

第Ⅲ部 結論及び提言

第1章 結 論

(1) テルピド西方地区

本地区の土壤は、ラテライト土壤、超塩基性岩の風化した岩片を含むラテライト土壤及びサポロライトの層序を示し、下位に向かってNiの品位は増加する。Ni 0.8%以上のやや高い濃度を示す試料は超塩基性岩の風化した岩片を含むラテライト土壤及びサポロライトで、中央部の丘陵地域に分布するが、これらの地点では土壤の発達状況は悪く、厚さは2mから3mである。一方、平坦地では、土壤の発達は5m以上に達するが、Niの濃度は数100から数1,000ppmで低い。従って、本地区には、Ni品位の高いラテライト土壤も存在するが、その発達する深度は浅く、その分布面積も狭いので、開発するのに十分な鉱量としてはもの足りないと考えられる。

(2) ピナンドアン地区

本調査において確認された鉱化・変質帯は、ハンレイ岩の貫入岩体の周辺部に見られるカンラン岩の弱い変質帯で、鉱物資源基本図調査のAu、Cu、Ni異常帯を反映するような鉱化帯は確認できなかった。

本地区で捕捉されたIP異常は、鉱物資源基本図調査の地化学異常帯(Cu)の分布範囲とほぼ調和的であった。一方、地質調査で確認されたハンレイ岩に伴う弱い鉱化・変質帯とははっきりした関係は見いだされなかった。地区南西部、ピナンドアンカチール川下流の、過去の調査で黄鉄鉱を伴う硫化物脈が確認されている地点(B測線南部)ではやや強いIP異常を示しており、地下に存在する硫化物の量は比較的多いと推定される。また、今回の調査では、さらに強いIP異常が地区南西部から地区北東部(B測線北部、D測線中央部、E測線北部、F測線南部、及びG測線中央部)に捕捉された。これらIP異常の分布域の地表には顕著な鉱化・変質帯は認められなかったことから、IP異常源は潜頭性の貫入岩に伴う硫化物の鉱染あるいは鉱脈によるものと推定される。

地化学異常帯の存在、及び地区中央北部でこれと重複する顕著なIP異常の存在する点からこの地区の詳しい調査が望まれる。

(3) インバック川地区

1) インバック川地区北部(地質調査、物理探査)

鮮新世前期の閃緑斑岩が多く貫入する地区中央南部では堆積岩類が珪化し、黄鉄鉱(硫砒鉄鉱)に鉱染する珪化・黄鉄鉱鉱染帯が約2km×2kmの広がり分布する。この珪化・黄鉄鉱鉱染帯に10から20cm前後の硫化物(黄鉄鉱、硫砒鉄鉱、閃亜鉛鉱)により満たされた石英脈及びレンズが分布し、高品位のAu、Ag(Au 8 - 30 g/t max. 72 g/t, Ag 30 - 100 g/t max. 196 g/t)を含有する。

本地区の鉱化作用はAu-Agに特徴付けられ、閃緑斑岩に関係した鉱化作用であり地質状況、鉱石鉱物の組み合わせ、変質鉱物の組み合わせ等から浅熱水性ではなく、しかし生成温度はそんなに高くはないと考えられ、斑岩型銅鉱床の縁辺部ないしは最上部の可能性が考えられる。閃緑斑岩の貫入時期は鮮新世前期で、金に富む斑岩型銅鉱床であるマムート鉱山の鉱化作用をもたらした火成岩の貫入時期と一致する。

本地区で捕捉されたIP異常は、地区南部に多く分布する貫入岩体に伴う珪化・黄鉄鉱鉱染帯の分布域と調和的であり、更に南へ広がる傾向が認められる。特に、D測線南端部からF測線中央南部では強異常を示しており、珪化・黄鉄鉱鉱染帯が分布する地域とほぼ一致している。また、本地区で実施された岩石地化学探査の結果、Au異常は地区中南部へ広範囲に分布し、20mV/V以上の中～強分極率異常分布と調和的である。F測線中央南部ではCu異常とS異常が重複しており、30mV/V以上の強分極率異常分布と一致している。従って、F測線中南部を中心とする地域には硫化物が多く存在すると推定される。

珪化・黄鉄鉱鉱染帯域を中心に地下に硫化物の存在する可能性が高く、今後の詳細な探査が待たれる。

2) インバック川地区南部(グノングクリ地区)(土壌地化学探査)

閃緑斑岩は地区中央部の両側の山腹に多数の貫入岩体としてみられ、今回の調査で初めて確認された。年代測定値は、インバック川地区北部と同様の値で、鮮新世前期である。更に、これらの貫入岩体周辺部の堆積岩中には珪化・黄鉄鉱鉱染帯が見られ、最も顕著なものは、地区北西部及び中央部で、中央部では黄銅鉱に鉱染する閃緑斑岩も見られ、黄銅鉱中に細粒の自然金が確認された。すなわち、インバック川地区北部の鉱化作用が山脈沿いに南へ延長することを示唆している。地化学探査の結果、本地区では、鉱物資源基本図調査のT地区の土壌地化学探査の結果よりやや高いAs、Au、Cu、Hgの値を示す。地区北西部及び中央部の珪化・黄鉄鉱鉱染帯の分布域は、Au、Cu、Hg、S等の異常帯及び高濃度帯に覆われる。因子分析の結果、第2因子(Au、Cu、Sb、W)及び第6因子(As、Au、Hg、S)が本地区の鉱化作用を反映していると考えられ、これらの高い因子得点を持つ試料が分布する地区北西部及び中央部の珪化・黄鉄鉱鉱染帯を含む地域が鉱床賦存の可能性が高い地域と考えられる。従って、この地域及び周辺地域を含めて、今後、詳細な調査が行われることが望まれる。

第2章 第2年次への提言

(1) テルピド西方地区

Ni品位の高いラテライト土壌及びサポロライトが存在するが、その発達する深度は浅く、分布面積も狭いため十分な鉱量が期待できないと思われる。今後、さらに探査を行うべき積極的理由は見つからない。

(2) ピナンドアン地区

ピナンドアンバサル川上流のIPの異常帯を中心に、地質精査(3km×3km)および岩石地化学探査を実施し、本地区に存在すると考えられる潜頭性の鉱化作用の兆候を確認し、IP異常の詳細な分布を把握するためIP法による物理探査を実施する(Fig. III-2-1)。

(3) インバック川地区北部

地区中央南部の珪化・黄鉄鉱染帯を中心に以下の精査を行い、地表下に存在すると考えられるAu、Agの鉱化作用を確認する(Fig. III-2-2)。

- 1) 精度の良い地形図がないため、珪化・黄鉄鉱染帯を含む地域の地形図を作成する。
- 2) 上記地区内で地質精査を実施する(4km×3km)。
- 3) 鉱化帯を反映すると考えられるIP異常帯の詳細な分布状況を把握するため、IP法による物理探査を実施する。
- 4) IP異常帯および地化学探査の異常帯(Au、Cu、Ag、As、S)に対してボーリング調査を実施する。

(4) インバック川地区南部(グノンクリ地区)

地区北西部から中央部にかけての珪化・黄鉄鉱染帯が分布し、第2因子と第6因子の高い因子得点を持つ試料が分布する地域(7km×7km)に地質調査(準精査)及び岩石地化学探査を実施して本地区の鉱化作用の性質を明らかにし、インバック川地区北部の鉱化作用の南への連続を追跡する(Fig. III-2-3)。

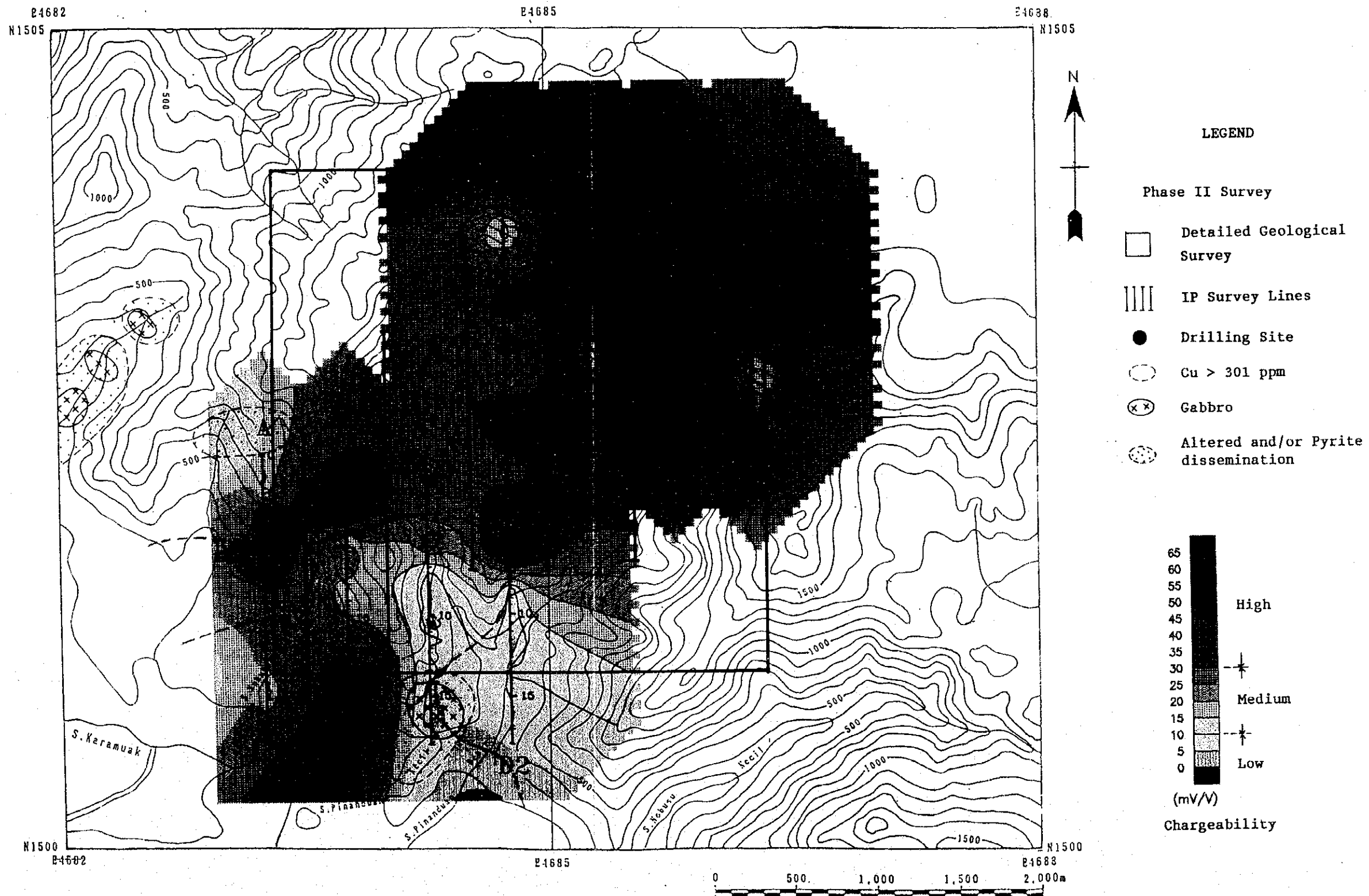


Fig.III-2-1 Recommendation for future work in Pinanduan Sub-area

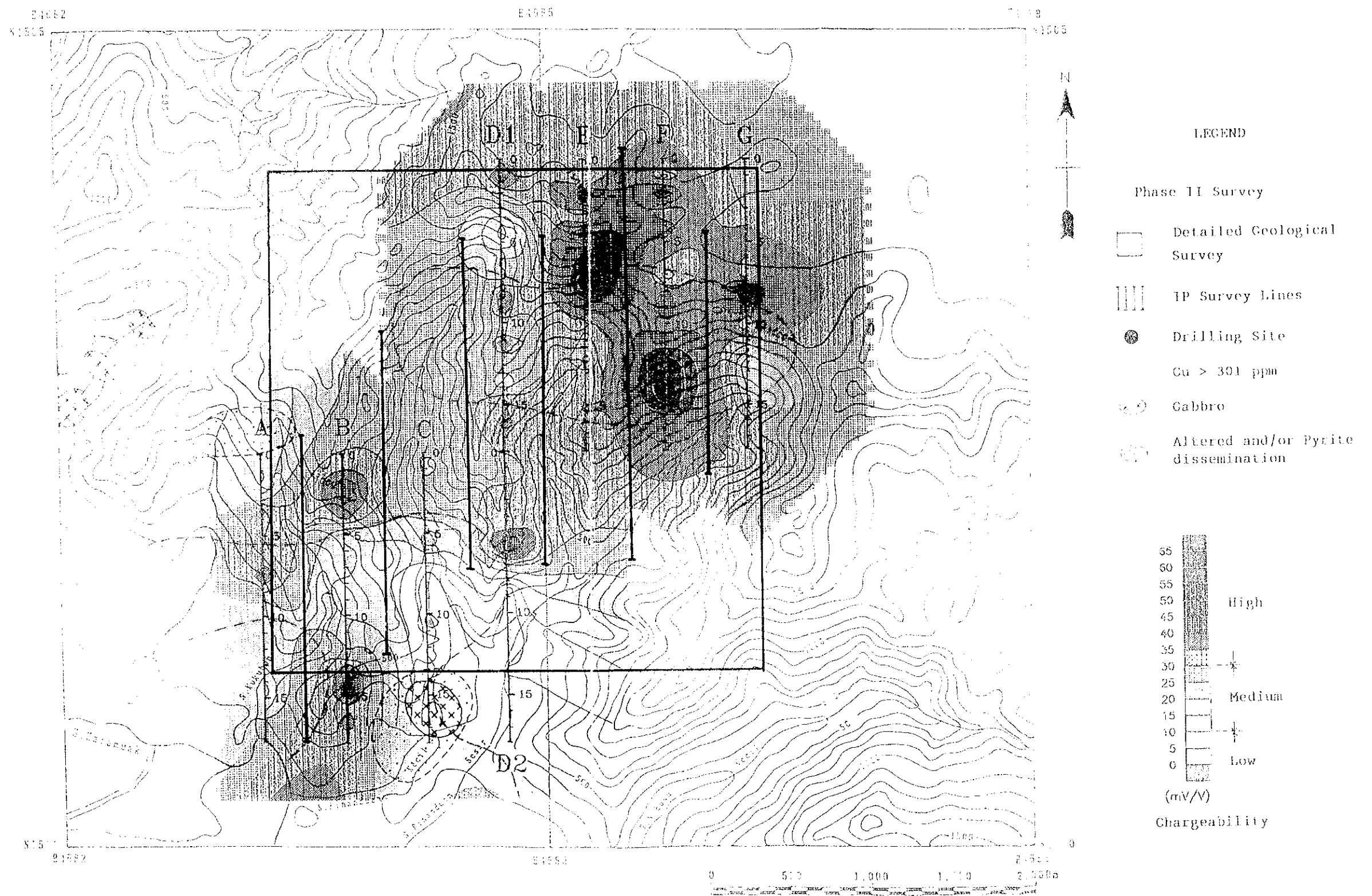


Fig.III-2-1 Recommendation for future work in Pinanduan Sub-area

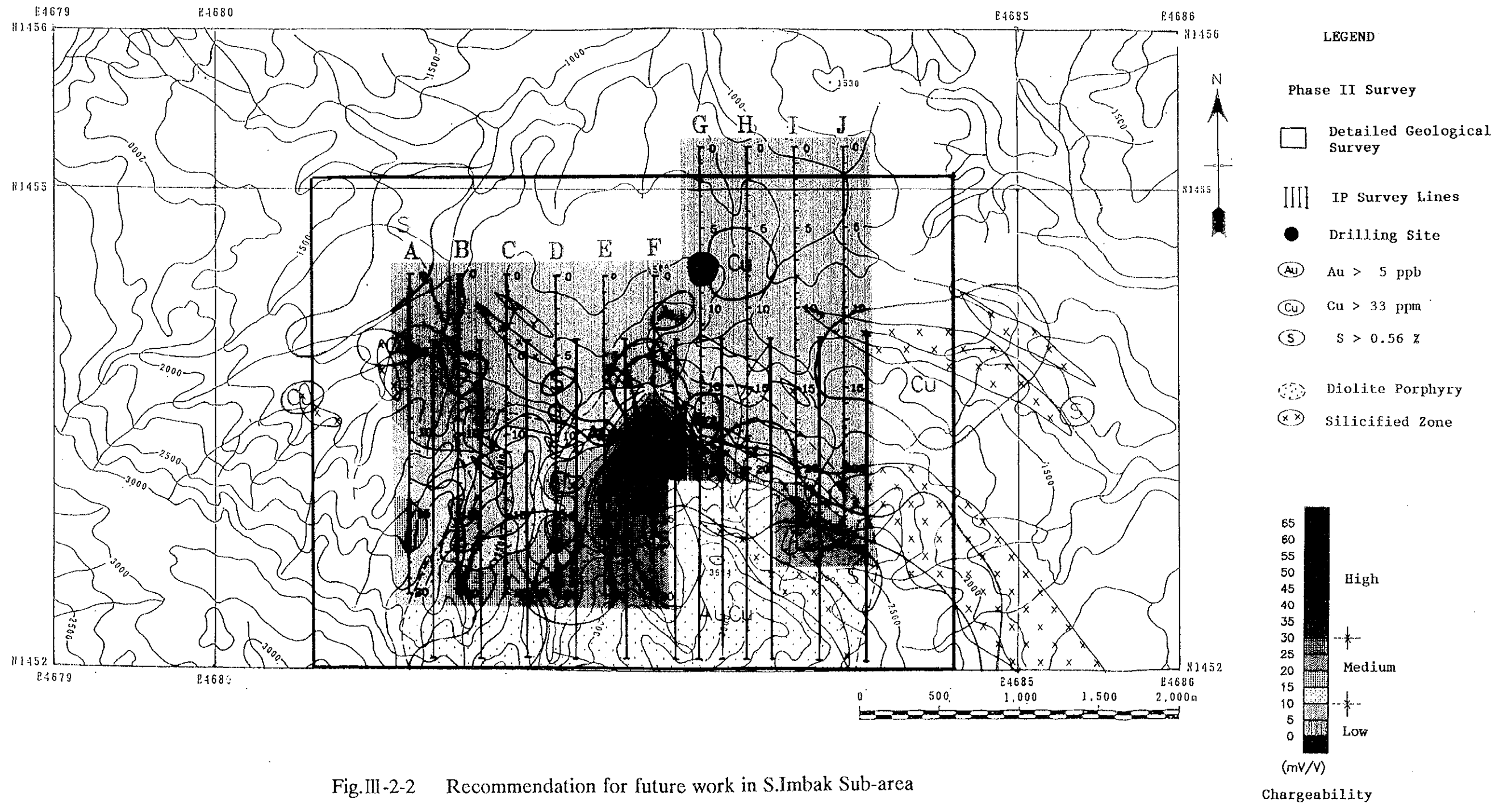
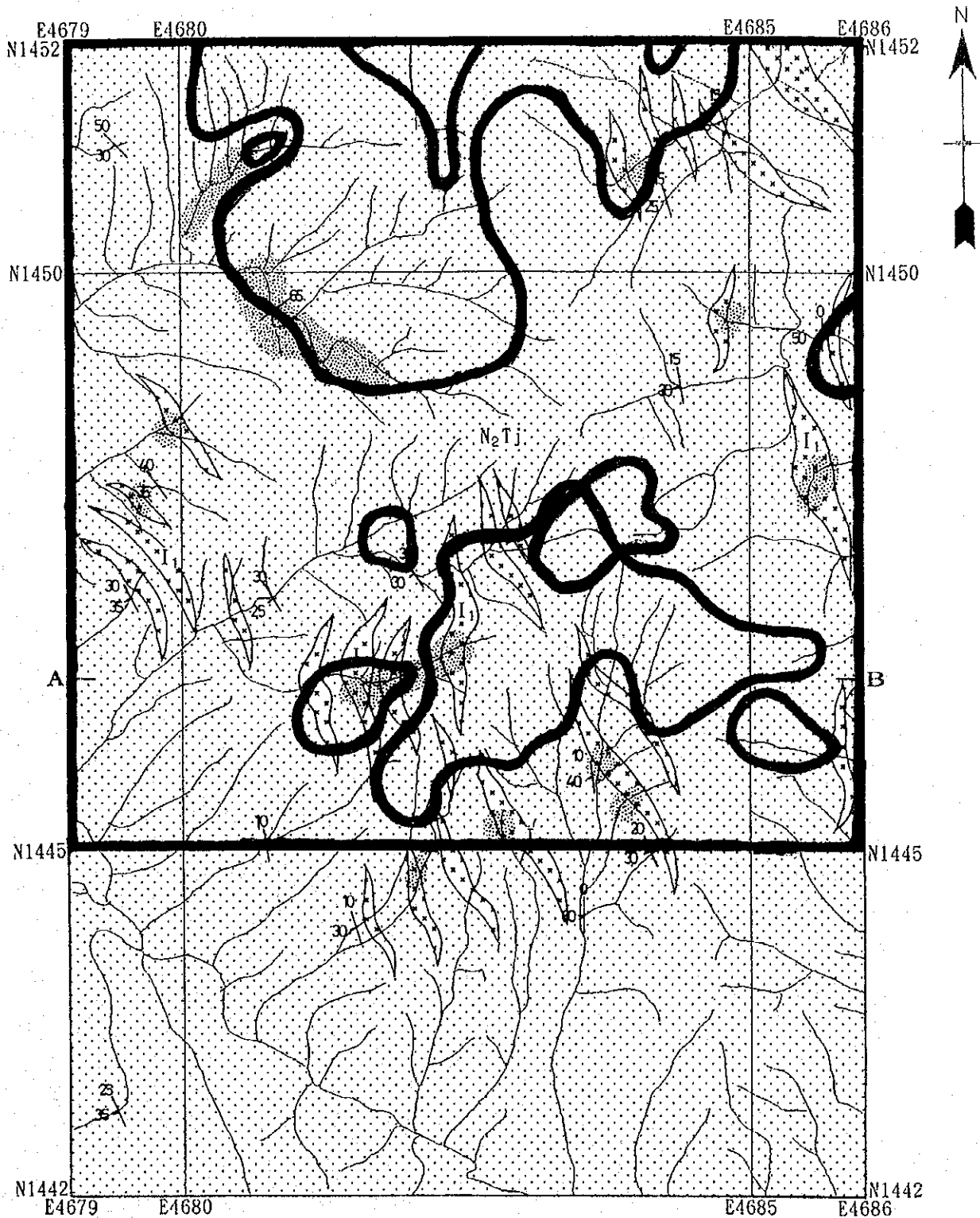


Fig.III-2-2 Recommendation for future work in S.Imbak Sub-area



- Zone of Factor 2 high factor scores
- Zone of Factor 6 high factor scores
- Area of recommendation for further work

Fig. III-2-3 Recommendation for future work in S. Imbak Sub-area (Gunong Kuli Sub-area)

