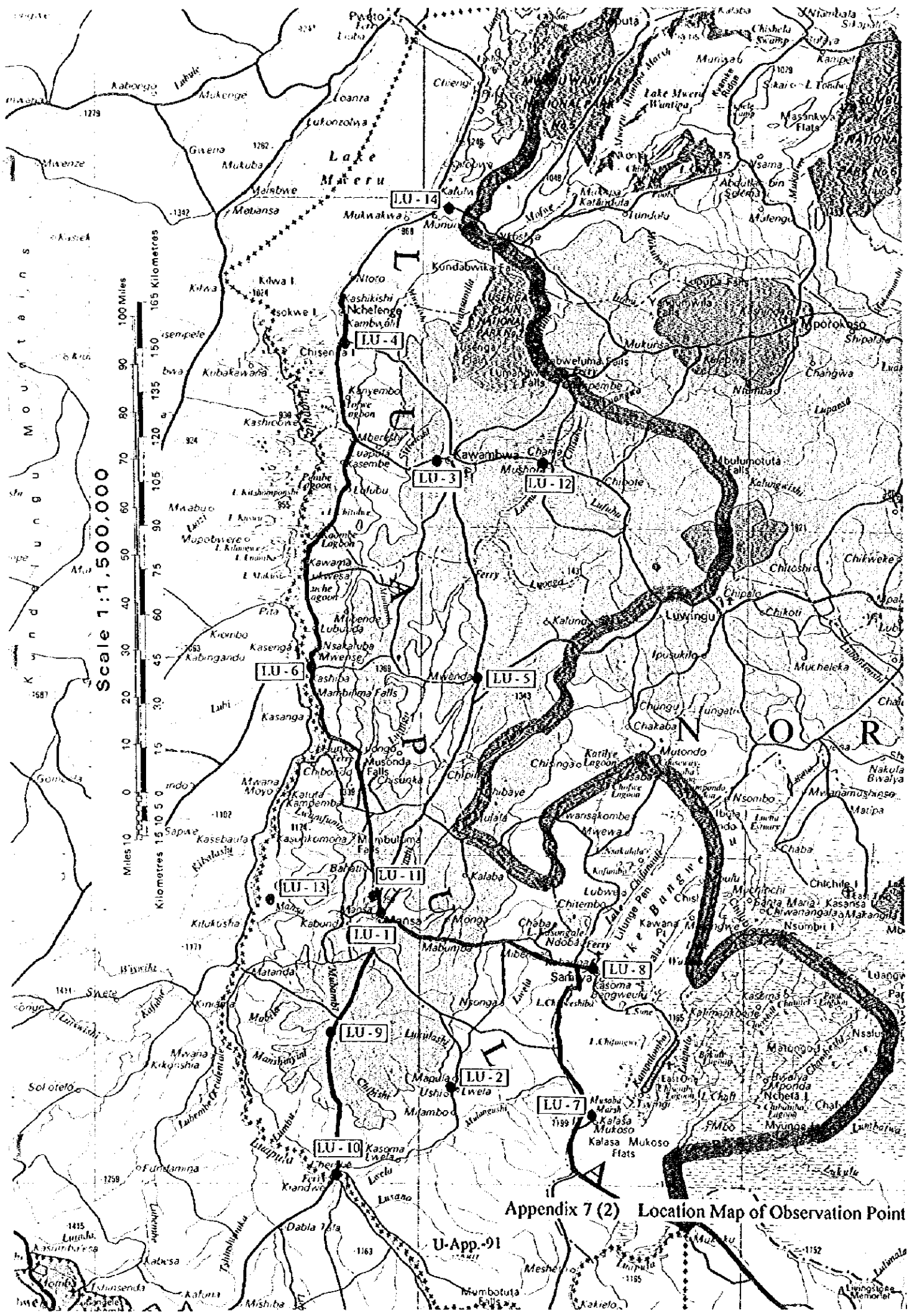


Scale 1:1,500,000

100 Miles
165 Kilometres
90
80
70
60
50
40
30
20
10
0
Miles 10
Kilometres 15 10 5

Appendix 7 (2) Location Map of Observation Point

U-App-91



Appendix 7 (2) Location Map of Observation Point

U-App-91

Appendix 7 (3) Result of Nation-wide Groundwater Level Observation

< Luapula Province >

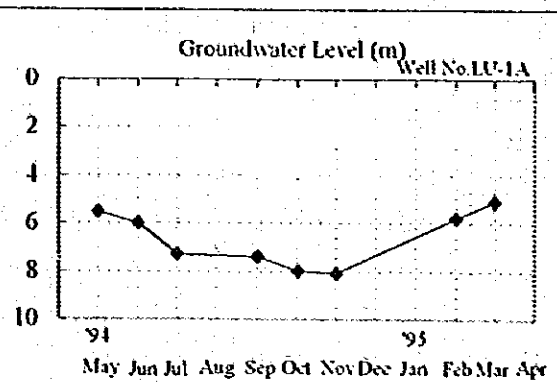
Point No.	Well No.	May. 1995	Jun.	Jul.	Sep.	Oct.	Nov.	Feb. 1995	Mar.
		G.W.D(m)	G.W.D(m)	G.W.D(m)	G.W.D(m)	G.W.D(m)	G.W.D(m)	G.W.D(m)	G.W.D(m)
LU - 1	A	5.54	6.00	7.29	7.39	7.99	8.09	5.79	5.10
	B	4.34	6.79	9.59	9.74	9.84	9.74	3.99	4.50
LU - 2	A	4.19	4.79	5.10	5.15	5.25	dry	3.15	3.70
	B	6.99	8.14	9.04	9.44	10.04	9.94	7.59	5.20
LU - 3	A	4.15	4.41	4.75	5.55	9.05	dry	4.35	4.00
	B	-	7.80	8.20	8.45	8.55	8.50	6.40	4.50
LU - 4	A	13.34	13.66	14.10	13.40	18.20	dry	18.30	12.60
	B	12.22	12.70	13.10	13.12	13.20	dry	8.52	4.87
LU - 5	A	2.77	3.22	3.45	3.70	3.76	3.75	2.80	2.60
	B	2.23	2.58	3.38	3.48	3.53	3.47	1.45	1.40
LU - 6	A	9.58	9.70	11.75	12.70	12.70	12.70	10.90	10.40
	B	.00	7.40	9.20	13.20	13.60	13.60	12.50	8.00
LU - 7	A	1.92	2.50	3.27	3.37	3.37	3.33	2.12	2.30
	B	3.40	4.70	5.50	5.70	5.70	5.65	4.50	4.40
LU - 8	A	10.60	11.55	12.30	12.45	12.55	12.46	10.25	11.00
	B	13.74	13.74	13.84	13.94	14.14	13.94	12.74	13.40
