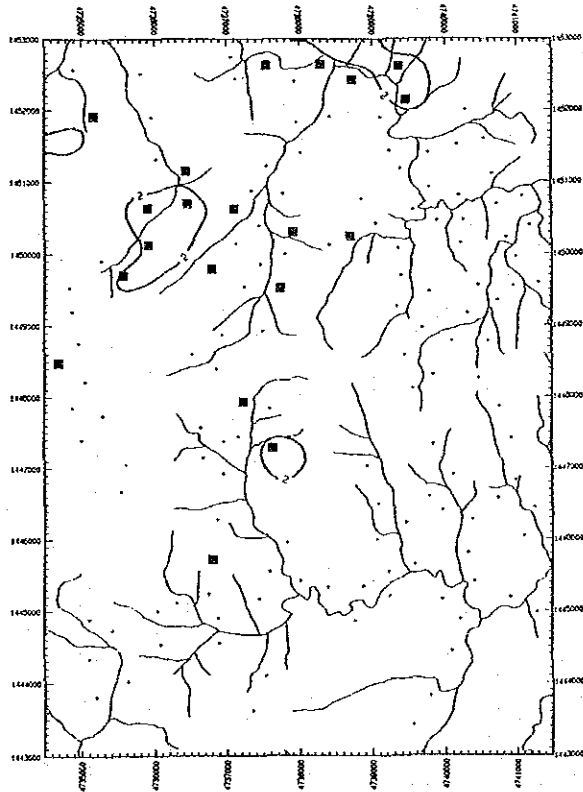
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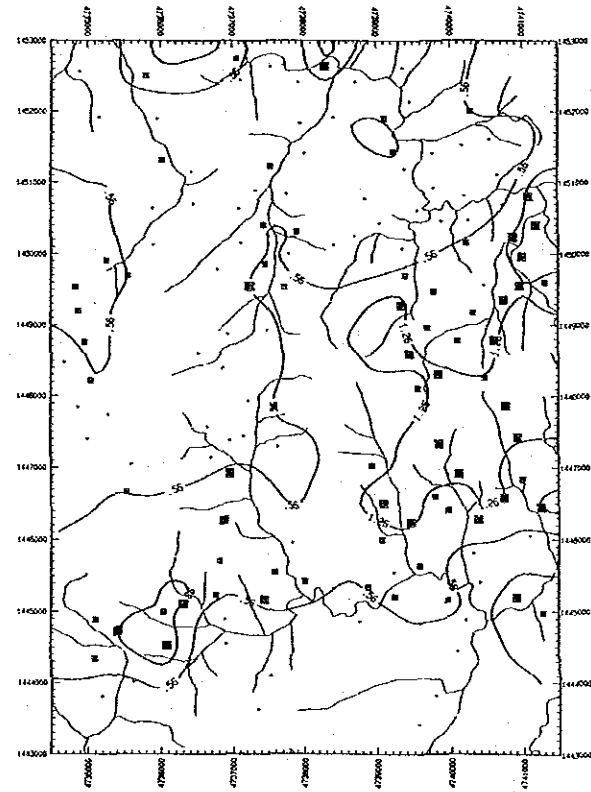
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Mo

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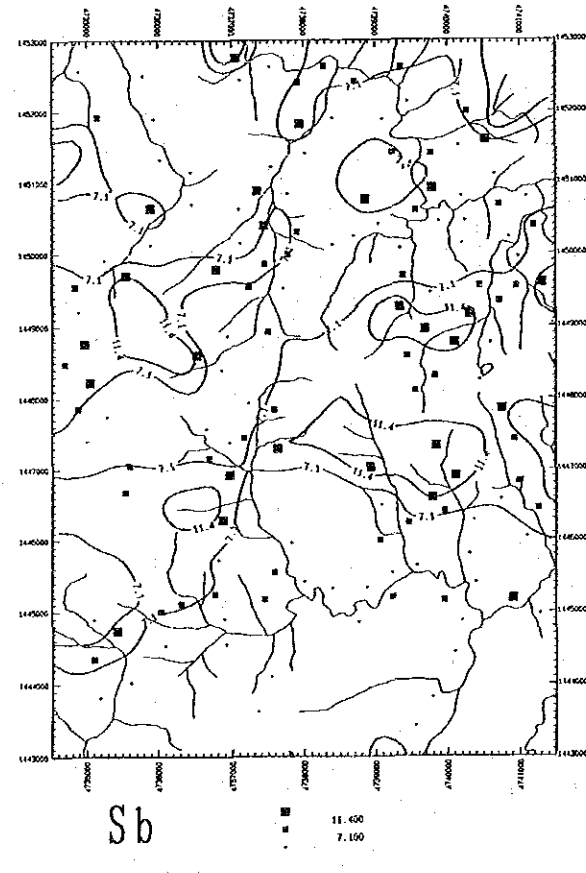
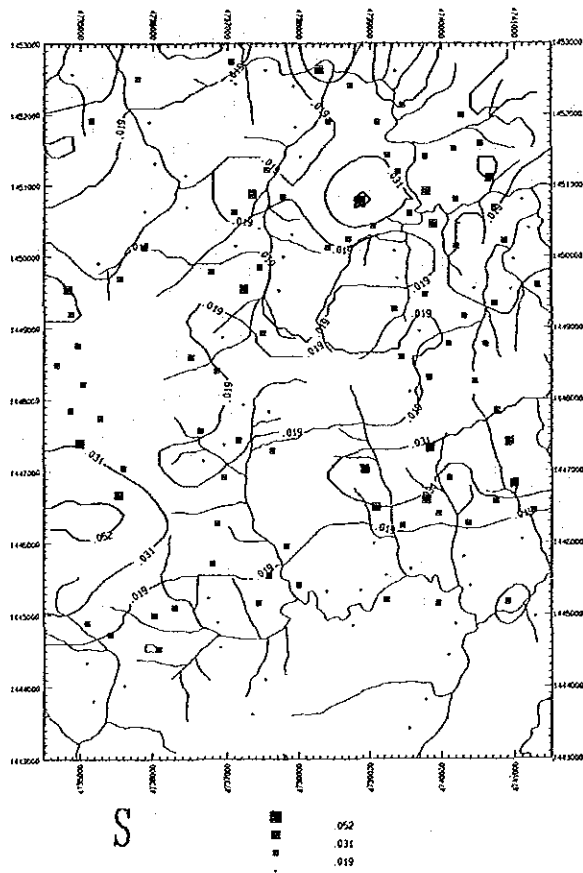
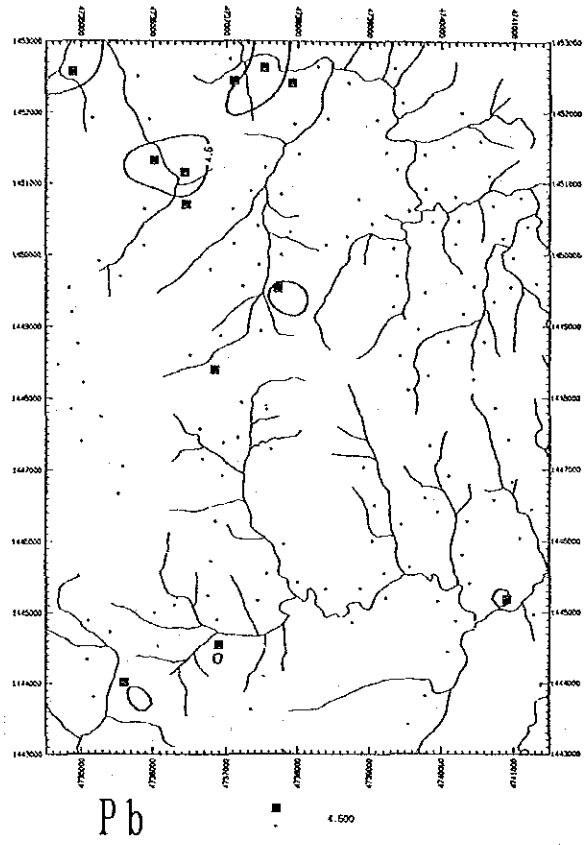
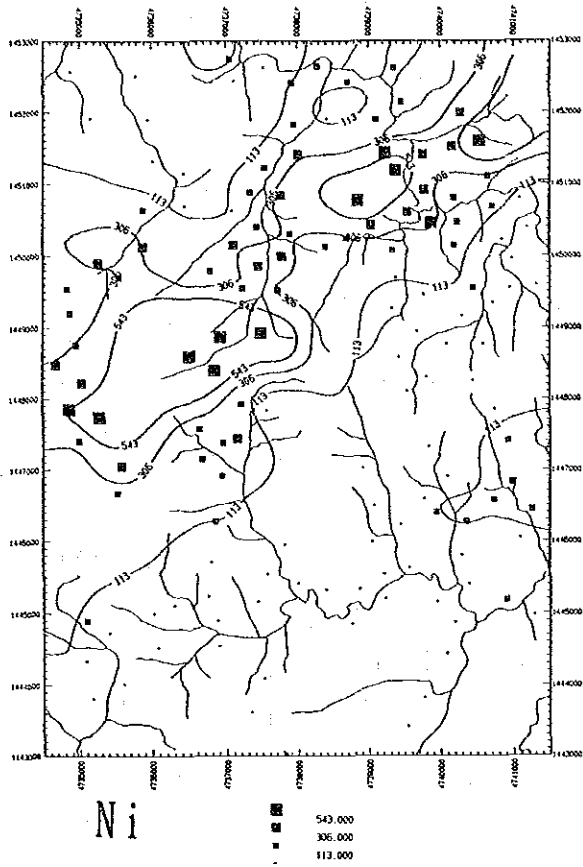


