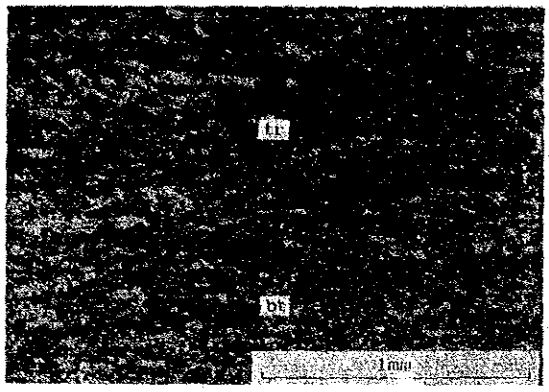
APPENDIXES

Photo A - 1 Microphotograph of Thin Section

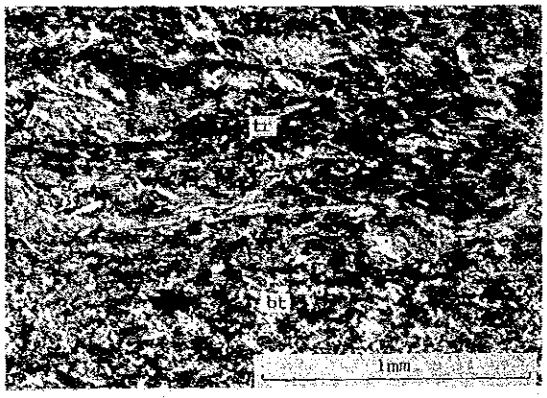
Abbreviation

q	:	quartz
pl	:	plagioclase
K--f	:	potash feldspar
bt	:	biotite
tr	:	toremolite
ch	:	chlorite
se	:	sericite
cb	:	carbonic material

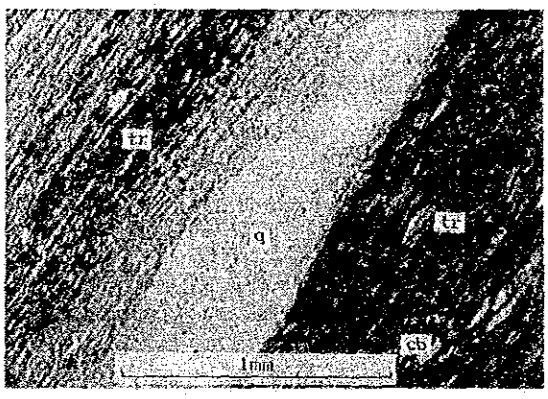


Sample No. : Y 15
Rock name : hornfels
Location : Area a–1
Texture : nematoblastic

(only lower polar)

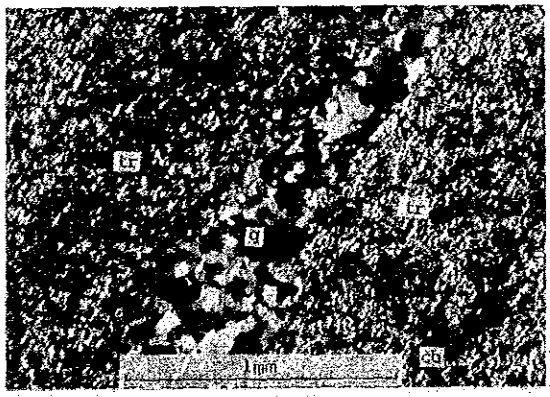


(crossed polars)

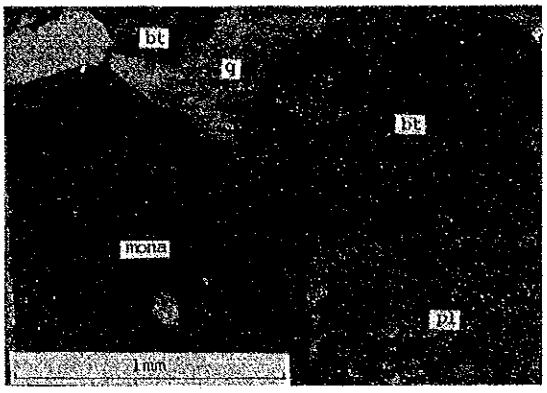


Sample No. : Y 53
Rock name : graphite phyllite
Location : Area a–1
Texture : nematoblastic

(only lower polar)

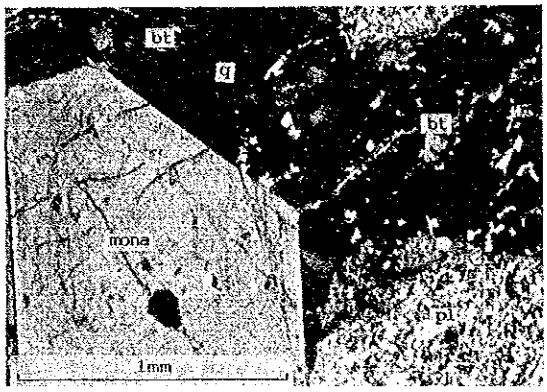


(crossed polars)

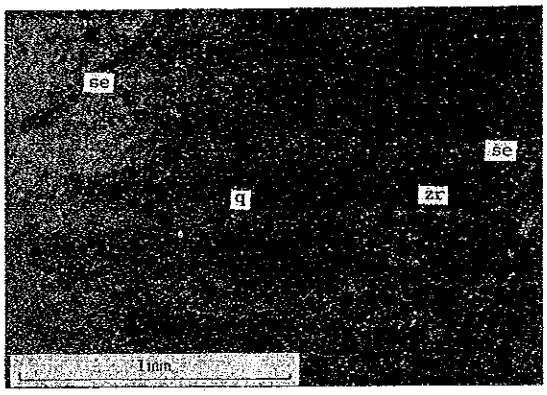


Sample No. : CY 18
Rock name : granite
Location : Area c
Texture : porphyritic

(only lower polar)

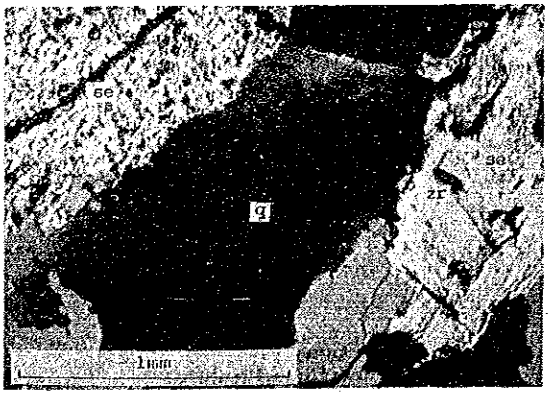


(crossed polars)

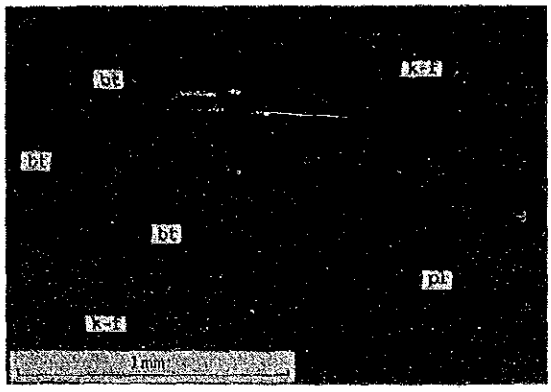


Sample No. : CY 20
Rock name : granite
Location : Area c
Texture : granoblastic

(only lower polar)

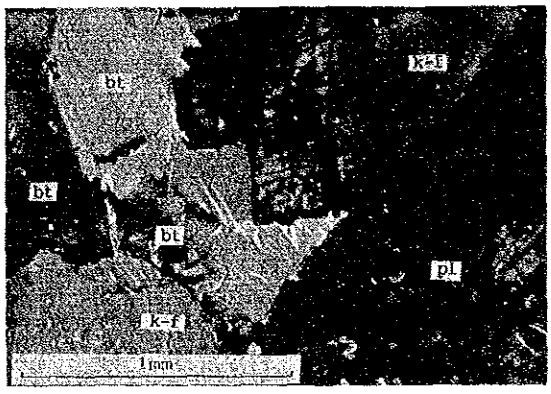


(crossed polars)

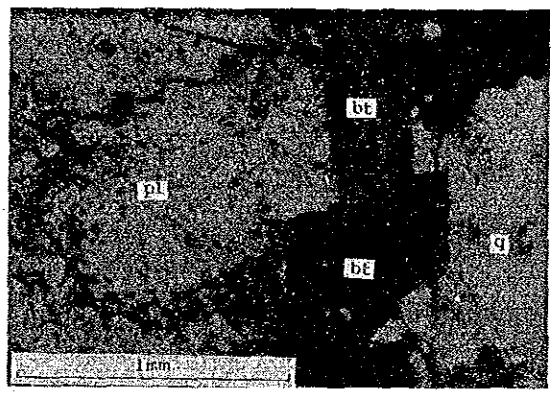


Sample No. : CF 27
Rock name : granite
Location : Area c
Texture : porphyritic

(only lower polar)



(crossed polars)



Sample No. : CF 41
Rock name : granite
Location : Area c
Texture : porphyritic

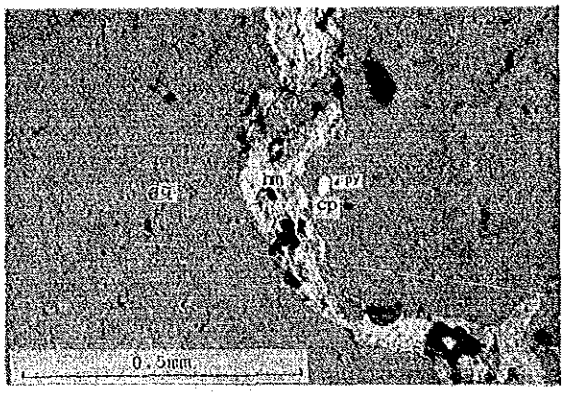
(only lower polar)

(crossed polars)

Photo A - 2 Microphotograph of Polished Section

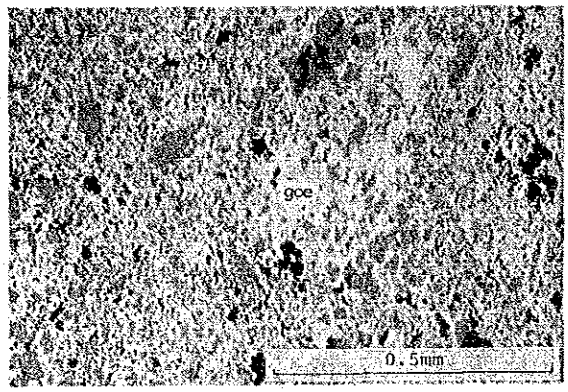
Abbreviation

py : pyrite
cp : chalcopyrite
goe : goethite
q : quartz
hm : hematite



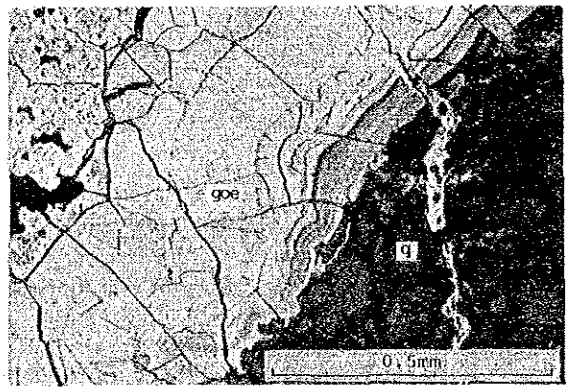
Sample No. : F 26
Ore name : quartz vein
Location : Area a–1

(only lower polar)



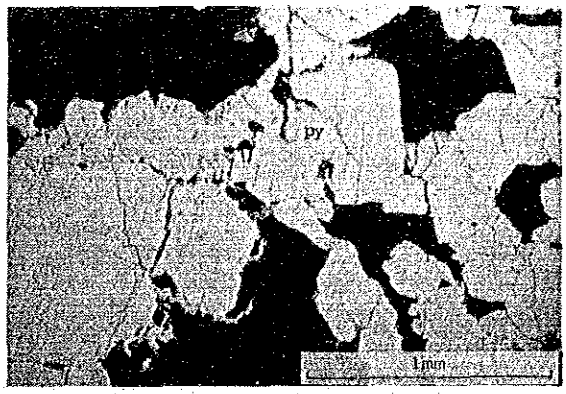
Sample No. : Y 02
Ore name : goethite-hematite ore
Location : Area a–1

(only lower polar)



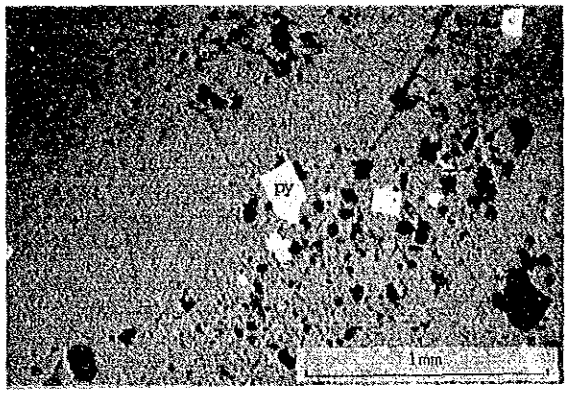
Sample No. : Y 26
Ore name : goethite-hematite ore
Location : Area a–1

(only lower polar)



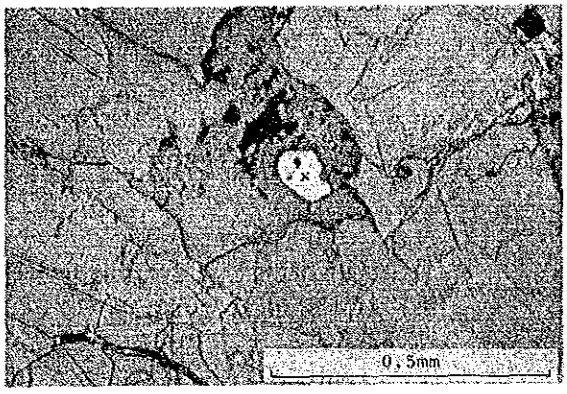
Sample No. : Y 57
Ore name : quartz vein
Location : Area a–1

(only lower polar)