LU - 9	A	-	11.20	11.50	12.60	12.65	12.60	11.00	10.50
	B	-	11.50	11.60	11.60	11.60		9.90	9.70
LU - 10	A	-	1.30	2.05	2.20	3.00	2.50	2.70	.50
	B	-	6.30	6.50	7.30	7.40	6.70	7.40	5.80
LU - 11	A	-	.35	7.50	7.80	8.20		7.20	6.60
	B	-	2.05	2.65	3.05	3.35	3.45	1.05	.90
LU - 12	A	-	7.30	7.60	8.40	8.50	8.36	6.40	6.10
	B	-	-	7.25	7.95	8.00	8.00	5.75	4.00
LU - 13	A	-	-	6.70	7.20	7.35	7.25	5.70	5.50
LU - 14	A	-	7.10	8.40	8.45	dry		6.80	5.40
	B	-	7.15	9.60	8.15	9.45	9.60	5.65	6.05

(Note) G.W.D : Groundwater Depth from Surface.

Appendix 7(4) Result of Observation

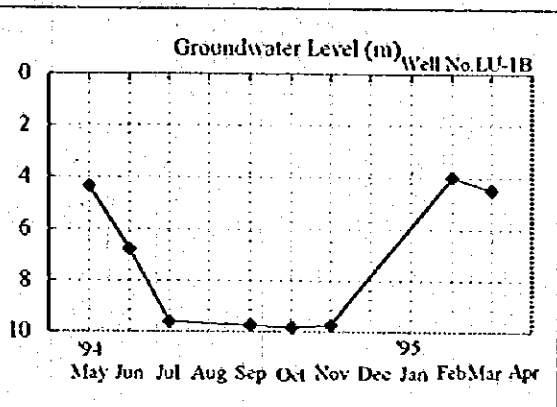
Province: Luapula	Aquifer: Granite		
District: Mansa			
Site Name: Kaole P.Sch.	No.	Month	G.W.L.(GL-m)
Diameter: 1200 mm	1	94May	5.5
Depth: 7.84 m	2	Jun	6.0
Yield: l/day	3	Jul	7.3
Map No. 1128B2	4	Sep	7.4
Elevation: 1220 m	5	Oct	8.0
Grid Ref.: N=8765Km50m	6	Nov	8.1
E=706Km250m	7	95Feb	5.8
	8	Mar	5.1

Maximum Groundwater Level Fluctuation(m) 3.0



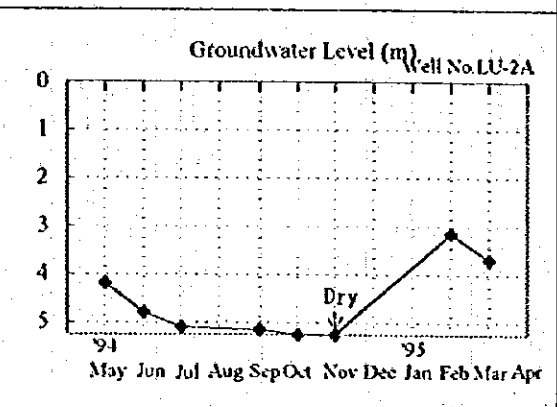
Province: Luapula	Aquifer: Granite		
District: Mansa			
Site Name: Sunbu Vil.	No.	Month	G.W.L.(GL-m)
Diameter: 1200 mm	1	94May	4.3
Depth: 9.69 m	2	Jun	6.8
Yield: l/day	3	Jul	9.6
Map No. 1128B2	4	Sep	9.7
Elevation: 1219 m	5	Oct	9.8
Grid Ref.: N=8759Km250m	6	Nov	9.7
E=706Km0m	7	95Feb	4.0
	8	Mar	4.5