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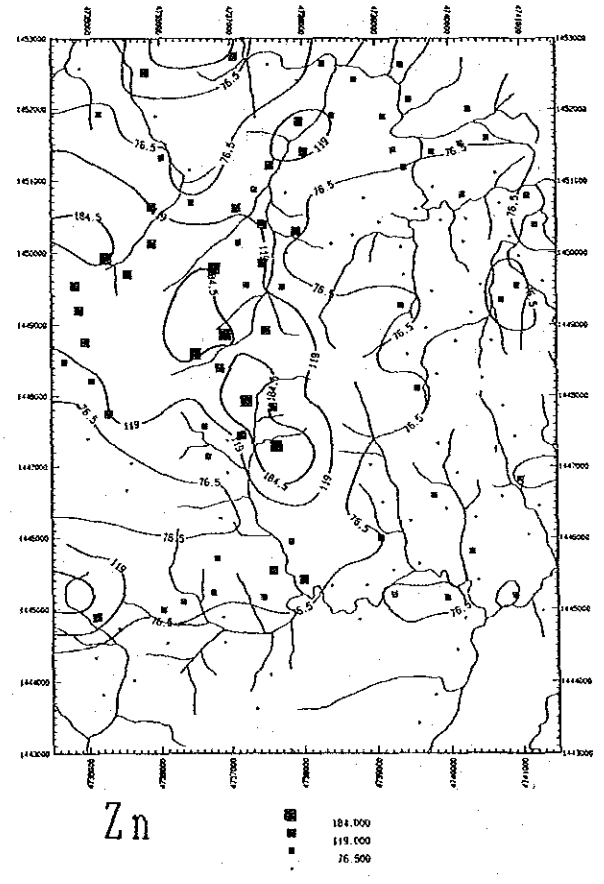
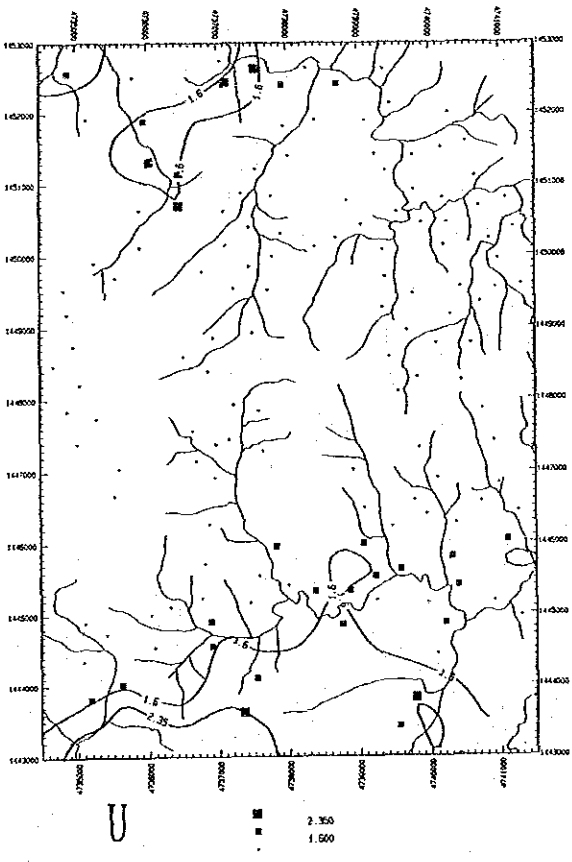
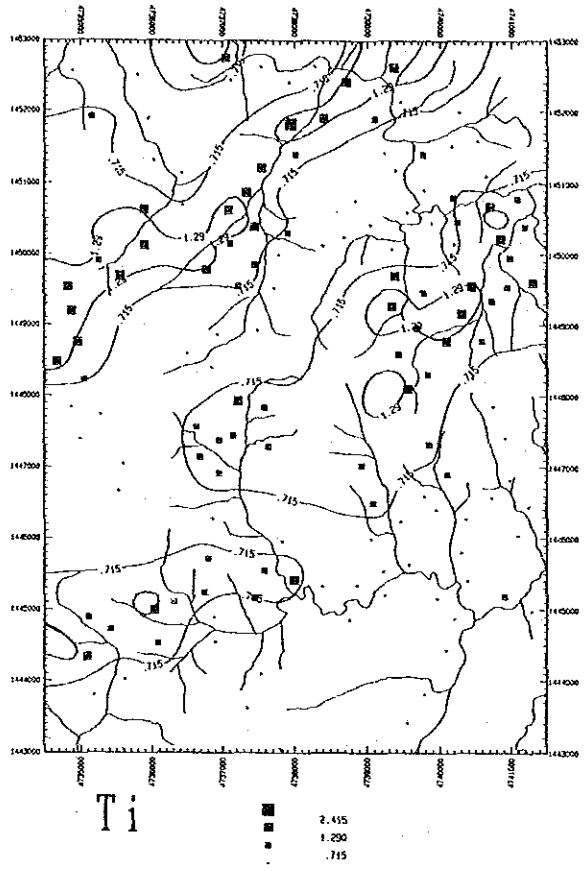
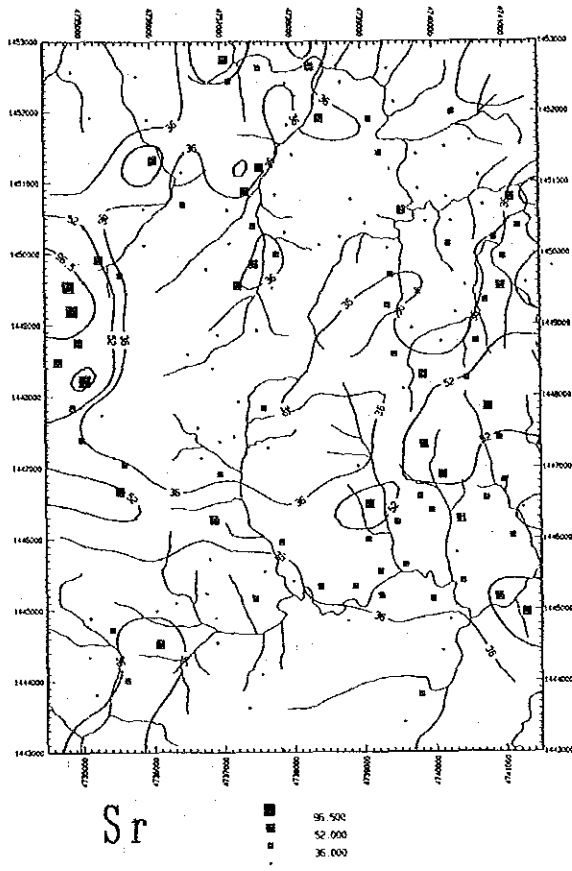
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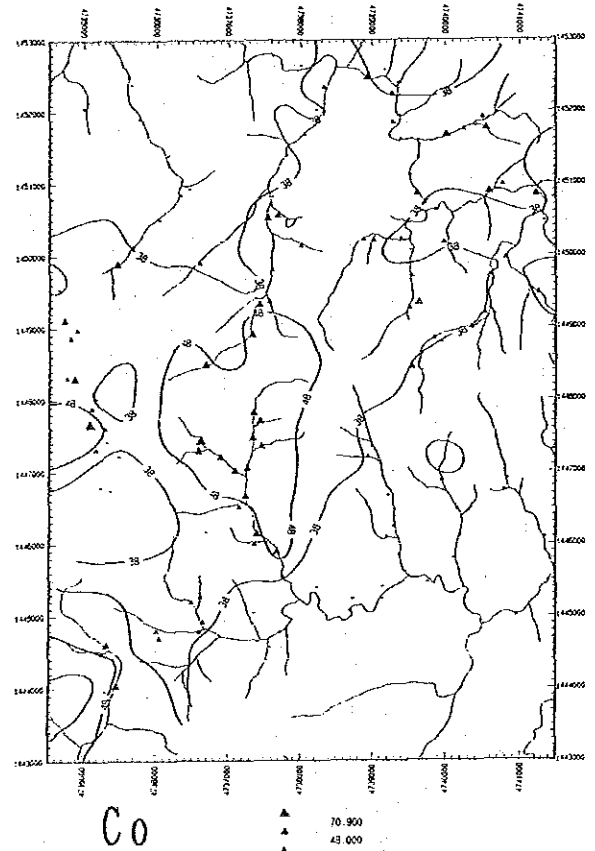
