Appendix 26

Analytical results of soil
geochemical samples in Area C

List of Geochemical Analysis(1)

Ser. No.	Sample No.	Location(km) X-coord	Location(km) Y-coord	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
1	GC001	4752.300	1434.550	1>	1>	102	25	202	31	12	.38	1.76	671	1>	.95	106	2>	.022	13.9	82	.47	.8	2>	62
2	GC002	4752.530	1434.180	1>	1>	49	30	54	125	16	.36	1.56	983	1>	2.01	51	2>	.025	7.2	167	.54	.2	2>	118
3	GC003	4752.220	1434.300	1>	1>	56	34	317	57	10>	.27	3.80	787	1>	.87	157	2>	.029	11.8	92	.31	.6	2>	75
4	GC004	4752.780	1434.570	1>	1>	17	35	90	73	22	.05	2.48	790	1>	2.13	34	2>	.021	5.2	108	.55	.2	2>	94
5	GC005	4752.250	1433.780	1>	1	90	34	429	53	22	.30	3.16	941	1>	.78	277	2>	.021	10.3	83	.38	.4	2>	73
6	GC006	4751.780	1433.820	1>	1>	279	41	258	64	32	.80	3.11	1064	1>	1.60	155	2>	.030	9.8	152	.53	.6	2>	91
7	GC007	4752.600	1433.670	1>	1>	83	53	377	66	32	.07	4.05	1396	1>	1.36	111	2>	.035	8.2	113	.24	.2	2>	84
8	GC008	4752.350	1433.380	1>	1>	86	28	136	27	43	.28	.73	1082	1>	.55	51	2>	.012	5.5	32	.48	1.6	2>	49
9	GC009	4752.060	1433.310	1>	1>	156	22	84	42	39	1.04	.65	1208	1>	.43	47	5	.007	2.0	28	.49	2.0	2>	84
10	GC010	4752.550	1433.330	1>	1>	336	9	55	12	94	.31	.27	1185	1>	.37	26	2>	.020	.2>	40	.29	1.8	2>	39
11	GC011	4752.980	1433.360	1>	1>	64	12	153	25	36	.18	.36	129	1>	.14	48	2>	.007	5.2	13	.74	1.6	2>	43
12	GC012	4752.890	1433.020	1>	1>	93	15	196	23	15	.40	.67	241	1>	.44	71	2>	.008	4.8	30	.40	1.6	2>	43
13	GC013	4753.320	1432.700	1>	1>	97	23	247	40	28	.44	.67	272	1>	.63	107	2>	.009	2.3	38	.47	1.4	2>	62
14	GC014	4753.130	1432.450	1>	1>	89	12	162	18	19	.38	.42	5>	1>	.19	60	2>	.012	3.7	26	.36	1.8	2>	40
15	GC015	4752.970	1432.080	1>	2	131	4	160	17	41	.92	.41	14	1>	.17	66	2>	.014	.7	34	.27	2.4	2>	45
16	GC016	4753.580	1432.000	1>	1>	104	34	286	38	26	.43	1.99	992	1>	1.16	164	2>	.025	6.8	48	.45	.8	2>	68
17	GC017	4753.100	1431.480	1>	7	86	7	131	23	39	.32	.41	5>	1	.18	43	2>	.012	.6	19	.36	1.6	2>	38
18	GC018	4751.870	1434.870	1>	1>	76	34	306	44	19	.29	2.26	794	1>	1.45	130	2>	.023	9.2	94	.52	1.0	2>	71
19	GC019	4751.430	1434.570	1>	18	58	29	319	41	15	.27	2.49	682	1>	1.09	114	2>	.022	2.5	89	.33	.6	2>	65
20	GC020	4751.180	1434.850	1>	14	100	26	292	176	25	.45	2.26	594	1>	1.16	126	2>	.043	4.9	87	.51	.8	2>	132
21	GC021	4750.700	1434.830	1>	18	67	24	303	47	20	.32	2.54	825	1>	1.23	111	2>	.023	8.7	117	.33	.6	2>	65
22	GC022	4750.700	1434.390	1>	1>	86	29	272	42	23	.25	2.19	943	1>	1.77	126	2>	.022	10.7	108	.57	.8	2>	79
23	GC023	4750.430	1434.210	1>	1>	82	33	333	50	14	.24	1.73	817	1>	1.33	155	2>	.018	6.2	87	.52	.8	2>	72
24	GC024	4750.720	1433.800	1>	5	61	26	200	75	10	.29	2.08	630	1>	1.89	65	2>	.025	15.2	165	.34	.2	2>	78
25	GC025	4750.470	1433.620	1>	1>	97	37	489	70	15	.27	2.03	985	1>	1.42	209	2>	.019	10.6	81	.61	.6	2>	82
26	GC026	4750.650	1433.320	1>	3	26	39	328	76	35	.18	3.11	913	1>	1.55	109	2>	.032	9.1	88	.28	.2	2>	80
27	GC027	4750.150	1433.120	1>	1	54	43	469	65	37	.20	3.88	917	1>	1.47	162	2>	.035	4.7	100	.26	.2>	2>	87
28	GC028	4750.200	1434.120	1>	1>	52	39	515	92	14	.21	3.71	1041	1>	1.23	294	2>	.026	5.4	125	.31	.2	2>	86
29	GC029	4749.850	1434.070	1>	2	49	37	528	62	36	.19	4.01	1061	1>	1.18	247	2>	.026	10.0	153	.29	.2	2>	81
30	GC030	4750.180	1433.430	1>	4	76	34	275	42	36	.27	1.96	922	1>	1.70	128	2>	.023	9.5	103	.62	.6	3	75
31	GC031	4749.880	1433.690	1>	1>	75	33	267	51	15	.31	2.31	836	1>	1.30	174	2>	.022	7.7	110	.52	.6	2>	83
32	GC032	4749.450	1433.600	1>	2	103	41	380	62	20	.34	2.80	608	1>	1.70	155	2>	.025	5.0	128	.41	.2	2>	80
33	GC033	4749.380	1433.980	1>	1>	203	49	2816	63	28	.52	3.58	1140	1>	1.11	882	2>	.032	16.5	135	.44	.6	2>	100
34	GC034	4748.850	1434.040	1>	1>	74	47	284	77	37	.29	2.63	923	1>	1.81	120	2>	.027	14.8	115	.36	.2	2>	75
35	GC035	4748.420	1434.330	1>	1	26	30	508	73	32	.14	4.15	878	1>	1.12	137	2>	.035	5.8	81	.18	.2	2>	78
36	GC036	4748.000	1434.150	1>	1>	49	38	640	79	43	.23	5.43	945	1>	1.26	183	2>	.043	2.8	95	.20	.2	2>	88
37	GC037	4747.480	1434.670	1>	1>	40	26	390	54	18	.18	3.16	632	1>	.77	118	2>	.029	5.5	67	.25	.4	2>	71
38	GC038	4747.320	1434.320	1>	41	234	26	218	73	34	.46	1.68	1074	1>	.84	84	2>	.018	4.9	99	.64	1.0	2>	80
39	GC039	4746.750	1434.520	1>	1>	364	22	372	48	42	.83	2.17	858	1>	1.16	175	2>	.030	9.3	136	.57	1.0	2>	80
40	GC040	4746.430	1434.220	1>	1>	165	29	177	73	18	.36	1.98	864	1>	1.71	69	2>	.021	11.5	154	.48	.6	2>	78
41	GC041	4749.740	1433.250	1>	1>	83	30	273	58	23	.28	1.94	952	1>	1.47	131	2>	.021	8.5	91	.58	.6	2>	76
42	GC042	4749.120	1433.390	1>	1>	38	37	307	70	10>	.29	3.87	927	1>	2.13	95	2>	.034	5.5	198	.21	.2	2>	86
43	GC043	4748.580	1433.150	2	1>	50	37	374	74	29	.25	3.21	996	1>	1.36	103	2>	.029	10.6	133	.25	.2	2>	74
44	GC044	4748.170	1433.430	1>	2	30	33	338	62	22	.22	3.37	783	1>	1.84	91	2>	.035	8.5	131	.21	.2	2>	72
45	GC045	4749.350	1432.950	1>	1>	65	27	305	48	26	.22	1.73	677	1>	1.20	134	2>	.019	5.9	78	.45	.6	2>	67
46	GC046	4749.530	1432.520	1>	1>	216	41	290	54	42	.35	2.06	2010	1>	.85	214	2>	.018	6.6	81	.86	1.0	2>	98
47	GC047	4749.400	1431.960	1>	1	34	27	89	93	36	.04	1.13	873	1>	1.11	62	2>	.016	4.5	79	.38	.2	2>	70
48	GC048	4749.760	1432.130	1>	1>	66	28	169	63	80	.05	1.10	1069	1>	1.43	70	2>	.035	3.1	162	.78	.4	2>	68
49	GC049	4749.870	1431.650	1>	2	124	39	319	145	46	.21	2.46	1511	1>	1.37	149	2>	.036	10.6	173	.60	.4	2>	88
50	GC050	4750.220	1431.970	1>	3	107	33	172	76	134	.27	1.90	1481	1>	1.70	75	2>	.037	10.2	223	.68	.2	2>	97

List of Geochemical Analysis(2)

Ser. No.	Sample No.	Location(km) X-coord	Location(km) Y-coord	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
51	GC051	4749.040	1432.180	1>	1>	69	34	138	63	42	.15	2.31	859	1>	2.10	69	2>	.030	4.6	159	.42	.2	2>	76
52	GC052	4749.000	1431.780	1>	12	86	28	231	44	48	.31	1.83	940	1>	1.11	98	2>	.023	5.0	96	.63	1.2	2>	74
53	GC053	4748.520	1431.680	1>	4	160	17	171	49	57	.61	1.08	1048	1>	1.05	59	2>	.025	5.3	97	.58	.8	2>	83
54	GC054	4748.920	1431.180	12	1	69	40	173	85	58	.10	.61	1102	1>	.36	83	2>	.010	8.9	25	.93	.8	2>	108
55	GC055	4749.000	1430.780	3	2	91	39	264	63	80	.23	2.53	1476	1>	1.35	339	2>	.066	5.1	122	.63	.6	2>	259
56	GC056	4748.530	1430.710	1>	1>	129	21	156	30	45	.47	1.35	685	1	.58	73	2>	.048	5.4	74	.50	1.2	2>	68
57	GC057	4748.470	1431.130	7	1>	60	53	289	87	42	.09	2.77	1063	1>	1.32	197	2>	.026	12.0	151	.75	.2>	2>	101
58	GC058	4748.550	1432.170	1>	1>	73	37	292	49	71	.08	2.54	1451	1>	1.31	115	2>	.051	7.6	188	.76	.4	2>	82
59	GC059	4748.180	1431.860	1>	1>	72	60	836	28	45	.20	3.91	1041	1>	.98	531	2>	.019	9.2	71	.46	.8	2>	86
60	GC060	4748.100	1432.350	1>	5	68	40	230	48	64	.11	2.64	1452	1>	1.64	112	2>	.034	9.0	169	1.32	.2	2>	91
61	GC061	4748.000	1432.680	1>	1>	47	31	219	63	33	.25	3.12	744	1>	1.94	110	2>	.034	7.9	159	.37	.2	3	89
62	GC062	4747.600	1432.440	1>	1>	62	57	301	40	73	.09	2.92	1963	1>	1.95	169	2>	.048	9.1	143	1.14	.2	2>	91
63	GC063	4747.620	1432.080	1>	1>	48	49	530	58	31	.23	3.66	904	1>	1.71	413	2>	.023	2.0	160	.38	.2	2>	96
64	GC064	4747.400	1431.770	1>	3	96	31	298	42	28	.44	2.12	791	1>	1.28	166	2>	.020	9.4	95	.55	.8	2>	77
65	GC065	4747.430	1431.460	1>	1>	13	185	3683	28	40	.01	16.62	2124	1>	.13	2379	2>	.015	.2>	5	.19	.2	2>	187
66	GC066	4746.970	1432.100	1>	1>	83	70	1043	36	67	.11	5.44	1751	1>	1.42	686	2>	.031	13.1	85	1.03	.2	2>	123
67	GC067	4746.630	1432.490	1>	1>	102	81	1243	54	46	.21	5.06	1730	1>	1.25	676	2>	.038	12.9	147	.49	.4	2>	112
68	GC068	4746.320	1432.070	1>	2	77	26	194	58	25	.41	2.07	756	1>	1.37	81	2>	.024	10.0	103	.49	1.0	2>	89
69	GC069	4745.780	1432.340	1>	1>	25	30	93	49	37	.12	2.30	815	1>	2.47	47	2>	.040	6.8	179	.38	.2>	2>	78
70	GC070	4746.160	1432.520	1>	1>	77	36	115	65	54	.15	1.79	1115	1>	1.90	40	2>	.037	4.2	124	.47	.2	2>	74
71	GC071	4746.000	1432.980	1>	1>	14	36	117	37	38	.01	1.75	1048	1>	2.29	46	2>	.026	5.9	83	.70	.2>	2>	70
72	GC072	4746.470	1433.050	1	1>	26	44	151	294	29	.02	2.87	1788	1>	2.14	59	2>	.038	11.2	105	.78	.2>	2>	89
73	GC073	4746.120	1433.310	4	1>	26	54	450	62	21	.02	3.55	1332	1>	1.34	170	2>	.031	9.7	75	.76	.2>	2>	79
74	GC074	4745.720	1432.740	1>	1>	31	21	481	50	33	.04	1.01	297	1>	.23	160	2>	.014	4.6	23	.91	.8	2>	61
75	GC075	4745.580	1433.220	1>	1>	21	26	83	20	44	.03	1.77	1182	1>	2.87	30	2>	.025	8.3	76	.68	.2	2>	90
76	GC076	4745.030	1432.880	1>	1>	20	32	81	40	21	.03	1.36	701	1>	1.82	32	2>	.020	5.2	68	.69	.2>	2>	65
77	GC077	4744.720	1433.130	1>	1>	44	24	40	48	30	.09	1.04	948	1	3.17	19	2>	.018	.9	103	.67	.2>	2>	78
78	GC078	4745.100	1433.440	1>	1>	35	37	161	78	28	.25	2.81	747	1>	2.71	64	2>	.030	10.4	127	.55	.2>	2>	85
79	GC079	4745.420	1433.600	1>	1>	46	42	171	63	20	.50	3.39	924	1>	2.58	67	2>	.023	5.6	111	.51	.2>	2>	90
80	GC080	4745.270	1433.930	1>	1>	30	31	201	46	25	.39	3.54	932	1>	2.56	70	2>	.028	8.2	121	.48	.2>	2>	92
81	GC081	4744.680	1434.490	1>	1>	27	36	263	67	51	.03	1.36	709	1>	.87	134	2>	.018	.6	63	.44	.2	2>	72
82	GC082	4744.700	1433.880	1>	1>	38	38	528	69	39	.07	3.70	934	1>	1.47	168	2>	.028	10.5	97	.35	.2>	2>	93
83	GC083	4744.270	1433.830	1>	1	35	45	313	61	37	.17	3.94	927	1>	2.22	111	2>	.035	10.5	135	.44	.2>	2>	104
84	GC084	4743.650	1434.250	1>	1>	32	40	375	78	33	.19	3.85	1112	1>	1.96	133	2>	.040	7.9	162	.42	.2>	2>	109
85	GC085	4743.340	1434.780	1>	1>	16	218	5754	18	107	.02	9.92	2443	1>	.26	2617	2>	.040	11.2	21	.27	.2>	2>	173
86	GC086	4742.840	1434.620	1>	1>	12	241	6612	9	65	.01	15.31	2777	1>	.11	1957	2>	.049	.2>	8	.11	.2>	2>	198
87	GC087	4745.900	1431.720	1>	1>	11	22	32	148	63	.01	1.27	1572	1>	2.40	12	2>	.020	6.0	70	.70	.2>	2>	121
88	GC088	4745.640	1431.400	1>	1>	61	36	47	42	46	.12	1.53	1690	1>	3.61	22	2>	.031	11.5	103	1.04	.2>	2>	117
89	GC089	4745.230	1431.830	1>	1>	20	43	103	121	37	.02	1.73	1487	1>	2.47	40	2>	.021	11.6	74	.80	.2>	2>	97
90	GC090	4744.570	1431.750	1>	1>	16	32	83	60	15	.02	1.61	1091	1>	2.25	30	2>	.028	13.1	93	.90	.2>	2>	72
91	GC091	4746.100	1431.200	1>	1>	33	41	90	74	33	.02	2.65	1785	1>	3.38	41	2>	.021	6.3	78	.75	.2	2>	262
92	GC092	4745.950	1430.820	1>	1>	33	36	78	57	20	.02	2.56	809	1>	2.51	42	2>	.022	10.3	82	.56	.2>	2>	101
93	GC093	4746.560	1430.740	1>	2	42	41	365	78	46	.14	2.85	1249	1>	1.63	144	2>	.041	7.1	153	.44	.4	2>	106
94	GC094	4746.130	1430.540	1>	1>	84	37	169	64	40	.31	2.70	1068	1>	2.62	70	2>	.021	4.2	109	.47	.2	2>	87
95	GC095	4746.320	1430.290	1>	1>	37	54	539	52	47	.03	3.20	1407	1>	.87	207	2>	.037	3.7	161	.59	.2	2>	80
96	GC096	4746.610	1430.200	1>	1>	47	54	402	66	47	.06	2.86	1671	1>	1.15	169	2>	.038	5.6	140	.55	.4	2>	82
97	GC097	4747.080	1430.000	1>	1>	40	71	180	74	55	.02	1.34	2242	1>	.79	67	2>	.025	10.4	91	1.69	.4	2>	104
98	GC098	4747.400	1429.980	1>	1>	60	6	137	19	60	.24	.29	5>	1>	.05	47	2>	.011	4.7	18	.59	1.6	2>	41
99	GC099	4747.250	1430.400	1>	1>	114	11	59	14	66	.53	.31	22	1>	.04	22	2	.010	2.9	25	.28	2.0	2>	33
100	GC100	4746.500	1429.720	1>	1>	134	49	184	46	46	.16	1.06	1797	1>	1.06	68	2>	.015	1.2	52	1.17	.8	2>	81

List of Geochemical Analysis(3)

Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	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
101	GC101	4746.180	1429.580	6	1>	83	8	87	10	38	.49	.30	5>	1>	.04	49	7	.008	.2>	14	.28	2.2	2>	31
102	GC102	4746.400	1429.210	5	15	81	1>	55	7	56	.31	.24	5>	1>	.03	20	5	.014	2.0	22	.27	2.0	2>	27
103	GC103	4746.880	1429.280	3	1>	87	19	205	35	38	.44	.67	307	1>	.26	79	2>	.014	.2>	35	.51	1.6	2>	63
104	GC104	4747.170	1428.630	7	1>	253	23	99	25	47	.89	.78	507	1>	.51	55	2>	.028	3.3	78	.47	.2	2>	94
105	GC105	4747.690	1428.870	1>	1>	69	82	600	89	63	.05	3.18	2626	1>	1.71	510	2>	.030	5.7	91	.59	2.2	2>	105
106	GC106	4747.820	1428.550	30	1>	211	37	692	366	52	.97	.62	332	2	1.22	670	284	.734	1.0	39	.42	2.6	2>	1398
107	GC107	4747.250	1428.220	1>	1>	54	49	331	90	34	.14	2.03	1432	1>	1.05	232	2>	.017	6.7	58	.55	.2	2>	103
108	GC108	4746.200	1429.980	1>	1>	54	149	3180	60	43	.29	8.81	2222	1>	.18	1772	5	.012	8.8	13	.16	.4	2>	142
109	GC109	4745.950	1430.230	2	1>	120	29	81	36	47	.47	1.25	782	1>	1.48	51	2>	.015	2.7	51	.63	1.4	2>	130
110	GC110	4745.420	1430.090	14	1>	156	5	65	11	41	.95	.42	5>	1	.10	22	9	.008	.2>	40	.37	2.8	2>	53
111	GC111	4745.170	1430.440	1>	22	109	41	506	51	38	.26	3.44	900	1>	1.05	179	2>	.018	10.2	34	.31	.2	2>	89
112	GC112	4745.800	1429.590	1>	1>	66	27	67	48	71	.09	1.06	1382	1>	1.68	30	2>	.018	8.1	58	.60	.4	2>	111
113	GC113	4745.610	1429.310	1>	1>	128	25	126	40	36	.86	.70	437	1>	.29	74	8	.010	7.1	21	.54	1.6	2>	66
114	GC114	4745.600	1428.870	1>	1>	203	44	224	64	59	.41	1.85	1028	1>	.81	132	2>	.016	.2>	47	.62	1.0	2>	80
115	GC115	4746.050	1428.780	1>	1>	142	54	227	64	189	.25	1.00	2893	1>	1.08	84	2>	.055	8.6	88	.79	.4	2>	91
116	GC116	4745.320	1429.550	1>	1>	134	32	149	67	55	.55	.89	1061	1>	.46	96	10	.009	6.6	45	.74	1.2	2>	86
117	GC117	4745.220	1428.660	1>	1>	394	19	62	52	31	1.15	.99	445	1>	1.23	31	5	.012	5.5	133	.49	1.6	2>	77
118	GC118	4745.000	1429.100	1>	1>	398	23	109	46	75	.84	1.18	966	1>	1.10	52	2>	.017	9.8	138	.59	1.6	2>	71
119	GC119	4744.770	1429.410	1>	1>	68	46	162	53	60	.09	2.37	1202	1>	2.45	71	2>	.024	9.6	116	.41	.2	2>	62
120	GC120	4744.120	1429.350	1>	1>	57	63	367	90	34	.06	2.83	1619	1>	1.24	197	2>	.021	9.8	77	.73	.2	2>	84
121	GC121	4744.450	1429.760	1>	1>	47	34	73	41	42	.04	1.75	1160	1>	2.52	39	2>	.021	9.3	74	.49	.2	2>	54
122	GC122	4744.100	1430.060	1	1>	123	22	124	48	27	.93	1.14	484	1>	.67	74	6	.007	7.4	34	.42	1.4	2>	70
123	GC123	4744.380	1430.360	1>	1>	143	27	173	46	53	.49	1.59	1056	1>	2.00	94	2>	.023	8.1	84	.52	1.2	2>	79
124	GC124	4744.050	1430.720	1>	1>	156	9	57	21	55	1.15	.50	5>	1>	.09	25	16	.013	2.1	50	.44	2.6	2>	61
125	GC125	4743.560	1429.750	1>	1>	63	56	333	82	44	.44	2.51	1990	1>	.93	138	2>	.023	10.6	89	.79	.2	2>	97
126	GC126	4743.740	1430.460	1>	1>	10	56	352	57	35	.01>	3.05	734	1>	1.09	120	2>	.025	12.7	73	.70	.2>	2>	66
127	GC127	4743.590	1430.950	1>	1>	53	30	149	98	55	.05	1.65	1208	1>	2.34	81	2>	.015	6.0	71	.54	.2	2>	68
128	GC128	4743.970	1431.160	1>	1>	28	39	140	91	42	.13	1.80	869	1>	1.98	63	2>	.014	5.1	47	.76	.2	2>	112
129	GC129	4743.270	1430.360	1>	1>	57	46	103	55	68	.01>	.69	5>	1>	.19	71	2>	.012	8.5	20	.78	.2	2>	60
130	GC130	4743.280	1430.850	1>	1>	47	62	272	100	59	.02	1.75	1134	1>	1.30	106	2>	.022	8.4	62	.92	.2>	2>	93
131	GC131	4742.350	1430.210	1>	1>	95	2	39	9	47	.64	.29	5>	1>	.06	9	4	.015	1.7	29	.27	1.8	2>	28
132	GC132	4742.690	1430.610	1>	1>	55	38	146	53	41	.18	2.02	849	1>	.96	65	2>	.022	11.4	68	.66	.8	2>	71
133	GC133	4742.300	1430.950	1>	1>	74	46	155	96	34	.07	1.96	1567	1>	2.05	63	2>	.028	13.0	132	1.33	.2	2>	96
134	GC134	4742.290	1431.380	9	1>	139	14	50	16	61	.78	.35	459	1>	.13	20	7	.015	1.2	39	.30	2.6	2>	43
135	GC135	4744.200	1428.710	8	1>	99	6	43	6	44	.70	.28	5>	1>	.08	13	2>	.012	1.7	18	.25	2.6	2>	23
136	GC136	4743.820	1428.880	1>	1>	69	1	32	5	38	.35	.24	5>	1>	.05	6	12	.008	.2>	11	.23	2.2	2>	23
137	GC137	4743.330	1428.150	1	1>	140	3	44	10	65	.77	.34	5>	1>	.09	9	11	.013	4.4	39	.30	2.4	2>	29
138	GC138	4743.070	1428.550	2	1>	119	6	56	10	64	.70	.39	5>	1>	.07	16	7	.018	3.2	31	.31	2.6	2>	40
139	GC139	4742.630	1428.800	2	1>	180	16	409	39	41	.25	.25	34	1>	.26	207	21	.201	2.9	18	.31	1.6	2>	100
140	GC140	4742.300	1428.550	1>	1>	102	1>	45	6	62	.57	.30	5>	1>	.05	10	8	.013	4.1	36	.30	2.2	2>	25

Appendix 27

List of stream sediment
geochemical samples in Area C

Area: Sungai Segama Area (C Area)

Ser. No.	Sample No.	Coordinates N	Coordinates E	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
1	GC501	1434.26	4752.38	S. Segama	serp./amph.	Pr	4	2.0	4	2	B.G.
2	GC502	1434.40	4752.80	S. Segama	serpentinite	Pr	1	1.0	3	2	Blu.G.
3	GC503	1434.26	4752.78	S. Segama	serp./amph.	Pr	1	1.0	3	2	Blu.G.
4	GC504	1433.93	4751.90	S. Segama	green schist	Gs	1	1.0	3	2	Blu.G.
5	GC505	1433.86	4752.42	S. Segama	green schist	Gs	4	4.0	4	2	Blu.G.
6	GC506	1433.54	4752.38	S. Segama	green schist	Gs	1	1.0	4	2	Blu.G.
7	GC507	1433.44	4751.96	S. Segama	green schist	Gs	1	1.0	4	2	Blu.G.
8	GC508	1433.13	4752.52	S. Segama	sandstone	P_4Km	2	2.0	3	2	B.
9	GC509	1432.99	4752.18	S. Segama	sandstone	P_4Km	1	1.0	3	2	B.
10	GC510	1432.85	4752.19	S. Segama	sandstone	P_4Km	1	1.0	3	2	B.
11	GC511	1433.24	4752.83	S. Segama	sandstone	P_4Km	4	10.0	4	2	B.
12	GC512	1432.85	4753.27	S. Segama	sandstone	P_4Km	2	1.0	3	2	B.
13	GC513	1432.68	4753.16	S. Segama	sandstone	P_4Km	4	10.0	3	2	B.
14	GC514	1432.17	4752.85	S. Segama	sandstone	P_4Km	1	1.0	3	2	B.
15	GC515	1432.24	4753.38	S. Segama	sandstone	P_4Km	4	5.0	3	2	B.
16	GC516	1432.00	4753.28	S. Segama	sandstone	P_4Km	1	0.5	3	2	B.
17	GC517	1431.84	4753.58	S. Segama	basaltic tf.	P_4Km	3	5.0	3	2	B.
18	GC518	1431.59	4753.22	S. Segama	basaltic tf.	P_4Km	1	1.5	3	2	B.
19	GC519	1434.72	4751.81	S. Segama	serpentinite	Pr	5	40.0	4	2	G.B.
20	GC520	1434.65	4751.28	S. Segama	green schist	Gs	5	40.0	4	2	G.B.
21	GC521	1434.87	4750.90	S. Segama	serpentinite	Pr	5	30.0	4	2	G.B.
22	GC522	1434.53	4750.55	S. Segama	serpentinite	Pr	5	20.0	4	2	G.B.
23	GC523	1434.10	4750.60	S. Segama	serpentinite	Pr	5	20.0	4	2	G.B.
24	GC524	1434.04	4750.02	S. Segama	serpentinite	Pr	1	1.0	4	2	Blu.G.
25	GC525	1433.25	4750.47	S. Segama	serpentinite	Pr	1	1.0	4	2	Blu.G.
26	GC526	1433.19	4750.33	S. Segama	serpentinite	Pr	1	1.0	4	2	Blu.G.
27	GC527	1433.61	4750.13	S. Segama	serpentinite	Pr	5	40.0	3	2	G.B.
28	GC528	1433.53	4749.90	S. Segama	serpentinite	Pr	5	35.0	4	2	B.
29	GC529	1433.90	4749.22	S. Segama	green schist	Gs	3	4.0	3	2	Blu.G.
30	GC530	1434.45	4749.03	S. Segama	green schist	Gs	1	1.5	4	2	Blu.G.
31	GC531	1434.23	4748.85	S. Segama	green schist	Gs	2	3.5	3	2	Blu.G.
32	GC532	1434.37	4748.61	S. Segama	green schist	Gs	1	1.0	3	2	Blu.G.
33	GC533	1434.22	4748.56	S. Segama	green schist	Gs	2	3.0	3	2	Blu.G.
34	GC534	1434.48	4748.03	S. Segama	green schist	Gs	1	0.5	3	2	Blu.G.
35	GC535	1434.30	4747.93	S. Segama	green schist	Gs	1	1.0	4	2	Blu.G.
36	GC536	1433.96	4747.81	S. Segama	green schist	Gs	1	1.0	4	2	Blu.G.
37	GC537	1434.45	4747.87	S. Segama	green schist	Gs	2	3.0	3	2	Blu.G.
38	GC538	1434.66	4747.33	S. Segama	green schist	Gs	2	2.5	3	2	Blu.G.
39	GC539	1434.60	4747.19	S. Segama	green schist	Gs	1	1.0	4	2	Blu.G.
40	GC540	1434.48	4747.27	S. Segama	green schist	Gs	1	1.0	3	2	Blu.G.
41	GC541	1434.35	4746.86	S. Segama	ss/shale/sch	Ps	1	1.0	4	2	Blu.G.
42	GC542	1434.38	4746.40	S. Segama	ss/shale/sch	Ps	1	1.0	3	2	Blu.G.
43	GC543	1433.36	4749.55	S. Segama	—	Ps	5	35.0	3	2	B.
44	GC544	1433.30	4748.93	S. Segama	—	Ps	1	1.0	3	2	B.G.
45	GC545	1433.32	4748.50	S. Segama	—	Ps	1	1.0	3	2	Blu.G.
46	GC546	1433.31	4748.07	S. Segama	—	Gs	1	1.0	3	2	Blu.G.
47	GC547	1433.05	4749.49	S. Segama	—	Ps	5	30.0	3	2	B.
48	GC548	1432.55	4749.35	S. Segama	—	Gs	5	30.0	3	2	B.
49	GC549	1431.94	4749.76	S. Segama	tonalite	I_1	2	4.0	3	2	B.
50	GC550	1431.78	4750.15	S. Segama	dolerite	Csba	1	2.0	3	2	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 N	Coordinates E	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
51	GC551	1431.67	4750.05	S. Segama	dolerite	Csba	1	2.0	3	2	B.
52	GC552	1432.08	4749.20	S. Segama	tonalite	I_1	5	4.0	3	2	G.B.
53	GC553	1431.80	4748.84	S. Segama	serp./amph.	Gs	2	4.0	3	2	G.B.
54	GC554	1431.20	4748.30	S. Segama	— .	Csba	1	2.0	3	2	G.
55	GC555	1431.15	4748.75	S. Segama	breccia	Csba	2	2.0	4	2	G.
56	GC556	1430.67	4748.83	S. Segama	breccia	P_4Km	1	1.5	4	2	G.
57	GC557	1430.58	4748.67	S. Segama	breccia	P_4Km	1	1.5	4	2	B.
58	GC558	1432.05	4748.43	S. Segama	serp./sch.	Pr	5	20.0	3	2	B.
59	GC559	1432.34	4747.92	S. Segama	serp./sch.	Pr	2	1.0	4	1	Blu.G.
50	GC560	1432.67	4747.78	S. Segama	serp./sch.	Pr	1	1.0	4	1	Blu.G.
61	GC561	1432.56	4747.71	S. Segama	serp./sch.	Pr	1	1.0	4	1	Blu.G.
62	GC562	1432.00	4748.03	S. Segama	serp./sch.	Pr	5	30.0	4	1	G.
63	GC563	1431.80	4747.57	S. Segama	serp./sch.	Pr	1	1.0	4	1	Blu.G.
64	GC564	1431.50	4747.59	S. Segama	serpentinite	Pr	1	1.0	4	1	Blu.G.
65	GC565	1431.94	4747.48	S. Segama	serpentinite	Pr	5	30.0	4	1	B.
66	GC566	1431.93	4747.15	S. Segama	serpentinite	Pr	1	1.0	4	1	Blu.G.
67	GC567	1432.12	4747.15	S. Segama	serpentinite	Pr	5	25.0	4	1	B.
68	GC568	1432.35	4746.50	S. Segama	serp./sch.	Gs	5	10.0	4	1	B.
69	GC569	1432.39	4746.04	S. Segama	amphibolite	Gs	4	7.0	4	1	D.G.
70	GC570	1432.98	4746.21	S. Segama	amphibolite	Gs	2	1.5	2	1	D.G.
71	GC571	1433.22	4746.45	S. Segama	green schist	Gs	1	1.0	1	3	D.G.
72	GC572	1433.24	4746.30	S. Segama	green schist	Gs	1	1.0	1	3	D.G.
73	GC573	1432.86	4745.82	S. Segama	green schist	Gs	4	7.0	3	2	D.G.
74	GC574	1433.07	4745.52	S. Segama	green schist	Gs	4	10.0	3	2	D.G.
75	GC575	1432.96	4744.70	S. Segama	green schist	Gs	1	3.0	3	3	D.G.
76	GC576	1433.30	4745.20	S. Segama	green schist	Gs	4	9.0	4	2	D.G.
77	GC577	1433.80	4745.19	S. Segama	green schist	Gs	4	7.0	4	1	D.G.
78	GC578	1434.50	4744.86	S. Segama	green schist	Gs	2	2.0	4	1	Y.G.
79	GC579	1434.88	4744.77	S. Segama	green schist	Gs	2	2.0	3	1	Y.G.
80	GC580	1434.87	4744.67	S. Segama	green schist	Gs	1	2.0	3	1	B.G.
81	GC581	1434.03	4744.50	S. Segama	green schist	Gs	4	7.0	2	3	D.G.
82	GC582	1434.05	4744.12	S. Segama	green schist	Gs	4	12.0	3	3	B.G.
83	GC583	1433.87	4743.72	S. Segama	green schist	Gs	1	2.0	3	2	D.G.
84	GC584	1434.40	4743.82	S. Segama	green schist	Gs	4	10.0	3	2	D.G.
85	GC585	1434.63	4743.00	S. Segama	serpentinite	Pr	1	1.0	3	2	D.G.
86	GC586	1434.85	4742.93	S. Segama	serpentinite	Pr	2	2.0	3	2	D.G.
87	GC587	1434.75	4742.83	S. Segama	serpentinite	Pr	4	10.0	4	1	D.G.
88	GC588	1431.83	4746.09	S. Segama	green schist	Gs	4	5.0	4	2	D.G.
89	GC589	1431.57	4745.60	S. Segama	green schist	Gs	2	2.0	4	1	D.G.
90	GC590	1431.61	4745.10	S. Segama	green schist	Gs	1	1.0	4	1	D.G.
91	GC591	1431.76	4745.07	S. Segama	green schist	Gs	1	1.0	4	1	D.G.
92	GC592	1431.91	4744.62	S. Segama	green schist	Gs	1	1.0	3	1	D.G.
93	GC593	1431.50	4746.08	S. Segama	green schist	Gs	4	5.0	4	2	D.G.
94	GC594	1431.17	4745.95	S. Segama	green schist	Gs	4	7.0	3	3	D.G.
95	GC595	1430.84	4746.11	S. Segama	green schist	Gs	4	8.0	3	3	D.G.
96	GC596	1430.40	4746.47	S. Segama	—	Pr	4	8.0	3	3	D.G.
97	GC597	1430.13	4746.91	S. Segama	—	P_4Km	2	1.5	3	2	D.G.
98	GC598	1430.28	4747.35	S. Segama	sandstone	P_4Km	1	1.0	2	1	D.G.
99	GC599	1430.13	4747.37	S. Segama	sandstone	P_4Km	1	1.0	2	1	D.G.
100	GC600	1429.90	4746.50	S. Segama	—	Pr	4	5.0	3	2	D.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 N	Coordinates E	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow *1	Size *2	Color
101	GC601	1429.36	4746.52	S. Segama	sandstone	P_4Km	3	4.0	2	2	Y.G.
102	GC602	1429.12	4746.78	S. Segama	sandstone	P_4Km	3	3.0	2	2	Y.G.
103	GC603	1428.92	4747.05	S. Segama	sandstone	P_4Km	3	3.0	2	2	Y.G.
104	GC604	1428.78	4747.82	S. Segama	sandstone	P_4Km	1	1.0	3	1	D.G.
105	GC605	1428.68	4747.90	S. Segama	sandstone	P_4Km	1	1.0	3	1	D.G.
106	GC606	1428.62	4747.34	S. Segama	sandstone	P_4Km	2	3.0	3	2	D.G.
107	GC607	1430.13	4745.80	S. Segama	—	Csba	1	2.0	2	2	D.G.
108	GC608	1430.26	4745.39	S. Segama	—	Csba	1	1.0	3	1	D.G.
109	GC609	1430.37	4744.98	S. Segama	—	Gb	1	1.0	2	2	D.G.
110	GC610	1429.76	4745.66	S. Segama	basalt	Csba	1	1.0	3	2	D.G.
111	GC611	1429.61	4745.65	S. Segama	basalt	Csba	4	5.0	3	2	D.G.
112	GC612	1428.96	4745.73	S. Segama	sandstone	P_4Km	1	3.0	2	2	R.G.
113	GC613	1428.60	4746.00	S. Segama	basalt	P_4Km	1	2.0	3	2	D.G.
114	GC614	1429.40	4745.29	S. Segama	basalt	Csba	4	5.0	3	2	Y.G.
115	GC615	1428.80	4745.34	S. Segama	basalt	P_4Km	1	2.0	3	2	D.G.
116	GC616	1429.26	4745.03	S. Segama	basalt	Csba	4	2.0	3	2	D.G.
117	GC617	1429.25	4744.70	S. Segama	dolerite	Csba	4	4.0	4	3	Y.G.
118	GC618	1429.40	4744.30	S. Segama	dolerite	Csba	3	4.0	4	1	D.G.
119	GC619	1429.78	4744.30	S. Segama	dolerite	Csba	1	2.0	3	2	Y.G.
120	GC620	1430.08	4744.27	S. Segama	dolerite	Csba	1	2.0	3	2	D.G.
121	GC621	1430.37	4744.21	S. Segama	sandstone	Csba	1	2.0	3	2	D.G.
122	GC622	1430.77	4744.24	S. Segama	basalt	Csba	1	2.0	3	2	D.G.
123	GC623	1429.72	4743.95	S. Segama	dolerite	Csba	3	4.0	3	2	Y.G.
124	GC624	1429.90	4743.68	S. Segama	dolerite	Csba	3	4.0	3	2	D.G.
125	GC625	1430.58	4743.64	S. Segama	gabbro	Gb	2	2.0	3	1	D.G.
126	GC626	1431.10	4743.77	S. Segama	gabbro	Gb	1	2.0	3	1	D.G.
127	GC627	1431.08	4743.66	S. Segama	gabbro	Gb	1	2.0	3	1	Y.G.
128	GC628	1430.20	4743.25	S. Segama	gabbro	Gb	2	4.0	3	1	D.G.
129	GC629	1430.43	4743.00	S. Segama	gabbro	Gb	1	1.0	3	1	D.G.
130	GC630	1430.78	4743.12	S. Segama	gabbro	Gb	1	1.0	2	1	D.G.
131	GC631	1430.38	4742.85	S. Segama	sandstone	P_4Km	2	3.0	2	1	Y.G.
132	GC632	1430.67	4742.29	S. Segama	sandstone	P_4Km	2	2.0	3	2	Y.B.
133	GC633	1431.00	4742.12	S. Segama	sandstone	P_4Km	2	2.0	3	2	Y.B.
134	GC634	1431.38	4742.10	S. Segama	sandstone	P_4Km	2	2.0	3	2	D.B.
135	GC635	1431.52	4742.18	S. Segama	sandstone	P_4Km	1	1.0	3	1	D.B.
136	GC636	1429.05	4744.10	S. Segama	dolerite	Csba	4	4.0	4	2	Y.G.
137	GC637	1428.64	4743.85	S. Segama	sandstone	P_4Km	4	5.0	3	2	Y.G.
138	GC638	1428.44	4743.65	S. Segama	sandstone	P_4Km	4	5.0	4	1	Y.
139	GC639	1428.48	4742.90	S. Segama	sandstone	P_4Km	2	3.0	3	2	Y.G
140	GC640	1428.68	4742.40	S. Segama	sandstone	P_4Km	2	4.0	2	2	Y.G

*1: none(0), puddle(1), slow(2), moderate(3), fast(4)
*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Appendix 28

Analytical results of stream sediment geochemical samples in Area C

List of Geochemical Analysis(1)

Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	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
1	GC501	4752.380	1434.260	1>	1>	60	14	836	16	11	.24	1.13	324	1	.47	50	5	.033	9.8	57	.35	1.6	2>	42
2	GC502	4752.800	1434.400	1>	1>	50	22	410	37	10>	.21	2.87	855	1>	2.62	83	2>	.072	7.1	227	.82	.2>	2>	93
3	GC503	4752.780	1434.260	1>	1>	46	27	669	33	10>	.17	2.76	1037	1>	2.18	75	2>	.079	9.3	255	.98	.2	2>	88
4	GC504	4751.900	1433.930	1>	1>	101	35	707	50	10>	.49	4.53	882	1>	2.12	197	2>	.046	9.9	242	.52	.2	2>	88
5	GC505	4752.420	1433.860	1>	1>	66	12	1184	13	10	.26	.98	343	1>	.39	45	2	.024	12.2	53	.34	2.2	2	38
6	GC506	4752.380	1433.540	1>	1>	73	14	360	17	11	.27	1.09	323	1>	.38	40	2>	.023	7.9	47	.23	1.4	2>	36
7	GC507	4751.960	1433.440	1>	1>	88	11	284	17	12	.37	.92	411	2	.40	36	3	.018	7.7	44	.24	1.0	2>	35
8	GC508	4752.520	1433.130	1>	1>	74	7	174	12	13	.25	.53	251	2	.34	29	6	.015	5.6	34	.24	1.2	3	30
9	GC509	4752.180	1432.990	1>	1>	90	7	221	10	13	.24	.31	205	1>	.18	15	2>	.011	4.3	25	.20	1.4	2>	21
10	GC510	4752.190	1432.850	11	2	68	6	202	11	14	.24	.44	205	1	.28	23	2>	.012	5.3	29	.24	1.2	2>	25
11	GC511	4752.830	1433.240	1>	1>	54	8	576	12	13	.25	.87	272	1>	.35	37	2	.020	7.8	46	.26	.6	2>	31
12	GC512	4753.270	1432.850	1>	1>	64	13	224	17	16	.33	1.24	413	1>	1.00	39	2>	.022	8.3	71	.53	1.0	2>	35
13	GC513	4753.160	1432.680	1>	1>	74	9	184	14	11	.32	.91	251	1>	.42	44	2>	.018	6.0	44	.25	.8	2>	31
14	GC514	4752.850	1432.170	1>	1>	83	4	155	11	12	.30	.30	171	2	.23	20	5	.012	1.7	25	.20	1.2	2>	22
15	GC515	4753.380	1432.240	1>	1>	69	10	257	12	11	.29	.83	254	1>	.34	39	2>	.017	3.4	39	.22	.8	2>	29
16	GC516	4753.280	1432.000	3	1>	57	8	362	11	16	.20	.65	218	1>	.45	35	2>	.014	4.7	41	.25	1.2	2	24
17	GC517	4753.580	1431.840	2	1>	71	12	315	16	10	.32	1.13	307	1>	.62	46	2>	.020	10.1	60	.30	.8	2>	37
18	GC518	4753.220	1431.590	1>	1>	62	3	231	9	11	.20	.24	147	1>	.21	19	2	.012	4.0	21	.18	1.0	2>	19
19	GC519	4751.810	1434.720	1>	1>	70	19	448	20	10>	.35	1.17	413	1>	.66	59	2>	.034	7.6	70	.42	1.0	2>	42
20	GC520	4751.280	1434.650	1>	1>	79	18	443	20	10>	.41	1.19	455	1>	.70	61	2	.033	8.3	69	.51	1.6	2>	46
21	GC521	4750.900	1434.870	1>	1>	63	18	1180	19	11	.25	1.00	715	1>	.45	65	2>	.067	14.2	76	.75	2.2	2>	58
22	GC522	4750.550	1434.530	1>	1>	75	9	243	19	12	.35	1.09	344	1>	.61	51	2>	.024	7.2	63	.38	.8	2>	40
23	GC523	4750.600	1434.100	1>	1>	83	12	356	19	13	.35	1.10	438	1	.59	55	2>	.038	9.1	66	.51	2.0	2>	45
24	GC524	4750.020	1434.040	1>	1>	176	33	554	45	10>	.62	3.25	1467	1>	1.64	115	2>	.064	12.5	169	1.19	.6	2>	90
25	GC525	4750.470	1433.250	1>	1>	53	24	208	40	10>	.32	2.30	888	1>	2.01	43	2>	.043	13.1	163	.95	.2	2>	75
26	GC526	4750.330	1433.190	1>	1>	51	29	220	37	10	.32	2.21	932	1>	1.97	41	2>	.045	12.5	161	1.02	.4	2>	75
27	GC527	4750.130	1433.610	1>	1>	67	10	379	17	11	.28	.97	392	1>	.52	46	2>	.030	6.2	64	.45	1.8	3	39
28	GC528	4749.900	1433.530	1>	1>	84	16	232	22	10>	.43	1.31	376	1>	.75	63	2>	.022	7.5	66	.38	.8	5	47
29	GC529	4749.220	1433.900	1>	1>	103	33	726	38	10>	.43	4.93	931	1>	1.96	153	2>	.051	14.9	181	.50	.2	2>	83
30	GC530	4749.030	1434.450	1>	1>	58	23	328	55	10>	.47	4.35	897	1>	2.52	119	2>	.051	4.4	280	.34	.2	2>	81
31	GC531	4748.850	1434.230	1>	1>	139	35	1290	38	10>	.53	4.18	1381	1>	1.93	124	2>	.052	10.9	171	.69	.4	2>	89
32	GC532	4748.610	1434.370	1>	1>	121	35	999	48	10>	.53	3.47	1102	1>	1.93	149	2>	.041	11.5	209	.69	.2	2>	84
33	GC533	4748.560	1434.220	1>	1>	116	37	919	30	10>	.39	4.61	1101	1>	1.72	130	2>	.046	10.4	133	.63	.2	2>	84
34	GC534	4748.030	1434.480	1>	1>	122	25	637	38	13	.54	3.67	948	1>	1.98	97	2>	.039	9.7	194	.62	.2	2>	79
35	GC535	4747.930	1434.300	1>	1>	164	35	558	37	10>	.34	4.28	1046	1>	1.93	118	2>	.038	13.5	176	.61	.4	2>	79
36	GC536	4747.810	1433.960	1>	1>	165	37	675	36	12	.43	4.37	1224	1	2.02	109	2>	.039	13.8	172	.69	.4	2>	79
37	GC537	4747.870	1434.450	1>	1>	107	36	1188	27	10>	.40	4.54	1252	1>	1.74	129	2>	.050	7.3	127	.71	.2	2>	85
38	GC538	4747.330	1434.660	1>	1>	62	33	842	24	10>	.24	4.84	1010	1>	1.61	117	2>	.057	15.1	112	.64	.2>	2>	79
39	GC539	4747.190	1434.600	1>	1>	176	30	477	37	10>	.67	3.82	1601	1>	2.17	86	2>	.034	14.8	168	.62	.4	2>	77
40	GC540	4747.270	1434.480	1>	1>	257	29	1020	37	10>	.86	4.02	1483	1>	2.12	170	2>	.034	16.8	169	.80	.4	2>	88
41	GC541	4746.860	1434.350	1>	1>	250	34	738	38	10>	.93	4.12	1147	1>	2.32	171	2>	.037	12.0	173	.69	.6	2>	97
42	GC542	4746.400	1434.380	1>	1>	235	33	1284	37	10>	.69	4.35	1546	1>	2.22	185	2>	.039	19.3	165	.76	.6	2>	106
43	GC543	4749.550	1433.360	1>	1>	68	10	338	17	11	.30	.97	378	1>	.56	48	2>	.037	9.8	62	.45	1.4	2>	43
44	GC544	4748.930	1433.300	1>	1>	44	33	1067	39	10>	.35	4.88	910	1>	1.96	126	2>	.044	5.6	173	.46	.2	2>	99
45	GC545	4748.500	1433.320	1>	20	53	39	1014	38	10>	.42	5.15	924	1>	2.12	127	2>	.045	4.6	176	.46	.2	2	100
46	GC546	4748.070	1433.310	1>	1>	60	41	981	39	10>	.38	5.33	937	1>	2.01	129	2>	.045	12.1	175	.47	.2>	2>	101
47	GC547	4749.490	1433.050	1>	1>	72	16	316	19	10	.34	1.08	408	1>	.64	51	6	.027	11.8	65	.48	1.6	3	47
48	GC548	4749.350	1432.550	1>	1>	71	13	261	17	11	.32	.99	332	1>	.57	48	4	.024	4.5	58	.38	1.4	2>	42
49	GC549	4749.760	1431.940	1>	1>	93	10	217	14	18	.40	.58	300	1	.44	29	7	.015	8.3	44	.28	1.2	2>	38
50	GC550	4750.150	1431.780	1>	1>	101	15	228	16	11	.46	.65	350	1>	.44	33	7	.017	3.9	39	.28	1.4	2	40

List of Geochemical Analysis(2)

Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	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
51	GC551	4750.050	1431.670	3	1>	100	13	169	15	13	.43	.62	312	1	.42	34	9	.017	6.4	39	.28	1.4	2>	42
52	GC552	4749.200	1432.080	1>	1>	79	11	259	20	10	.43	1.22	377	1>	.70	65	3	.026	5.6	63	.44	1.2	2>	51
53	GC553	4748.840	1431.800	1>	1>	54	14	259	14	11	.25	1.15	465	1>	.64	41	2>	.033	8.6	96	.48	1.0	2>	41
54	GC554	4748.300	1431.200	1>	1>	37	27	335	29	10	.14	2.09	887	1>	3.02	74	2>	.051	9.2	347	.93	.2	2>	71
55	GC555	4748.750	1431.150	1>	1>	54	19	373	15	10>	.21	1.48	585	1>	.65	44	2>	.034	10.4	86	.63	1.0	2>	49
56	GC556	4748.830	1430.670	1>	1>	60	20	318	19	10>	.25	1.59	506	1>	.76	59	2>	.029	7.4	86	.56	1.0	2	55
57	GC557	4748.670	1430.580	12	1>	57	17	329	16	12	.25	1.45	503	1>	.75	56	2>	.027	8.5	79	.53	.8	3	51
58	GC558	4748.430	1432.050	1>	1>	83	19	333	21	15	.40	1.28	415	1>	.65	71	2>	.026	10.4	64	.43	1.0	2>	54
59	GC559	4747.920	1432.340	1>	5	59	41	1074	36	10	.27	3.93	1103	1>	2.08	174	2>	.046	7.2	186	.79	.2	2>	102
60	GC560	4747.780	1432.670	1>	1>	72	36	873	37	11	.25	2.68	1232	1>	2.28	143	2>	.056	17.2	161	1.16	.2	2>	111
61	GC561	4747.710	1432.560	1>	1>	57	36	988	34	10>	.24	3.88	988	1>	1.77	168	2>	.040	14.0	163	.66	.2>	2>	90
62	GC562	4748.030	1432.000	1>	1>	61	11	505	15	10>	.23	.82	349	1>	.42	40	2>	.039	9.7	52	.40	2.8	2>	39
63	GC563	4747.570	1431.800	1>	1>	33	23	376	25	10>	.15	1.81	713	1>	1.93	75	2>	.041	14.1	271	.74	.4	2>	64
64	GC564	4747.590	1431.500	1>	1>	42	25	377	31	10>	.21	1.98	824	1>	2.41	72	2>	.047	6.2	323	.87	.4	2>	73
65	GC565	4747.480	1431.940	1>	1>	57	11	414	14	10>	.20	.76	349	1>	.37	37	2>	.029	11.3	51	.40	2.0	2>	38
66	GC566	4747.150	1431.930	1>	1>	68	65	2056	25	10	.16	11.74	1048	1>	.84	1124	2>	.054	11.0	82	.57	.4	2>	161
67	GC567	4747.150	1432.120	1>	1>	67	14	315	16	10>	.30	1.00	347	1>	.53	54	2>	.024	11.9	56	.42	1.4	2>	43
68	GC568	4746.500	1432.350	1>	1>	60	12	447	15	13	.22	.92	372	1>	.41	51	3	.038	7.4	57	.44	1.2	2>	43
69	GC569	4746.040	1432.390	1>	1>	57	14	782	22	10	.22	1.12	593	1>	.49	73	2>	.063	11.9	87	.65	1.0	2>	66
70	GC570	4746.210	1432.980	1>	1>	69	39	912	39	10>	.23	4.01	1120	1>	1.84	120	2>	.055	16.4	140	.93	.2	2>	97
71	GC571	4746.450	1433.220	1>	1>	101	39	1196	38	10>	.34	4.12	1136	1>	1.86	162	2>	.047	11.9	143	.77	.4	2>	94
72	GC572	4746.300	1433.240	1>	1>	11	33	423	19	10>	.03	2.52	1408	1>	2.20	64	2>	.036	19.4	143	1.54	.2>	2>	76
73	GC573	4745.820	1432.860	1>	1>	65	20	528	20	10>	.32	1.24	481	1>	.59	78	5	.043	7.3	76	.55	1.0	2	59
74	GC574	4745.520	1433.070	1>	1>	73	18	363	20	11	.38	1.30	485	1>	.63	79	2>	.043	12.1	74	.58	1.2	2>	66
75	GC575	4744.700	1432.960	1>	1>	27	23	162	31	10>	.08	1.46	1052	1>	1.93	24	2>	.046	16.3	86	1.02	.2	2>	94
76	GC576	4745.200	1433.300	1>	1>	74	15	455	22	14	.41	1.34	485	1>	.67	83	2>	.031	10.2	76	.58	1.2	2>	65
77	GC577	4745.190	1433.800	1>	1	65	23	924	20	10>	.27	1.19	689	1>	.50	82	2>	.077	10.8	83	.73	1.4	2>	73
78	GC578	4744.860	1434.500	1>	1>	71	28	1169	44	10>	.31	3.03	1163	1>	1.84	127	2>	.116	19.4	157	.82	.4	2>	108
79	GC579	4744.770	1434.880	1>	1>	67	31	939	39	10	.26	2.74	1042	1>	1.61	110	2>	.109	13.7	146	.76	.8	2>	95
80	GC580	4744.670	1434.870	1>	1>	40	27	353	32	10>	.18	2.34	833	1>	2.15	80	2>	.038	15.7	137	.88	.2>	4	98
81	GC581	4744.500	1434.030	1>	1>	64	13	575	18	10>	.29	1.05	438	1>	.42	75	2>	.037	6.9	60	.53	1.4	2>	63
82	GC582	4744.120	1434.050	1>	1>	66	13	339	18	12	.31	1.10	407	1>	.48	70	6	.031	5.3	63	.52	1.2	2>	56
83	GC583	4743.720	1433.870	1>	1>	21	23	195	28	10>	.13	1.68	1263	1>	1.60	33	2>	.053	14.6	123	1.36	.2	2>	120
84	GC584	4743.820	1434.400	1>	1>	69	11	352	18	14	.34	1.14	398	1>	.49	73	2>	.028	6.5	59	.49	1.0	2>	56
85	GC585	4743.000	1434.630	1>	1>	35	34	1292	28	10>	.21	2.89	1018	1>	1.90	196	2>	.032	23.6	140	.87	.2	2>	111
86	GC586	4742.930	1434.850	1>	1>	42	79	5414	26	10	.16	8.16	1627	1>	.69	778	2>	.036	30.0	65	.75	.2	2>	178
87	GC587	4742.830	1434.750	1>	1>	66	16	370	17	11	.32	1.02	386	1>	.44	68	2>	.028	6.6	57	.49	1.0	2>	55
88	GC588	4746.090	1431.830	1>	1>	58	16	413	14	10>	.24	.81	296	1>	.43	39	6	.025	5.9	52	.32	.8	2>	31
89	GC589	4745.600	1431.570	1>	1>	19	23	120	38	10>	.08	1.92	982	1>	2.91	26	30	.057	43.6	115	.98	.2>	2	75
90	GC590	4745.100	1431.610	1>	1>	13	35	169	48	10>	.04	2.70	1052	1>	2.69	37	28	.101	54.9	112	.95	.2>	3	85
91	GC591	4745.070	1431.760	15	1>	25	33	162	45	10>	.08	2.25	1101	1>	2.81	31	44	.103	53.2	115	1.08	.2	6	87
92	GC592	4744.620	1431.910	1>	1>	28	26	127	41	10>	.11	1.89	1066	1>	3.17	22	38	.070	47.2	124	1.08	.2>	2>	86
93	GC593	4746.080	1431.500	1>	1>	58	13	309	14	14	.24	.77	290	1>	.43	37	13	.026	16.8	48	.31	1.2	6	33
94	GC594	4745.950	1431.170	1>	1>	60	12	354	15	10>	.23	.82	330	1>	.43	38	11	.026	22.4	52	.35	1.0	2	32
95	GC595	4746.110	1430.840	1>	1>	49	10	312	55	10	.18	.60	244	1>	.28	36	13	1.714	19.3	40	.27	1.0	3	31
96	GC596	4746.470	1430.400	1>	1>	66	13	687	14	13	.23	.72	357	1>	.35	41	24	.034	25.5	45	.38	2.6	2>	37
97	GC597	4746.910	1430.130	3	1>	44	37	279	32	10>	.19	2.67	1013	1>	1.29	58	21	.041	50.1	141	1.05	.4	3	68
98	GC598	4747.350	1430.280	1>	1>	34	37	345	35	14	.16	3.17	833	1>	1.42	86	29	.045	47.0	147	.77	.4	3	64
99	GC599	4747.370	1430.130	1>	1>	38	30	278	35	10>	.21	2.27	1017	1>	1.24	58	27	.037	47.1	139	1.09	.4	2>	69
100	GC600	4746.500	1429.900	1>	1>	62	12	375	13	11	.24	.66	250	1>	.36	31	15	.023	18.3	43	.28	1.4	2>	28

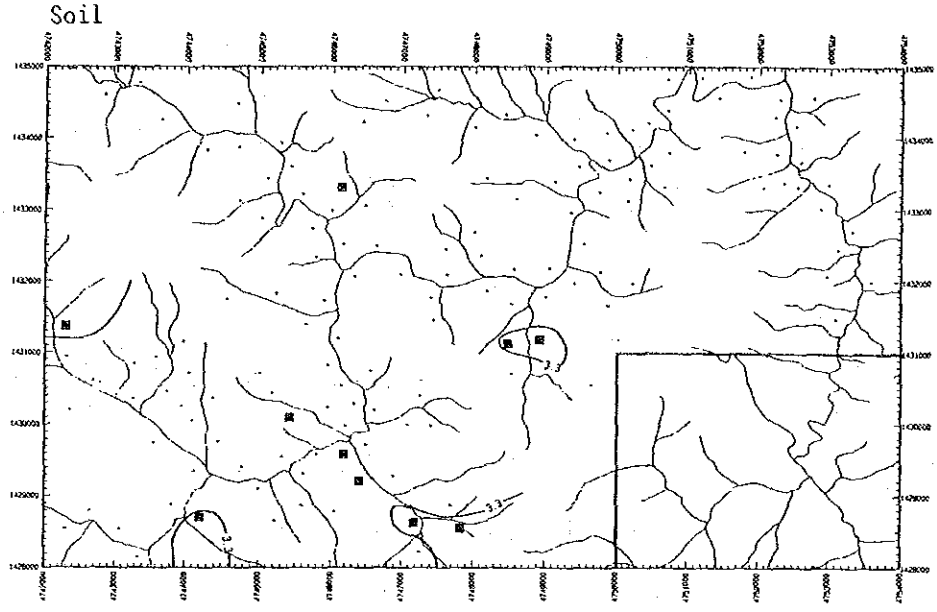
List of Geochemical Analysis(3)

Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	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
101	GC601	4746.520	1429.360	1>	1>	50	12	199	11	11	.19	.50	194	1>	.26	34	15	.013	15.9	35	.22	1.2	3	26
102	GC602	4746.780	1429.120	1>	1>	49	9	199	9	15	.20	.36	104	1>	.19	20	12	.011	12.0	24	.17	1.4	4	19
103	GC603	4747.050	1428.920	1>	1>	43	6	144	11	13	.18	.47	153	1>	.26	23	2>	.009	6.4	25	.15	.8	2>	23
104	GC604	4747.820	1428.780	1>	1>	178	17	289	22	17	.53	.82	460	1>	.86	31	2>	.019	7.9	119	.38	1.0	2>	45
105	GC605	4747.900	1428.680	1	1>	213	12	231	26	21	.60	.96	504	1>	1.14	36	2>	.027	8.7	152	.42	1.0	2>	52
106	GC606	4747.340	1428.620	1>	1>	55	8	255	13	10	.24	.61	205	1>	.34	37	2>	.014	7.6	33	.22	1.2	2>	27
107	GC607	4745.800	1430.130	1>	1>	46	29	494	38	10>	.21	1.96	716	1>	1.73	105	2>	.036	14.1	163	.57	.4	2>	63
108	GC608	4745.390	1430.260	1>	1>	49	27	530	33	10>	.18	2.23	1022	1>	2.15	137	2>	.037	10.0	129	.97	.4	2>	70
109	GC609	4744.980	1430.370	1>	1>	38	29	644	32	10>	.17	2.15	1013	1>	2.16	137	2>	.049	10.0	131	.99	.4	2>	68
110	GC610	4745.660	1429.760	1>	45	62	29	859	30	19	.26	2.95	755	1>	1.25	201	2>	.047	15.0	147	.69	.4	2	71
111	GC611	4745.650	1429.610	1>	1>	69	11	249	15	10	.27	.68	241	1>	.37	34	5	.019	8.6	39	.26	1.2	3	31
112	GC612	4745.730	1428.960	4	1>	90	22	529	21	14	.41	1.23	505	1>	.70	61	2>	.027	9.7	63	.37	1.0	3	48
113	GC613	4746.000	1428.600	1>	1>	99	24	374	25	15	.57	1.19	538	1>	.57	59	2>	.020	7.7	47	.34	1.0	2>	53
114	GC614	4745.290	1429.400	1>	1>	68	8	290	11	12	.25	.56	192	1>	.30	38	29	.022	6.9	36	.24	1.2	3	29
115	GC615	4745.340	1428.800	1>	1>	107	27	473	34	18	.36	2.36	840	1>	1.48	113	2>	.047	10.3	95	.53	.6	2>	65
116	GC616	4745.030	1429.260	1>	1>	64	5	200	10	13	.24	.50	166	1>	.25	24	2>	.016	3.8	30	.22	1.4	2	25
117	GC617	4744.700	1429.250	1>	1>	55	8	143	8	15	.19	.36	115	1>	.17	19	2	.011	3.4	22	.16	1.2	2>	23
118	GC618	4744.300	1429.400	1>	1>	65	25	397	28	11	.31	1.78	621	1>	1.05	71	2>	.040	6.9	104	.52	.6	2>	56
119	GC619	4744.300	1429.780	1>	1>	67	20	522	30	10>	.27	2.05	915	1>	1.29	122	2>	.036	12.1	146	.61	.6	2>	59
120	GC620	4744.270	1430.080	1>	1>	72	23	689	35	10>	.33	2.45	1082	1>	1.64	144	2>	.046	12.9	173	.70	.4	2>	70
121	GC621	4744.210	1430.370	1>	1>	65	23	481	35	10>	.27	2.40	939	1>	1.54	184	2>	.037	9.6	158	.61	.4	2>	67
122	GC622	4744.240	1430.770	1>	1>	52	18	498	34	10>	.27	2.78	858	1>	1.59	138	2>	.044	16.2	192	.59	.2	2>	67
123	GC623	4743.950	1429.720	1>	1>	50	18	364	22	10	.20	1.26	502	1>	.64	52	2>	.042	8.5	77	.49	.8	2>	44
124	GC624	4743.680	1429.900	1>	1>	68	16	371	28	10>	.29	1.73	637	1>	.92	65	2>	.053	14.2	104	.62	.8	2>	56
125	GC625	4743.640	1430.580	1>	1>	60	20	275	42	11	.26	2.48	960	1>	1.94	102	2>	.047	12.5	166	.81	.4	2>	80
126	GC626	4743.770	1431.100	1>	1>	58	29	279	42	24	.29	2.63	943	1>	1.98	115	2>	.045	8.0	175	.77	.4	2>	80
127	GC627	4743.560	1431.080	1>	1>	53	22	228	35	18	.26	1.62	872	1>	1.84	45	2>	.161	8.0	124	.63	.6	2>	86
128	GC628	4743.250	1430.200	1>	1>	68	15	269	27	17	.32	1.66	555	1>	.97	66	2>	.041	10.8	96	.48	1.0	3	54
129	GC629	4743.000	1430.430	1>	1>	38	29	264	21	10>	.19	2.04	1684	1>	.91	62	2>	.031	19.0	122	1.62	.4	2>	59
130	GC630	4743.120	1430.780	1>	1>	25	40	324	28	10	.04	3.78	2605	1>	1.50	94	2>	.046	17.3	204	3.01	.2>	2>	85
131	GC631	4742.850	1430.380	1>	1>	72	13	164	16	10>	.26	.76	283	1>	.51	27	2>	.030	8.1	57	.29	1.2	2>	35
132	GC632	4742.290	1430.670	1>	1>	88	15	137	18	10>	.36	.89	308	1>	.70	31	2>	.038	5.8	68	.31	1.0	2>	40
133	GC633	4742.120	1431.000	1>	1>	78	14	128	20	10>	.31	.82	338	1>	.75	28	2>	.038	5.1	72	.31	1.0	2>	40
134	GC634	4742.100	1431.380	2	1>	95	10	190	19	10>	.35	.85	286	1>	.58	30	2>	.029	4.9	63	.26	1.0	3	38
135	GC635	4742.180	1431.520	1>	1>	24	23	160	33	10>	.14	1.63	609	1>	1.41	43	2>	.046	10.6	140	.44	.2	2>	56
136	GC636	4744.100	1429.050	1>	1>	62	4	199	7	10>	.17	.30	99	1>	.14	20	6	.014	3.9	21	.16	2.4	2>	22
137	GC637	4743.850	1428.640	1>	1>	61	8	188	11	11	.22	.55	161	1>	.31	26	2>	.015	5.7	29	.20	1.2	2	29
138	GC638	4743.650	1428.440	3	1>	61	4	207	7	10>	.19	.20	60	1>	.09	29	4	.013	3.1	16	.15	1.6	2>	19
139	GC639	4742.900	1428.480	1>	1>	65	7	181	8	10>	.20	.31	99	1>	.15	19	6	.013	5.5	20	.17	1.6	2>	21
140	GC640	4742.400	1428.680	1>	1>	75	10	192	12	12	.24	.62	171	1>	.34	27	2>	.020	8.8	33	.24	1.4	2	31

Appendix 29

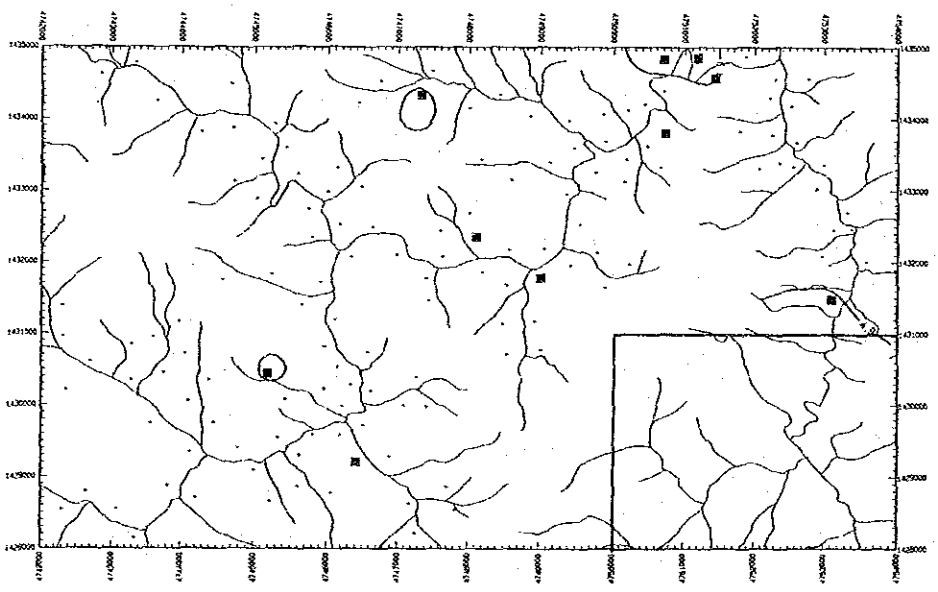
Distribution map of elements in Area C

Soil



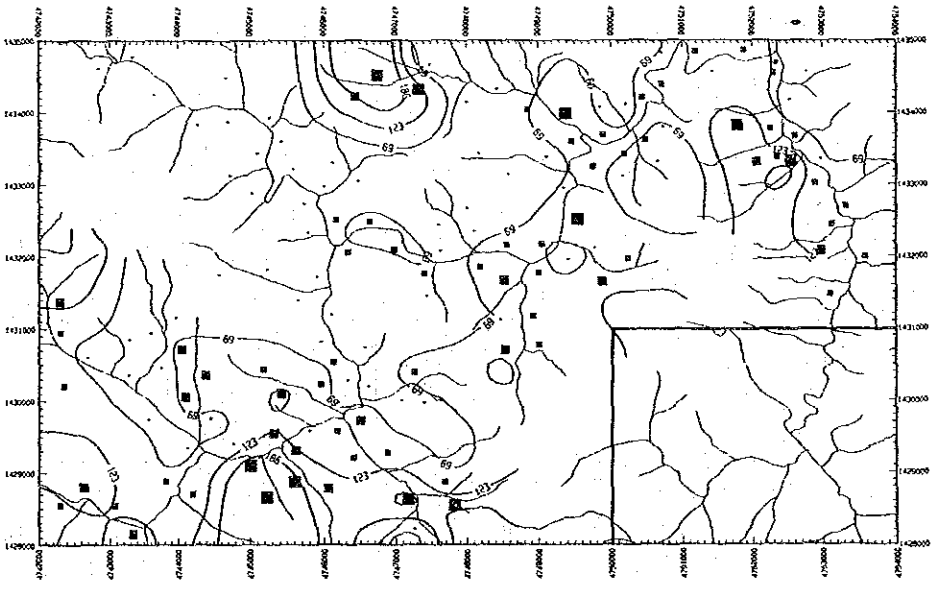
As

3.300



Au

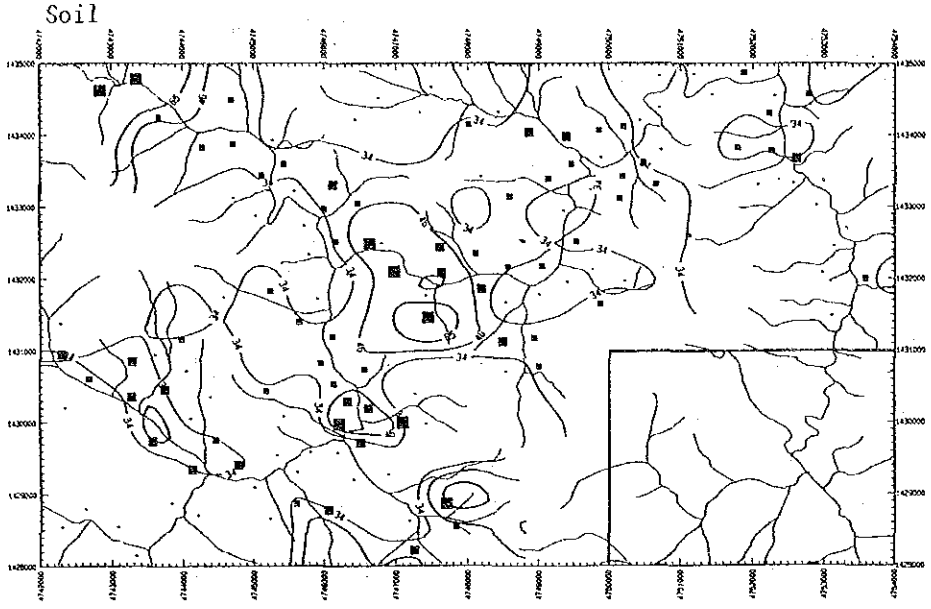
4.900



Ba

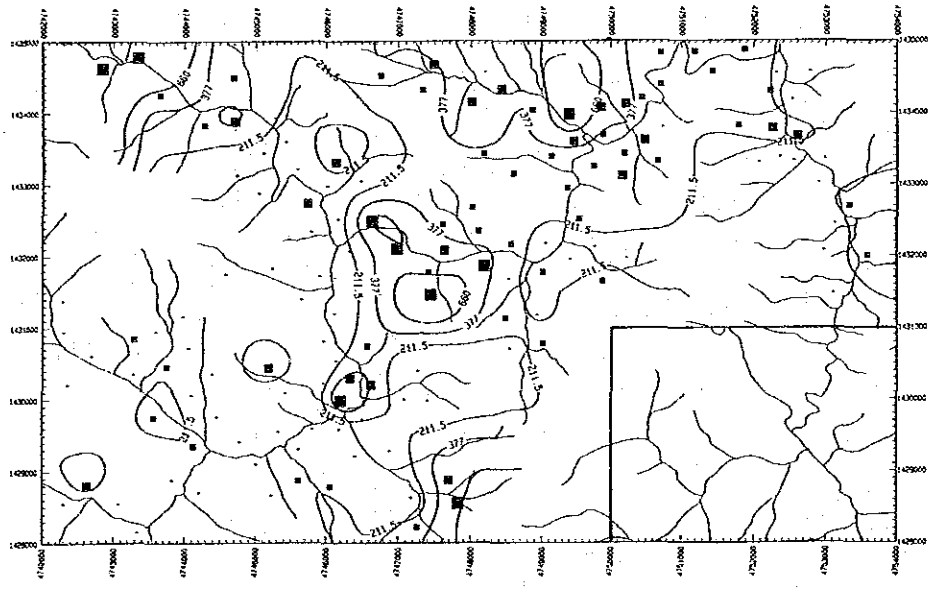
186.000
123.000
69.000

Soil



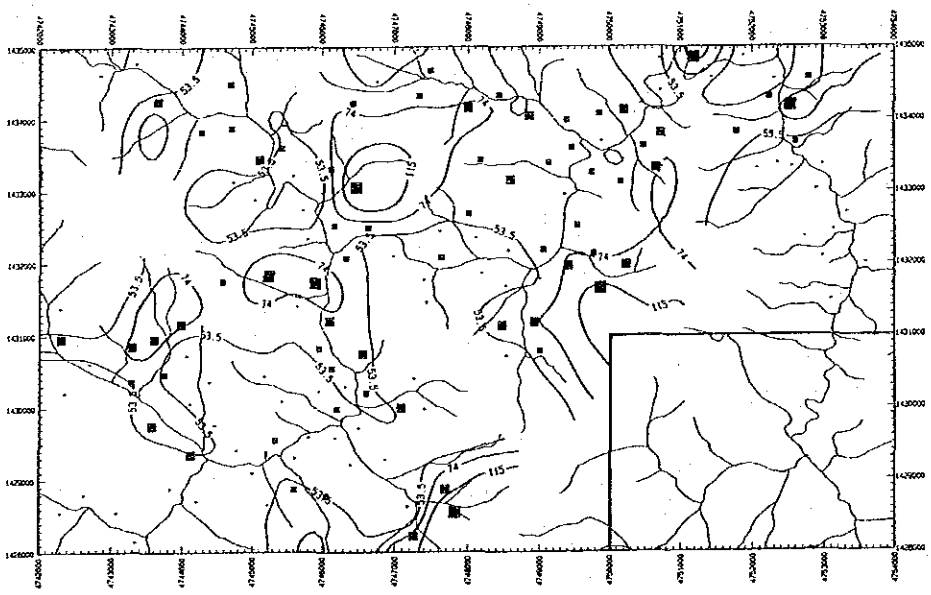
Co

65.000
46.000
34.000



Cr

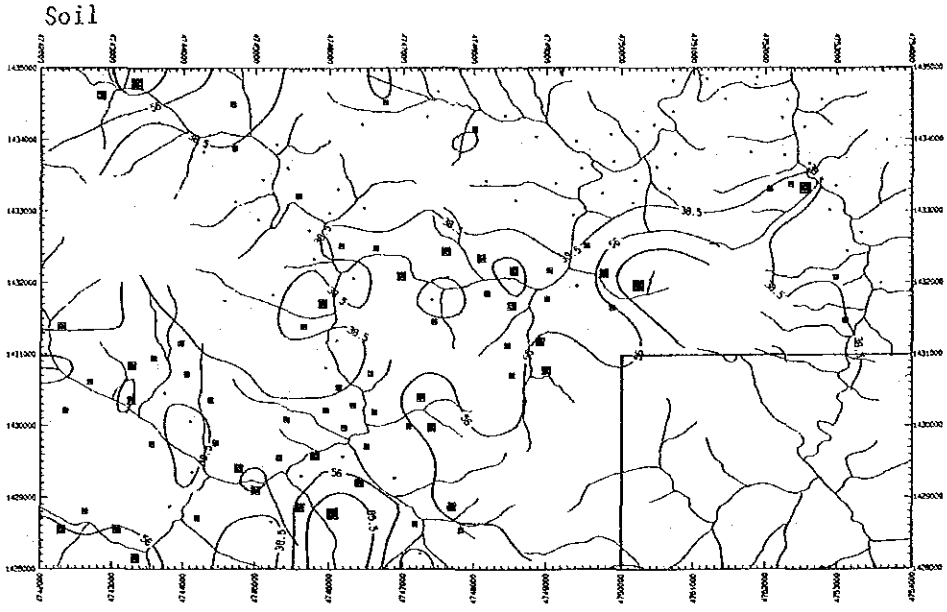
660.000
377.000
211.500

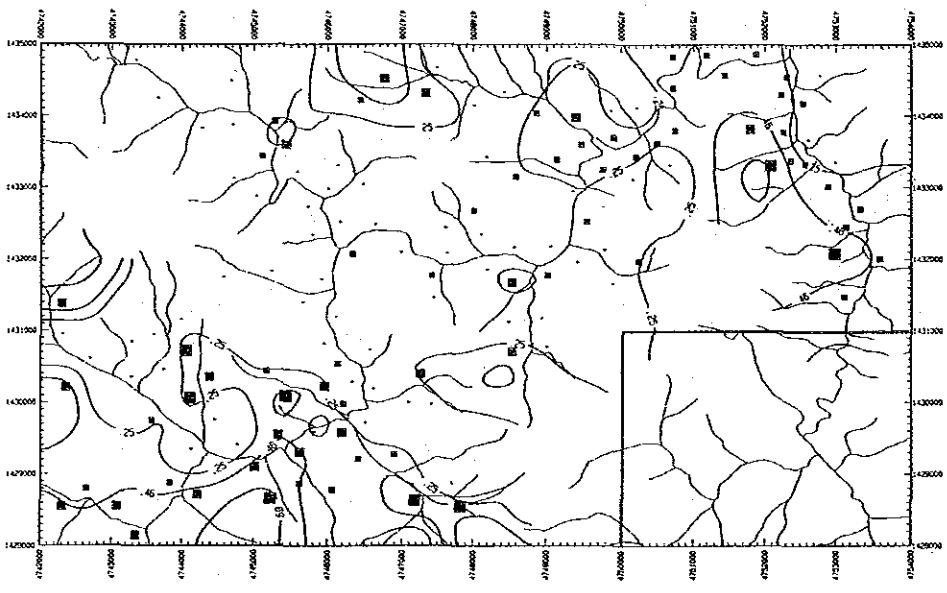


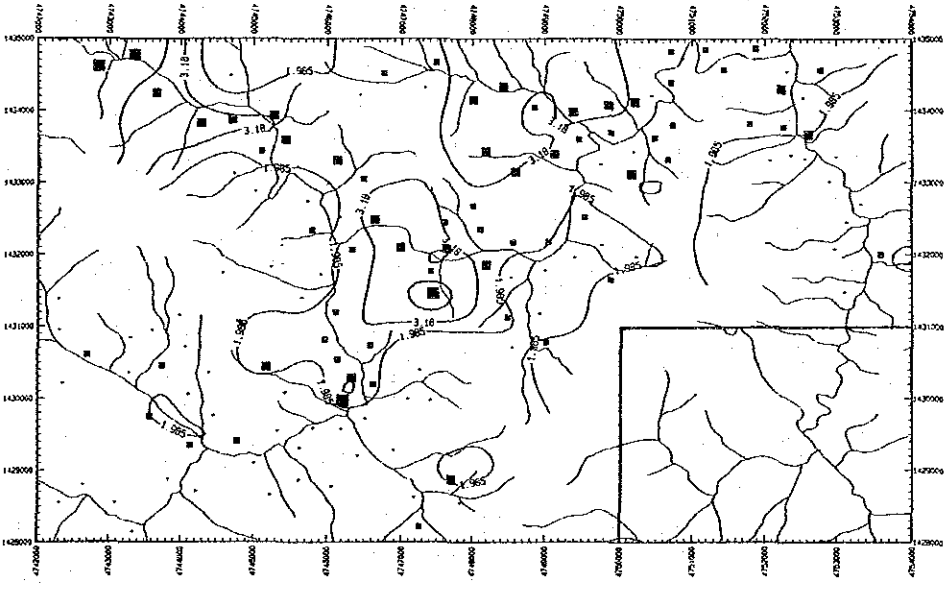
Cu

115.000
74.000
53.500

Soil







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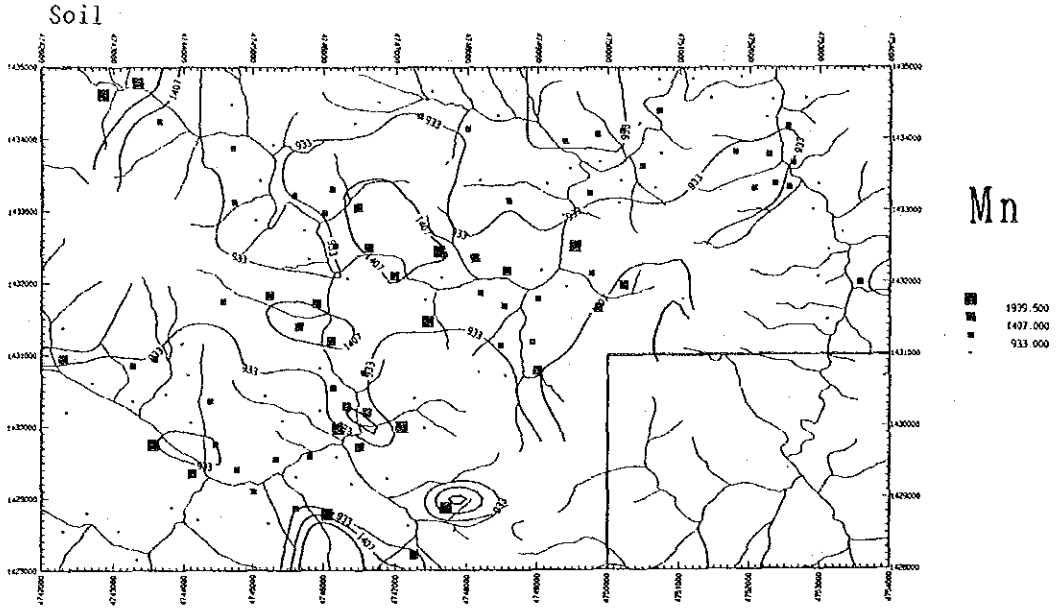
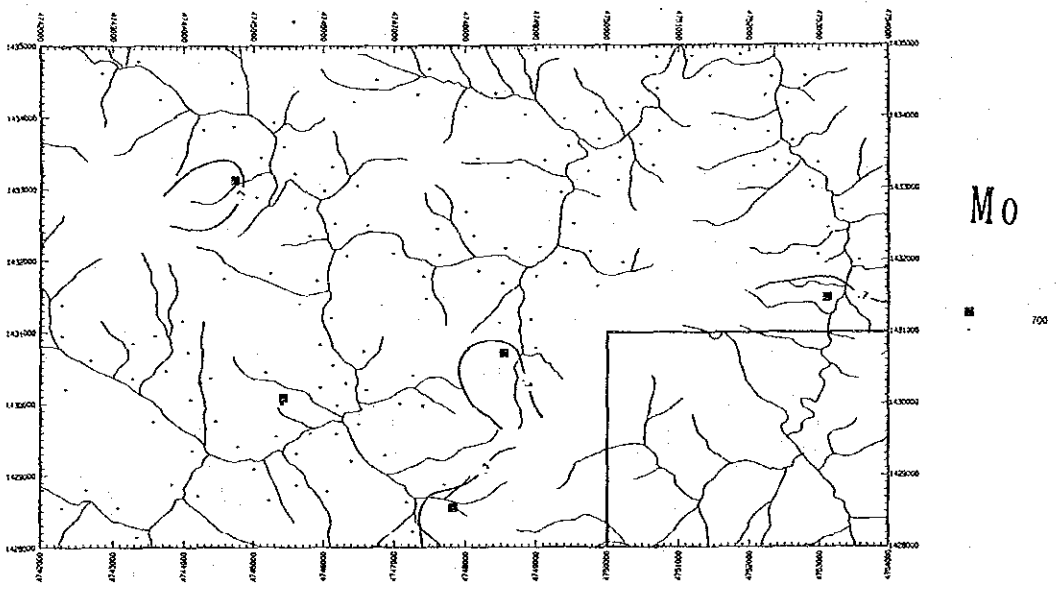
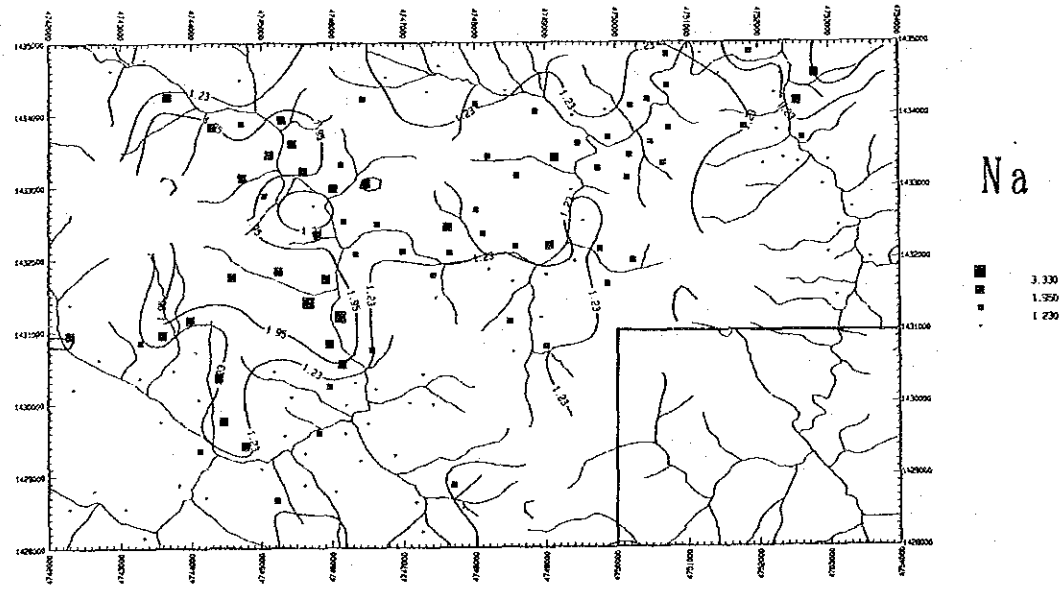
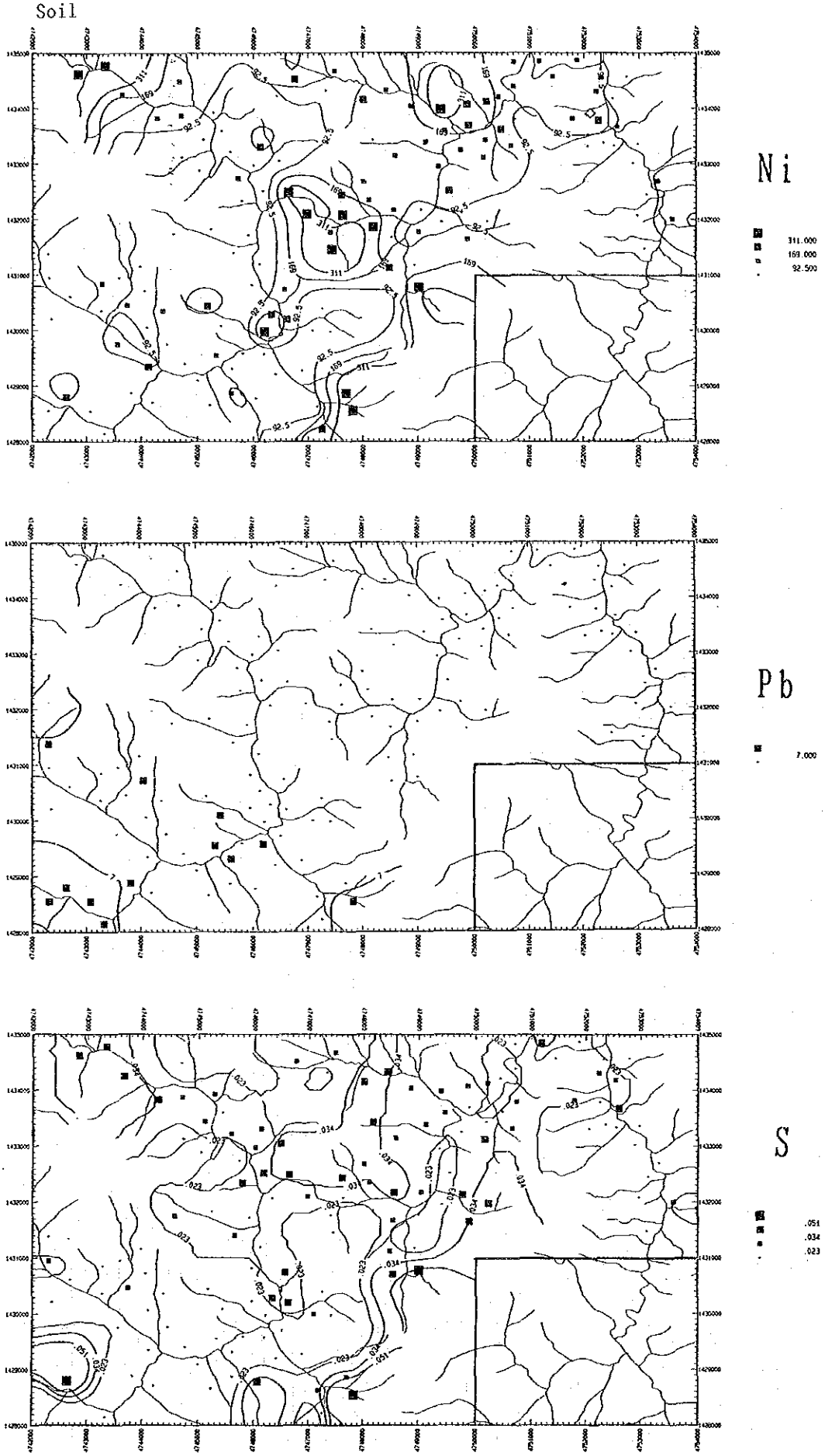