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List of Figures

Fig. 1	Location map of the project area	
Fig. I-1	Location of the Central Sabah Area	4
Fig. I-2	Geologic map of Sabah, Malaysia	13
Fig. I-3	Distribution of mineral occurrences in the project area	15
Fig. I-4	Recommendation for future work in Pinanduan Sub-area	23
Fig. I-5	Recommendation for future work in S. Imbak Sub-area	25
Fig. I-6	Recommendation for future work in S. Imbak Sub-area (Gunong Kuli Sub-area)	27
Fig. II-1-1	Location map of hand auger and pit sites in Telupid West Sub-area	35
Fig. II-1-2	Sketch and analytical results of Pit	37
Fig. II-1-3	Distribution of Ni in Telupid West Sub-area	39
Fig. II-2-1	Geological map and cross sections of Pinanduan Sub-area (1)	51
Fig. II-2-1	Geological map and cross sections of Pinanduan Sub-area (2)	53
Fig. II-2-2	Schematic lithological succession of Pinanduan Sub-area	54
Fig. II-2-3	Location of mineral showings and laboratory work samples in Pinanduan Sub-area	55
Fig. II-2-4	Location of survey lines and rock samples	57
Fig. II-2-5	Wave form produced by the transmitter	45
Fig. II-2-6	Sampling interval of the IP receiver	45
Fig. II-2-7	Dipole-dipole array and plotting procedure	46
Fig. II-2-8	Flow chart of IP data analysis	59
Fig. II-2-9	Pseudo-section of apparent resistivity	61
Fig. II-2-10	Pseudo-section of chargeability	63
Fig. II-2-11	Plan map of apparent resistivity ($n=1$ and $n=4$)	65-68
Fig. II-2-12	Plan map of chargeability ($n=1$ and $n=4$)	69-72
Fig. II-2-13	Results of model simulation	73
Fig. II-2-14	Compilation of survey results in Pinanduan Sub-area	75
Fig. II-3-1	Geological map and cross sections of S. Imbak Sub-area (1)	107
Fig. II-3-1	Geological map and cross sections of S. Imbak Sub-area (2)	107
Fig. II-3-2	Schematic lithological succession of S. Imbak Sub-area	110
Fig. II-3-3	Location of mineral showings and laboratory work samples	111
Fig. II-3-4	Occurrences of mineralization (1)	113
Fig. II-3-4	Occurrences of mineralization (2)	115

Fig. II-3-5	Occurrence of native gold	117
Fig. II-3-6	Location map of rock geochemical samples in S. Imbak Sub-area	119
Fig. II-3-7	Distribution of geochemical anomalous zones in S. Imbak Sub-area	121
Fig. II-3-8	Distribution of factor scores in S. Imbak Sub-area	123
Fig. II-3-9	Results of X-ray diffraction analyses in S. Imbak Sub-area	125
Fig. II-3-10	Location of survey lines and rock sample	127
Fig. II-3-11	Pseudo-section of apparent resistivity	129
Fig. II-3-12	Pseudo-section of chargeability	131
Fig. II-3-13	Plan map of apparent resistivity (n=1 and n=4)	133
Fig. II-3-14	Plan map of chargeability (n=1 and n=4)	135
Fig. II-3-15	Results of model simulation	137
Fig. II-3-16	Geologic map and cross sections of S. Imbak Sub-Area (Gunong Kuli)	139
Fig. II-3-17	Location map of laboratory work samples in S. Imbak Sub-area (Gunong Kuli)	141
Fig. II-3-18	Location map of soil geochemical samples in S. Imbak Sub-area (Gunong Kuli)	142
Fig. II-3-19	Distribution of geochemical anomalous zones in S. Imbak Sub-area (Gunong Kuli)	143
Fig. II-3-20	Distribution of factor scores in S. Imbak Sub-area (Gunong Kuli)	145
Fig. II-3-21	Compilation of survey results in S. Imbak Sub-area	147
Fig. III-2-1	Recommendation for future work in Pinanduan Sub-area	177
Fig. III-2-2	Recommendation for future work in S. Imbak Sub-area	179
Fig. III-2-3	Recommendation for future work in S. Imbak Sub-area (Gunong Kuli Sub-area)	181

List of Tables

Table I-1	Summary of work amounts	5
Table I-2	Work amounts of laboratory studies	6
Table I-3	Statistics of temperature and rainfall	9
Table II-1-1	Result of X-ray diffraction analysis in the Telupid West Sub-area	40
Table II-2-1	Descriptions of thin sections of Pinanduan Sub-area	77
Table II-2-2	Descriptions of polished sections of Pinanduan Sub-area	78
Table II-2-3	Results of X-ray diffraction analyses in Pinanduan Sub-area	79
Table II-2-4	Assay results of Pinanduan Sub-area	80
Table II-2-5	Survey specification	44
Table II-2-6	Survey equipments	46
Table II-2-7	Resistivity and chargeability of rock samples	81
Table II-3-1	Description of thin section of S. Imbak Sub-area (1)	149
Table II-3-1	Description of thin section of S. Imbak Sub-area (2)	150
Table II-3-2	Description of polished sections of S. Imbak Sub-area	151
Table II-3-3	Results of X-ray diffraction analyses in S. Imbak Sub-area (1)	152
Table II-3-3	Results of X-ray diffraction analyses in S. Imbak Sub-area (2)	153

Table II-3-3	Results of X-ray diffraction analyses in S. Imbak Sub-area (3)	154
Table II-3-3	Results of X-ray diffraction analyses in S. Imbak Sub-area (4)	155
Table II-3-4	Assay results of S. Imbak Sub-area (1)	156
Table II-3-4	Assay results of S. Imbak Sub-area (2)	157
Table II-3-4	Assay results of S. Imbak Sub-area (3)	158
Table II-3-5	K-Ar ages of intrusive rocks in S. Imbak Sub-area	159
Table II-3-6	Occurrences of mineralization in S. Imbak Sub-area (1)	160
Table II-3-6	Occurrences of mineralization in S. Imbak Sub-area (2)	161
Table II-3-7	Statistics of rock geochemical survey in S. Imbak Sub-area	162
Table II-3-8	Results of factor analyses for rock samples in S. Imbak Sub-area	163
Table II-3-9	Survey specification	95
Table II-3-10	Resistivity and chargeability of rock samples	164
Table II-3-11	Description of thin section of S. Imbak Sub-area (Gunong Kuli) (1)	165
Table II-3-11	Description of thin section of S. Imbak Sub-area (Gunong Kuli) (2)	166
Table II-3-12	Description of polished sections of S. Imbak Sub-area (Gunong Kuli)	167
Table II-3-13	Results of X-ray diffraction analyses in S. Imbak Sub-area (Gunong Kuli)	168
Table II-3-14	Assay results of S. Imbak Sub-area (Gunong Kuli)	169
Table II-3-15	K-Ar ages of intrusive rocks in S. Imbak Sub-area (Gunong Kuli)	170
Table II-3-16	Statistics of soil geochemical survey in S. Imbak Sub-area (Gunong Kuli)	171
Table II-3-17	Results of factor analyses for soil samples in S. Imbak Sub-area (Gunong Kuli)	172

Plate

Plate II-2-1	Geologic map and cross sections of Pinanduan Sub-area	1 sheet	1:10,000
Plate II-3-1	Geologic map and cross sections of S. Imbak Sub-area	1 sheet	1:10,000

Appendices

Geological and geochemical surveys

Appendix 1	Description and analytical results of hand auger soil samples	A1
Appendix 2	List of rock geochemical samples in S. Imbak Sub-area	A41

Appendix 3	Analytical results of rock geochemical samples in S. Imbak Sub-area	A55
Appendix 4	Distribution map of elements in S. Imbak Sub-area	A63
Appendix 5	List of soil geochemical samples in S. Imbak Sub-area (Gunong Kuli)	A73
Appendix 6	Analytical results of soil geochemical samples in S. Imbak Sub-area (Gunong kuli)	A91
Appendix 7	Distribution map of elements in S. Imbak Sub-area (Gunong Kuli)	A99

Geophysical survey

Appendix 8	Pseudo-section of apparent resistivity in Pinanduan Sub-area	A105
Appendix 9	Pseudo-section of chargeability in Pinanduan Sub-area	A109
Appendix 10	IP model simulation in Pinanduan Sub-area	A113
Appendix 11	Pseudo-section of apparent resistivity in S. Imbak Sub-area	A123
Appendix 12	Pseudo-section of chargeability in S. Imbak Sub-area	A127
Appendix 13	IP model simulation in S. Imbak Sub-area	A131
Appendix 14	List of IP data measured in both sub-areas	A137

Appendix 1

Description and analytical results of hand auger soil samples

Auger No.: TW02
Coordinates: N= 4689.32, E= 1521.77
Vegetation: secondary forest
Slop: moderate

Depth (e)	Column	Description	Sample No.	Depth (e)	Analytical Results					
					Al (%)	Ca (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
1.0	RB	reddish brown lateritic soil with green ultra mafic pebbles	↑							
			TW0201	1.65	524	35.75	5.044	14.969		
1.0		Boulders	↓	1.0						Ave. 14.969
2.0										
3.0										
4.0										
5.0										
6.0										

Auger No.: TW01
Coordinates: N= 4689.32, E= 1521.98
Vegetation: secondary forest
Slop: flat

Depth (e)	Column	Description	Sample No.	Depth (e)	Analytical Results				
					Al (%)	Ca (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	DG	dark gray sandy soil	↑						
			TW0101	4.52	10	2.69	81	71	
2.0			↓	1.0					
			↑						
			TW0102	5.51	14	3.23	86	67	
2.0			↓	2.0					
			↑						
			TW0103	6.30	20	3.79	98	73	
3.0			↓	3.0					
			↑						
			TW0104	5.75	13	3.55	87	62	
3.7			↓	3.7					
4.0		Boulders							
5.0									
6.0									

Auger No.: TW03

Coordinates: N= 4689.32, E= 1521.62

Vegetation: secondary forest

Slop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fs (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	↑						
			TW0301	2.97	668	52.97	8,770	9,019	
1.0			↑						
2.0	RB	reddish brown lateritic soil	↑						
			TW0302	3.03	1,275	58.40	9,084	12,009	
2.0			↑						
2.8	RB	reddish brown lateritic soil	↑						
			TW0303	2.99	1,467	53.54	8,628	11,803	
2.8			↑						
3.0		boulders							
4.0									
5.0									
6.0									
									Ave. 10,944

Auger No.: TW04

Coordinates: N= 4689.31, E= 1521.37

Vegetation: secondary forest

Slop: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fs (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	↑						
			TW0401	2.53	642	50.79	6,225	12,744	
1.0			↑						
2.0	RB	reddish brown lateritic soil	↑						
			TW0402	3.00	745	52.47	5,941	14,175	
2.0			↑						
2.7	RB	reddish brown lateritic soil	↑						
			TW0403	1.20	481	31.40	3,783	13,595	
2.7			↑						
3.0		boulders							
4.0									
5.0									
6.0									
									Ave. 13,439

Auger No.: TW05
Coordinates: N= 4689.31, E= 1521.16
Vegetation: plantation of oil palm
Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Co(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)
1.0	OB	orange brown lateritic soil	↑						
1.1			TW0501	9.34	43	9.83	513	486	
1.0	B	brown lateritic soil with weathered ultraaafic rock fragments	↑						
1.4			TW0502	8.39	92	6.37	185	183	
2.0	RB		↑						
2.5			TW0503	7.59	22	4.78	105	170	
3.0	GG	greenish gray weathered ultraaafic rock (saprolite)	↑						
4.1			TW0504	7.63	36	5.11	87	354	
4.0	bedrock		↑						
4.1									
5.0									
6.0									
									Ave. 301

Auger No.: TW06
Coordinates: N= 4689.31, E= 5015.21
Vegetation: plantation of oil palm
Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Co(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)
0.05	OB	dark brown soil with organic material (humic soil)	↑						
1.0			TW0601	8.83	308	16.53	2.373	1.453	
1.0	B	orange brown lateritic soil with ultraaafic pebbles	↑						
1.4			TW0602	9.78	134	15.16	1.187	1.073	
2.0	RB	reddish brown lateritic soil	↑						
2.4			TW0603	10.54	52	12.96	318	506	
3.0	RB	reddish brown, strongly weathered, clayey ultraaafic rock (saprolite)	↑						
4.0			TW0604	10.11	143	11.61	197	452	
4.0	B	brown, strongly weathered ultraaafic rock (saprolite)	↑						
4.1			TW0605	9.88	75	11.45	108	531	
5.0			↑						
5.1									
6.0									
									Ave. 803

Auger No.: TW07
Coordinates: N= 4689.11, E= 1521.99

Vegetation: grass

Stop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	dark reddish brown lateritic soil with pebbles of yellowish ultramafic rock	TW0701	1.0	1.91	823	35.43	4,604	10,576
2.0			TW0702	2.0	2.22	820	38.99	5,048	11,181
3.0			TW0703	3.0	2.37	578	28.65	3,261	8,476
4.0		boulders							
5.0									
6.0									
								Ave. 10,077	

Auger No.: TW08
Coordinates: N= 4689.11, E= 1524.58

Vegetation: secondary forest

Stop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	TW0801	1.0	3.02	308	57.65	7,509	9,443
2.0			TW0802	2.0	2.46	1,195	56.88	7,737	10,936
3.0			TW0803	3.0	2.03	1,339	55.69	7,059	12,141
4.0		reddish brown lateritic soil with fragments of weathered ultramafic rock	TW0804	3.9	2.10	1,322	56.75	7,296	16,048
5.0		boulders							
6.0									
								Ave. 12,142	

Auger No.: TW10
 Coordinates: N= 4689.11, E= 1521.18
 Vegetation: secondary forest
 Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	B	brown lateritic soil with pebbles of weathered ultramafic rock	TW1001	1.0	2.38	890	35.33	8,462	8,305
1.5	B	brown weathered ultramafic rock (sapprolite)	TW1002	1.5	1.24	404	24.61	3,486	8,215
1.8		bed rock		1.8					Ave. 8,250
2.0									
3.0									
4.0									
5.0									
6.0									

Auger No.: TW09
 Coordinates: N= 4689.11, E= 1521.38
 Vegetation: secondary forest
 Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	B	brown lateritic soil	TW0901	1.0	2.55	831	52.69	6,511	8,303
1.7		bed rock	TW0902	1.7	2.34	1,489	57.68	7,364	11,171
2.0									Ave. 9,737
3.0									
4.0									
5.0									
6.0									

Auger No.: TW11

Coordinates: N= 4689.13, E= 1521.02

Vegetation: secondary forest

Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results			
					Al(%)	Co(ppm)	Fe(%)	Ni(ppm)
0.1		dark brown soil with organic material (humic soil)	TW101	0.1				
1.0	RB	reddish brown lateritic soil		1.0	8.23	36	5.85	286
1.2		reddish brown lateritic soil with fragments of ultramafic rock						
1.6	RB	reddish brown strongly weathered ultramafic rock	TW102		8.09	48	6.55	387
2.0								
2.1		bed rock		2.1				
3.0								
4.0								
5.0								
6.0								
								Avg. 436

Auger No.: TW12

Coordinates: N= 4689.15, E= 1520.81

Vegetation: secondary forest

Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results			
					Al(%)	Co(ppm)	Fe(%)	Ni(ppm)
1.0		orange brown lateritic soil with pebbles size fragments of strongly weathered ultramafic rock	TW1201	1.0	12.57	42	12.64	286
2.0	OB		TW1202		11.89	98	12.34	371
2.2		dark gray strongly weathered ultramafic rock (saproilite)	TW1203	2.0				
2.8				2.8	9.71	48	8.56	138
3.0		bed rock		2.8				
4.0								
5.0								
6.0								
								Avg. 265

Auger No.: TW14
 Coordinates: N= 4688.90, E= 1521.99
 Vegetation: bush
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	DB	Dark brown lateritic soil with ultramafic rock pebbles	TW1401	1.0	0.98	314	17.14	3.531	3.672
2.0	DB	Dark brown strongly weathered ultramafic rock (sapprolite)	TW1402	2.0	0.92	335	17.13	2.891	3.695
3.0									
4.0									
5.0									
6.0									
									Ave. 3.684

Auger No.: TW13
 Coordinates: N= 1689.11, E= 1520.57
 Vegetation: plantation of oil palm
 Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.9	OB	Orange brown lateritic soil	TW1301	1.0	11.60	45	12.82	404	349
1.0	OB	Orange brown lateritic soil with strongly weathered ultramafic rock fragments	TW1302	1.8	13.41	52	13.35	294	396
1.8	RB	Reddish brown strongly weathered ultramafic rock (sapprolite)	TW1303	2.0	13.04	106	11.60	281	325
2.6	YB	Yellowish brown strongly weathered ultramafic rock (sapprolite)	TW1304	3.0	11.90	111	10.09	254	153
3.0									
4.0									
4.1									
5.0									
6.0									
									Ave. 306

Auger No.: TW15
Coordinates: N= 4688.90, E= 1524.85

Vegetation: secondary forest
Slop: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil with ultramafic rock pebbles	↑						
			TW1501	1.53	412	28.97	3.361	3.633	
1.8	CC	greenish gray weathered ultramafic rock (sapprolite)	↑						
			TW1502	1.25	360	20.09	2.690	3.682	
2.0	CC	bed rock	↑						
			TW1503	0.49	209	10.10	765	3.367	
2.5			↓						
									Ave. 3.561
3.0									
4.0									
5.0									
6.0									

Auger No.: TW16
Coordinates: N= 4688.95, E= 1521.59

Vegetation: secondary forest
Slop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	↑						
			TW1601	3.41	341	57.80	8.895	8.949	
1.5	OB	orange brown lateritic soil	↑						
			TW1602	3.34	256	59.50	7.963	8.397	
2.0	OB	orange brown strongly weathered, clayey ultramafic rock (sapprolite)	↑						
			TW1603	3.20	557	52.14	8.628	8.782	
3.0	OB	bed rock	↑						
			TW1604	2.18	2,132	58.14	7,045	13,679	
3.9			↓						
4.0									Ave. 10,002
5.0									
6.0									

Auger No.: TM18
 Coordinates: N= 4598.91, E= 1521.03
 Vegetation: secondary forest
 Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (cm)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0		orange brown lateritic soil	↑						
1.0	OB		TM1801	↓	2.56	832	48.56	7.176	10.505
1.0			↑	1.0					
1.8			↑		1.72	773	42.88	4.509	10.357
1.8			↓	1.8					
2.0		boulders							Ave. 10.431
3.0									
4.0									
5.0									
6.0									

Auger No.: TM17
 Coordinates: N= 4698.91, E= 1521.37
 Vegetation: secondary forest
 Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0		reddish brown lateritic soil	↑						
1.0	RB		TM1701	↓	3.53	947	54.05	8.498	13.923
1.0			↑	1.0					
1.8			↑		3.52	956	53.93	8.284	14.829
1.8		reddish brown lateritic soil with weathered ultramafic rock fragments	↓	2.0					
2.0			↑		2.99	863	46.00	8.284	12.754
2.0	RB		TM1703	↓					
2.9			↑	2.9					
3.0		boulders							Ave. 13.835
4.0									
5.0									
6.0									

Auger No.: TW15
 Coordinates: N= 4688.91, E= 1520.78

Vegetation: secondary forest

Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Ca (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	↑						
1.2	RB		7W1901		2.99	902	53.41	8,870	12,606
1.2	RB	boulders	↓	1.2					Ave. 12,606

Auger No.: TW20
 Coordinates: N= 4688.91, E= 1520.57

Vegetation: secondary forest

Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Ca (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	YB	yellowish brown strongly weathered, clayey ultramafic rock (saprofite)	↑						
1.0	YB		TW2001		9.22	76	9.03	566	466
2.0	YB	brown strongly weathered ultramafic rock, texture preserved (saprofite)	↓	2.0					
2.0	YB		↑						
2.0	YB		TW2002		8.24	57	8.07	414	278
3.0	B		↓						
3.0	B		↑						
3.0	B		TW2003		8.24	46	6.60	457	281
4.0		bed rock	↓	4.0					
4.0			↑						
4.0			TW2004		7.43	50	6.27	419	278
5.0			↓						
6.0									Ave. 325

Auger No.: TW21
Coordinates: N= 4688.91, E= 1520.37
Vegetation: plantation of oil palm
Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.05		dark grey soil with organic material (humic soil)	↑						
1.0	OB	orange brown lateritic soil	TW2101	↓	10.08	29	12.24	494	223
1.2	OB	orange brown lateritic soil with reddish brown, weathered ultramafic pebbles	TW2102	↑	10.75	44	13.35	458	366
2.0	OB	orange brown lateritic soil	↑						
2.8	OB	orange brown lateritic soil with reddish brown, strongly weathered ultramafic pebbles	TW2103	↓	11.20	59	13.38	425	365
3.0	OB		↑						
4.0	OB		TW2104	↓	9.51	68	12.10	446	359
4.1	OB	reddish brown weathered ultramafic rock (saprofite)	↑						
5.0	RB		TW2105	↓	11.16	67	12.85	346	221
6.0									Ave. 307

Auger No.: TW22
Coordinates: N= 4688.70, E= 1521.79
Vegetation: secondary forest
Slop: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	↑						
2.0	RB		TW2201	↓	1.59	699	22.06	9,437	6,021
2.5	RB		↑						
2.5	RB		TW2202	↓	1.55	675	22.46	8,853	6,749
3.0			↑						
3.0			TW2203	↓	1.55	688	23.92	8,972	7,125
4.0			↑						
5.0									
6.0									Ave. 6,632

Auger No.: TW24
 Coordinates: N= 4688.78, E= 1521.40
 Vegetation: secondary forest
 Stop: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	↑						
			TW2401	2.67	765	44.39	9,498	12,044	
2.0	RB	reddish brown lateritic soil with orange brown fragments of weathered ultramafic rock.	↑						
			TW2402	2.89	806	46.75	9,659	12,250	
3.0	RB	boulders	↑						
			TW2403	2.58	761	41.27	9,902	12,147	
3.5			↑						
			TW2404	2.77	863	46.82	11,017	12,945	
4.0			↑						
5.0									
6.0									
									Ave. 12,197

Auger No.: TW23
 Coordinates: N= 4688.71, E= 1521.58
 Vegetation: secondary forest
 Stop: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	↑						
			TW2301	3.24	736	56.55	11,898	9,690	
2.0	RB		↑						
			TW2302	2.51	592	46.31	10,579	8,676	
2.5	RB	boulders	↑						
			TW2303	2.83	863	53.65	10,790	10,349	
3.0			↑						
									Ave. 9,527
4.0									
5.0									
6.0									

Auger No.: TW26
Coordinates: N= 4686.71, E= 1520.98
Vegetation: secondary forest
Stop: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Co(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)
1.0	RB	reddish brown lateritic soil	TW2601	1.0	3.12	852	54.58	10,446	9,870
2.0			TW2602	2.0	2.93	1,379	57.37	11,080	11,936
2.5		reddish brown lateritic soil with weathered ultramafic pebbles	TW2603	2.5	1.86	689	34.20	7,865	14,481
3.0				3.0					
3.1		boulders		3.1					Ave. 12,096
4.0				4.0					
5.0				5.0					
6.0				6.0					