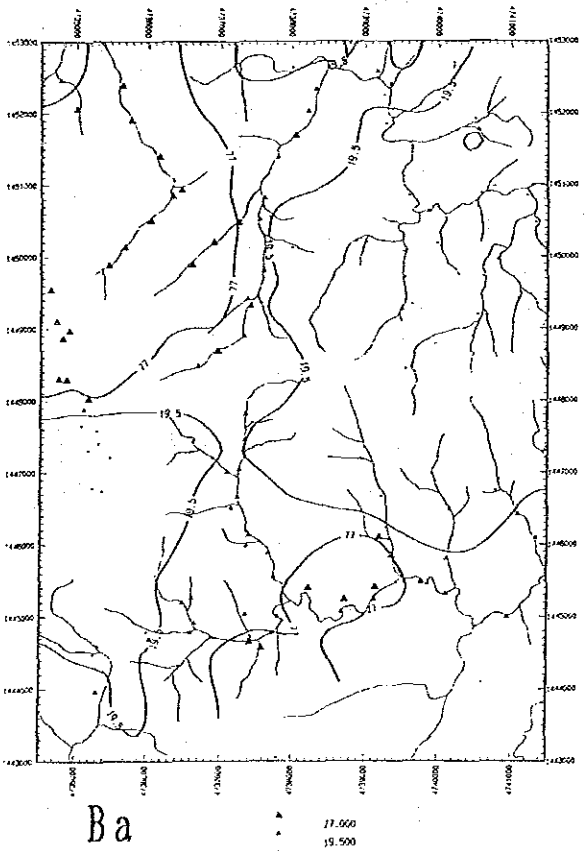
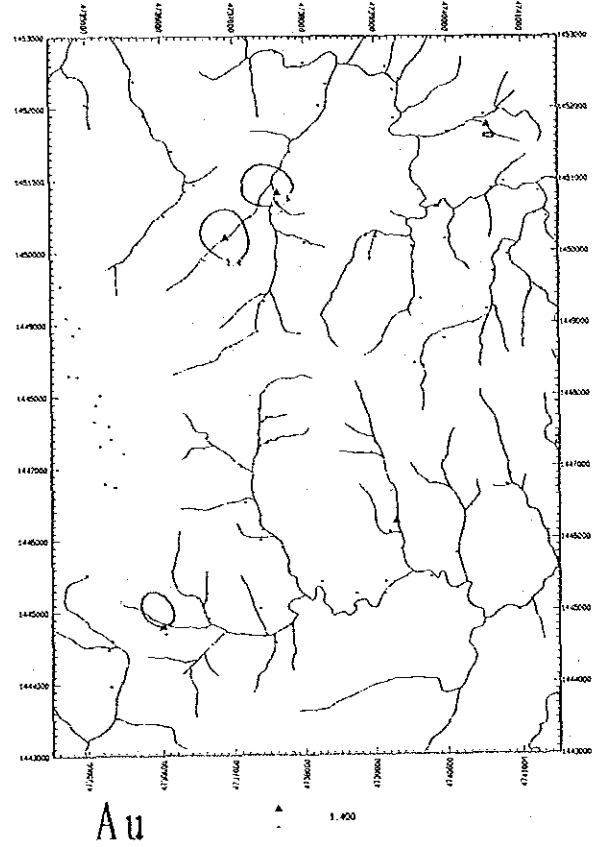
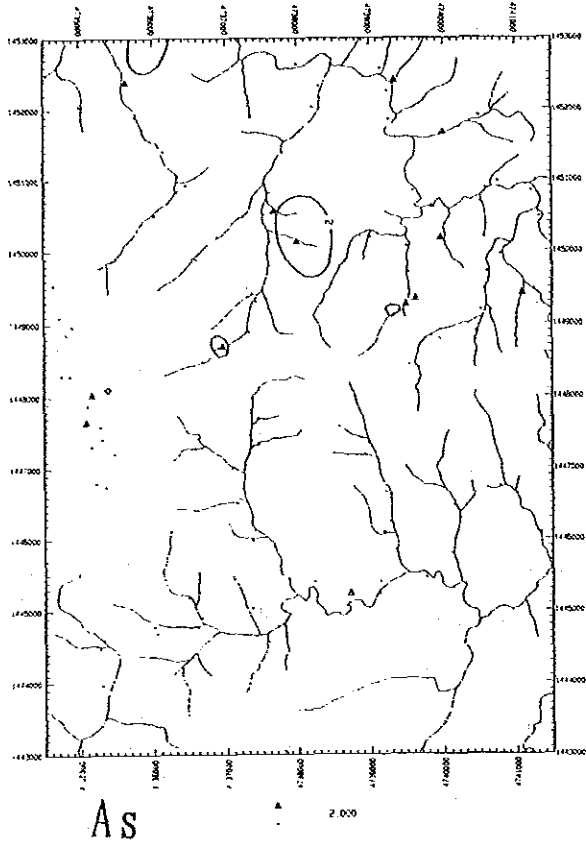
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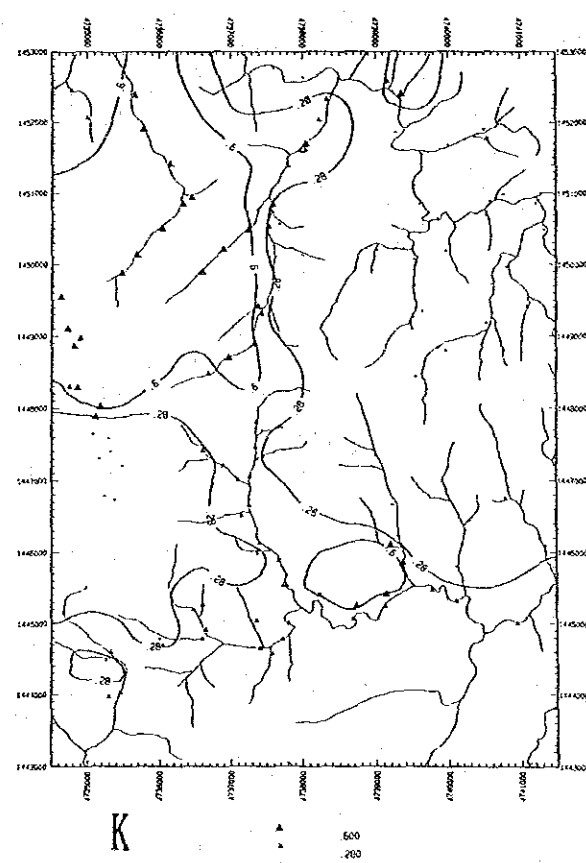
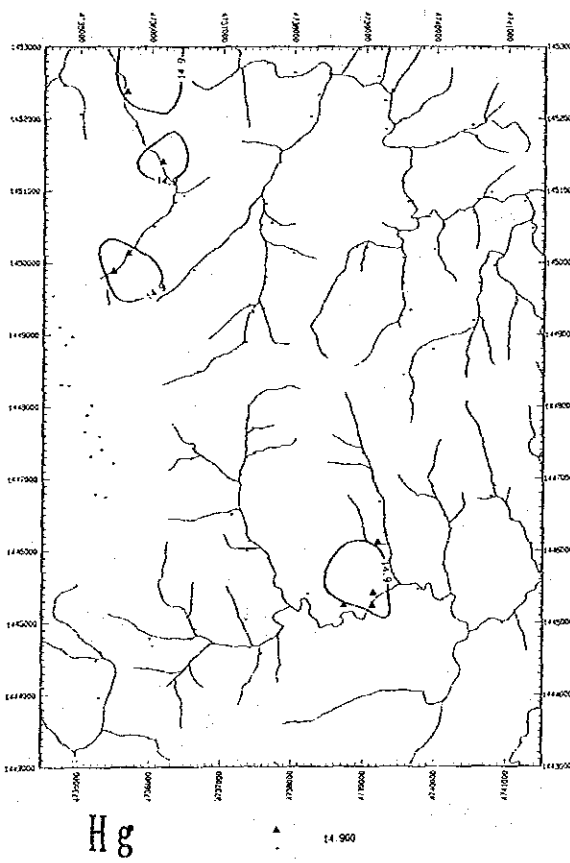
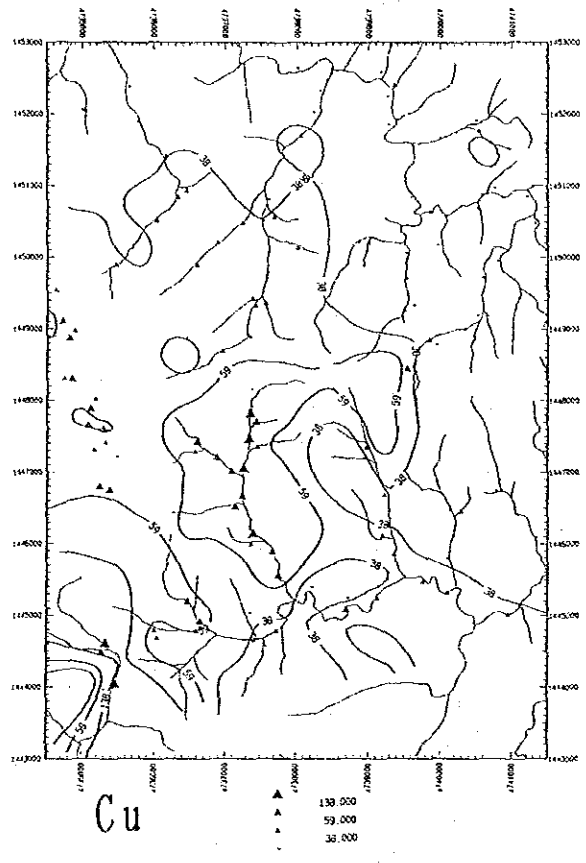
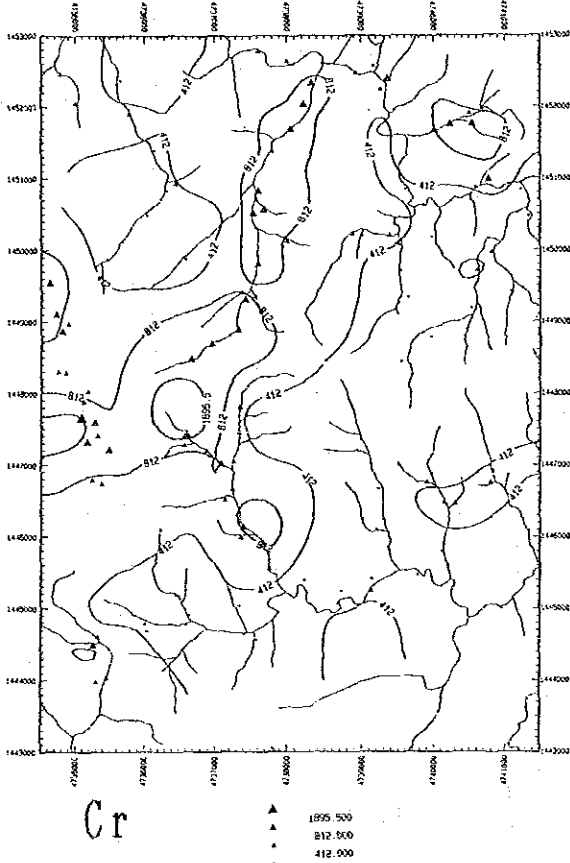
Soil