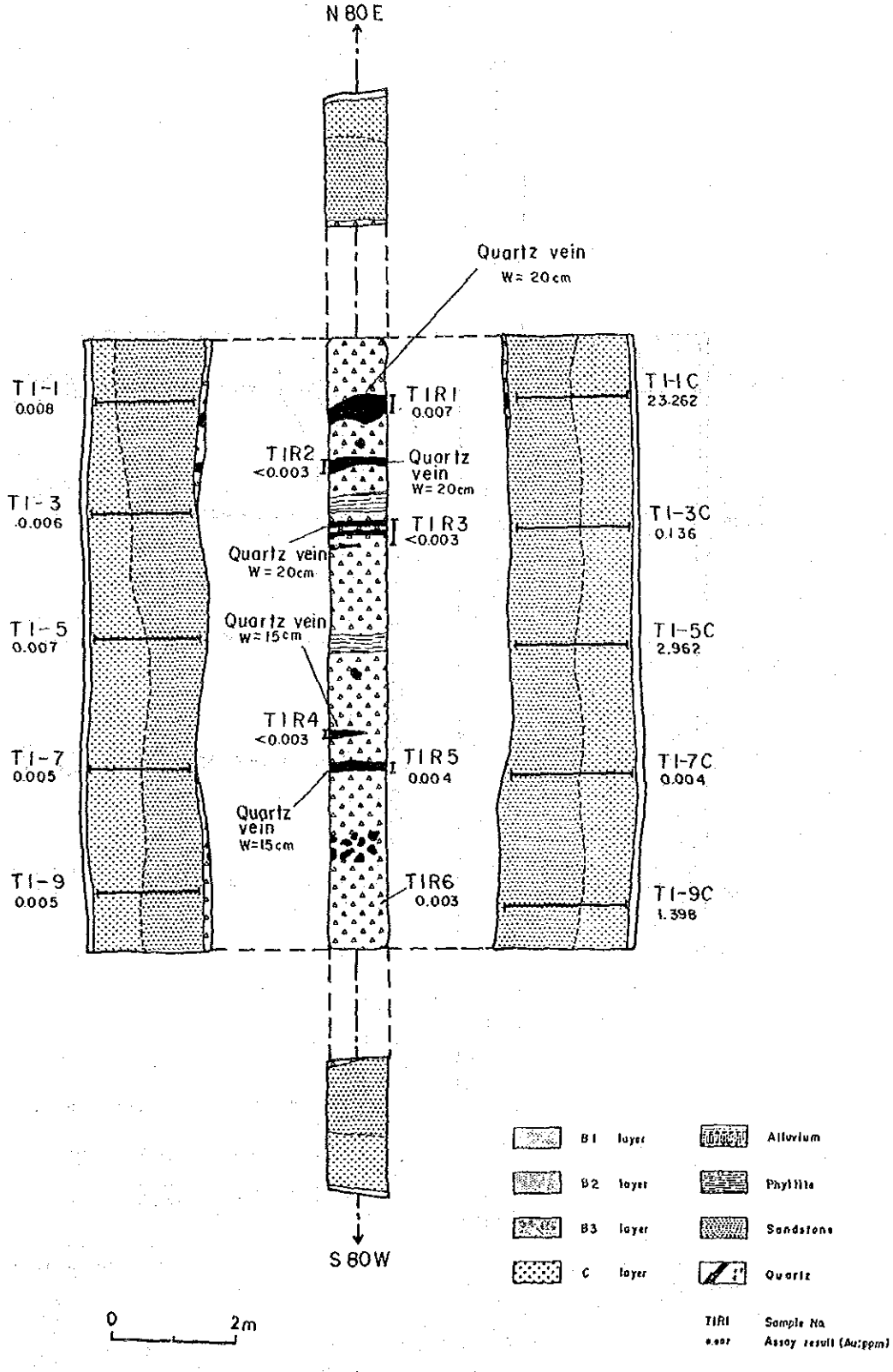
Sample No. : Y 60
Ore name : quartz vein
Location : Area a–1

(only lower polar)



Sample No. : CY 52
Ore name : unknown mineral (x)
Location : Area c

(only lower polar)



Trench I

Fig. A–1 Sketch map of trenches in the Area a-1 (1)

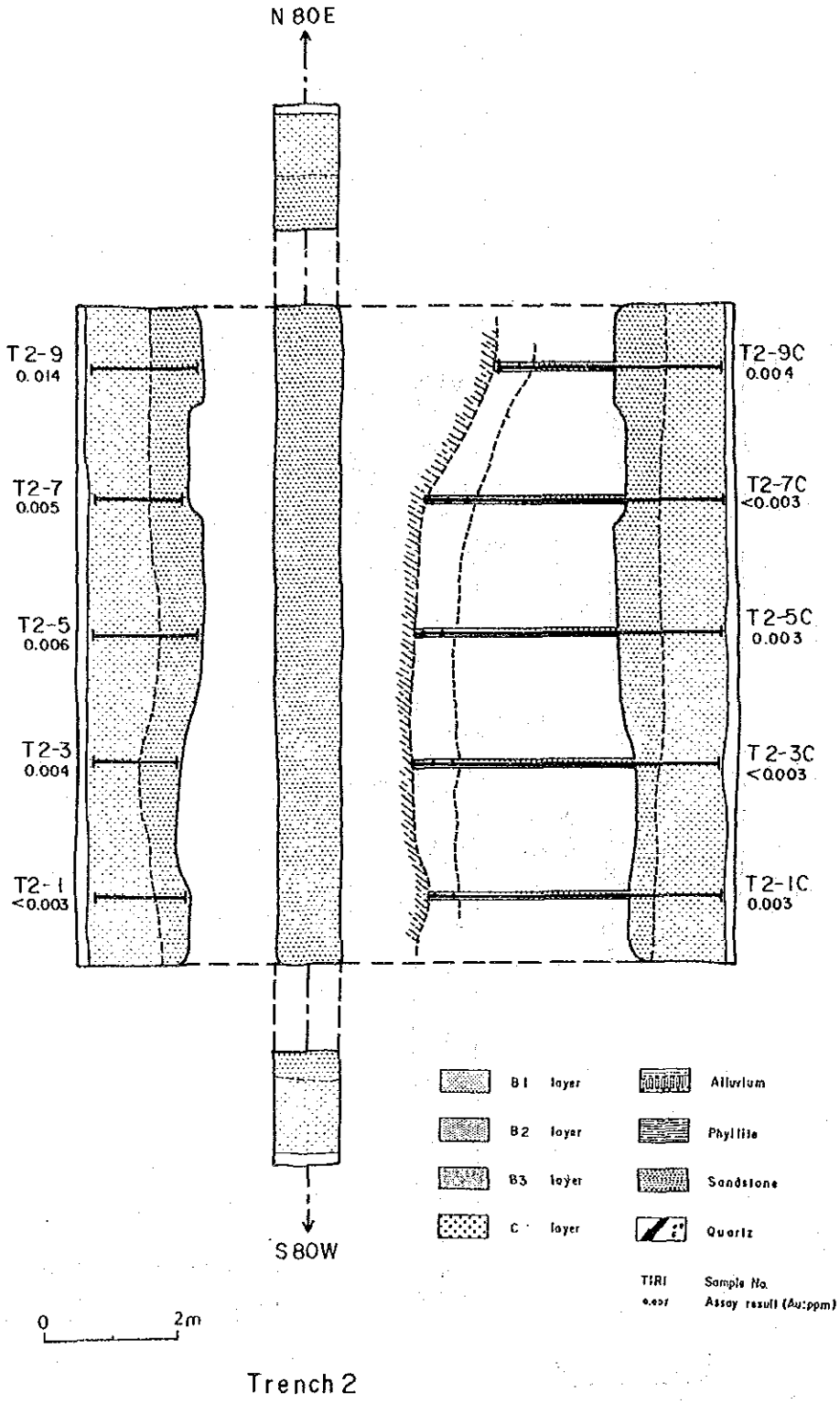
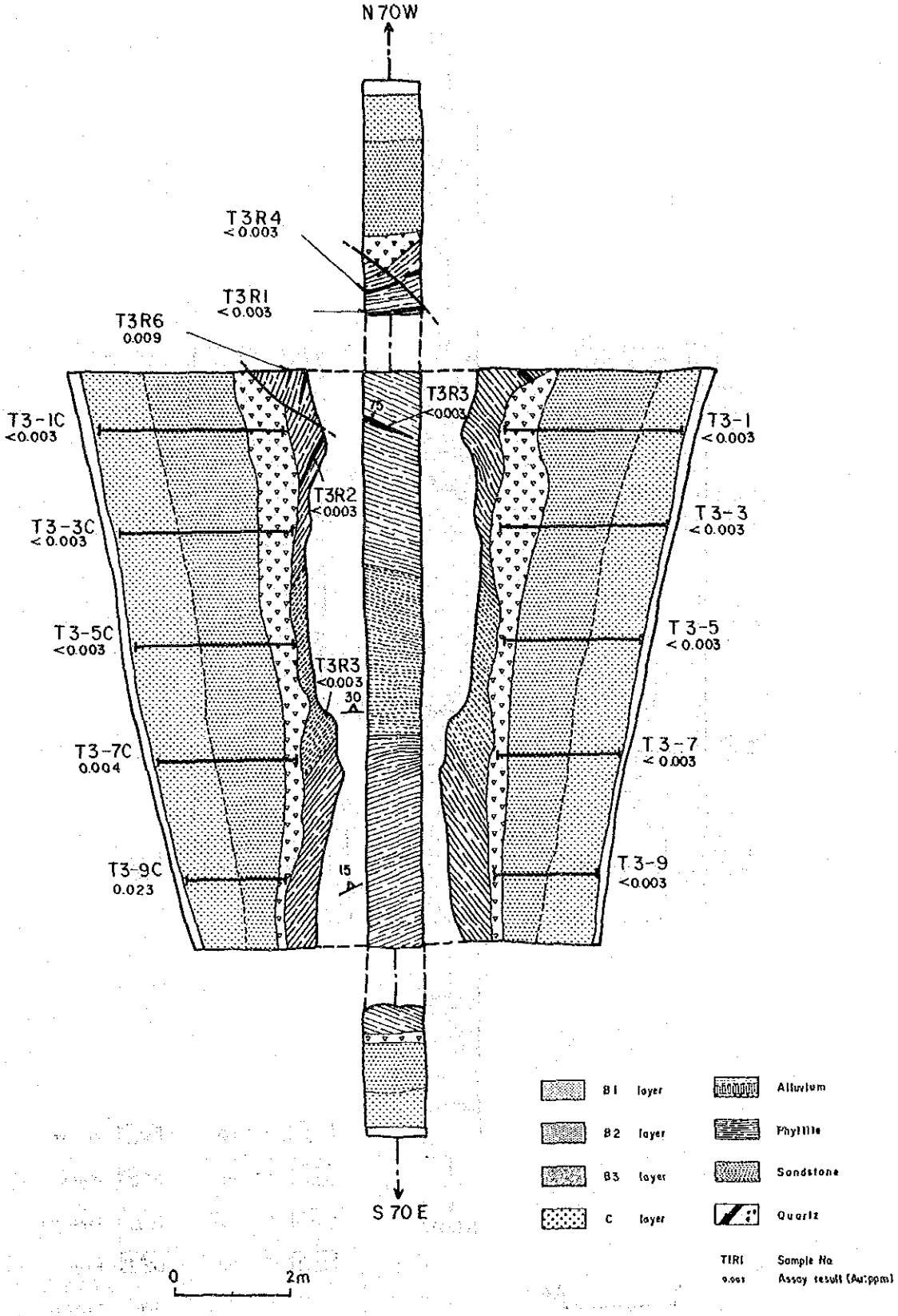
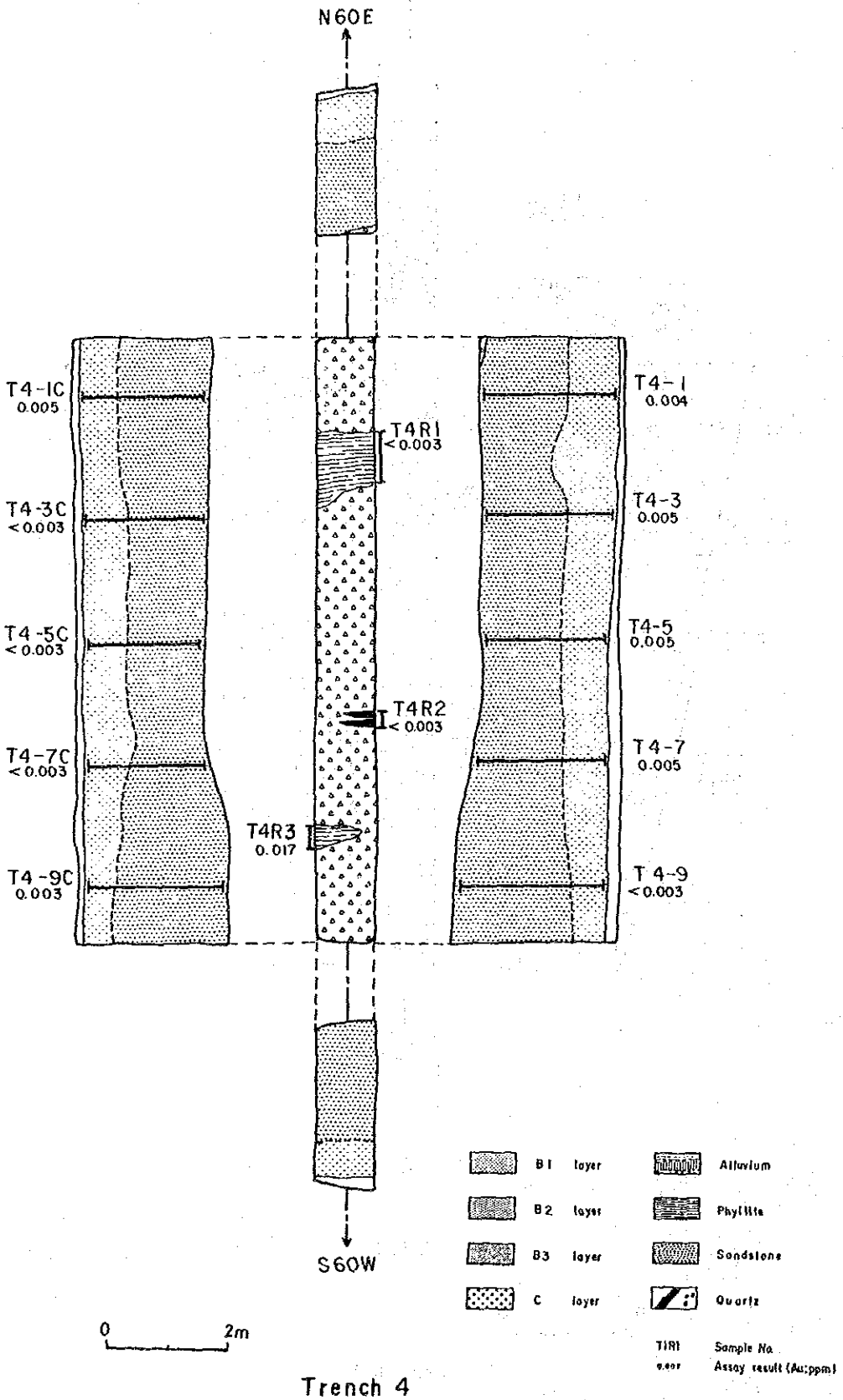


Fig. A–1 Sketch map of trenches in the Area a-1 (2)