Maximum Groundwater Level Fluctuation(m) 5.9



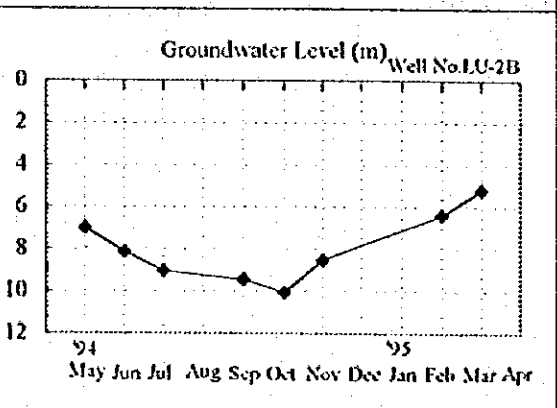
Province: Luapula	Aquifer: Granite		
District: Mansa			
Site Name: Tomas Vil.	No.	Month	G.W.L.(GL-m)
Diameter: 1200 mm	1	94May	4.2
Depth: 5.25 m	2	Jun	4.8
Yield: l/day	3	Jul	5.1
Map No. 1129C1	4	Sep	5.2
Elevation: 1089 m	5	Oct	5.3
Grid Ref.: N=8703Km500m	6	Nov	Dry
E=729Km150m	7	95Feb	3.2
	8	Mar	3.7

Maximum Groundwater Level Fluctuation(m) 2.1



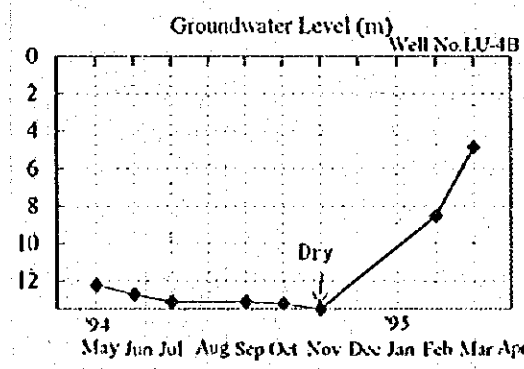
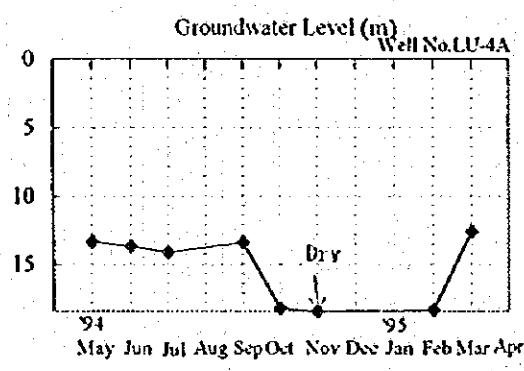
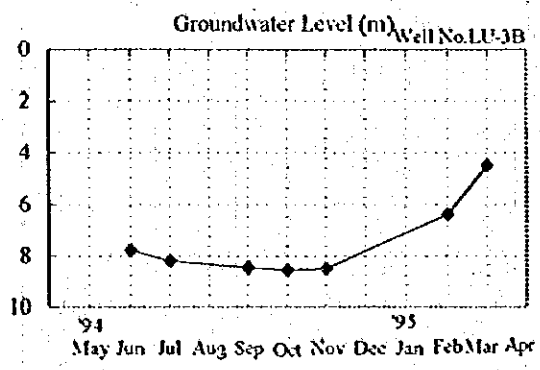
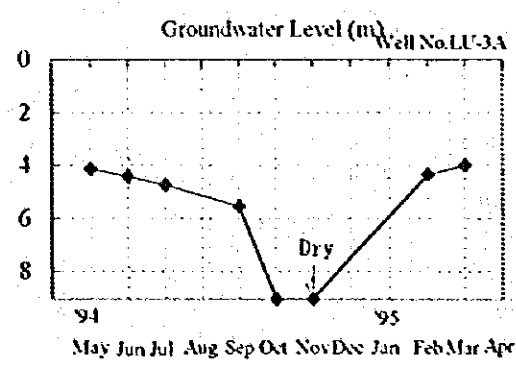
Province: Luapula	Aquifer: Granite		
District: Mansa			
Site Name: Milambo Pol.	No.	Month	G.W.L.(GL-m)
Diameter: 1200 mm	1	94May	7.0
Depth: 10.89 m	2	Jun	8.1
Yield: l/day	3	Jul	9.0
Map No. 1129C1	4	Sep	9.4
Elevation: 1118 m	5	Oct	10.0
Grid Ref.: N=8702Km700m	6	Nov	8.5
E=728Km450m	7	95Feb	6.4
	8	Mar	5.2