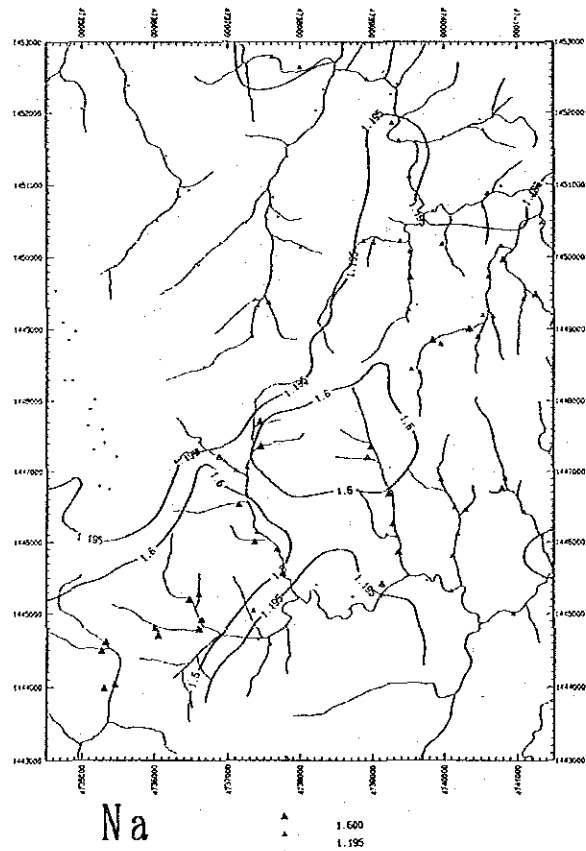
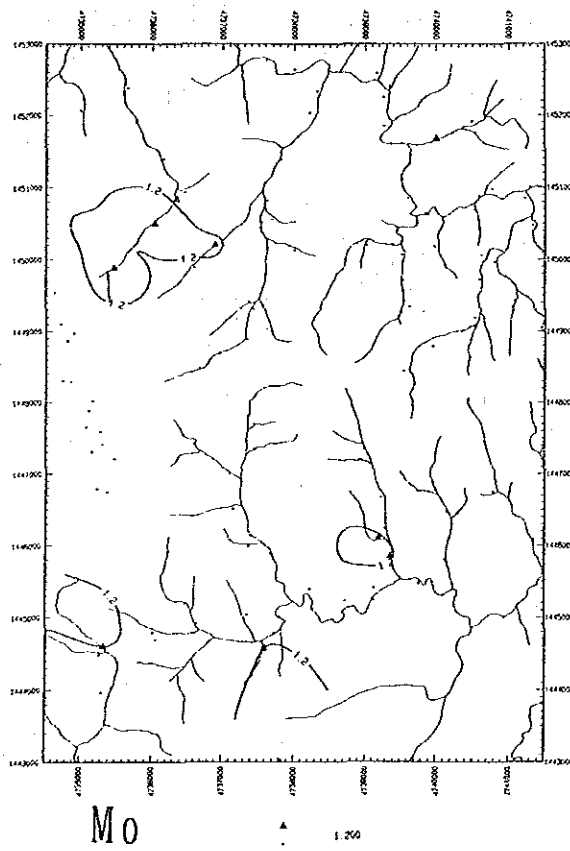
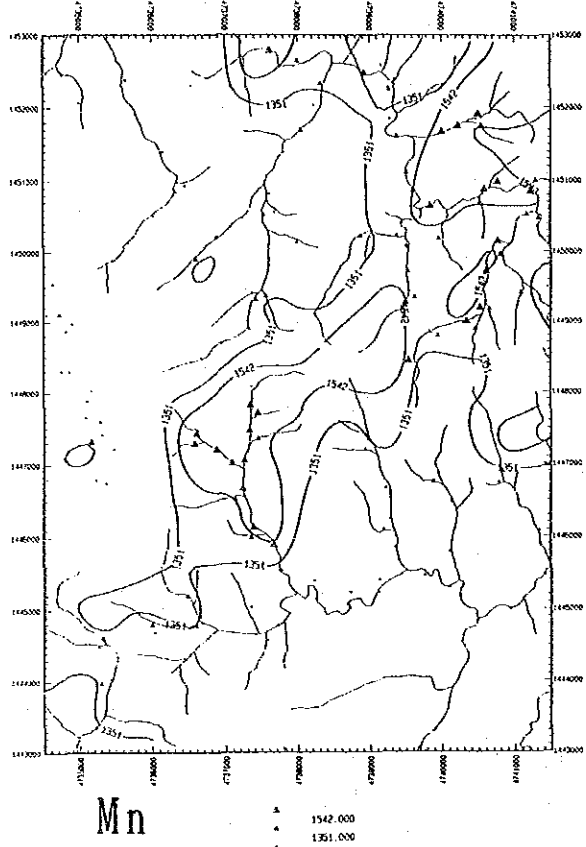
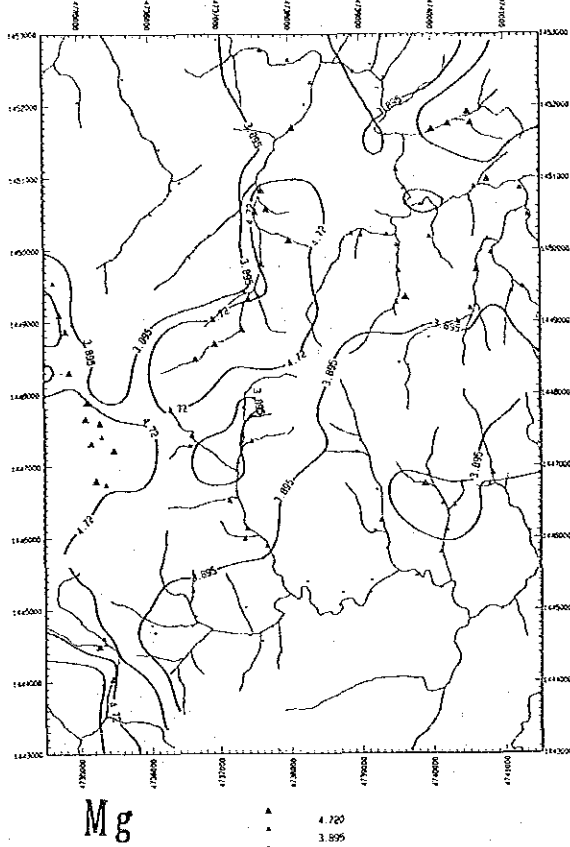
Stream sediments