Auger No.: TW25
Coordinates: N= 4686.69, E= 1521.17
Vegetation: secondary forest
Stop: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Co(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)
1.0	B	brown lateritic soil	TW2501	1.0	2.05	578	34.33	8,367	11,432
2.0			TW2502	2.0	1.35	498	23.87	6,302	8,648
2.9				2.9					
3.0		brown lateritic soil with fragments of orange brown weathered ultramafic rock	TW2503	3.0	1.37	511	24.47	6,042	8,880
3.5		boulders	TW2504	3.5	1.18	465	23.08	5,150	9,082
4.0				4.0					Ave. 9,511
5.0				5.0					
6.0				6.0					

Auger No.: TW27
 Coordinates: N= 4688.70, E= 1520.77
 Vegetation: secondary forest
 Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	TW2701	1.0	3.13	646	49.84	9.485	8.252
1.0			TW2702	1.0	2.82	1.020	49.56	10.924	9.902
1.8	boulders		↓	1.8					Ave. 9.077
2.0									
3.0									
4.0									
5.0									
6.0									

Auger No.: TW28
 Coordinates: N= 4688.71, E= 1520.57
 Vegetation: plantation of oil palm
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	B	brown lateritic soil	TW2801	1.0	3.35	616	49.55	12.013	7.981
1.0			TW2802	1.0	3.39	750	49.86	12.328	8.969
1.8	boulders		↓	1.8					Ave. 8.475
2.0									
3.0									
4.0									
5.0									
6.0									

Auger No.: TW29
 Coordinates: N= 4688.71, E= 1520.37
 Vegetation: plantation of oil palm
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.05		reddish brown lateritic soil	TW2901	0.05	9.92	164	17.55	1,583	3,000
1.0	RB			1.0					
1.6		yellowish brown, strongly weathered, clayey ultramafic rock, texture preserved (saprolite)	TW2902	1.6	11.93	135	14.48	1,099	2,063
2.0				2.0					
2.2				2.2					
3.0	YB			3.0	10.11	103	11.57	825	2,168
4.0				4.0					
4.1				4.1					
4.6		greenish grey weathered clayey ultramafic rock (saprolite)	TW2905	4.6	10.05	95	7.71	908	2,278
5.0	GG			5.0					
5.2				5.2					
6.0				6.0					
									Ave. 2,282

Auger No.: TW30
 Coordinates: N= 4688.77, E= 1520.17
 Vegetation: plantation of oil palm
 Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.05		dark gray soil with organic material (humic soil)	TW3001	0.05	10.63	90	17.38	2,523	1,630
1.0	OB			1.0					
2.0				2.0					
2.2		reddish brown lateritic soil	TW3002	2.2	10.72	38	15.51	2,161	1,298
3.0	RB			3.0					
4.0				4.0					
4.1				4.1					
5.0		reddish brown lateritic soil with weathered ultramafic pebbles	TW3003	5.0	12.62	40	16.10	2,070	1,356
6.0				6.0					
									Ave. 1,139

Auger No.: TW31

Coordinates: N= 4688.57, E= 1521.88

Vegetation: secondary forest

Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (#)	Analytical Results				
					Al (%)	Ca (ppm)	Pb (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	TW3101	1.0	3.42	976	51.71	10,392	11,062
1.0			TW3102	1.0	3.64	1,039	53.96	11,560	12,619
2.0			TW3103	2.0	3.61	1,060	54.24	12,091	12,840
2.7	Boulders			2.7					
2.7									Ave. 12.174
3.0									
4.0									
5.0									
6.0									

Auger No.: TW32

Coordinates: N= 4688.50, E= 1521.56

Vegetation: secondary forest

Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (#)	Analytical Results				
					Al (%)	Ca (ppm)	Pb (%)	Cr (ppm)	Ni (ppm)
0.05	B	dark gray soil with organic material (humic soil) brown lateritic soil	TW3201	0.05	2.77	1,196	43.22	11,219	7,032
1.0			TW3202	1.0	2.89	1,221	44.92	10,652	7,390
2.0	OB	orange brown lateritic soil	TW3203	2.0	2.86	1,582	48.03	15,401	8,556
3.0			TW3204	3.0	2.79	1,053	46.24	15,354	8,064
4.0	OB	orange brown lateritic soil with reddish brown ultrabasic rock fragments	TW3205	4.0	1.81	619	46.61	12,352	7,492
4.2									
5.0				5.0				Ave. 7.697	
6.0									

Auger No.: TR34
Coordinates: N= 4685.45, E= 5015.21
Vegetation: secondary forest
Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					A (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.05		dark gray soil with organic material (humic soil)	↑	0.05					
1.0	B	brown lateritic soil	TR3401	1.0	2.66	696	40.19	8.348	7.659
2.0		brown lateritic soil with reddish brown bands	↑	2.0					
3.0	B		TR3403	3.0	2.37	760	43.03	8.998	8.853
4.0	B	brown lateritic soil with weathered ultrabasic rock fragments	↑	4.0	2.30	911	43.24	11.107	9.681
5.0	B		↑	5.0	2.41	904	41.12	11.763	11.708
6.0			↑	6.0	2.35	663	39.96	9.344	12.366
									Ave. 10.053

Auger No.: TR33
Coordinates: N= 4688.50, E= 1521.38
Vegetation: secondary forest
Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					A (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.05		dark gray soil with organic material (humic soil)	↑	0.05					
1.0	B	brown lateritic soil	TR3301	1.0	3.20	940	53.32	10.374	12.038
2.0	B	brown lateritic soil with weathered ultrabasic rock fragments	↑	2.0					
3.0	B		TR3302	3.0	3.13	862	47.98	11.779	11.625
4.0	B		↑	4.0					
5.0	B		TR3303	5.0	3.35	676	38.61	9.351	9.729
6.0		boulders	↑	6.0					
									Ave. 11.131

Auger No.: TW36 Coordinates: N= 4698.48, E= 1520.86 Vegetation: secondary forest Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
0.1		dark gray soil with organic material (humic soil)	↑	0.1						
1.0	RB	reddish brown lateritic soil	TW3601	1.0	3.03	885	45.73	7.660		8.938
1.6		reddish brown lateritic soil mixed with yellowish soil	↑							
2.0	RB	reddish brown lateritic soil	TW3602	2.0	3.25	882	48.49	8.213		9.903
2.6		yellowish brown soil	↑							
3.0	YB	yellowish brown soil	TW3603	3.0	6.42	352	20.38	2.245		6.735
3.5		light brown soil mixed with reddish brown soil	↑							
4.0	LB	light brown soil mixed with reddish brown soil	TW3604	4.0	7.16	113	8.84	634		2.568
4.5	RB	reddish brown lateritic soil	↑							
5.0			TW3605	5.0	8.35	65	7.25	396		1.917
6.0				6.0						Ave. 6.012

Auger No.: TW35 Coordinates: N= 4698.51, E= 1520.97 Vegetation: plantation of oil palm Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
0.05		dark gray soil with organic material (humic soil)	↑	0.05						
1.0	DB	dark brown lateritic soil	TW3501	1.0	3.83	821	40.86	8.751		9.257
2.0		reddish and yellowish brown lateritic soil	↑							
2.3	RB	reddish and yellowish brown lateritic soil	TW3502	2.3	4.97	686	48.86	7.490		10.629
3.0		orange brown lateritic soil	↑							
3.0	OB	orange brown lateritic soil	TW3503	3.0	6.88	469	22.94	2.765		7.950
4.0			↑							
4.0	OB	orange brown lateritic soil	TW3504	4.0	4.97	590	41.12	9.535		9.401
5.0			↑							
5.0			TW3505	5.0	4.71	556	41.35	9.781		9.875
6.0				6.0						Ave. 9.420

Auger No.: TW38
 Coordinates: N= 4888.51, E= 1520.17
 Vegetation: plantation of oil palm
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Pb (%)	Cr (ppm)	Mn (ppm)
1.0		dark reddish brown lateritic soil	TW3801	1.0	4.53	424	45.79	8,449	7,634
2.0	RB		TW3802	2.0	4.32	751	45.46	8,308	8,616
3.0			TW3803	3.0	4.94	845	51.78	9,576	10,619
4.0			TW3804	4.0	5.32	553	53.52	10,921	10,679
4.1			TW3805	4.1	5.27	546	54.40	12,440	10,637
4.6	YB	yellowish brown lateritic soil with pebbles of ultramafic rocks		4.6					
5.0		boulders							
6.0									Ave. 9,637

Auger No.: TW37
 Coordinates: N= 4688.51, E= 5015.20
 Vegetation: plantation of oil palm
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Pb (%)	Cr (ppm)	Mn (ppm)
1.0	RB	reddish brown lateritic soil	TW3701	1.0	3.50	357	55.11	8,376	8,752
2.0			TW3702	2.0	3.04	1,222	56.93	8,531	11,396
2.5		reddish brown lateritic soil with orange brown bands and reddish brown, weathered ultramafic rock fragments	TW3703	2.5	2.35	1,936	57.37	8,891	13,041
3.0	RB		TW3704	3.0	1.89	2,952	59.34	9,149	15,462
3.6	YB	yellowish gray weathered ultramafic rock (saprolite)		3.6					
3.8		bed rock		3.8					
4.0									Ave. 12,163
5.0									
6.0									

Auger No.: TW39
Coordinates: N= 4688.31, E= 1520.97

Vegetation: secondary forest

Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.1			↑	0.1					
		dark brown soil with organic material (humic soil)	TW3901		9.48	143	14.59	1,600	977
1.0	B		↓	1.0					
			↑		10.28	131	12.99	1,121	755
2.0			↓	2.0					
		brown soil with bands of dark brown soil	TW3902		8.29	98	10.06	708	456
3.0	B		↑	3.0					
			↓		8.24	124	10.26	923	580
4.0			↑	4.0					
		brown soil with bands of white clayey soil	TW3903		9.14	95	10.47	727	480
5.0			↓	5.0					
									Ave. 650

Auger No.: TW40
Coordinates: N= 4686.29, E= 1520.83

Vegetation: bush

Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0			↑	1.0					
		yellowish brown soil	TW4001		9.11	87	12.47	1,340	764
2.0	YB		↑	2.0					
			↓		9.36	102	10.54	754	620
2.4			↑	2.4					
		dark gray soil	TW4002		6.69	110	10.23	1,349	890
3.0	DC		↑	3.0					
			↓		8.38	99	7.46	2,187	1,076
4.0			↑	4.0					
			↓						Ave. 655
5.0									
6.0									

Auger No.: TM42
 Coordinates: N= 4688.32, E= 1520.37
 Vegetation: plantation of oil palm
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	B	brown lateritic soil	↑						
			TM4201	5.82	639	51.95	11.889	9.577	
2.0	B		↑						
			TM4202	5.15	962	50.38	11.927	17.254	
2.3			↓	2.3					
3.0									
4.0									
5.0									
6.0									
								Ave. 13.416	

Auger No.: TM41
 Coordinates: N= 4688.32, E= 1520.37
 Vegetation: bush
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.05			↑	0.05					
		dark brown soil with organic material (humic soil)							
		brown lateritic soil							
1.0	B		↑						
			TM4101	3.91	685	39.90	8.749	8.754	
2.0	B		↑						
			TM4102	4.43	705	41.99	7.971	8.797	
3.0	B		↑						
			TM4103	6.52	671	25.39	6.450	5.578	
4.0	B		↑						
			TM4104	4.82	1,049	36.83	10.360	8.683	
4.1			↓	4.1					
5.0									
6.0									
								Ave. 7.953	

Auger No.: TM43

Coordinates: N= 4688.32, E= 1520.17

Vegetation: plantation of oil palm

Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0		dark reddish brown lateritic soil	TM4301	1.0	3.52	277	45.23	10,044	7,276
1.0	RB								
2.0			TM4302	2.0	4.47	849	57.65	13,313	10,245
2.3	OB	orange brown strongly weathered ultramafic rock (saprolite)	TM4303	2.3	3.40	1,127	52.77	8,382	11,893
2.8	DB	boulders		2.8					
3.0									Ave. 9,805
4.0									
5.0									
6.0									

Auger No.: TM44

Coordinates: N= 4688.07, E= 1520.79

Vegetation: bush

Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
0.05		dark gray soil with organic material (humic soil)	TM4401	0.05	8.98	97	10.62	937	579
1.0	B		TM4402	1.0	9.34	97	11.25	890	648
2.0			TM4403	2.0	8.83	103	10.78	1,374	674
2.5		boulders		2.5					Ave. 634
3.0									
4.0									
5.0									
6.0									

Auger No.: TM45
 Coordinates: N= 4989.08, E= 1520.65
 Vegetation: bush
 Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
0.1		dark brown soil with organic material (humic soil)		0.1						
1.0	B	brown soil	TM4501		8.23	94	10.09	672	539	
1.2		boulders		1.2						
2.0										
3.0										
4.0										
5.0										
6.0										
										Ave. 539

Auger No.: TM46
 Coordinates: N= 4688.07, E= 1520.44
 Vegetation: bush
 Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
0.1		dark gray soil with organic material (humic soil)		0.1						
1.0	B	brown lateritic soil	TM4601		8.95	150	12.27	1,502	734	
2.0			TM4602		9.54	123	11.91	973	598	
2.3		brown lateritic soil with dark brown ultramafic rock pebbles	TM4603		8.56	110	10.86	931	539	
3.0			TM4604		9.07	100	10.93	833	574	
4.0				4.0						
5.0										
6.0										
										Ave. 611

Auger No.: TM48
 Coordinates: N= 4688.23, E= 1519.40
 Vegetation: secondary forest
 Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
0.05			↑	0.05						
1.0		dark brown soil with organic material (humic soil)	TM4801	↓	7.82	553	39.90	9.030	4.646	
2.0	OB	orange brown lateritic soil	↑	2.0						
3.0			↑	3.0						
3.4			↑	3.4						
3.6	OB	orange brown lateritic soil with weathered yellowish ultramafic rock pebbles	TM4803	↓	6.16	762	42.22	9.877	7.537	
4.0	OB	fine orange brown lateritic soil	↑	4.0						
4.1			↓	4.1						
5.0				5.0						
6.0				6.0						
										Ave. 6.431

Auger No.: TM47
 Coordinates: N= 4686.22, E= 1519.60
 Vegetation: plantation of oil palm
 Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
0.05			↑	0.05						
1.0	DB	dark brown soil with organic material (humic soil)	TM4701	↓	8.04	254	35.06	9.219	3.614	
2.0	DB	dark brown lateritic soil with weathered reddish brown ultramafic pebbles	↑	2.0						
2.2	DB	orange brown - yellowish brown strongly weathered ultramafic rock (sapprolite)	TM4702	↓	9.10	486	33.78	10.123	3.588	
3.0	OB		↑	3.0						
3.2			↑	3.2						
4.0			↑	4.0						
4.1			↓	4.1						
5.0				5.0						
6.0				6.0						
										Ave. 1.988

Auger No.: TWS0
Coordinates: N= 4688.23, E= 1518.99
Vegetation: bush
Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
0.05				0.05						
		dark brown soil with organic material (humic soil)	TWS001		7.98	348	50.19	10.092	4.523	
1.0		brown lateritic soil		1.0						
			TWS002		7.03	770	43.36	8.302	4.335	
2.0				2.0						
			TWS003		7.22	671	43.79	9.275	4.512	
2.8		brown lateritic soil with yellowish green, weathered ultramafic rock pebbles		3.0						
3.0				3.0						Ave. 4.457
4.0				4.0						
5.0				5.0						
6.0				6.0						

Auger No.: TW49
Coordinates: N= 4688.23, E= 1519.20
Vegetation: secondary forest
Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)	
		orange brown lateritic soil								
1.0			TW4901		12.98	103	25.22	3.869	1.625	
				1.0						
			TW4902		13.39	84	26.41	3.695	1.956	
2.0				2.0						
			TW4903		11.97	56	19.06	2.473	1.342	
3.0				3.0						
		reddish brown lateritic soil with rare, strongly weathered pebbles of ultramafic rock	TW4904		13.56	106	19.35	1.105	1.040	
3.3				4.1						
4.0				4.1						Ave. 1.542
5.0				5.0						
6.0				6.0						

Auger No.: TMS1

Coordinates: N= 4688.32, E= 1518.83

Vegetation: secondary forest

Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Pb (ppm)	Cr (ppm)	Ni (ppm)
0.05		dark brown soil with organic material (humic soil)	TMS101	0.05	5.90	220	43.31	9.972	5.366
1.0	B	brown lateritic soil		1.0					
1.7	B	brown lateritic soil with yellowish green, weathered ultramafic rock pebbles	TMS102		5.96	553	40.04	10.000	7.529
2.0		boulders		2.0					Ave. 6.448
3.0									
4.0									
5.0									
6.0									

Auger No.: TMS2

Coordinates: N= 4688.03, E= 1519.70

Vegetation: plantation of oil palm

Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Pb (ppm)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	TMS201	1.0	5.60	796	37.98	6.326	5.574
2.0			TMS202		6.12	890	45.97	7.559	7.799
2.2		reddish brown lateritic soil with greenish gray weathered ultramafic rock pebbles	TMS203	2.0					
3.0									
3.1	RB	reddish brown lateritic soil mixed with greenish brown lateritic soil	TMS204	3.0	2.00	615	34.66	3.713	9.514
3.4		boulders		3.4					Ave. 7.778
4.0									
5.0									
6.0									

Auger No.: TWS3
 Coordinates: N= 4688.02, E= 1519.59

Vegetation: plantation of oil palm

Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Co(ppm)	Pb(%)	Cr(ppm)	Ni(ppm)
1.0	RB	reddish brown lateritic soil	TWS301	↑	4.21	779	54.23	11,188	10,516
1.0			↓						
1.8	RB	brown lateritic soil with black weathered ultrabasic pebbles	TWS302	↑	3.12	933	47.95	10,184	10,703
2.0			↓						
3.0	RB		TWS303	↑	3.04	1,851	55.81	11,013	13,003
3.0			↓						
4.0	RB		TWS304	↑	1.92	1,092	49.22	11,168	15,829
4.0			↓						
5.0								Ave. 12,513	
6.0									

Auger No.: TWS4
 Coordinates: N= 4688.01, E= 1519.14

Vegetation: secondary forest

Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Co(ppm)	Pb(%)	Cr(ppm)	Ni(ppm)
1.0	B	brown - yellowish brown lateritic soil	TWS401	↑	11.39	132	18.46	2,430	1,135
1.0			↓						
2.0	RB	dark reddish brown lateritic soil	TWS402	↑	14.42	23	13.64	711	311
2.0			↓						
3.0	RB		TWS403	↑	14.44	30	14.45	736	341
3.0			↓						
4.0	RB		TWS404	↑	13.13	21	12.74	613	285
4.0			↓						
5.0	RB	brown lateritic soil with reddish brown weathered ultrabasic rock pebbles	TWS405	↑	12.39	35	11.34	450	281
5.0			↓						
6.0								Ave. 475	

Auger No.: TW56
 Coordinates: N= 4686.03, E= 1518.77

Vegetation: secondary forest
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fo (%)	Cr (ppm)	Ni (ppm)
1.0	OB	orange brown lateritic soil	TW5601	1.0	6.25	341	50.26	9,950	5,665
2.0	OB		TW5602	2.0	6.45	668	50.10	10,189	6,079
2.8	RB	reddish brown lateritic soil with strongly weathered ultramafic rock fragments	TW5603	3.0	6.58	1,246	43.39	9,885	7,844
3.0	RB		TW5604	4.0	3.75	767	29.44	8,346	18,334
3.2	YB	yellowish brown weathered ultramafic rock (saprofite)	TW5605	4.7	2.65	344	19.13	5,882	15,597
4.0	YB			4.7					Ave. 10,704
5.0		bed rock		5.0					
6.0				6.0					

Auger No.: TW55
 Coordinates: N= 4686.02, E= 1518.98

Vegetation: secondary forest
 Slope: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fo (%)	Cr (ppm)	Ni (ppm)
1.0	OB	orange brown lateritic soil	TW5501	1.0	6.40	296	36.37	7,315	4,440
2.0	OB		TW5502	2.0	7.38	491	43.76	8,003	6,022
2.3	OB	orange brown lateritic soil with strongly weathered ultramafic rock fragments	TW5503	3.2	6.31	844	40.80	8,125	6,930
3.0	OB			3.2					Ave. 5,797
3.2		bed rock		4.0					
4.0				5.0					
5.0				6.0					

Auger No.: TW57
Coordinates: N= 4687.83, E= 1519.78
Vegetation: plantation of oil palm
Stop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Ca(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)
1.0	B	brown - yellowish brown lateritic soil	TW5701	1.0	16.06	14	7.85	1,378	386
1.1	B	brown - reddish brown lateritic soil with greenish gray weathered ultramafic rock pebbles	TW5702	2.0	15.43	15	9.20	1,301	407
2.5	B	yellowish brown - light brown lateritic soil with white clay spot	TW5704	3.0	15.58	40	6.06	1,335	621
4.0	YB	light brown and pale green strongly weathered, clayey ultramafic rock (saprolite)	TW5704	4.0	15.60	56	5.06	1,036	505
4.2	YB		TW5705	5.0	15.60	69	4.82	954	466
5.0				5.0					Ave. 477

Auger No.: TW58
Coordinates: N= 4687.83, E= 1519.98
Vegetation: plantation of oil palm
Stop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al(%)	Ca(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)
1.0	B	brown - yellowish brown lateritic soil	TW5801	1.0	14.71	104	18.06	2,427	1,765
1.2	B	brown - yellowish brown lateritic soil with reddish brown sandy soil	TW5802	2.0	15.28	70	12.04	1,104	464
2.5	B	yellowish brown lateritic soil with reddish brown pebbles of ultramafic rock	TW5803	3.0	12.15	27	10.02	713	315
3.0	YB	boulders	TW5804	3.8	12.77	39	11.03	950	327
4.0				3.8					Ave. 718
5.0				5.0					
6.0				6.0					

Auger No.: TW69
Coordinates: N= 4887.83, E= 1519.39

Vegetation: plantation of oil palm

Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil with greenish gray weathered ultramafic rock pebbles	TW6901	1.0	4.40	1,225	50.34	9,567	11,198
1.8			TW6902	1.8	4.20	1,750	56.37	10,065	15,611
2.0	B	boulders		1.8					Ave. 13,405
3.0									
4.0									
5.0									
6.0									

Auger No.: TW60
Coordinates: N= 4687.83, E= 1519.18

Vegetation: secondary forest

Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	A	brown lateritic soil with weathered ultramafic pebbles	TW6001	1.0	6.71	620	41.52	8,245	5,798
2.0			TW6002	2.0	7.93	199	31.76	6,081	3,090
3.0	G	grey - greyish brown clayey soil	TW6003	3.0	6.46	345	44.10	9,147	3,883
3.8			TW6004	3.8	7.71	270	34.98	9,022	3,829
4.0		dark gray basic soil		4.0					Ave. 4,150
5.0									
6.0									