Soil



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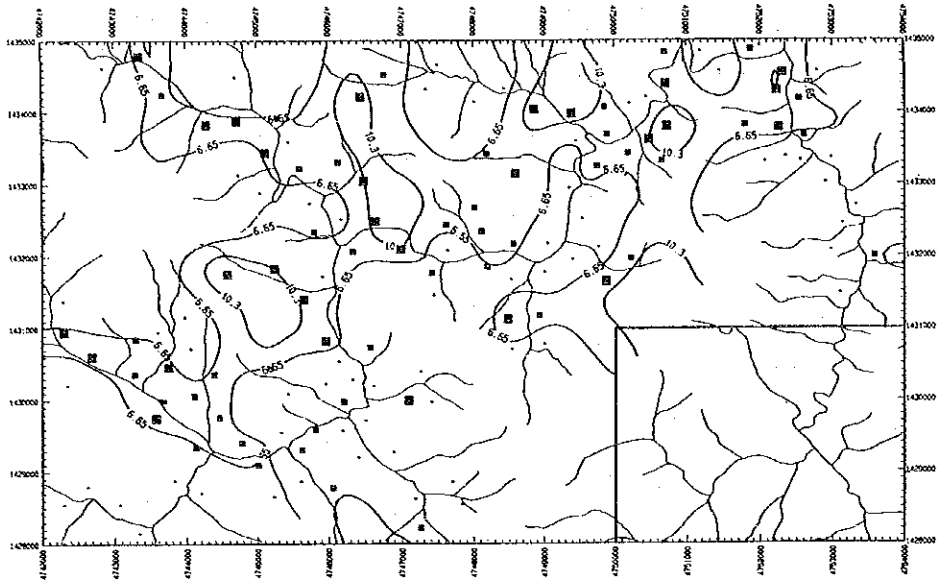
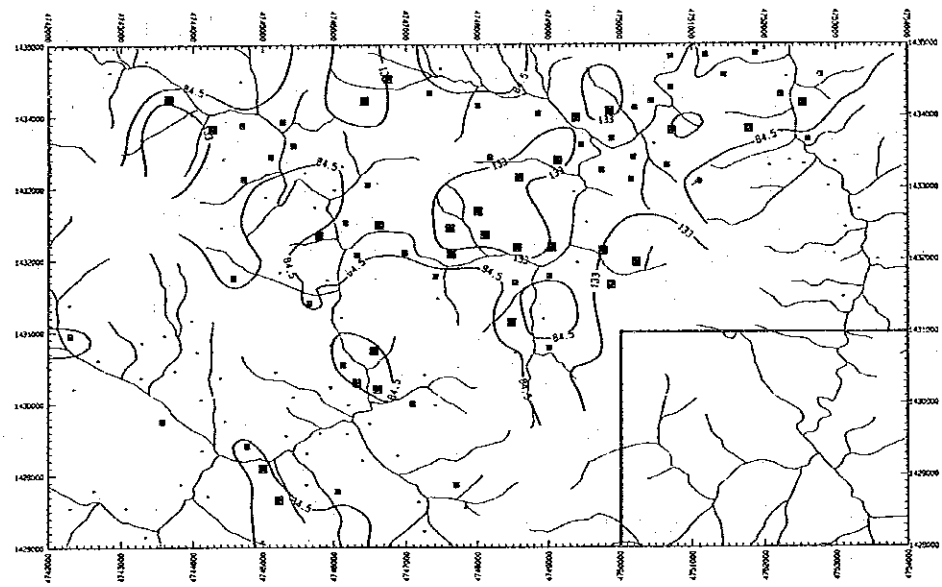
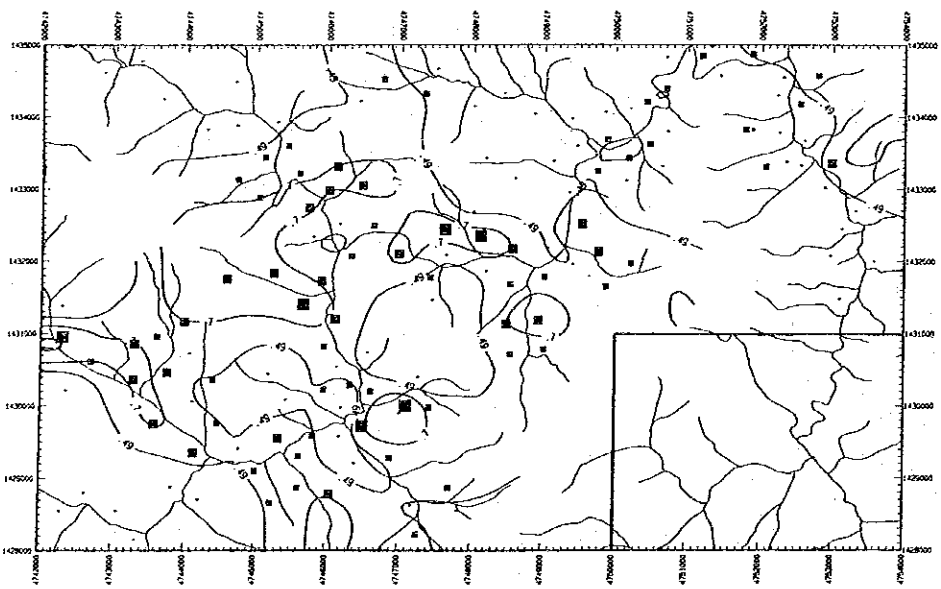
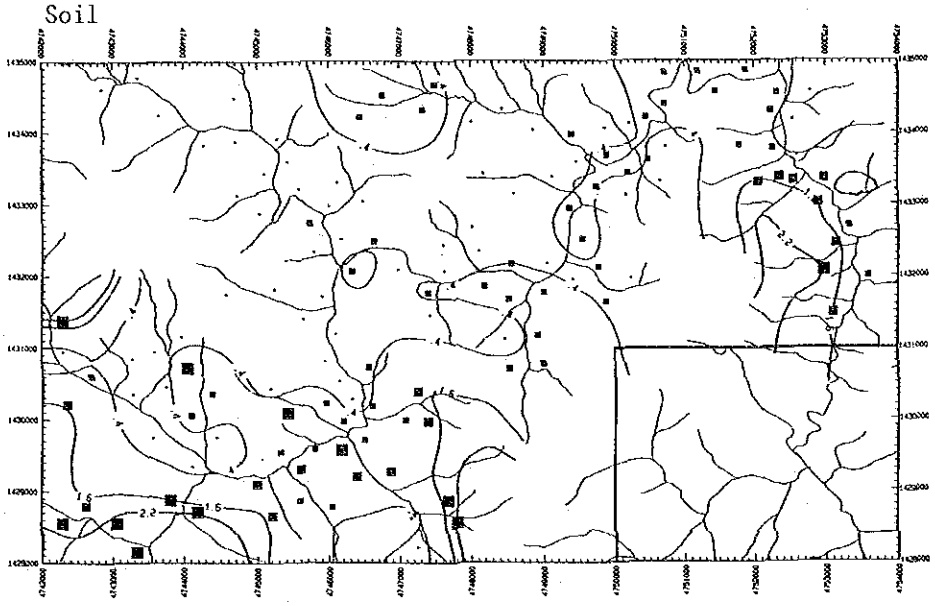
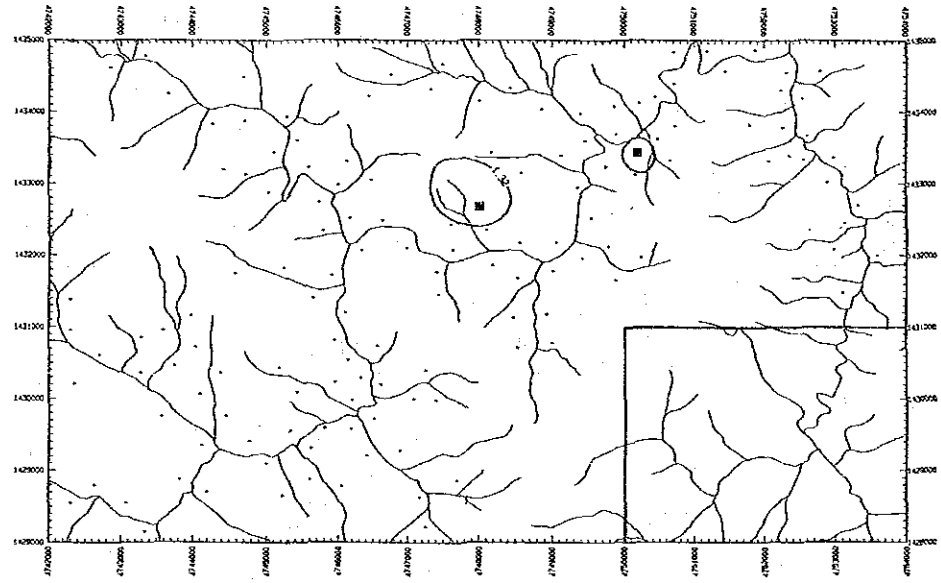