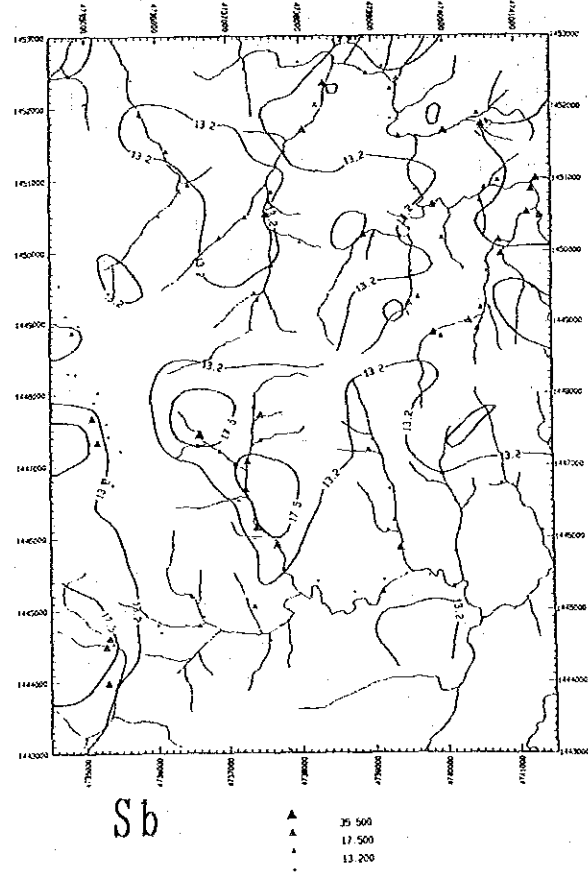
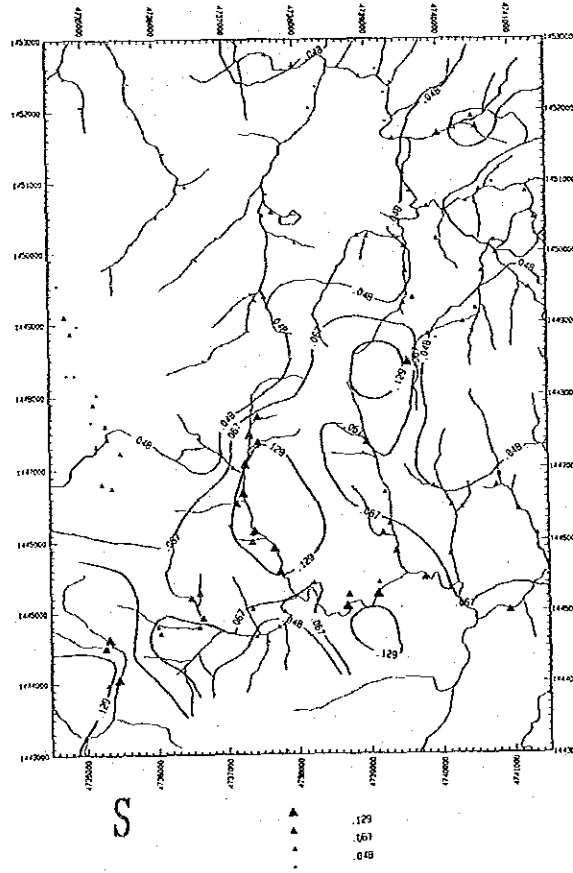
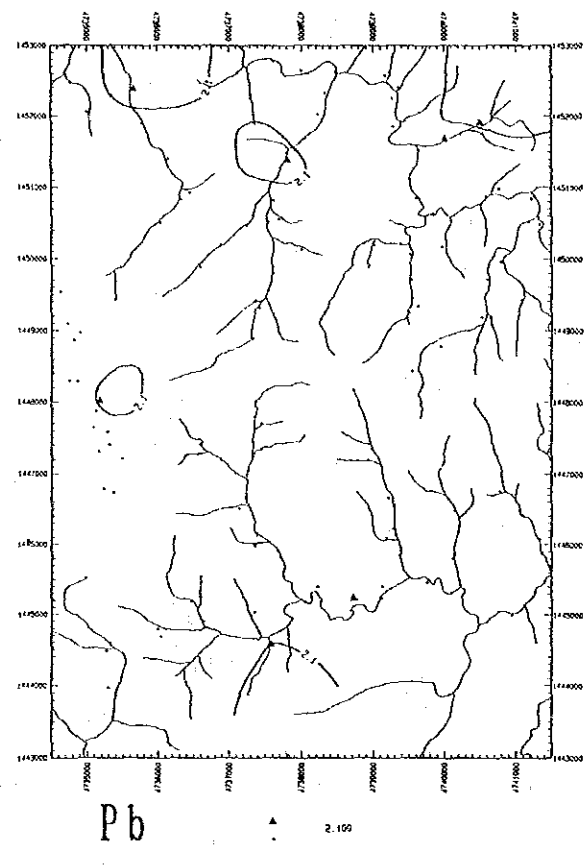
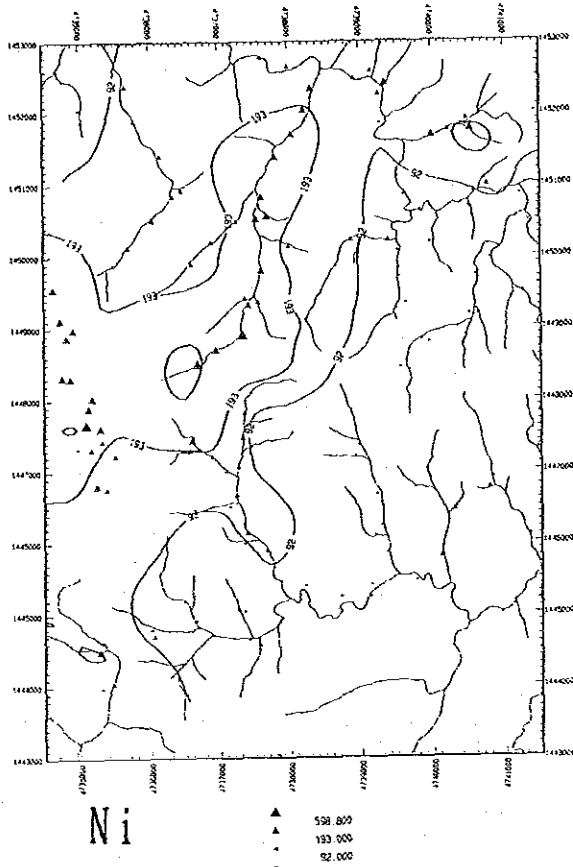
Stream sediments