Auger No.: TW61
 Coordinates: N= 4687.83, E= 1518.96
 Vegetation: secondary forest
 Stop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fa (%)	Cr (ppm)	Ni (ppm)
0.05			↑	0.05					
0.9		dark gray soil with organic material (humic soil)	TW6101		3.74	1,042	53.14	9,614	9,448
1.0		brown lateritic soil	↑	1.0					
		orange brown lateritic soil	↑	2.0					
			TW6102		5.21	718	49.75	8,767	6,923
			↑	3.0					
			TW6103		4.91	674	46.35	9,108	6,308
			↑	4.0					
			TW6104		4.02	1,466	51.68	8,410	9,613
			↑	4.2					
									Ave. 8,073

Auger No.: TW62
 Coordinates: N= 4687.83, E= 1518.77
 Vegetation: secondary forest
 Stop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fa (%)	Cr (ppm)	Ni (ppm)
			↑						
		orange brown lateritic soil	TW6201		6.38	616	49.06	10,370	4,936
			↑	1.0					
			TW6202		6.67	1,066	44.70	10,042	5,526
			↑	2.0					
			TW6203		6.01	942	39.91	9,068	4,920
			↑	3.0					
			TW6204		6.01	870	40.37	9,374	6,895
			↑	3.6					
									Ave. 5,569

Auger No.: TW62
Coordinates: N= 4687.65, E= 1519.57

Vegetation: plantation of oil palm

Slop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	YB	yellowish brown lateritic soil	TW6301	1.0	15.41	61	15.59	2,255	1,257
1.9		yellowish brown lateritic soil mixed with reddish brown soil	TW6302	2.0	15.45	38	11.32	1,420	829
2.0	YB		TW6303	3.0	13.82	62	9.12	1,085	869
3.0		dark greenish gray strongly weathered ultramafic rock	TW6304	3.5	13.49	471	15.64	1,567	1,135
3.5	GG	bed rock							Ave. 1,023

Auger No.: TW64
Coordinates: N= 4687.68, E= 1519.39

Vegetation: plantation of oil palm

Slop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	reddish brown lateritic soil	TW6401	1.0	4.17	583	57.10	13,021	7,998
1.6		brown - slightly reddish brown lateritic soil with weathered ultramafic rock pebbles	TW6402	2.0	3.80	1,299	59.64	13,736	9,424
2.0			TW6403	2.9	4.09	1,781	58.85	12,756	10,171
3.0		boulders		2.9					Ave. 9,188

Auger No.: TM66
Coordinates: N= 4689.32, E= 1520.58
Vegetation: plantation of oil palm
Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results						
					Al(%)	Co(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)		
0.9											
1.0		reddish brown lateritic soil									
1.8											
2.0											
2.9											
3.0											
4.0											
5.0											
6.0											

Auger No.: TM65
Coordinates: N= 4689.32, E= 1520.78
Vegetation: plantation of oil palm
Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results					
					Al(%)	Co(ppm)	Fe(%)	Cr(ppm)	Ni(ppm)	
1.0										
1.4										
2.0										
3.0										
3.3										
3.8										
4.0										
5.0										
6.0										

Auger No.: TW67
Coordinates: N= 4689.12, E= 1520.39

Vegetation: plantation of oil palm

Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	C (ppm)	Ni (ppm)
1.0	B	brown lateritic soil with weathered ultramafic rock pebbles	↑						
			TW6701	9.10	270	15.33	1,233	295	
1.0	B		↑						
			TW6702	9.56	255	16.33	1,312	436	
2.0	B	brown lateritic soil with dark gray weathered ultramafic rock pebbles	↑						
			TW6703	4.24	166	10.75	1,146	964	
3.0	GG	greenish gray strongly weathered ultramafic rock (sapprolite)	↑						
			TW6704	4.63	88	9.09	827	577	
3.6		bed rock	↑						
4.0								Ave. 576	
5.0									
6.0									

Auger No.: TW68
Coordinates: N= 4686.91, E= 1520.78

Vegetation: plantation of oil palm

Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	C (ppm)	Ni (ppm)
1.0	YB	yellowish brown soil	↑						
			TW6801	11.02	21	12.44	245	121	
2.0	RB	pale reddish to yellowish brown soil	↑						
			TW6802	11.64	27	12.27	236	121	
3.0	B	brown to light brown soil	↑						
			TW6803	12.71	67	12.66	283	158	
4.0			↑						
			TW6804	10.59	52	10.77	305	174	
4.5			↑						
			TW6805	9.73	41	9.33	222	148	
5.0									
6.0									
								Ave. 144	

Auger No.: TW69
Coordinates: N= 4688.71, E= 1520.00
Vegetation: plantation of oil palm
Slop: moderate

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	LB	light brown soil	↑						
			TW6901	11.75	15	13.06	532	134	
1.9	LB	light brown soil with rare weathered ultramafic pebbles	↑						
2.0			TW6902	12.31	15	12.91	454	141	
3.0	LB	yellowish brown soil with weathered ultramafic pebbles	↑						
3.2			TW6903	12.43	13	13.25	470	145	
3.9	YB	boulders	↑						
4.0			TW6904	14.08	22	14.48	458	140	
5.0									
6.0									
									Ave. 140

Auger No.: TW70
Coordinates: N= 4688.52, E= 1520.00
Vegetation: plantation of oil palm
Slop: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	B	brown to slightly reddish brown lateritic soil	↑						
			TW7001	12.32	62	26.76	3,817	2,219	
2.0	B		↑						
			TW7002	13.29	65	27.56	3,659	2,298	
3.0	B		↑						
			TW7003	11.92	72	28.30	4,095	2,518	
4.0	B		↑						
			TW7004	12.29	81	30.85	4,057	2,941	
4.5	B		↑						
			TW7005	12.20	89	33.81	4,418	3,316	
5.0									
6.0									
									Ave. 2,658

Auger No.: TW71

Coordinates: N= 4698.32, E= 1520.00

Vegetation: plantation of oil palm

Slope: steep

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	RB	dark reddish brown lateritic soil	TW7101	1.0	3.85	522	52.96	9,857	9,682
1.0	RB		†	1.0					
1.0	RB		†	1.0					
2.0	RB	dark brown lateritic soil with weathered ultrabasic rock pebbles	TW7102	2.0	3.05	833	48.96	9,088	10,671
2.0	RB		†	2.0					
3.0	RB		TW7103	3.0	3.05	935	55.28	11,225	11,868
3.0	RB		†	3.0					
4.0	DB		TW7104	4.0	2.95	1,088	57.42	12,336	15,161
4.0	DB		†	4.0					
5.0	DB		TW7105	5.0	3.35	1,231	58.23	12,848	13,471
5.0	DB		†	5.0					
5.8	DB	boulders	TW7106	5.8	3.56	1,468	51.84	12,449	15,795
6.0	DB		†	5.8					
									Ave. 12,775

Auger No.: TW72

Coordinates: N= 4698.23, E= 1519.79

Vegetation: plantation of oil palm

Slope: flat

Depth (m)	Column	Description	Sample No.	Depth (m)	Analytical Results				
					Al (%)	Co (ppm)	Fe (%)	Cr (ppm)	Ni (ppm)
1.0	B	brown lateritic soil	TW201	1.0	1.04	915	46.92	7,080	10,838
1.0	B		†	1.0					
2.0	B		TW202	2.0	10.72	301	33.41	7,927	3,153
2.0	B		†	2.0					
2.3	RB	slightly reddish, brown lateritic soil	TW203	2.3	12.92	24	14.14	2,116	576
2.3	RB		†	2.3					
2.8	RB	reddish to purplish grey, strongly weathered ultrabasic rock (sapprolite)	TW204	2.8	10.74	48	12.56	423	307
2.8	RB		†	2.8					
4.0	RB		TW205	4.0	11.58	21	13.03	330	313
4.0	RB		†	4.0					
4.5	bed rock	bed rock	†	4.5					Ave. 3,039
5.0									
6.0									

Appendix 2

List of rock geochemical samples in S. Imbak Sub-area

Area: Sungai Imbak

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
1	SM001	4679.30	1455.78	Sungai Imbak	Mudstone	N2Tj	-	dark gray
2	SM002	4679.73	1455.70	Sungai Imbak	Mudstone	N2Tj	-	dark gray
3	SM003	4679.98	1455.54	Sungai Imbak	Mudstone	N2Tj	-	dark gray
4	SM004	4679.39	1455.56	Sungai Imbak	Sandstone	N2Tj	-	weathered
5	SM005	4680.02	1455.33	Sungai Imbak	Sandstone	N2Tj	-	dark gray
6	SM006	4680.22	1455.60	Sungai Imbak	Mudstone	N2Tj	slightly silicified	dark gray
7	SM007	4680.36	1455.43	Sungai Imbak	Mudstone	N2Tj	weak Py-diss., silicified	dark gray
8	SM008	4680.81	1455.51	Sungai Imbak	Mudstone	N2Tj	-	dark gray
9	SM009	4680.87	1455.16	Sungai Imbak	Mudstone	N2Tj	-	gray
10	SM010	4680.56	1455.04	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
11	SM011	4681.30	1455.28	Sungai Imbak	Mudstone	N2Tj	-	dark gray
12	SM012	4681.71	1455.39	Sungai Imbak	Mudstone	N2Tj	-	gray, joint
13	SM013	4682.37	1454.21	Sungai Imbak	Mudstone	N2Tj	-	dark gray
14	SM014	4681.38	1455.11	Sungai Imbak	Mudstone	N2Tj	-	gray
15	SM015	4681.75	1455.26	Sungai Imbak	Sandstone	N2Tj	-	gray
16	SM016	4682.49	1455.55	Sungai Imbak	Mudstone	N2Tj	-	dark gray
17	SM017	4682.26	1455.35	Sungai Imbak	Mudstone	N2Tj	-	dark gray
18	SM018	4682.15	1455.07	Sungai Imbak	Mudstone	N2Tj	-	dark gray
19	SM019	4682.72	1455.60	Sungai Imbak	Mudstone	N2Tj	-	dark gray
20	SM020	4682.64	1455.11	Sungai Imbak	Mudstone	N2Tj	-	dark gray

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
21	SM021	4682.92	1455.08	Sungai Imbak	Mudstone	N2Tj	-	dark gray
22	SM022	4683.06	1455.69	Sungai Imbak	Mudstone	N2Tj	-	dark gray
23	SM023	4683.00	1455.49	Sungai Imbak	Mudstone	N2Tj	-	dark gray
24	SM024	4683.40	1455.32	Sungai Imbak	Sandstone	N2Tj	-	gray
25	SM025	4683.17	1455.04	Sungai Imbak	Mudstone	N2Tj	-	dark gray
26	SM026	4683.87	1455.12	Sungai Imbak	Sandstone	N2Tj	Qtz veinlet, wd. 0.1-0.5mm	gray
27	SM027	4684.11	1455.46	Sungai Imbak	Mudstone	N2Tj	-	dark gray
28	SM028	4684.43	1455.60	Sungai Imbak	Mudstone	N2Tj	-	dark gray
29	SM029	4684.99	1455.88	Sungai Imbak	Mudstone	N2Tj	rusty surface	dark gray
30	SM030	4684.75	1455.53	Sungai Imbak	Mudstone	N2Tj	-	dark gray
31	SM031	4684.80	1455.24	Sungai Imbak	Mudstone	N2Tj	-	dark gray
32	SM032	4685.17	1455.49	Sungai Imbak	Mudstone	N2Tj	-	dark gray
33	SM033	4685.27	1455.03	Sungai Imbak	Mudstone	N2Tj	-	dark gray
34	SM034	4685.29	1455.37	Sungai Imbak	Mudstone	N2Tj	-	dark gray
35	SM035	4685.51	1455.72	Sungai Imbak	Mudstone	N2Tj	-	dark gray
36	SM036	4685.79	1455.78	Sungai Imbak	Mudstone	N2Tj	-	dark gray
37	SM037	4679.85	1454.59	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
38	SM038	4679.73	1454.32	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
39	SM039	4679.71	1454.19	Sungai Imbak	Mudstone	N2Tj	-	gray
40	SM040	4680.07	1454.46	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained

Area: Sungai Imbak

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
41	SM041	4680.43	1454.53	Sungai Imbak	Mudstone	N2Tj	-	gray
42	SM042	4680.69	1454.65	Sungai Imbak	Mudstone	N2Tj	-	gray
43	SM043	4680.91	1454.77	Sungai Imbak	Mudstone	N2Tj	-	dark gray
44	SM044	4680.79	1454.73	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
45	SM045	4680.57	1454.48	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
46	SM046	4680.35	1454.25	Sungai Imbak	Mudstone	N2Tj	-	dark gray
47	SM047	4680.11	1454.04	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
48	SM048	4680.63	1454.06	Sungai Imbak	Mudstone	N2Tj	-	gray
49	SM049	4680.85	1454.10	Sungai Imbak	Mudstone	N2Tj	-	gray
50	SM050	4681.08	1454.77	Sungai Imbak	Mudstone	N2Tj	-	dark gray
51	SM051	4681.19	1454.73	Sungai Imbak	Mudstone	N2Tj	-	gray
52	SM052	4680.99	1454.17	Sungai Imbak	Mudstone	N2Tj	-	gray
53	SM053	4681.23	1454.32	Sungai Imbak	Mudstone	N2Tj	-	gray
54	SM054	4681.50	1454.62	Sungai Imbak	Mudstone	N2Tj	-	gray
55	SM055	4681.67	1455.03	Sungai Imbak	Mudstone	N2Tj	-	gray
56	SM056	4679.99	1453.72	Sungai Imbak	Sandstone	N2Tj	weak Py-diss.	gray, massive
57	SM057	4681.48	1454.23	Sungai Imbak	Sandstone	N2Tj	-	gray
58	SM058	4681.37	1454.03	Sungai Imbak	Mudstone	N2Tj	-	gray
59	SM059	4681.78	1454.03	Sungai Imbak	Diorite Porphyry	II	argillized	gray, massive
60	SM060	4681.78	1454.24	Sungai Imbak	Diorite Porphyry	II	argillized	gray, massive

Area: Sungai Imbak

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
61	SM061	4682.10	1454.92	Sungai Imbak	Diorite Porphyry	I1	argillized	white
62	SM062	4682.07	1454.54	Sungai Imbak	Mudstone	N2Tj	-	dark gray
63	SM063	4682.06	1454.11	Sungai Imbak	Sandstone	N2Tj	silicified	white - light gray
64	SM064	4682.38	1453.88	Sungai Imbak	Mudstone	N2Tj	-	dark gray
65	SM065	4682.41	1453.48	Sungai Imbak	Mudstone	N2Tj	silicified	dark gray
66	SM066	4682.62	1454.92	Sungai Imbak	Mudstone	N2Tj	-	dark gray
67	SM067	4682.76	1454.59	Sungai Imbak	Mudstone	N2Tj	-	dark gray
68	SM068	4682.65	1454.37	Sungai Imbak	Mudstone	N2Tj	-	dark gray
69	SM069	4682.76	1454.23	Sungai Imbak	Mudstone	N2Tj	-	dark gray
70	SM070	4682.42	1454.07	Sungai Imbak	Sandstone	N2Tj	-	light gray
71	SM071	4683.13	1454.88	Sungai Imbak	Mudstone	N2Tj	-	gray
72	SM072	4683.24	1454.66	Sungai Imbak	Mudstone	N2Tj	-	dark gray
73	SM073	4683.12	1454.08	Sungai Imbak	Mudstone	N2Tj	-	dark gray
74	SM074	4683.34	1454.22	Sungai Imbak	Mudstone	N2Tj	-	dark gray
75	SM075	4683.39	1454.87	Sungai Imbak	Mudstone	N2Tj	-	dark gray
76	SM076	4683.51	1454.53	Sungai Imbak	Mudstone	N2Tj	-	dark gray
77	SM077	4683.45	1453.99	Sungai Imbak	Mudstone	N2Tj	slightly rusty surface	dark gray, cataclastic
78	SM078	4683.74	1454.68	Sungai Imbak	Mudstone	N2Tj	-	dark gray
79	SM079	4683.92	1454.91	Sungai Imbak	Sandstone	N2Tj	slightly silicified	gray, joint
80	SM080	4683.86	1454.37	Sungai Imbak	Mudstone	N2Tj	-	dark gray

Area: Sungai Imbak

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
81	SM081	4683.99	1454.62	Sungai Imbak	Mudstone	N2Tj	-	dark gray
82	SM082	4684.21	1454.12	Sungai Imbak	Diorite Porphyry	I1	-	gray, massive
83	SM083	4684.48	1454.81	Sungai Imbak	Mudstone	N2Tj	-	dark gray
84	SM084	4684.57	1454.45	Sungai Imbak	Mudstone	N2Tj	-	dark gray
85	SM085	4684.83	1454.20	Sungai Imbak	Diorite Porphyry	I1	-	gray, massive
86	SM086	4685.18	1454.45	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
87	SM087	4685.33	1454.93	Sungai Imbak	Mudstone	N2Tj	-	dark gray
88	SM088	4685.46	1454.70	Sungai Imbak	Mudstone	N2Tj	-	dark gray
89	SM089	4685.96	1454.47	Sungai Imbak	Sandstone	N2Tj	-	gray
90	SM090	4685.83	1454.35	Sungai Imbak	Sandstone	N2Tj	-	gray
91	SM091	4679.13	1453.62	Sungai Imbak	Mudstone	N2Tj	-	gray
92	SM092	4679.33	1453.84	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
93	SM093	4679.07	1453.50	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
94	SM094	4679.78	1453.94	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
95	SM095	4679.56	1453.63	Sungai Imbak	Sandstone	N2Tj	-	gray
96	SM096	4679.48	1453.45	Sungai Imbak	Sandstone	N2Tj	-	gray
97	SM097	4679.35	1453.35	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
98	SM098	4679.74	1453.63	Sungai Imbak	Sandstone	N2Tj	-	gray
99	SM099	4679.87	1453.24	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
100	SM100	4679.72	1453.11	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
101	SM101	4680.17	1453.88	Sungai Imbak	Sandstone	N2Tj	-	light gray, fine grained
102	SM102	4680.15	1453.49	Sungai Imbak	Sandstone	N2Tj	-	gray, fine rained
103	SM103	4680.47	1453.65	Sungai Imbak	Diorite Porphyry	I1	-	gray, massive
104	SM104	4680.73	1453.79	Sungai Imbak	Mudstone	N2Tj	-	gray
105	SM105	4681.02	1453.94	Sungai Imbak	Diorite Porphyry	I1	-	gray, massive
106	SM106	4680.44	1453.40	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
107	SM107	4680.77	1453.47	Sungai Imbak	Sandstone	N2Tj	-	dark gray, fine grained
108	SM108	4680.26	1453.17	Sungai Imbak	Mudstone	N2Tj	-	gray
109	SM109	4680.58	1453.02	Sungai Imbak	Sandstone	N2Tj	rusty surface	gray, fine grained
110	SM110	4680.81	1452.82	Sungai Imbak	Mudstone	N2Tj	-	dark gray
111	SM111	4681.02	1453.77	Sungai Imbak	Mudstone	N2Tj	-	black
112	SM112	4681.64	1453.40	Sungai Imbak	Sandstone	N2Tj	silicified	light gray - white
113	SM113	4681.44	1453.86	Sungai Imbak	Mudstone	N2Tj	-	gray
114	SM114	4681.23	1453.02	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
115	SM115	4681.44	1453.24	Sungai Imbak	Mudstone	N2Tj	-	dark gray
116	SM116	4681.66	1453.87	Sungai Imbak	Mudstone	N2Tj	-	gray
117	SM117	4681.66	1453.66	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
118	SM118	4681.60	1453.17	Sungai Imbak	Mudstone	N2Tj	-	dark gray, massive
119	SM119	4681.78	1453.64	Sungai Imbak	Mudstone	N2Tj	-	ark gray, cataclastic
120	SM120	4681.78	1453.18	Sungai Imbak	Sandstone	N2Tj	-	light brown, massive

Area: Sungai Imbak

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
121	SM121	4682.11	1453.37	Sungai Imbak	Mudstone	N2Tj	-	dark gray
122	SM122	4682.08	1453.90	Sungai Imbak	Mudstone	N2Tj	-	dark gray
123	SM123	4682.49	1453.63	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray
124	SM124	4682.47	1452.59	Sungai Imbak	Mudstone	N2Tj	argillized	white
125	SM125	4682.55	1453.89	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray, cataclastic
126	SM126	4682.54	1453.38	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray, cataclastic
127	SM127	4682.33	1453.11	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray, cataclastic
128	SM128	4682.68	1453.92	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
129	SM129	4682.67	1453.70	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray, cataclastic
130	SM130	4682.67	1453.33	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray, cataclastic
131	SM131	4682.99	1453.67	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
132	SM132	4683.31	1453.77	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray
133	SM133	4683.27	1453.43	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray
134	SM134	4683.25	1453.21	Sungai Imbak	Diorite Porphyry	I1	weak Py-diss.	gray, Pl., Hbl. phenocryst
135	SM135	4683.61	1453.63	Sungai Imbak	Mudstone	N2Tj	-	dark gray
136	SM136	4683.59	1453.37	Sungai Imbak	Mudstone	N2Tj	-	dark gray
137	SM137	4683.56	1453.03	Sungai Imbak	Diorite Porphyry	I1	-	gray
138	SM138	4683.75	1453.62	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
139	SM139	4683.85	1453.40	Sungai Imbak	Mudstone	N2Tj	-	dark gray
140	SM140	4683.69	1453.02	Sungai Imbak	Diorite Porphyry	I1	weak Py-diss. or spot, silicified	gray, Pl., Hbl. phenocryst

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
141	SM141	4684.06	1453.90	Sungai Imbak	Diorite Porphyry	II	-	gray
142	SM142	4683.99	1453.65	Sungai Imbak	Mudstone	N2Tj	-	dark gray
143	SM143	4684.36	1453.88	Sungai Imbak	Diorite Porphyry	II	chloritized	gray
144	SM144	4684.53	1453.92	Sungai Imbak	Diorite Porphyry	II	-	gray
145	SM145	4684.79	1453.87	Sungai Imbak	Diorite Porphyry	II	-	gray
146	SM146	4684.71	1453.67	Sungai Imbak	Mudstone	N2Tj	-	dark gray
147	SM147	4684.60	1453.46	Sungai Imbak	Mudstone	N2Tj	-	dark gray
148	SM148	4684.34	1453.37	Sungai Imbak	Mudstone	N2Tj	-	dark gray
149	SM149	4681.77	1452.85	Sungai Imbak	Sandstone	N2Tj	Qtz. veinlet, wd. 0.1-0.5mm	white - light brown, massive
150	SM150	4685.52	1453.95	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
151	SM151	4685.08	1453.90	Sungai Imbak	Mudstone	N2Tj	-	dark gray, fine grained
152	SM152	4685.29	1453.67	Sungai Imbak	Sandstone	N2Tj	-	dark gray, fine grained
153	SM153	4685.33	1453.40	Sungai Imbak	Mudstone	N2Tj	-	dark gray
154	SM154	4685.38	1453.05	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
155	SM155	4685.86	1453.31	Sungai Imbak	Mudstone	N2Tj	-	dark gray
156	SM156	4680.57	1452.82	Sungai Imbak	Mudstone	N2Tj	-	dark gray
157	SM157	4680.48	1452.69	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
158	SM158	4680.94	1452.61	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
159	SM159	4680.89	1452.43	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
160	SM160	4681.03	1452.82	Sungai Imbak	Mudstone	N2Tj	silicified	dark gray