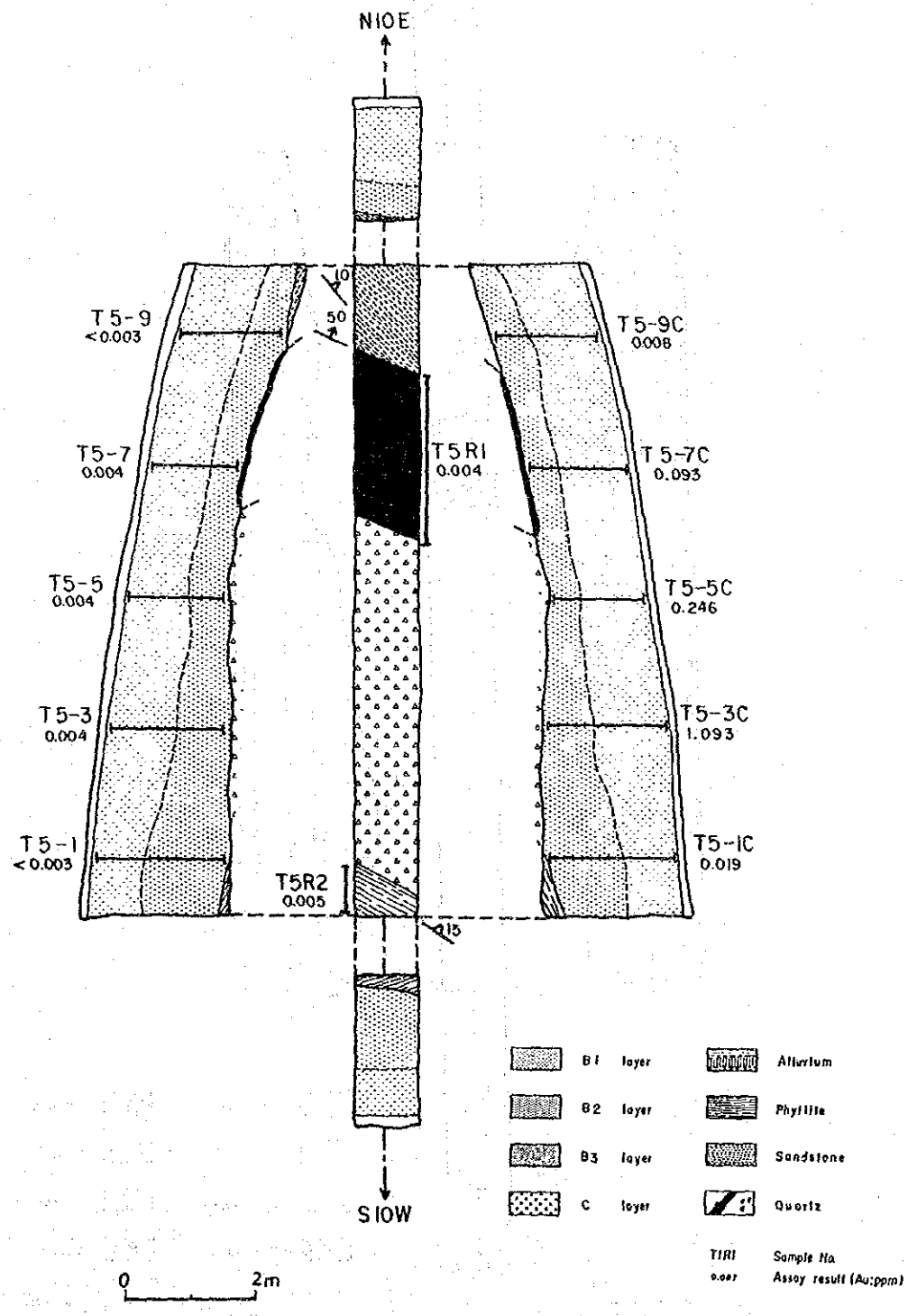
Trench 3

Fig. A–1 Sketch map of trenches in the Area a-1 (3)



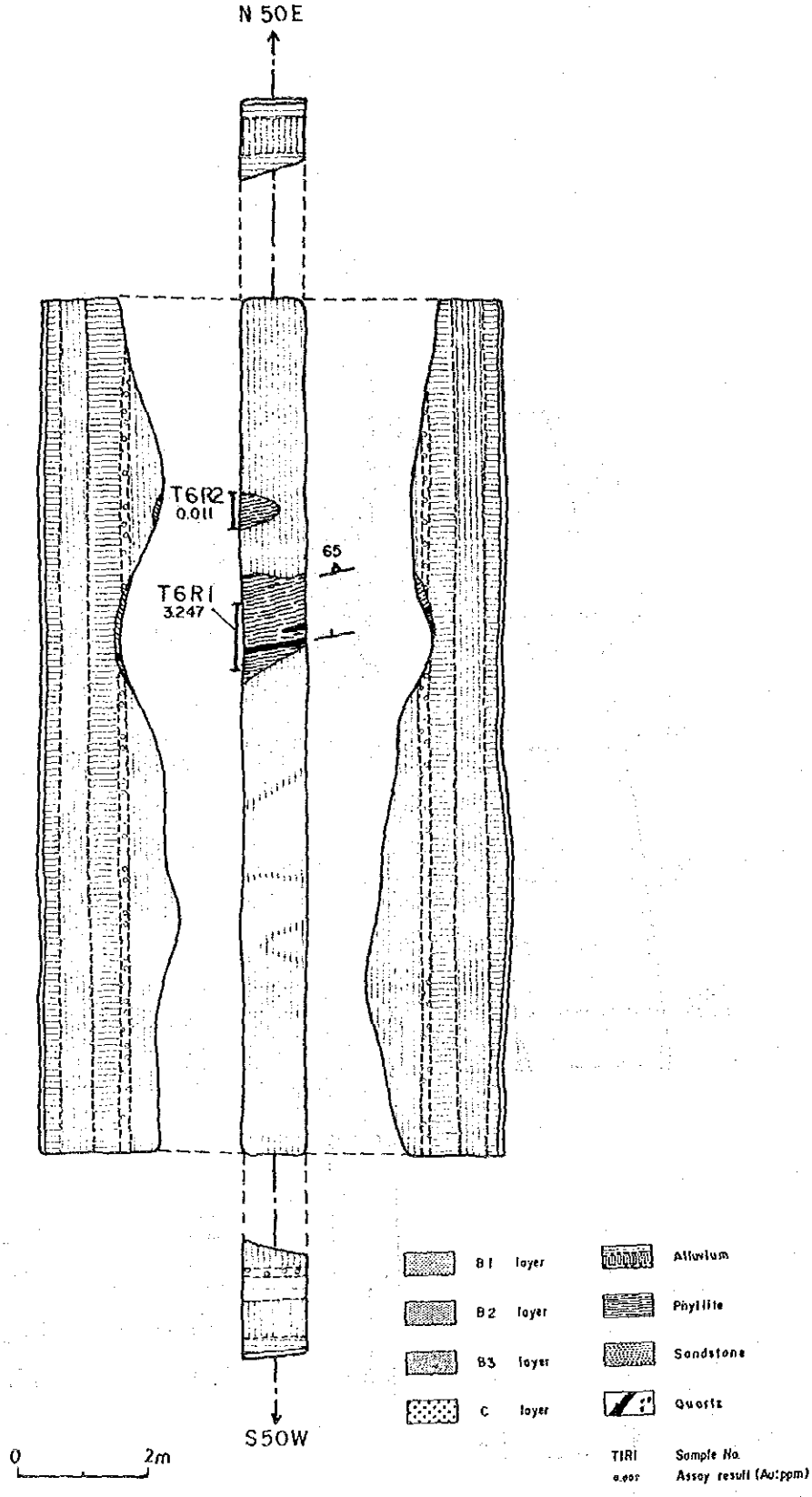
Trench 4

Fig. A–1 Sketch map of trenches in the Area a-1 (4)



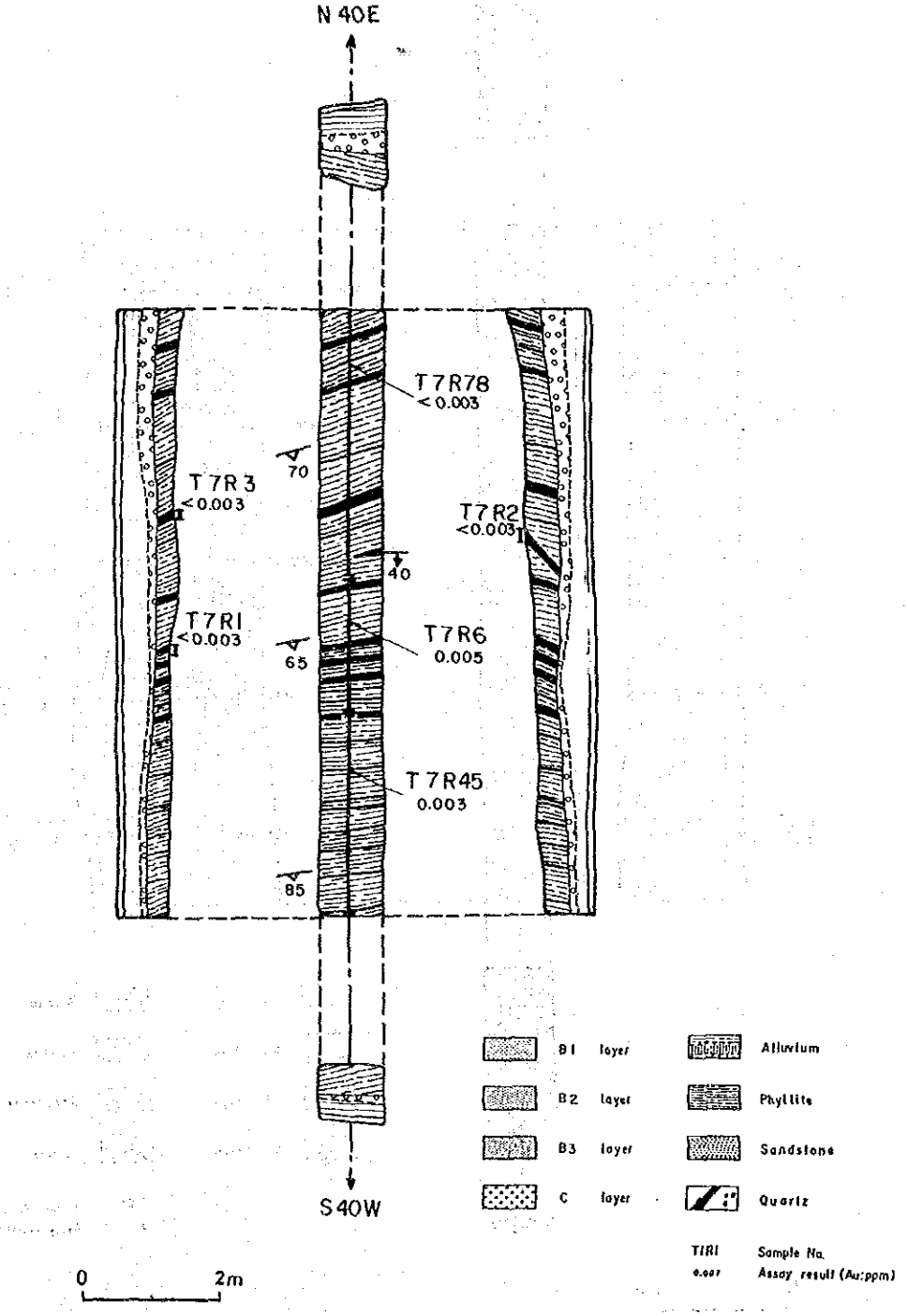
Trench 5

Fig. A–1 Sketch map of trenches in the Area a-1 (5)



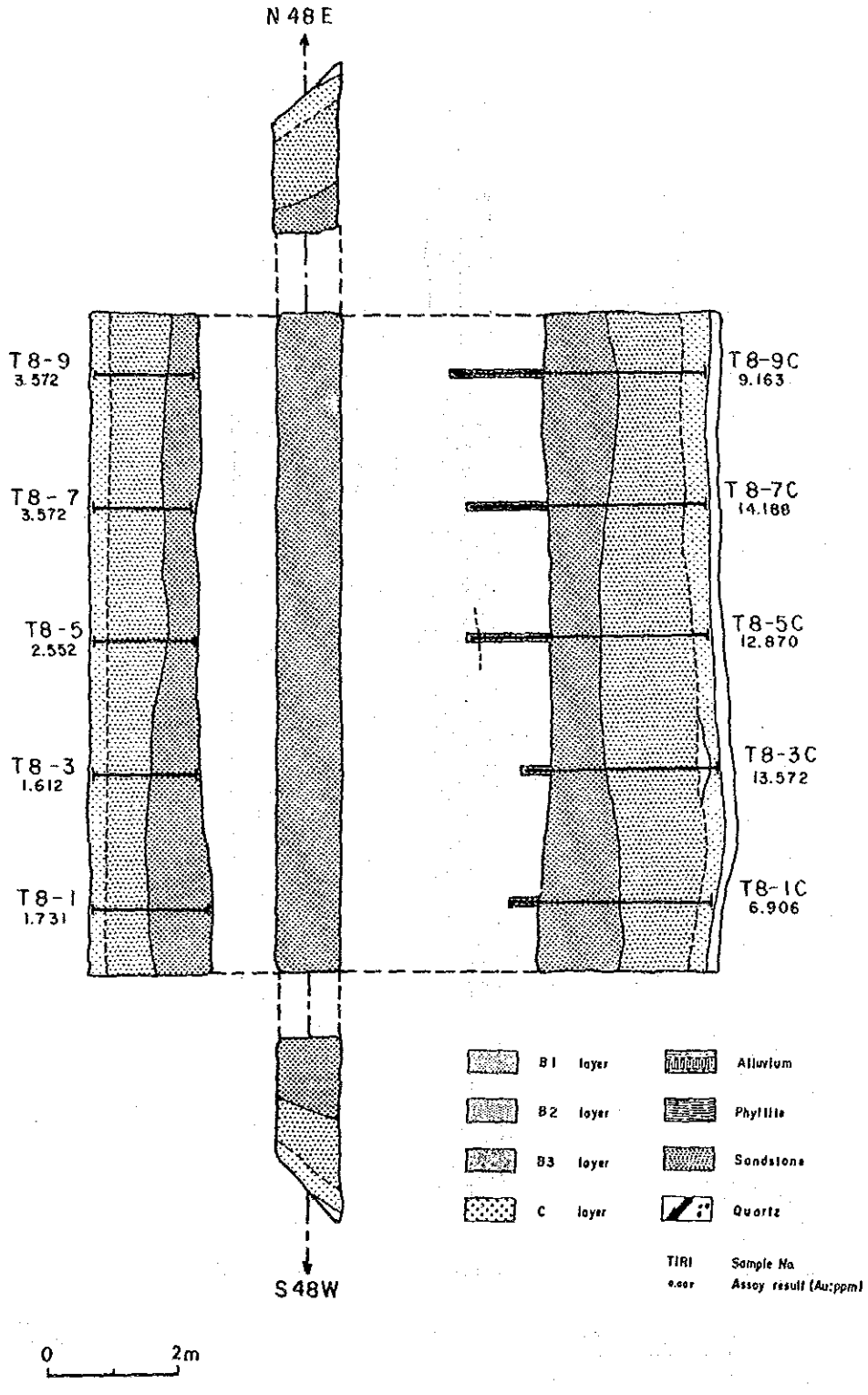
Trench 6

Fig. A–1 Sketch map of trenches in the Area a-1 (6)