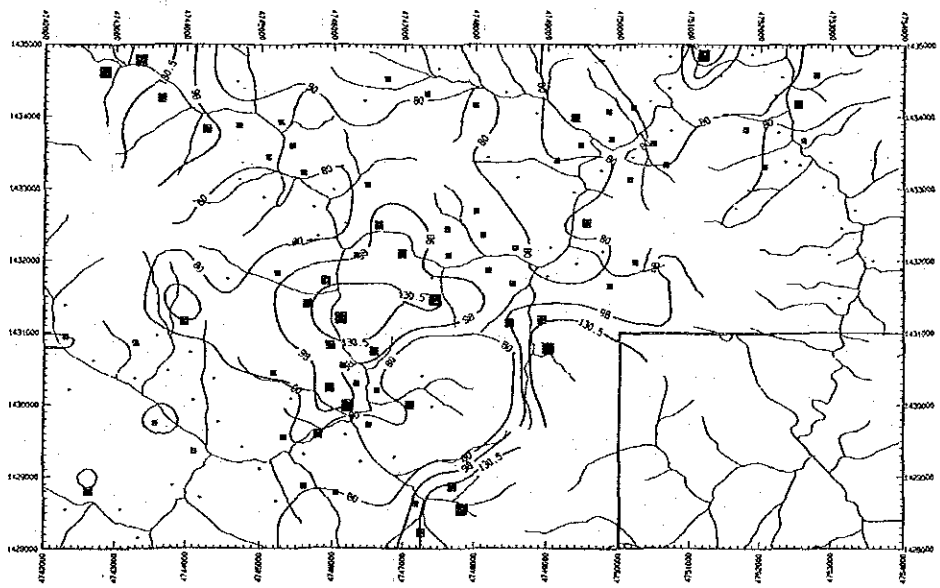




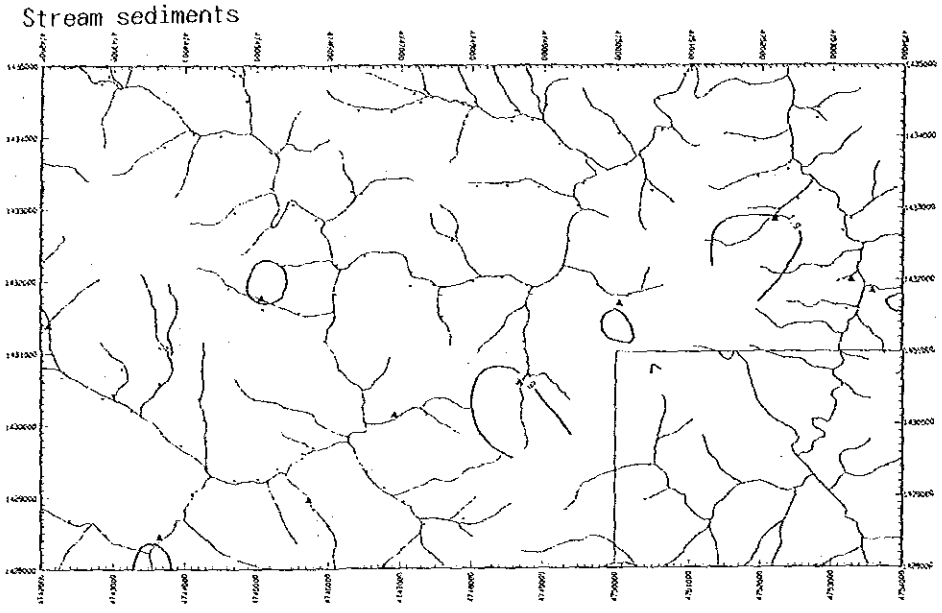
Soil





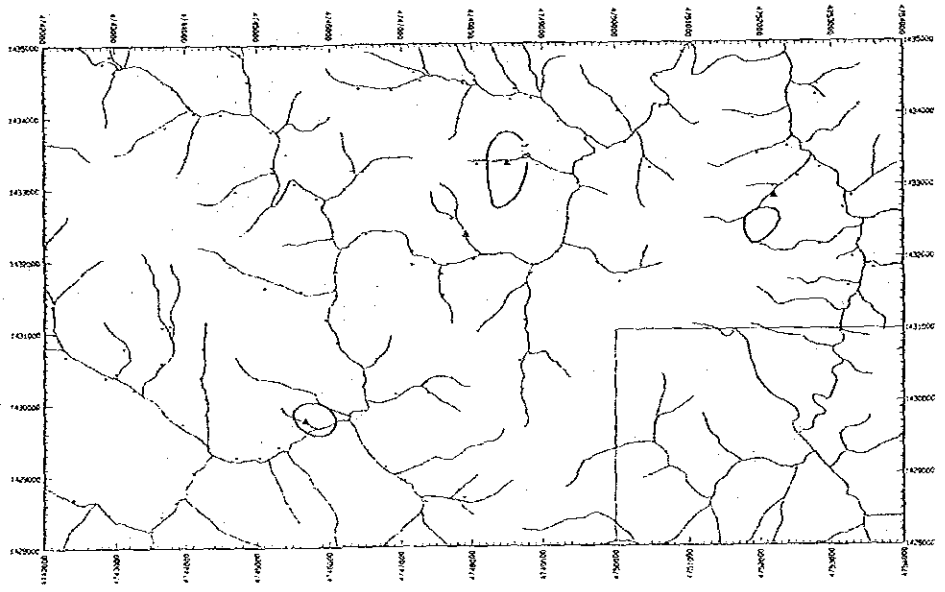


Stream sediments



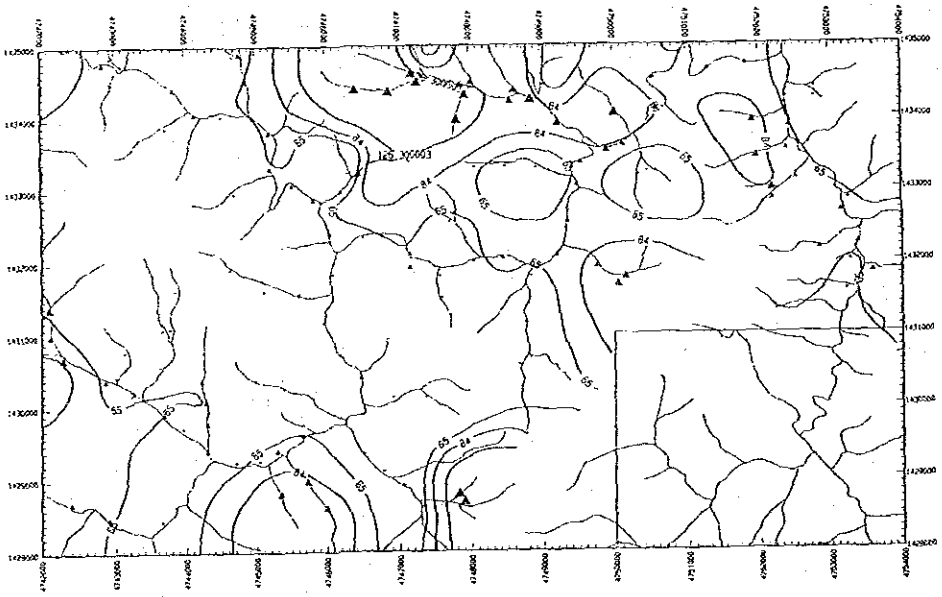
As

1.000



Au

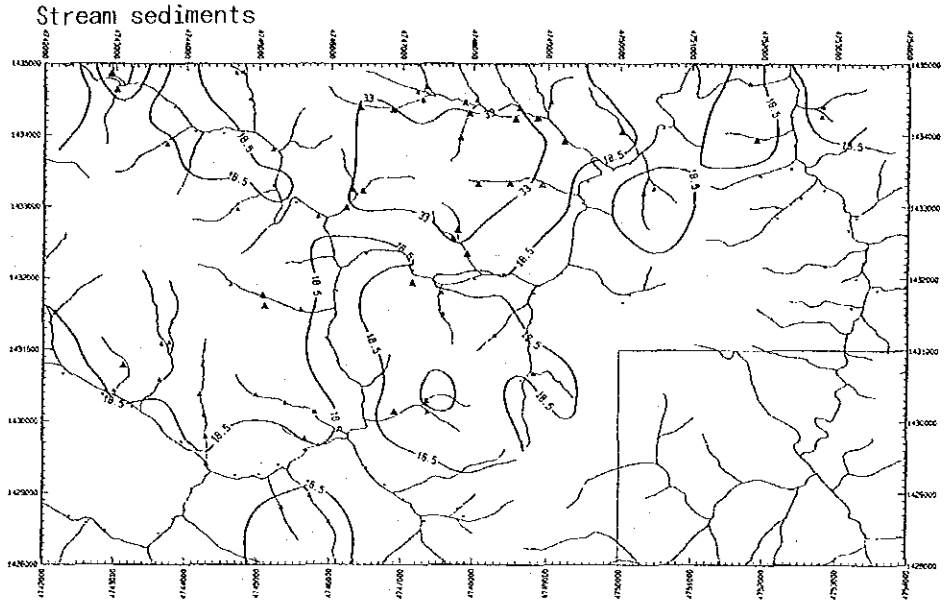
1.600



Ba

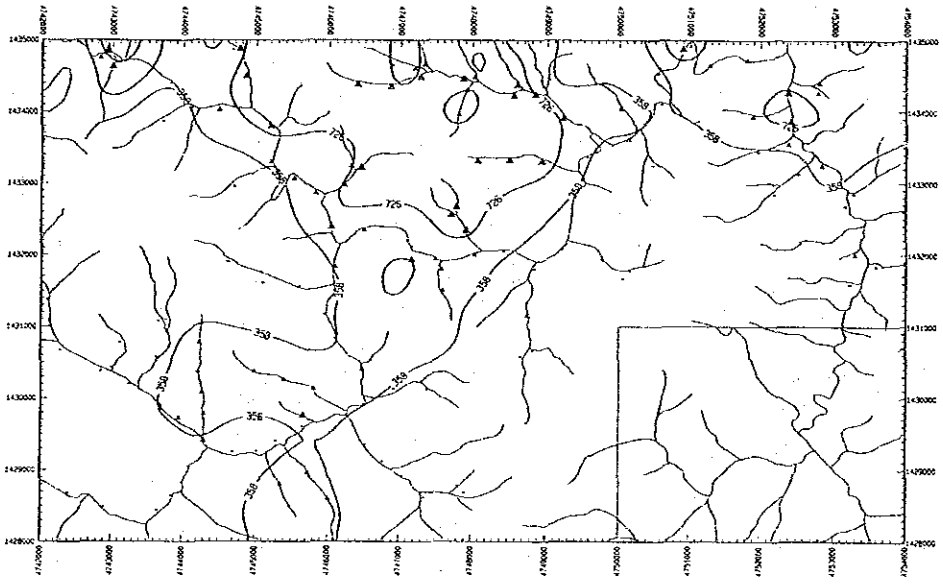
125.300
84.000
65.000

Stream sediments



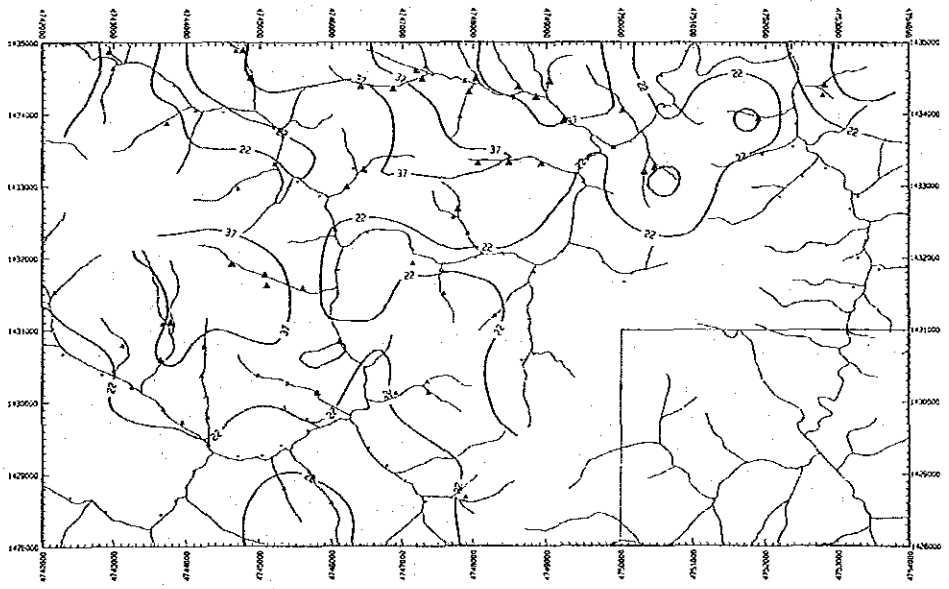
Co

33.000
18.500



Cr

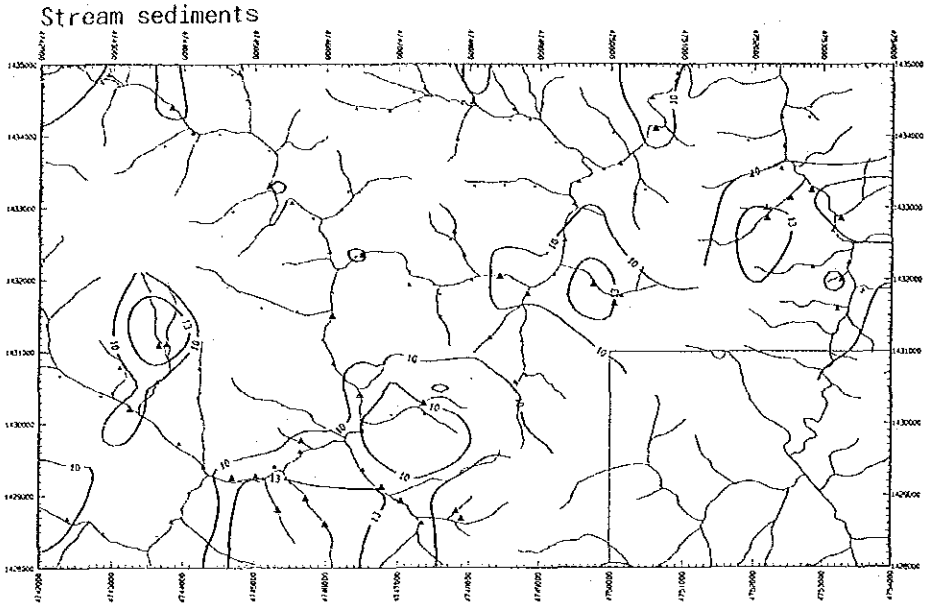
2268.000
726.000
358.000



Cu

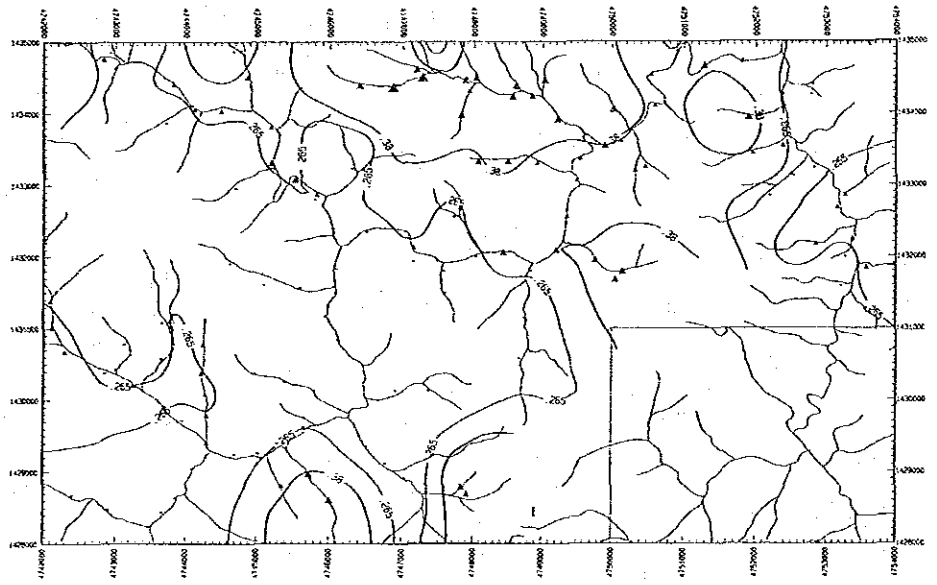
37.000
22.000

Stream sediments



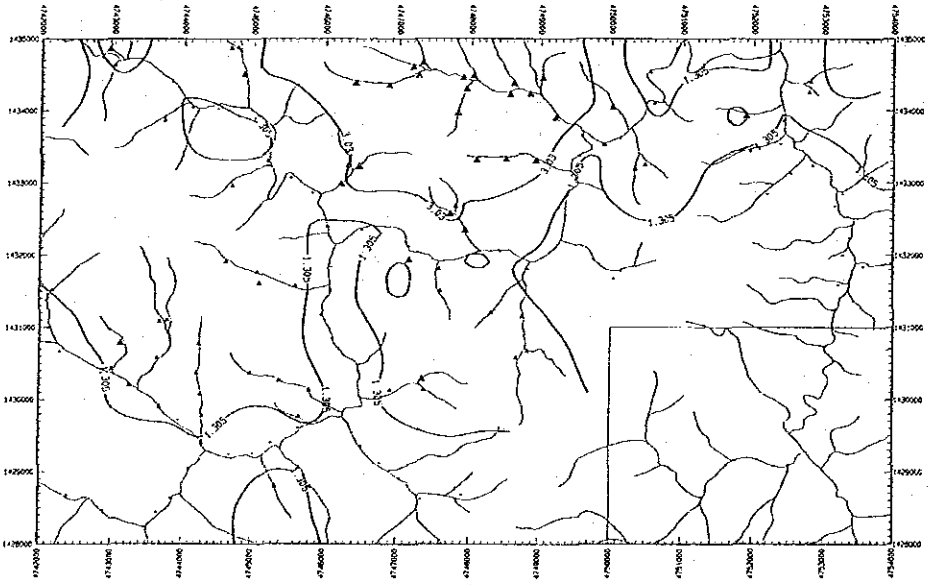
Hg

13.000
10.000



K

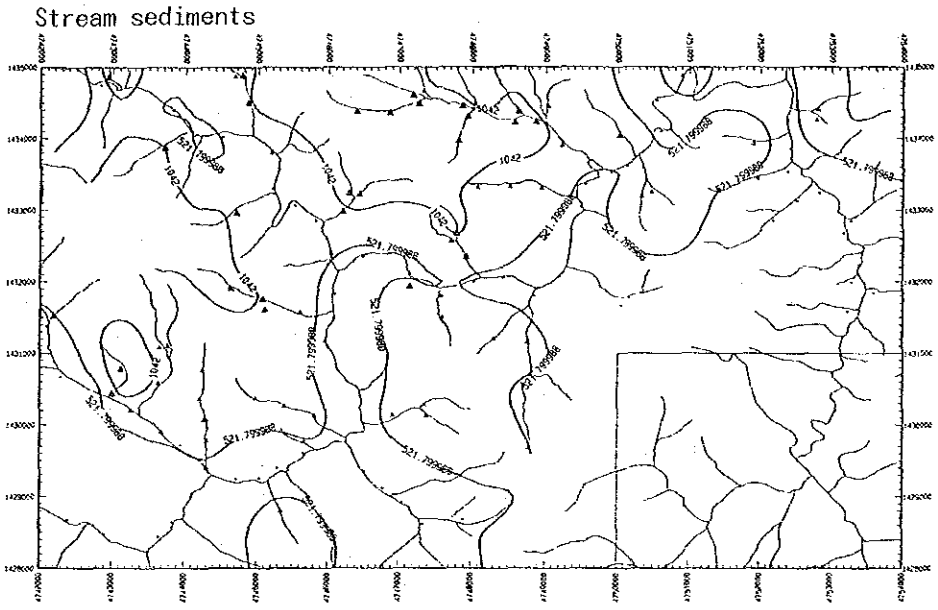
.753
.380
.265



Mg

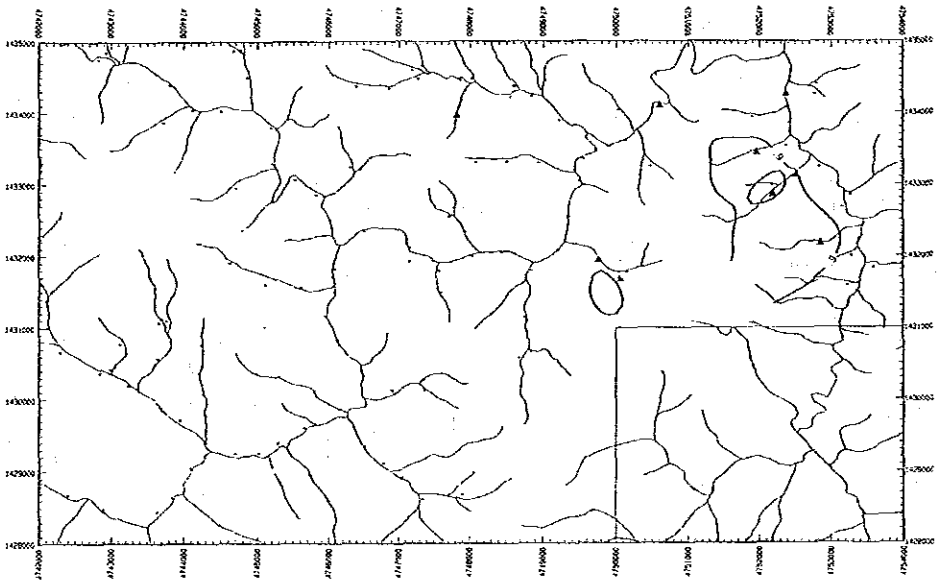
3.030
1.305

Stream sediments



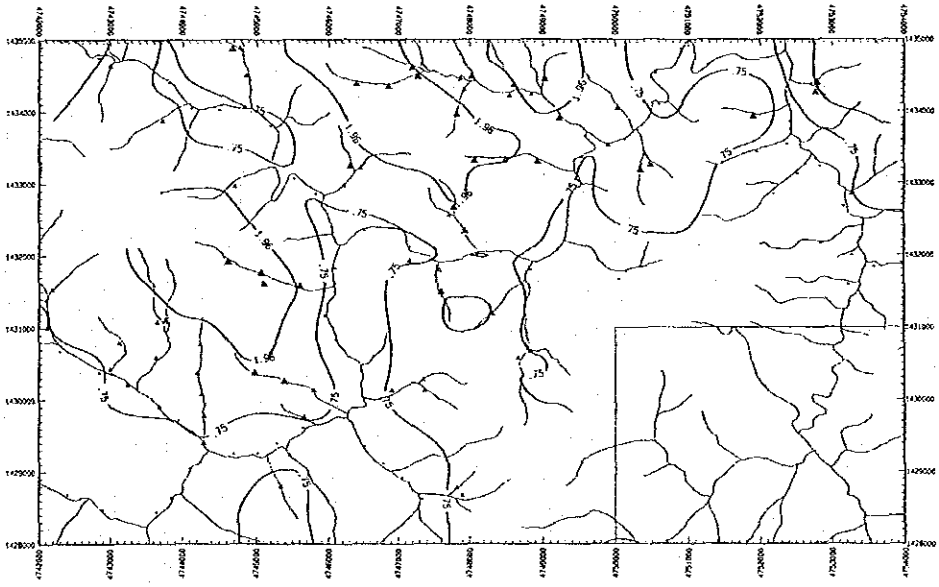
Mn

1042.000
521.600



Mo

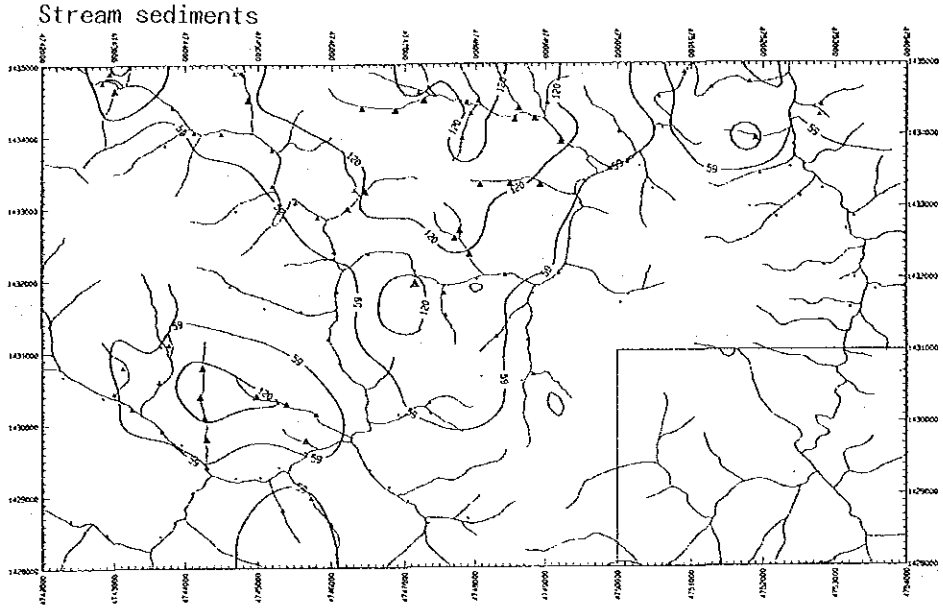
900



Na

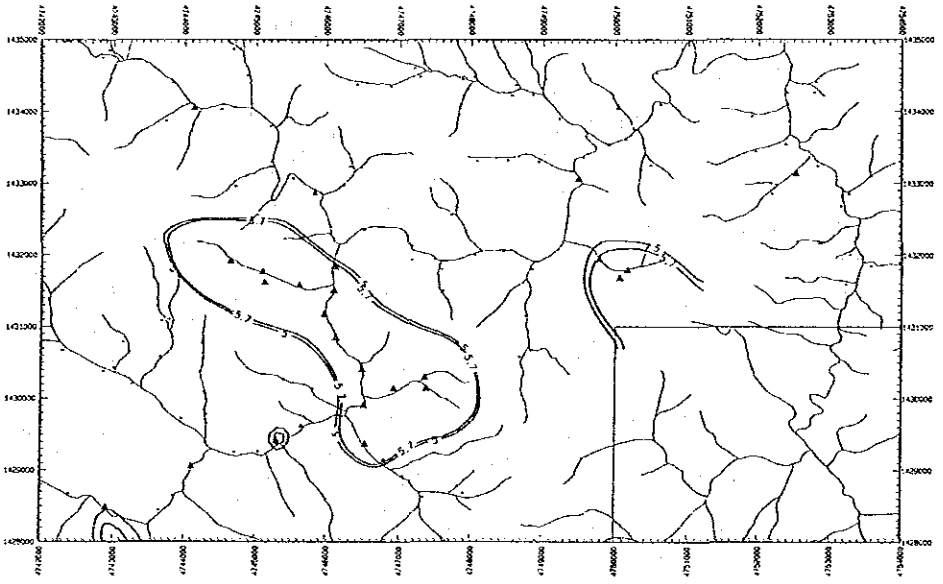
1.960
750

Stream sediments



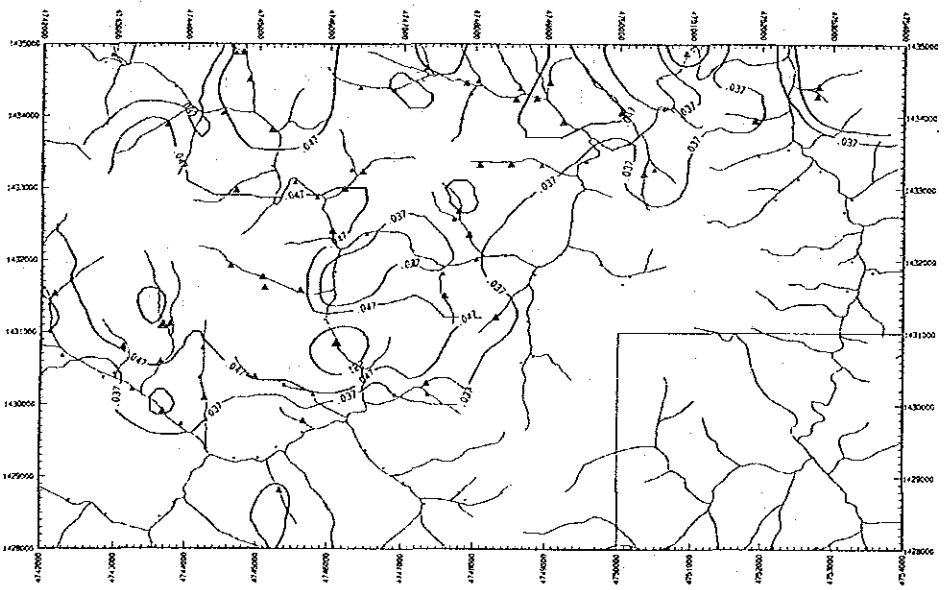
Ni

551.000
120.000
59.000



Pb

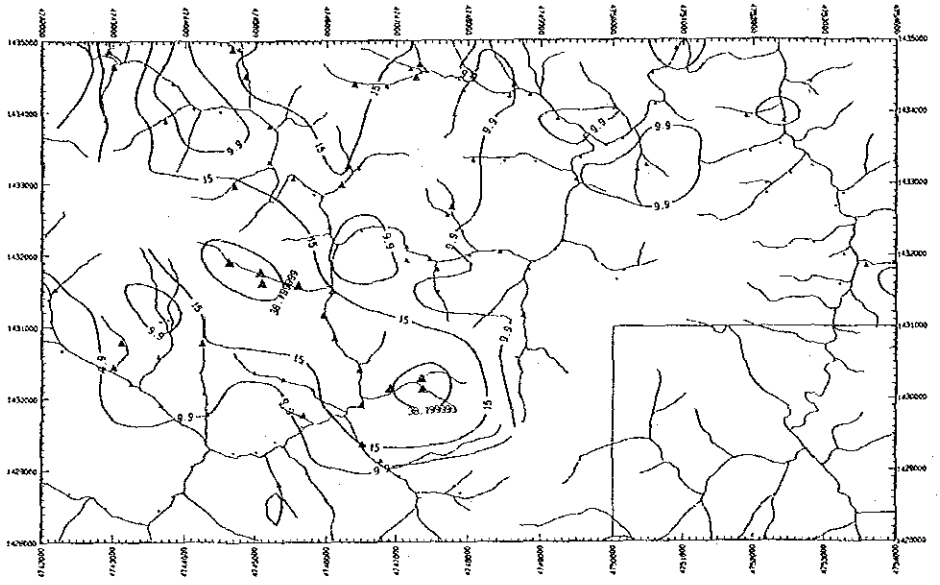
5.700
5.000



S

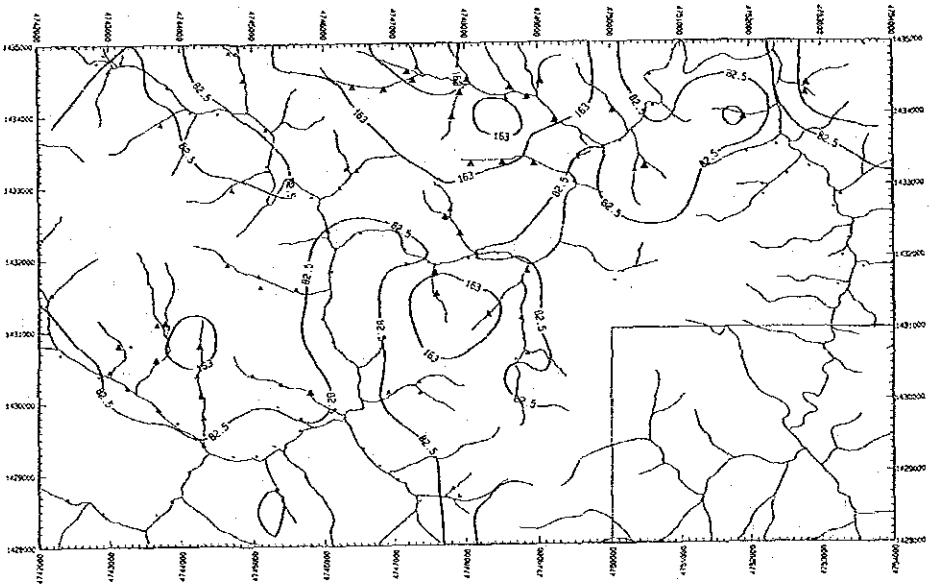
.122
.047
.037

Stream sediments



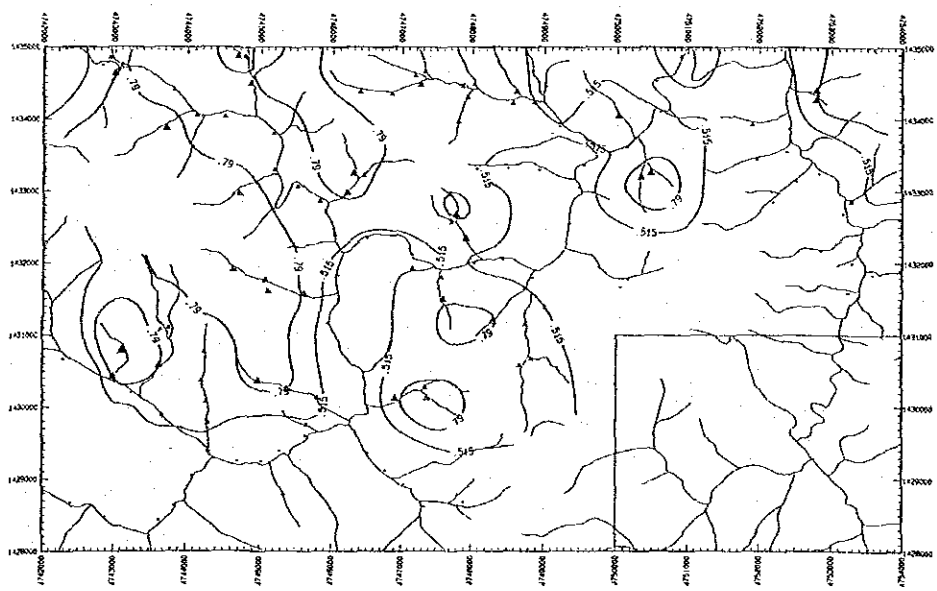
Sb

38.600
15.000
9.900



Sr

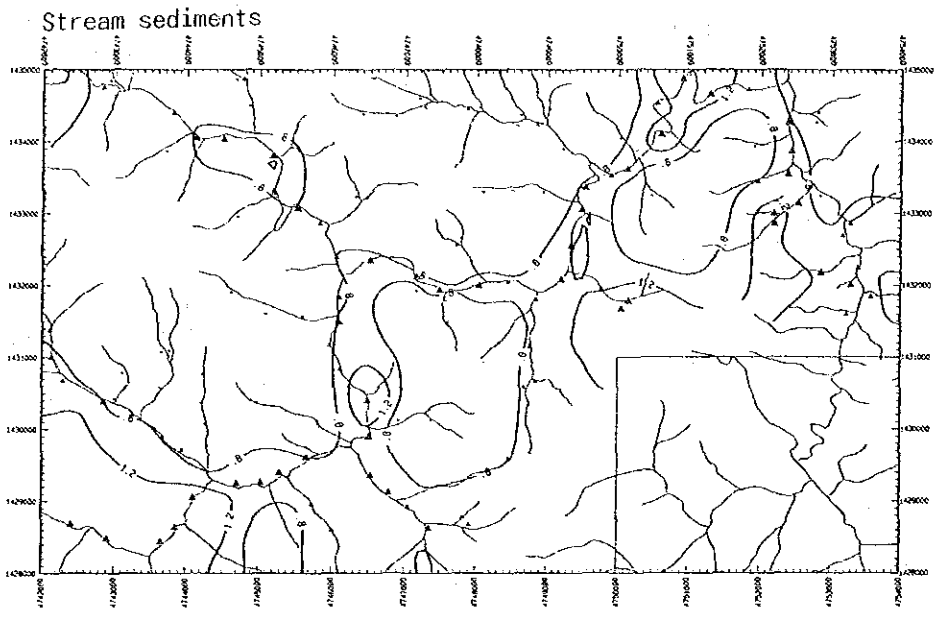
163.000
82.503



Ti

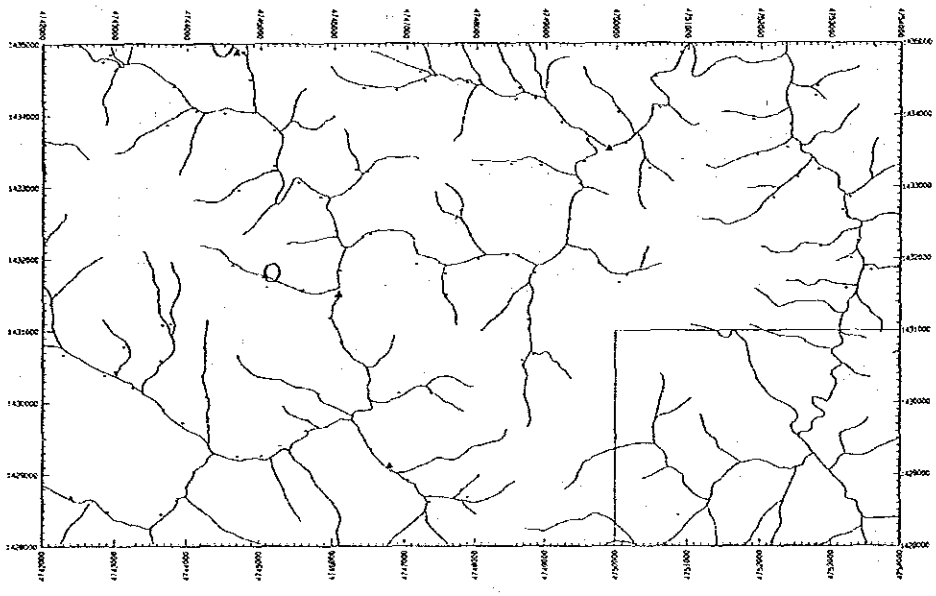
2.729
.790
.515

Stream sediments



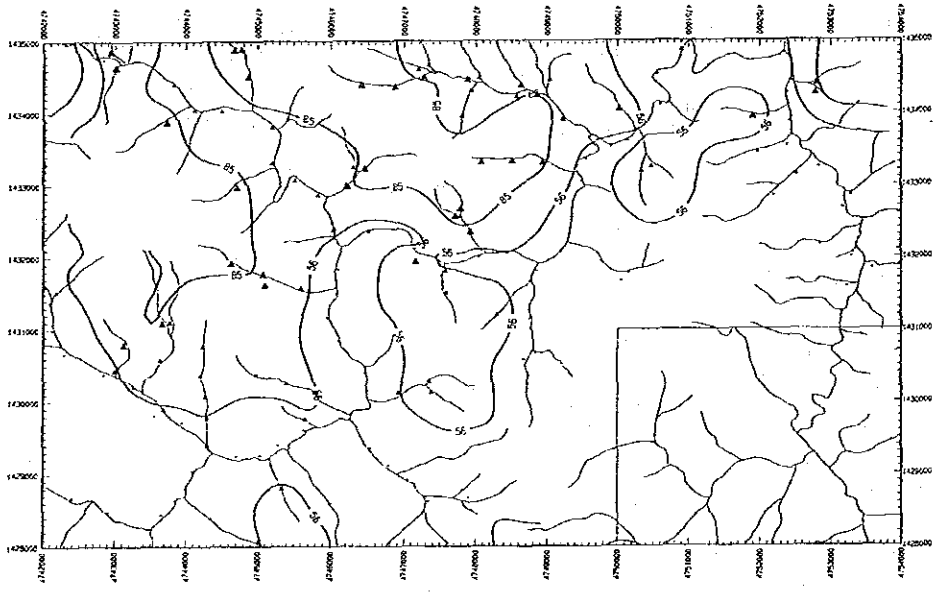
U

1.200
800



W

3.100



Zn

85.000
56.000

Appendix 30

List of soil geochemical samples
in Area D

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
1	GD001	1427.43	4770.20	S. Ulu Bole	amphi. schist	As	30	Gn.G.	R	C	M	W	Secondary forest
2	GD002	1427.14	4770.57	S. Ulu Bole	amphi. schist	As	25	Gn.G.	R	C	F	W	Secondary forest
3	GD003	1427.91	4770.78	S. Ulu Bole	amphi. schist	As	25	B.	R	C	M	W	Secondary forest
4	GD004	1427.48	4771.02	S. Ulu Bole	amphi. schist	As	30	B.	R	C	M	W	Secondary forest
5	GD005	1427.71	4771.19	S. Ulu Bole	—	As	25	D.B.	R	C	F	W	Secondary forest
6	GD006	1427.75	4771.75	S. Ulu Bole	amphi. schist	As	25	B.	R	C	F	W	Secondary forest
7	GD007	1427.47	4771.56	S. Ulu Bole	amphi. schist	As	30	B.G.	F	C	M	W	Secondary forest
8	GD008	1427.03	4771.30	S. Ulu Bole	—	As	30	D.B.	R	C	F	W	Secondary forest
9	GD009	1427.40	4772.16	S. Ulu Bole	—	As	30	B.G.	F	C	M	W	Secondary forest
10	GD010	1427.85	4772.50	S. Ulu Bole	amphi. schist	As	30	B.	F	C	M	W	Secondary forest
11	GD011	1427.72	4772.85	S. Ulu Bole	—	Di	25	D.B.	F	C	M	W	Secondary forest
12	GD012	1427.20	4772.55	S. Ulu Bole	—	As	25	D.B.	F	C	M	W	Secondary forest
13	GD013	1427.29	4773.16	S. Ulu Bole	—	As	25	D.B.	F	C	M	W	Secondary forest
14	GD014	1427.84	4773.82	S. Ulu Bole	—	Di	25	B.	R	C	M	W	Secondary forest
15	GD015	1427.46	4773.78	S. Ulu Bole	—	Q_2	25	D.B.	R	C	F	W	Cocoa plantation
16	GD016	1427.02	4773.70	S. Ulu Bole	—	Q_2	30	D.B.	R	C	F	W	Cocoa plantation
17	GD017	1427.64	4774.22	S. Ulu Bole	—	Di	25	B.	R	C	S	W	Cocoa plantation
18	GD018	1427.27	4774.39	S. Ulu Bole	—	Q_2	30	D.B.	R	C	F	W	Cocoa plantation
19	GD019	1427.58	4774.88	S. Ulu Bole	—	Di	30	D.G.	R	C	M	W	Cocoa plantation
20	GD020	1427.03	4774.88	S. Ulu Bole	—	Q_2	30	B.	R	C	F	W	Cocoa plantation
21	GD021	1426.71	4765.30	S. Ulu Bole	—	As	25	Y.B.	F	C	M	W	Primary forest
22	GD022	1426.85	4765.86	S. Ulu Bole	—	As	30	B.	F	C	S	W	Primary forest
23	GD023	1426.37	4765.09	S. Ulu Bole	—	As	25	B.	F	C	S	W	Primary forest
24	GD024	1426.47	4765.63	S. Ulu Bole	—	As	25	B.	F	C	S	W	Primary forest
25	GD025	1426.53	4766.16	S. Ulu Bole	—	As	25	B.	F	C	S	W	Primary forest
26	GD026	1426.84	4766.57	S. Ulu Bole	amphi. schist	As	25	Y.B.	M	C	F	W	Secondary forest
27	GD027	1426.11	4766.27	S. Ulu Bole	—	As	25	Y.B.	F	C	S	W	Primary forest
28	GD028	1426.26	4766.92	S. Ulu Bole	—	As	30	Y.B.	F	C	F	W	Secondary forest
29	GD029	1426.65	4767.04	S. Ulu Bole	—	As	30	B.	R	C	M	W	Secondary forest
30	GD030	1426.08	4767.25	S. Ulu Bole	—	As	30	R.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)

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
31	GD031	1426.42	4767.48	S. Ulu Bole	amphi. schist	As	25	B.	R	C	M	W	Secondary forest
32	GD032	1426.75	4767.78	S. Ulu Bole	—	As	35	Y.B.	R	C	F	W	Secondary forest
33	GD033	1426.43	4768.07	S. Ulu Bole	—	As	30	Y.B.	R	C	F	W	Secondary forest
34	GD034	1426.70	4768.42	S. Ulu Bole	—	As	30	B.	F	C	M	W	Secondary forest
35	GD035	1426.07	4768.34	S. Ulu Bole	—	As	30	B.	F	C	M	W	Secondary forest
36	GD036	1426.09	4768.76	S. Ulu Bole	schist	As	25	L.B.	F	C	F	W	Secondary forest
37	GD037	1426.51	4769.11	S. Ulu Bole	amphi. schist	As	25	B.	R	C	M	W	Secondary forest
38	GD038	1426.08	4769.17	S. Ulu Bole	amphi. schist	As	25	Y.B.	F	C	M	W	Secondary forest
39	GD039	1426.88	4769.50	S. Ulu Bole	amphi. schist	As	25	B.G.	F	C	M	W	Secondary forest
40	GD040	1426.46	4769.88	S. Ulu Bole	amphi. schist	As	25	Gn.G.	F	C	F	W	Secondary forest
41	GD041	1426.85	4770.12	S. Ulu Bole	—	As	30	B.	R	C	M	W	Secondary forest
42	GD042	1426.05	4770.15	S. Ulu Bole	—	As	25	B.G.	R	C	M	W	Secondary forest
43	GD043	1426.42	4770.58	S. Ulu Bole	—	As	30	L.B.	R	C	F	W	Secondary forest
44	GD044	1426.87	4770.90	S. Ulu Bole	amphi. schist	As	30	D.B.	R	C	M	W	Secondary forest
45	GD045	1426.28	4771.12	S. Ulu Bole	—	As	30	D.B.	R	C	M	W	Secondary forest
46	GD046	1426.59	4771.37	S. Ulu Bole	—	As	30	L.B.	R	C	M	W	Secondary forest
47	GD047	1426.89	4771.74	S. Ulu Bole	amphi. schist	As	25	Y.B.	R	C	F	W	Secondary forest
48	GD048	1426.38	4771.89	S. Ulu Bole	amphi. schist	As	30	D.B.	F	C	M	W	Secondary forest
49	GD049	1426.92	4772.37	S. Ulu Bole	—	As	30	L.B.	R	C	S	W	Secondary forest
50	GD050	1426.21	4772.33	S. Ulu Bole	—	As	30	D.B.	R	C	M	W	Secondary forest
51	GD051	1426.85	4772.73	S. Ulu Bole	schist	As	25	B.G.	R	C	M	W	Secondary forest
52	GD052	1426.50	4772.82	S. Ulu Bole	schist	As	25	B.	F	C	F	W	Secondary forest
53	GD053	1426.76	4773.26	S. Ulu Bole	schist	As	25	B.	F	C	M	W	Secondary forest
54	GD054	1426.38	4773.25	S. Ulu Bole	schist	As	25	L.B.	F	C	M	W	Secondary forest
55	GD055	1426.57	4773.72	S. Ulu Bole	schist	As	30	L.B.	R	C	M	W	Secondary forest
56	GD056	1426.18	4773.63	S. Ulu Bole	—	As	25	L.B.	F	C	M	W	Secondary forest
57	GD057	1426.82	4774.17	S. Ulu Bole	—	As	25	D.B.	M	S	M	W	Secondary forest
58	GD058	1426.14	4774.16	S. Ulu Bole	—	Csba	25	D.B.	F	C	M	W	Secondary forest
59	GD059	1426.32	4774.53	S. Ulu Bole	tuff breccia	Csba	25	D.B.	F	C	M	W	Secondary forest
60	GD060	1426.69	4774.93	S. Ulu Bole	—	Gs	30	D.G.	R	C	F	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)

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
61	GD061	1425.56	4765.33	S. Ulu Bole	—	As	25	B.	F	C	S	W	Primary forest
62	GD062	1425.16	4765.32	S. Ulu Bole	—	As	30	B.	F	C	S	W	Primary forest
63	GD063	1425.64	4765.82	S. Ulu Bole	—	As	30	Y.B.	F	C	M	W	Primary forest
64	GD064	1425.19	4765.72	S. Ulu Bole	—	As	25	B.	F	C	S	W	Primary forest
65	GD065	1425.58	4766.20	S. Ulu Bole	—	As	30	Y.B.	F	C	S	W	Primary forest
66	GD066	1425.17	4766.12	S. Ulu Bole	—	As	25	B.	F	C	S	W	Primary forest
67	GD067	1425.46	4766.75	S. Ulu Bole	—	As	30	G.B.	F	C	S	W	Cocoa plantation
68	GD068	1425.03	4766.86	S. Ulu Bole	—	As	25	G.B.	M	C	S	W	Cocoa plantation
69	GD069	1425.27	4767.17	S. Ulu Bole	—	As	30	B.	R	C	S	W	Cocoa plantation
70	GD070	1425.93	4767.74	S. Ulu Bole	—	As	25	Y.B.	R	C	F	W	Secondary forest
71	GD071	1425.15	4767.57	S. Ulu Bole	amphi. schist	As	30	B.	R	C	S	W	Cocoa plantation
72	GD072	1425.05	4767.90	S. Ulu Bole	—	As	25	Y.B.	F	C	S	W	Secondary forest
73	GD073	1425.65	4768.12	S. Ulu Bole	—	As	30	L.B.	R	C	M	W	Secondary forest
74	GD074	1425.68	4768.87	S. Ulu Bole	—	As	30	Y.B.	F	C	S	W	Secondary forest
75	GD075	1425.10	4768.43	S. Ulu Bole	amphi. schist	As	25	Y.B.	F	C	M	W	Secondary forest
76	GD076	1425.30	4768.94	S. Ulu Bole	—	As	30	Y.B.	F	C	M	W	Secondary forest
77	GD077	1425.61	4769.24	S. Ulu Bole	amphi. schist	As	25	Y.B.	R	C	M	W	Secondary forest
78	GD078	1425.00	4769.19	S. Ulu Bole	—	As	30	Y.B.	F	C	M	W	Secondary forest
79	GD079	1425.75	4769.79	S. Ulu Bole	amphi. schist	As	30	Y.B.	F	C	S	W	Secondary forest
80	GD080	1425.32	4769.87	S. Ulu Bole	—	As	30	Y.B.	F	C	S	W	Secondary forest
81	GD081	1425.52	4770.40	S. Ulu Bole	—	As	35	R.B.	R	C	F	W	Secondary forest
82	GD082	1425.03	4770.20	S. Ulu Bole	schist	As	25	B.	R	C	M	W	Secondary forest
83	GD083	1425.83	4770.86	S. Ulu Bole	—	As	25	B.	R	C	M	W	Secondary forest
84	GD084	1425.12	4770.81	S. Ulu Bole	—	As	30	Y.B.	F	C	M	W	Secondary forest
85	GD085	1425.28	4771.29	S. Ulu Bole	—	As	35	L.B.	R	C	M	W	Secondary forest
86	GD086	1425.90	4771.45	S. Ulu Bole	—	As	30	D.B.	R	C	M	W	Secondary forest
87	GD087	1425.62	4771.82	S. Ulu Bole	—	As	30	D.B.	R	C	M	W	Secondary forest
88	GD088	1425.02	4771.68	S. Ulu Bole	—	As	30	B.	R	C	S	W	Cocoa plantation
89	GD089	1425.72	4772.25	S. Ulu Bole	—	As	25	B.G.	F	C	S	W	Secondary forest
90	GD090	1425.27	4772.09	S. Ulu Bole	—	As	30	B.	F	C	S	W	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)

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
91	GD091	1425.18	4772.57	S. Ulu Bole	—	P_4Km	30	L.B.	R	C	S	W	Cocoa plantation
92	GD092	1425.75	4772.88	S. Ulu Bole	—	As	30	B.	R	C	M	W	Cocoa plantation
93	GD093	1425.02	4773.25	S. Ulu Bole	—	Gs	30	L.B.	R	C	M	W	Secondary forest
94	GD094	1425.62	4773.40	S. Ulu Bole	—	Csba	30	D.B.	F	C	S	W	Secondary forest
95	GD095	1425.86	4773.86	S. Ulu Bole	—	Csch	30	Y.B.	F	C	S	W	Secondary forest
96	GD096	1425.30	4773.82	S. Ulu Bole	—	Gs	30	D.B.	R	C	F	W	Secondary forest
97	GD097	1425.65	4774.21	S. Ulu Bole	—	Csba	30	D.B.	R	C	F	W	Secondary forest
98	GD098	1425.13	4774.16	S. Ulu Bole	—	Q_2	30	D.B.	R	C	F	W	Secondary forest
99	GD099	1425.88	4774.77	S. Ulu Bole	—	Q_2	30	B.	R	C	F	W	Secondary forest
100	GD100	1425.40	4774.64	S. Ulu Bole	—	Q_2	25	L.B.	R	C	F	W	Secondary forest
101	GD101	1424.46	4765.15	S. Ulu Bole	—	As	30	B.	R	C	S	W	Primary forest
102	GD102	1424.88	4765.88	S. Ulu Bole	—	As	30	B.	F	C	S	W	Primary forest
103	GD103	1424.18	4765.43	S. Tingkayu	—	As	25	B.	F	C	S	W	Primary forest
104	GD104	1424.32	4765.80	S. Ulu Bole	—	As	30	B.	F	C	S	W	Primary forest
105	GD105	1424.67	4766.20	S. Ulu Bole	—	As	30	B.	F	C	S	W	Primary forest
106	GD106	1424.24	4766.25	S. Ulu Bole	—	As	30	B.	F	C	S	W	Primary forest
107	GD107	1424.68	4766.80	S. Ulu Bole	—	As	30	B.	R	C	M	W	Secondary forest
108	GD108	1424.10	4766.89	S. Tingkayu	—	As	25	B.	R	C	M	W	Cocoa plantation
109	GD109	1424.79	4767.28	S. Ulu Bole	—	As	30	B.	F	C	M	W	Cocoa plantation
110	GD110	1424.38	4767.16	S. Ulu Bole	—	As	30	B.	R	C	M	W	Cocoa plantation
111	GD111	1424.08	4767.09	S. Tingkayu	—	As	30	B.	R	C	M	W	Cocoa plantation
112	GD112	1424.67	4767.97	S. Ulu Bole	amphi. schist	As	25	Y.B.	F	C	S	W	Cocoa plantation
113	GD113	1424.80	4768.29	S. Ulu Bole	amphi. schist	As	30	Y.B.	F	C	S	W	Cocoa plantation
114	GD114	1424.26	4768.39	S. Ulu Bole	—	As	30	B.	F	C	S	W	Cocoa plantation
115	GD115	1424.58	4768.87	S. Ulu Bole	—	As	30	Y.B.	F	C	S	W	Primary forest
116	GD116	1424.10	4768.88	S. Tingkayu	—	As	25	B.	R	C	M	W	Secondary forest
117	GD117	1424.62	4769.30	S. Ulu Bole	—	As	30	Y.B.	F	C	S	W	Secondary forest
118	GD118	1424.07	4769.29	S. Tingkayu	—	As	30	B.	R	C	M	W	Secondary forest
119	GD119	1424.83	4769.80	S. Ulu Bole	—	As	30	B.	R	C	M	W	Secondary forest
120	GD120	1424.25	4769.79	S. Ulu Bole	—	As	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)

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
121	GD121	1424.47	4770.26	S. Ulu Bole	—	As	20	B.	R	C	M	W	Secondary forest
122	GD122	1424.04	4770.25	S. Tingkayu	—	P_4Km	30	L.B.	R	C	F	W	Secondary forest
123	GD123	1424.85	4770.77	S. Ulu Bole	—	As	30	B.	R	C	M	W	Secondary forest
124	GD124	1424.49	4770.95	S. Ulu Bole	—	P_4Km	30	L.B.	R	C	F	W	Cocoa plantation
125	GD125	1424.73	4771.33	S. Ulu Bole	—	Pr	30	L.B.	R	C	M	W	Cocoa plantation
126	GD126	1424.27	4771.23	S. Ulu Bole	—	P_4Km	30	L.B.	R	C	F	W	Cocoa plantation
127	GD127	1424.57	4771.80	S. Ulu Bole	—	P_4Km	30	B.	R	C	M	W	Cocoa plantation
128	GD128	1424.12	4771.67	S. Tingkayu	—	P_4Km	30	D.R.B.	R	C	F	W	Cocoa plantation
129	GD129	1424.76	4772.11	S. Ulu Bole	—	P_4Km	25	L.B.	M	C	S	W	Secondary forest
130	GD130	1424.17	4772.20	S. Tingkayu	sandstone	P_4Km	30	B.	F	C	M	W	Cocoa plantation
131	GD131	1424.75	4772.67	S. Ulu Bole	—	P_4Km	30	D.B.	M	C	M	W	Cocoa plantation
132	GD132	1424.06	4772.79	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Cocoa plantation
133	GD133	1424.42	4773.12	S. Ulu Bole	—	Gs	30	L.B.	R	C	M	W	Cocoa plantation
134	GD134	1424.08	4773.37	S. Tingkayu	—	Gs	30	D.B.	M	C	S	W	Secondary forest
135	GD135	1424.64	4773.89	S. Ulu Bole	—	Q_2	30	R.B.	R	C	M	W	Secondary forest
136	GD136	1424.25	4773.84	S. Ulu Bole	peridotite	Pr	30	D.B.	F	C	M	W	Secondary forest
137	GD137	1424.79	4774.16	S. Ulu Bole	—	Q_2	30	L.B.	R	C	F	W	Secondary forest
138	GD138	1424.41	4774.28	S. Ulu Bole	peridotite	Pr	25	D.B.	M	C	M	W	Secondary forest
139	GD139	1424.83	4774.80	S. Ulu Bole	peridotite	Pr	30	D.B.	M	C	S	W	Secondary forest
140	GD140	1424.27	4774.85	S. Ulu Bole	peridotite	Pr	20	D.B.	F	C	S	W	Secondary forest
141	GD141	1423.53	4765.12	S. Tingkayu	—	As	25	B.	F	C	S	W	Secondary forest
142	GD142	1423.05	4765.18	S. Tingkayu	—	As	35	B.	R	C	M	W	Secondary forest
143	GD143	1423.78	4765.59	S. Tingkayu	—	As	30	B.	F	C	S	W	Secondary forest
144	GD144	1423.22	4765.68	S. Tingkayu	—	As	25	B.	F	C	S	W	Secondary forest
145	GD145	1423.32	4766.12	S. Tingkayu	—	As	25	B.	F	C	S	W	Secondary forest
146	GD146	1423.72	4766.19	S. Tingkayu	—	As	25	B.	F	C	S	W	Secondary forest
147	GD147	1423.07	4766.57	S. Tingkayu	—	As	30	Y.B.	R	C	M	W	Secondary forest
148	GD148	1423.76	4766.75	S. Tingkayu	—	As	30	D.B.	R	C	F	W	Cocoa plantation
149	GD149	1423.74	4767.28	S. Tingkayu	—	Q_2	30	B.	R	C	M	W	Cocoa plantation
150	GD150	1423.24	4767.08	S. Tingkayu	—	As	30	B.	R	C	F	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)

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
151	GD151	1423.36	4767.53	S. Tingkayu	—	Q_2	25	B.	R	C	S	W	Cocoa plantation
152	GD152	1423.60	4767.90	S. Tingkayu	—	As	20	B.	R	C	M	W	Cocoa plantation
153	GD153	1423.88	4768.27	S. Tingkayu	—	As	25	B.	F	C	M	W	Cocoa plantation
154	GD154	1423.36	4768.12	S. Tingkayu	—	Q_2	30	B.	R	C	M	W	Cocoa plantation
155	GD155	1423.65	4768.66	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Cocoa plantation
156	GD156	1423.15	4768.77	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	M	W	Secondary forest
157	GD157	1423.62	4769.03	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Secondary forest
158	GD158	1423.16	4769.37	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Secondary forest
159	GD159	1423.85	4769.76	S. Tingkayu	—	P_4Km	30	B.	F	C	M	W	Secondary forest
160	GD160	1423.31	4769.79	S. Tingkayu	—	Q_2	25	B.	R	C	M	W	Secondary forest
161	GD161	1423.05	4770.15	S. Tingkayu	—	Q_2	30	B.	R	C	M	W	Secondary forest
162	GD162	1423.53	4770.29	S. Tingkayu	—	P_4Km	20	B.	R	C	M	W	Secondary forest
163	GD163	1423.89	4770.82	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Secondary forest
164	GD164	1423.42	4770.77	S. Tingkayu	—	P_4Km	25	Y.B.	R	C	M	D	Secondary forest
165	GD165	1423.04	4770.73	S. Tingkayu	—	P_4Km	30	L.B.	F	S	M	W	Secondary forest
166	GD166	1423.78	4771.36	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Secondary forest
167	GD167	1423.32	4771.25	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	M	D	Secondary forest
168	GD168	1423.35	4771.75	S. Tingkayu	—	Gs	30	L.B.	R	C	M	W	Secondary forest
169	GD169	1423.73	4771.90	S. Tingkayu	—	P_4Km	20	B.	R	C	M	W	Secondary forest
170	GD170	1423.73	4772.40	S. Tingkayu	—	P_4Km	25	B.	F	C	M	W	Cocoa plantation
171	GD171	1423.41	4772.20	S. Tingkayu	—	Gs	30	L.B.	F	C	S	W	Secondary forest
172	GD172	1423.02	4772.60	S. Tingkayu	peridotite	Pr	30	D.B.	F	C	S	W	Secondary forest
173	GD173	1423.43	4772.79	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Cocoa plantation
174	GD174	1423.71	4773.13	S. Tingkayu	sandstone	P_4Km	30	Y.B.	F	C	M	W	Cocoa plantation
175	GD175	1423.01	4773.26	S. Tingkayu	—	P_4Km	30	B.	R	C	S	W	Secondary forest
176	GD176	1423.65	4773.68	S. Tingkayu	peridotite	Pr	30	B.	F	C	S	W	Secondary forest
177	GD177	1423.16	4773.74	S. Tingkayu	—	P_4Km	25	B.	F	C	M	W	Secondary forest
178	GD178	1423.91	4774.05	S. Tingkayu	—	Pr	30	D.B.	F	C	S	W	Secondary forest
179	GD179	1423.43	4774.39	S. Tingkayu	—	P_4Km	30	B.	F	C	S	W	Cocoa plantation
180	GD180	1423.85	4774.88	S. Tingkayu	—	P_4Km	30	Y.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)

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
181	GD181	1423.16	4774.80	S. Tingkayu	sandstone	P_4Km	20	L.B.	F	S	M	D	Secondary forest
182	GD182	1422.90	4765.59	S. Tingkayu	—	As	35	B.	F	C	M	W	Secondary forest
183	GD183	1422.55	4765.47	S. Tingkayu	—	Pr	30	B.	R	C	M	W	Secondary forest
184	GD184	1422.11	4765.32	S. Tingkayu	tfc. sandstone	P_4Km	35	B.	F	C	M	W	Secondary forest
185	GD185	1422.24	4765.87	S. Tingkayu	tfc. sandstone	P_4Km	30	B.	F	C	M	W	Secondary forest
186	GD186	1422.80	4766.24	S. Tingkayu	—	Pr	30	B.	F	C	M	W	Primary forest
187	GD187	1422.13	4766.43	S. Tingkayu	—	P_4Km	30	B.	F	C	M	W	Primary forest
188	GD188	1422.58	4766.84	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	M	W	Secondary forest
189	GD189	1422.11	4766.88	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	M	W	Secondary forest
190	GD190	1422.88	4767.08	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	M	W	Secondary forest
191	GD191	1422.52	4767.40	S. Tingkayu	—	P_4Km	30	B.	R	C	M	W	Secondary forest
192	GD192	1422.07	4767.62	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	M	W	Secondary forest
193	GD193	1422.89	4767.76	S. Tingkayu	—	Q_2	30	B.	R	C	M	W	Secondary forest
194	GD194	1422.59	4768.23	S. Tingkayu	—	Q_2	30	B.	R	C	F	W	Secondary forest
195	GD195	1422.05	4768.14	S. Tingkayu	—	Q_2	30	Y.B.	R	C	M	W	Secondary forest
196	GD196	1422.80	4768.75	S. Tingkayu	—	Q_2	30	Y.B.	R	C	F	W	Secondary forest
197	GD197	1422.16	4768.70	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	F	W	Secondary forest
198	GD198	1422.75	4769.15	S. Tingkayu	—	Q_2	30	Y.B.	R	C	F	W	Secondary forest
199	GD199	1422.07	4769.19	S. Tingkayu	—	P_4Km	30	Y.B.	R	C	M	D	Artificial fore.
200	GD200	1422.74	4769.84	S. Tingkayu	—	Q_2	30	B.	R	C	M	W	Secondary forest
201	GD201	1422.08	4769.80	S. Tingkayu	—	P_4Km	30	D.B.	R	C	F	W	Artificial fore.
202	GD202	1422.26	4770.17	S. Tingkayu	—	Pr	30	B.	R	C	M	W	Secondary forest
203	GD203	1422.70	4770.44	S. Tingkayu	—	Gs	30	B.	F	C	S	W	Secondary forest
204	GD204	1422.23	4770.66	S. Tingkayu	peridotite	Pr	30	R.B.	R	C	M	W	Secondary forest
205	GD205	1422.63	4770.92	S. Tingkayu	peridotite	Pr	30	B.	M	C	M	W	Secondary forest
206	GD206	1422.42	4771.29	S. Tingkayu	peridotite	Pr	20	D.B.	M	C	F	W	Secondary forest
207	GD207	1422.83	4771.42	S. Tingkayu	peridotite	Pr	25	R.B.	R	C	M	W	Secondary forest
208	GD208	1422.12	4771.58	S. Tingkayu	peridotite	Pr	25	L.B.	R	C	S	W	Secondary forest
209	GD209	1422.65	4771.69	S. Tingkayu	peridotite	Pr	30	D.B.	R	C	S	W	Secondary forest
210	GD210	1423.08	4772.14	S. Tingkayu	peridotite	Pr	30	B.	R	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)

Area: Sungai Tingkayu Area (Area D)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
211	GD211	1422.42	4772.17	S. Tingkayu	—	P_4Km	30	L.B.	R	C	S	W	Secondary forest
212	GD212	1422.05	4772.52	S. Tingkayu	—	P_4Km	30	Y.B.	F	S	S	D	Cocoa plantation
213	GD213	1422.77	4772.85	S. Tingkayu	—	P_4Km	30	D.B.	F	C	S	W	Secondary forest
214	GD214	1422.46	4773.12	S. Tingkayu	—	P_4Km	30	Y.B.	R	S	S	D	Cocoa plantation
215	GD215	1422.49	4773.62	S. Tingkayu	—	Gs	30	Y.B.	R	S	S	D	Cocoa plantation
216	GD216	1422.05	4773.75	S. Tingkayu	—	Gs	30	D.B.	F	C	S	W	Cocoa plantation
217	GD217	1422.91	4773.91	S. Tingkayu	—	P_4Km	25	L.B.	M	C	M	W	Secondary forest
218	GD218	1422.22	4774.11	S. Tingkayu	—	Gb	30	L.B.	M	C	S	W	Cocoa plantation
219	GD219	1422.83	4774.37	S. Tingkayu	—	Gs	30	D.B.	M	C	S	W	Cocoa plantation
220	GD220	1422.48	4774.74	S. Tingkayu	vol. breccia	Csba	30	D.B.	M	C	S	W	Cocoa plantation
221	GD221	1422.10	4774.86	S. Tingkayu	—	Csba	30	L.B.	F	C	S	W	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 31

Analytical results of soil
geochemical samples in Area D

List of Geochemical Analysis(1)

Ser. No.	Sample No.	Location (km) X-coord	Y-coord	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
1	GD001	4770.200	1427.430	1>	1>	17	40	196	31	10>	.01	3.25	466	1>	.72	78	2>	.034	10.8	51	.42	.2>	2>	70
2	GD002	4770.570	1427.140	1>	1>	13	41	188	76	14	.02	3.10	816	1>	1.22	62	2>	.043	9.0	101	.66	.2>	2>	72
3	GD003	4770.780	1427.910	1>	1>	10	42	447	67	11	.02	3.48	608	1>	.70	163	2>	.037	5.8	53	.31	.2>	2>	58
4	GD004	4771.020	1427.480	1>	1>	22	31	72	86	13	.01	1.67	709	1>	1.05	41	2>	.033	10.0	100	.87	.2>	2>	55
5	GD005	4771.190	1427.710	1>	1>	7	38	157	56	42	.01	2.70	577	1>	1.27	59	2>	.044	9.2	84	.58	.2>	2>	51
6	GD006	4771.750	1427.750	1>	1>	23	67	252	136	56	.01	2.07	2342	1>	1.09	87	2>	.034	16.2	62	1.30	.2>	2>	92
7	GD007	4771.560	1427.470	1>	1>	9	34	197	18	10>	.01	1.62	392	1>	1.52	214	2>	.027	7.3	76	.43	.2>	2>	30
8	GD008	4771.300	1427.030	1>	1>	19	42	279	24	42	.06	3.42	625	1>	2.68	113	2>	.045	5.4	140	.44	.2>	2>	61
9	GD009	4772.160	1427.400	1>	1>	43	34	166	11	18	.04	1.66	824	1>	1.07	45	2>	.027	11.7	119	.28	.2	2>	60
10	GD010	4772.500	1427.850	1>	1>	78	31	53	46	57	.09	1.20	925	1>	1.05	22	2>	.024	8.6	196	.66	.8	2>	71
11	GD011	4772.850	1427.720	1>	1>	57	29	183	22	21	.05	1.80	882	1>	.99	61	2>	.019	10.8	125	.33	.2	2>	64
12	GD012	4772.550	1427.200	1>	1>	23	22	126	16	20	.04	1.72	538	1>	1.20	55	2>	.033	14.1	125	.46	.2	2>	34
13	GD013	4773.160	1427.290	1>	1>	78	19	68	39	31	.20	1.13	905	1>	.87	28	2>	.018	9.2	166	.48	.8	2>	70
14	GD014	4773.820	1427.840	1>	1>	114	37	135	60	60	.21	1.04	1350	1>	1.45	36	2>	.033	8.7	201	.68	.2	2>	89
15	GD015	4773.780	1427.460	1>	1>	67	34	80	33	33	.01	.55	1585	1>	.96	27	2>	.022	4.8	142	.65	1.0	2>	57
16	GD016	4773.700	1427.020	1>	1>	51	49	127	24	47	.01>	.86	1864	1>	.62	42	4	.030	8.9	95	.65	.2	2>	50
17	GD017	4774.220	1427.640	1>	1>	67	37	102	51	56	.09	.80	1337	1>	1.20	35	2>	.022	6.8	136	.84	1.0	2>	72
18	GD018	4774.390	1427.270	1>	1>	160	35	76	47	63	.21	.82	1581	1>	1.82	31	2>	.041	8.6	265	.66	.8	2>	61
19	GD019	4774.880	1427.580	1>	1>	48	37	218	13	43	.04	2.24	1388	1>	1.53	63	2>	.037	14.7	150	.30	.2	2>	72
20	GD020	4774.880	1427.030	1>	1	27	41	94	123	19	.04	1.94	1363	1>	2.33	41	2>	.027	7.7	113	.68	.2	2>	72
21	GD021	4765.300	1426.710	1>	2	13	45	65	94	46	.01>	1.25	784	1>	3.37	34	2>	.016	8.1	69	.87	.2	2>	100
22	GD022	4765.860	1426.850	1>	1>	12	30	97	102	65	.01>	.73	103	1>	.67	50	2>	.016	4.5	22	.78	.2>	2>	97
23	GD023	4765.090	1426.370	1>	1	16	26	82	61	60	.01	.62	61	1>	3.11	31	2>	.015	5.3	52	.86	.2	2>	79
24	GD024	4765.630	1426.470	1>	7	34	41	220	117	64	.01	.98	882	1	1.31	94	2>	.018	.7	52	.75	.2	2>	163
25	GD025	4766.160	1426.530	1>	1>	16	29	101	106	51	.01>	1.75	1348	2	3.57	41	3	.014	6.3	67	.72	.2	3	190
26	GD026	4766.570	1426.840	1>	1>	16	36	80	104	59	.02	1.35	1184	1>	2.99	37	2>	.024	13.3	133	.90	.2>	2>	68
27	GD027	4766.270	1426.110	1>	1	39	39	165	134	28	.23	2.38	894	1>	1.84	70	2>	.041	7.3	130	.42	.2>	2>	112
28	GD028	4766.920	1426.260	1>	2	11	25	154	111	98	.01>	.74	5>	1>	.92	47	2>	.016	7.0	18	.62	.2	2>	105
29	GD029	4767.040	1426.650	1>	1>	5	29	52	37	78	.01>	.36	199	1>	2.75	20	2>	.015	3.3	33	.74	.2	2>	84
30	GD030	4767.250	1426.080	1>	1>	17	21	97	189	51	.04	.29	5>	1>	.13	53	2>	.026	1.7	2	.56	.2	2>	98
31	GD031	4767.480	1426.420	1>	1>	19	56	354	112	35	.12	1.94	817	1>	1.32	118	2>	.043	7.7	138	.43	.2>	2>	101
32	GD032	4767.780	1426.750	1>	1>	8	24	134	179	76	.01>	.40	5>	1>	.31	53	2>	.017	4.6	5	.94	.2>	2>	99
33	GD033	4768.070	1426.430	1>	1>	27	28	131	103	24	.02	1.41	489	1>	1.41	68	2>	.020	8.5	81	.45	.2	2>	84
34	GD034	4768.420	1426.700	1>	1>	21	29	46	58	33	.02	1.36	783	1>	2.68	34	2>	.021	10.7	137	.65	.2	2>	70
35	GD035	4768.340	1426.070	1>	1>	38	45	80	85	22	.19	2.76	1612	1>	2.61	47	2>	.026	6.0	98	.68	.2	2>	103
36	GD036	4768.760	1426.090	1>	1>	21	47	514	66	22	.03	2.95	502	1>	2.29	674	2>	.018	11.6	59	.65	.2	2>	93
37	GD037	4769.110	1426.510	1>	1>	8	28	65	52	40	.01>	2.14	800	1>	2.67	29	2>	.030	8.9	100	.69	.2	2>	67
38	GD038	4769.170	1426.080	1>	1>	20	55	383	65	74	.01>	2.19	1107	1>	2.32	198	2>	.028	11.2	103	.65	.2	2>	76
39	GD039	4769.500	1426.880	1>	1>	9	30	114	52	16	.02	3.12	669	1>	2.63	53	2>	.032	9.0	124	.63	.2	2>	59
40	GD040	4769.880	1426.460	1>	1	26	41	94	97	33	.08	2.85	1187	1>	2.78	43	2>	.041	10.2	137	.67	.2>	2>	80
41	GD041	4770.120	1426.850	1>	1>	14	43	148	38	34	.01	2.24	948	1	1.73	63	2>	.037	10.3	123	.77	.2>	2>	61
42	GD042	4770.150	1426.050	1>	1>	28	42	98	54	45	.08	3.18	1216	1>	2.91	54	2>	.039	10.2	143	.59	.2>	2>	87
43	GD043	4770.580	1426.420	1>	16	37	23	42	60	37	.15	1.86	1006	1>	1.77	43	2>	.035	.2>	146	.39	.2>	2>	95
44	GD044	4770.900	1426.870	1>	1>	8	32	116	24	10>	.01	2.19	718	1>	1.54	41	2>	.050	8.9	157	.79	.2>	2>	45
45	GD045	4771.120	1426.280	1>	1>	27	54	277	74	46	.05	2.00	1612	1>	3.12	119	2>	.028	10.3	117	.88	.2	2>	65
46	GD046	4771.370	1426.590	1>	1>	38	99	193	92	66	.02	.91	1405	1>	1.49	182	2>	.018	6.4	51	1.21	.2>	2>	70
47	GD047	4771.740	1426.890	1>	1>	28	44	633	20	10>	.08	3.66	500	1>	1.49	246	2>	.036	9.8	107	.46	.2>	2>	72
48	GD048	4771.890	1426.380	1>	1	16	33	43	43	26	.01>	1.27	1215	1>	2.16	24	2>	.033	6.6	112	1.00	.2>	2>	57
49	GD049	4772.370	1426.920	1>	1>	13	51	180	32	32	.01>	1.64	682	1>	2.26	87	2>	.029	5.0	98	.69	.2>	2>	52
50	GD050	4772.330	1426.210	1>	1>	21	42	95	59	23	.05	2.58	1357	1>	3.17	48	2>	.029	8.4	126	.76	.2>	2>	84