Area: Sungai Imbak

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
161	SM161	4681.11	1452.47	Sungai Imbak	Sandstone	I1	-	gray, fine grained
162	SM162	4681.08	1452.18	Sungai Imbak	Mudstone	N2Tj	-	dark gray
163	SM163	4681.46	1452.74	Sungai Imbak	Sandstone	N2Tj	weakly silicified	gray, massive
164	SM164	4681.28	1452.03	Sungai Imbak	Mudstone	N2Tj	Py-diss.	dark gray, massive
165	SM165	4681.53	1452.91	Sungai Imbak	Sandstone	N2Tj	weakly silicified	gray
166	SM166	4681.51	1452.58	Sungai Imbak	Diorite Porphyry	I1	argillized, Py-diss.	gray
167	SM167	4681.54	1452.06	Sungai Imbak	Mudstone	N2Tj	Py-diss.	dark gray
168	SM168	4681.78	1452.63	Sungai Imbak	Sandstone	N2Tj	silicified	white - light brown, massive
169	SM169	4682.11	1452.39	Sungai Imbak	Sandstone	N2Tj	silicified, weak Py-diss.	gray
170	SM170	4682.35	1452.79	Sungai Imbak	Diorite Porphyry	I1	argillized	light gray
171	SM171	4682.33	1452.64	Sungai Imbak	Sandstone	N2Tj	-	light gray
172	SM172	4682.37	1452.50	Sungai Imbak	Sandstone	N2Tj	silicified	light gray
173	SM173	4682.19	1452.95	Sungai Imbak	Sandstone	N2Tj	silicified	white - light gray
174	SM174	4682.58	1452.66	Sungai Imbak	Mudstone	N2Tj	silicified, weak Py-diss.	dark gray
175	SM176	4682.72	1452.41	Sungai Imbak	Sandstone	N2Tj	silicified, weak Py-diss.	gray
176	SM177	4682.92	1452.13	Sungai Imbak	Sandstone	N2Tj	silicified, Py-diss.	gray, massive
177	SM178	4683.26	1452.94	Sungai Imbak	Mudstone	N2Tj	weak Py-diss.	dark gray
178	SM179	4683.49	1452.55	Sungai Imbak	Diorite Porphyry	I1	weak Py-diss.	gray, massive
179	SM180	4683.63	1452.87	Sungai Imbak	Mudstone	N2Tj	silicified, argillized, Py-diss.	dark gray

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
		N	E					
180	SM181	4683.72	1452.71	Sungai Imbak	Sandstone	N2Tj	silicified, weak Py-diss.	gray
181	SM182	4682.98	1453.92	Sungai Imbak	Mudstone	N2Tj	-	gray, slightly cataclastic
182	SM183	4682.12	1453.59	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
183	SM184	4682.09	1452.26	Sungai Imbak	Sandstone	N2Tj	silicified, Py-diss.	gray, massive
184	SM185	4682.07	1452.11	Sungai Imbak	Sandstone	N2Tj	Py. veinlet, 1-2mm	gray, massive
185	SM186	4681.54	1452.32	Sungai Imbak	Sandstone	N2Tj	weakly silicified	gray, massive
186	SM187	4682.98	1453.41	Sungai Imbak	Mudstone	N2Tj	-	gray
187	SM188	4682.99	1453.24	Sungai Imbak	Sandstone	N2Tj	-	gray - light gray
188	SM189	4681.22	1454.16	Sungai Imbak	Mudstone	N2Tj	-	dark gray
189	SM190	4681.99	1452.24	Sungai Imbak	Mudstone	N2Tj	silicified, argillized	gray
190	SM191	4685.65	1453.24	Sungai Imbak	Mudstone	N2Tj	-	dark gray, cataclastic
191	SM192	4680.37	1454.76	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
192	SM193	4681.17	1452.76	Sungai Imbak	Mudstone	N2Tj	silicified	dark gray
193	SM194	4680.42	1453.94	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
194	SM195	4680.60	1453.20	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
195	SM196	4679.55	1453.96	Sungai Imbak	Sandstone	N2Tj	-	gray, fine grained
196	SM197	4681.38	1452.55	Sungai Imbak	Mudstone	N2Tj	-	dark gray
197	SM198	4682.70	1455.82	Sungai Imbak	Mudstone	N2Tj	-	dark gray
198	SM199	4680.92	1453.32	Sungai Imbak	Mudstone	N2Tj	-	dark gray
199	SM200	4684.23	1454.47	Sungai Imbak	Mudstone	N2Tj	-	dark gray

Area: Sungai Imbak

Ser. No.	Sample No.		Coordinates		1/50,000 Topo. Sheet	Rock Name	Geol. Unit	Alteration/Mineralization	Description
	N	E	N	E					
200	SW201	4682.09	1453.13		Sungai Imbak	Sandstone	N2Tj	silicified, weak Py-diss.	dark gray
201	SW202	4682.08	1452.82		Sungai Imbak	Sandstone	N2Tj	silicified, weak Py-diss.	gray

Appendix 3

Analytical results of rock geochemical samples in S. Imbak Sub-area

List of Geochemical Analysis (1)

Ser. No.	Sample No.	Location (km)	Ag ppm	As ppm	Au ppb	Ca %	Cu ppm	Hg ppb	K %	Mg %	Na %	Pb ppm	Rb ppm	S %	Sb ppm	Sr ppm	Zn ppm
1	SM001	4679.297 1455.780	.57	11	1	.12	15	10	.63	.72	1.23	14	52	.117	4.5	82	98
2	SM002	4679.726 1455.695	.62	1	1	.33	11	10	.64	.55	1.02	13	55	.098	2.6	66	59
3	SM003	4679.983 1455.541	.50	7	1	.08	12	10	.72	.52	1.15	10	56	.252	2.3	68	56
4	SM004	4679.392 1455.560	.53	13	1	.01	10	35	.67	.25	.06	18	60	.020	3.1	34	39
5	SM005	4680.025 1455.326	.72	33	1	.05	23	15	.99	.55	1.13	23	88	.041	4.7	82	50
6	SM006	4680.216 1455.598	.68	2	1	.18	14	22	.73	.60	1.01	22	64	.218	2.2	67	55
7	SM007	4680.361 1455.433	.55	9	1	.16	13	12	.69	.55	.97	14	59	.184	5.9	65	51
8	SM008	4680.811 1455.515	.56	18	1	1.34	18	37	.77	.97	.99	27	69	.557	4.4	85	72
9	SM009	4680.870 1455.162	.43	9	1	.18	29	31	1.17	1.21	1.04	32	109	.553	6.0	87	95
10	SM010	4680.559 1455.037	.48	6	1	.03	12	10	.54	.33	.94	8	44	.040	1.5	56	41
11	SM011	4681.296 1455.276	.50	2	1	.29	24	26	1.18	1.24	1.09	15	108	.347	2.2	85	86
12	SM012	4681.713 1455.388	.40	1	1	.06	14	10	.63	.53	1.06	11	55	.092	5.8	55	58
13	SM013	4682.374 1454.209	.37	9	1	.06	30	33	1.21	.82	1.21	25	114	.332	5.1	62	102
14	SM014	4681.381 1455.107	.32	19	1	.09	32	37	1.23	1.12	1.01	29	121	.827	7.4	82	99
15	SM015	4681.748 1455.262	.57	5	1	.19	13	10	.66	.57	.98	13	61	.379	5.8	54	60
16	SM016	4682.489 1455.549	.45	9	1	.05	29	24	1.06	.93	1.12	31	99	.401	2.3	77	113
17	SM017	4682.263 1455.349	.44	13	1	.02	31	25	1.10	.79	1.05	25	101	.473	4.0	78	146
18	SM018	4682.146 1455.069	.29	16	1	.05	35	43	1.34	1.34	.86	33	138	1.106	2.3	77	122
19	SM019	4682.723 1455.596	.32	21	1	.26	25	40	1.42	1.48	.85	30	138	.420	2.3	84	110
20	SM020	4682.636 1455.113	.48	2	1	.09	34	62	1.40	.96	1.01	34	146	.583	3.4	79	116
21	SM021	4682.923 1455.082	.64	130	1	.01	16	10	1.53	.25	.23	23	187	.055	6.8	23	18
22	SM022	4683.063 1455.691	.43	19	1	.31	24	33	1.23	1.48	.75	23	127	.158	7.3	86	116
23	SM023	4682.998 1455.487	.33	6	1	.05	12	16	.44	.57	.73	13	42	.083	5.0	46	61
24	SM024	4683.403 1455.324	.40	12	1	.85	9	10	.24	.49	.53	10	20	1.163	2.7	36	43
25	SM025	4683.169 1455.040	.24	4	1	.02	26	23	1.26	1.47	.77	32	124	1.638	3.2	73	143
26	SM026	4683.867 1455.116	.43	32	3	.75	13	53	.49	.55	.75	18	44	.376	4.6	56	69
27	SM027	4684.108 1455.460	.28	2	1	.31	28	24	1.32	1.46	.79	25	118	1.163	5.8	80	117
28	SM028	4684.433 1455.598	.32	6	1	.20	25	34	1.26	1.35	.83	21	123	.126	5.7	79	107
29	SM029	4684.991 1455.880	.34	11	1	.17	23	34	1.28	1.23	.75	24	128	.278	1.5	79	101
30	SM030	4684.751 1455.531	.30	10	1	.16	27	30	1.36	1.35	.73	21	141	.296	6.1	78	120
31	SM031	4684.803 1455.241	.43	19	1	.08	27	35	1.25	1.13	.84	23	135	.318	6.0	74	115
32	SM032	4685.172 1455.494	.51	1	1	.28	19	338	1.17	.95	.77	20	121	.144	4.3	127	79
33	SM033	4685.273 1455.030	.33	8	1	.05	25	33	.76	.89	.76	31	81	.306	5.4	81	97
34	SM034	4685.290 1455.368	.27	29	1	.31	23	99	1.16	1.24	.63	27	134	.207	3.7	95	85
35	SM035	4685.512 1455.722	.27	9	1	.28	36	24	.97	1.15	.66	41	98	.089	5.7	122	136
36	SM036	4685.788 1455.779	.22	23	1	.18	14	22	1.01	.90	.34	33	104	.019	1.4	113	76
37	SM037	4679.852 1454.589	.36	3	1	.17	23	24	.59	1.03	.98	22	57	.327	3.7	86	85
38	SM038	4679.730 1454.322	.46	2	1	.07	11	11	.34	.48	.85	13	30	.065	5.4	59	48
39	SM039	4679.709 1454.189	.31	20	1	.16	22	17	.51	.62	.99	19	50	.246	3.6	88	82
40	SM040	4680.075 1454.465	.41	9	1	.25	36	61	1.05	1.03	.88	22	120	.984	5.1	85	111
41	SM041	4680.426 1454.534	.46	12	1	.07	36	28	1.05	.86	.86	28	120	.595	2.2	80	174
42	SM042	4680.692 1454.654	.40	20	1	.06	29	120	1.05	.86	.86	28	120	.595	2.2	80	174
43	SM043	4680.914 1454.766	.28	10	1	.18	24	28	.49	.98	.95	23	50	.616	4.4	88	84
44	SM044	4680.793 1454.726	.50	1	1	.23	15	10	.66	.85	.85	15	73	.197	3.0	71	63
45	SM045	4680.574 1454.480	.46	9	1	.13	11	10	.74	.59	.85	13	39	.045	7.1	65	48
46	SM046	4680.353 1454.252	.48	19	1	.15	30	51	1.30	.67	.67	28	81	.589	8.5	91	110
47	SM047	4680.113 1454.036	.40	8	1	.20	18	11	.44	.91	.91	15	43	.214	1.8	80	69
48	SM048	4680.627 1454.062	.26	23	1	.20	29	255	.94	1.17	.73	24	118	1.108	3.0	118	106
49	SM049	4680.846 1454.097	.35	22	1	.20	33	228	.80	1.32	.70	29	95	.882	4.9	99	101
50	SM050	4681.082 1454.766	.27	14	1	.20	30	46	.59	1.05	.91	32	66	.922	1.2	87	93

List of Geochemical Analysis (2)

Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	Ag ppm	As ppm	Au ppb	Ca %	Cu ppm	Hg ppb	K %	Mg %	Na %	Pb ppm	Rb ppm	S %	Sb ppm	Sr ppm	Zn ppm
51	SM051	4681.191	1454.725	.51	5	1	.27	25	23	.89	1.18	.95	17	105	.566	6.4	83	90	
52	SM052	4680.992	1454.169	.52	20	1	.14	25	97	1.15	.59	.87	28	143	.740	4.1	106	114	
53	SM053	4681.230	1454.924	.49	14	1	.20	26	46	1.11	.89	.81	27	130	.560	2.9	111	87	
54	SM054	4681.502	1454.616	.37	7	1	.22	20	31	.94	1.07	.87	21	108	.444	2.0	74	81	
55	SM055	4681.669	1455.031	.39	6	1	.24	23	24	1.13	1.04	.88	16	131	.524	5.3	56	85	
56	SM056	4679.987	1453.724	.47	14	1	.08	10	10	.52	.33	.81	11	52	.081	3.4	58	54	
57	SM057	4681.479	1454.233	.43	6	1	.69	10	10	.37	.76	.41	12	41	.138	4.3	68	53	
58	SM058	4681.368	1454.032	.41	24	1	.16	30	156	1.12	.99	.15	22	135	.635	6.3	97	85	
59	SM059	4681.776	1454.030	.45	4	1	2.26	10	42	.76	.31	2.01	26	54	.630	3.8	293	55	
60	SM060	4681.777	1454.242	.52	9	1	.25	10	16	1.09	.19	1.35	30	111	.012	.6	175	59	
61	SM061	4682.103	1454.921	.38	1	1	.74	2	10	.32	.30	4.20	26	14	.042	1.9	60	114	
62	SM062	4682.069	1454.538	.48	17	1	.03	40	40	1.05	.72	.73	30	126	.303	.2	77	120	
63	SM063	4682.065	1454.110	.43	9	1	.01	4	4	.06	.01	.01	3	2	.012	3.4	4	17	
64	SM064	4682.377	1453.882	.48	20	1	.08	28	24	1.06	.71	.93	21	115	.507	.5	58	141	
65	SM065	4682.411	1453.484	.35	127	15	.01	9	10	.76	.23	.12	16	130	.010	11.7	31	11	
66	SM066	4682.620	1454.924	.21	14	1	.29	26	10	.88	1.03	.84	23	97	.560	1.4	82	94	
67	SM067	4682.759	1454.586	.47	154	1	.01	13	10	.29	.04	.04	9	43	.013	4.0	5	11	
68	SM068	4682.650	1454.375	.56	10	1	.01	3	10	.11	.03	.03	11	6	.009	4.0	8	7	
69	SM069	4682.755	1454.228	16.53	68	47	.01	33	46	.47	.09	.07	15	68	.202	16.7	12	11	
70	SM070	4682.418	1454.071	.82	132	7	.02	10	14	.38	.54	.23	86	38	.012	12.5	19	10	
71	SM071	4683.193	1454.877	.74	20	1	.16	24	21	1.18	1.03	.74	25	95	.180	3.7	68	98	
72	SM072	4683.238	1454.662	1.27	135	21	.01	139	47	.43	.47	.04	16	48	3.895	11.8	8	34	
73	SM073	4683.118	1454.081	.48	18	1	.94	17	18	1.53	1.22	.83	20	108	.461	4.0	68	81	
74	SM074	4683.937	1454.216	.35	21	1	1.42	24	10	1.30	1.30	.68	24	117	.028	.2	69	100	
75	SM075	4683.397	1454.868	.53	4	1	.10	3	10	.36	.03	.02	12	38	.015	1.8	8	6	
76	SM076	4683.506	1454.525	.43	12	1	.10	24	37	1.24	.68	.65	23	110	.112	.2	70	55	
77	SM077	4683.449	1453.994	.28	12	1	.10	21	13	.83	1.01	.66	20	73	.022	.2	50	64	
78	SM078	4683.740	1454.683	.39	17	1	.26	20	50	1.39	1.24	.61	33	107	.262	.5	66	75	
79	SM079	4683.921	1454.509	.38	12	1	.07	5	18	.21	.23	.53	13	15	.266	1.8	24	24	
80	SM080	4683.856	1454.365	.36	21	1	.16	23	22	1.71	1.21	.68	26	110	.266	1.8	24	24	
81	SM081	4683.991	1454.619	.46	16	1	.36	18	50	1.24	1.14	.58	21	112	.303	3.5	65	99	
82	SM082	4684.209	1454.125	.32	1	1	4.53	81	10	.73	2.35	2.01	24	51	.054	7.9	507	68	
83	SM083	4684.478	1454.812	.45	4	1	.25	25	33	.68	1.48	.71	21	53	.240	.7	74	101	
84	SM084	4684.571	1454.453	.45	13	1	.18	25	25	1.35	1.36	.76	26	108	.210	3.3	73	106	
85	SM085	4684.827	1454.198	.39	39	2	4.12	81	81	1.45	2.36	2.35	25	52	.046	8.7	558	88	
86	SM086	4685.181	1454.454	.37	18	2	.08	25	54	1.45	.97	.83	27	128	.187	3.1	64	116	
87	SM087	4685.331	1454.927	.42	15	1	.08	30	24	1.60	1.12	.71	27	150	.406	.2	80	117	
88	SM088	4685.460	1454.702	.47	6	1	.18	21	633	1.90	1.01	.46	25	133	.189	1.2	79	90	
89	SM089	4685.961	1454.471	.48	5	1	.49	11	44	.79	.72	1.93	6	49	.034	4.0	72	38	
90	SM090	4685.826	1454.346	.43	1	1	.13	13	11	.68	1.14	1.38	13	42	.012	2.8	56	60	
91	SM091	4679.128	1453.624	.52	5	1	.15	22	30	.62	.76	.66	16	44	.356	.2	68	51	
92	SM092	4679.330	1453.840	.48	48	1	.07	10	10	1.0	.49	.29	16	36	.042	.8	62	36	
93	SM093	4679.065	1453.496	.76	4	1	.25	17	10	1.0	.99	.88	21	43	.416	.2	78	61	
94	SM094	4679.782	1453.942	.47	8	1	.07	16	10	.92	.55	1.12	17	63	.152	.2	78	58	
95	SM095	4679.565	1453.633	.66	15	1	.12	18	10	.74	.63	.92	17	56	.372	2.1	91	63	
96	SM096	4679.477	1453.452	.49	4	1	.15	18	29	.76	.77	.85	17	62	.182	.8	79	63	
97	SM097	4679.354	1453.354	.39	16	1	.10	20	51	1.03	.72	.81	14	88	.376	.2	74	67	
98	SM098	4679.735	1453.635	.44	6	1	.08	15	10	.48	.53	.70	13	34	.209	.6	80	51	
99	SM099	4679.872	1453.241	.44	6	1	.09	11	10	.68	.41	.66	12	48	.086	.2	63	41	
100	SM100	4679.719	1453.108	.48	18	1	.19	19	12	.99	.92	1.02	19	76	.272	.2	88	71	

List of Geochemical Analysis (3)

Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	Ag	As	Au	Ca	Cu	Hg	K	Mg	Na	Pb	Rb	S	Sb	Sr	Zn
					ppm	ppm	ppb	%	ppm	ppb	%	%	%	ppm	ppm	%	ppm	ppm	ppm
101	SM101	4680.170	1453.880		32	2	1	.01	7	94	.43	.08	.42	6	32	.018	>	78	26
102	SM102	4680.149	1453.495		.50	8	26	5.58	8	41	.43	.11	1.50	16	34	.021	2.3	43	30
103	SM103	4680.473	1453.647		.56	1	4	16	86	94	1.61	2.51	1.50	10	143	.088	4.9	525	81
104	SM104	4680.732	1453.795		.50	11	2	4.29	15	10	1.61	.52	2.67	10	71	.221	1.9	86	53
105	SM105	4681.019	1453.940		.75	7	1	.13	70	82	1.77	2.13	2.03	22	121	.062	7.9	476	86
106	SM106	4680.437	1453.398		.51	9	1	.09	12	10	.77	.46	1.02	6	52	.171	1.8	77	47
107	SM107	4680.769	1453.470		.43	8	1	.09	15	10	1.20	.44	1.03	16	90	.128	2.1	97	73
108	SM108	4680.263	1453.169		.46	1	1	.13	21	20	1.45	.72	1.20	16	106	.323	4.0	89	62
109	SM109	4680.583	1453.017		.47	4	1	.05	8	10	.45	.21	.52	10	38	.072	2	41	36
110	SM110	4680.806	1452.825		.47	17	1	.05	16	10	1.15	.36	.50	14	110	.160	19.3	45	60
111	SM111	4681.016	1453.769		.43	17	1	.24	19	71	1.06	.96	.42	7	102	.238	1.6	112	58
112	SM112	4681.644	1453.399		.31	33	1	.68	2	10	.59	.27	3.62	28	30	.025	3.4	138	127
113	SM113	4681.444	1453.858		.51	3	1	.29	25	99	1.40	.97	.72	24	119	.950	2.9	107	67
114	SM114	4681.229	1453.020		.46	13	1	.06	8	10	.70	.43	.68	15	70	.070	7.3	33	39
115	SM115	4681.442	1453.235		1.41	23	5	.27	27	10	1.88	.50	.65	25	217	1.083	17.4	39	93
116	SM116	4681.655	1453.875		.34	10	1	.35	15	37	1.83	1.06	.74	20	161	.631	3.4	110	74
117	SM117	4681.660	1453.655		.43	3	1	.08	16	10	.86	1.05	.98	19	69	.421	10.3	75	76
118	SM118	4681.595	1453.167		.56	19	1	.29	22	16	1.64	.76	1.08	19	149	.481	2.3	86	73
119	SM119	4681.785	1453.640		.34	3	1	.02	27	10	1.61	.98	.99	20	147	.481	2.3	41	32
120	SM120	4681.780	1453.184		.52	12	1	.02	9	24	.84	.24	.82	10	132	.456	2.9	40	59
121	SM121	4682.107	1453.372		.35	17	1	.05	21	10	1.40	.60	.67	10	132	.456	2.9	40	59
122	SM122	4682.077	1453.898		.31	9	1	.06	29	41	1.44	.80	.81	39	131	1.665	5.5	78	119
123	SM123	4682.489	1453.635		.23	29	1	.34	29	10	1.34	.92	2.63	36	201	.042	4.5	45	44
124	SM124	4682.465	1452.592		.44	52	6	.01	19	10	2.23	.39	1.17	27	44	3.011	7.8	78	107
125	SM125	4682.553	1453.891		.44	4	1	2.51	254	10	.66	2.46	.49	27	200	2.423	4.8	74	107
126	SM126	4682.539	1453.380		.45	12	1	.14	56	10	2.12	1.18	.88	21	200	2.423	4.8	74	107
127	SM127	4682.676	1453.106		1.23	16	1	.01	103	34	1.58	1.12	.83	17	152	.488	4.0	75	109
128	SM128	4682.676	1453.921		.30	10	1	.07	30	49	1.01	1.85	.09	13	9	6.502	9	11	78
129	SM129	4682.668	1453.700		.31	14	1	.07	92	150	1.23	1.52	.40	27	117	11.154	2.7	50	1001
130	SM130	4682.994	1453.668		1.19	209	2	.07	374	21	1.01	.55	.67	10	68	.278	1.6	46	50
131	SM131	4683.008	1453.770		.28	9	1	.05	8	10	.98	.50	.58	7	37	.030	5	36	59
132	SM132	4683.267	1453.431		.32	13	1	.35	124	10	.17	1.79	.19	14	12	.618	1.8	36	140
133	SM133	4683.248	1453.209		.40	12	2	2.51	74	10	1.61	.84	2.15	28	36	.038	7.3	441	84
134	SM134	4683.605	1453.631		.35	18	1	.01	33	41	1.15	.77	.57	22	134	.052	2	41	48
135	SM135	4683.589	1453.366		.39	5	1	.10	23	22	1.16	.82	.71	28	125	.139	3.5	50	89
136	SM136	4683.556	1453.031		.50	6	3	2.85	47	92	1.34	1.34	1.61	24	164	.037	6.2	449	85
137	SM137	4683.751	1453.618		.44	9	1	.04	26	75	1.34	.71	.25	23	121	.013	2	40	57
138	SM138	4683.846	1453.401		.46	15	1	.10	16	34	.79	.71	.71	15	92	.309	2	54	64
139	SM139	4683.693	1453.018		.56	33	1	.46	35	15	1.11	.80	1.24	171	55	.117	3.6	203	258
140	SM140	4684.061	1453.904		.23	1	1	4.79	118	10	3.78	2.26	3.00	22	150	.048	3.1	570	54
141	SM141	4684.356	1453.652		.30	1	1	.07	24	28	1.62	.55	.48	15	37	.014	3.0	37	77
142	SM142	4684.356	1453.875		.32	1	1	4.45	61	22	2.75	2.20	2.76	15	85	.047	5.5	530	55
143	SM143	4684.535	1453.925		.34	1	1	4.62	171	31	2.83	1.77	2.65	18	35	.050	2.6	514	76
144	SM144	4684.788	1453.871		.33	1	1	4.34	62	19	2.09	1.68	2.04	22	36	.043	9.6	466	54
145	SM145	4684.709	1453.667		.46	1	1	.10	32	19	1.25	.76	.50	19	27	.067	1.4	33	72
146	SM146	4684.601	1453.461		.28	6	1	.01	30	32	1.16	.60	.42	23	47	.045	2	25	75
147	SM147	4684.342	1453.369		.41	12	1	.01	34	22	1.74	.61	.47	36	43	.015	8.5	34	86
148	SM148	4681.774	1452.849		.34	263	27	.01	21	42	1.28	.15	.08	369	94	.014	10	10	19
149	SM149	4685.518	1453.954		.45	11	1	.24	33	70	1.96	1.10	.79	17	81	.189	1.9	73	91