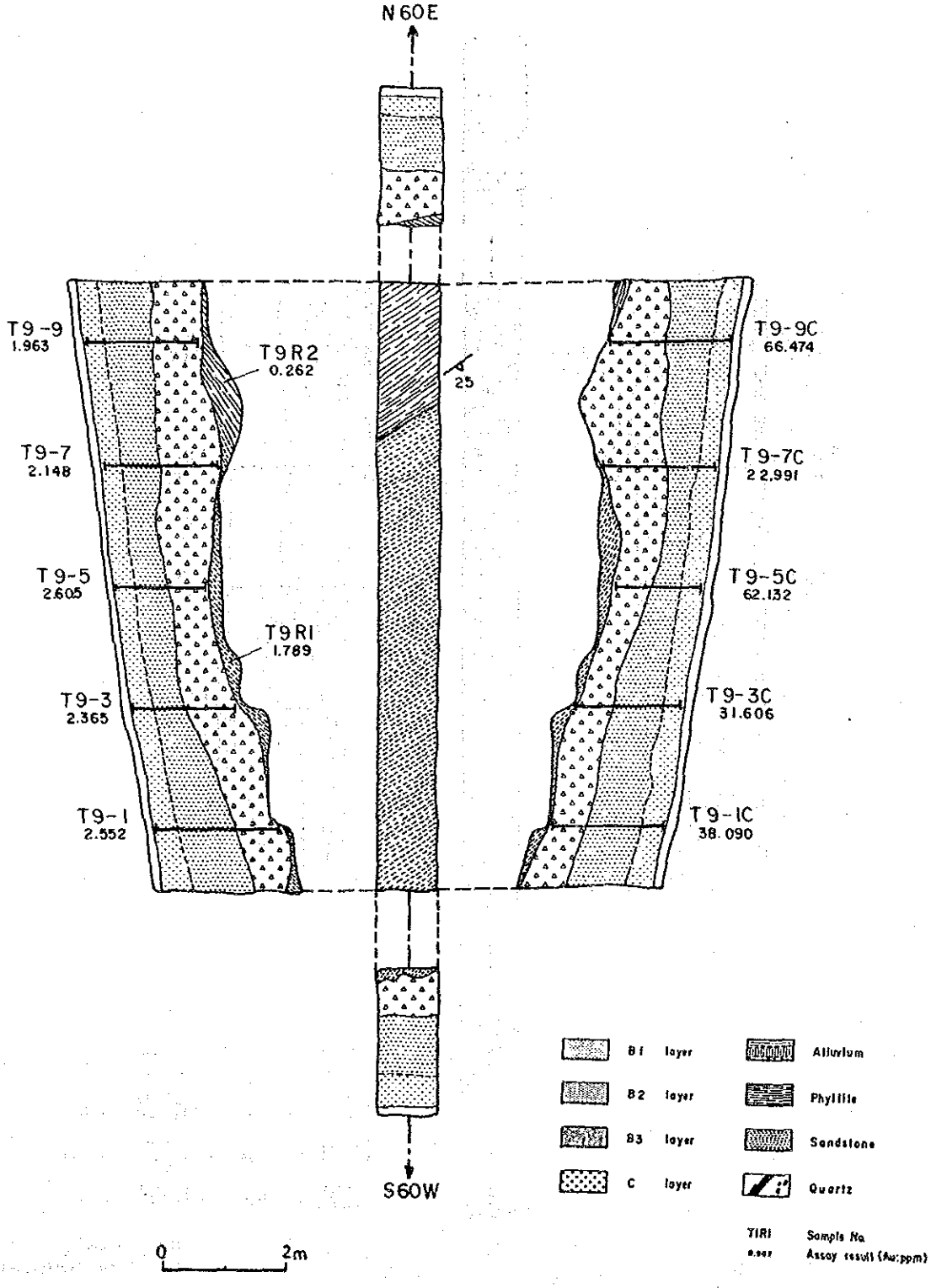
Trench 7

Fig. A–1 Sketch map of trenches in the Area a-1 (7)



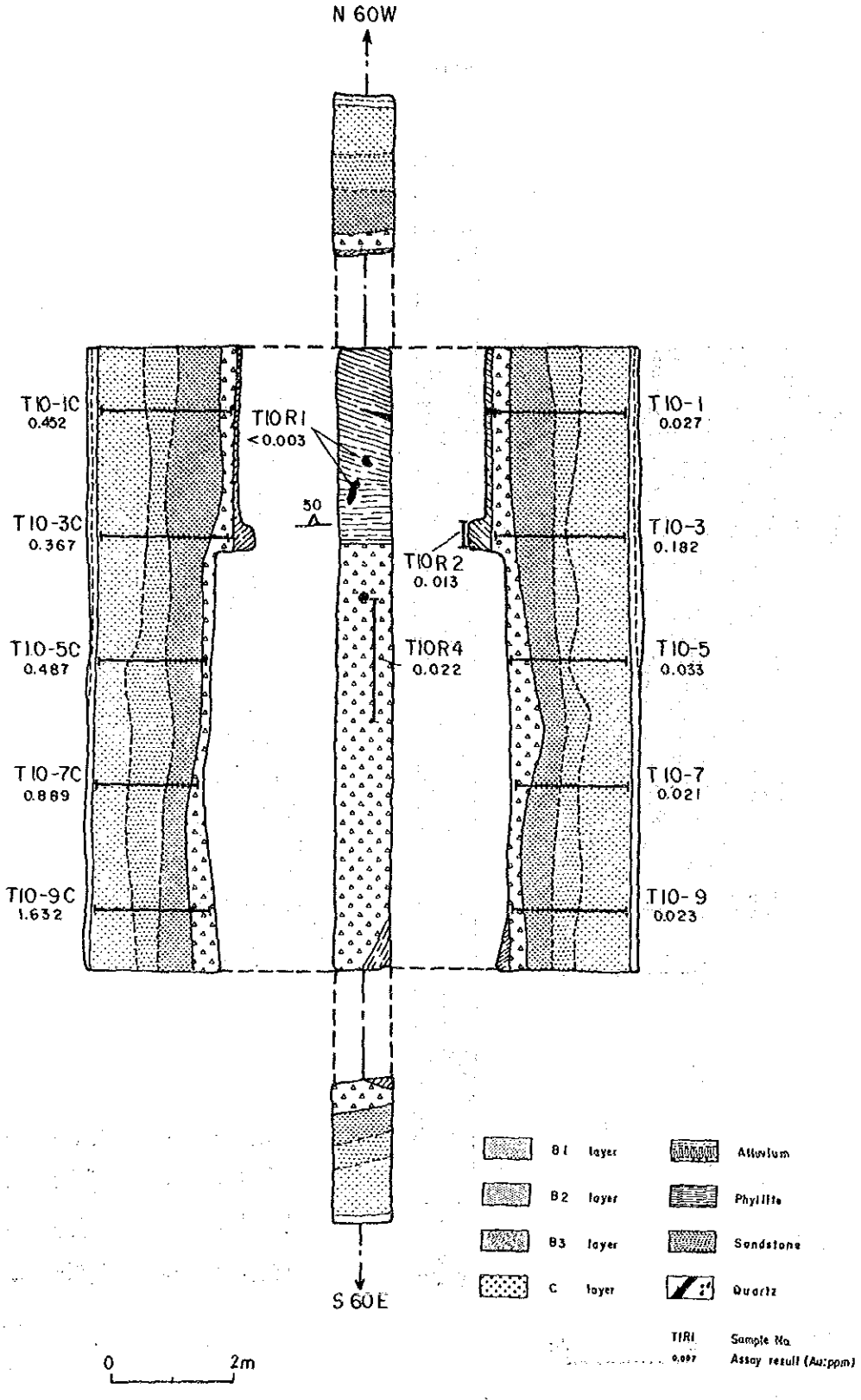
Trench 8

Fig. A–1 Sketch map of trenches in the Area a-1 (8)



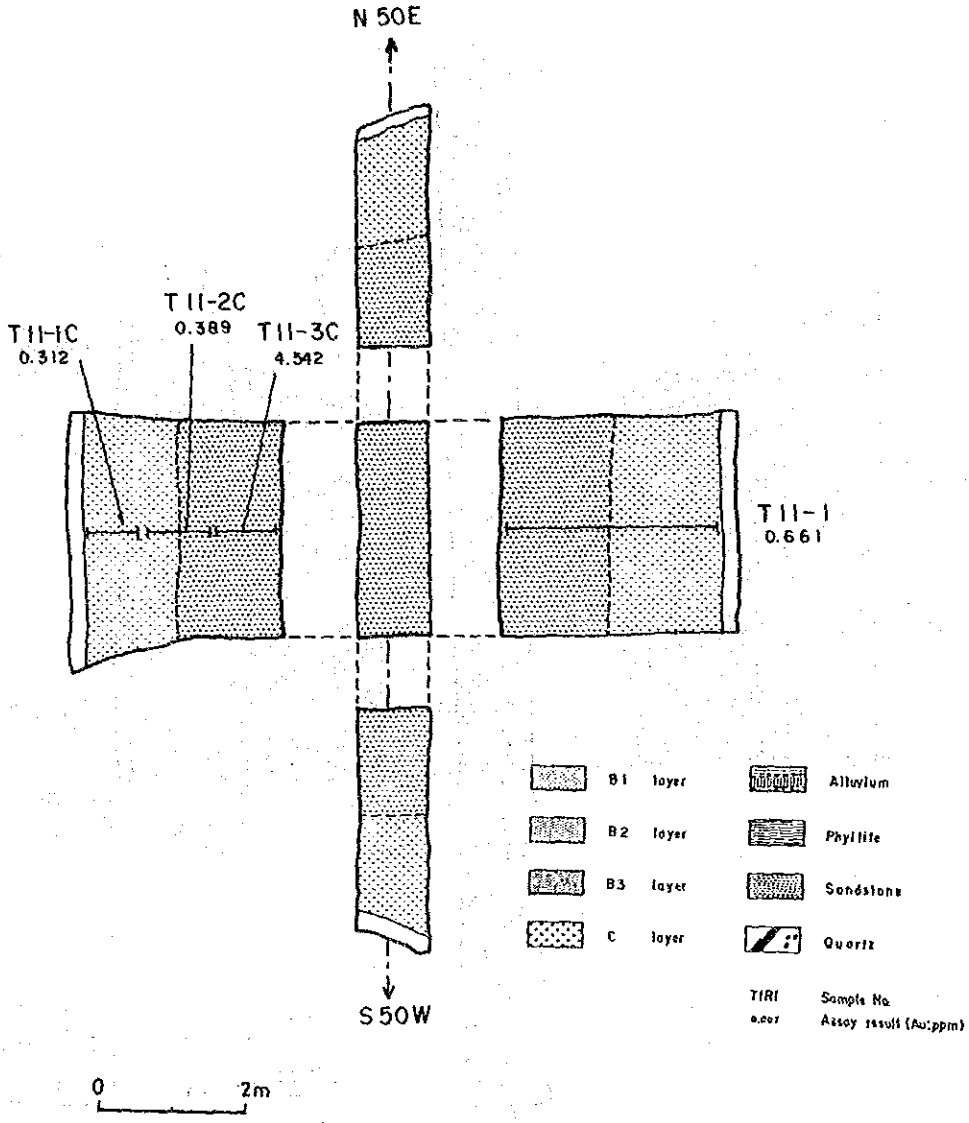
Trench 9

Fig. A–1 Sketch map of trenches in the Area a-1 (9)



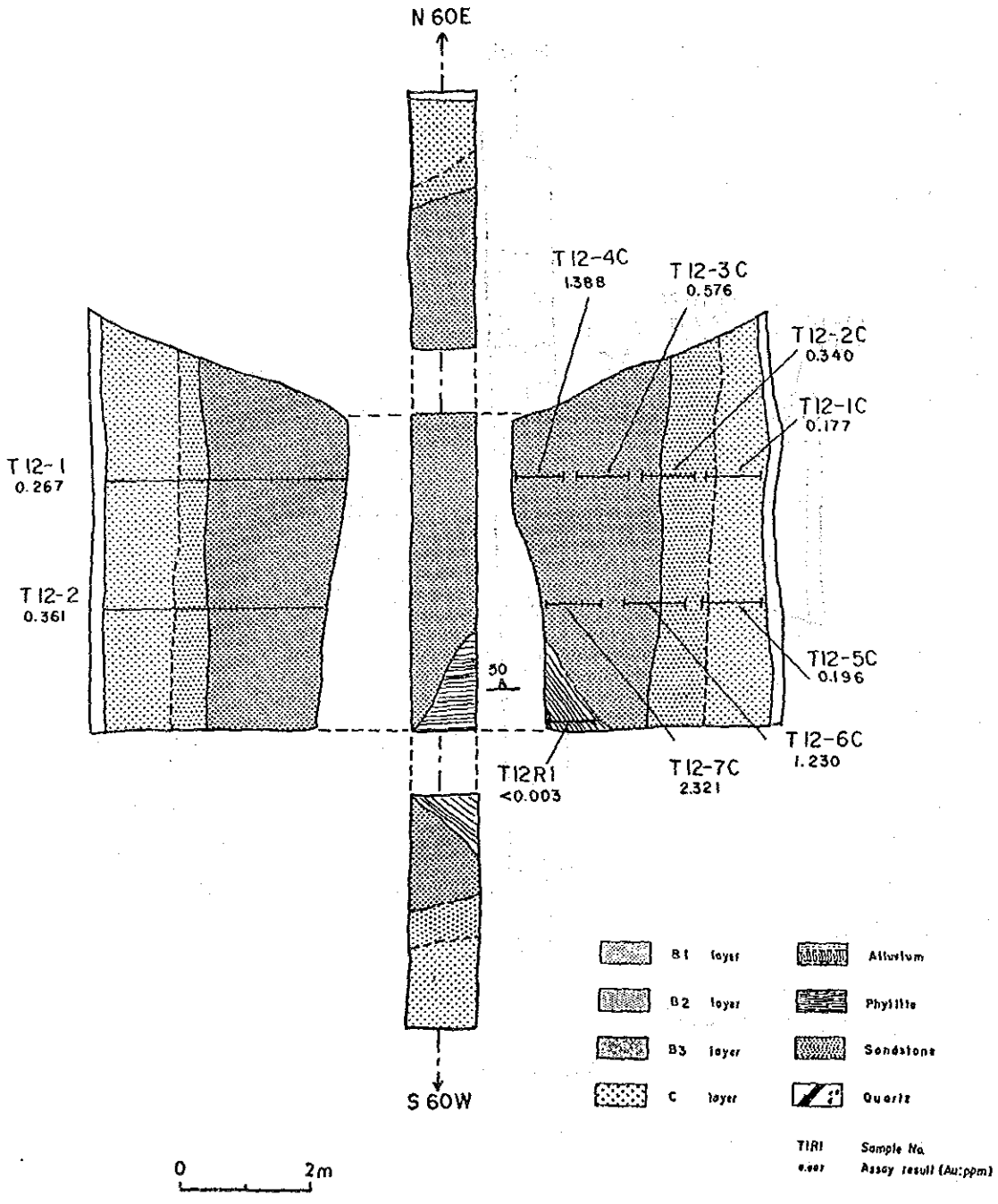
Trench 10

Fig. A–1 Sketch map of trenches in the Area a-1 (10)