List of Geochemical Analysis(2)

Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	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
51	GD051	4772.730	1426.850	1>	21	11	58	91	57	47	.01>	2.28	901	1>	1.43	54	2>	.043	13.1	134	.73	.2	2>	54
52	GD052	4772.820	1426.500	1>	1>	18	50	36	27	75	.01>	1.27	626	1>	1.59	20	2>	.037	15.1	180	1.13	.2>	2>	36
53	GD053	4773.260	1426.760	1>	1>	8	43	42	30	46	.01>	2.01	670	1>	.99	28	2>	.050	5.7	299	.79	.4	2>	45
54	GD054	4773.250	1426.380	1>	1>	13	39	73	28	71	.02	2.55	756	1>	2.22	38	2>	.044	12.0	138	.65	.2>	2>	62
55	GD055	4773.720	1426.570	1>	1>	7	30	74	89	28	.01>	1.59	1414	1>	2.71	29	2>	.023	7.9	104	.75	.2	2>	112
56	GD056	4773.630	1426.180	1>	1	48	54	125	121	15	.09	2.33	1584	1>	2.66	110	2>	.014	10.8	58	.80	.4	2>	172
57	GD057	4774.170	1426.820	1>	47	44	41	26	89	16	.07	2.38	1439	1>	3.69	25	2>	.031	14.4	116	.84	.2	2>	118
58	GD058	4774.160	1426.140	1>	1>	96	30	61	39	127	.41	.36	2605	1	.03	25	2>	.022	3.7	45	.43	1.6	2>	43
59	GD059	4774.530	1426.320	1>	2	90	44	224	83	30	.45	1.83	2122	1>	1.47	120	2>	.031	14.2	72	.74	.6	2>	100
60	GD060	4774.930	1426.690	1>	10	40	202	4920	170	81	.01>	5.47	3679	1>	.08	805	2>	.083	12.8	15	.11	.2>	2>	93
61	GD061	4765.330	1425.560	1>	1>	29	43	262	57	102	.04	1.63	1702	1>	2.46	69	2>	.065	3.4	202	.91	.2	2>	76
62	GD062	4765.320	1425.160	1>	1>	34	55	339	78	103	.07	1.98	1304	1>	2.25	92	2>	.064	9.9	172	.94	.2>	2>	87
63	GD063	4765.820	1425.640	1>	1>	35	40	290	106	61	.02	1.07	1390	1>	1.14	100	2>	.033	6.0	67	.47	.2	2>	82
64	GD064	4765.720	1425.190	1>	1>	22	39	264	53	102	.04	1.69	1342	1>	2.37	70	2>	.068	7.6	208	.79	.2>	2>	77
65	GD065	4766.200	1425.580	1>	1>	16	38	151	40	73	.02	1.97	685	1>	2.38	49	2>	.058	2.0	118	.42	.2	2>	82
66	GD066	4766.120	1425.170	1>	1>	29	52	318	109	41	.10	2.20	1316	1>	1.93	126	2>	.051	8.8	161	1.04	.2>	2>	106
67	GD067	4766.750	1425.460	1>	1>	10	65	621	550	69	.01	7.86	1682	1>	1.25	686	2>	.039	7.7	69	.60	.2	2>	329
68	GD068	4766.860	1425.030	5	2	43	40	444	67	100	.15	2.47	884	1>	1.90	168	2>	.050	13.9	224	.90	.4	2>	83
69	GD069	4767.170	1425.270	1>	1>	17	73	451	121	57	.01	2.81	1939	1>	2.15	275	2>	.038	11.6	76	1.05	.2>	2>	116
70	GD070	4767.740	1425.930	1>	2	9	48	215	106	87	.01>	.33	89	1>	.10	84	2>	.015	1.4	4	.66	.2	2>	83
71	GD071	4767.570	1425.150	1>	1>	76	19	123	51	85	.28	.27	934	1>	.02	54	2>	.022	4.3	11	.45	.6	2>	39
72	GD072	4767.900	1425.050	1>	3	7	39	124	73	98	.01>	3.26	904	1>	2.47	51	2>	.017	14.9	52	.72	.2	2>	187
73	GD073	4768.120	1425.650	2	1>	9	48	369	119	97	.01>	1.15	128	1>	.48	144	2>	.020	6.6	28	.51	.4	2>	87
74	GD074	4768.870	1425.680	1>	22	688	52	222	191	81	.04	.62	1301	2	1.08	91	2>	.018	4.2	32	.88	.2>	2>	489
75	GD075	4768.430	1425.100	1>	1>	13	52	461	36	100	.01>	2.83	1145	1>	1.94	146	2>	.040	11.7	260	.38	.2	2>	64
76	GD076	4768.940	1425.300	1>	1	12	67	72	79	104	.01>	.33	1166	1>	.49	28	2>	.021	10.5	34	1.01	.2	2>	92
77	GD077	4769.240	1425.610	1>	4	7	45	140	73	66	.01>	.39	728	1>	2.78	35	2>	.019	5.3	43	.62	.2>	2>	60
78	GD078	4769.190	1425.000	1>	2	392	84	1344	72	84	.02	4.76	570	1>	.26	387	2>	.021	15.9	18	.44	.2>	2>	106
79	GD079	4769.790	1425.750	1>	1>	23	47	322	113	63	.05	2.08	1244	1>	.92	127	2>	.035	5.1	55	.40	.2>	2>	90
80	GD080	4769.870	1425.320	1>	1>	20	61	186	90	100	.01>	.44	2033	1>	.98	60	2>	.027	4.3	23	.45	.2	2>	63
81	GD081	4770.400	1425.520	1>	10	35	49	104	183	42	.10	.56	5>	1>	.44	42	2>	.011	6.5	6	.48	.2>	2>	76
82	GD082	4770.200	1425.030	1>	3	856	19	234	104	73	.09	.27	5>	1	.28	68	2>	.015	10.1	16	.90	.2	2>	80
83	GD083	4770.860	1425.830	1>	3	521	32	76	50	25	.12	1.92	833	1>	4.06	44	2>	.017	6.6	116	.59	.2>	2>	76
84	GD084	4770.810	1425.120	1>	1	566	18	244	69	85	.05	.21	5>	1>	.18	80	2>	.016	1.8	10	.80	.4	2>	61
85	GD085	4771.290	1425.280	1>	1>	422	42	44	42	68	.07	.97	1338	1>	3.98	22	2>	.028	16.7	114	1.06	.2>	2>	66
86	GD086	4771.450	1425.900	1>	1>	551	51	71	80	59	.12	1.67	1547	1>	2.77	44	2>	.025	12.4	120	.76	.2>	2>	94
87	GD087	4771.820	1425.620	1>	1>	451	47	96	32	119	.05	1.24	1625	1>	1.52	47	2>	.045	12.3	139	.75	.2>	2>	42
88	GD088	4771.680	1425.020	1>	1	412	46	216	107	52	.20	1.56	1358	1>	2.89	78	2>	.040	9.7	127	.72	.2>	2>	81
89	GD089	4772.250	1425.720	1>	1>	597	34	204	69	58	.15	3.08	917	1>	3.92	69	2>	.042	19.6	146	.55	.2>	2>	82
90	GD090	4772.090	1425.270	1>	4	671	42	150	96	62	.40	1.35	1062	1>	1.36	89	2>	.023	11.9	75	.79	.4	2>	86
91	GD091	4772.570	1425.180	7	8	443	45	50	59	46	.09	1.37	1332	1>	2.86	27	2>	.024	5.7	77	.76	.2	2>	113
92	GD092	4772.880	1425.750	1>	1>	434	39	284	72	55	.15	2.27	1360	1>	2.02	90	2>	.050	8.4	215	.38	.2	2>	93
93	GD093	4773.250	1425.020	1>	1>	142	15	92	16	69	.45	.35	487	1>	.09	26	2>	.021	2.6	24	.53	2.4	2>	36
94	GD094	4773.400	1425.620	1>	1>	579	39	84	73	33	.16	2.84	1121	1>	2.28	52	2>	.046	10.2	175	.66	.2	2>	108
95	GD095	4773.860	1425.860	5	1>	382	20	86	36	25	1.21	1.38	458	1>	.94	50	11	.013	7.4	42	.44	2.2	2>	77
96	GD096	4773.820	1425.300	1>	1>	162	9	89	18	81	.63	.35	230	1>	.04	23	10	.019	5.4	41	.48	2.2	2>	42
97	GD097	4774.210	1425.650	7	1>	122	27	153	25	48	.49	1.27	842	1>	.14	171	5	.023	6.1	52	.44	2.0	2>	50
98	GD098	4774.160	1425.130	1>	4	91	22	159	18	71	.15	.48	1626	1>	.76	47	2>	.030	2.4	46	.35	1.2	2>	32
99	GD099	4774.770	1425.880	1>	1>	119	59	127	47	50	.44	.50	2415	1>	.80	94	2>	.014	4.8	34	.74	1.8	2>	71
100	GD100	4774.640	1425.400	1>	1>	41	6	115	10	79	.06	.11	105	1>	.02	27	6	.017	3.6	14	.36	1.6	2>	20

List of Geochemical Analysis(3)

Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	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
101	GD101	4765.150	1424.460	1>	1>	503	46	262	96	71	.20	2.48	930	1>	2.20	113	2>	.053	12.8	181	.87	.2>	2>	94
102	GD102	4765.880	1424.880	1>	1>	617	65	378	86	86	.15	2.21	1529	1>	2.14	181	2>	.047	7.5	175	1.14	.2	2>	108
103	GD103	4765.430	1424.180	1>	1>	270	41	223	56	97	.22	1.84	935	1>	2.22	84	2>	.067	10.0	183	.89	.2>	2>	86
104	GD104	4765.800	1424.320	5	1>	520	61	424	79	81	.12	1.15	1484	1>	1.87	158	2>	.047	11.1	161	1.05	.4	2>	92
105	GD105	4766.200	1424.670	1>	21	274	53	240	55	61	.18	2.52	1174	1>	2.28	162	2>	.049	11.3	200	.94	.2	2>	89
106	GD106	4766.250	1424.240	1>	1>	356	77	292	87	87	.11	1.33	1968	1>	1.72	150	2>	.044	8.6	130	1.02	.2	2>	93
107	GD107	4766.800	1424.680	1>	1>	344	67	255	129	81	.05	.69	1330	1>	.48	119	2>	.032	10.5	71	1.17	.2	2>	100
108	GD108	4766.890	1424.100	1>	1>	316	69	244	89	74	.03	.71	1836	1>	1.80	79	2>	.045	7.0	153	1.06	.2	2>	89
109	GD109	4767.280	1424.790	1>	1>	537	35	268	121	139	.50	.36	3091	1>	.18	102	2>	.046	2.0	61	.90	.8	2>	67
110	GD110	4767.160	1424.380	1>	1>	454	132	331	97	120	.05	.46	3451	1>	.86	112	2>	.049	7.1	44	1.59	.2	2>	75
111	GD111	4767.090	1424.080	1>	1>	55	57	343	69	37	.04	3.37	1476	1>	2.18	236	2>	.045	13.1	194	1.02	.2	2>	90
112	GD112	4767.970	1424.670	1>	1>	18	39	102	75	70	.01	1.80	1344	1>	2.15	72	2>	.050	6.9	143	.58	.2>	2>	82
113	GD113	4768.290	1424.800	1	1>	373	38	173	33	52	.04	1.99	828	1>	2.32	65	2>	.052	10.2	94	.52	.2	2>	85
114	GD114	4768.390	1424.260	1>	1>	19	49	204	82	50	.06	2.71	1011	1>	1.95	73	2>	.052	8.8	145	.78	.2	2>	83
115	GD115	4768.870	1424.580	1>	1>	9	41	90	75	80	.01>	.38	234	1>	1.41	58	2>	.022	8.1	21	1.28	.2	2>	91
116	GD116	4768.880	1424.100	1>	1>	28	83	299	102	75	.01>	.71	2382	1>	1.81	97	2>	.043	15.8	126	1.02	.2	2>	76
117	GD117	4769.300	1424.620	1>	20	292	58	166	83	77	.03	.51	978	1>	.66	70	2>	.029	11.6	55	.83	.2	2>	83
118	GD118	4769.290	1424.070	1>	5	84	86	224	66	108	.01>	.54	1122	1>	1.19	117	2>	.018	7.3	33	.73	.2	2>	71
119	GD119	4769.800	1424.830	1>	1	274	20	281	107	95	.01	.24	5>	1>	.11	94	2>	.025	1.8	8	.74	.2	2>	66
120	GD120	4769.790	1424.250	1>	1>	137	49	199	98	103	.01>	.22	722	1>	.06	79	2>	.026	6.6	3	.82	.2	2>	74
121	GD121	4770.260	1424.470	1>	1>	534	49	288	62	88	.04	.27	984	1>	.13	103	2>	.025	9.3	10	.93	.4	2>	44
122	GD122	4770.250	1424.040	1>	1>	5	21	169	170	58	.01>	.25	242	1>	.16	64	2>	.014	.3	3	.80	.2>	2>	76
123	GD123	4770.770	1424.850	1>	1>	15	107	908	95	96	.01>	4.00	1429	1>	.49	345	2>	.032	11.6	47	.28	.2	2>	70
124	GD124	4770.950	1424.490	9	7	1020	87	2092	107	135	.11	.37	420	1>	.24	400	2>	.045	17.0	17	1.25	.4	2>	101
125	GD125	4771.330	1424.730	1>	3	9	26	31	71	85	.01>	.24	5>	1	.82	23	2>	.017	5.7	10	1.36	.4	2>	76
126	GD126	4771.230	1424.270	1>	1>	20	36	120	99	100	.02	.42	5>	1>	.34	46	2>	.017	3.5	7	.65	.4	2>	79
127	GD127	4771.800	1424.570	1>	1>	613	67	179	77	86	.07	.60	2196	1>	.64	50	2>	.021	4.2	39	.67	.2	2>	63
128	GD128	4771.670	1424.120	1>	1>	671	32	370	62	70	1.29	1.07	188	1>	.14	172	2>	.018	11.2	81	1.61	2.4	2>	122
129	GD129	4772.110	1424.760	1>	1>	51	5	49	7	118	3.01	.21	1106	6	1.99	20	2>	.019	.6	11	.54	3.8	2>	192
130	GD130	4772.200	1424.170	2	1>	427	34	207	41	80	.95	1.14	1686	1>	.37	107	2>	.022	8.7	40	.87	2.0	2>	83
131	GD131	4772.670	1424.750	1>	1>	419	55	205	70	60	.61	1.37	1765	1>	.93	133	2>	.019	19.8	52	1.85	1.6	2>	103
132	GD132	4772.790	1424.060	11	1>	402	12	75	20	57	.62	.37	5>	1>	.10	31	2>	.017	8.4	40	.45	2.4	2>	47
133	GD133	4773.120	1424.420	16	1>	173	7	153	11	52	.40	.28	5>	1>	.04	50	2>	.012	1.2	24	.43	2.6	2>	34
134	GD134	4773.370	1424.080	18	2	16	236	5445	37	148	.01>	11.58	2378	1>	.01	3972	2>	.019	11.9	2	.04	.2>	2>	161
135	GD135	4773.890	1424.640	12	1>	420	8	75	20	45	.91	.42	5>	1>	.09	24	2	.013	6.6	50	.37	2.6	2>	50
136	GD136	4773.840	1424.250	1>	4	31	381	7857	38	149	.01>	10.17	3620	1>	.01	4256	2>	.013	19.7	1	.05	.2>	2>	186
137	GD137	4774.160	1424.790	1>	1>	36	18	96	8	90	.04	.09	596	1>	.01	25	2>	.013	4.0	14	.32	1.8	2>	21
138	GD138	4774.280	1424.410	16	1>	28	239	3813	31	97	.02	11.59	2545	1>	.03	3271	2>	.018	14.4	4	.07	.2	2>	152
139	GD139	4774.800	1424.830	14	14	31	207	3041	27	125	.01>	11.11	2147	1>	.01	3528	2>	.016	3.2	4	.03	.6	2>	139
140	GD140	4774.850	1424.270	44	1>	32	190	5031	41	122	.01>	9.53	1803	1>	.01	4025	2>	.015	10.7	2	.04	.2	2>	147
141	GD141	4765.120	1423.530	1>	1>	24	40	281	53	93	.10	1.77	1495	1>	1.96	94	2>	.054	3.5	189	.77	.2>	2>	75
142	GD142	4765.180	1423.050	1>	1	78	40	309	54	48	.11	.86	626	1>	.37	157	2>	.012	5.2	28	.83	1.2	2>	76
143	GD143	4765.590	1423.780	1>	1>	535	47	247	60	57	.08	2.55	750	1>	2.38	73	2>	.053	11.1	181	.91	.2	2>	79
144	GD144	4765.680	1423.220	1>	1>	21	46	284	67	61	.03	2.32	1128	1>	2.12	101	2>	.052	8.8	189	.70	.2>	2>	70
145	GD145	4766.120	1423.320	1>	1>	11	44	307	56	108	.01>	3.07	971	1>	2.00	80	2>	.063	7.7	142	.73	.2	2>	72
146	GD146	4766.190	1423.720	1>	1>	20	55	349	94	42	.01	3.06	1265	1>	1.70	131	2>	.047	9.8	153	.75	.2	2>	81
147	GD147	4766.570	1423.070	7	1>	572	14	306	57	116	.06	.19	378	1>	.14	67	2>	.034	8.1	10	.92	.6	2>	43
148	GD148	4766.750	1423.760	1>	1>	35	50	339	86	76	.16	1.75	1701	1>	2.07	113	2>	.053	10.2	180	.87	.2	2>	89
149	GD149	4767.280	1423.740	1>	2	481	31	405	86	139	.04	.23	5>	1>	.21	89	2>	.024	6.3	17	.70	.4	2>	64
150	GD150	4767.080	1423.240	1>	1>	580	77	344	84	130	.06	.22	1592	1>	.14	103	2>	.028	12.9	9	1.08	.2	2>	78

List of Geochemical Analysis(4)

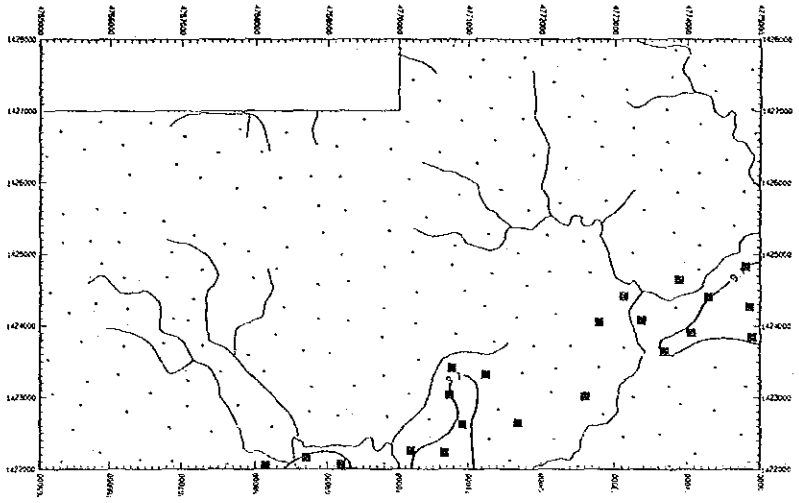
Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
151	GD151	4767.530	1423.360	1>	7	6	28	368	90	103	.01>	.14	283	1>	.08	78	2>	.029	2.7	2	.66	.2	2>	49
152	GD152	4767.900	1423.600	8	1	13	58	462	111	118	.01>	.28	1238	1>	.16	135	2>	.031	6.1	6	.88	.4	2>	63
153	GD153	4768.270	1423.880	1>	1>	40	80	281	85	85	.03	.91	2988	1>	1.25	99	2>	.048	10.4	82	1.31	.2	2>	83
154	GD154	4768.120	1423.360	1>	34	13	94	391	113	110	.01>	.25	1680	1>	.08	117	2>	.032	3.6	2	.95	.4	2>	66
155	GD155	4768.660	1423.650	1>	1>	19	69	288	84	68	.01>	.80	1724	1>	1.27	81	2>	.032	9.3	61	1.30	.2	2>	74
156	GD156	4768.770	1423.150	1>	1	7	115	311	67	99	.01>	.26	1336	1>	.06	89	2>	.021	.4	3	.99	.4	2>	65
157	GD157	4769.030	1423.620	1>	2	16	80	231	37	113	.01>	.18	2588	1>	.43	64	2>	.019	9.0	22	.99	.4	2>	35
158	GD158	4769.370	1423.160	1>	1>	18	62	273	93	71	.03	1.90	1347	1>	1.47	108	2>	.034	11.6	70	.51	.2>	2>	65
159	GD159	4769.760	1423.850	2	1>	9	42	245	48	74	.01>	.35	805	1>	.18	72	2>	.019	6.3	13	1.40	.2	2>	42
160	GD160	4769.790	1423.310	1>	1	8	87	273	64	67	.01>	.31	1518	1>	.12	77	2>	.021	8.7	6	1.04	.4	2>	53
161	GD161	4770.150	1423.050	4	1>	65	19	139	22	46	.37	.38	253	1>	.04	52	2>	.014	7.0	8	.32	2.2	2>	37
162	GD162	4770.290	1423.530	4	1>	59	32	125	27	34	.27	.37	469	1>	.04	43	3	.015	6.8	9	.47	1.4	2>	38
163	GD163	4770.820	1423.890	1>	1>	78	76	361	77	62	.01	1.18	2686	1>	.87	130	2>	.017	7.9	50	1.54	.4	2>	84
164	GD164	4770.770	1423.420	11	1>	106	8	241	13	45	.64	.34	5>	1>	.03	71	5	.015	7.2	38	.34	2.6	2>	41
165	GD165	4770.730	1423.040	12	1>	92	8	83	16	61	.50	.35	5>	1>	.03	29	5	.018	.5	25	.33	2.2	2>	41
166	GD166	4771.360	1423.780	2	1	24	36	183	61	62	.01	.44	554	1>	.17	59	2>	.016	7.1	12	.94	.6	2>	76
167	GD167	4771.250	1423.320	14	1>	97	6	57	13	39	.66	.31	5>	1>	.03	16	2>	.014	2.0	33	.28	2.4	2>	32
168	GD168	4771.750	1423.350	1>	1>	78	4	69	12	73	.42	.29	5>	1>	.02	16	2	.015	3.7	27	.30	2.6	2>	31
169	GD169	4771.900	1423.730	8	1>	118	8	58	28	28	.91	.44	5>	1>	.05	30	2>	.013	.2>	31	.34	2.2	2>	53
170	GD170	4772.400	1423.730	1>	1	36	49	340	65	51	.01>	1.28	1751	1>	2.31	178	2>	.021	8.3	85	.51	.2	2>	53
171	GD171	4772.200	1423.410	1>	1	23	48	455	33	29	.01	3.57	851	2	1.42	100	2>	.042	10.0	111	.19	.2>	2>	63
172	GD172	4772.600	1423.020	12	1>	27	384	4826	23	111	.01>	5.24	4850	1>	.07	2739	2>	.014	19.0	6	.06	.2>	2>	137
173	GD173	4772.790	1423.430	1>	1>	120	29	84	26	48	.52	.59	2335	2	.23	44	9	.016	1.4	39	.56	2.4	2>	55
174	GD174	4773.130	1423.710	1>	1>	73	7	35	8	42	.34	.23	210	1	.04	12	2>	.014	2.7	25	.24	2.2	2>	27
175	GD175	4773.260	1423.010	2	1>	35	30	665	8	52	.05	.36	103	1>	.01	279	5	.012	2.5	9	.20	1.8	2>	26
176	GD176	4773.680	1423.650	39	1>	9	222	4453	29	122	.01>	11.48	2243	1>	.03	4083	2>	.013	11.5	1>	.04	.2>	2>	158
177	GD177	4773.740	1423.160	1>	1>	61	36	334	18	47	.11	.35	367	1>	.16	175	2	.014	2.4	17	.43	1.4	2>	44
178	GD178	4774.050	1423.910	38	1>	19	193	5423	39	116	.01>	12.39	1956	1>	.02	4145	2>	.015	10.0	3	.04	.2>	2>	169
179	GD179	4774.390	1423.430	1>	1>	118	5	44	10	62	.52	.27	5>	1>	.06	15	7	.013	3.6	26	.27	2.4	2>	40
180	GD180	4774.880	1423.850	14	2	96	30	203	24	47	.43	.62	408	1>	.13	91	8	.011	8.7	17	1.20	3.0	2>	54
181	GD181	4774.800	1423.160	1>	1>	138	3	56	12	33	.70	.39	5>	1>	.08	12	8	.009	3.8	34	.35	2.8	2>	42
182	GD182	4765.590	1422.900	1>	1>	63	77	486	74	44	.03	2.83	1888	1>	1.00	192	2>	.038	14.3	68	.87	.2	2>	94
183	GD183	4765.470	1422.550	1>	4	11	22	325	57	55	.01>	.43	92	1>	.17	58	2>	.012	10.2	5	.69	.4	2>	45
184	GD184	4765.320	1422.110	1>	1>	24	54	296	52	49	.02	2.95	1195	1>	1.66	81	2>	.034	3.0	115	.25	.2	2>	65
185	GD185	4765.870	1422.240	7	1>	24	48	250	44	60	.01>	1.29	894	1	1.06	59	2>	.020	4.0	65	.30	.4	2>	49
186	GD186	4766.240	1422.800	1>	1>	18	62	340	70	82	.01>	2.36	1536	1>	1.93	83	2>	.045	12.7	156	.86	.2>	2>	72
187	GD187	4766.430	1422.130	1>	1>	19	47	313	33	40	.01>	.34	1564	1>	.73	59	2>	.019	9.4	36	.58	.2	2>	43
188	GD188	4766.840	1422.580	1>	1>	11	9	249	42	53	.02	.14	5>	1	.07	45	2>	.019	5.8	2	.74	.4	2>	39
189	GD189	4766.880	1422.110	1>	3	11	1>	112	8	77	.01>	.04	5>	1>	.01	14	2>	.014	2.6	7	.30	1.6	2>	12
190	GD190	4767.080	1422.880	1>	2	28	110	402	83	71	.01	.39	4195	2	.59	126	2>	.023	12.2	26	1.31	.2	2>	74
191	GD191	4767.400	1422.520	1>	4	13	67	278	65	85	.01>	.23	1004	1>	.10	67	2>	.024	5.8	8	.84	.6	2>	55
192	GD192	4767.620	1422.070	1	1>	16	4	191	17	81	.01>	.06	5>	1>	.03	34	2>	.017	4.8	7	.50	1.0	2>	21
193	GD193	4767.760	1422.890	1>	1>	80	100	328	105	92	.01>	.26	4739	2	.06	87	2>	.017	4.1	4	1.08	.4	2>	94
194	GD194	4768.230	1422.590	1>	1>	21	40	196	51	55	.01>	.14	1584	1	.04	50	2>	.017	2.8	6	.69	1.0	2>	51
195	GD195	4768.140	1422.050	11	1>	179	22	89	81	58	1.47	.89	259	4	.16	94	2>	.015	3.8	49	.43	2.8	2>	111
196	GD196	4768.750	1422.800	1>	1>	45	162	1461	60	102	.01>	5.13	4471	1>	.45	757	2>	.027	24.2	24	1.09	.6	2>	123
197	GD197	4768.700	1422.160	14	1>	123	3	69	21	54	.67	.38	5>	2	.08	19	8	.013	2.1	43	.44	2.8	2>	51
198	GD198	4769.150	1422.750	1>	1>	36	54	321	70	67	.01	1.82	1946	1>	2.04	126	2>	.042	10.8	150	.81	.2	2>	97
199	GD199	4769.190	1422.070	28	1>	912	14	89	23	44	1.21	.68	5>	3	.26	38	3	.016	3.5	71	.50	2.8	2>	89
200	GD200	4769.840	1422.740	1>	1>	27	78	242	60	116	.01>	.30	5215	1>	.07	83	2>	.028	10.8	3	1.13	.4	2>	63

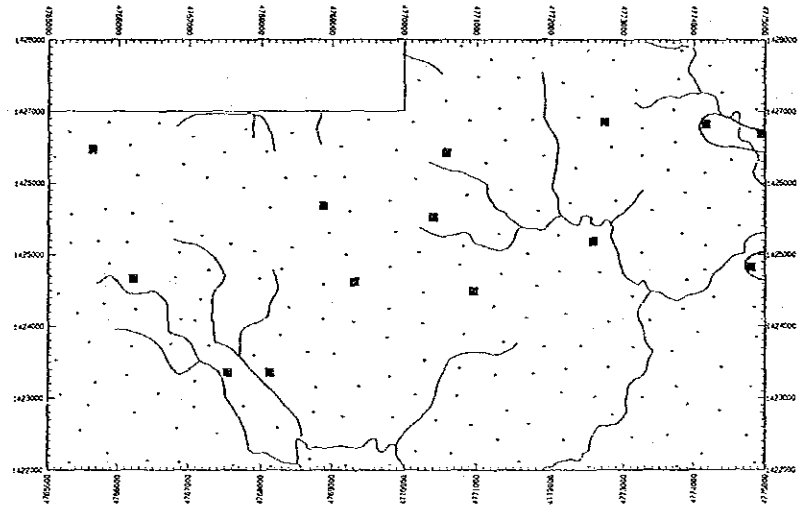
List of Geochemical Analysis(5)

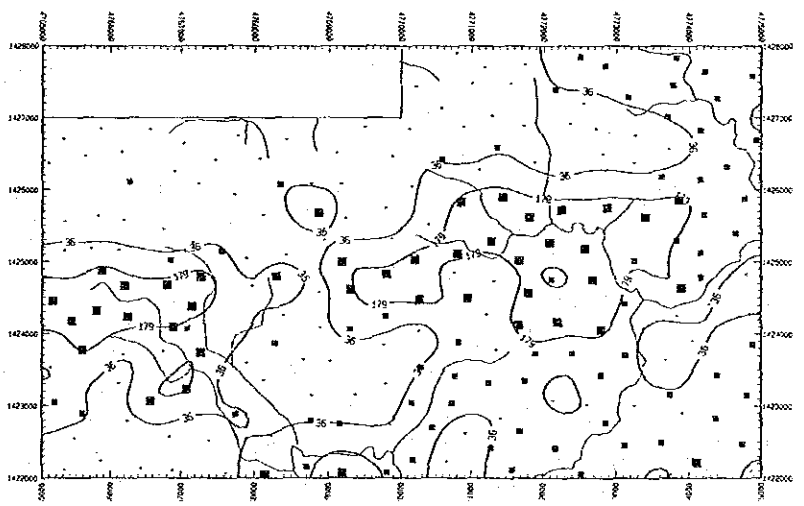
Ser. No.	Sample No.	Location(km) X-coord	Location(km) Y-coord	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
201	GD201	4769.800	1422.080	1>	1>	166	107	659	48	64	.77	.97	4276	1>	.06	140	2>	.021	30.2	32	4.76	1.8	2>	171
202	GD202	4770.170	1422.260	16	1>	119	14	143	28	25	.84	.56	5>	1	.07	86	7	.012	.2>	32	.43	2.8	2>	62
203	GD203	4770.440	1422.700	1>	1>	90	6	63	14	33	.47	.39	5>	1>	.04	22	7	.010	3.1	33	.34	2.6	2>	41
204	GD204	4770.660	1422.230	27	4	7	297	8303	75	194	.01>	.23	1411	1>	.08	5711	2>	.040	44.0	2	.14	.6	2>	211
205	GD205	4770.920	1422.630	24	1>	6	225	2653	23	66	.01>	8.53	2331	1>	.01>	3889	2>	.008	8.6	1>	.01	.2	2>	119
206	GD206	4771.290	1422.420	2	1>	39	367	6588	33	146	.01>	7.77	4512	1>	.02	4623	2>	.018	24.6	5	.07	.2	2>	180
207	GD207	4771.420	1422.830	8	3	34	312	8419	77	228	.01	.16	2294	1>	.10	3986	2>	.052	47.5	5	.15	.8	2>	184
208	GD208	4771.580	1422.120	6	1>	128	13	78	13	32	.66	.40	5>	2	.07	49	2>	.012	2.8	37	.35	2.4	2>	44
209	GD209	4771.690	1422.650	14	1>	168	115	1587	36	73	.44	3.08	2624	1>	.41	1343	5	.016	13.6	23	.64	1.8	2>	108
210	GD210	4772.140	1423.080	1>	1>	21	54	403	71	42	.01>	3.58	1070	1>	.98	149	2>	.040	8.0	98	.32	.2>	2>	69
211	GD211	4772.170	1422.420	2	1>	100	5	49	8	32	.47	.28	5>	1>	.04	11	2>	.009	2.2	29	.28	2.2	2>	30
212	GD212	4772.520	1422.050	1>	1>	89	1>	43	9	26	.39	.28	5>	1	.03	15	4	.011	.9	23	.27	2.4	2>	35
213	GD213	4772.850	1422.770	1>	1>	75	76	370	65	32	.52	3.36	1326	1>	.20	423	2>	.015	16.2	12	2.10	.8	2>	134
214	GD214	4773.120	1422.460	9	1>	70	2	63	11	31	.21	.21	5>	1>	.02	15	2>	.009	4.9	20	.43	2.2	2>	30
215	GD215	4773.620	1422.490	4	1>	96	4	45	12	43	.38	.27	5>	1	.03	12	2>	.010	4.2	23	.28	2.4	2>	37
216	GD216	4773.750	1422.050	1>	1>	19	62	270	91	34	.19	2.86	1520	1>	1.37	106	2>	.029	9.5	81	.97	.2>	2>	110
217	GD217	4773.910	1422.910	1>	1>	21	25	237	114	10>	.01	2.35	420	1>	.67	84	2>	.012	8.2	41	.67	.2>	2>	129
218	GD218	4774.110	1422.220	1>	1>	186	32	88	41	69	.24	1.87	1740	1>	1.19	37	2>	.027	15.4	132	1.48	.6	2>	105
219	GD219	4774.370	1422.830	1>	1>	71	40	168	92	49	.26	1.99	1431	1>	1.02	79	2>	.020	13.1	61	.78	.6	2>	98
220	GD220	4774.740	1422.480	2	1>	66	38	274	84	31	.10	2.21	1399	1>	1.34	104	2>	.020	12.7	60	.89	.2	2>	133
221	GD221	4774.860	1422.100	1>	1>	26	14	21	4	64	.01	.56	466	1>	3.07	8	2>	.013	6.7	100	.65	.2	2>	35