List of Geochemical Analysis (4)

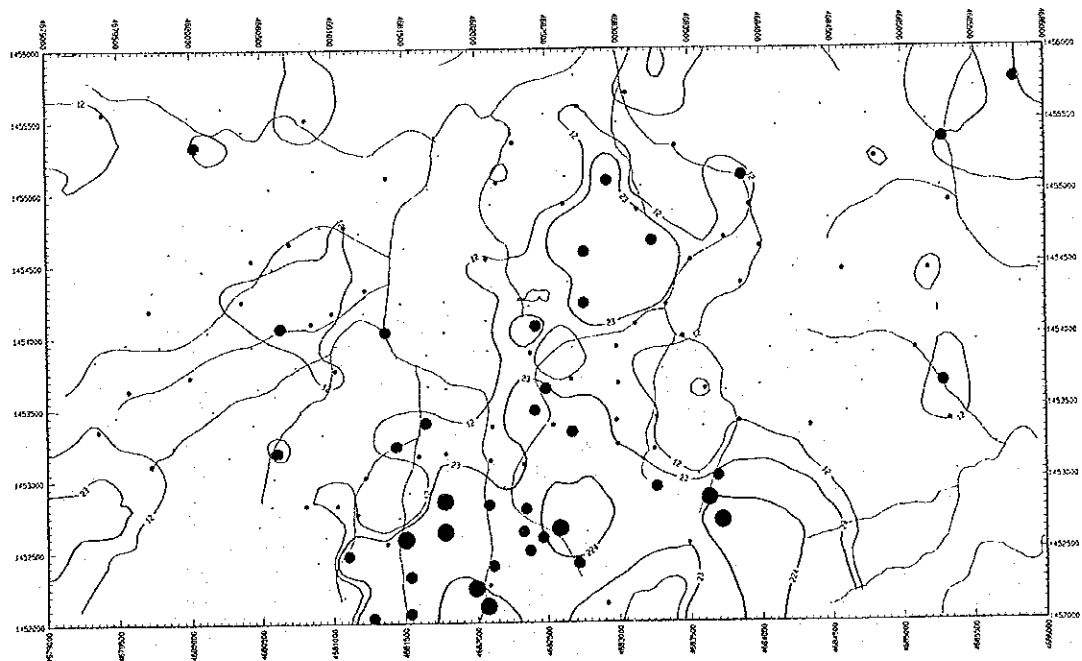
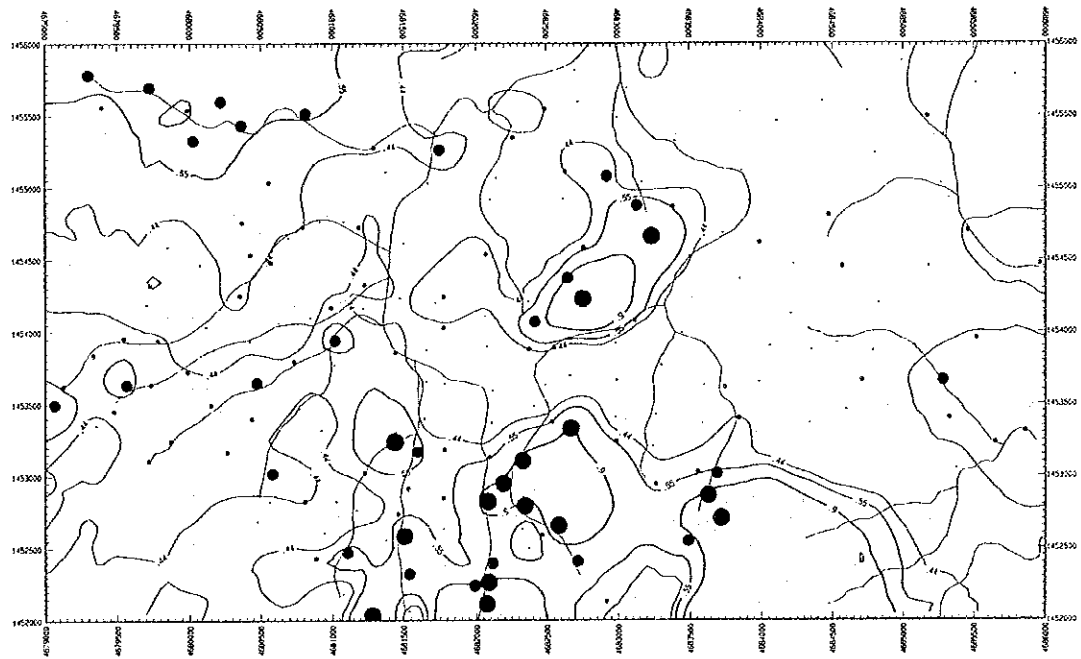
Ser. No.	Sample No.	Location (km)	Ag ppm	As ppm	Au ppb	Ca %	Cu ppm	Hg ppb	K %	Mg %	Na %	Pb ppm	Rb ppm	S %	Sb ppm	Sr ppm	Zn ppm
151	SM151	4685.084	1453.902	16	2	.07	28	37	2.52	1.23	.74	18	146	.124	.3	67	104
152	SM152	4685.286	1453.665	23	1	.29	9	130	.45	.27	.52	36	34	2.290	.7	30	39
153	SM153	4685.331	1453.403	18	1	.28	27	29	3.19	1.60	.95	31	160	.302	4.9	89	111
154	SM154	4685.379	1453.050	1	1	.22	25	26	2.70	1.41	.93	22	191	.184	2.2	79	110
155	SM155	4685.859	1453.313	2	1	.30	25	39	2.61	1.41	.79	20	207	.120	2.2	112	92
156	SM156	4680.565	1452.821	1	1	.19	21	30	1.82	1.03	1.28	24	143	.386	.4	94	73
157	SM157	4680.477	1452.687	1	1	.14	15	19	1.14	.61	.96	14	95	.204	2.2	71	52
158	SM158	4680.943	1452.605	1	1	.03	8	10	.56	.37	.82	10	39	.041	2.2	37	41
159	SM159	4680.885	1452.429	1	1	.04	13	16	1.07	.56	1.15	13	77	.083	2.2	64	57
160	SM160	4681.027	1452.824	21	1	.12	24	16	1.94	1.02	1.22	20	111	.206	1.1	53	79
161	SM161	4681.108	1452.469	184	3	.01	10	10	1.18	.16	.05	127	110	.180	1.8	29	35
162	SM162	4681.075	1452.182	35	1	.07	33	38	2.59	1.23	1.01	17	194	.826	2.2	54	104
163	SM163	4681.463	1452.737	2	1	.07	11	10	.97	.53	1.25	12	57	.192	1.2	53	41
164	SM164	4681.283	1452.035	98	1	.14	10	61	.73	.25	1.0	12	54	1.354	6.2	58	93
165	SM165	4681.552	1452.913	1	3	.16	10	15	1.25	.67	1.03	11	79	.363	6.7	112	47
166	SM166	4681.505	1452.583	563	19	.02	85	2289	4.21	.17	.23	19	319	5.562	2.2	188	17
167	SM167	4681.539	1452.064	37	41	.08	10	13	2.30	.96	1.35	23	163	1.843	2.7	64	60
168	SM168	4681.776	1452.635	263	16	.01	20	23	1.25	.09	.06	40	123	.034	5.9	12	29
169	SM169	4682.114	1452.394	64	30	.05	98	10	2.18	.23	.33	18	165	.616	2.2	31	28
170	SM170	4682.346	1452.794	88	1	.05	52	10	3.51	.28	2.00	87	228	.376	.9	88	399
171	SM171	4682.328	1452.635	111	6	.01	15	10	1.46	.18	.10	152	119	.022	9.6	18	17
172	SM172	4682.373	1452.502	87	1	.01	14	10	1.63	.16	.07	11	141	.015	.7	31	11
173	SM173	4682.191	1452.948	10	14	.01	11	17	.11	.01	.02	15	9	7.4	14	14	4
174	SM174	4682.584	1452.557	13675	4910	.01	505	210	1.33	.18	.03	22	148	3.944	59.9	48	61
175	SM175	4682.716	1452.410	166	49	.04	51	10	1.21	.30	.63	3	90	.512	2.2	28	93
176	SM176	4682.916	1452.130	14	169	.01	35	10	1.51	.38	.17	4	122	.391	2.2	16	24
177	SM177	4683.255	1452.944	37	2	.04	33	10	1.50	.71	1.06	10	107	.246	2.2	50	76
178	SM178	4683.486	1452.548	21	3	1.89	75	10	2.77	2.09	2.09	15	132	.030	4.4	330	167
179	SM180	4683.631	1452.865	459	262	.06	28	24	3.24	.50	.14	2250	208	.406	1.7	24	2950
180	SM181	4683.723	1452.706	1337	167	.01	76	77	1.04	.15	.09	5845	107	.973	2.1	10	819
181	SM182	4682.984	1453.923	12	1	.05	17	10	2.04	.85	1.54	22	122	.138	2.2	59	80
182	SM183	4682.118	1453.593	32	8	.29	22	28	2.21	1.08	1.04	15	136	.484	1.2	48	80
183	SM184	4682.088	1452.262	21	5	.02	71	13	1.95	.26	.09	31	159	.758	2.2	20	43
184	SM185	4682.074	1452.114	9773	6920	.01	57	816	2.88	.27	.09	51	249	1.892	17.2	26	195
185	SM186	4681.540	1452.321	27	4	.01	8	12	.71	.25	.72	22	48	.078	2.2	23	37
186	SM187	4682.983	1453.411	16	12	.01	23	24	2.13	.73	.77	4	140	.017	2.2	51	73
187	SM188	4682.989	1453.243	20	1	.57	15	12	1.43	.16	.08	9	95	.018	2.2	10	35
188	SM189	4681.220	1454.163	38	2	.01	26	161	2.18	1.17	.16	12	115	.228	2.2	74	73
189	SM190	4681.988	1452.239	657	18	.01	21	98	2.53	.16	.13	427	191	.020	5.7	18	29
190	SM191	4685.648	1453.235	8	3	.05	30	58	1.66	.59	1.31	28	75	.361	1.2	59	65
191	SM192	4680.367	1454.758	54	2	2.64	16	30	1.36	1.42	1.10	16	73	.129	4.6	76	53
192	SM193	4681.172	1452.763	18	1	.08	35	31	3.57	1.13	1.14	20	104	.411	1.4	47	109
193	SM194	4680.424	1453.937	10	1	.23	14	21	1.06	.45	1.08	14	32	.841	2.6	86	47
194	SM195	4680.504	1453.196	41	1	.01	16	57	1.20	.17	.06	6	49	.029	28.2	56	43
195	SM196	4679.546	1453.958	53	1	2.04	12	10	.78	.92	.87	12	36	.295	8.3	69	29
196	SM197	4681.378	1452.555	37	1	.03	17	21	1.81	.53	1.01	8	72	.141	1.6	60	49
197	SM198	4682.701	1455.815	30	3	.33	29	28	3.29	1.36	.92	13	99	.261	2.2	72	82
198	SM199	4680.923	1453.321	2	1	.12	19	50	2.07	.75	.39	15	88	.266	2.7	71	55
199	SM200	4684.228	1454.470	30	1	.18	25	82	3.09	1.34	.80	18	90	.089	2.2	58	82
200	SM201	4682.094	1453.132	14	1	.59	9	10	.45	.69	.80	14	48	.087	6.7	74	80

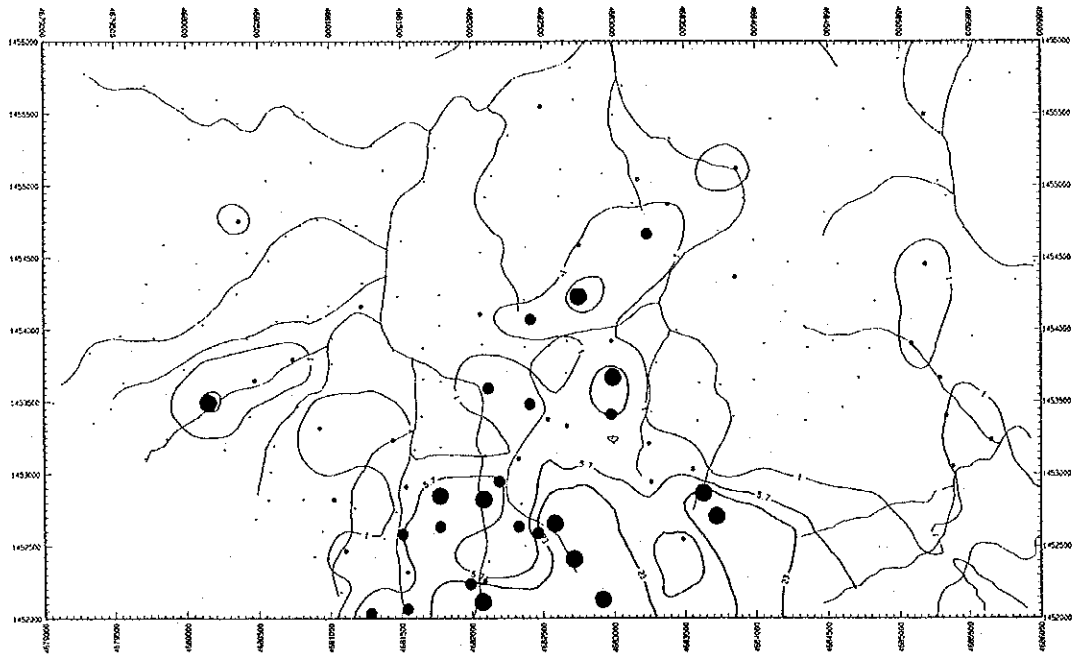
List of Geochemical Analysis (5)

Ser. No.	Sample No.	Location (km)		Ag	As	Au	Ca	Cu	Hg	K	Mg	Na	Pb	Rb	S	Sb	Sr	Zn
		X-coord	Y-coord															
201	SV202	4682.083	1452.823	1.34	100	35	.01>	40	34	1.18	.27	.06	336	153	.671	.25	.40	124

Appendix 4

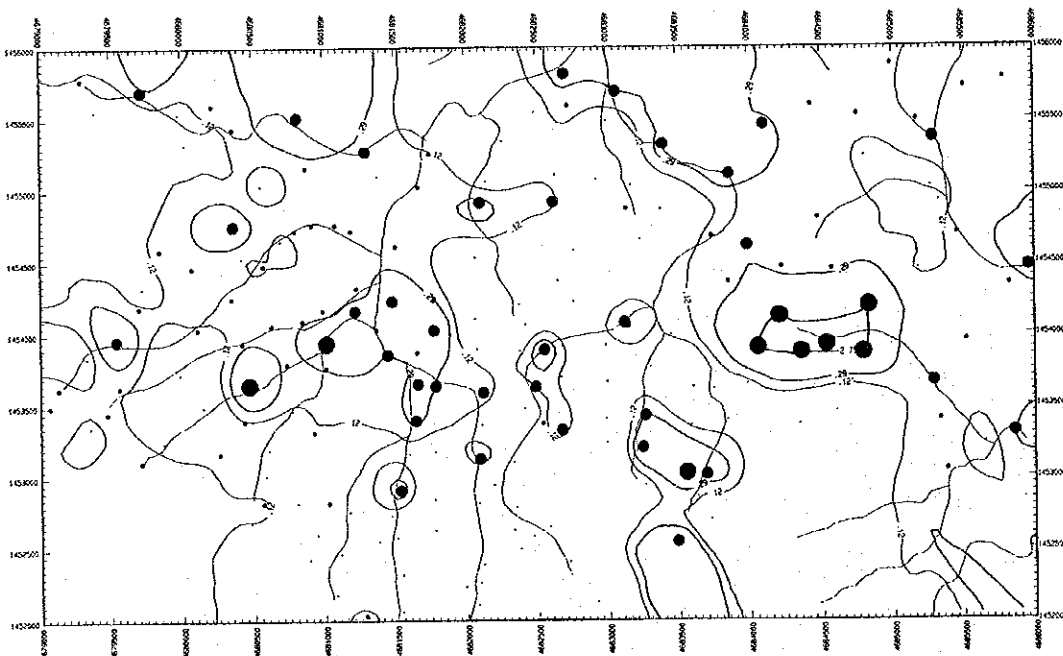
Distribution map of elements in S. Imbak Sub-area





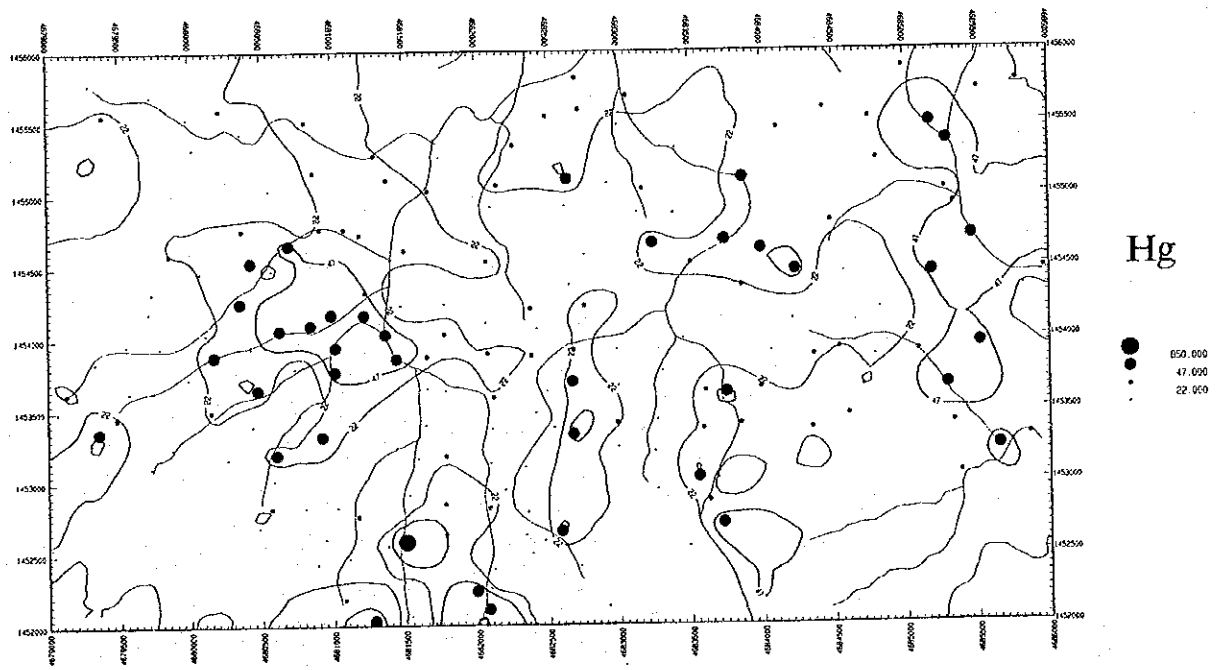
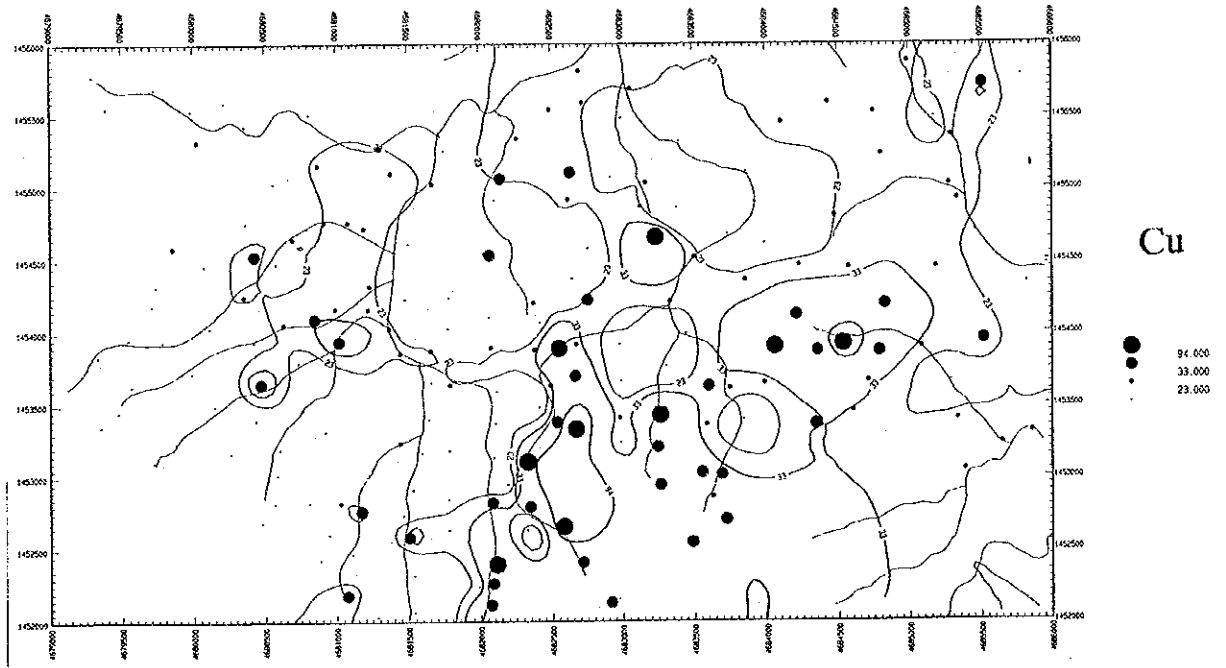
Au