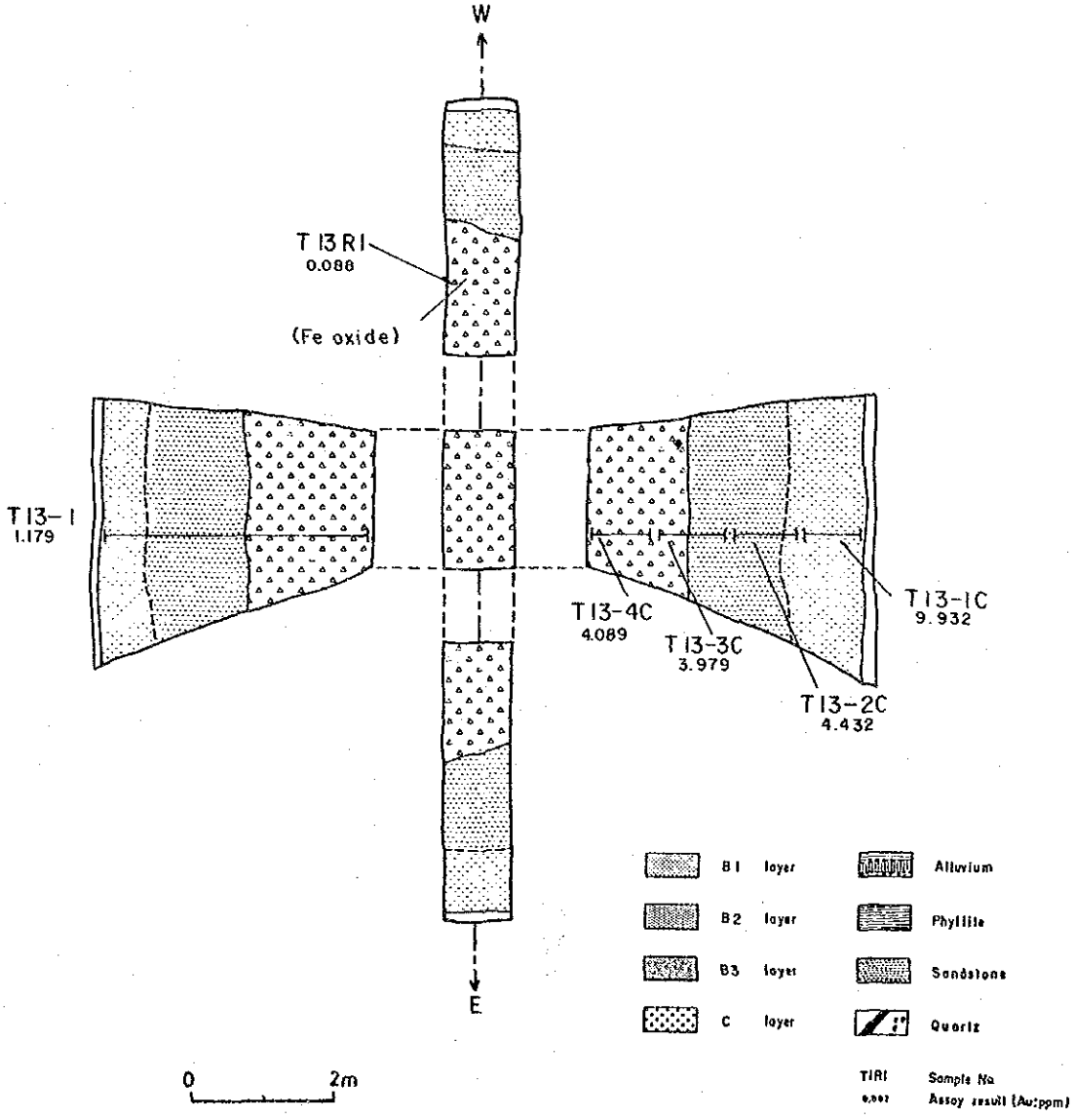
Trench 11

Fig. A–1 Sketch map of trenches in the Area a-1 (11)



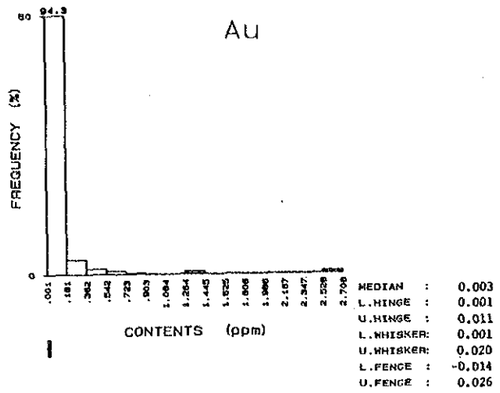
Trench 12

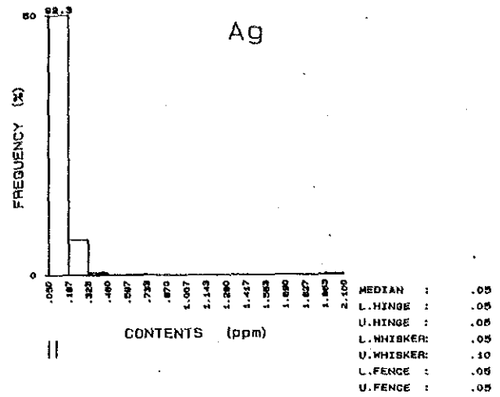
Fig. A–1 Sketch map of trenches in the Area a-1 (12)

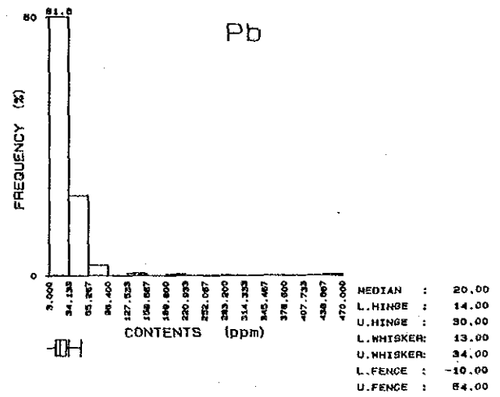


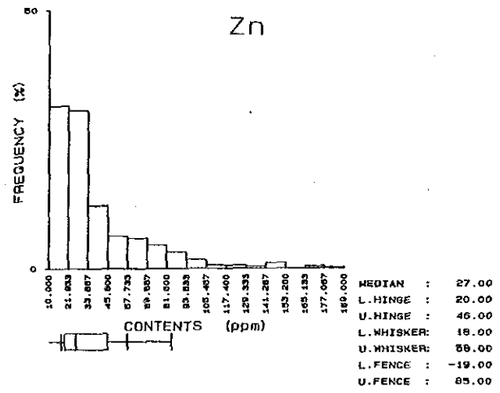
Trench 13

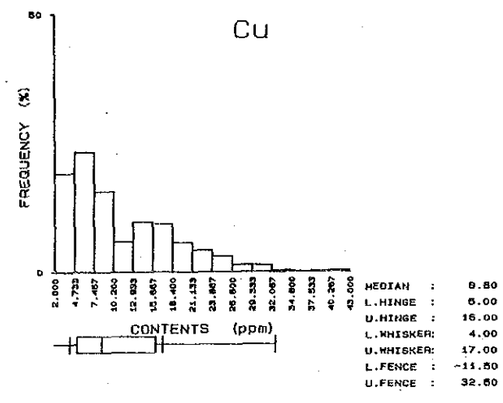
Fig. A–1 Sketch map of trenches in the Area a-1 (13)

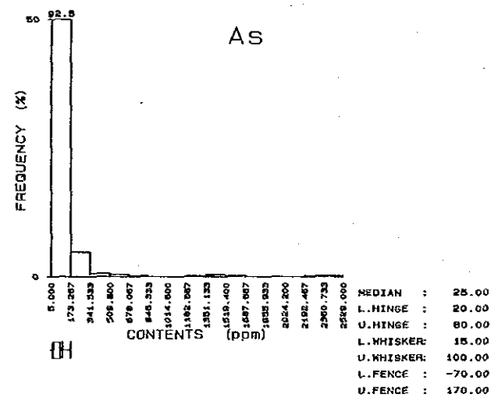


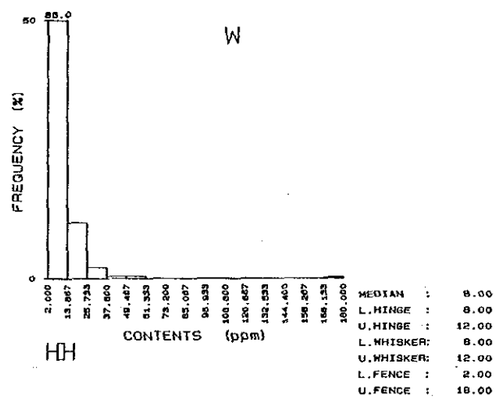


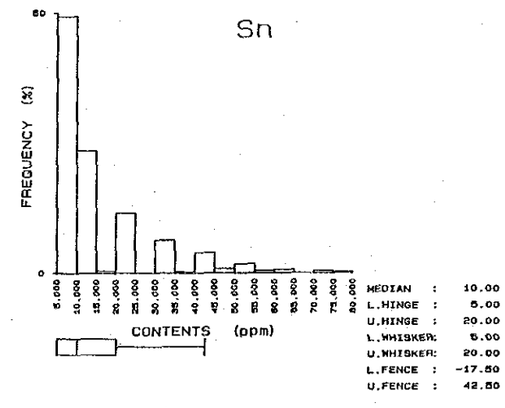


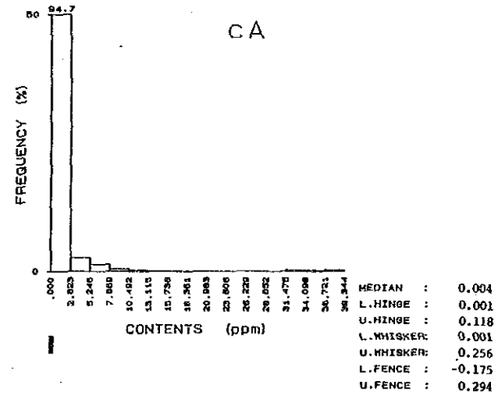






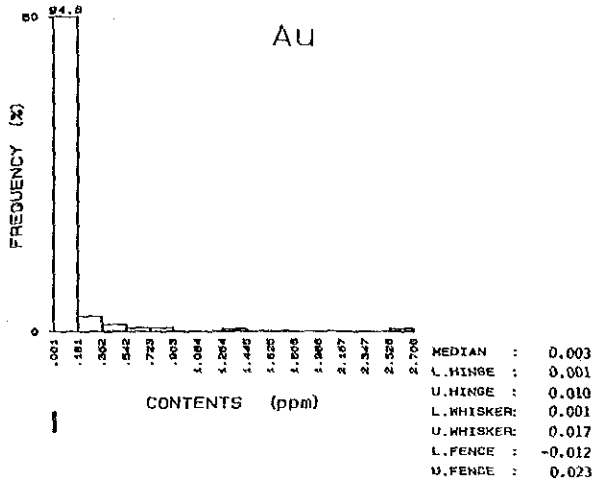


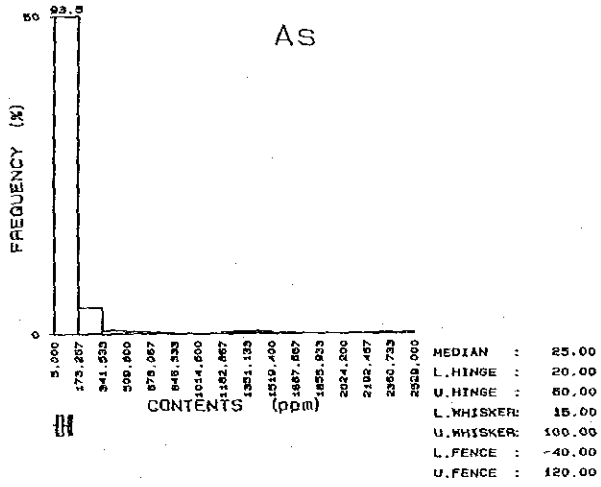


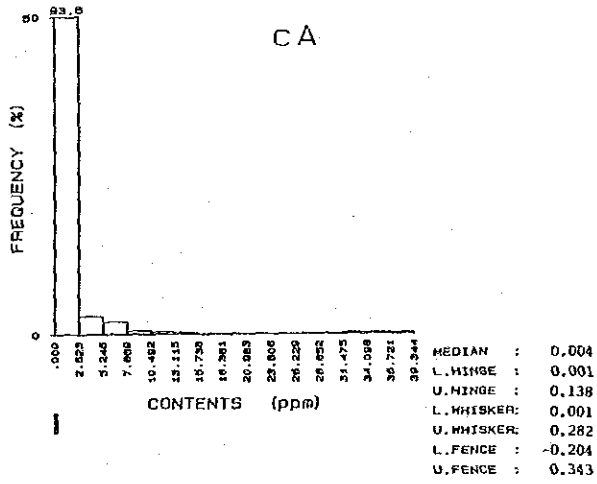


(Soil samples except for alluvium samples)

Fig. A–2 Histogram of elements of soil samples and boxplots in the Area a-1 (1)

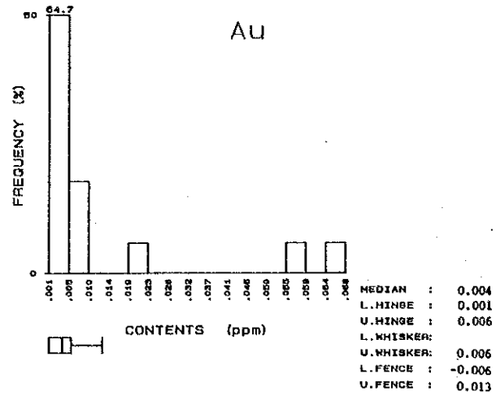


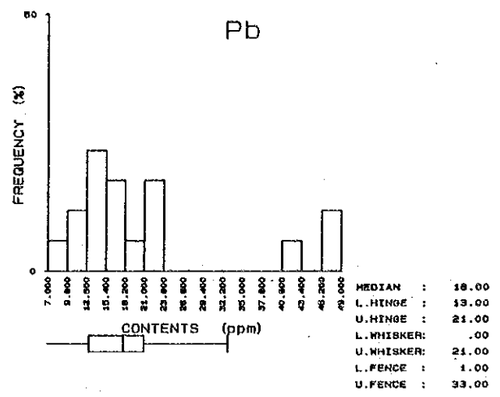


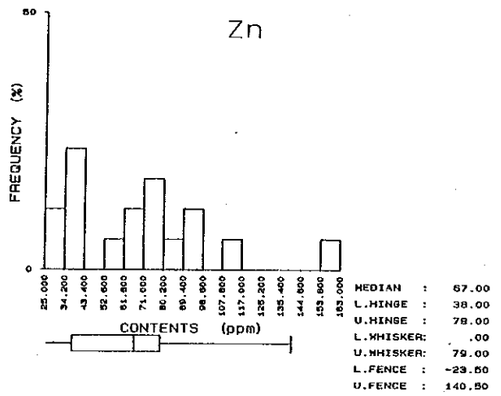


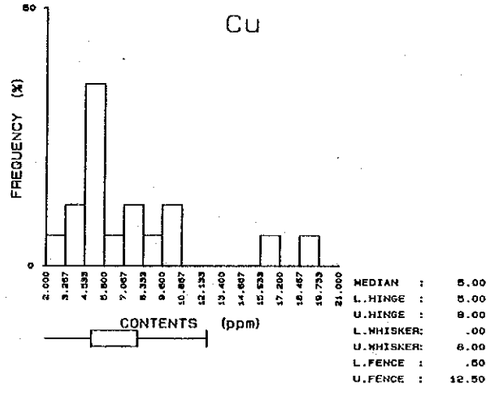
(All samples)