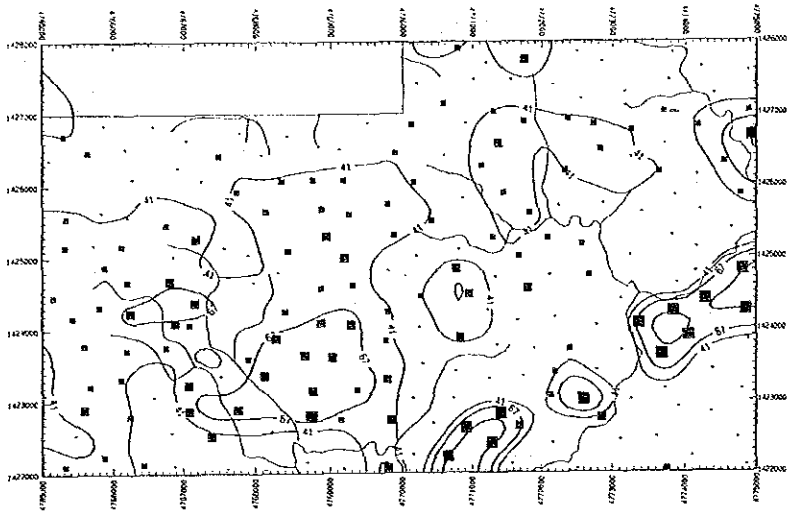
Appendix 32

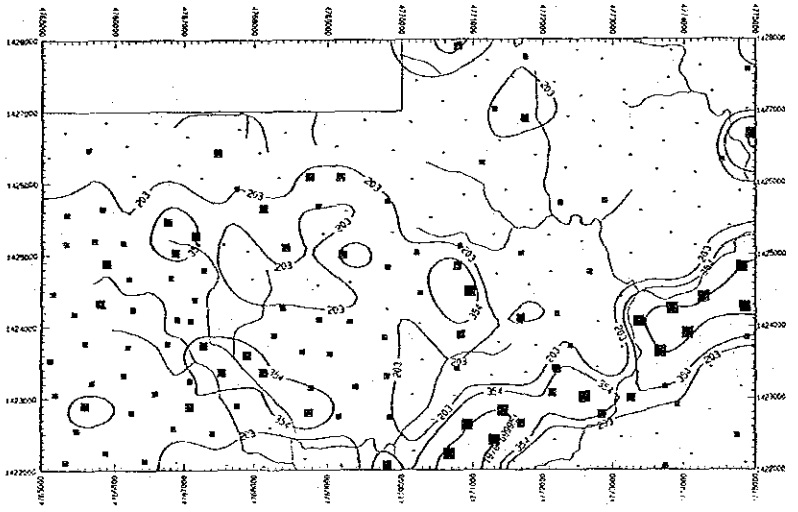
Distribution map of elements in Area D

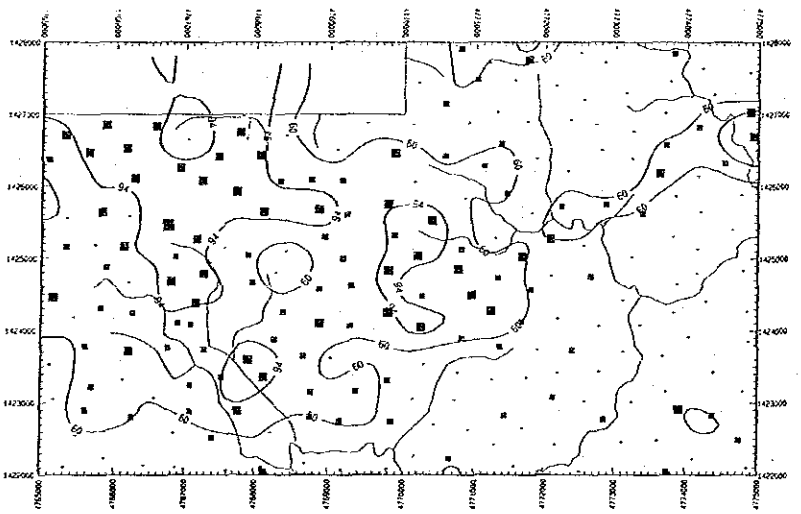

As
9.700

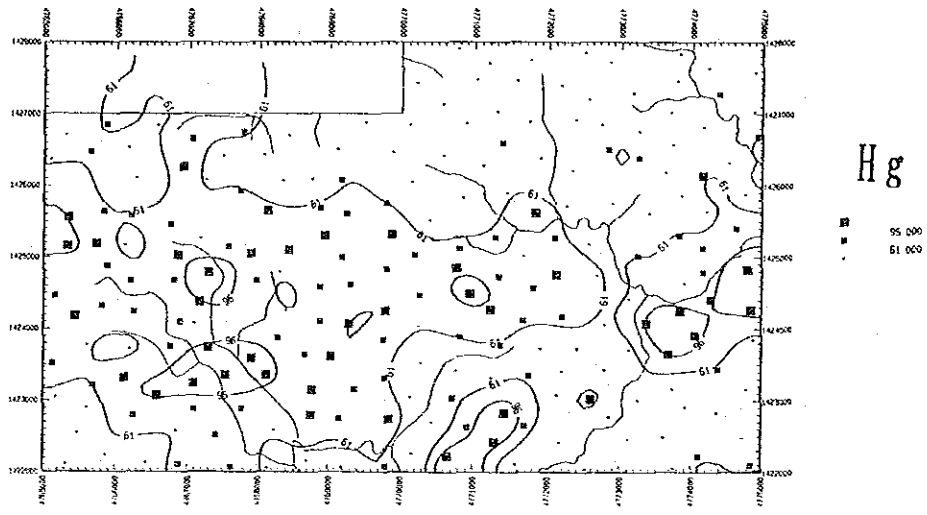

Au
5.400

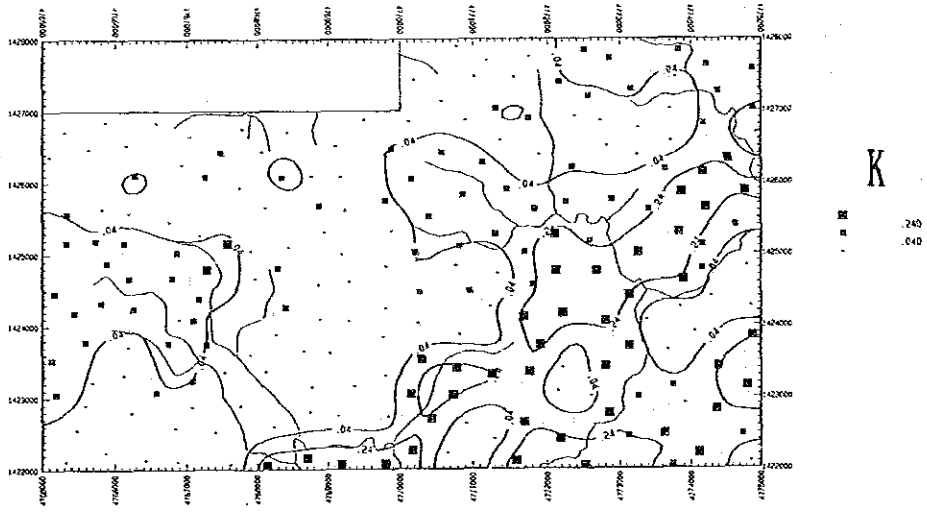

Ba
179.000
35.000

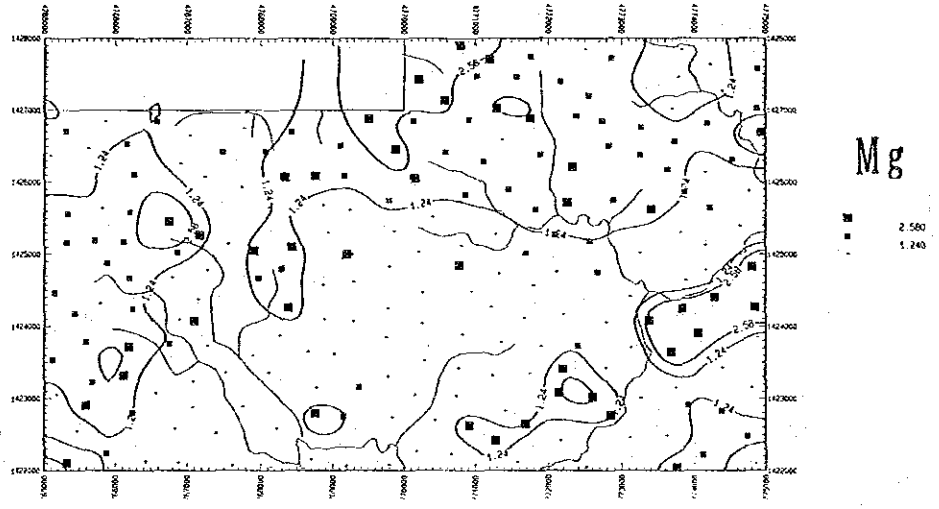

Co
150.000
67.000
41.000

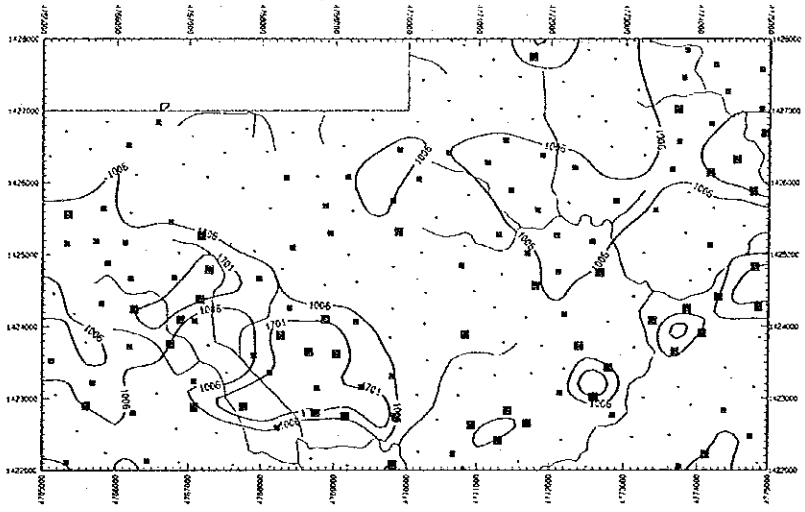

Cr
1978.000
354.000
203.000

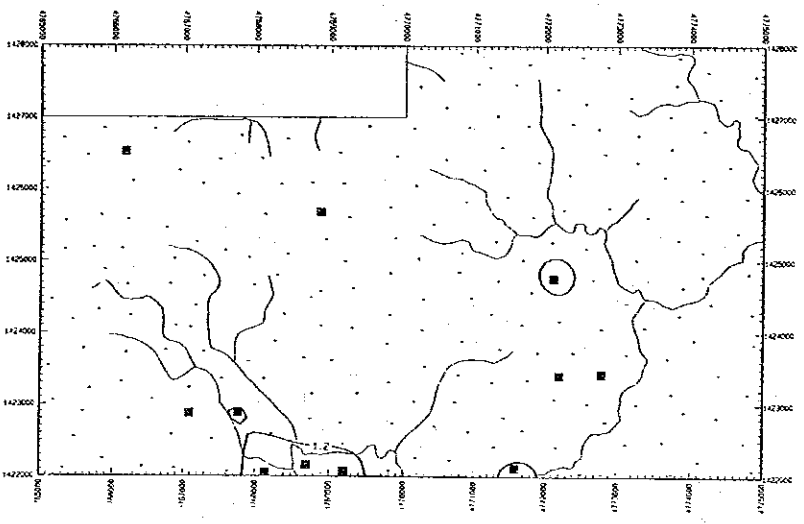

Cu
378.000
94.000
60.000

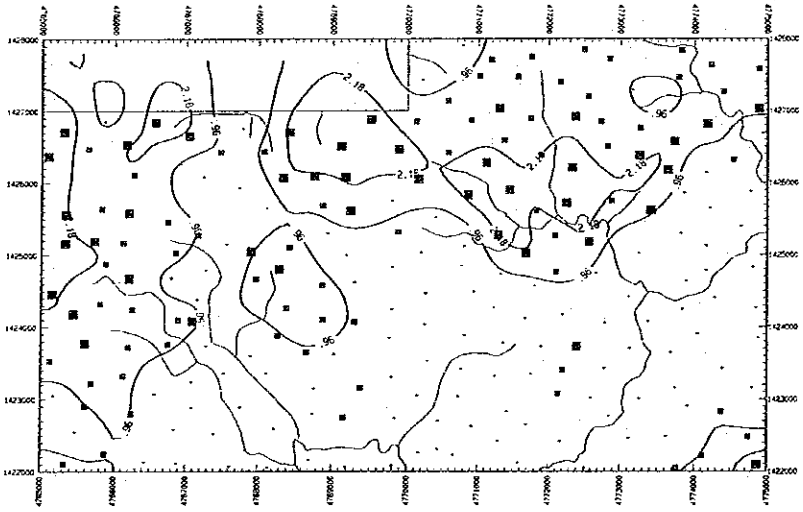

Hg
95.000
61.000

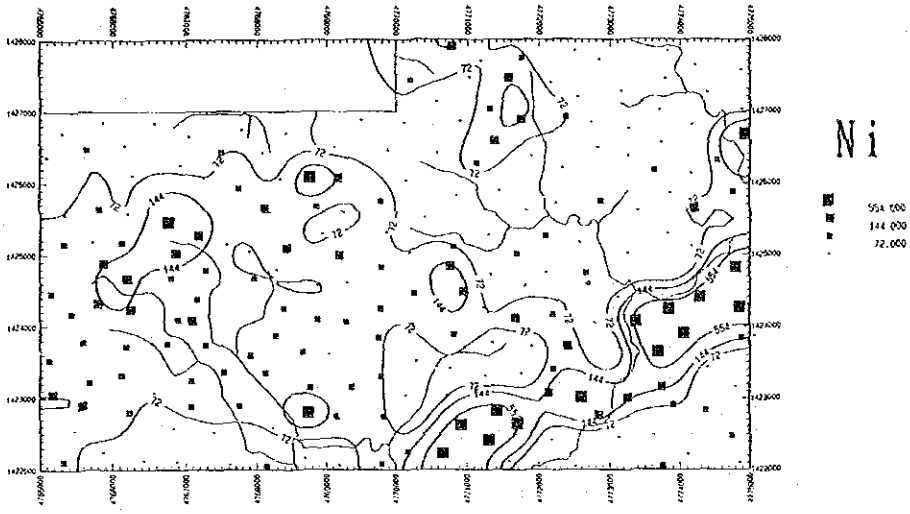

K
.240
.040

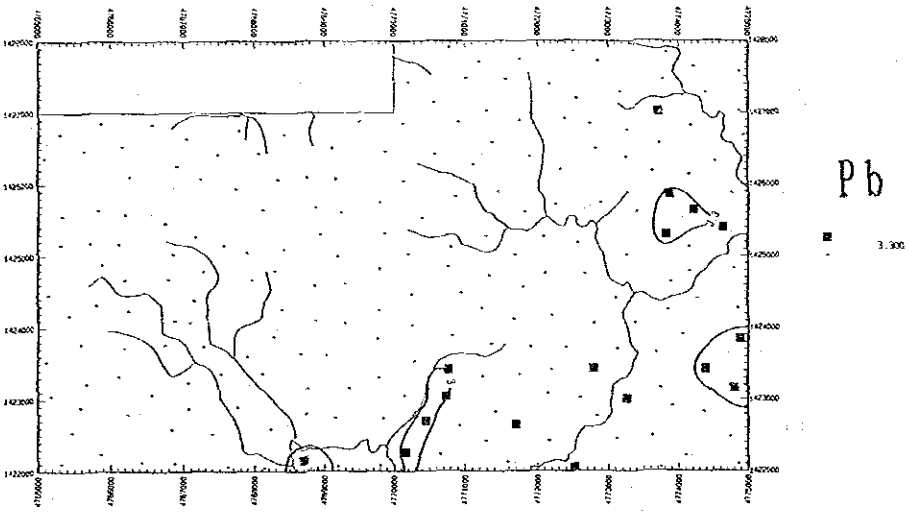

Mg
2.580
1.240

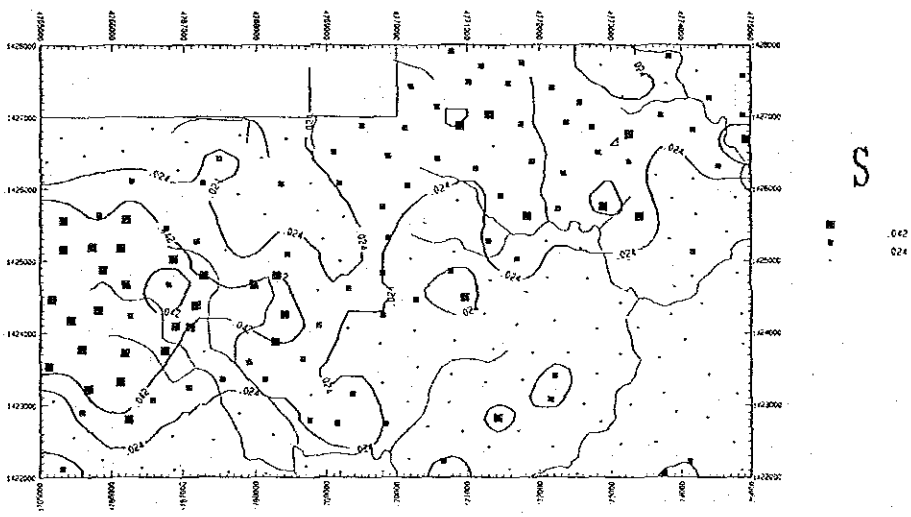

Mn
1701.000
1065.000

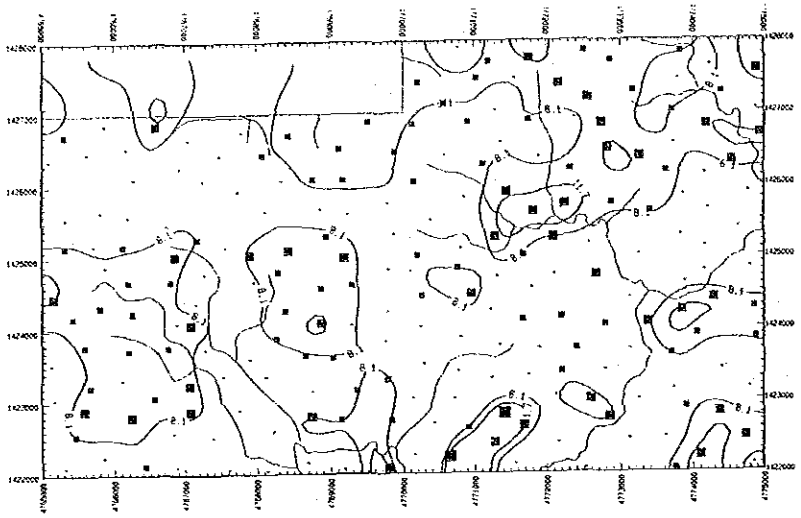

Mo
1.200

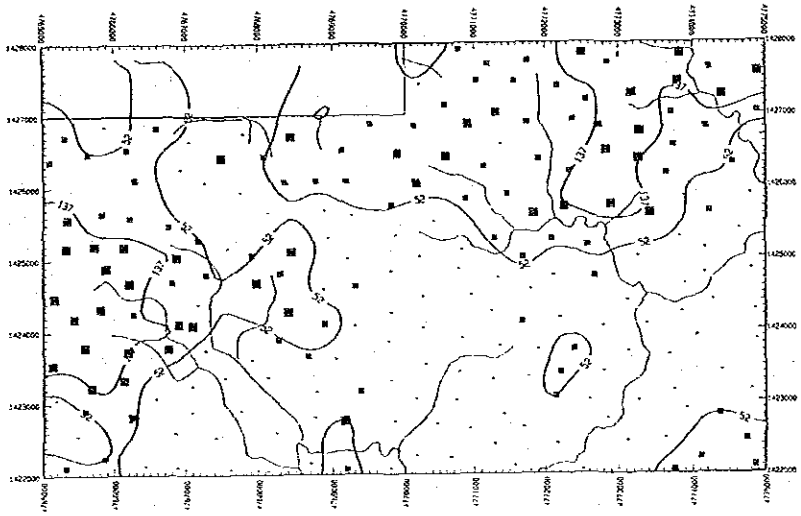

Na
2.180
.960

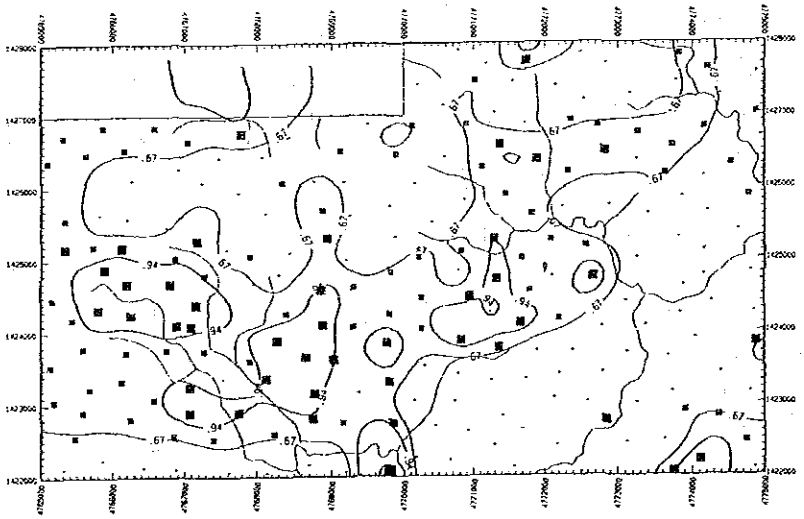

Ni
55A 000
144 000
72.000

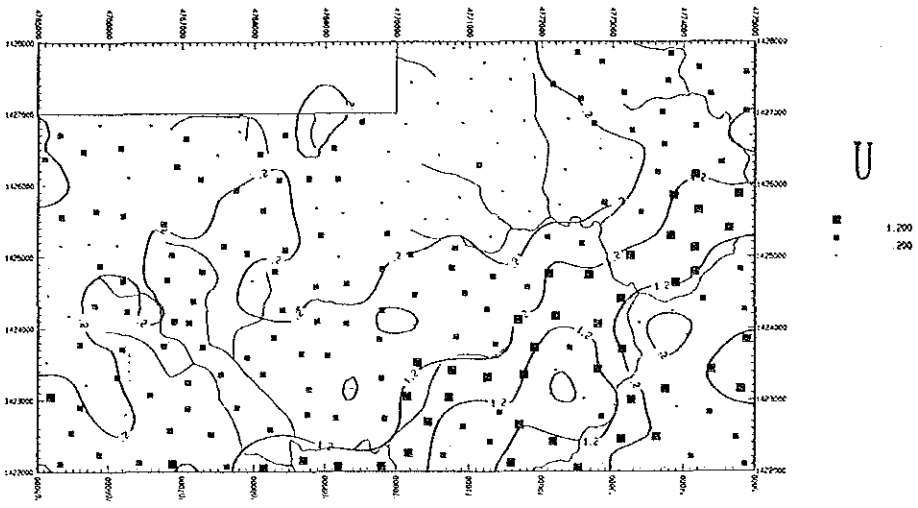

Pb
3.300

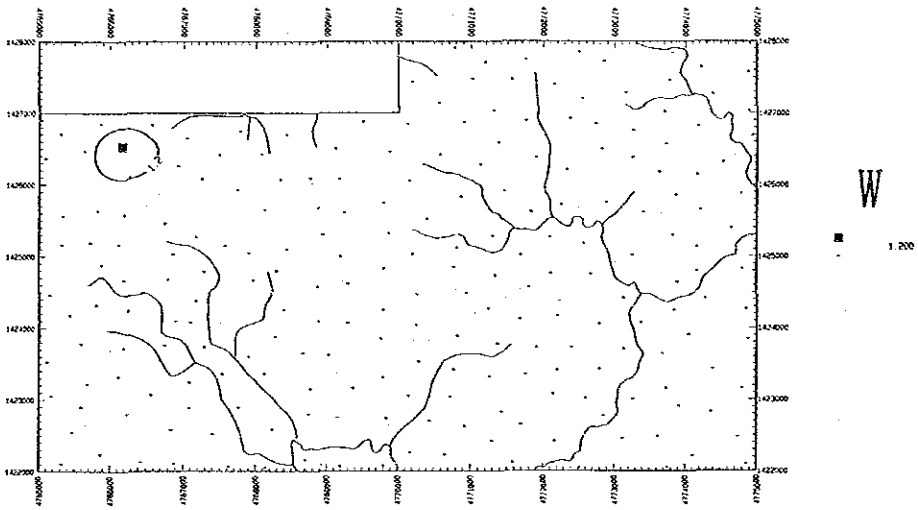

S
.042
024

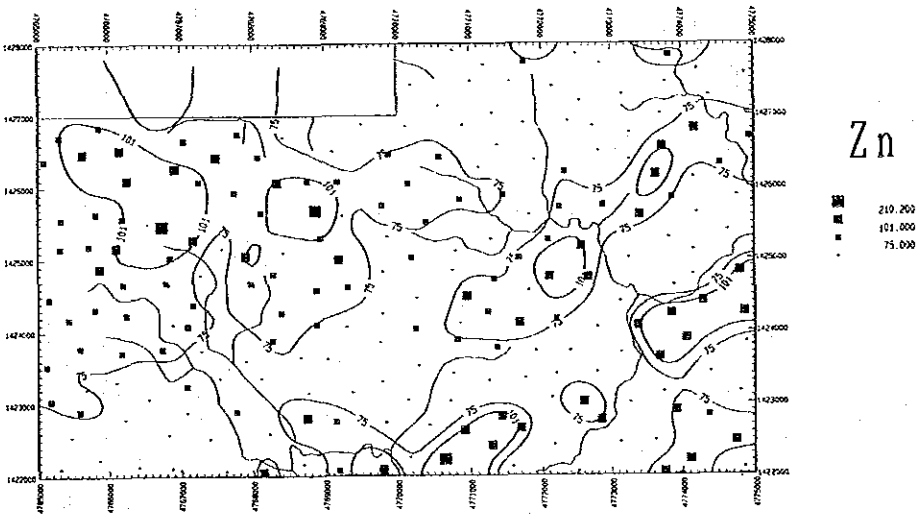

Sb
36.500
11.700
8.100


Sr
137.000
52.000


Ti
2.504
.940
.670


U
1.200
.200


W
1.200


Zn
210.200
101.000
75.000

Appendix 33

List of soil geochemical samples
in Area E

Area: S. Kalumpang Area (Area E)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
1	PE001	1403.58	4774.51	S. Tingkayu	—	P_4Km	40	R.B.	R	C	M	W	Secondary forest
2	PE002	1403.13	4774.64	S. Tingkayu	and. boulder	P_4Km	40	R.B.	R	C	F	W	Secondary forest
3	PE003	1403.62	4775.09	S. Tingkayu	—	P_4Km	40	R.Y.	R	C	F	W	Secondary forest
4	PE004	1403.80	4775.45	S. Tingkayu	—	P_4Km	40	R.B.	R	C	F	W	Secondary forest
5	PE005	1403.21	4775.56	S. Tingkayu	—	P_4Km	40	Y.B.	R	C	F	W	Secondary forest
6	PE006	1403.48	4775.87	S. Tingkayu	—	P_4Km	40	L.B.	R	C	M	W	Secondary forest
7	PE007	1403.75	4776.32	S. Tingkayu	—	P_4Km	40	Y.	R	C	M	W	Secondary forest
8	PE008	1403.71	4776.91	S. Tingkayu	—	P_4Km	40	Y.R.	R	C	F	W	Secondary forest
9	PE009	1403.23	4776.20	S. Tingkayu	—	P_4Km	40	L.B.	R	C	F	W	Secondary forest
10	PE010	1403.42	4776.85	S. Tingkayu	—	P_4Km	40	Y.R.	R	C	F	W	Secondary forest
11	PE011	1403.29	4777.19	S. Tingkayu	—	P_4Km	40	R.Y.	R	C	F	W	Secondary forest
12	PE012	1402.73	4774.70	S. Tingkayu	and. boulder	P_4Km	40	L.B.	R	C	M	W	Secondary forest
13	PE013	1402.81	4775.37	S. Tingkayu	and. boulder	P_4Km	40	Y.B.	R	C	F	W	Secondary forest
14	PE014	1402.49	4775.54	S. Tingkayu	—	P_4Km	30	Y.B.	F	C	F	W	Secondary forest
15	PE015	1402.33	4775.19	S. Tingkayu	and. boulder	P_4Km	40	D.B.	R	S	F	W	Secondary forest
16	PE016	1402.09	4775.79	S. Tingkayu	—	P_4Km	40	Y.B.	F	C	F	W	Secondary forest
17	PE017	1402.88	4776.30	S. Tingkayu	—	P_4Km	40	Y.	R	C	M	W	Secondary forest
18	PE018	1402.67	4776.59	S. Tingkayu	—	P_4Km	40	R.Y.	R	C	M	W	Secondary forest
19	PE019	1402.28	4776.25	S. Tingkayu	—	An_1	40	D.B.	F	C	M	W	Secondary forest
20	PE020	1402.29	4776.82	S. Tingkayu	—	An_1	40	D.B.	F	C	S	W	Secondary forest
21	PE021	1402.90	4777.27	S. Tingkayu	—	P_4Km	40	R.Y.	R	C	M	W	Secondary forest
22	PE022	1402.32	4777.23	S. Tingkayu	—	An_1	40	Y.B.	R	C	S	W	Secondary forest
23	PE023	1402.28	4777.59	S. Tingkayu	—	An_1	40	Y.B.	R	C	S	W	Secondary forest
24	PE024	1401.81	4775.33	S. Tingkayu	and. boulder	P_4Km	40	R.Y.	F	C	F	W	Secondary forest
25	PE025	1401.88	4775.63	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
26	PE026	1401.33	4775.50	S. Tingkayu	and. boulder	An_1	40	Y.	R	C	F	W	Secondary forest
27	PE027	1401.86	4776.16	S. Tingkayu	andesite	An_1	40	Y.B.	R	C	M	D	Secondary forest
28	PE028	1401.74	4776.51	S. Tingkayu	andesite	An_1	40	D.B.	R	C	F	W	Secondary forest
29	PE029	1401.16	4776.12	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
30	PE030	1401.51	4776.83	S. Tingkayu	and. w/pyrite	An_1	40	D.B.	M	S	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)

Area: S. Kalumpang Area (Area E)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
31	PE031	1401.78	4777.20	S. Tingkayu	alt. andesite	An_1	40	Y.B.	R	C	M	D	Secondary forest
32	PE032	1401.45	4777.33	S. Tingkayu	agglomerate	An_1	40	Y.B.	F	C	M	W	Secondary forest
33	PE033	1401.80	4777.82	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
34	PE034	1401.12	4777.38	S. Tingkayu	—	An_1	30	Y.B.	F	C	M	W	Secondary forest
35	PE035	1401.56	4778.06	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
36	PE036	1401.20	4778.26	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
37	PE037	1400.87	4775.68	S. Tingkayu	and. boulder	An_1	40	Y.B.	R	C	F	W	Secondary forest
38	PE038	1400.56	4776.10	S. Tingkayu	alt. andesite	An_1	40	D.B.	R	C	M	W	Secondary forest
39	PE039	1400.47	4776.47	S. Tingkayu	agglomerate	An_1	40	Y.B.	F	C	M	W	Secondary forest
40	PE040	1400.71	4776.84	S. Tingkayu	sili. andesite	An_1	40	D.B.	F	C	S	W	Secondary forest
41	PE041	1400.16	4776.15	S. Tingkayu	and. boulder	An_1	40	Y.B.	R	C	M	W	Secondary forest
42	PE042	1400.60	4777.29	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
43	PE043	1400.64	4777.68	S. Tingkayu	—	An_1	40	Y.B.	F	S	M	D	Secondary forest
44	PE044	1400.17	4777.39	S. Tingkayu	—	An_1	30	Y.B.	R	C	M	W	Secondary forest
45	PE045	1400.18	4777.81	S. Tingkayu	andesite	An_1	30	Y.B.	F	C	S	W	Secondary forest
46	PE046	1400.72	4778.38	S. Tingkayu	—	An_1	40	D.B.	R	C	M	W	Secondary forest
47	PE047	1400.32	4778.24	S. Tingkayu	—	An_1	30	Y.B.	R	C	M	W	Secondary forest
48	PE048	1400.16	4778.56	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
49	PE049	1399.87	4776.55	S. Tingkayu	agglomerate	An_1	40	Y.B.	F	C	S	W	Secondary forest
50	PE050	1399.52	4776.33	S. Tingkayu	alt. andesite	An_1	40	R.B.	R	C	M	W	Secondary forest
51	PE051	1399.59	4776.76	S. Tingkayu	sili. andesite	An_1	40	D.B.	F	C	S	W	Secondary forest
52	PE052	1399.39	4777.19	S. Tingkayu	sili. andesite	An_1	40	Y.B.	F	C	M	W	Secondary forest
53	PE053	1399.12	4777.32	S. Tingkayu	agglomerate	An_1	40	Y.B.	F	C	M	W	Secondary forest
54	PE054	1399.71	4777.89	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
55	PE055	1399.36	4777.83	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
56	PE056	1399.81	4778.24	S. Tingkayu	and. w/pyrite	An_1	40	Y.B.	R	C	M	W	Secondary forest
57	PE057	1399.83	4778.69	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
58	PE058	1399.26	4778.31	S. Tingkayu	andesite	An_1	40	Y.B.	R	C	M	W	Secondary forest
59	PE059	1399.41	4778.78	S. Tingkayu	andesite	An_1	40	Y.B.	R	C	M	W	Secondary forest
60	PE060	1399.39	4779.05	S. Tingkayu	—	An_1	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)

Area: S. Kalumpang Area (Area E)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
61	PE061	1398.68	4776.82	S. Tingkayu	sili. andesite	An_1	40	R.Y.	F	C	M	W	Secondary forest
62	PE062	1398.26	4777.15	S. Tingkayu	sili. andesite	An_1	40	R.Y.	R	C	M	W	Secondary forest
63	PE063	1398.70	4777.30	S. Tingkayu	agglomerate	An_1	40	R.B.	F	C	M	W	Secondary forest
64	PE064	1398.88	4777.89	S. Tingkayu	and. boulder	An_1	30	Y.B.	R	C	M	W	Secondary forest
65	PE065	1398.25	4777.58	S. Tingkayu	—	An_1	40	Y.	R	C	M	W	Secondary forest
66	PE066	1398.40	4778.11	S. Tingkayu	—	An_1	40	Y.B.	R	C	F	W	Secondary forest
67	PE067	1398.73	4778.25	S. Tingkayu	andesite	An_1	40	Y.B.	R	C	M	W	Secondary forest
68	PE068	1398.16	4778.45	S. Tingkayu	—	An_1	40	Y.B.	M	C	M	W	Secondary forest
69	PE069	1398.48	4778.84	S. Tingkayu	—	An_1	30	Y.B.	R	C	M	W	Secondary forest
70	PE070	1398.46	4779.15	S. Tingkayu	—	An_1	40	Y.B.	R	C	M	W	Secondary forest
71	PE071	1398.82	4779.26	S. Tingkayu	—	An_1	30	Y.B.	R	C	M	W	Secondary forest
72	PE072	1398.23	4779.57	S. Tingkayu	—	An_1	40	R.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)

Appendix 34

Analytical results of soil
geochemical samples in Area E

List of Geochemical Analysis(1)

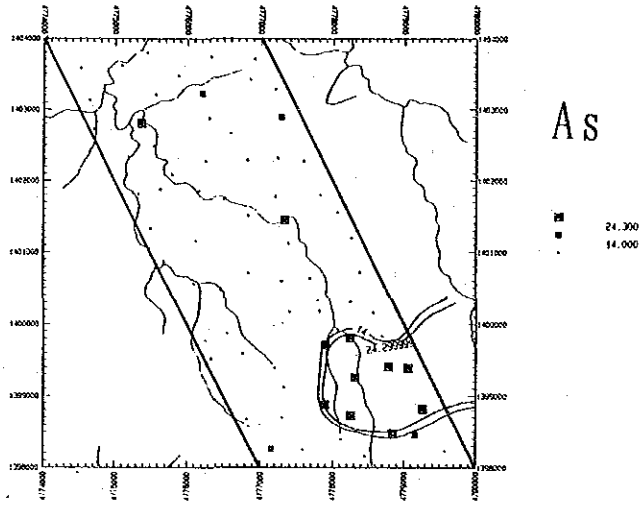
Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
1	PE001	4774.510	1403.580	1>	1>	108	26	19	20	96	.22	.26	2489	1>	.07	7	8	.011	4.4	6	.64	1.0	2>	44
2	PE002	4774.640	1403.130	1>	1>	202	22	84	29	25	.48	.69	900	1>	.33	48	2	.014	2.5	54	.52	1.2	2>	62
3	PE003	4775.090	1403.620	2	1>	47	7	73	35	152	.08	.22	5>	1>	.13	22	7	.020	.8	8	1.07	1.8	2>	49
4	PE004	4775.450	1403.800	1>	1>	124	58	28	87	85	.07	.65	901	1>	.16	20	2>	.014	4.7	12	.71	.6	2>	84
5	PE005	4775.560	1403.210	1>	1>	91	43	16	117	50	.06	.77	750	1>	.16	10	2>	.013	5.6	14	.56	.4	2>	79
6	PE006	4775.870	1403.480	1>	1>	101	47	40	86	46	.04	.53	106	1>	.14	23	2>	.011	.2>	12	.55	.6	2>	79
7	PE007	4776.320	1403.750	1>	1>	84	2	68	27	82	.40	.19	5>	1>	.06	17	5	.012	.6	32	.44	1.8	2>	41
8	PE008	4776.910	1403.710	4	1>	83	6	90	18	46	.43	.38	5>	1>	.05	28	8	.007	1.2	23	.48	1.8	2>	47
9	PE009	4776.200	1403.230	23	1>	38	6	48	13	77	.04	.11	5>	1>	.03	17	6	.010	.3	15	.71	2.2	2>	31
10	PE010	4776.850	1403.420	1>	2	104	28	67	35	33	.41	.42	861	1>	.14	37	4	.010	6.2	27	.47	1.6	2>	69
11	PE011	4777.190	1403.290	5	1>	81	2	89	20	68	.40	.31	5>	1>	.04	31	2>	.010	2.0	19	.41	1.6	2>	35
12	PE012	4774.700	1402.730	5	1>	78	23	43	61	154	.06	.24	94	3	.14	19	2>	.023	.2>	9	.91	1.4	2>	80
13	PE013	4775.370	1402.810	57	1>	159	24	79	36	87	.52	.86	706	2	.27	36	24	.026	10.1	41	.79	1.8	2>	76
14	PE014	4775.540	1402.490	10	1>	89	7	95	21	77	.38	.35	5>	1>	.04	28	15	.016	7.1	27	.64	2.2	2>	45
15	PE015	4775.190	1402.330	1>	1>	233	29	67	45	46	.43	.69	1011	1>	.29	36	2>	.029	5.3	67	.97	1.6	2>	81
16	PE016	4775.790	1402.090	1>	1>	137	20	111	32	56	1.04	.96	342	1>	.30	71	4	.012	5.2	38	.48	1.8	2>	74
17	PE017	4776.300	1402.880	2	1>	77	5	110	21	41	.39	.33	5>	1>	.06	28	2>	.013	9.8	21	.46	1.8	2>	44
18	PE018	4776.590	1402.670	1>	1>	85	3	100	29	55	.55	.44	5>	1>	.07	35	2>	.012	1.4	22	.51	1.8	2>	54
19	PE019	4776.250	1402.280	1>	1>	228	28	32	42	30	.68	.67	830	2	.48	15	2>	.016	10.1	87	.45	1.4	2>	64
20	PE020	4776.820	1402.290	1>	1>	337	29	27	35	110	.99	.64	2106	1>	.52	15	3	.026	6.4	78	.52	1.6	2>	76
21	PE021	4777.270	1402.900	15	1>	95	5	89	23	62	.60	.44	5>	1>	.09	31	45	.013	12.6	27	.47	2.0	2>	45
22	PE022	4777.230	1402.320	1>	1>	113	11	49	39	41	.08	.07	5>	1>	.17	16	2>	.029	.2>	10	.95	2.4	2>	59
23	PE023	4777.590	1402.280	6	1>	87	12	37	35	86	.06	.20	5>	3	.18	18	5	.016	2.1	7	.49	2.0	4	51
24	PE024	4775.330	1401.810	1>	1>	108	10	71	31	55	.43	.49	549	1>	.18	29	6	.020	7.0	58	.67	1.6	2>	60
25	PE025	4775.630	1401.880	13	181	60	40	61	43	56	.13	.53	500	3	.17	26	2>	.021	6.3	17	.77	2.0	2>	77
26	PE026	4775.500	1401.330	1>	1>	83	17	67	25	74	.17	.30	11	2	.09	24	8	.015	5.0	18	1.14	2.2	2>	54
27	PE027	4776.160	1401.860	1>	1	370	32	64	42	29	.62	1.13	1116	3	.44	30	4	.037	11.8	169	.47	1.6	2>	81
28	PE028	4776.510	1401.740	13	1>	324	42	51	38	95	.24	.30	753	1>	.20	22	6	.021	9.5	60	.90	2.2	2>	73
29	PE029	4776.120	1401.160	1>	2	276	27	51	40	43	.71	.87	1583	1>	.57	16	2	.016	3.7	92	.52	1.6	2>	60
30	PE030	4776.830	1401.510	2	1>	284	21	45	36	46	.67	.77	328	1>	.59	17	4	.032	7.5	130	.58	1.8	2>	66
31	PE031	4777.200	1401.780	2	1>	65	52	36	42	12	.05	.08	121	2	.22	15	2>	.015	2.4	11	.60	2.6	2>	55
32	PE032	4777.330	1401.450	27	2	122	23	35	63	105	.03	.30	5>	1	.18	17	2>	.033	2.3	13	.84	1.8	2>	55
33	PE033	4777.820	1401.800	4	2	74	13	56	76	71	.02	.14	5>	2	.21	24	2>	.034	.4	18	.97	2.4	2>	51
34	PE034	4777.380	1401.120	1>	4	120	17	26	93	60	.10	.27	5>	1	.25	18	2>	.025	1.0	19	.73	1.8	2>	69
35	PE035	4778.060	1401.560	1>	1>	127	14	47	56	53	.02	.19	5>	1>	.23	17	5	.027	1.7	10	.80	1.6	2>	67
36	PE036	4778.260	1401.200	7	1>	90	8	37	39	65	.03	.23	5>	2	.24	11	4	.029	.2	23	.67	2.2	2>	53
37	PE037	4775.680	1400.870	1>	1>	185	35	80	53	51	.38	.70	629	1>	.23	43	2>	.025	5.0	39	.77	1.8	2>	79
38	PE038	4776.100	1400.560	1>	1>	174	44	44	44	79	.15	.80	1680	.2	.16	19	2>	.014	10.2	14	.84	1.8	2>	78
39	PE039	4776.470	1400.470	2	1>	230	39	59	38	99	.13	.67	503	2	.14	23	13	.034	10.6	68	.86	1.4	2>	79
40	PE040	4776.840	1400.710	1>	1>	307	22	34	34	67	.57	1.27	2585	1>	.59	12	2>	.030	9.4	130	.50	1.6	2>	59
41	PE041	4776.150	1400.160	6	1>	98	11	92	21	55	.32	.42	5>	1>	.10	35	3	.012	5.2	26	.49	1.8	2>	58
42	PE042	4777.290	1400.600	1>	26	118	12	29	51	71	.24	.46	5>	3	.21	11	2>	.011	1.9	11	.56	2.6	2>	49
43	PE043	4777.680	1400.640	1>	1>	272	23	25	50	55	.53	.66	2917	1>	.54	12	9	.016	5.2	82	.51	2.4	2>	61
44	PE044	4777.390	1400.170	1>	1>	60	12	39	84	154	.01	.18	5>	4	.25	20	10	.029	6.7	8	.78	3.8	2>	52
45	PE045	4777.810	1400.180	1>	1>	186	26	28	45	66	.25	.32	5>	1	.27	14	2>	.017	.2>	8	.53	3.0	2>	64
46	PE046	4778.380	1400.720	1>	1	76	7	51	46	176	.05	.05	5>	1>	.20	12	2>	.044	1.9	23	.73	2.4	2>	53
47	PE047	4778.240	1400.320	1>	1	57	6	129	48	149	.01	.31	5>	3	.17	19	2>	.026	.4	21	.84	2.2	2>	50
48	PE048	4778.560	1400.160	12	1>	29	10	26	33	62	.04	.38	5>	1>	.14	7	5	.012	5.1	9	.60	1.8	2>	50
49	PE049	4776.550	1399.870	1>	1>	159	40	46	37	43	.20	1.08	2345	1	.16	15	8	.014	6.4	51	.72	1.4	2>	72
50	PE050	4776.330	1399.520	1>	1>	258	37	42	64	53	.15	.73	1230	1	.16	16	4	.029	5.8	59	.73	1.4	2>	68

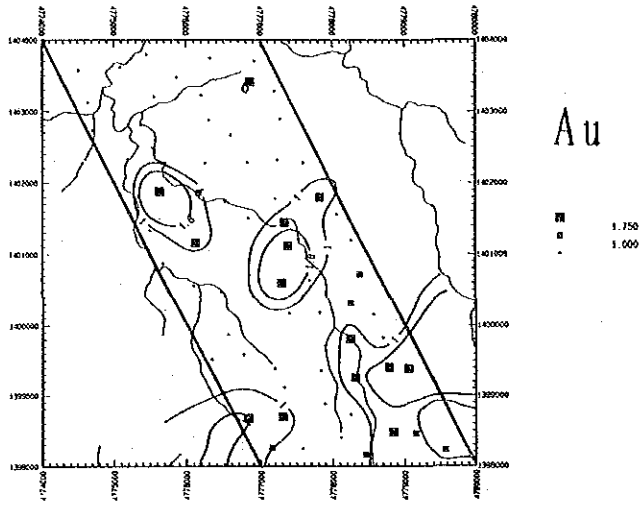
List of Geochemical Analysis(2)

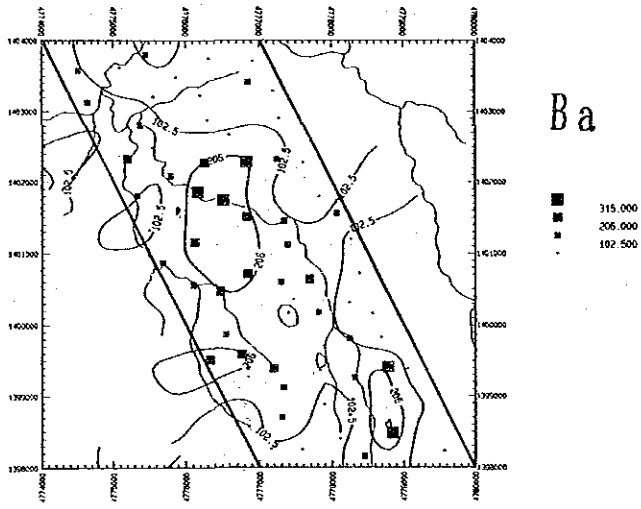
Ser. No.	Sample No.	Location(km) X-coord	Location(km) Y-coord	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
51	PE051	4776.760	1399.590	1	1>	250	27	51	55	78	.37	.80	632	3	.24	21	2>	.067	8.6	60	.71	1.8	2>	73
52	PE052	4777.190	1399.390	1>	1>	206	36	29	57	46	.39	.97	215	1>	.31	15	2>	.033	8.0	78	.61	1.8	2>	71
53	PE053	4777.320	1399.120	1>	1>	131	27	42	67	47	.21	.72	6	1	.21	19	2>	.061	7.2	47	.85	1.8	2>	66
54	PE054	4777.890	1399.710	41	1>	87	8	35	51	150	.04	.23	5>	3	.20	11	12	.028	3.5	27	.93	3.2	2>	51
55	PE055	4777.830	1399.360	6	1>	90	11	44	57	105	.07	.38	5>	1>	.20	15	12	.022	7.3	22	1.06	2.8	2>	56
56	PE056	4778.240	1399.810	98	2	130	23	34	57	205	.04	.63	182	1	.15	16	24	.034	5.5	12	.92	2.2	2>	69
57	PE057	4778.690	1399.830	2	1>	55	14	50	28	134	.02	.66	5>	1>	.12	7	2>	.028	5.9	8	.73	1.2	2>	50
58	PE058	4778.310	1399.260	1568	2	139	17	44	61	194	.06	.53	33	3	.16	15	243	.052	7.1	25	1.15	2.6	2>	65
59	PE059	4778.780	1399.410	6682	3	406	1>	74	40	199	.14	.24	5>	12	.11	10	1253	.428	16.0	299	2.90	5.2	21	32
60	PE060	4779.050	1399.390	526	34	54	3	60	73	129	.01	.03	5>	11	.12	6	130	.050	14.3	60	2.40	3.4	3	37
61	PE061	4776.820	1398.680	1>	2	71	12	31	52	122	.03	.48	5>	1>	.10	12	2>	.024	4.4	4	.95	1.2	2>	61
62	PE062	4777.150	1398.260	15	1	98	5	28	53	105	.03	.10	5>	2	.15	12	5	.044	4.6	5	.73	2.4	2>	56
63	PE063	4777.300	1398.700	1>	2	158	39	38	79	131	.02	.56	1939	1>	.11	15	6	.026	5.6	7	.92	1.4	2>	79
64	PE064	4777.890	1398.880	32	1>	98	8	38	52	123	.04	.37	5>	2	.12	14	11	.022	10.6	11	.94	2.4	2>	63
65	PE065	4777.580	1398.250	1>	1>	78	2	30	48	147	.03	.10	5>	1	.12	10	5	.031	4.6	3	.88	2.4	2>	51
66	PE066	4778.110	1398.400	1>	1>	88	10	61	45	162	.04	.07	5>	1	.13	12	2>	.024	.2>	12	1.02	2.2	2>	50
67	PE067	4778.250	1398.730	512	1>	50	26	44	62	100	.07	.55	5>	1	.13	23	60	.017	10.2	8	.76	1.8	2>	63
68	PE068	4778.450	1398.160	1	1	115	12	35	57	137	.12	.37	5>	1>	.17	14	2>	.104	.7	33	.69	2.4	2>	57
69	PE069	4778.840	1398.480	41	2	1274	3	39	49	254	.11	.08	5>	3	.38	12	4	.070	6.4	54	1.06	2.4	2>	58
70	PE070	4779.150	1398.460	14	1	46	4	34	49	193	.01>	.08	5>	1>	.12	12	2>	.044	5.8	28	.80	2.0	2>	35
71	PE071	4779.260	1398.820	31	1>	101	16	31	46	96	.01>	.16	35	1>	.12	11	3	.044	.2>	47	.59	1.8	2>	52
72	PE072	4779.570	1398.230	1>	1	80	17	48	59	162	.01	.17	336	1>	.14	17	2>	.033	4.2	13	.94	1.2	2>	69