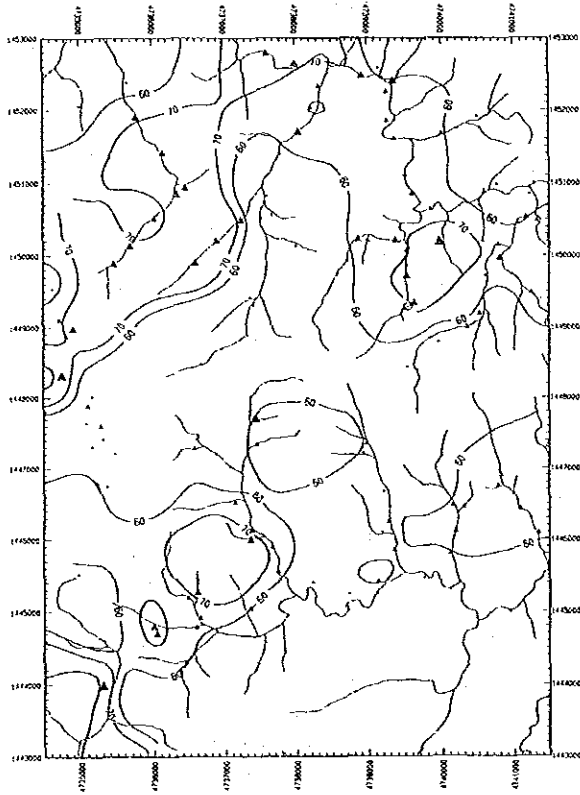
Stream sediments



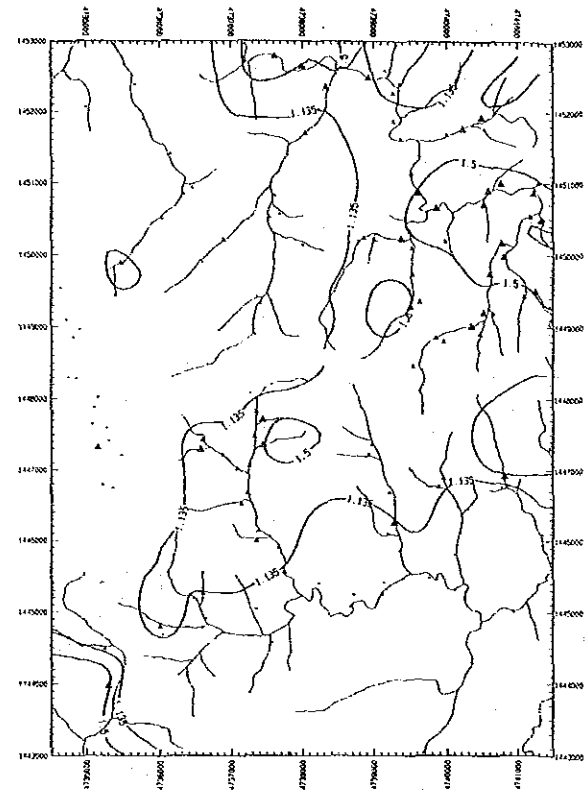
Stream sediments



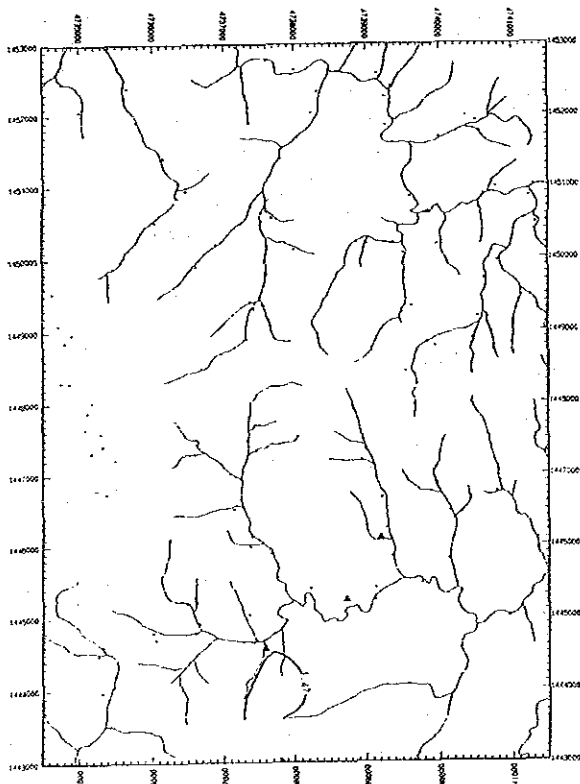
Stream sediments



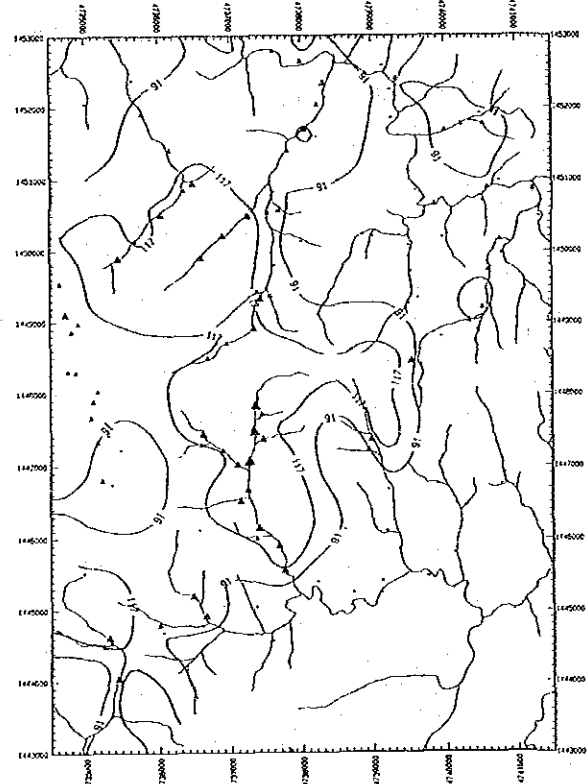
Sr  
▲ 95,200  
● 70,000  
○ 60,000



Ti  
▲ 1.50  
● 1.135



U  
▲ 1.470



Zn  
▲ 192,700  
● 117,000  
○ 91,000

Appendix 25

List of soil geochemical samples  
in Area C





Area: Upper Segama Area (Area C)