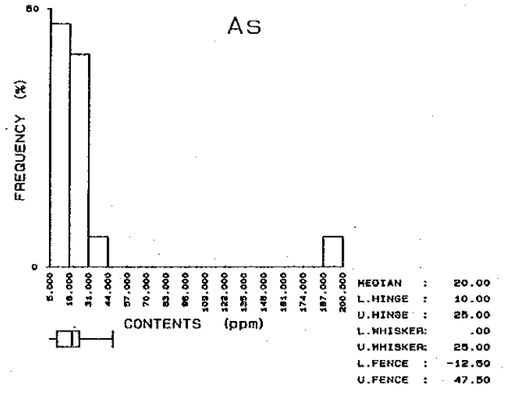
Fig. A–2 Histogram of elements of soil samples and boxplots in the Area a-1 (2)

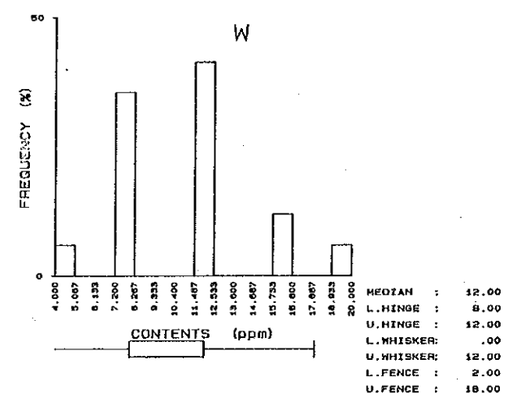


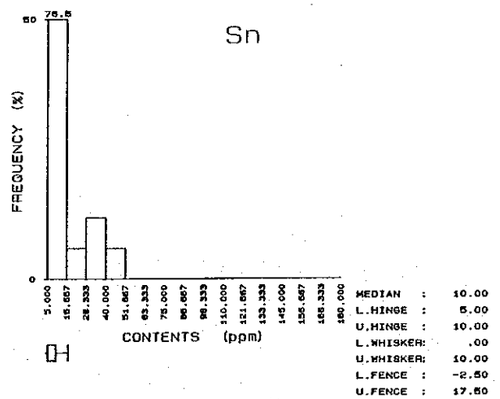


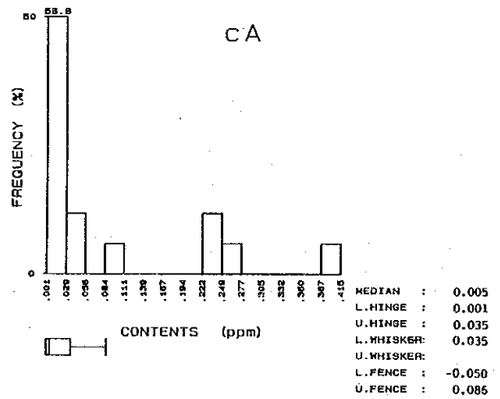






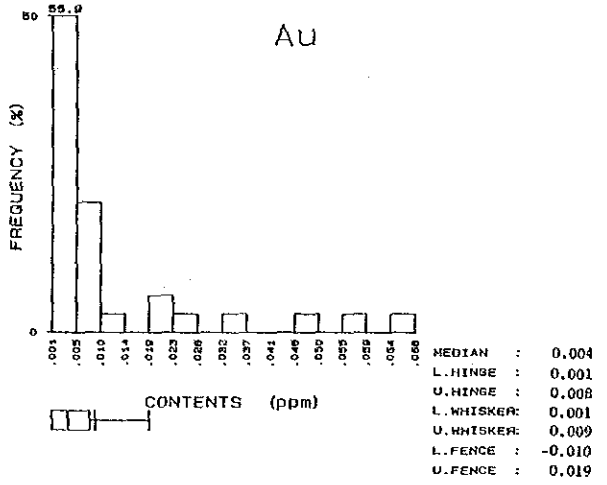


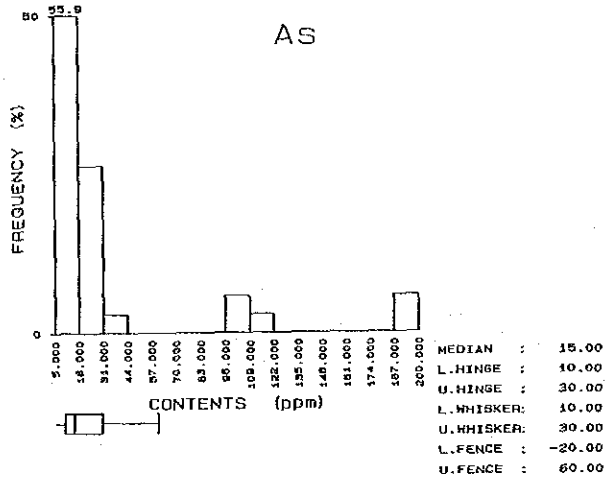


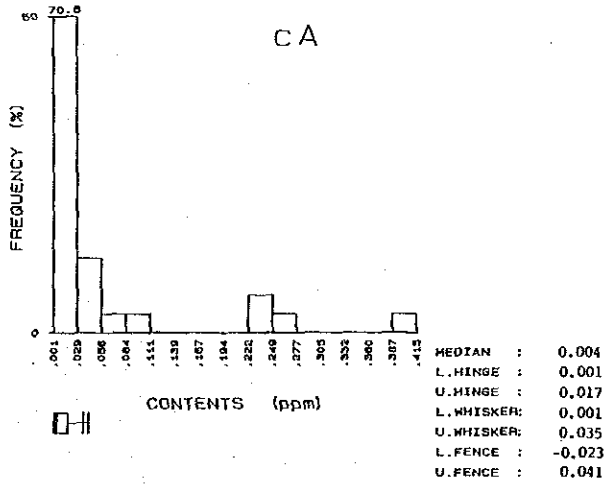


(Soil samples except for alluvium samples)

Fig. A–3 Histogram of elements of soil samples and boxplots in the Area a-2 (1)

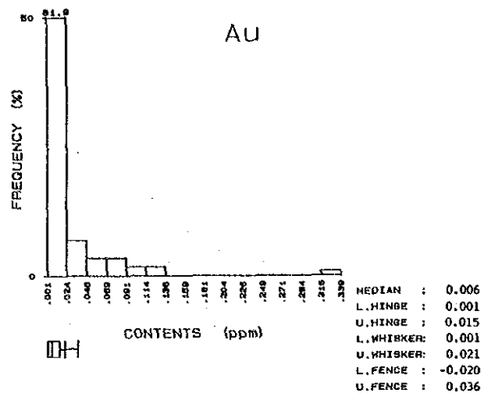


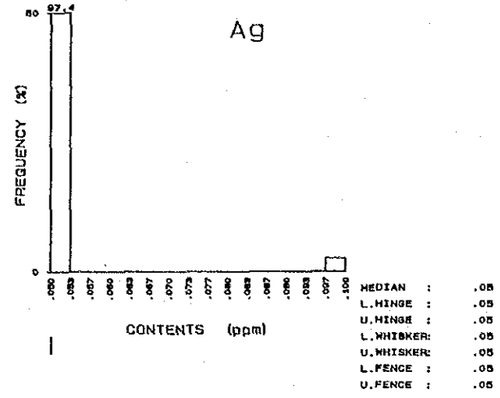


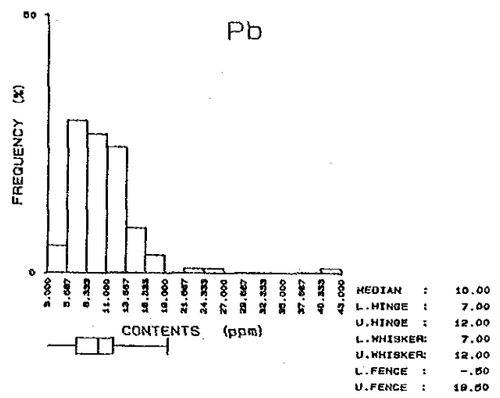


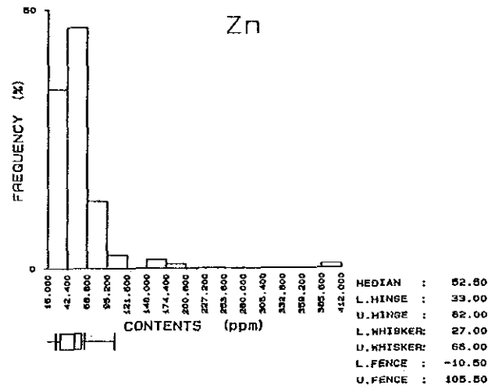
(All samples)

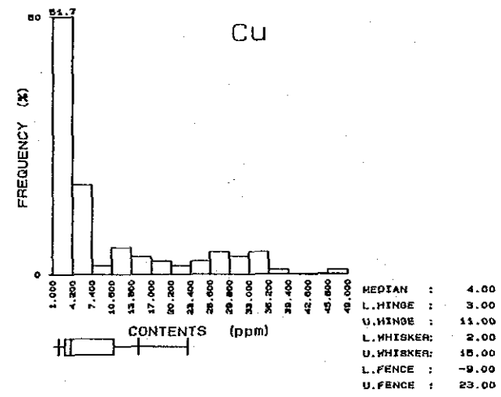
Fig. A–3 Histogram of elements of soil samples and boxplots in the Area a-2 (2)

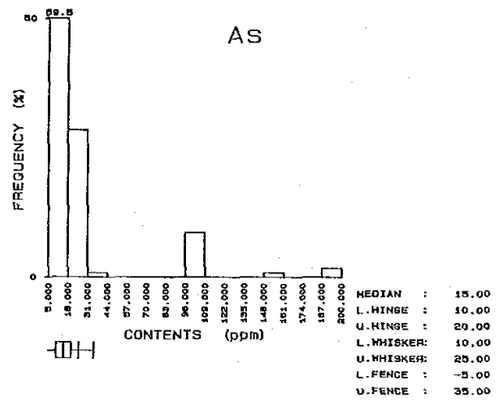


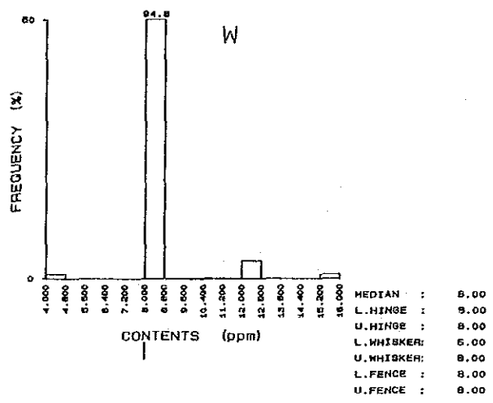


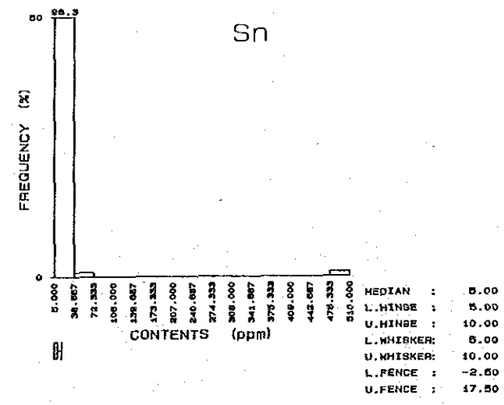


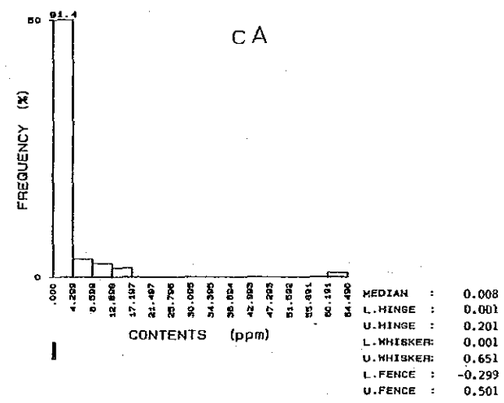






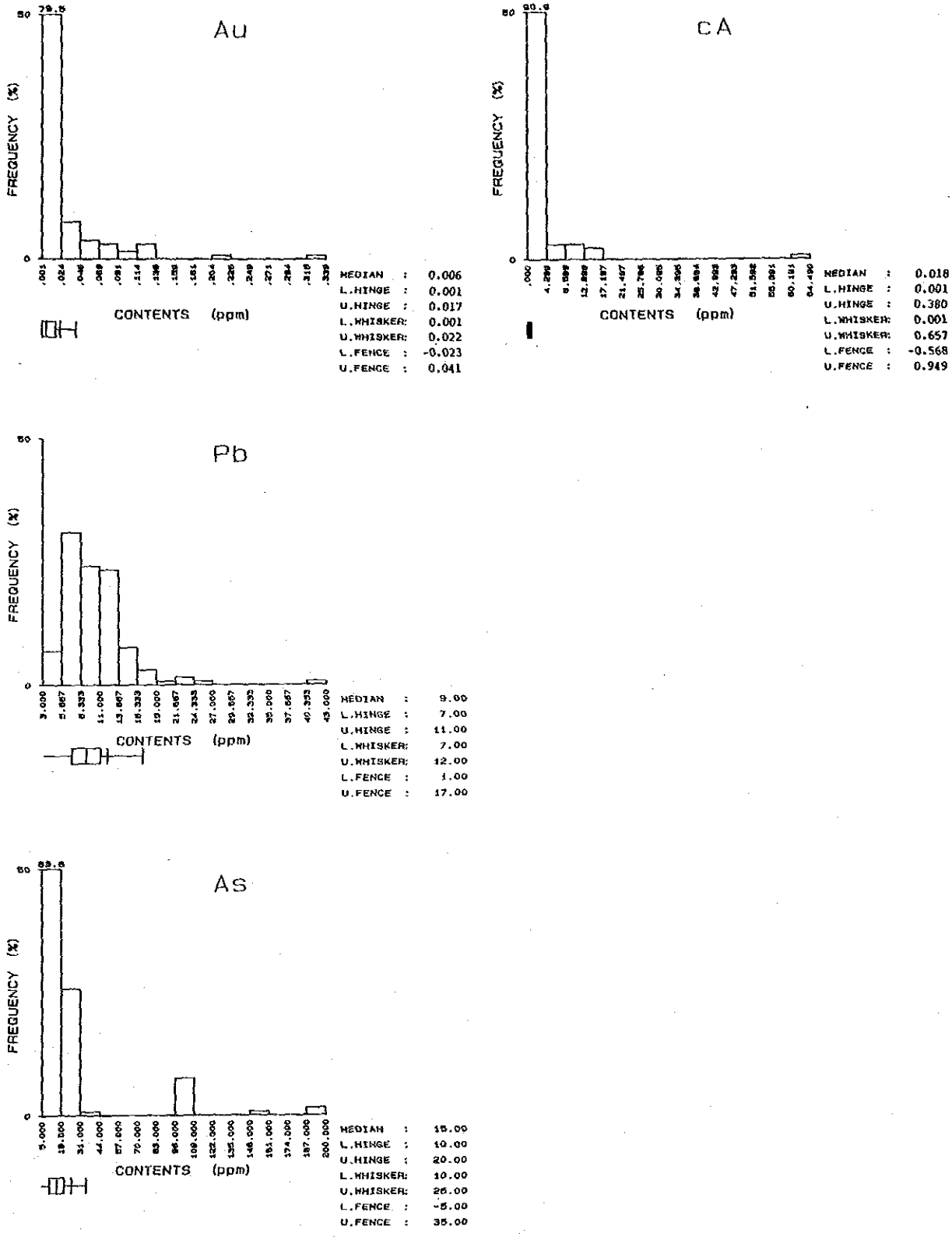






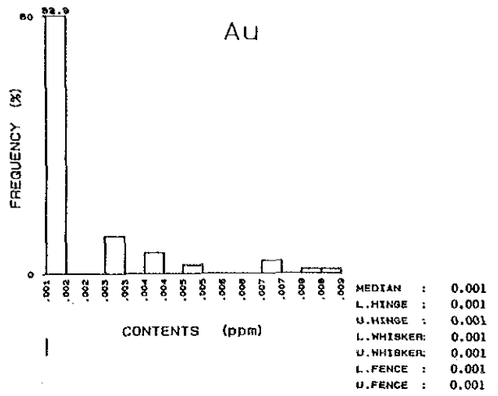
(Soil samples except for alluvium samples)