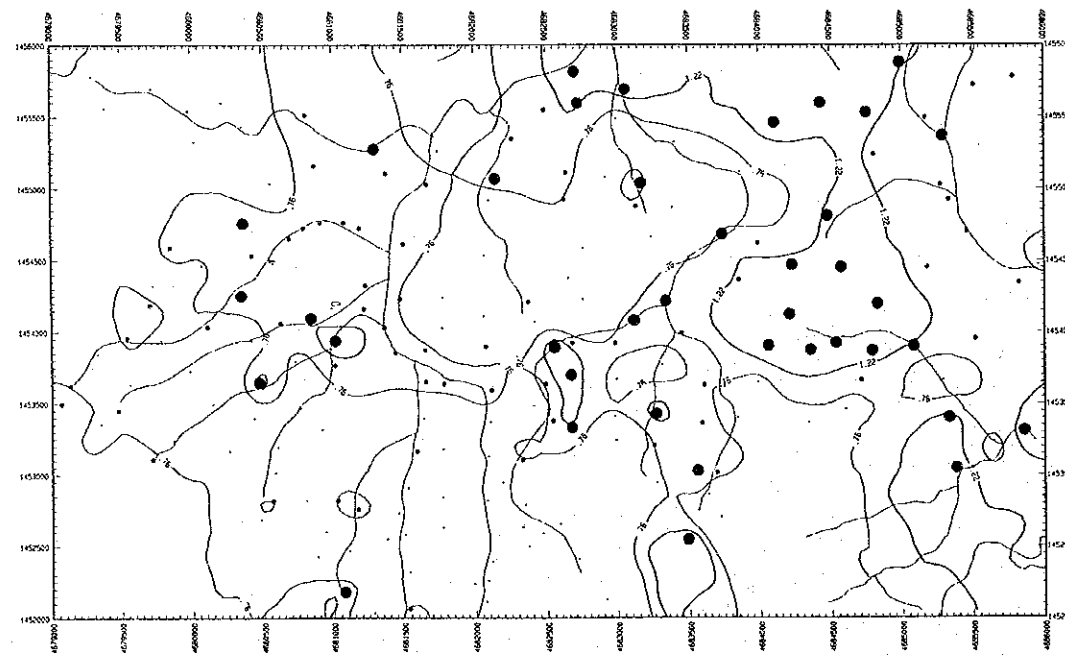
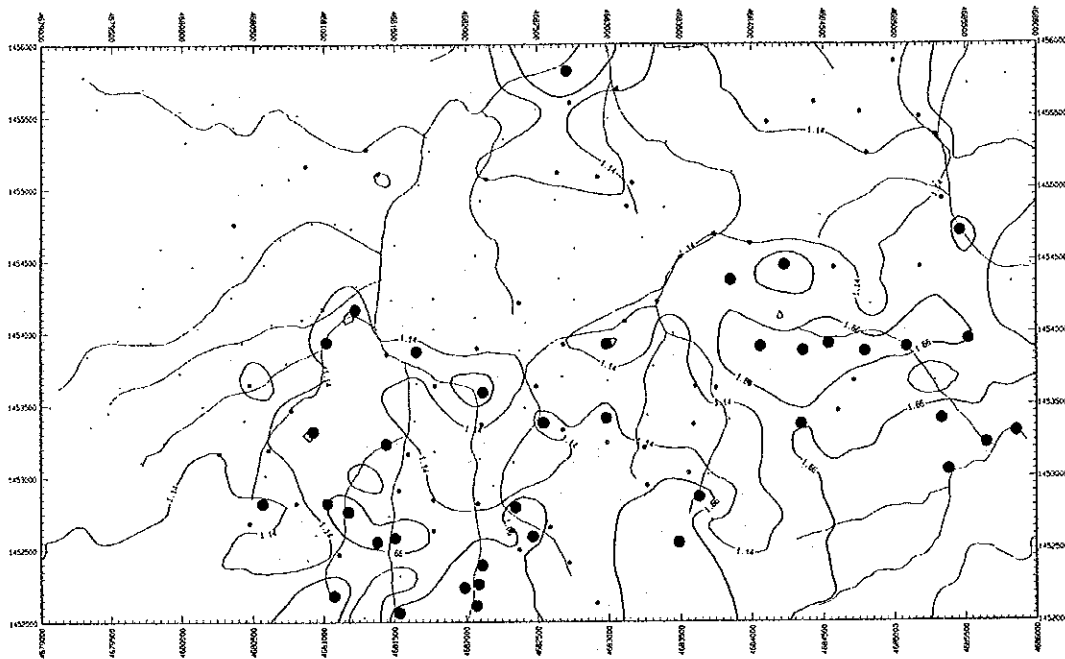
● 23.000
● 5.700
● 1.000

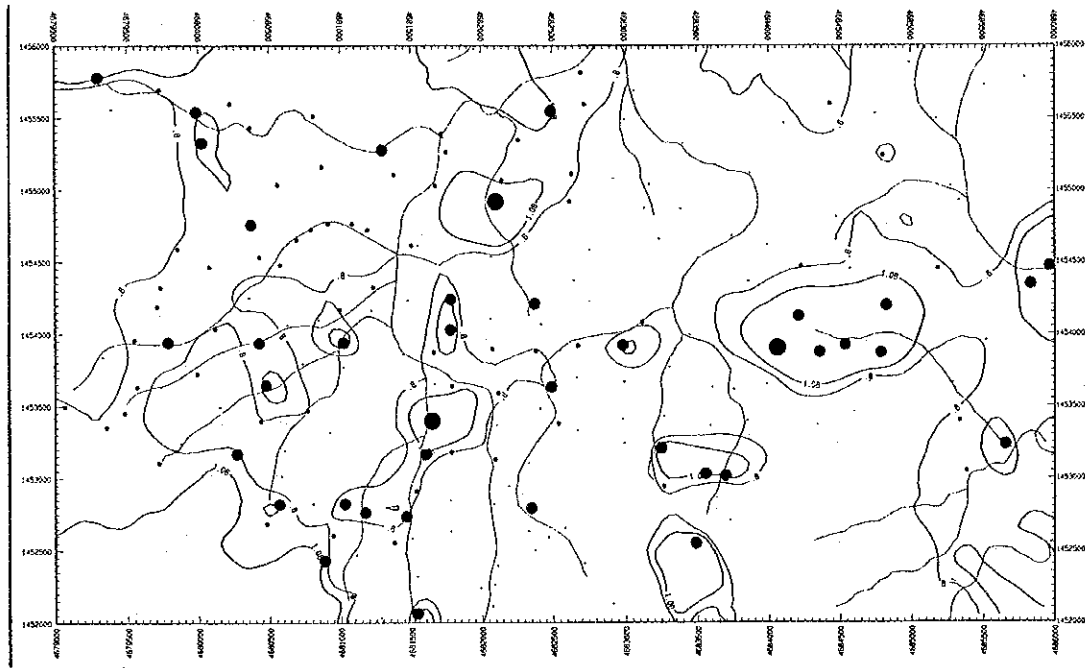


Ca

● 2.750
● .750
● .120

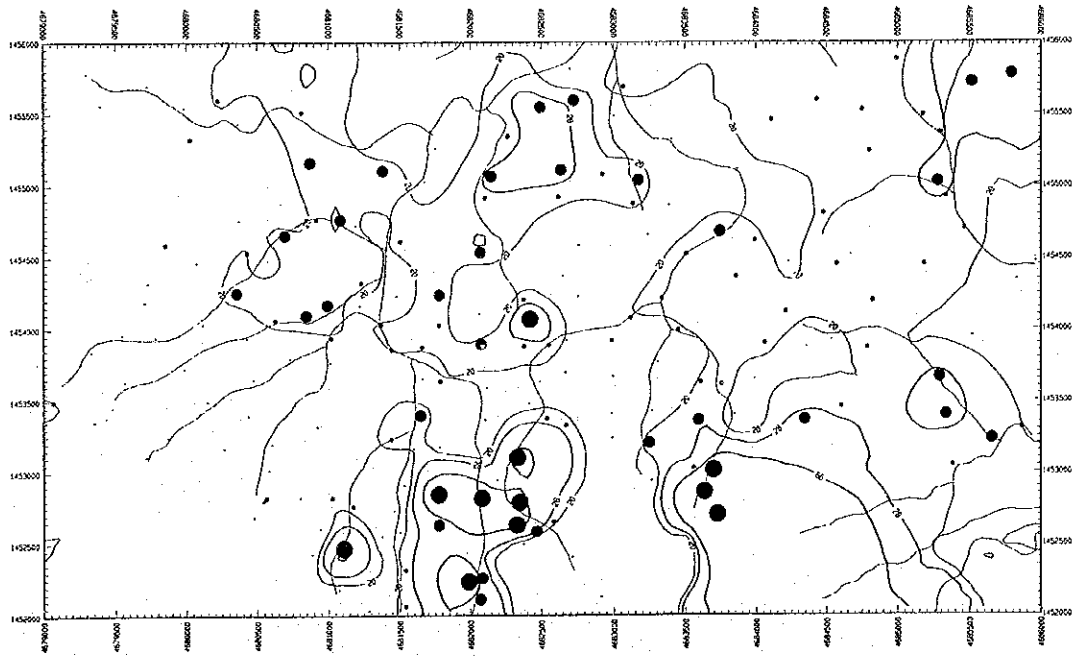






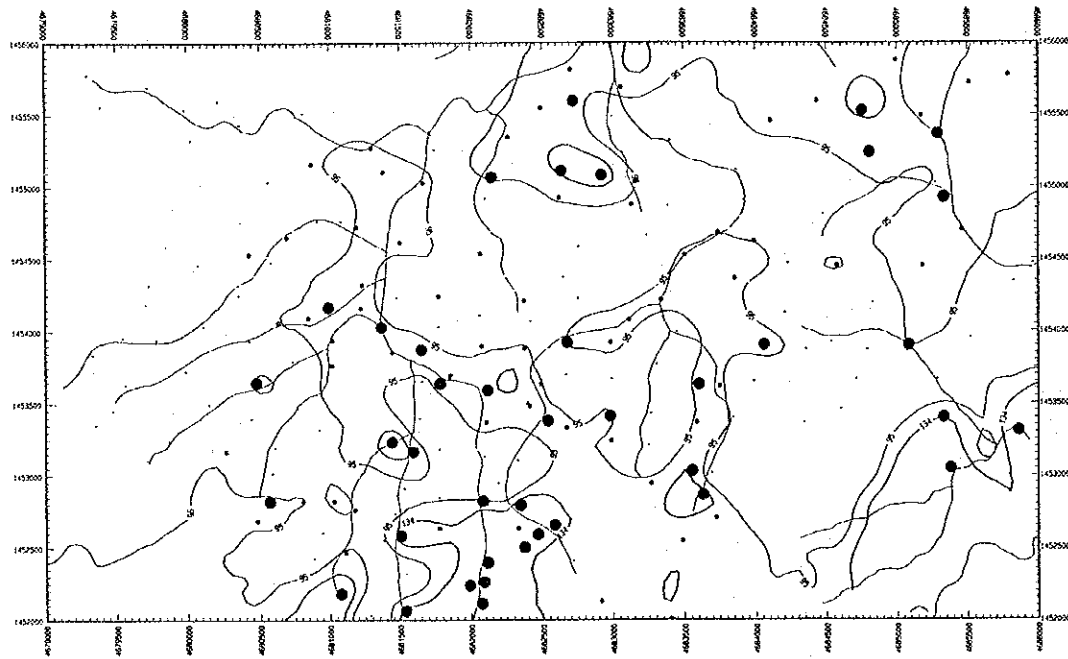
Na

2.900
1.080
800



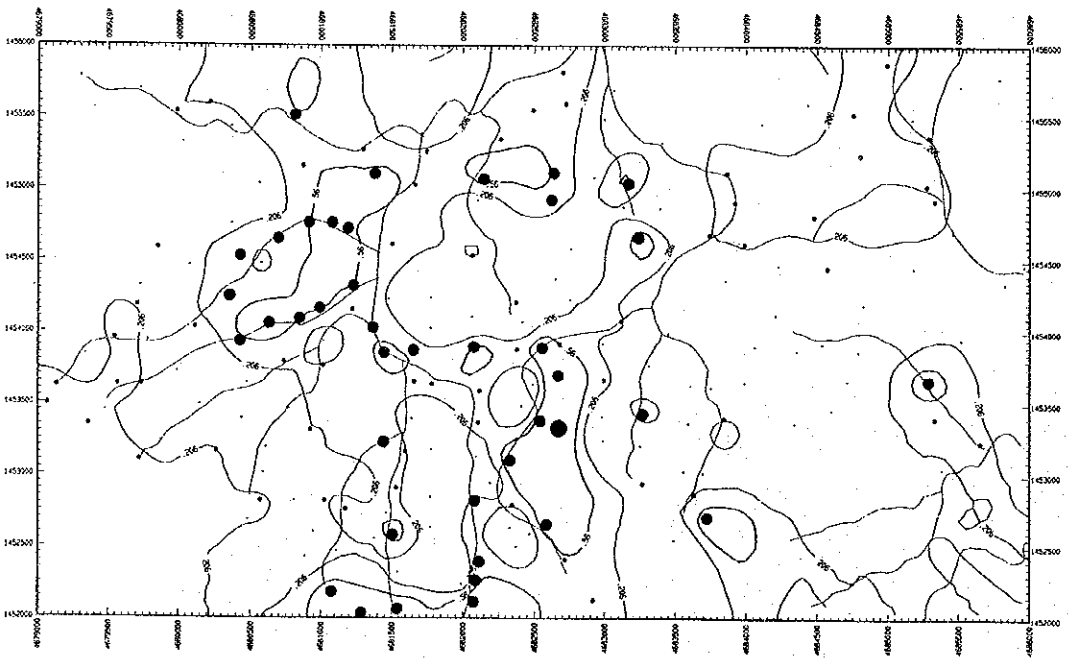
Pb

65.000
29.000
20.000



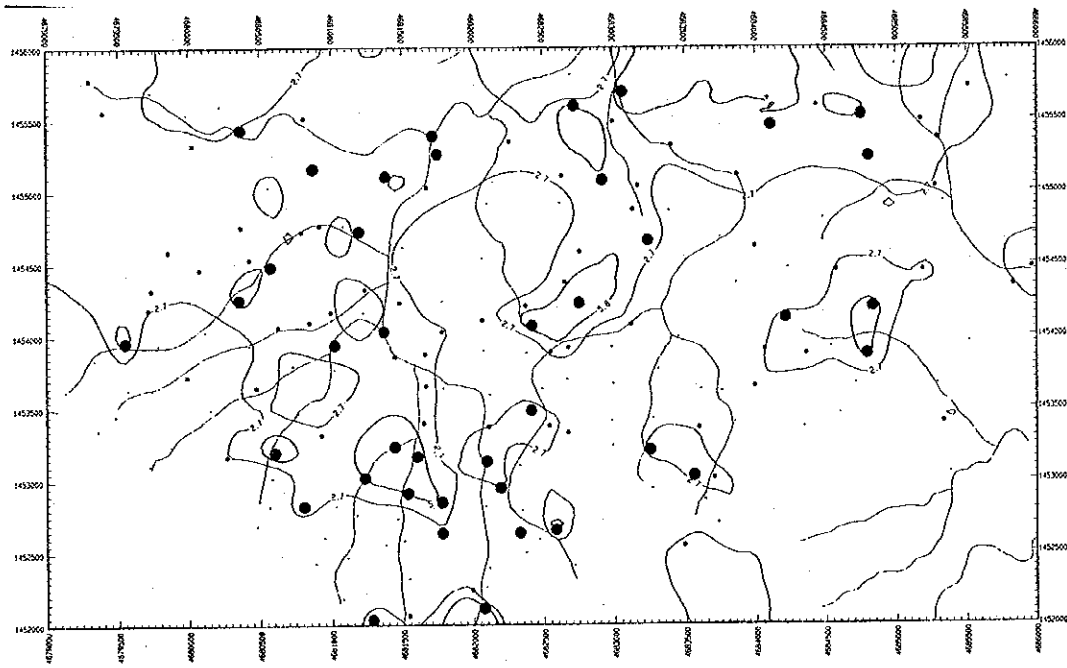
Rb

● 134.000
● 95.000



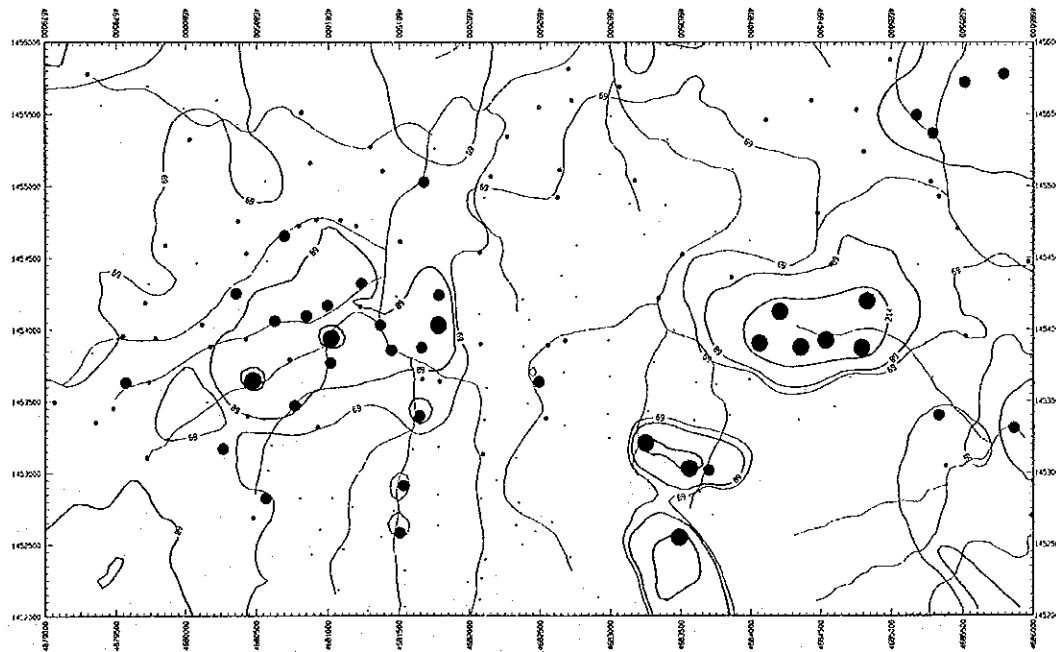
S

● 9.678
● .500
● .206



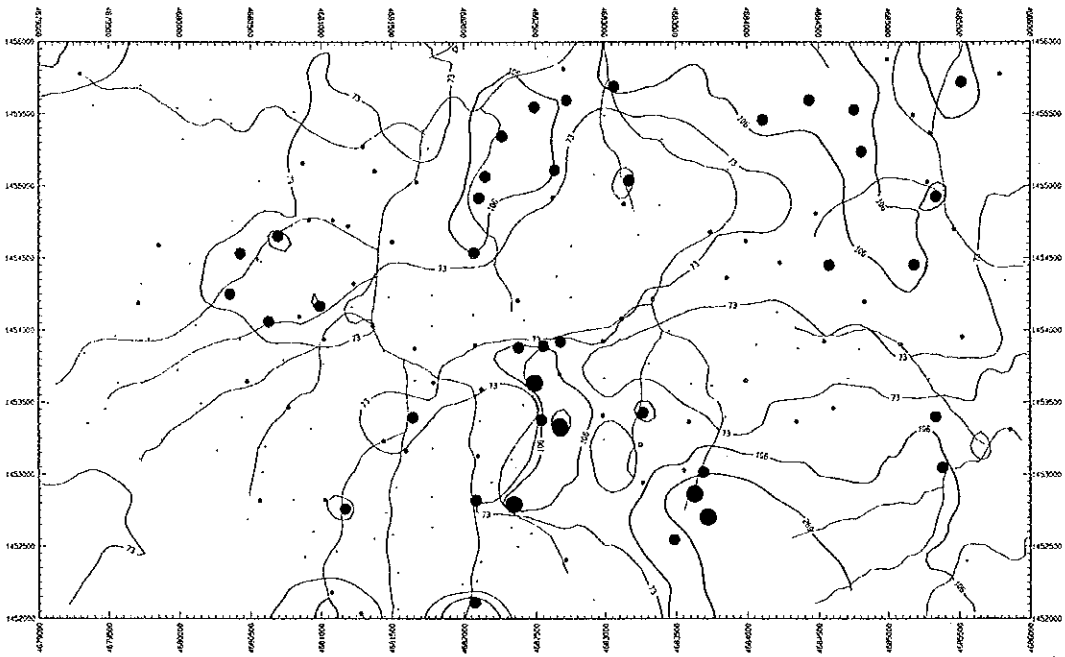
Sb

5.800
2.700



Sr

214.000
89.000
89.000



Zn

- 269.000
- 105.000
- 73.000

Appendix 5

List of soil geochemical samples in S. Imbak Sub-area (Gunong Kuli)