Maximum Groundwater Level Fluctuation(m) 4.8



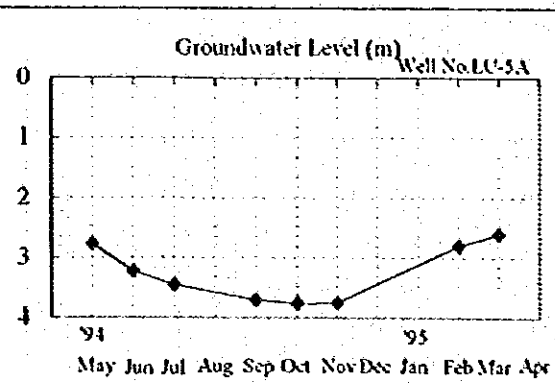
Appendix 7(5) Result of Observation

Province: Luapula	Aquifer: Shale		
District: Kawambwa			
Site Name: Polo Vil.	No.	Month	G.W.L.(GL-m)
	1	94May	4.2
Diameter: 1200 mm	2	Jun	4.4
Depth: 9.05 m	3	Jul	4.8
Yield: l/day	4	Sep	5.6
Map No. 0929C3	5	Oct	9.1
Elevation: 1262 m	6	Nov	Dry
Grid Ref.: N=8916Km900m	7	95Feb	4.4
	8	Mar	4.0
Maximum Groundwater Level Fluctuation(m) 5.1			
Province: Luapula	Aquifer: Shale		
District: Kawambwa			
Site Name: Kambile Vil.	No.	Month	G.W.L.(GL-m)
	1	94May	
Diameter: 1400 mm	2	Jun	7.8
Depth: 9.1 m	3	Jul	8.2
Yield: l/day	4	Sep	8.5
Map No.	5	Oct	8.6
Elevation: m	6	Nov	8.5
Grid Ref.:	7	95Feb	6.4
	8	Mar	4.5
Maximum Groundwater Level Fluctuation(m) 4.1			
Province: Luapula	Aquifer: Quartzite		
District: Nchelenge			
Site Name: Kampampi Sch.	No.	Month	G.W.L.(GL-m)
	1	94May	13.3
Diameter: 1200 mm	2	Jun	13.7
Depth: 18.42 m	3	Jul	14.1
Yield: l/day	4	Sep	13.4
Map No. 0928B3	5	Oct	18.2
Elevation: 942 m	6	Nov	Dry
Grid Ref.: N=8954Km250m	7	95Feb	18.3
	8	Mar	12.6
Maximum Groundwater Level Fluctuation(m) 5.7			
Province: Luapula	Aquifer: Quartzite		
District: Nchelenge			
Site Name: Kampampi Vil.	No.	Month	G.W.L.(GL-m)
	1	94May	12.2
Diameter: 1200 mm	2	Jun	12.7
Depth: 13.5 m	3	Jul	13.1
Yield: l/day	4	Sep	13.1
Map No. 0928B3	5	Oct	13.2
Elevation: 940 m	6	Nov	Dry
Grid Ref.: N=8954Km500m	7	95Feb	8.5
	8	Mar	4.9
Maximum Groundwater Level Fluctuation(m) 8.3			



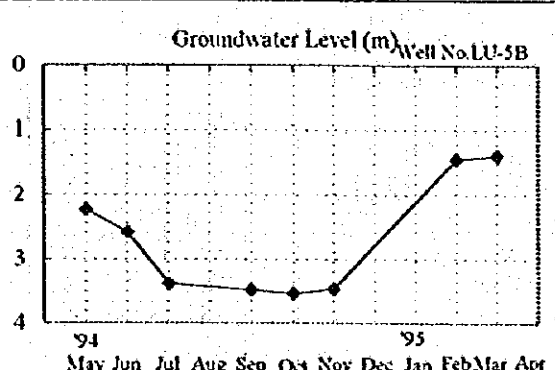
Appendix 7(6) Result of Observation

Province: Luapula	Aquifer: Shale	
District: Mwense		
Site Name: Mwenda Rhc.	No.	Month
	1	94May
Diameter: 1200 mm	2	Jun
Depth: 4.14 m	3	Jul
Yield: l/day	4	Sep
Map No. 1029A3	5	Oct
Elevation: 1247 m	6	Nov
Grid Ref.: N=8840Km750m	7	95Feb
E=739Km0m	8	Mar