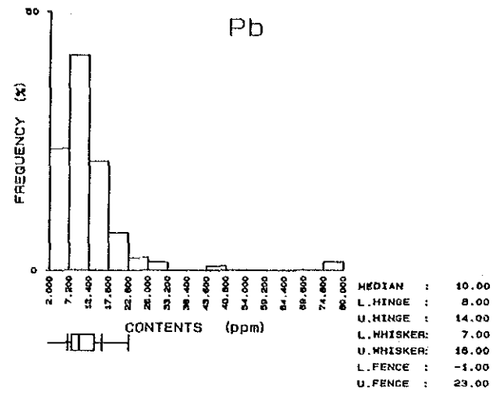
Fig. A–4 Histogram of elements of soil samples and boxplots in the Area a-3 (1)

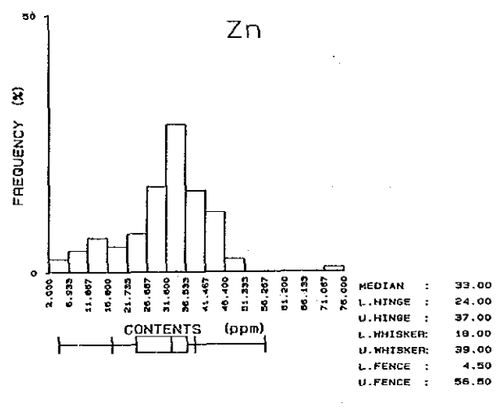


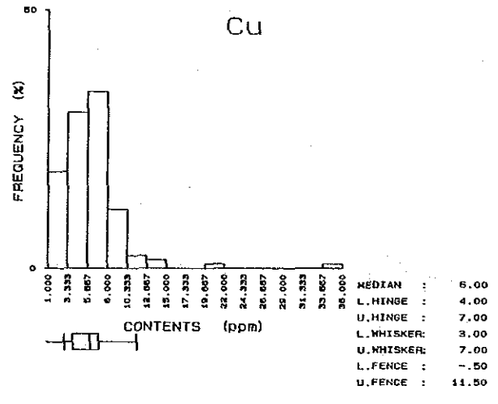
(All samples)

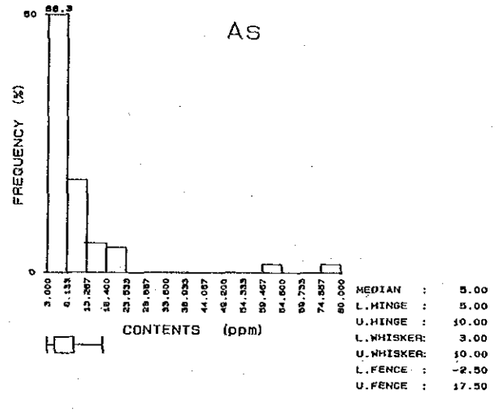
Fig. A–4 Histogram of elements of soil samples and boxplots in the Area a-3 (2)

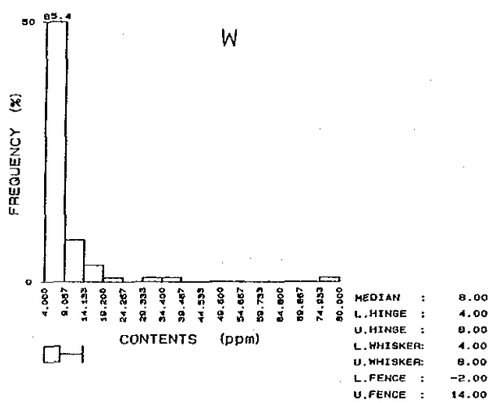












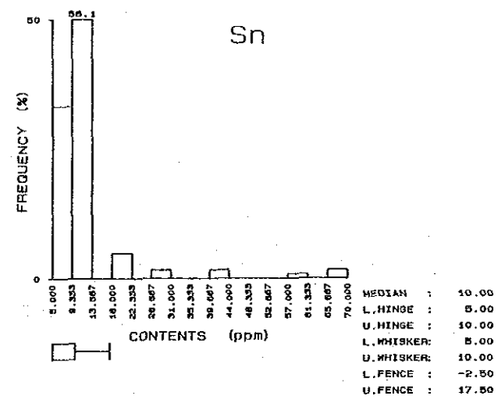


Fig. A–5 Histogram of elements of rock samples and boxplots in the Area c (1)

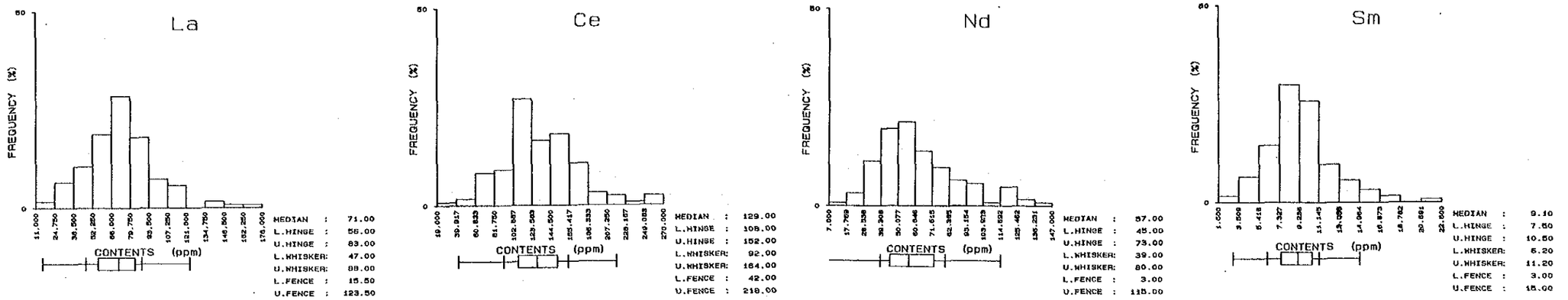
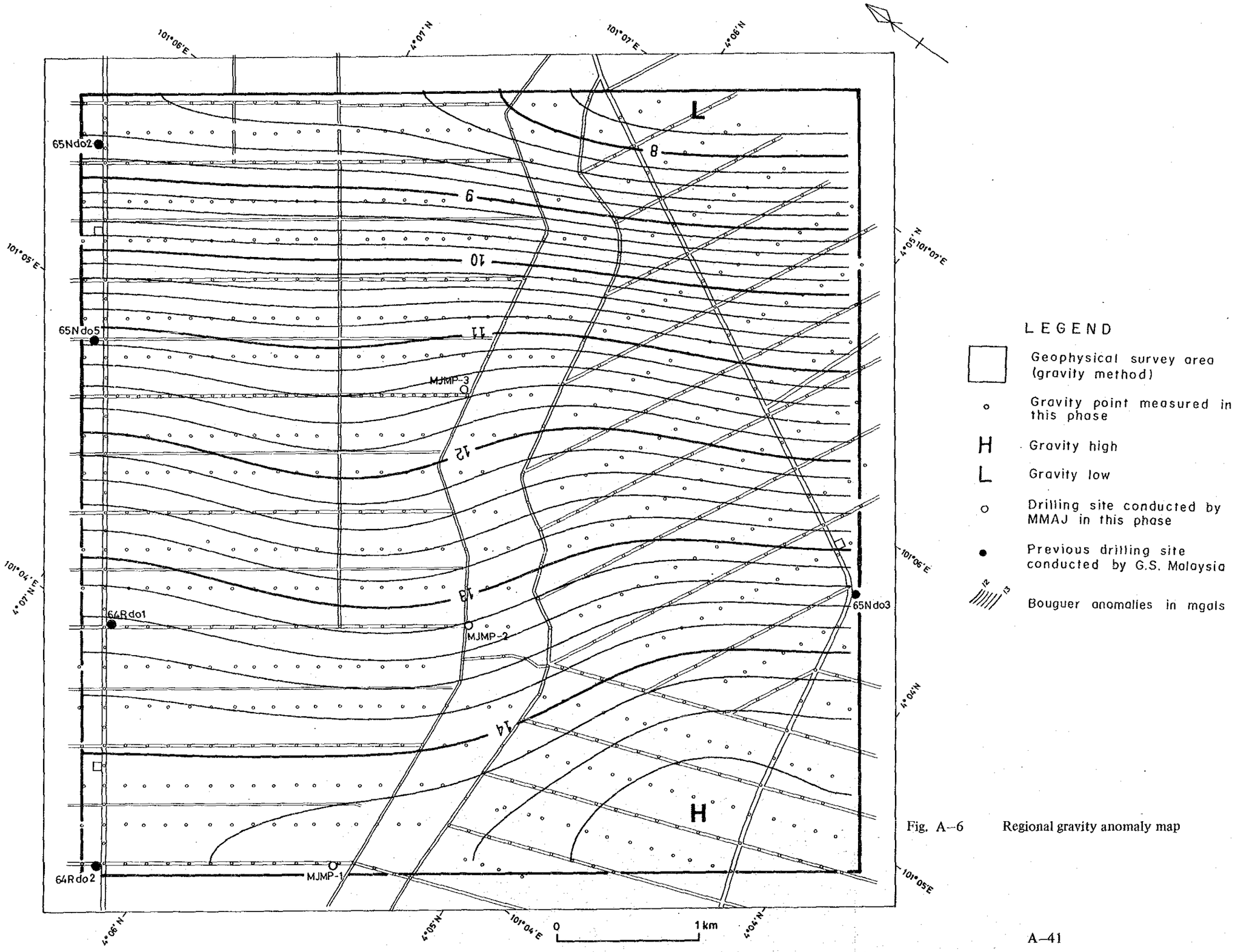


Fig. A–5 Histogram of elements of rock samples and boxplots in the Area c (2)



LEGEND

- Geophysical survey area (gravity method)
- Gravity point measured in this phase
- H Gravity high
- L Gravity low
- Drilling site conducted by MMAJ in this phase
- Previous drilling site conducted by G.S. Malaysia
- 12 13 Bouguer anomalies in mgals

Fig. A–6 Regional gravity anomaly map

Columnar Section of Drill Hole (MJMP-1 (1))

Depth (m)	Geol Log	Description	Core Recov	Assay (ppm) Au	Ag	Cu	Pb	Zn	Sn	W	As
			28.0	tr	tr	tr	tr	0.01	0.27	tr	tr
		brownish black humic clay	28.0	tr	tr	tr	0.01	0.03	1.46	tr	tr
4.6			25.6	0.002	tr	tr	0.01	0.01	0.85	tr	0.01
		dark greenish grey clay marine sediment (?) with many woods	25.6	tr	tr	tr	0.15	0.01	0.49	0.01	0.01
			25.6	tr	tr	tr	0.03	0.01	0.55	0.01	0.01
8.2			54.9	tr	tr	tr	0.25	0.03	0.88	0.01	0.07
9.1											
10.0		grey granules (2mm) with a clayey matrix	70.7	tr	tr	tr	0.42	0.02	0.90	0.01	0.01
11.6			74.7	tr	tr	tr	1.08	0.04	0.96	0.01	0.02
		light bluish grey, plastic clay	113.4	tr	tr	0.01	0.04	0.01	0.11	tr	0.01
13.7		light bluish grey granules (2mm) of angular	64.6	tr	tr	0.01	0.10	0.02	0.29	0.01	0.01
15.2		quartz with a sandy matrix light yellowish orange sand (300-450μ) well sorted	62.2	tr	tr	tr	1.42	0.03	0.34	0.01	0.02
17.4			92.7	tr	tr	0.02	4.22	0.06	1.19	0.13	0.02
20.0			61.0	tr	tr	0.01	0.72	0.02	0.43	tr	0.01
		light yellowish orange to light grey, slightly sandy clay.	79.3	tr	tr	0.02	0.19	0.04	0.35	tr	0.01
			61.0	tr	tr	tr	0.17	0.06	0.45	tr	0.01
			82.9	tr	tr	tr	0.04	0.04	0.10	tr	tr
			42.7	tr	tr	tr	0.26	0.07	0.62	0.01	0.01
27.4			74.4	tr	tr	tr	0.12	0.09	0.95	0.01	0.02
28.9		light grey, poorly sorted, coarse sand (950μ)	56.1	tr	tr	tr	0.10	0.08	1.50	tr	0.01
30.0		light grey, sorted medium sand (335μ)	86.6	tr	tr	0.01	0.18	0.07	1.75	0.03	0.01
			70.7	tr	tr	0.01	0.23	0.16	6.44	0.01	0.04
			148.8	tr	tr	0.01	0.30	0.12	4.48	0.03	0.01
33.5			145.1	tr	tr	0.01	0.29	0.08	2.01	0.03	0.01
		light grey, poorly sorted, very coarse sand (1200μ), with many quartz granules (2∿3mm)	92.7	tr	tr	0.01	0.16	0.07	3.09	0.04	0.01
			92.7	0.002	tr	tr	0.21	0.06	2.39	0.02	0.01
40.0			80.5	tr	tr	0.01	0.36	0.09	3.68	0.03	0.02
41.1			76.8	tr	tr	0.02	0.50	0.21	11.89	0.07	0.03
			98.8	tr	tr	0.01	0.41	0.15	0.82	0.04	0.01
		light grey, poorly sorted quartz gravels (3∿4mm) with a micaceous sandy matrix (140μ)	92.7	tr	tr	0.01	0.90	0.12	2.50	0.05	0.03
			89.0	tr	tr	0.01	0.75	0.08	8.80	0.03	0.02
			123.2	tr	tr	0.01	0.39	0.05	1.42	0.04	0.01
47.9			64.6	tr	0.001	0.01	2.70	0.07	4.15	0.03	0.01
48.8		light grey sandy clay									
50.0		light grey, poorly sorted quartz gravels (6mm)	70.7	tr	0.002	0.03	12.47	0.07	12.03	0.04	0.02