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
1	GK001	4679.18	1451.57	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
2	GK002	4679.61	1451.69	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
3	GK003	4679.24	1451.14	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
4	GK004	4679.72	1451.45	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
5	GK005	4679.74	1451.09	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
6	GK006	4680.48	1451.38	Gunong Kuli	Sandstone	N ₂ Tj	30	Yl.Br.	F	S	S	W	Primary Forest
7	GK007	4680.70	1451.14	Gunong Kuli	Sandstone	N ₂ Tj	30	Lt.Br.	F	S	M	W	Primary Forest
8	GK008	4684.30	1451.90	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
9	GK009	4684.56	1451.67	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
10	GK010	4684.05	1451.41	Gunong Kuli	Diorite Porphyry	I ₁	20	Yl.Br.	M	C	S	W	Primary Forest
11	GK011	4684.51	1451.41	Gunong Kuli	-	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
12	GK012	4684.42	1451.12	Gunong Kuli	Diorite Porphyry	I ₁	20	Yl.Br.	R	C	S	W	Primary Forest
13	GK013	4684.86	1451.31	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	M	C	S	W	Primary Forest
14	GK014	4685.34	1451.89	Gunong Kuli	-	I ₁	20	Yl.Br.	R	C	S	W	Primary Forest
15	GK015	4685.76	1451.88	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
16	GK016	4685.50	1451.55	Gunong Kuli	-	I ₁	20	Br.	R	C	S	W	Primary Forest
17	GK017	4685.13	1451.48	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
18	GK018	4685.74	1451.34	Gunong Kuli	-	I ₁	20	Br.	R	C	S	W	Primary Forest
19	GK019	4679.29	1450.62	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
20	GK020	4679.14	1450.14	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetatin
		N	E										
21	GK021	4679.81	1450.73	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
22	GK022	4679.85	1450.47	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
23	GK023	4679.73	1450.15	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	M	C	S	W	Primary Forest
24	GK024	4680.25	1450.64	Gunong Kuli	Sandstone	N ₂ Tj	25	Dk.Br.	M	S	M	W	Primary Forest
25	GK025	4680.61	1450.90	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	M	S	M	W	Primary Forest
26	GK026	4680.45	1450.45	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	F	S	M	W	Primary Forest
27	GK027	4680.83	1450.66	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	F	S	M	W	Primary Forest
28	GK028	4680.38	1450.11	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl.Br.	F	S	M	W	Primary Forest
29	GK029	4680.70	1450.21	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl.Br.	M	C	M	W	Primary Forest
30	GK030	4683.60	1450.93	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	M	C	S	W	Primary Forest
31	GK031	4683.85	1450.78	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
32	GK032	4683.63	1450.54	Gunong Kuli	Sandstone	N ₂ Tj	20	Rd.Br.	M	C	S	W	Primary Forest
33	GK033	4683.91	1450.38	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	M	C	S	W	Primary Forest
34	GK034	4683.70	1450.16	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
35	GK035	4684.74	1450.94	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
36	GK036	4684.48	1450.74	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
37	GK037	4684.26	1450.51	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	M	C	S	W	Primary Forest
38	GK038	4684.90	1450.70	Gunong Kuli	Diorite Porphyry	I ₁	20	Yl.Br.	R	C	S	W	Primary Forest
39	GK039	4684.69	1450.05	Gunong Kuli	Sandstone	N ₂ Tj	15	Br.	R	C	S	W	Primary Forest
40	GK040	4685.42	1450.58	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	R	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
41	GK041	4685.64	1450.82	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
42	GK042	4682.14	1449.72	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	M	S	M	W	Primary Forest
43	GK043	4685.36	1450.29	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	R	C	S	W	Primary Forest
44	GK044	4685.43	1449.93	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
45	GK045	4679.42	1449.63	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
46	GK046	4679.81	1449.81	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	M	S	S	W	Primary Forest
47	GK047	4679.31	1449.38	Gunong Kuli	Sandstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
48	GK048	4679.84	1449.34	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
49	GK049	4679.71	1449.11	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
50	GK050	4680.22	1449.73	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	M	S	S	W	Primary Forest
51	GK051	4680.54	1449.68	Gunong Kuli	Sandstone	N ₂ Tj	25	Dk.Br.	M	S	S	W	Primary Forest
52	GK052	4680.53	1449.38	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	M	S	S	W	Primary Forest
53	GK053	4680.25	1449.26	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	M	C	S	W	Primary Forest
54	GK054	4680.81	1449.15	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
55	GK055	4681.17	1449.89	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	M	C	S	W	Primary Forest
56	GK056	4681.21	1449.36	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	F	S	S	W	Primary Forest
57	GK057	4681.61	1449.41	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	M	S	S	W	Primary Forest
58	GK058	4681.85	1449.18	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	M	S	S	W	Primary Forest
59	GK059	4683.88	1449.62	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl.Br.	R	C	S	W	Primary Forest
60	GK060	4684.18	1449.81	Gunong Kuli	Sandstone	N ₂ Tj	30	Yl.Br.	F	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	HL #4	Vegetation
		N	E										
61	GK061	4684.42	1449.50	Gunong Kuli	Sandstone	N ₂ Tj	40	Yl.Br.	R	C	S	W	Primary Forest
62	GK062	4684.80	1449.66	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
63	GK063	4684.72	1449.34	Gunong Kuli	Sandstone	N ₂ Tj	25	Rd.Br.	F	C	S	W	Primary Forest
64	GK064	4684.43	1449.06	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
65	GK065	4684.80	1449.10	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
66	GK066	4685.29	1449.65	Gunong Kuli	Mudstone	N ₂ Tj	20	Dk.Br.	F	C	S	W	Primary Forest
67	GK067	4685.52	1449.55	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
68	GK068	4685.92	1449.52	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
69	GK069	4685.26	1449.24	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
70	GK070	4685.75	1449.28	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
71	GK071	4679.45	1448.74	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
72	GK072	4679.83	1448.72	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
73	GK073	4679.16	1448.34	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
74	GK074	4679.58	1448.26	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
75	GK075	4679.92	1448.20	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
76	GK076	4680.22	1448.87	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
77	GK077	4685.25	1450.93	Gunong Kuli	Diorite Porphyry	I ₁	25	Yl.Br.	F	C	S	W	Primary Forest
78	GK078	4680.17	1448.35	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
79	GK079	4680.49	1448.43	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
80	GK080	4680.56	1448.70	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunong Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
81	GK081	4680.92	1448.85	Gunong Kuli	-	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
82	GK082	4680.91	1448.17	Gunong Kuli	-	N ₂ Tj	10	Yl.Br.	F	C	S	W	Primary Forest
83	GK083	4681.39	1448.69	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
84	GK084	4681.97	1448.70	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
85	GK085	4681.76	1448.43	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
86	GK086	4684.31	1448.41	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
87	GK087	4684.64	1448.59	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
88	GK088	4684.93	1448.69	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
89	GK089	4684.76	1448.26	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	M	C	S	W	Primary Forest
90	GK090	4685.29	1448.86	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
91	GK091	4685.23	1448.43	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
92	GK092	4685.84	1448.46	Gunong Kuli	Diorite Porphyry	I ₁	20	Yl.Br.	R	C	S	W	Primary Forest
93	GK093	4685.41	1448.14	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
94	GK094	4685.64	1448.12	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
95	GK095	4679.29	1447.87	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
96	GK096	4679.10	1447.57	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
97	GK097	4679.75	1447.62	Gunong Kuli	Diorite Porphyry	I ₁	25	Yl.Br.	R	C	S	W	Primary Forest
98	GK098	4679.59	1447.22	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	M	S	S	W	Primary Forest
99	GK099	4680.40	1447.71	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
100	GK100	4680.68	1447.93	Gunong Kuli	-	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Ser. No.	Sample No.	Coordinates		Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
101	GK101	4680.46	1447.15	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	F	C	S	W	Primary Forest
102	GK102	4680.92	1447.43	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	M	C	S	W	Primary Forest
103	GK103	4680.84	1447.16	Gunong Kuli	Mudstone	N ₂ Tj	15	Br.	F	C	S	W	Primary Forest
104	GK104	4681.42	1447.80	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	F	C	S	W	Primary Forest
105	GK105	4681.21	1447.51	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	M	W	Primary Forest
106	GK106	4681.69	1447.82	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	M	S	S	W	Primary Forest
107	GK107	4681.66	1447.50	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	S	F	W	Primary Forest
108	GK108	4682.06	1447.44	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	M	C	S	W	Primary Forest
109	GK109	4682.36	1447.54	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	M	C	S	W	Primary Forest
110	GK110	4682.89	1447.88	Gunong Kuli	Diorite Porphyry	I ₁	15	Yl.Br.	F	C	S	W	Primary Forest
111	GK111	4682.72	1447.57	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	F	C	S	W	Primary Forest
112	GK112	4683.13	1447.63	Gunong Kuli	Mudstone	N ₂ Tj	15	Dk.Br.	F	C	S	W	Primary Forest
113	GK113	4685.31	1447.61	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	R	C	S	W	Primary Forest
114	GK114	4685.83	1447.71	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	R	C	F	W	Primary Forest
115	GK115	4685.55	1447.34	Gunong Kuli	-	N ₂ Tj	20	Br.	F	S	F	W	Primary Forest
116	GK116	4685.78	1447.18	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl.Br.	R	C	S	W	Primary Forest
117	GK117	4679.32	1446.91	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
118	GK118	4679.52	1446.57	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	S	F	W	Primary Forest
119	GK119	4679.88	1446.81	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl.Br.	R	C	F	W	Primary Forest
120	GK120	4679.27	1446.14	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	C	F	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetatin
		N	E										
121	GK121	4679.82	1446.26	Gunong Kuli	Mudstone	N ₂ Tj	25	Yl.Br.	R	C	F	W	Primary Forest
122	GK122	4680.25	1446.77	Gunong Kuli	Mudstone	N ₂ Tj	25	Yl.Br.	R	C	F	W	Primary Forest
123	GK123	4680.84	1446.95	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
124	GK124	4680.70	1446.48	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
125	GK125	4680.23	1446.25	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
126	GK126	4680.68	1446.24	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
127	GK127	4681.27	1446.71	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest
128	GK128	4681.68	1446.80	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
129	GK129	4681.25	1446.45	Gunong Kuli	Mudstone	N ₂ Tj	25	Yl.Br.	R	C	S	W	Primary Forest
130	GK130	4681.86	1446.49	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
131	GK131	4681.50	1446.09	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
132	GK132	4682.01	1446.73	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	F	C	S	W	Primary Forest
133	GK133	4682.50	1446.87	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
134	GK134	4682.27	1446.39	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
135	GK135	4682.78	1446.42	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
136	GK136	4682.67	1446.69	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	R	C	S	W	Primary Forest
137	GK137	4683.64	1446.79	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
138	GK138	4683.33	1446.32	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
139	GK139	4683.75	1446.36	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	R	C	S	W	Primary Forest
140	GK140	4684.13	1446.28	Gunong Kuli	Diorite Porphyry	I ₁	25	Yl.Br.	R	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
141	GK141	4685.60	1446.63	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	C	S	W	Primary Forest
142	GK142	4685.84	1446.73	Gunong Kuli	Mudstone	N ₂ Tj	20	Dk.Br.	R	C	S	W	Primary Forest
143	GK143	4685.79	1446.44	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
144	GK144	4685.61	1446.21	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
145	GK145	4679.19	1445.74	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest
146	GK146	4679.86	1445.81	Gunong Kuli	Mudstone	N ₂ Tj	30	Br.	R	C	S	W	Primary Forest
147	GK147	4679.50	1445.62	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	R	C	F	W	Primary Forest
148	GK148	4679.28	1445.21	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	F	C	F	W	Primary Forest
149	GK149	4679.88	1445.29	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
150	GK150	4680.16	1445.80	Gunong Kuli	-	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
151	GK151	4680.66	1445.98	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
152	GK152	4680.49	1445.59	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	C	F	W	Primary Forest
153	GK153	4680.21	1445.13	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest
154	GK154	4680.70	1445.33	Gunong Kuli	Mudstone	N ₂ Tj	25	Yl.Br.	R	C	S	W	Primary Forest
155	GK155	4681.25	1445.43	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
156	GK156	4681.58	1445.74	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
157	GK157	4681.90	1445.95	Gunong Kuli	-	N ₂ Tj	30	Yl.Br.	F	C	F	W	Primary Forest
158	GK158	4681.90	1445.61	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	F	C	S	W	Primary Forest
159	GK159	4681.71	1445.34	Gunong Kuli	-	N ₂ Tj	30	Br.	R	C	S	W	Primary Forest
160	GK160	4682.27	1445.96	Gunong Kuli	Diorite Porphyry	I ₁	20	Yl.Br.	F	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
161	GK161	4682.66	1445.96	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
162	GK162	4682.54	1445.65	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	F	C	S	W	Primary Forest
163	GK163	4682.74	1445.16	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	M	C	S	D	Primary Forest
164	GK164	4682.83	1445.49	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
165	GK165	4683.35	1445.86	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
166	GK166	4683.69	1445.79	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
167	GK167	4682.94	1445.20	Gunong Kuli	Diorite Porphyry	I ₁	20	Br.	F	C	S	W	Primary Forest
168	GK168	4683.40	1445.34	Gunong Kuli	Sandstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
169	GK169	4683.76	1445.38	Gunong Kuli	Diorite Porphyry	I ₁	20	Yl.Br.	R	C	F	W	Primary Forest
170	GK170	4684.09	1445.82	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
171	GK171	4684.53	1445.70	Gunong Kuli	Sandstone	N ₂ Tj	40	Wh.Br.	M	S	S	W	Primary Forest
172	GK172	4684.09	1445.48	Gunong Kuli	Sandstone	N ₂ Tj	30	Dk.Br.	R	C	S	W	Primary Forest
173	GK173	4684.51	1445.20	Gunong Kuli	Sandstone	N ₂ Tj	40	Wh.Br.	R	S	S	W	Primary Forest
174	GK174	4685.33	1445.93	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	M	C	S	W	Primary Forest
175	GK175	4685.89	1445.88	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
176	GK176	4685.35	1445.62	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
177	GK177	4685.19	1445.21	Gunong Kuli	Mudstone	N ₂ Tj	25	Yl.Br.	R	C	S	W	Primary Forest
178	GK178	4685.57	1445.35	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
179	GK179	4679.27	1444.83	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	F	W	Primary Forest
180	GK180	4679.58	1444.72	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
181	GK181	4679.90	1444.90	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest
182	GK182	4679.20	1444.32	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	F	W	Primary Forest
183	GK183	4679.54	1444.26	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl.Br.	R	C	F	W	Primary Forest
184	GK184	4679.86	1444.29	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
185	GK185	4680.15	1444.68	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest
186	GK186	4680.64	1444.91	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
187	GK187	4680.46	1444.33	Gunong Kuli	-	N ₂ Tj	30	Br.	F	C	F	W	Primary Forest
188	GK188	4680.81	1444.44	Gunong Kuli	Mudstone	N ₂ Tj	40	Br.	R	C	F	W	Primary Forest
189	GK189	4680.31	1444.06	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	F	C	F	W	Primary Forest
190	GK190	4681.23	1444.80	Gunong Kuli	Mudstone	N ₂ Tj	30	Br.	R	C	S	W	Primary Forest
191	GK191	4681.80	1444.97	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
192	GK192	4681.56	1444.56	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
193	GK193	4681.29	1444.13	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
194	GK194	4681.85	1444.23	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	F	S	S	D	Primary Forest
195	GK195	4682.19	1444.38	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	F	C	S	W	Primary Forest
196	GK196	4682.55	1444.71	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	M	C	S	W	Primary Forest
197	GK197	4682.46	1444.21	Gunong Kuli	Mudstone	N ₂ Tj	20	Dk.Br.	M	C	S	W	Primary Forest
198	GK198	4682.85	1444.15	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
199	GK199	4683.14	1444.17	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
200	GK200	4683.40	1444.44	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
201	GK201	4683.58	1444.83	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest
202	GK202	4683.82	1444.70	Gunong Kuli	Sandstone	N ₂ Tj	30	Yl.Br.	F	C	S	W	Primary Forest
203	GK203	4683.63	1444.28	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	F	C	S	W	Primary Forest
204	GK204	4684.13	1444.90	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl.Br.	R	S	S	W	Primary Forest
205	GK205	4684.33	1444.71	Gunong Kuli	Sandstone	N ₂ Tj	35	Lt.Br.	R	S	S	W	Primary Forest
206	GK206	4684.08	1444.07	Gunong Kuli	Sandstone	N ₂ Tj	20	Lt.Br.	R	C	S	W	Primary Forest
207	GK207	4684.39	1444.12	Gunong Kuli	Sandstone	N ₂ Tj	40	Lt.Br.	R	S	S	W	Primary Forest
208	GK208	4684.87	1444.27	Gunong Kuli	Mudstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
209	GK209	4685.25	1444.52	Gunong Kuli	-	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
210	GK210	4685.44	1444.83	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
211	GK211	4685.79	1444.57	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
212	GK212	4685.28	1444.15	Gunong Kuli	Sandstone	N ₂ Tj	30	Yl.Br.	R	C	S	W	Primary Forest
213	GK213	4685.76	1444.23	Gunong Kuli	-	N ₂ Tj	30	Yl.Br.	R	C	F	W	Primary Forest
214	GK214	4679.22	1443.89	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	F	W	Primary Forest
215	GK215	4679.51	1443.82	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest
216	GK216	4679.80	1443.55	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest
217	GK217	4679.29	1443.32	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest
218	GK218	4679.76	1443.23	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	R	C	S	W	Primary Forest
219	GK219	4680.07	1443.84	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	R	S	S	W	Primary Forest
220	GK220	4680.39	1443.65	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunong Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
221	GK221	4680.62	1443.87	Gunong Kuli	-	N ₂ Tj	20	Yl. Br.	R	C	F	W	Primary Forest
222	GK222	4680.86	1443.72	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl. Br.	M	C	F	W	Primary Forest
223	GK223	4680.27	1443.30	Gunong Kuli	-	N ₂ Tj	15	Yl. Br.	R	C	S	W	Primary Forest
224	GK224	4680.72	1443.23	Gunong Kuli	-	N ₂ Tj	15	Dk. Br.	R	C	S	W	Primary Forest
225	GK225	4681.27	1443.90	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
226	GK226	4681.58	1443.65	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
227	GK227	4681.63	1443.40	Gunong Kuli	Sandstone	N ₂ Tj	25	Yl. Br.	R	C	F	W	Primary Forest
228	GK228	4681.20	1443.29	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	S	S	W	Primary Forest
229	GK229	4681.35	1443.08	Gunong Kuli	Mudstone	N ₂ Tj	25	Yl. Br.	F	C	S	W	Primary Forest
230	GK230	4681.97	1443.12	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl. Br.	F	C	S	W	Primary Forest
231	GK231	4682.29	1443.55	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl. Br.	R	C	S	W	Primary Forest
232	GK232	4682.65	1443.63	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	D	Primary Forest
233	GK233	4682.81	1443.87	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	C	S	W	Primary Forest
234	GK234	4682.81	1443.28	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	C	S	W	Primary Forest
235	GK235	4682.42	1443.06	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	S	D	Primary Forest
236	GK236	4683.10	1443.17	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	F	S	S	W	Primary Forest
237	GK237	4683.48	1443.72	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl. Br.	R	C	S	W	Primary Forest
238	GK238	4683.92	1443.61	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl. Br.	F	S	S	W	Primary Forest
239	GK239	4683.65	1443.16	Gunong Kuli	-	N ₂ Tj	25	Yl. Br.	R	C	S	W	Primary Forest
240	GK240	4684.39	1443.72	Gunong Kuli	Sandstone	N ₂ Tj	10	Yl. Br.	M	S	S	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
241	GK241	4684.18	1443.31	Gunong Kuli	-	N ₂ Tj	15	Br.	M	S	S	D	Primary Forest
242	GK242	4684.73	1443.61	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	S	D	Primary Forest
243	GK243	4684.61	1443.18	Gunong Kuli	Sandstone	N ₂ Tj	20	Dk.Br.	R	C	S	W	Primary Forest
244	GK244	4685.21	1443.71	Gunong Kuli	Mudstone	N ₂ Tj	30	Br.	R	C	S	W	Primary Forest
245	GK245	4685.44	1443.46	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	S	F	W	Primary Forest
246	GK246	4685.73	1443.80	Gunong Kuli	Mudstone	N ₂ Tj	30	Br.	R	C	F	W	Primary Forest
247	GK247	4685.79	1443.19	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	F	W	Primary Forest
248	GK248	4679.09	1442.55	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest
249	GK249	4679.40	1442.70	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	F	C	F	W	Primary Forest
250	GK250	4679.17	1442.15	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	R	C	F	W	Primary Forest
251	GK251	4679.91	1442.89	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
252	GK252	4680.09	1442.49	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
253	GK253	4680.27	1442.85	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest
254	GK254	4680.47	1442.13	Gunong Kuli	Mudstone	N ₂ Tj	20	Yl.Br.	F	C	F	W	Primary Forest
255	GK255	4680.61	1442.51	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	F	S	S	W	Primary Forest
256	GK256	4680.89	1442.81	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	F	C	F	W	Primary Forest
257	GK257	4681.30	1442.78	Gunong Kuli	Mudstone	N ₂ Tj	15	Yl.Br.	F	C	F	W	Primary Forest
258	GK258	4681.86	1442.75	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	C	F	W	Primary Forest
259	GK259	4681.46	1442.08	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest
260	GK260	4681.81	1442.33	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).

Area: Gunung Kuli

Ser. No.	Sample No.	Coordinates		1/50,000 Topo. Sheet	Rock of Basement	Geol. Unit	Depth (cm)	Color	G. #1	S. #2	T. #3	H. #4	Vegetation
		N	E										
261	GK261	4682.15	1442.41	Gunong Kuli	-	N ₂ Tj	15	Yl.Br.	R	C	F	W	Primary Forest
262	GK262	4682.32	1442.66	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
263	GK263	4682.76	1442.83	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
264	GK264	4682.61	1442.29	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	R	C	F	W	Primary Forest
265	GK265	4683.42	1451.18	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	M	C	S	W	Primary Forest
266	GK266	4683.75	1451.70	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	M	C	S	W	Primary Forest
267	GK267	4683.42	1442.80	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	S	S	W	Primary Forest
268	GK268	4683.49	1442.41	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
269	GK269	4683.83	1442.79	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	F	W	Primary Forest
270	GK270	4683.88	1442.40	Gunong Kuli	-	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
271	GK271	4684.31	1442.76	Gunong Kuli	Sandstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
272	GK272	4684.10	1442.27	Gunong Kuli	Sandstone	N ₂ Tj	25	Br.	R	C	F	W	Primary Forest
273	GK273	4684.47	1442.36	Gunong Kuli	Sandstone	N ₂ Tj	20	Yl.Br.	R	C	S	W	Primary Forest
274	GK274	4684.65	1442.11	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
275	GK275	4684.93	1442.55	Gunong Kuli	Mudstone	N ₂ Tj	20	Br.	R	C	S	W	Primary Forest
276	GK276	4685.18	1442.90	Gunong Kuli	Mudstone	N ₂ Tj	25	Br.	R	C	F	W	Primary Forest
277	GK277	4685.48	1442.65	Gunong Kuli	Mudstone	N ₂ Tj	30	Br.	R	C	F	W	Primary Forest
278	GK278	4685.90	1442.70	Gunong Kuli	-	N ₂ Tj	20	Br.	R	C	F	W	Primary Forest
279	GK279	4685.25	1442.12	Gunong Kuli	Sandstone	N ₂ Tj	30	Br.	R	C	F	W	Primary Forest
280	GK280	4685.79	1442.16	Gunong Kuli	Mudstone	N ₂ Tj	30	Br.	R	C	F	W	Primary Forest

*1 Gravel: many (M), few (F), rare or none (R). *2 Grain size: sandy (S), clayey (C). *3 Topography: steep (S), medium (M), flat (F).

*4 Humidity: dry (D), wet (W).