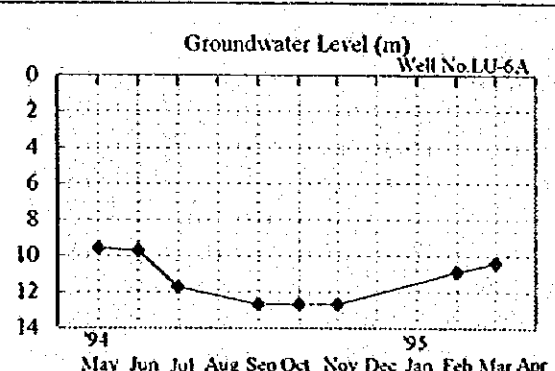
Maximum Groundwater Level Fluctuation(m) 1.2

Province: Luapula	Aquifer: Shale	
District: Mwense		
Site Name: Mwenda Sch.	No.	Month
	1	94May
Diameter: 1200 mm	2	Jun
Depth: 3.83 m	3	Jul
Yield: l/day	4	Sep
Map No. 1029A3	5	Oct
Elevation: 1240 m	6	Nov
Grid Ref.: N=8840Km850m	7	95Feb
E=738Km450m	8	Mar



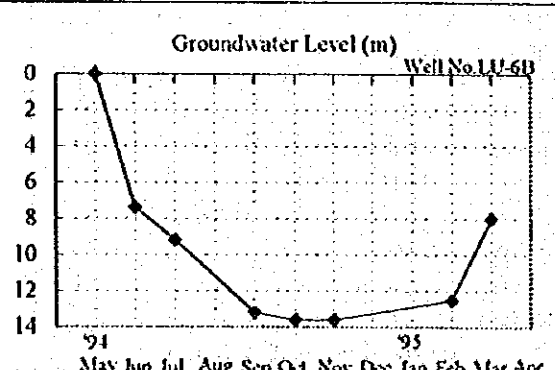
Maximum Groundwater Level Fluctuation(m) 2.1

Province: Luapula	Aquifer: Granite	
District: Mwense		
Site Name: Nkombi Vil.	No.	Month
	1	94May
Diameter: 1200 mm	2	Jun
Depth: 13.12 m	3	Jul
Yield: l/day	4	Sep
Map No. 1028B3	5	Oct
Elevation: 3050+0.8m	6	Nov
Grid Ref.: N=8843Km800m	7	95Feb
E=681Km0m	8	Mar



Maximum Groundwater Level Fluctuation(m) 3.1

Province: Luapula	Aquifer: Granite	
District: Mwense		
Site Name: Kabundafyela Sch.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: m	3	Jul
Yield: l/day	4	Sep
Map No.	5	Oct
Elevation: m	6	Nov
Grid Ref.:	7	95Feb
	8	Mar

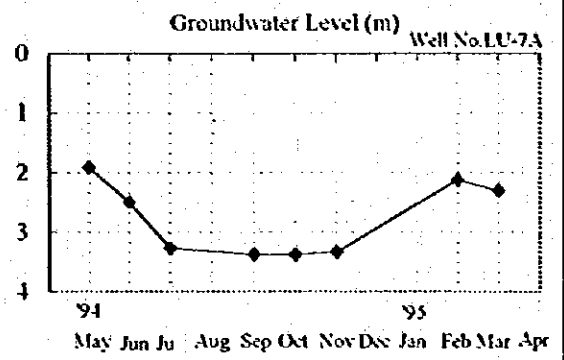


Maximum Groundwater Level Fluctuation(m) 13.6

Appendix 7(7) Result of Observation

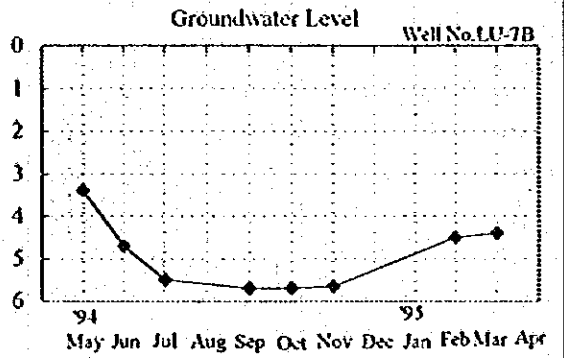
Province: Luapula	Aquifer: Alluvium		
District: Samfya			
Site Name: Kalasa	No.	Month	G.W.L.(GL-m)
	1	94May	1.9
Diameter: 1200 mm	2	Jun	2.5
Depth: 3.82 m	3	Jul	3.3
Yield: l/day	4	Sep	3.4
Map No. 1129D	5	Oct	3.4
Elevation: m	6	Nov	3.3
Grid Ref.: N=869Km300m E=78Km300m	7	95Feb	2.1
	8	Mar	2.3