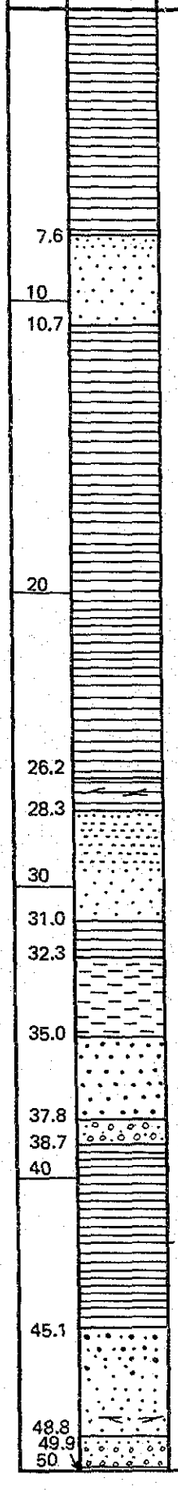
Fig. A-7 Columnar section of drill hole (1)

Columnar Section of Drill Hole (MJMP-1 (2))

Depth (m)	Geol Log	Description	Core Recov	Assay (ppm) Au	Ag	Cu	Pb	Zn	Sn	W	As
50.3			110.9%	tr	tr	0.01	1.57	0.05	3.46	0.07	0.02
		light grey medium to very coarse (355-1200μ), graded sand.	114.6	tr	tr	0.01	0.56	0.05	4.69	0.06	0.01
			89.0	tr	tr	0.01	0.35	0.05	3.63	0.06	0.01
			110.9	tr	tr	0.01	1.15	0.05	4.16	0.05	0.01
			86.6	tr	tr	0.01	0.45	0.05	8.76	0.07	0.02
58.5			110.9	tr	tr	0.01	0.34	0.08	14.38	0.01	0.02
60.0		light grey quartz gravels (4-8mm) with a sandy matrix, poorly sorted	89.0	tr	tr	0.01	0.41	0.14	29.51	0.02	0.03
			110.9	tr	tr	0.02	0.79	0.26	43.65	0.03	0.05
			76.8	tr	tr	0.02	0.67	0.17	9.42	0.21	0.01
64.0		light grey coarse sand (500μ)	82.9	tr	tr	0.01	0.20	0.05	7.09	tr	0.01
			112.2	tr	tr	0.01	0.39	0.10	22.02	0.02	0.02
67.0			126.8	tr	tr	0.02	0.58	0.29	2.90	0.16	0.04
70.0		light grey ∿ brownish grey gravels (2∿30mm) with a sandy matrix.	92.7	tr	tr	0.02	0.51	0.19	3.46	0.07	0.04
			92.7	tr	tr	tr	0.08	0.05	0.69	0.02	tr
72.2		brownish grey coarse sand (950μ)	110.9	tr	0.001	0.03	0.86	0.63	8.78	0.13	0.09
73.8		dark brown ∿ black peat and brown sand	53.7	tr	tr	0.02	1.17	0.41	18.46	0.18	0.09
			76.8	tr	tr	tr	0.47	0.01	0.15	0.01	tr
76.2		brownish black fine sand (250μ) with brownish black woods	70.7	tr	tr	tr	0.23	0.01	0.19	tr	tr
			68.3	tr	tr	0.01	0.77	tr	0.27	0.01	0.01
80.0			169.5	tr	tr	tr	0.19	0.02	0.72	0.01	tr
81.1		brownish black and brown quartz gravels (6-8mm)	139.0	tr	tr	tr	0.17	0.05	3.42	0.02	0.01
82.9		variegated brown fine sand (180-250μ)	76.8	tr	tr	0.01	0.58	0.26	15.67	0.06	0.01
83.8		brown quartz gravels (1-2.5cm) with a sandy matrix	68.3	0.001	tr	0.02	0.55	0.20	154.74	0.05	0.03
			92.7	0.013	tr	0.03	1.36	0.79	553.66	0.44	0.17
86.9			96.3	0.017	tr	0.01	0.40	0.25	248.64	0.02	0.05
90.0		grey fine to medium sand (180-355μ) with some quartz gravels (4-20mm)	110.4	0.013	tr	tr	0.14	0.02	36,680	tr	0.01
			96.3	tr	tr	tr	0.06	0.01	2.40	0.01	0.01
			126.8	tr	tr	0.02	0.20	0.10	54.38	0.03	0.03
93.0		dark grey quartz gravels (20-35mm)	203.0	0.004	tr	0.04	0.22	0.15	6,900	0.04	0.02
93.6		grey very coarse sand (1800μ)	56.1	0.023	tr	0.03	0.25	0.11	5.24	0.11	0.03
94.5		grey quartz gravels (10-25mm)	49.0	0.002	tr	0.02	0.19	0.14	6.94	0.07	0.03
96.0		light grey siltstone ∿ sandstone (Bedrock)									
98.0											
100.0											

Fig. A–7 Columnar section of drill hole (2)

Columnar Section of Drill Hole (MJMP-2 (1))



Depth (m)	Core Recov	Assay (ppm) Au	Ag	Cu	Pb	Zn	Sn	W	As
	24.4 %	ND	tr	0.01	0.13	0.06	0.28	tr	tr
	31.7	tr	tr	0.01	0.04	0.05	0.25	tr	0.02
	48.8	tr	tr	0.01	0.03	0.02	0.24	0.01	0.01
	56.1	tr	tr	0.01	0.02	0.01	0.15	tr	0.01
	46.3	tr	tr	0.02	0.24	0.08	0.77	0.01	0.09
	24.4	tr	tr	0.01	0.33	0.07	0.43	0.01	0.02
	52.4	tr	tr	0.01	0.42	0.05	0.76	0.01	0.02
	76.8	tr	tr	tr	0.07	0.02	0.07	tr	tr
	91.5	tr	tr	tr	0.01	tr	0.02	tr	tr
	85.4	tr	tr	tr	0.05	0.01	0.06	tr	tr
	102.4	tr	tr	tr	0.01	0.02	0.94	0.01	0.01
	148.8	tr	tr	tr	0.11	0.02	0.10	tr	tr
	92.7	tr	tr	tr	0.03	0.05	0.09	tr	tr
	85.4	tr	tr	tr	0.02	0.06	0.08	tr	tr
	104.9	tr	tr	tr	0.02	0.03	0.04	tr	tr
	86.6	tr	tr	0.02	0.65	3.32	0.84	0.03	0.01
	86.6	tr	tr	tr	0.04	0.05	0.07	tr	tr
	122.0	tr	tr	tr	0.13	0.05	0.13	tr	tr
	46.7	tr	tr	0.01	0.20	0.11	0.25	0.01	0.01
	68.3	tr	tr	tr	0.11	0.14	0.24	0.01	tr
	74.4	tr	tr	tr	0.07	0.14	0.20	0.01	tr
	45.1	tr	tr	tr	0.18	0.25	0.61	0.36	0.01
	24.4	tr	tr	0.01	0.21	0.28	0.85	0.01	0.01
	36.6	tr	tr	0.01	0.25	0.29	2.06	0.03	0.02
	131.7	tr	tr	0.02	0.23	0.39	1.88	0.01	0.01
	91.5	tr	tr	0.01	0.38	0.29	1.66	tr	tr
	101.2	tr	tr	tr	0.25	0.06	0.42	tr	tr
	58.5	tr	tr	tr	0.10	0.12	0.46	tr	tr
	42.7	tr	0.001	0.01	2.29	0.09	1.41	0.01	tr
	18.3	tr	tr	0.02	0.24	0.25	0.67	0.01	0.01
	68.3	tr	tr	0.01	0.26	0.27	3.30	0.02	0.01
	76.8	tr	tr	0.01	0.16	0.23	3.14	0.02	0.01
	52.4	tr	tr	tr	0.15	0.07	1.35	0.01	tr

Fig. A-7 Columnar section of drill hole (3)

Columnar Section of Drill Hole (MJMP-2 (2))

Depth (m)	Geol Log	Description	Core Recov	Assay (ppm) Au	Ag	Cu	Pb	Zn	Sn	W	As
			64.6%	tr	tr	tr	0.03	0.02	0.99	tr	tr
			86.6	tr	tr	tr	0.11	0.04	3.17	0.01	tr
		light grey medium to very caarse sand (250-1500μ)	86.6	tr	tr	tr	0.09	0.04	1.80	0.01	0.01
56.1			86.6	tr	tr	tr	0.10	0.03	3.26	0.01	tr
		brownish grey angular quartz gravels (2-6mm) with a silty matrix	132.9	tr	tr	tr	0.20	0.05	5.55	0.01	0.01
60			74.4	tr	tr	0.02	0.48	0.36	17.30	0.05	0.02
		light grey medium to coarse sand (450-900μ) with a few woods.	89.0	tr	tr	0.02	0.70	0.54	42.94	0.13	0.05
61.6			89.0	tr	tr	0.02	0.52	0.48	67.07	0.10	0.02
		brown, poorly sorted quartz gravels (5∿15mm) with a silty matrix	135.4	tr	tr	0.03	1.04	0.82	133.90	0.10	0.04
66.1			89.0	tr	tr	0.06	1.82	1.91	165.27	0.31	0.09
67.0		light grey coarse sand (950μ)	126.8	tr	tr	0.02	0.64	0.66	48.19	0.05	0.02
		brown quartz gravels (1∿3cm) with a sandy matrix, a few woods.	111.0	tr	tr	0.04	0.53	0.49	59.29	0.03	0.01
70			62.2	tr	tr	0.05	0.60	0.59	172.86	0.11	0.03
70.1			64.6	0.004	tr	0.05	0.71	0.63	135.97	0.08	1.36
		dark brown peat	22.0	tr	tr	0.02	0.27	0.34	76.33	0.12	0.15
			46.3	tr	tr	0.02	0.29	0.31	59.64	0.02	0.12
74.7		dark brown quartz gravels (2mm) with a silty matrix									
76.2		white weathered siltstone (Bedrock)	146.9	tr	tr	0.04	1.81	0.80	101.24	0.07	0.06
76.5											
80											

Fig. A–7 Columnar section of drill hole (4)

Columnar Section of Drill Hole (MJMP-3)

Depth (m)	Geol Log	Description	Core Recov	Assay (ppm) Au	Ag	Cu	Pb	Zn	Sn	W	As
0			22.0	tr	tr	tr	0.01	0.01	0.08	tr	tr
		light grey, plastic clay	31.7	tr	tr	tr	0.02	0.02	0.17	tr	tr
4.9			93.9	tr	tr	tr	tr	tr	0.01	tr	tr
5.5		light bluish grey medium sand (400μ)	85.4	tr	tr	0.01	0.11	0.03	0.14	tr	tr
6.4		light bluish grey silty clay	127.6	tr	tr	tr	0.02	tr	0.03	tr	tr
			67.1	tr	tr	tr	tr	tr	0.03	tr	tr
10.0		light grey, poorly sorted sand. graded from medium (350μ) to coarse (950μ)	101.2	tr	tr	tr	0.04	tr	0.10	tr	tr
			62.2	ND	tr	tr	0.07	tr	0.07	tr	tr
			70.7	tr	tr	tr	0.30	0.01	0.19	tr	tr
15.2			124.0	tr	tr	tr	0.16	0.01	1.29	tr	tr
			64.6	ND	tr	tr	0.26	0.01	0.11	tr	tr
			54.9	ND	tr	tr	0.14	0.02	0.08	tr	tr
		light grey, plastic clay	86.6	ND	tr	0.02	0.05	0.08	0.03	tr	tr
20.0			46.3	ND	tr	tr	0.29	0.05	0.12	tr	tr
22.3			117.1	tr	tr	tr	0.47	0.04	0.18	tr	tr
			99.2	tr	tr	0.01	0.27	0.04	0.16	tr	tr
		light grey, coase sand (750μ) with a few angular quartzite granules	195.1	tr	tr	0.01	1.23	0.12	0.53	0.01	tr
			136.2	tr	tr	tr	0.37	0.06	0.20	tr	tr
28.0			92.7	tr	tr	tr	0.21	0.04	0.37	tr	tr
29.0		greyish yellow brown silt	46.3	tr	tr	tr	0.69	0.06	0.69	0.01	tr
30.0			62.2	tr	tr	tr	0.26	0.04	0.42	0.02	tr
			69.5	tr	tr	tr	0.46	0.06	2.07	0.03	tr
		light grey, graded sand (350μ∿1500μ)	42.7	tr	tr	tr	0.46	0.09	5.20	tr	tr
34.7			48.8	tr	tr	0.01	1.25	0.07	5.30	0.01	0.01
35.0		gravels of quartz (1-3cm) with a sandy matrix	80.5	tr	tr	tr	0.17	0.09	0.93	0.01	tr
		light grey, plastic clay with mony quartzite and sandstone granules	46.3	tr	tr	tr	0.22	0.04	0.59	tr	tr
39.0			68.3	tr	tr	tr	0.14	0.05	0.71	tr	tr
40.0		light grey, medium (350μ) sand	56.1	tr	tr	tr	0.25	0.08	0.72	tr	tr
41.1		light grey granules (2-4mm) with sandy matrix	91.5	tr	tr	tr	0.25	0.07	0.36	tr	tr
42.4		greyish yellow brown, plastic clay with quatz gravels (2-4mm)	68.3	tr	tr	0.02	0.76	0.08	0.88	0.01	tr
44.2			70.7	tr	tr	tr	0.37	0.03	1.56	tr	0.01
		light grey gravels mostly of angular quartz gravel sizes increase up to 2cm toward depth.	70.7	tr	tr	tr	0.69	0.01	3.76	0.02	tr
50.0			86.6	tr	tr	tr	0.64	0.03	3.07	tr	tr
50.3			70.7	tr	tr	0.01	0.99	0.02	1.84	tr	tr
		light grey gravels (2mm) with angular gravels (1-2cm) quartz.	64.6	tr	tr	0.01	0.64	0.07	4.39	0.01	tr
54.3		light grey fine sand (250μ)	56.1	tr	tr	0.01	0.60	0.11	8.35	0.01	0.01
54.8			80.5	0.001	tr	0.01	0.13	0.07	11.39	0.01	0.01
		light grey gravels (1x1cm∿2.5x4cm) of quartz, siltstone and sandstone. gravel sizes increase toward depth	68.3	tr	tr	0.02	0.22	0.14	40.99	0.03	0.01
59.4		brownish grey clay with 2x2cm quartz gravels	90.2	0.007	0.002	0.06	0.64	1.38	388.09	0.06	0.04
60.0		brown medium sand	76.8	0.007	0.001	0.05	0.61	0.67	193.58	0.06	0.07
61.0		brownish grey gravels (2x2cm) of angular quartz	80.5	tr	tr	0.01	0.04	0.21	11.51	tr	tr
62.2		dark grey sandstone (Bedrock)									
62.8											

Fig. A–7 Columnar section of drill hole (5)