Ser. No.	Sample No.	Coordinates N E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
1	GC001	1434.55	Ulu Segama	serpentinite	Pr	30	B.G.	R	S	S	W	Primary forest
2	GC002	1434.18	Ulu Segama	amph./serp.	Pr	30	L.B.G.	F	C	S	W	Primary forest
3	GC003	1434.30	Ulu Segama	amph./serp.	Pr	30	L.G.B.	M	C	S	W	Primary forest
4	GC004	1434.57	Ulu Segama	amph./serp.	Pr	30	B.	F	S	S	W	Primary forest
5	GC005	1433.78	Ulu Segama	green schist	Gs	30	L.B.	R	C	S	W	Primary forest
6	GC006	1433.82	Ulu Segama	—	Pr	30	B.G.	F	C	S	W	Primary forest
7	GC007	1433.67	Ulu Segama	green schist	Gs	30	B.G.	M	C	S	W	Primary forest
8	GC008	1433.38	Ulu Segama	green schist	Gs	30	B.	R	C	S	W	Primary forest
9	GC009	1433.31	Ulu Segama	green schist	Gs	30	L.B.	F	C	S	W	Primary forest
10	GC010	1433.33	Ulu Segama	sandstone	P <sub>4</sub> Km	30	G.B.	F	S	S	W	Primary forest
11	GC011	1433.36	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.	F	C	M	W	Primary forest
12	GC012	1433.02	Ulu Segama	sandstone	P <sub>4</sub> Km	30	D.B.	R	C	M	W	Primary forest
13	GC013	1432.70	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.G.	F	C	M	W	Primary forest
14	GC014	1432.45	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.	F	C	M	W	Primary forest
15	GC015	1432.08	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.	R	C	M	W	Primary forest
16	GC016	1432.00	Ulu Segama	basaltic tuff	P <sub>4</sub> Km	30	R.B.	R	C	M	W	Primary forest
17	GC017	1431.48	Ulu Segama	basaltic tuff	P <sub>4</sub> Km	30	R.B.	R	C	M	W	Primary forest
18	GC018	1434.87	Ulu Segama	serpentinite	Pr	30	B.	R	C	M	W	Primary forest
19	GC019	1434.57	Ulu Segama	—	Pr	30	L.B.	M	S	M	W	Primary forest
20	GC020	1434.85	Ulu Segama	serpentinite	Pr	30	B.	F	C	M	W	Primary forest
21	GC021	1434.83	Ulu Segama	serpentinite	Pr	30	G.	M	S	S	W	Primary forest
22	GC022	1434.39	Ulu Segama	serpentinite	Pr	30	L.B.	R	C	S	W	Primary forest
23	GC023	1434.21	Ulu Segama	serpentinite	Pr	30	B.	R	C	S	W	Primary forest
24	GC024	1433.80	Ulu Segama	serpentinite	Pr	30	L.G.	F	C	S	W	Primary forest
25	GC025	1433.62	Ulu Segama	serpentinite	Pr	30	B.	R	C	S	W	Primary forest
26	GC026	1433.32	Ulu Segama	serpentinite	Pr	30	B.	F	C	S	W	Primary forest
27	GC027	1433.12	Ulu Segama	serpentinite	Pr	30	B.	F	C	S	W	Primary forest
28	GC028	1434.12	Ulu Segama	serpentinite	Pr	30	B.	F	C	S	W	Primary forest
29	GC029	1434.07	Ulu Segama	serpentinite	Pr	30	L.B.	F	C	S	W	Primary forest
30	GC030	1433.43	Ulu Segama	serpentinite	Pr	30	B.	F	C	S	W	Primary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)      \*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)      \*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
31	GC031	1433.69	4749.88	Ulu Segama	serpentinite	Pr	30	B.	F	S	S	W	Primary forest
32	GC032	1433.60	4749.45	Ulu Segama	green schist	Gs	30	L.B.	R	C	S	W	Primary forest
33	GC033	1433.98	4749.38	Ulu Segama	green schist	Gs	30	G.B.	R	C	S	W	Primary forest
34	GC034	1434.04	4748.85	Ulu Segama	green schist	Gs	30	B.	F	S	S	W	Primary forest
35	GC035	1434.33	4748.42	Ulu Segama	green schist	Gs	30	B.G.	F	C	S	W	Primary forest
36	GC036	1434.15	4748.00	Ulu Segama	green schist	Gs	30	B.G.	F	C	S	W	Primary forest
37	GC037	1434.67	4747.48	Ulu Segama	green schist	Gs	30	B.G.	R	C	S	W	Primary forest
38	GC038	1434.32	4747.32	Ulu Segama	green schist	Gs	30	B.	R	C	S	W	Primary forest
39	GC039	1434.52	4746.75	Ulu Segama	—	Gs	30	L.B.G.	F	C	S	W	Primary forest
40	GC040	1434.22	4746.43	Ulu Segama	—	Gs	30	L.B.	M	C	S	W	Primary forest
41	GC041	1433.25	4749.74	Ulu Segama	—	Gs	30	B.	F	S	S	W	Primary forest
42	GC042	1433.39	4749.12	Ulu Segama	s.s./sh.	Ps	30	Blu.G.	M	C	S	W	Primary forest
43	GC043	1433.15	4748.58	Ulu Segama	—	Gs	30	B.	R	C	S	W	Primary forest
44	GC044	1433.43	4748.17	Ulu Segama	—	Gs	30	L.B.G.	F	C	S	W	Primary forest
45	GC045	1432.95	4749.35	Ulu Segama	s.s./sh.	Ps	30	B.	R	C	S	W	Primary forest
46	GC046	1432.52	4749.53	Ulu Segama	amph./schist	Gs	30	B.	R	C	S	W	Primary forest
47	GC047	1431.96	4749.40	Ulu Segama	tonalite	I <sub>1</sub>	30	B.	F	S	S	W	Primary forest
48	GC048	1432.13	4749.76	Ulu Segama	tonalite	I <sub>1</sub>	30	B.	F	C	S	W	Primary forest
49	GC049	1431.65	4749.87	Ulu Segama	tonalite	Csba	30	B.	M	C	S	W	Primary forest
50	GC050	1431.97	4750.22	Ulu Segama	dolerite	Csba	30	L.B.	F	C	S	W	Primary forest
51	GC051	1432.18	4749.04	Ulu Segama	tonalite	I <sub>1</sub>	30	L.B.	F	C	S	W	Primary forest
52	GC052	1431.78	4749.00	Ulu Segama	amph./schist	Gs	30	B.	F	C	S	W	Primary forest
53	GC053	1431.68	4748.52	Ulu Segama	—	Pr	30	B.	R	C	S	W	Primary forest
54	GC054	1431.18	4748.92	Ulu Segama	—	P <sub>4</sub> Km	30	R.B.	R	C	S	W	Primary forest
55	GC055	1430.78	4749.00	Ulu Segama	—	P <sub>4</sub> Km	30	B.	R	C	S	W	Primary forest
56	GC056	1430.71	4748.53	Ulu Segama	—	P <sub>4</sub> Km	20	B.G.	R	C	S	W	Primary forest
57	GC057	1431.13	4748.47	Ulu Segama	—	Csba	30	B.	R	C	S	W	Primary forest
58	GC058	1432.17	4748.55	Ulu Segama	serpentinite	Pr	30	B.	R	C	S	W	Primary forest
59	GC059	1431.86	4748.18	Ulu Segama	serpentinite	Pr	30	R.B.	F	C	S	W	Primary forest
60	GC060	1432.35	4748.10	Ulu Segama	serpentinite	Pr	30	L.B.	R	C	S	W	Primary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)

\*4Humidity: Dry (D), Wet (W)

## Area: Upper Segama Area (Area C)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegetation
		N	E										
61	GC061	1432.68	4748.00	Ulu Segama	serpentinite	Pr	30	L.B.	M	C	S	W	Primary forest
62	GC062	1432.44	4747.60	Ulu Segama	serpentinite	Pr	30	D.B.	R	S	S	W	Primary forest
63	GC063	1432.08	4747.62	Ulu Segama	serpentinite	Pr	30	B.	F	C	S	W	Primary forest
64	GC064	1431.77	4747.40	Ulu Segama	serpentinite	Pr	30	D.B.	R	C	S	W	Primary forest
65	GC065	1431.46	4747.43	Ulu Segama	serpentinite	Pr	30	B.	F	C	S	W	Primary forest
66	GC066	1432.10	4746.97	Ulu Segama	serpentinite	Pr	30	B.G.	F	C	S	W	Primary forest
67	GC067	1432.49	4746.63	Ulu Segama	grn.sch./serp.	Gs	30	B.G.	R	C	S	W	Primary forest
68	GC068	1432.07	4746.32	Ulu Segama	amphibolite	Gs	30	D.B.	F	C	S	W	Primary forest
69	GC069	1432.34	4745.78	Ulu Segama	green schist	Gs	30	L.G.B.	F	S	S	W	Primary forest
70	GC070	1432.52	4746.16	Ulu Segama	green schist	Gs	30	B.	R	S	S	W	Primary forest
71	GC071	1432.98	4746.00	Ulu Segama	amphibolite	Gs	30	L.B.	R	C	M	W	Primary forest
72	GC072	1433.05	4746.47	Ulu Segama	schist	Gs	30	L.B.	R	C	M	W	Primary forest
73	GC073	1433.31	4746.12	Ulu Segama	schist	Gs	30	B.	R	C	M	W	Primary forest
74	GC074	1432.74	4745.72	Ulu Segama	green schist	Gs	30	B.	R	C	M	W	Primary forest
75	GC075	1433.22	4745.58	Ulu Segama	green schist	Gs	30	L.B.	F	S	S	W	Primary forest
76	GC076	1432.88	4745.03	Ulu Segama	green schist	Gs	30	B.	F	C	S	W	Primary forest
77	GC077	1433.13	4744.72	Ulu Segama	green schist	Gs	30	B.	F	S	S	W	Primary forest
78	GC078	1433.44	4745.10	Ulu Segama	green schist	Gs	30	B.	F	S	S	W	Primary forest
79	GC079	1433.60	4745.42	Ulu Segama	green schist	Gs	30	L.B.	F	S	S	W	Primary forest
80	GC080	1433.93	4745.27	Ulu Segama	green schist	Gs	30	L.B.G.	F	C	S	W	Primary forest
81	GC081	1434.49	4744.68	Ulu Segama	green schist	Gs	30	B	R	C	S	W	Primary forest
82	GC082	1433.88	4744.70	Ulu Segama	green schist	Gs	30	L.B.	F	C	M	W	Primary forest
83	GC083	1433.83	4744.27	Ulu Segama	green schist	Gs	40	G.B.	R	C	M	W	Primary forest
84	GC084	1434.25	4743.65	Ulu Segama	green schist	Gs	30	G.B.	F	S	M	W	Primary forest
85	GC085	1434.78	4743.34	Ulu Segama	green schist	Gs	20	D.B.	R	C	S	W	Primary forest
86	GC086	1434.62	4742.84	Ulu Segama	serpentinite	Pr	30	D.B.G.	R	C	S	W	Primary forest
87	GC087	1431.72	4745.90	Ulu Segama	green schist	Gs	30	B.	F	S	S	D	Primary forest
88	GC088	1431.40	4745.64	Ulu Segama	green schist	Gs	30	B.	R	S	S	D	Primary forest
89	GC089	1431.83	4745.23	Ulu Segama	green schist	Gs	30	L.R.B.	R	S	S	D	Primary forest
90	GC090	1431.75	4744.57	Ulu Segama	green schist	Gs	30	L.B.	F	S	S	D	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*2Grain size: Sandy (S), Clayey (C)