Maximum Groundwater Level Fluctuation(m) 1.5



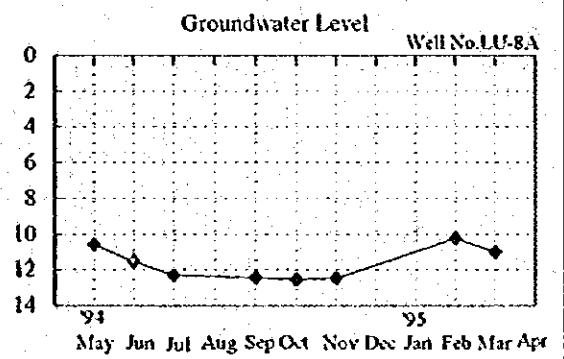
Province: Luapula	Aquifer: Alluvium		
District: Samfya			
Site Name: Patimule	No.	Month	G.W.L.(GL-m)
	1	94May	3.4
Diameter: 1200 mm	2	Jun	4.7
Depth: 6.4 m	3	Jul	5.5
Yield: l/day	4	Sep	5.7
Map No. 1129D	5	Oct	5.7
Elevation: m	6	Nov	5.7
Grid Ref.: N=869Km240m E=78Km100m	7	95Feb	4.5
	8	Mar	4.4

Maximum Groundwater Level Fluctuation(m) 2.3



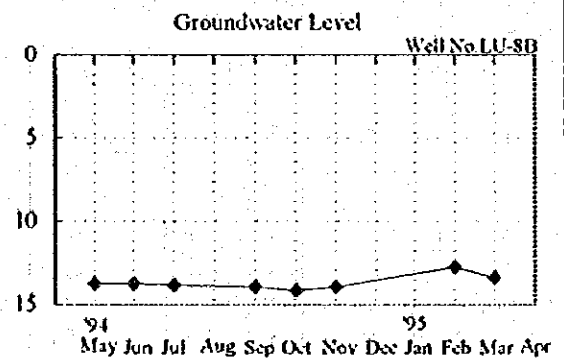
Province: Luapula	Aquifer: Alluvium		
District: Samfya			
Site Name: Kabanga Sch.	No.	Month	G.W.L.(GL-m)
	1	94May	10.6
Diameter: 1200 mm	2	Jun	11.6
Depth: 13.15 m	3	Jul	12.3
Yield: l/day	4	Sep	12.5
Map No. 1129B	5	Oct	12.6
Elevation: m	6	Nov	12.5
Grid Ref.: N=874Km350m E=77Km850m	7	95Feb	10.3
	8	Mar	11.0

Maximum Groundwater Level Fluctuation(m) 2.3



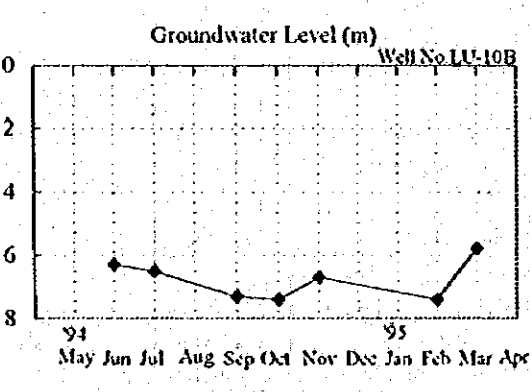
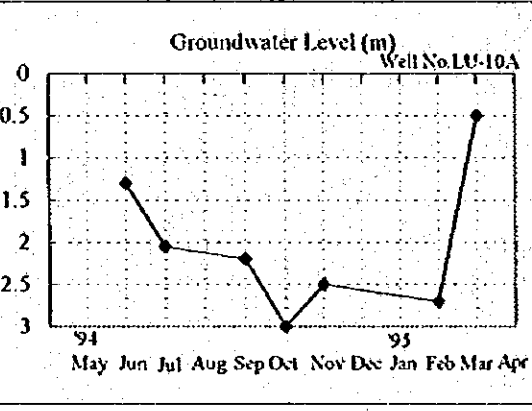
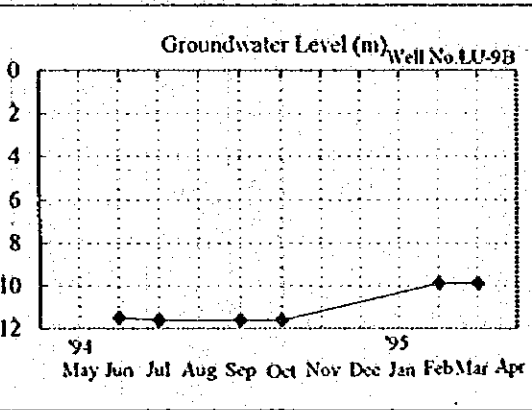
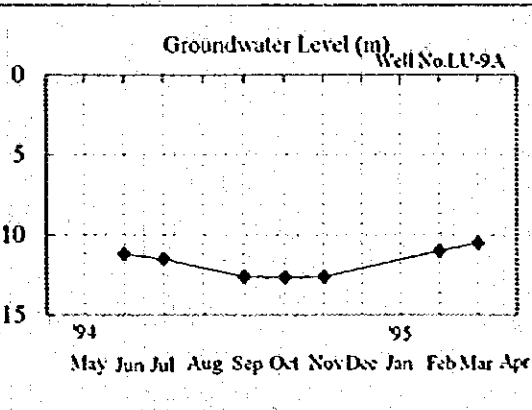
Province: Luapula	Aquifer: Alluvium		
District: Samfya			
Site Name: Samfya Sch.	No.	Month	G.W.L.(GL-m)
	1	94May	13.7
Diameter: 1200 mm	2	Jun	13.7
Depth: 14.84 m	3	Jul	13.8
Yield: l/day	4	Sep	13.9
Map No. 1129B	5	Oct	14.1
Elevation: m	6	Nov	13.9
Grid Ref.: N=874Km450m E=77Km850m	7	95Feb	12.7
	8	Mar	13.4