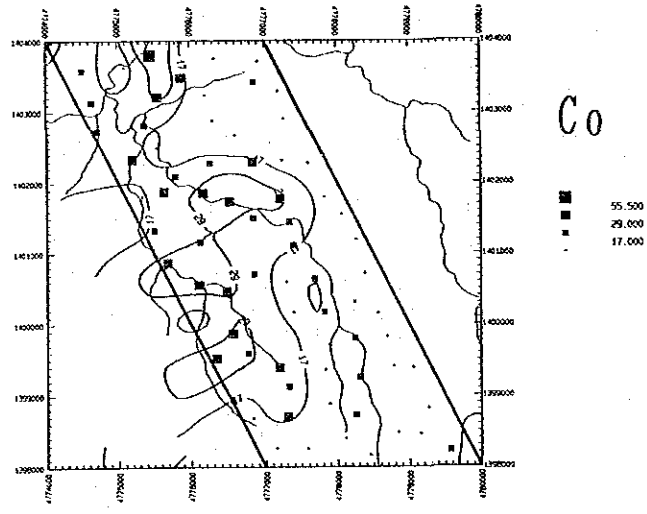
Appendix 35

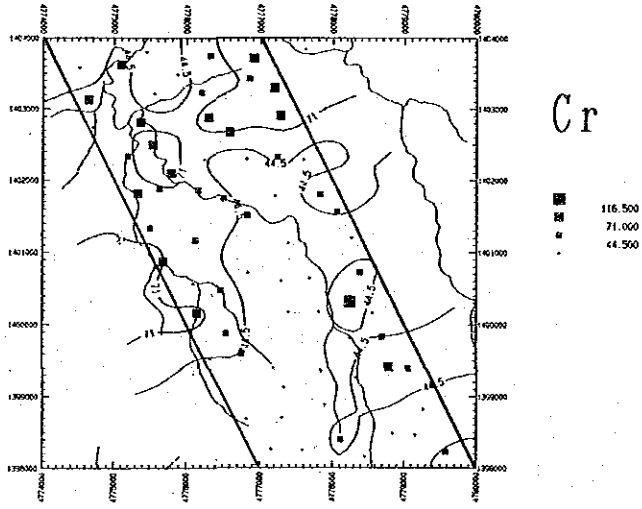
Distribution map of elements in Area E

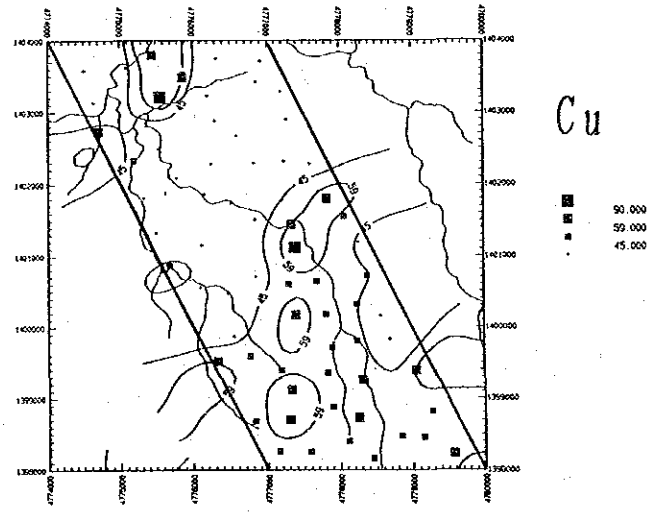

As
24.300
14.000

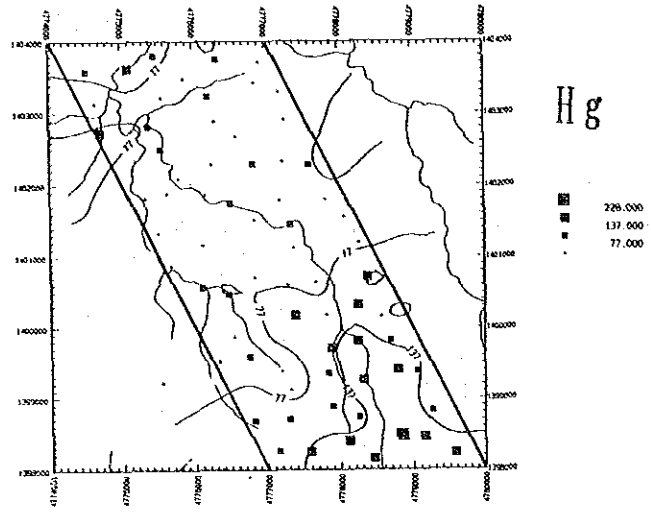

Au
1.750
1.000

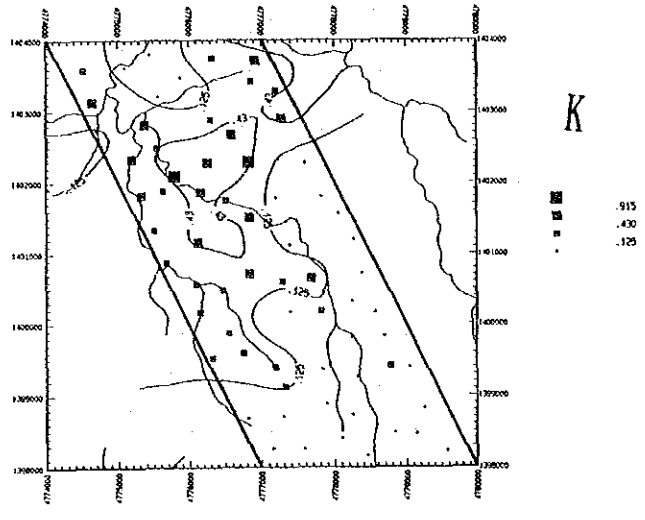

Ba
315.000
205.000
102.500

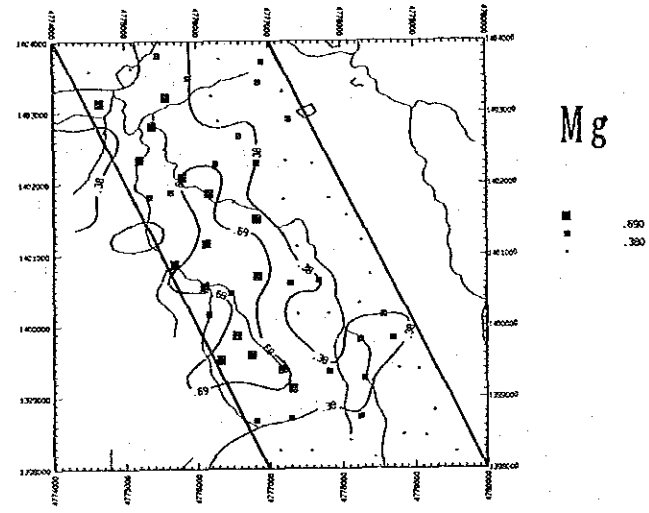

Co
55.500
29.000
17.000

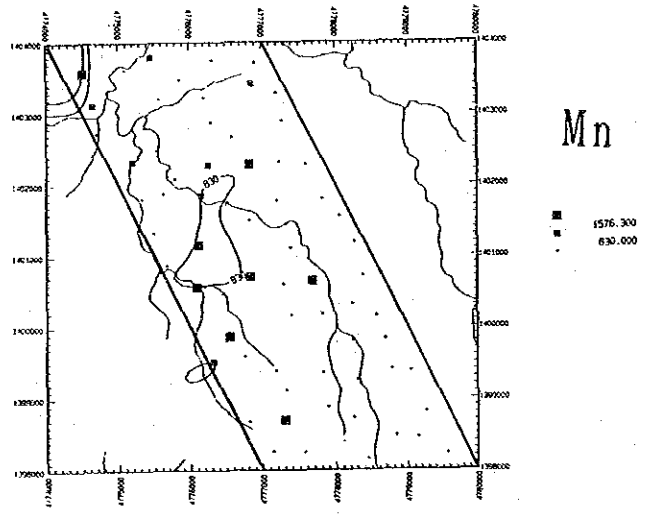

Cr
116.500
71.000
44.500

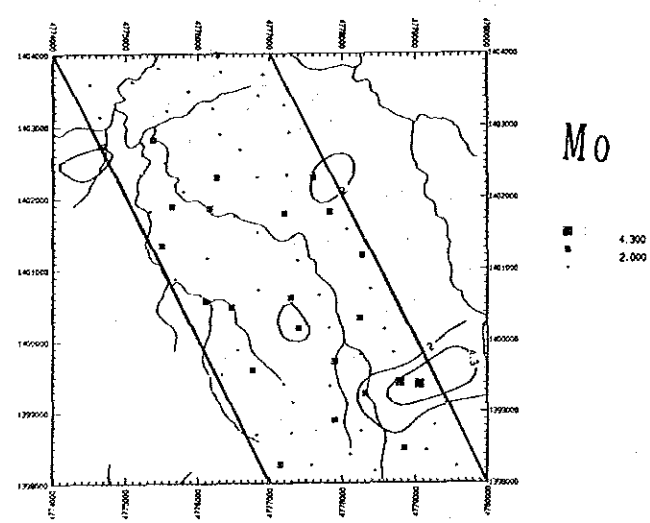

Cu
90.000
59.000
45.000

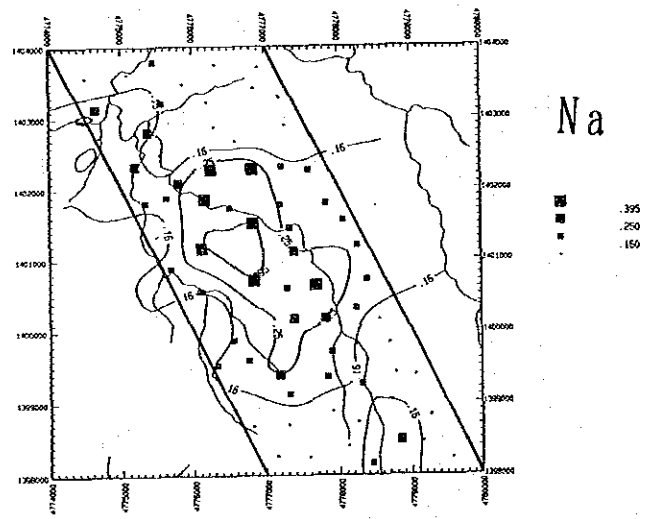

Hg
226.000
137.000
77.000

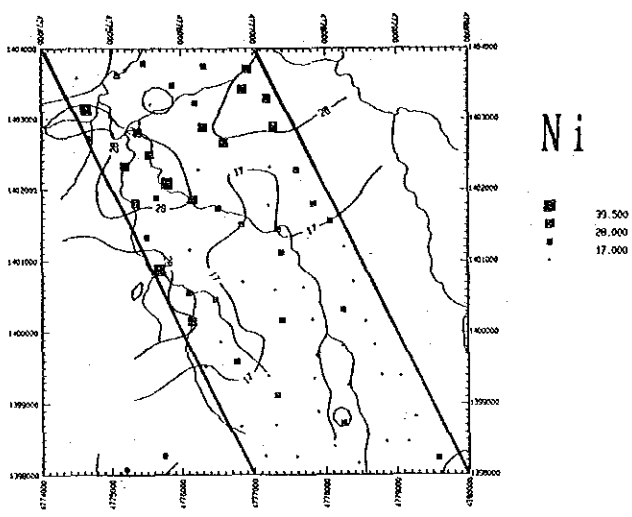

K
.915
.430
.125

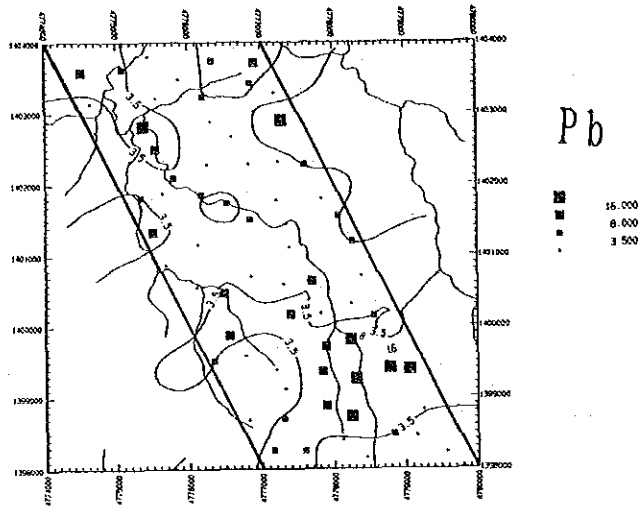

Mg
.690
.380

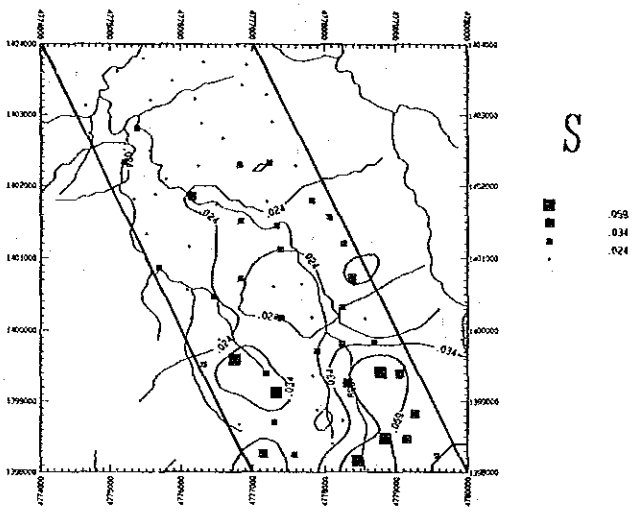

Mn
1576.300
630.000

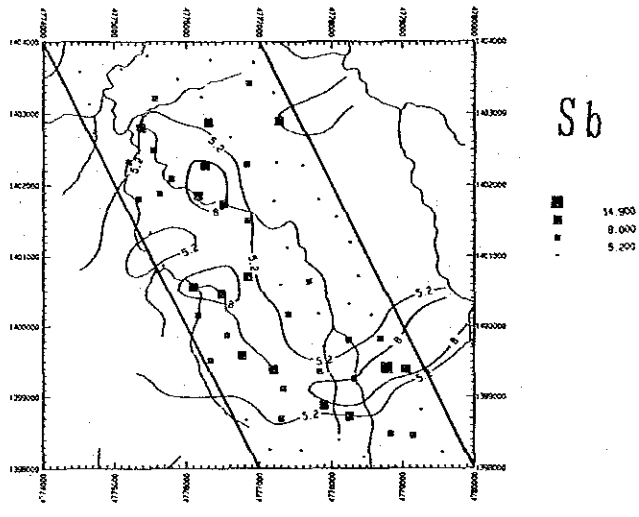

Mo
4.300
2.000

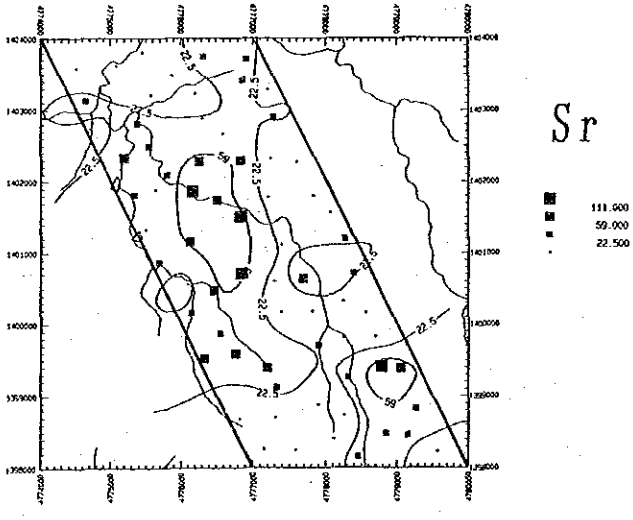

Na
.395
.250
.150

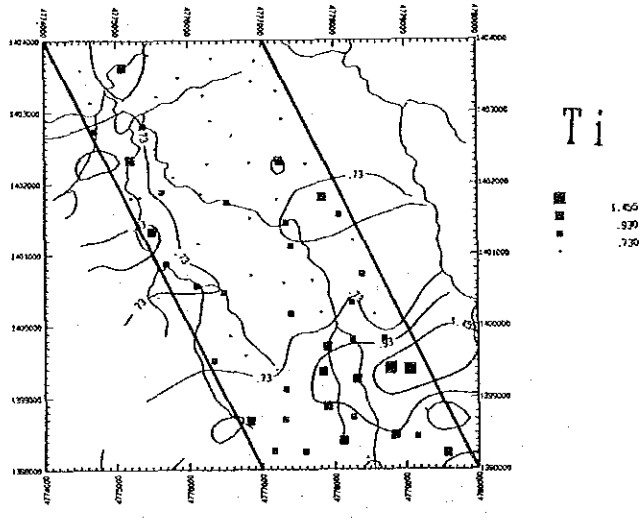

Ni
39.500
28.000
17.000

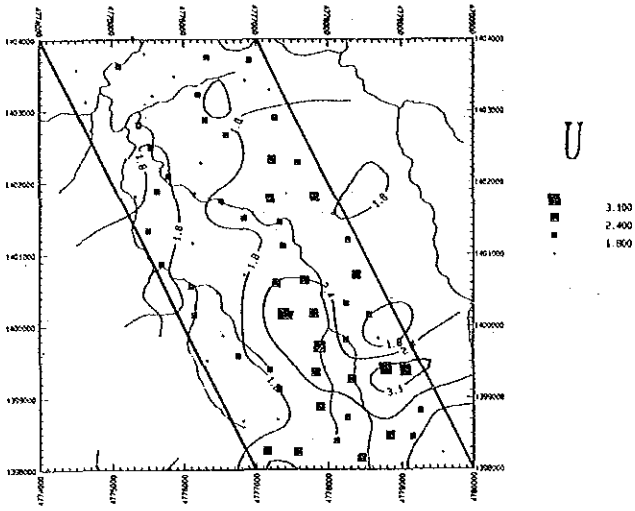

Pb
16.000
6.000
3.500

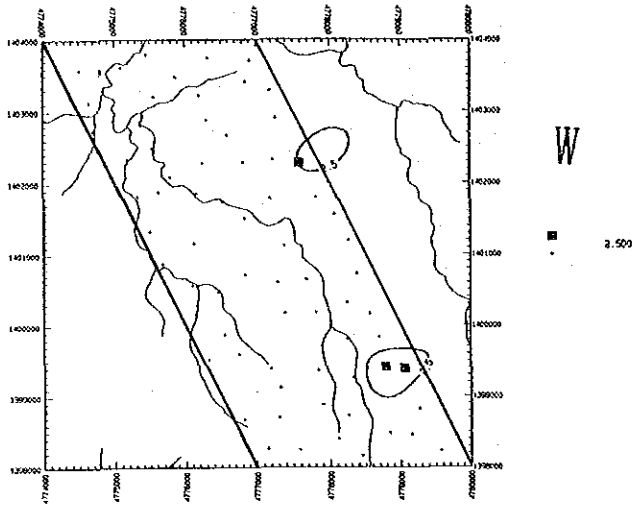

S
.058
.034
.024

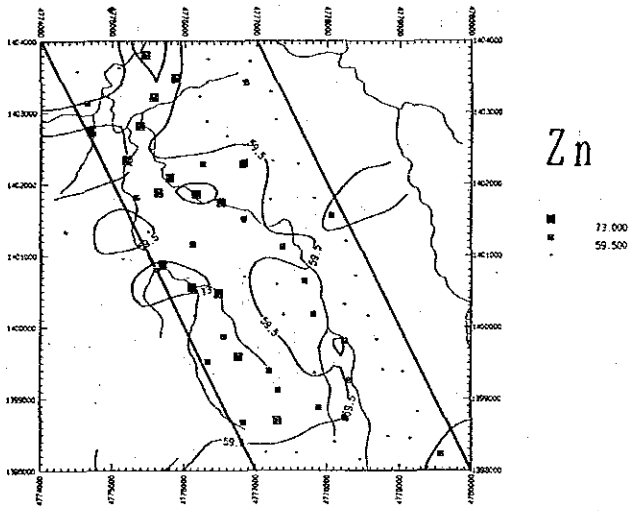

Sb
14.900
8.000
5.200


Sr
111.000
59.000
22.500


Ti
1.455
.939
.739


U
3.100
2.400
1.800


W
2.500


Zn
73.000
59.500

Appendix 36

List of soil geochemical samples
in Area F

Area: Tawau Hill Area (Area F)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
1	PF001	1388.15	4773.43	Tawau North	—	An_1	40	B.	F	C	M	W	Bush
2	PF002	1388.77	4774.25	Tawau North	—	An_1	40	L.G.	F	C	S	W	Bush
3	PF003	1388.66	4775.32	Tawau North	sili. andesite	An_1	50	Y.B.	F	C	M	W	Primary forest
4	PF004	1388.73	4775.70	Tawau North	alt. andesite	An_1	40	Y.B.	R	C	M	W	Primary forest
5	PF005	1388.10	4775.43	Tawau North	alt. andesite	An_1	40	Y.B.	F	C	M	W	Primary forest
6	PF006	1388.08	4776.27	Tawau North	—	An_1	40	Y.B.	F	C	S	W	Primary forest
7	PF007	1388.26	4776.88	Tawau North	alt. andesite	An_1	40	Y.B.	R	C	M	W	Primary forest
8	PF008	1388.85	4777.67	Tawau North	—	An_1	40	Y.B.	F	C	M	W	Primary forest
9	PF009	1388.13	4777.30	Tawau North	argi. andesite	An_1	50	Y.B.	R	C	M	W	Primary forest
10	PF010	1388.11	4777.75	Tawau North	andesite	An_1	40	Y.B.	R	C	M	W	Primary forest
11	PF011	1388.88	4778.16	Tawau North	—	An_1	50	Y.B.	R	C	M	W	Primary forest
12	PF012	1388.26	4778.30	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
13	PF013	1387.42	4772.75	Tawau North	—	Ba_2	40	Y.B.	R	C	M	W	Oil palm plant.
14	PF014	1387.52	4773.67	Tawau North	—	An_1	40	B.	F	C	S	W	Cocao plantation
15	PF015	1387.73	4774.32	Tawau North	—	An_1	40	B.	R	C	S	W	Cocoa plantation
16	PF016	1387.62	4775.23	Tawau North	sili. andesite	An_1	30	Y.B.	F	C	M	W	Primary forest
17	PF017	1387.16	4775.48	Tawau North	andesite	An_1	40	D.B.	M	C	M	W	Primary forest
18	PF018	1387.48	4775.88	Tawau North	—	An_1	40	Y.B.	R	C	S	W	Primary forest
19	PF019	1387.67	4776.30	Tawau North	—	An_1	30	Y.B.	F	C	S	W	Primary forest
20	PF020	1387.62	4776.83	Tawau North	argi. andesite	An_1	40	Y.B.	R	C	M	W	Primary forest
21	PF021	1387.09	4776.12	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
22	PF022	1387.75	4777.20	Tawau North	and. boulder	An_1	40	Y.B.	R	C	M	W	Primary forest
23	PF023	1387.43	4777.75	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
24	PF024	1387.15	4777.22	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
25	PF025	1387.61	4778.15	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
26	PF026	1387.32	4779.00	Tawau North	and. boulder	An_1	40	Y.	R	C	M	W	Primary forest
27	PF027	1386.30	4771.90	Tawau North	—	Ba_2	40	D.B.	R	C	M	W	Cocoa plantation
28	PF028	1386.93	4772.91	Tawau North	—	Ba_2	40	Y.B.	R	C	M	W	Oil palm plant.
29	PF029	1386.32	4772.70	Tawau North	—	Ba_2	40	Y.B.	R	C	M	W	Cocoa plantation
30	PF030	1386.37	4773.60	Tawau North	—	Ba_2	40	D.B.	R	C	F	W	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)

Area: Tawau Hill Area (Area F)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
31	PF031	1386.60	4774.23	Tawau North	—	An_1	40	L.B.	R	C	M	W	Cocoa plantation
32	PF032	1386.23	4774.38	Tawau North	—	An_1	40	D.B.	F	C	M	W	Cocoa plantation
33	PF033	1386.57	4775.09	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
34	PF034	1386.74	4775.81	Tawau North	—	An_1	40	Y.B.	F	C	M	W	Primary forest
35	PF035	1386.49	4775.47	Tawau North	—	An_1	40	Y.B.	F	C	F	D	Primary forest
36	PF036	1386.17	4775.35	Tawau North	—	An_1	40	Y.B.	R	C	F	W	Primary forest
37	PF037	1386.28	4776.14	Tawau North	—	An_1	40	Y.B.	F	C	S	W	Primary forest
38	PF038	1386.68	4776.92	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
39	PF039	1386.15	4776.78	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
40	PF040	1386.70	4777.65	Tawau North	—	An_1	40	L.B.	R	C	M	W	Primary forest
41	PF041	1386.11	4777.40	Tawau North	andesite	An_1	40	Y.B.	R	C	M	W	Primary forest
42	PF042	1386.94	4778.72	Tawau North	and. boulder	An_1	40	Y.	R	C	M	W	Primary forest
43	PF043	1386.66	4778.36	Tawau North	sili. andesite	An_1	40	Y.	R	C	M	W	Primary forest
44	PF044	1386.25	4778.08	Tawau North	sili. andesite	An_1	40	Y.	R	C	M	W	Primary forest
45	PF045	1385.13	4770.38	Tawau North	—	Ba_2	30	D.B.	F	S	M	D	Cocoa plantation
46	PF046	1385.35	4771.56	Tawau North	—	Ba_2	40	D.B.	F	S	M	D	Cocoa plantation
47	PF047	1385.18	4772.65	Tawau North	—	Ba_2	40	B.	R	C	M	W	Cocoa plantation
48	PF048	1385.73	4773.53	Tawau North	—	Ba_2	40	D.B.	R	C	F	W	Cocoa plantation
49	PF049	1385.65	4774.25	Tawau North	—	Ba_2	40	B.	R	C	F	W	Cocoa plantation
50	PF050	1385.77	4774.78	Tawau North	—	An_1	40	L.B.	R	C	M	W	Primary forest
51	PF051	1385.75	4775.45	Tawau North	—	An_1	40	Y.B.	R	C	F	W	Primary forest
52	PF052	1385.13	4775.07	Tawau North	—	An_1	40	B.	R	C	F	W	Cocoa plantation
53	PF053	1385.16	4775.78	Tawau North	—	An_1	40	Y.	R	C	S	W	Primary forest
54	PF054	1385.75	4776.75	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
55	PF055	1385.20	4776.28	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
56	PF056	1385.11	4776.77	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
57	PF057	1385.79	4777.22	Tawau North	andesite	An_1	40	Y.B.	R	C	M	W	Primary forest
58	PF058	1385.47	4777.28	Tawau North	andesite	An_1	40	Y.B.	R	C	M	W	Primary forest
59	PF059	1384.64	4770.00	Tawau North	—	Ba_2	40	D.B.	F	C	F	D	Cocoa plantation
60	PF060	1384.13	4769.52	Tawau North	—	Da_2	40	D.B.	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)

Area: Tawau Hill Area (Area F)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
61	PF061	1384.82	4770.56	Tawau North	—	Ba_2	40	D.B.	F	S	S	D	Cocoa plantation
62	PF062	1384.49	4770.26	Tawau North	—	Ba_2	40	D.B.	R	C	F	D	Cocoa plantation
63	PF063	1384.43	4770.80	Tawau North	—	Ba_2	40	D.B.	F	S	F	D	Cocoa plantation
64	PF064	1384.12	4770.28	Tawau North	—	Ba_2	40	D.B.	R	C	F	W	Rubber plant.
65	PF065	1384.43	4771.63	Tawau North	—	Ba_2	40	D.B.	R	S	M	D	Cocoa plantation
66	PF066	1384.47	4772.40	Tawau North	—	Ba_2	40	D.B.	R	C	F	D	Cocoa plantation
67	PF067	1384.78	4773.44	Tawau North	—	Ba_2	40	B.	R	C	M	W	Cocoa plantation
68	PF068	1384.64	4775.27	Tawau North	—	Ba_2	40	Y.B.	R	C	M	W	Cocoa plantation
69	PF069	1384.74	4775.75	Tawau North	—	An_1	40	B.	R	C	S	W	Bush
70	PF070	1384.11	4775.67	Tawau North	—	An_1	40	Y.B.	R	C	S	D	Bush
71	PF071	1384.33	4776.17	Tawau North	andesite	An_1	40	Y.B.	R	C	M	D	Primary forest
72	PF072	1384.84	4776.54	Tawau North	—	An_1	40	Y.B.	R	C	M	W	Primary forest
73	PF073	1383.68	4768.99	Tawau North	—	Da_2	30	B.	F	C	M	D	Rubber plant.
74	PF074	1383.28	4768.54	Tawau North	—	Da_2	30	Y.B.	F	C	M	D	Oil palm plant.
75	PF075	1383.77	4769.27	Tawau North	—	Da_2	40	Y.B.	F	C	M	D	Rubber plant.
76	PF076	1383.83	4769.92	Tawau North	—	Da_2	30	B.	F	S	M	D	Rubber plant.
77	PF077	1383.28	4769.28	Tawau North	—	Da_2	30	B.	R	S	M	D	Rubber plant.
78	PF078	1383.40	4769.95	Tawau North	—	Da_2	30	D.B.	R	S	M	D	Rubber plant.
79	PF079	1383.87	4770.42	Tawau North	andesite	Ba_2	40	L.B.	R	C	M	D	Rubber plant.
80	PF080	1383.20	4770.29	Tawau North	—	Ba_2	40	Y.B.	F	C	F	D	Oil palm plant.
81	PF081	1383.63	4770.77	Tawau North	—	Ba_2	40	B.	R	C	M	W	Cocoa plantation
82	PF082	1383.12	4770.91	Tawau North	—	Da_2	40	D.B.	R	C	M	W	Cocoa plantation
83	PF083	1383.90	4771.11	Tawau North	—	Ba_2	40	B.	F	C	M	W	Cocoa plantation
84	PF084	1383.45	4771.66	Tawau North	—	Ba_2	40	B.	R	C	F	W	Cocoa plantation
85	PF085	1383.17	4771.21	Tawau North	—	Da_2	40	D.B.	M	C	M	W	Cocoa plantation
86	PF086	1383.50	4772.42	Tawau North	—	Ba_2	40	Y.B.	R	C	M	W	Cocoa plantation
87	PF087	1383.35	4773.58	Tawau North	—	Ba_2	40	D.B.	F	C	M	W	Cocoa plantation
88	PF088	1383.22	4774.55	Tawau North	—	Ba_2	40	D.B.	R	C	M	W	Cocoa plantation
89	PF089	1383.65	4775.13	Tawau North	—	Ba_2	40	D.B.	R	C	M	W	Cocoa plantation
90	PF090	1383.68	4775.51	Tawau North	—	Ba_2	40	D.B.	R	C	F	W	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)

Area: Tawau Hill Area (Area F)

Ser. No.	Sample No.	Coordinates N	Coordinates E	1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. *1	S. *2	T. *3	H. *4	Vegitation
91	PF091	1382.73	4768.20	Tawau North	—	Da_2	40	B.	R	C	M	D	Oil palm plant.
92	PF092	1382.70	4768.87	Tawau North	—	Da_2	40	B.	R	C	M	D	Oil palm plant.
93	PF093	1382.19	4768.30	Tawau North	—	Da_2	30	D.B.	R	S	F	D	Oil palm plant.
94	PF094	1382.20	4768.89	Tawau North	—	Da_2	40	B.	R	S	M	D	Rubber plant.
95	PF095	1382.90	4769.16	Tawau North	—	Da_2	30	D.B.	R	C	M	D	Rubber plant.
96	PF096	1382.88	4769.73	Tawau North	—	Da_2	30	B.	F	S	M	D	Oil palm plant.
97	PF097	1382.40	4769.48	Tawau North	—	Da_2	40	B.	F	S	M	D	Oil palm plant.
98	PF098	1382.74	4770.16	Tawau North	—	Da_2	30	B.	F	S	M	D	Cocoa plantation
99	PF099	1382.78	4770.72	Tawau North	—	Da_2	40	D.B.	R	C	M	W	Cocoa plantation
100	PF100	1382.40	4770.07	Tawau North	—	Da_2	40	B.	R	S	M	D	Oil palm plant.
101	PF101	1382.17	4770.50	Tawau North	—	Da_2	40	B.	R	S	M	D	Oil palm plant.
102	PF102	1382.75	4771.27	Tawau North	—	Da_2	40	B.	R	C	F	W	Cocoa plantation
103	PF103	1382.86	4771.70	Tawau North	—	Da_2	40	D.B.	R	C	M	W	Cocoa plantation
104	PF104	1382.27	4771.21	Tawau North	—	Da_2	40	B.	R	C	F	W	Cocoa plantation
105	PF105	1382.24	4771.89	Tawau North	—	Ba_2	40	D.B.	R	C	M	W	Cocoa plantation
106	PF106	1382.57	4772.62	Tawau North	—	Ba_2	40	D.B.	F	C	F	W	Cocoa plantation
107	PF107	1382.39	4773.59	Tawau North	—	Ba_2	40	D.B.	F	C	M	W	Cocoa plantation
108	PF108	1382.55	4774.31	Tawau North	—	Ba_2	40	D.B.	R	C	M	W	Cocoa plantation
109	PF109	1381.61	4768.40	Tawau North	—	Da_2	30	B.	F	S	M	D	Rubber plant.
110	PF110	1381.73	4768.85	Tawau North	—	Da_2	40	B.	R	S	M	D	Rubber plant.
111	PF111	1381.15	4768.28	Tawau North	—	Da_2	40	B.	R	S	M	D	Oil palm plant.
112	PF112	1381.17	4768.84	Tawau North	—	Da_2	40	D.B.	R	S	F	D	Rubber plant.
113	PF113	1381.93	4769.35	Tawau North	—	Da_2	40	B.	F	S	M	D	Oil palm plant.
114	PF114	1381.83	4769.89	Tawau North	—	Da_2	40	B.	R	S	M	D	Oil palm plant.
115	PF115	1381.12	4769.25	Tawau North	—	Da_2	40	R.B.	R	S	M	D	Oil palm plant.
116	PF116	1381.14	4769.86	Tawau North	—	Da_2	40	B.	R	S	M	D	Oil palm plant.
117	PF117	1381.35	4770.28	Tawau North	—	Da_2	40	B.	R	S	M	D	Oil palm plant.
118	PF118	1381.12	4770.50	Tawau North	—	Da_2	40	D.B.	R	S	F	D	Oil palm plant.
119	PF119	1381.59	4770.82	Tawau North	—	Da_2	30	D.B.	F	C	F	D	Cocoa plantation
120	PF120	1381.73	4771.36	Tawau North	—	Ba_2	40	D.B.	R	S	F	D	Cocoa plantation
121	PF121	1381.38	4771.65	Tawau North	—	Ba_2	40	D.B.	R	C	F	W	Cocoa plantation
122	PF122	1381.48	4772.38	Tawau North	—	Ba_2	40	D.B.	R	C	F	W	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 37

Analytical results of soil
geochemical samples in Area F

List of Geochemical Analysis(1)

Ser. No.	Sample No.	Location (km) X-coord	Location (km) Y-coord	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
1	PF001	4773.430	1388.150	1>	1>	110	22	131	38	130	.04	.25	159	1	.06	57	8	.021	5.5	21	1.73	2.0	2>	76
2	PF002	4774.250	1388.770	3	1>	192	35	29	30	103	.10	.19	2616	1>	.08	10	8	.013	3.9	15	.80	3.0	2>	55
3	PF003	4775.320	1388.660	5	3	65	1>	18	60	115	.12	.10	5>	3	.07	10	5	.033	1.2	24	.53	1.8	2>	51
4	PF004	4775.700	1388.730	15	7	209	2	17	36	110	.34	.17	5>	7	.07	5	11	.039	2.0	121	.34	2.4	2>	30
5	PF005	4775.430	1388.100	131	1>	331	2	12	31	95	.38	.15	4>	4	.16	3	9	.721	3.4	307	.35	1.6	2>	19
6	PF006	4776.270	1388.080	38	2	165	1>	35	46	81	.07	.11	5>	2	.08	22	16	.125	2.7	128	.69	2.6	2>	57
7	PF007	4776.880	1388.260	76	1	174	4	62	20	244	.05	.06	5>	6	.05	15	86	.134	22.3	222	1.83	4.2	11	30
8	PF008	4777.670	1388.850	31	6	160	12	43	45	319	.05	.32	5>	3	.12	22	2>	.030	12.1	18	.66	2.2	2>	55
9	PF009	4777.300	1388.130	103	1>	471	1>	52	23	115	.19	.04	5>	4	.07	6	63	.576	5.7	527	.85	3.6	2>	16
10	PF010	4777.750	1388.110	1>	5	152	36	45	41	86	.07	.74	1202	1	.13	15	2>	.018	5.6	13	.44	3.0	2>	70
11	PF011	4778.160	1388.880	28	2	40	5	39	22	138	.07	.50	5>	3	.07	9	2>	.018	.2>	9	.52	2.2	2>	43
12	PF012	4778.300	1388.260	4	1	58	6	47	49	146	.01	.10	5>	1	.12	23	3	.038	8.6	24	.80	1.8	2>	50
13	PF013	4772.750	1387.420	1>	1>	26	5	200	52	205	.04	.04	5>	5	.12	94	2>	.054	13.8	5	2.03	1.8	2>	117
14	PF014	4773.670	1387.520	1>	1>	174	35	64	42	84	.61	.87	1056	2	.17	24	17	.025	11.5	73	.99	1.8	2>	61
15	PF015	4774.320	1387.730	1>	1>	322	23	19	47	94	1.29	.70	1512	1>	.37	15	2>	.019	5.8	82	.52	2.0	3	58
16	PF016	4775.230	1387.620	12	1>	82	11	32	41	119	.05	.22	5>	3	.11	15	2>	.040	9.7	19	.66	3.0	2>	44
17	PF017	4775.480	1387.160	1>	1>	321	40	66	53	101	.64	.46	1840	3	.27	36	7	.033	5.7	31	.70	2.2	2>	63
18	PF018	4775.880	1387.480	1>	1>	57	15	34	65	169	.02	.14	5>	1	.08	13	2>	.027	6.8	14	1.07	3.4	2>	52
19	PF019	4776.300	1387.670	597	1	333	6	31	74	217	.14	.18	5>	2	.03	10	234	.221	5.2	301	.56	2.2	11	30
20	PF020	4776.830	1387.620	8	1>	27	4	34	63	91	.02	.29	5>	3	.11	11	2>	.097	1.2	24	.68	2.0	2>	49
21	PF021	4776.120	1387.090	87	1>	123	6	31	66	253	.11	.57	5>	3	.10	16	27	.131	6.1	62	.79	2.0	2	71
22	PF022	4777.200	1387.750	51	1>	76	12	39	80	109	.03	.20	5>	1	.13	18	2>	.043	7.3	21	.84	2.0	2>	61
23	PF023	4777.750	1387.430	6	1>	63	9	22	54	111	.03	.16	5>	2	.11	11	2>	.018	2.1	2	.83	3.2	2>	38
24	PF024	4777.220	1387.150	3	1>	78	4	18	53	102	.02	.09	5>	1>	.09	11	4	.025	.6	2	.64	2.6	2>	39
25	PF025	4778.150	1387.610	11	1>	80	10	23	63	124	.01	.12	5>	2	.10	13	4	.029	9.0	2	.81	3.6	2>	49
26	PF026	4779.000	1387.320	18	1>	88	9	135	61	177	.02	.07	5>	2	.10	42	2>	.044	1.1	9	.74	2.4	2>	58
27	PF027	4771.900	1386.300	1>	1>	32	8	241	44	202	.03	.09	5>	2	.07	91	2>	.054	10.1	5	2.08	1.6	2>	99
28	PF028	4772.910	1386.930	1>	1>	24	15	235	50	189	.03	.03	5>	4	.09	93	2>	.047	13.4	3	1.89	1.6	2>	91
29	PF029	4772.700	1386.320	1>	1>	21	7	226	50	164	.02	.03	5>	3	.07	88	2>	.052	7.3	3	1.94	1.8	2>	100
30	PF030	4773.600	1386.370	18	1>	27	9	222	50	215	.04	.03	5>	2	.10	87	2>	.041	11.5	4	1.95	1.8	2>	99
31	PF031	4774.230	1386.600	1>	1>	21	2	218	51	289	.04	.07	5>	1	.06	78	2>	.041	2.3	8	1.94	1.6	2>	82
32	PF032	4774.380	1386.230	1>	1>	18	1>	203	44	257	.02	.02	5>	1	.07	75	2>	.048	6.8	3	1.75	1.6	2>	80
33	PF033	4775.090	1386.570	1>	1>	46	13	25	44	94	.25	.83	5>	1>	.06	12	2>	.014	4.3	17	.71	1.4	2>	59
34	PF034	4775.810	1386.740	370	2	190	1>	14	53	735	.01>	.06	5>	5	.02	1>	24	.056	55.7	221	1.04	2.6	3	16
35	PF035	4775.470	1386.490	49	1>	286	25	29	55	197	.44	.63	1005	5	.21	17	14	.106	6.0	87	.67	2.0	2>	71
36	PF036	4775.350	1386.170	36	1>	104	12	27	46	152	.04	.33	5>	3	.08	17	2>	.052	3.2	33	.72	2.4	2>	62
37	PF037	4776.140	1386.280	81	1>	192	1>	27	19	155	.03	.01	5>	2	.09	4	2>	.081	1.1	201	.65	2.0	2>	20
38	PF038	4776.920	1386.680	1>	1>	77	12	21	70	98	.03	.08	5>	2	.14	14	2>	.022	1.2	2	.70	2.8	2>	38
39	PF039	4776.780	1386.150	1>	1	36	6	27	43	146	.01	.09	5>	2	.08	12	2>	.021	1.7	2	.70	3.4	2>	32
40	PF040	4777.650	1386.700	1>	2	65	9	17	34	97	.03	.14	133	1>	.04	6	2	.013	8.0	3	1.14	4.2	2>	34
41	PF041	4777.400	1386.110	1>	1>	72	8	28	44	179	.02	.13	5>	2	.07	14	2	.018	4.2	3	1.08	4.0	2>	35
42	PF042	4778.720	1386.940	11	1	70	1	96	40	208	.01	.07	5>	3	.07	20	2>	.043	7.7	60	.79	2.0	2>	37
43	PF043	4778.360	1386.660	1>	1>	75	17	83	55	100	.02	.15	5>	3	.07	32	2>	.023	6.1	5	.75	2.8	2>	55
44	PF044	4778.080	1386.250	6	1>	82	15	45	39	111	.04	.21	189	1>	.06	20	2>	.027	6.0	17	.74	1.8	2>	58
45	PF045	4770.380	1385.130	8	1>	22	9	295	49	187	.03	.04	5>	2	.06	114	2>	.057	5.8	4	2.19	2.0	2>	97
46	PF046	4771.560	1385.350	1>	1>	16	9	219	44	174	.01	.02	5>	2	.03	92	2>	.041	6.0	2	1.96	1.4	2>	84
47	PF047	4772.650	1385.180	23	1>	178	50	299	64	265	.08	.07	1484	1>	.11	188	2>	.101	8.2	12	1.74	1.8	2>	128
48	PF048	4773.530	1385.730	4	1>	162	59	261	51	365	.02	.04	3129	1	.06	152	2>	.062	7.1	7	1.45	1.4	2>	121
49	PF049	4774.250	1385.650	1>	1>	301	63	330	64	382	.05	.04	5192	4	.09	189	2>	.105	10.1	7	1.88	1.4	2>	146
50	PF050	4774.780	1385.770	1>	1	42	5	57	24	139	.06	.26	5>	3	.11	16	4	.033	6.8	32	1.21	2.0	2>	38

List of Geochemical Analysis(2)