\*3Topography: Steep (S), Moderate (M), Flat (F)

\*4Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
91	GC091	1431.20	4746.10	Ulu Segama	green schist	Gs	30	L.B.	R	S	S	W	Primary forest
92	GC092	1430.82	4745.95	Ulu Segama	green schist	Gs	30	L.B.	F	S	S	D	Primary forest
93	GC093	1430.74	4746.56	Ulu Segama	—	Gb	30	L.B.	F	S	S	W	Primary forest
94	GC094	1430.54	4746.13	Ulu Segama	green schist	Gs	30	L.B.	F	S	S	W	Primary forest
95	GC095	1430.29	4746.32	Ulu Segama	—	Pr	30	L.B.	F	S	S	D	Secondary forest
96	GC096	1430.20	4746.61	Ulu Segama	basalt	Csba	40	L.B.	R	S	M	W	Secondary forest
97	GC097	1430.00	4747.08	Ulu Segama	shale	P <sub>4</sub> Km	30	B.	F	C	M	W	Secondary forest
98	GC098	1429.98	4747.40	Ulu Segama	sandstone	P <sub>4</sub> Km	30	R.B.	R	C	M	W	Secondary forest
99	GC099	1430.40	4747.25	Ulu Segama	sandstone	P <sub>4</sub> Km	40	L.B.	R	S	M	W	Secondary forest
100	GC100	1429.72	4746.50	Ulu Segama	—	P <sub>4</sub> Km	30	L.B.	R	S	S	W	Primary forest
101	GC101	1429.58	4746.18	Ulu Segama	—	P <sub>4</sub> Km	40	L.R.B.	R	S	S	W	Secondary forest
102	GC102	1429.21	4746.40	Ulu Segama	sandstone	P <sub>4</sub> Km	30	L.R.B.	R	S	M	D	Secondary forest
103	GC103	1429.28	4746.88	Ulu Segama	sandstone	P <sub>4</sub> Km	40	L.B.	M	C	M	W	Secondary forest
104	GC104	1428.63	4747.17	Ulu Segama	sandstone	P <sub>4</sub> Km	40	B.	R	C	M	W	Secondary forest
105	GC105	1428.87	4747.69	Ulu Segama	sandstone	P <sub>4</sub> Km	30	L.B.	R	S	M	D	Secondary forest
106	GC106	1428.55	4747.82	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.	R	S	M	D	Secondary forest
107	GC107	1428.22	4747.25	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.	R	C	M	W	Secondary forest
108	GC108	1429.98	4746.20	Ulu Segama	basalt	Csba	30	D.B.	F	C	M	W	Secondary forest
109	GC109	1430.23	4745.95	Ulu Segama	—	Csba	40	L.B.	F	C	M	W	Secondary forest
110	GC110	1430.09	4745.42	Ulu Segama	—	Csba	40	L.R.B.	R	C	S	W	Secondary forest
111	GC111	1430.44	4745.17	Ulu Segama	—	Gb	30	L.B.	M	C	M	W	Secondary forest
112	GC112	1429.59	4745.80	Ulu Segama	basalt	Csba	30	L.B.	F	C	M	W	Secondary forest
113	GC113	1429.31	4745.61	Ulu Segama	basalt	Csba	40	R.B.	R	C	M	W	Secondary forest
114	GC114	1428.87	4745.60	Ulu Segama	sandstone	P <sub>4</sub> Km	40	L.B.	R	C	S	W	Secondary forest
115	GC115	1428.78	4746.05	Ulu Segama	basalt	P <sub>4</sub> Km	40	D.R.B.	R	S	M	W	Primary forest
116	GC116	1429.55	4745.32	Ulu Segama	basalt	Csba	40	R.B.	F	S	M	W	Secondary forest
117	GC117	1428.66	4745.22	Ulu Segama	basalt	P <sub>4</sub> Km	30	L.B.	F	S	M	W	Secondary forest
118	GC118	1429.10	4745.00	Ulu Segama	basalt	Csba	30	L.B.	F	S	M	W	Secondary forest
119	GC119	1429.41	4744.77	Ulu Segama	dolerite	Csba	30	L.B.	F	S	S	D	Primary forest
120	GC120	1429.35	4744.12	Ulu Segama	basalt	Csba	30	D.B.	M	C	S	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*\*Grain size: Sandy (S), Clayey (C)

\*\*Topography: Steep (S), Moderate (M), Flat (F)

\*\*Humidity: Dry (D), Wet (W)

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
121	GC121	1428.76	4744.45	Ulu Segama	dolerite	Csba	30	L.B.	F	S	S	W	Primary forest
122	GC122	1430.06	4744.10	Ulu Segama	dolerite	Csba	40	R.B.	F	C	M	W	Primary forest
123	GC123	1430.36	4744.38	Ulu Segama	---	Csba	40	L.G.B.	F	S	M	W	Primary forest
124	GC124	1430.72	4744.05	Ulu Segama	dolerite	Csba	30	L.B.	R	C	M	W	Secondary forest
125	GC125	1428.75	4743.56	Ulu Segama	dolerite	Csba	40	D.R.B.	F	C	S	W	Secondary forest
126	GC126	1430.46	4743.74	Ulu Segama	basalt	Csba	40	L.B.	R	C	M	W	Secondary forest
127	GC127	1430.95	4743.59	Ulu Segama	---	Gb	30	L.B.	R	S	M	W	Secondary forest
128	GC128	1431.16	4743.97	Ulu Segama	---	Gb	30	L.Y.B.	F	C	M	W	Secondary forest
129	GC129	1430.36	4743.27	Ulu Segama	---	Gb	30	L.R.B.	F	C	M	W	Secondary forest
130	GC130	1430.85	4743.28	Ulu Segama	---	Gb	30	L.B.	R	C	M	W	Secondary forest
131	GC131	1430.21	4742.35	Ulu Segama	sandstone	P <sub>4</sub> Km	40	L.B.	R	S	M	W	Secondary forest
132	GC132	1430.61	4742.69	Ulu Segama	sandstone	P <sub>4</sub> Km	40	B.	F	S	M	W	Secondary forest
133	GC133	1430.95	4742.30	Ulu Segama	sheared w/py	P <sub>4</sub> Km	30	B.	M	S	S	W	Primary forest
134	GC134	1431.38	4742.29	Ulu Segama	sandstone	P <sub>4</sub> Km	30	L.G.B.	F	S	M	W	Primary forest
135	GC135	1428.71	4744.20	Ulu Segama	---	Csba	40	L.B.	M	C	M	W	Secondary forest
136	GC136	1428.88	4743.82	Ulu Segama	sandstone	P <sub>4</sub> Km	40	L.R.B.	R	S	S	W	Secondary forest
137	GC137	1428.15	4743.33	Ulu Segama	sandstone	P <sub>4</sub> Km	30	L.B.	R	S	M	W	Secondary forest
138	GC138	1428.55	4743.07	Ulu Segama	sandstone	P <sub>4</sub> Km	30	L.B.	R	S	M	W	Secondary forest
139	GC139	1428.80	4742.63	Ulu Segama	sandstone	P <sub>4</sub> Km	30	B.	R	S	F	W	Secondary forest
140	GC140	1428.55	4742.30	Ulu Segama	sandstone	P <sub>4</sub> Km	30	L.R.B.	R	C	M	W	Secondary forest

\*1Gravel: Many (M), Few (F), Rare or none (R)

\*\*Topography: Steep (S), Moderate (M), Flat (F)

\*\*2Grain size: Sandy (S), Clayey (C)

\*\*4Humidity: Dry (D), Wet (W)