Maximum Groundwater Level Fluctuation(m) 1.4



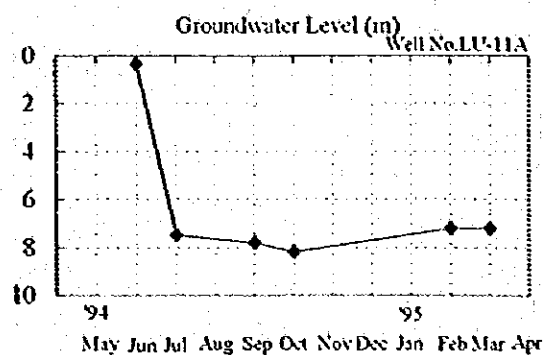
Appendix 7(8) Result of Observation

Province: Luapula	Aquifer: Granite		
District: Mansa			
Site Name: Kumdamfunu Sch.	No.	Month	G.W.L.(GL-m)
Diameter: 1400 mm	1	94May	
Depth: 13.1 m	2	Jun	11.2
Yield: 2000 l/day	3	Jul	11.5
Map No. 1128D2	4	Sep	12.6
Elevation: 1358 m	5	Oct	12.7
Grid Ref.: N=8723Km550m	6	Nov	12.6
E=691Km250m	7	95Feb	11.0
	8	Mar	10.5
Maximum Groundwater Level Fluctuation(m) 2.2			
Province: Luapula	Aquifer: Granite		
District: Mansa			
Site Name: Kudamfunu Sch.	No.	Month	G.W.L.(GL-m)
Diameter: 1400 mm	1	94May	
Depth: 11.6 m	2	Jun	11.5
Yield: l/day	3	Jul	11.6
Map No. 1128D2	4	Sep	11.6
Elevation: 1355 m	5	Oct	11.6
Grid Ref.: N=8723Km100m	6	Nov	
E=691Km200m	7	95Feb	9.9
	8	Mar	9.7
Maximum Groundwater Level Fluctuation(m) 1.9			
Province: Luapula	Aquifer: Quartzite		
District: Mansa			
Site Name: Chembe Cus.	No.	Month	G.W.L.(GL-m)
Diameter: mm	1	94May	
Depth: 3.1 m	2	Jun	1.3
Yield: l/day	3	Jul	2.1
Map No. 1128D3	4	Sep	2.2
Elevation: 1057 m	5	Oct	3.0
Grid Ref.: N=8676Km650m	6	Nov	2.5
E=690Km0m	7	95Feb	2.7
	8	Mar	0.5
Maximum Groundwater Level Fluctuation(m) 2.5			
Province: Luapula	Aquifer: Quartzite		
District: Mansa			
Site Name: Chmbe Sch.	No.	Month	G.W.L.(GL-m)
Diameter: mm	1	94May	
Depth: 8.4 m	2	Jun	6.3
Yield: l/day	3	Jul	6.5
Map No. 1128D3	4	Sep	7.3
Elevation: 1077 m	5	Oct	7.4
Grid Ref.: N=8678Km450m	6	Nov	6.7
E=689Km300m	7	95Feb	7.4
	8	Mar	5.8
Maximum Groundwater Level Fluctuation(m) 1.6			

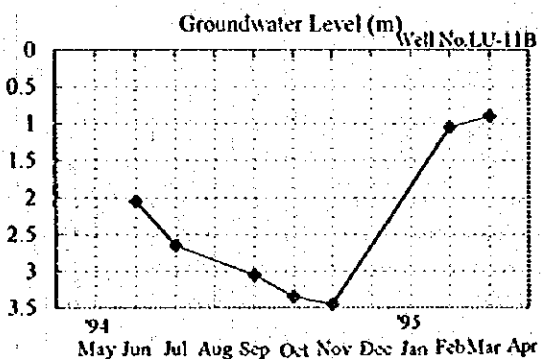


Appendix 7(9) Result of Observation

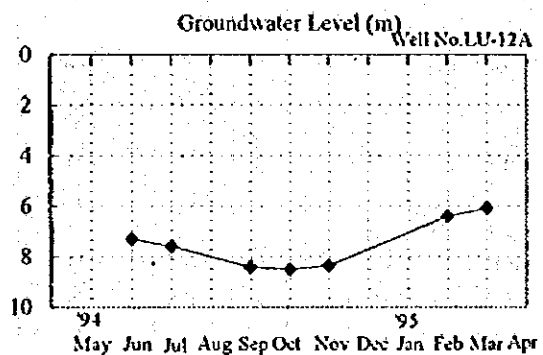
Province: Luapula	Aquifer: Granite	
District: Mansa		
Site Name: Chofoshi Sch.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: 8.2 m	3	Jul
Yield: l/day	4	Sep
Map No. 1128B2	5	Oct
Elevation: 1213 m	6	Nov
Grid Ref.: N=8771Km0m E=701Km0m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 7.85		