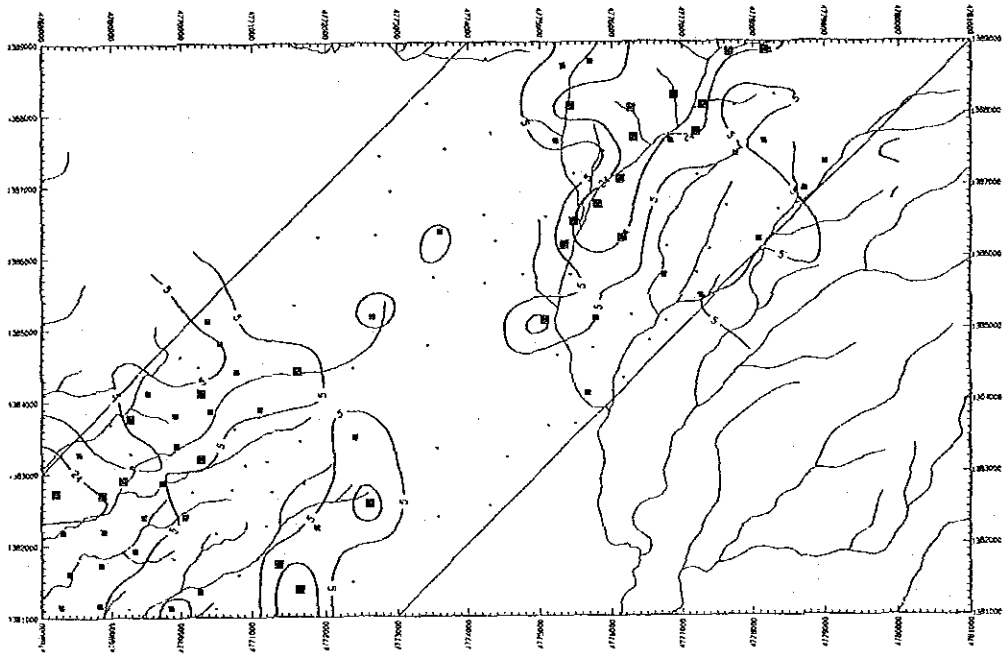
Ser. No.	Sample No.	Location(km) X-coord	Y-coord	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
51	PF051	4775.450	1385.750	1	1>	92	20	49	62	131	.04	.18	1100	2	.09	20	4	.038	2.1	12	.94	2.4	2>	63
52	PF052	4775.070	1385.130	61	2	57	7	94	39	221	.02	.19	5>	3	.11	37	2>	.060	7.6	42	1.33	3.0	2>	56
53	PF053	4775.780	1385.160	8	1>	168	24	24	49	72	.09	.41	5>	2	.21	14	2>	.028	3.3	25	.75	1.4	2>	71
54	PF054	4776.750	1385.750	6	1>	85	9	32	60	119	.01>	.19	5>	2	.15	16	2>	.025	.2>	8	.56	3.0	2>	42
55	PF055	4776.280	1385.200	1>	1	49	6	35	49	134	.02	.23	5>	2	.13	16	7	.028	4.2	9	.91	3.0	2>	45
56	PF056	4776.770	1385.110	1>	1>	173	11	20	44	75	.61	.32	5>	2	.25	10	2>	.012	.2>	19	.59	2.8	2>	46
57	PF057	4777.220	1385.790	1>	1>	135	13	27	64	93	.26	.28	5>	1	.19	14	7	.014	5.6	9	.62	2.6	2>	44
58	PF058	4777.280	1385.470	7	1>	54	4	43	59	91	.08	.24	5>	1	.12	18	2>	.017	.8	5	.69	3.0	2>	38
59	PF059	4770.000	1384.640	1>	1>	111	57	243	46	153	.03	.05	1440	1>	.10	136	2>	.044	6.4	9	2.09	1.2	2>	128
60	PF060	4769.520	1384.130	21	1>	133	47	190	37	77	.07	.22	775	2	.10	90	2>	.034	11.3	28	1.41	1.6	2>	110
61	PF061	4770.560	1384.820	9	1>	63	11	245	49	99	.14	.19	5>	2	.28	102	2>	.028	15.2	27	2.07	1.8	2>	98
62	PF062	4770.260	1384.490	1>	1>	38	14	271	42	161	.06	.19	277	1>	.18	88	2>	.051	10.1	18	1.86	1.6	2>	97
63	PF063	4770.800	1384.430	12	1>	32	7	279	50	153	.05	.08	5>	4	.13	107	2>	.051	12.7	4	2.19	1.4	2>	116
64	PF064	4770.280	1384.120	93	1>	68	20	286	50	163	.10	.17	1488	3	.25	100	2>	.033	9.7	28	1.97	1.8	2>	120
65	PF065	4771.630	1384.430	48	1	120	37	274	59	115	.10	.22	737	1>	.23	144	2>	.046	14.8	37	1.86	1.6	2>	131
66	PF066	4772.400	1384.470	1>	1>	251	68	272	63	317	.04	.06	4632	1	.11	169	2>	.063	9.0	14	1.63	1.6	2>	140
67	PF067	4773.440	1384.780	1>	1>	238	73	312	69	301	.08	.05	3601	3	.15	201	2>	.086	2.9	7	1.73	1.4	2>	142
68	PF068	4775.270	1384.640	1>	1>	373	49	229	55	305	.12	.07	2093	2	.11	155	2>	.035	10.7	58	1.45	1.6	2>	160
69	PF069	4775.750	1384.740	3	1>	38	9	57	58	103	.02	.05	5>	3	.11	22	2>	.041	.2>	15	.80	2.0	3	52
70	PF070	4775.670	1384.110	5	1>	213	18	279	32	190	.03	.07	5>	3	.11	159	2>	.044	8.9	6	1.65	2.0	2>	94
71	PF071	4776.170	1384.330	1>	1>	135	18	35	47	77	.25	.53	550	1>	.16	14	2>	.019	6.7	15	1.11	1.8	2>	65
72	PF072	4776.540	1384.840	1>	1>	224	7	26	50	140	.03	.11	5>	4	.14	12	2>	.030	8.2	3	.85	3.2	2>	40
73	PF073	4768.990	1383.680	1>	1>	242	50	224	51	102	.06	.22	2035	2	.11	115	2>	.034	14.1	33	1.61	1.8	2>	110
74	PF074	4768.540	1383.280	19	1>	32	5	46	25	67	.03	.07	5>	0	30.12	14	2>	.020	4.6	16	.84	3.2	2>	40
75	PF075	4769.270	1383.770	51	1>	55	5	75	33	63	.06	.13	5>	2	.10	14	6	.023	11.1	40	.81	2.0	2>	36
76	PF076	4769.920	1383.830	19	1>	74	4	58	28	59	.08	.13	5>	2	.09	14	8	.024	2.3	35	.98	2.6	2>	41
77	PF077	4769.280	1383.280	1>	1>	24	1>	73	25	96	.03	.05	5>	3	.14	14	2>	.028	2.3	12	1.17	3.0	2>	37
78	PF078	4769.950	1383.400	8	1>	44	4	141	25	81	.02	.08	5>	1>	.04	41	2>	.017	5.0	21	1.18	2.4	2>	43
79	PF079	4770.420	1383.870	21	1>	134	68	396	43	151	.04	.09	463	4	.11	167	2>	.032	13.3	11	2.77	1.4	2>	136
80	PF080	4770.290	1383.200	25	1>	21	7	91	24	90	.02	.04	5>	4	.09	18	2>	.024	8.7	9	1.25	3.0	3	42
81	PF081	4770.770	1383.630	2	1>	42	18	327	47	120	.03	.04	5>	2	.09	118	2>	.041	14.0	5	2.01	1.6	2>	105
82	PF082	4770.910	1383.120	1>	1>	39	11	338	43	114	.03	.07	52	3	.07	112	2>	.050	12.2	6	1.96	1.8	2>	122
83	PF083	4771.110	1383.900	9	1>	44	12	352	47	150	.03	.04	5>	2	.07	121	2>	.046	2.6	8	1.97	1.4	2>	123
84	PF084	4771.660	1383.450	1>	1>	349	67	323	75	197	.05	.08	1881	1	.10	203	2>	.045	4.2	17	1.94	1.0	2>	144
85	PF085	4771.210	1383.170	1>	1>	200	60	334	53	105	.06	.27	1492	3	.13	179	2>	.025	12.9	76	1.74	1.0	2>	127
86	PF086	4772.420	1383.500	17	1>	235	67	322	79	229	.10	.07	3233	2	.09	197	2>	.073	11.0	16	1.92	1.2	2>	153
87	PF087	4773.580	1383.350	1>	1>	204	58	274	51	138	.11	.05	1394	1	.11	188	2>	.050	.2>	13	1.78	1.8	2>	129
88	PF088	4774.550	1383.220	1>	1>	353	72	274	67	354	.06	.07	5112	1>	.08	171	2>	.071	4.7	28	1.72	1.8	2>	172
89	PF089	4775.130	1383.650	1>	1>	641	80	318	75	272	.08	.09	4536	3	.12	207	2>	.053	5.5	30	1.87	1.6	2>	202
90	PF090	4775.510	1383.680	2	1>	1065	6	260	66	406	.03	.06	6315	1>	.05	164	2>	.056	7.9	64	1.54	1.4	2>	180
91	PF091	4768.200	1382.730	53	1>	23	7	62	21	143	.01>	.07	5>	2	.07	14	13	.026	2.2	13	1.25	3.6	2>	41
92	PF092	4768.870	1382.700	24	1>	20	10	77	28	73	.01	.04	5>	3	.08	21	2>	.035	4.3	9	1.13	3.4	3	51
93	PF093	4768.300	1382.190	16	1>	210	59	130	35	235	.05	.05	8171	3	.06	53	15	.044	8.8	16	1.32	3.0	2>	65
94	PF094	4768.890	1382.200	23	1>	26	2	64	21	117	.02	.03	5>	4	.07	12	2>	.021	3.5	13	1.05	3.2	2>	37
95	PF095	4769.160	1382.900	26	1>	35	3	64	31	93	.02	.07	5>	4	.06	11	4	.023	5.4	27	1.14	3.2	2>	33
96	PF096	4769.730	1382.880	6	1>	21	3	63	25	94	.01	.03	5>	3	.10	15	2>	.025	6.9	10	.97	3.2	2>	42
97	PF097	4769.480	1382.400	21	1>	21	1>	62	24	84	.01	.04	5>	3	.08	13	2>	.034	2.6	11	1.11	3.8	2>	38
98	PF098	4770.160	1382.740	1>	1>	22	3	70	23	132	.06	.05	5>	5	.11	16	2>	.036	1.8	10	1.02	3.2	2>	45
99	PF099	4770.720	1382.780	1>	1>	71	63	336	46	168	.06	.12	1793	3	.14	128	2>	.048	10.1	13	2.27	1.6	2>	134
100	PF100	4770.070	1382.400	7	1>	43	7	57	30	72	.04	.10	5>	4	.08	13	2>	.023	7.4	25	.93	2.4	2>	38

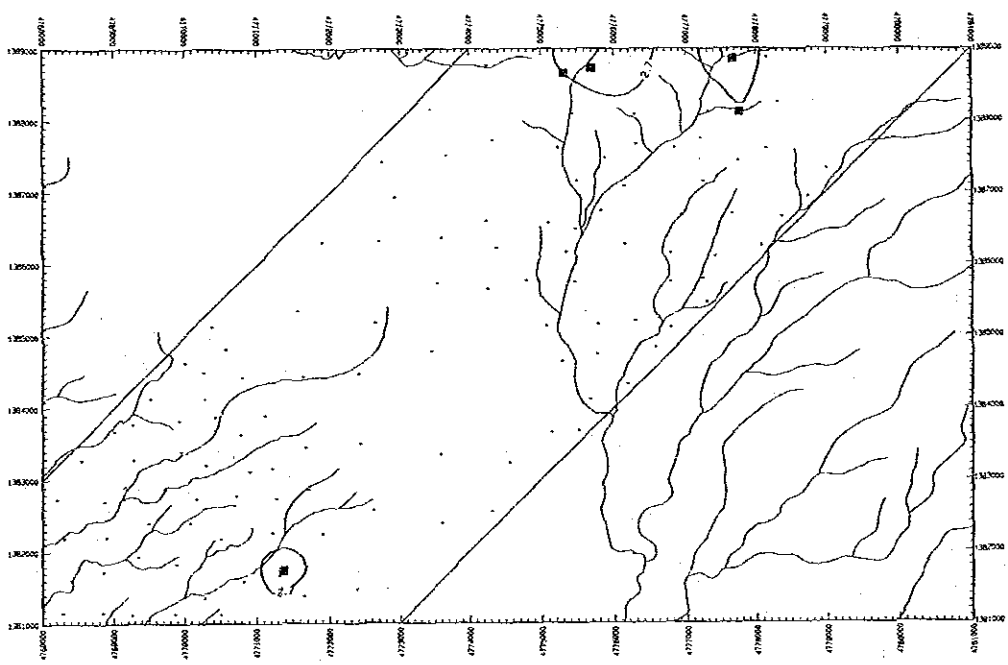
List of Geochemical Analysis(3)

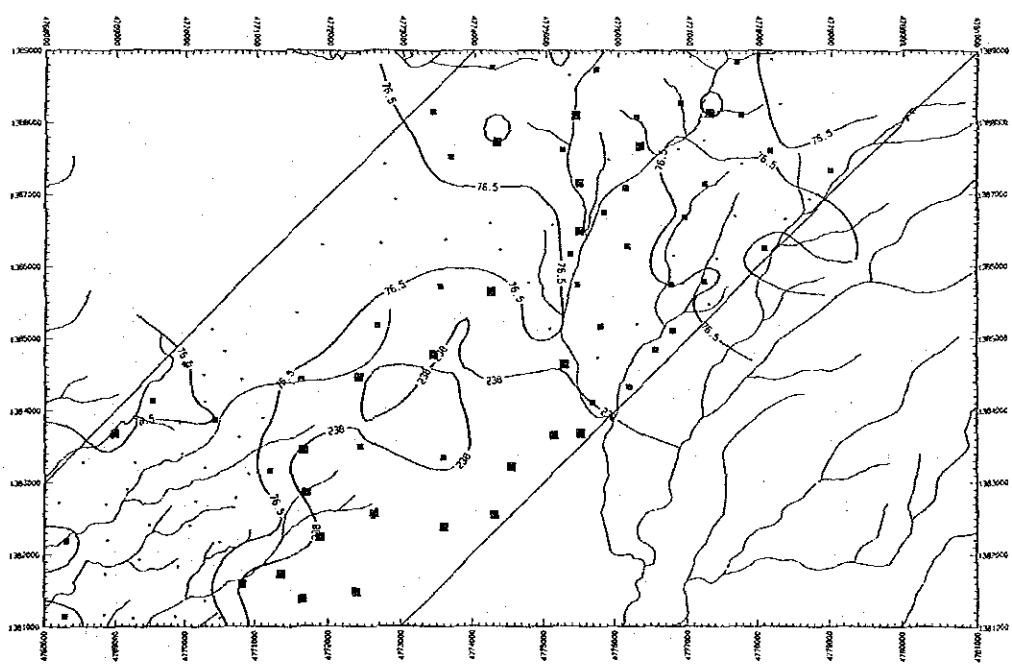
Ser. No.	Sample No.	Location(km) X-coord	Location(km) Y-coord	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
101	PF101	4770.500	1382.170	4	1>	39	2	53	27	104	.02	.04	5>	5	.11	12	2>	.028	7.7	13	.99	3.2	2>	42
102	PF102	4771.270	1382.750	1>	1>	40	17	284	50	169	.04	.02	23	6	.10	99	2>	.047	13.4	4	2.04	1.8	2>	146
103	PF103	4771.700	1382.860	1>	1>	508	80	402	72	144	.07	.15	1786	3	.16	239	2>	.035	9.9	37	1.84	1.2	2>	183
104	PF104	4771.210	1382.270	1>	1>	51	15	264	56	167	.04	.03	5>	5	.16	107	2>	.054	7.5	6	2.03	1.6	2>	116
105	PF105	4771.890	1382.240	15	1>	275	70	341	69	156	.05	.09	1694	2	.16	206	2>	.081	13.2	10	1.93	1.4	2>	169
106	PF106	4772.620	1382.570	77	1>	415	74	327	70	168	.21	.18	3282	2	.25	192	2>	.035	9.6	47	1.81	1.4	2>	178
107	PF107	4773.590	1382.390	1>	1>	429	60	333	76	166	.10	.16	1322	3	.11	226	2>	.034	10.0	38	1.79	1.6	2>	156
108	PF108	4774.310	1382.550	1>	1>	342	74	359	63	188	.09	.11	1513	4	.11	188	2>	.055	6.4	9	2.23	1.2	2>	190
109	PF109	4768.400	1381.610	10	1>	34	10	73	21	129	.02	.05	5>	3	.09	19	2>	.029	5.7	12	1.14	3.6	2>	40
110	PF110	4768.850	1381.730	22	1>	14	3	44	19	136	.01	.06	5>	3	.08	8	2>	.036	1.5	13	.96	3.2	2>	39
111	PF111	4768.280	1381.150	15	1>	131	44	74	28	34	.20	.37	455	1>	.12	51	6	.044	5.0	45	.67	2.0	2>	68
112	PF112	4768.840	1381.170	15	1>	46	7	42	31	119	.03	.12	5>	2	.07	16	2>	.024	3.1	22	1.02	2.6	2>	49
113	PF113	4769.350	1381.930	22	1>	56	9	82	30	80	.06	.19	5>	3	.06	25	2>	.032	10.0	31	1.02	2.4	2>	51
114	PF114	4769.890	1381.830	1>	1>	25	4	41	24	73	.01>	.04	5>	2	.12	14	2>	.034	4.0	11	.78	3.2	2>	39
115	PF115	4769.250	1381.120	1>	1>	38	1>	39	15	73	.01	.06	5>	2	.10	7	2>	.024	1.8	10	1.11	3.2	2>	37
116	PF116	4769.860	1381.140	13	1>	31	3	72	22	81	.02	.06	5>	3	.12	21	2>	.023	4.6	12	1.10	3.0	2>	41
117	PF117	4770.280	1381.350	12	1>	45	3	56	29	155	.02	.05	5>	2	.16	16	2>	.033	.2>	14	.97	2.8	2>	50
118	PF118	4770.500	1381.120	1>	1>	60	49	45	17	92	.01>	.08	4062	2	.07	11	9	.023	2.8	11	.95	4.0	2>	48
119	PF119	4770.820	1381.590	1>	1>	472	62	275	66	163	.10	.12	2735	2	.13	214	2>	.030	13.6	23	1.84	1.4	2>	192
120	PF120	4771.360	1381.730	66	185	501	58	251	100	370	.35	.62	4470	3	.71	140	107	.059	10.5	131	1.48	1.6	2>	1423
121	PF121	4771.650	1381.380	70	1>	877	87	345	82	183	.12	.16	4118	2	.14	208	2>	.042	15.6	58	2.11	1.2	2>	397
122	PF122	4772.380	1381.480	1>	1>	323	92	345	77	150	.10	.09	3893	2	.13	200	13	.077	15.6	9	2.18	1.2	2>	236

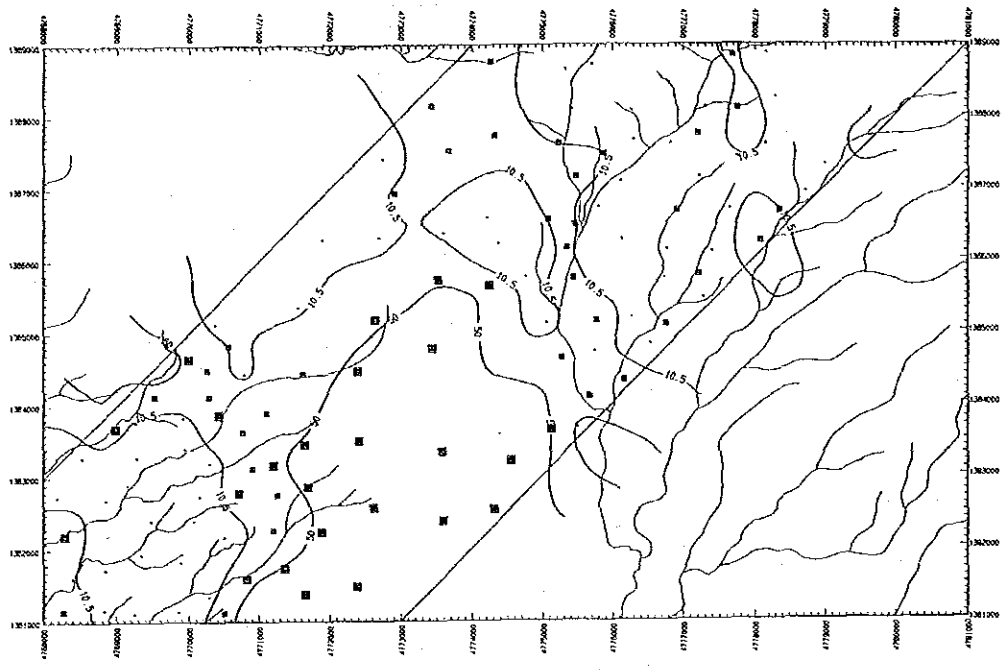
Appendix 38

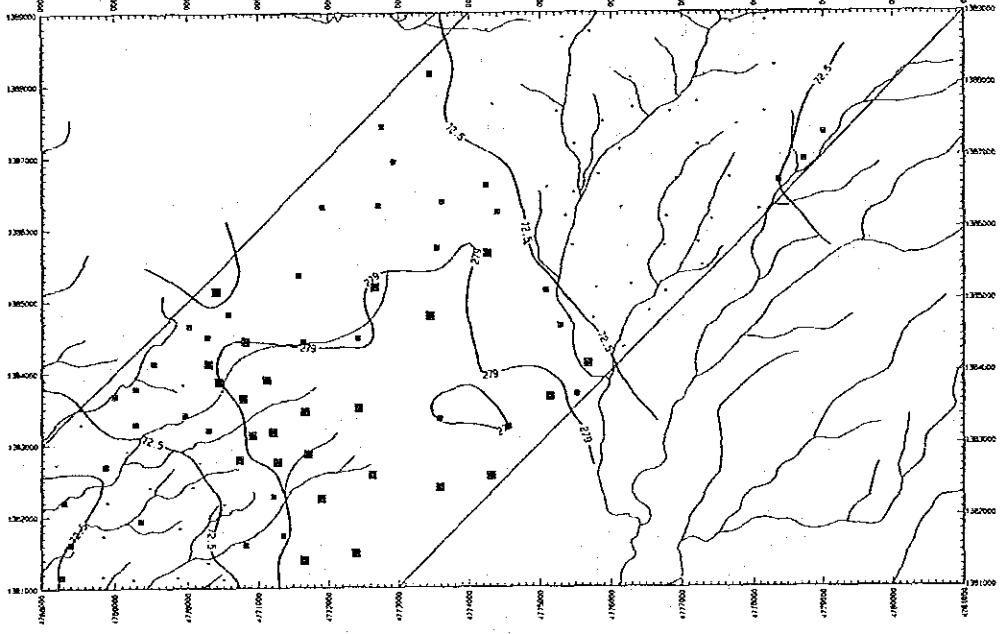
Distribution map of elements in Area F

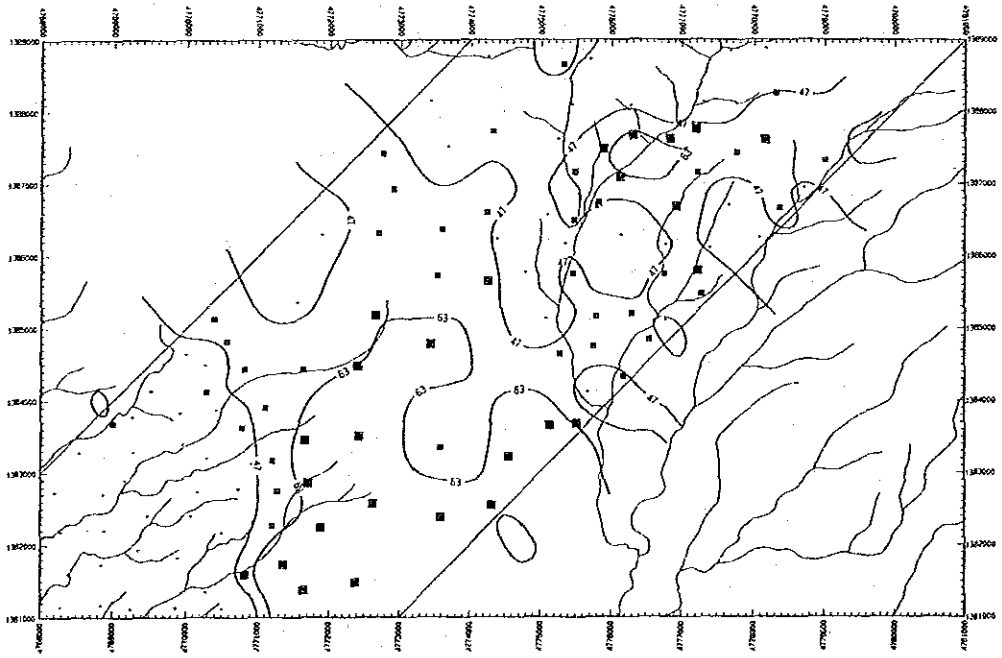

As
24.000
5.000

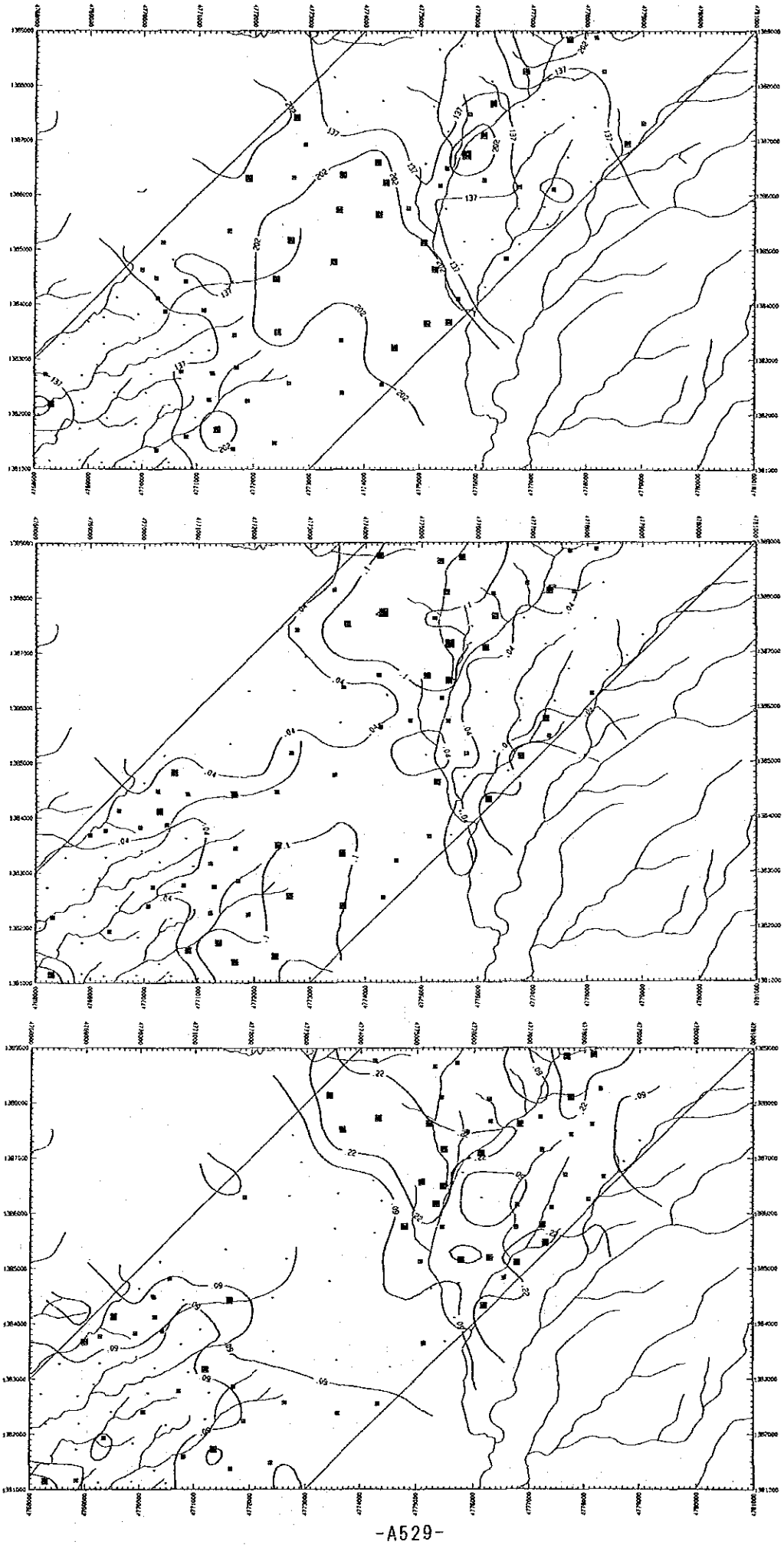

Au
2.700

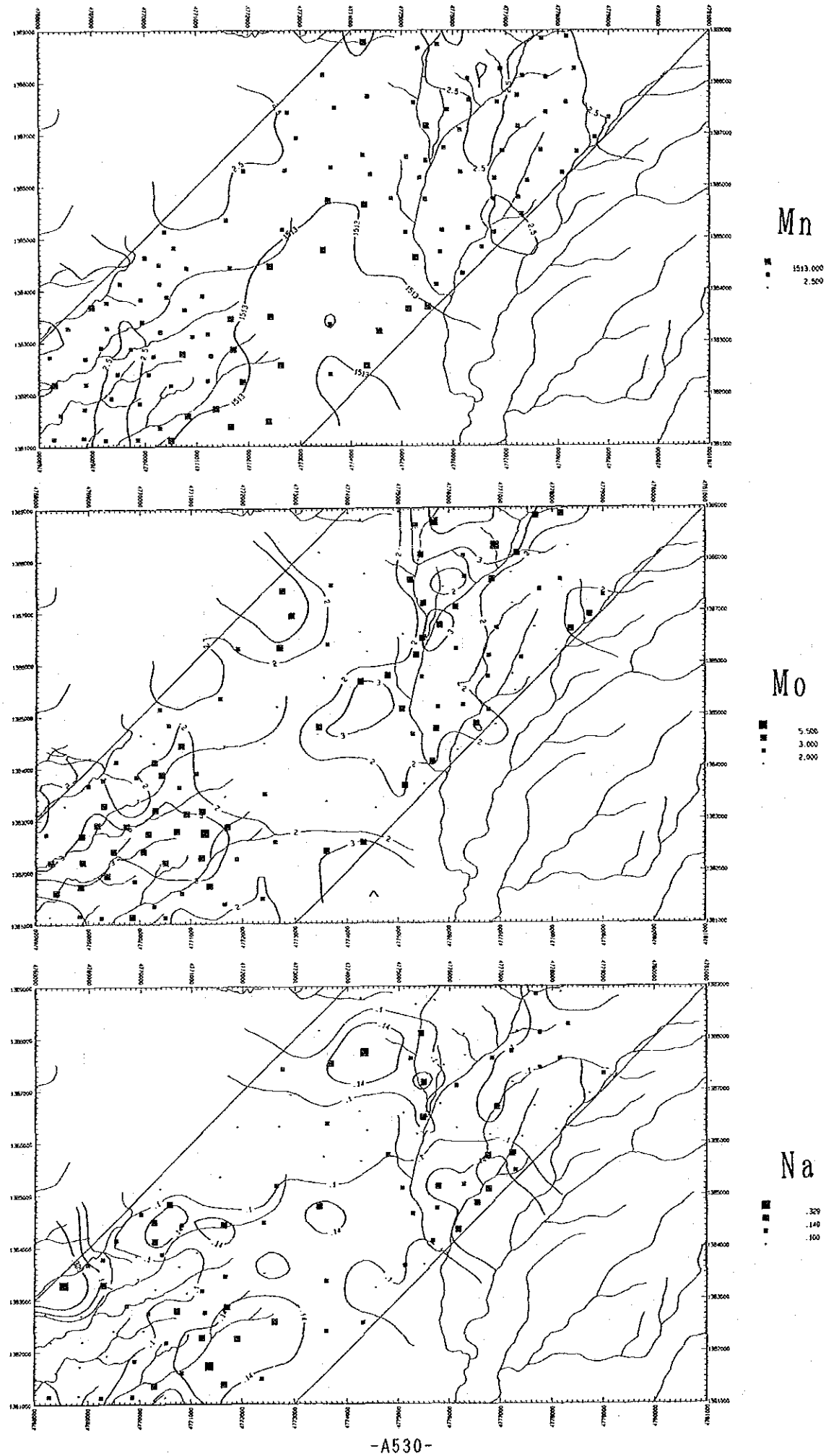

Ba
238.000
76.500

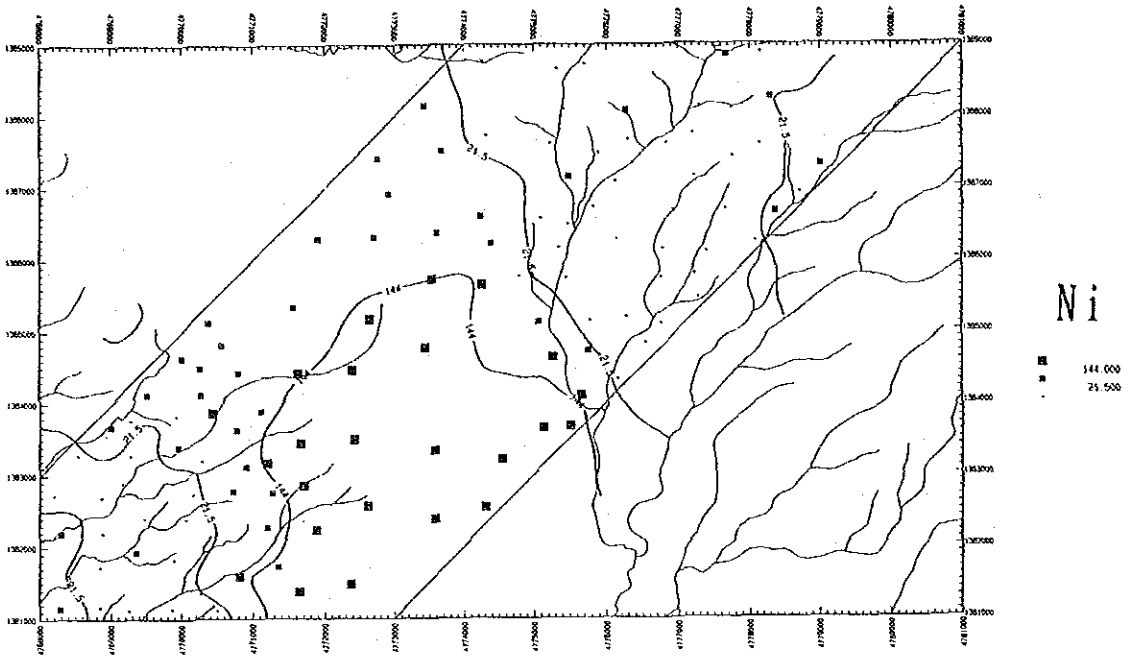

Co
50.000
10.500

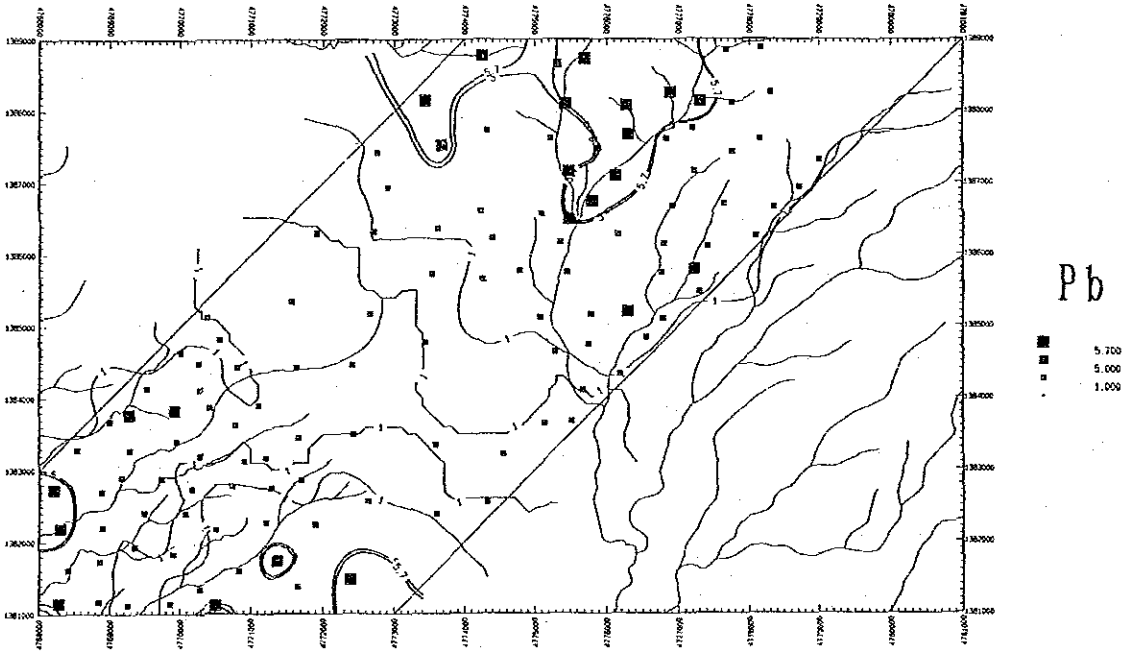

Cr
279.000
72.500

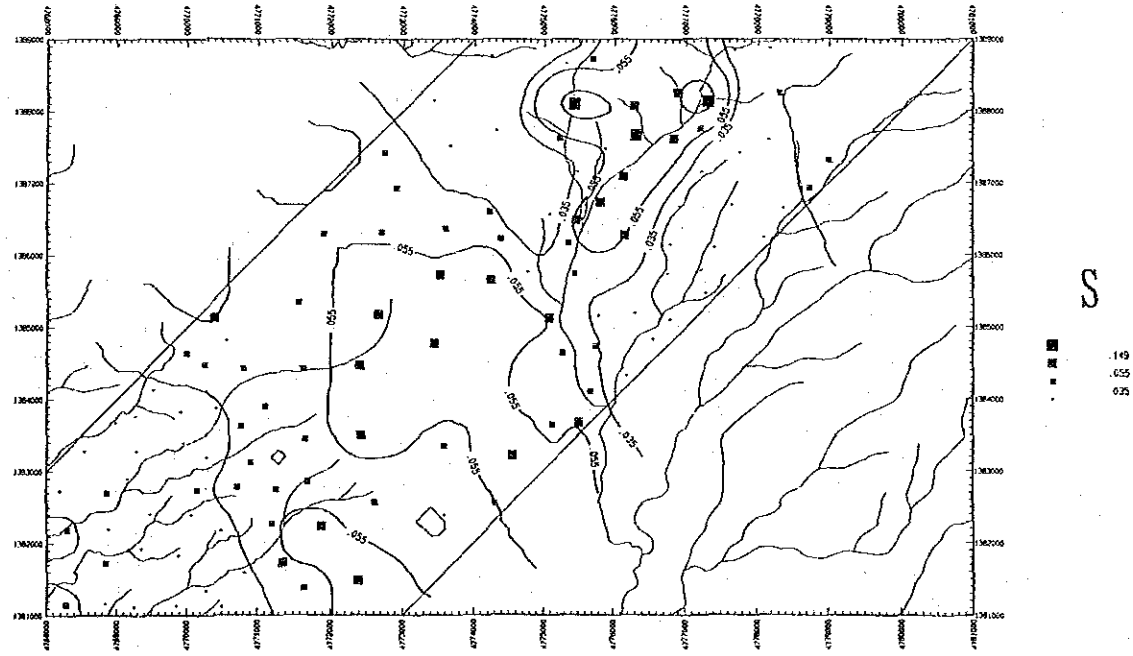

Cu
63.000
47.000

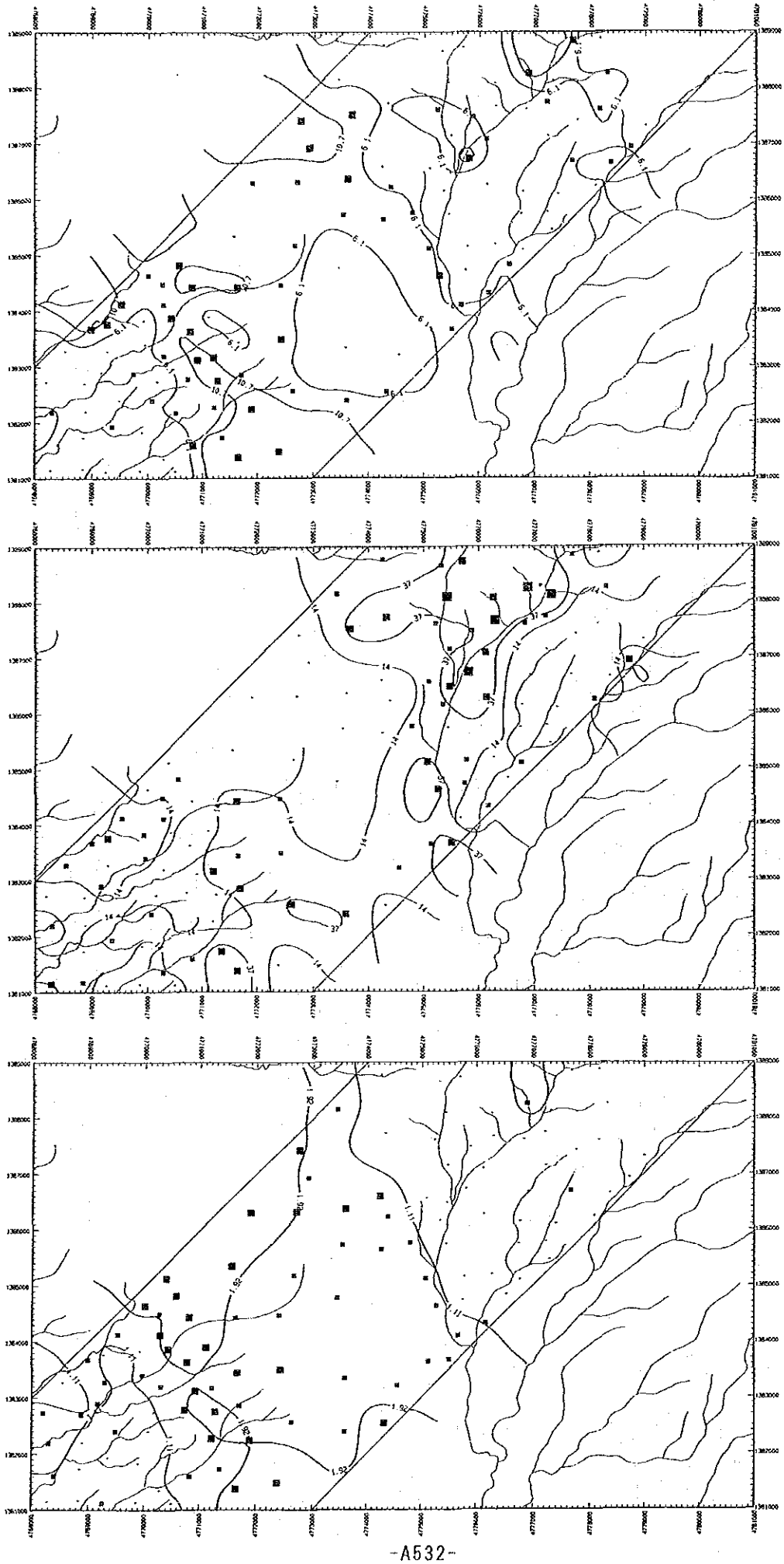

Hg
455.700
202.000
137.000
K
.640
.100
.040
Mg
.220
.090


Mn
1513.000
2.500
Mo
5.500
3.000
2.000
Na
.329
.140
.100


Ni
144.000
25.500


Pb
5.700
5.000
1.000


S
.149
.055
.035


Sb
10.700
6.100
Sr
217.900
37.000
14.000
Ti
1.920
1.110