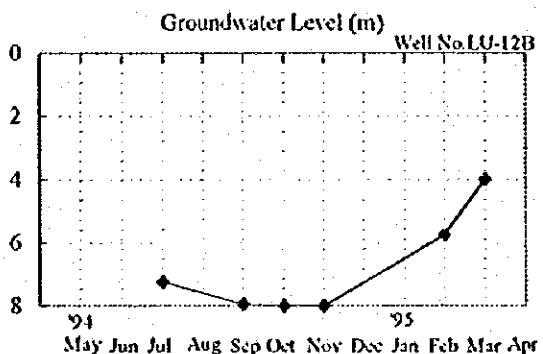
Province: Luapula	Aquifer: Granite	
District: Mansa		
Site Name: Fiyongoli	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: 3.55 m	3	Jul
Yield: l/day	4	Sep
Map No. 1128B2	5	Oct
Elevation: 1206 m	6	Nov
Grid Ref.: N=8766Km0m E=708Km0m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 2.55		



Province: Luapula	Aquifer: Alluvium	
District: Kawambwa		
Site Name: Mushota Sch.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: 8.4 m	3	Jul
Yield: l/day	4	Sep
Map No. 0929C4	5	Oct
Elevation: 1207 m	6	Nov
Grid Ref.: N=8914Km250m E=762Km200m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 2.4		

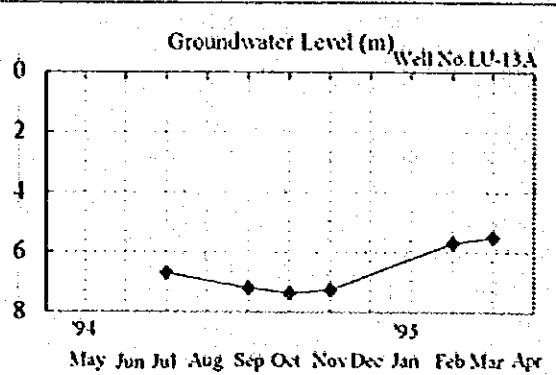


Province: Luapula	Aquifer: Alluvium	
District: Kawambwa		
Site Name: Mushota Sch.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: 8.25 m	3	Jul
Yield: l/day	4	Sep
Map No. 0929C4	5	Oct
Elevation: 1201 m	6	Nov
Grid Ref.: N=8914Km650m E=762Km600m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 4		



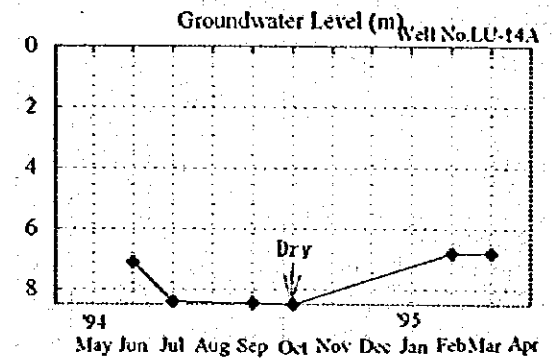
Appendix 7(10) Result of Observation

Province: Luapula	Aquifer: Quartzite		
District: Mansa			
Site Name: Mambilima Rhc.	No.	Month	G.W.L.(GL-m)
Diameter: 1400 mm	1	'94May	
Depth: 9.3 m	2	Jun	
Yield: l/day	3	Jul	6.7
Map No. 1128B1	4	Sep	7.2
Elevation: 1067 m	5	Oct	7.35
Grid Ref.: N=8769Km0	6	Nov	7.25
E=669Km600m	7	'95Feb	5.7
	8	Mar	5.5



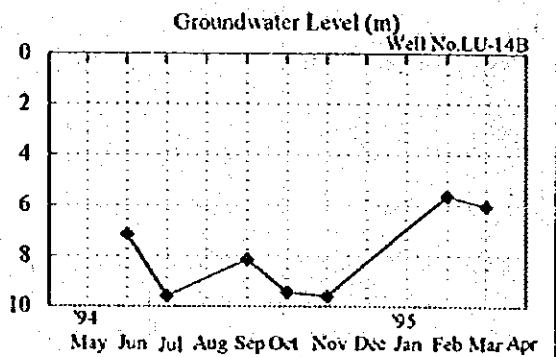
Maximum Groundwater Level Fluctuation(m) 1.85

Province: Luapula	Aquifer: Gneiss		
District: Nchelenge			
Site Name: Kaseke Sch.	No.	Month	G.W.L.(GL-m)
Diameter: 1400 mm	1	'94May	
Depth: m	2	Jun	7.1
Yield: l/day	3	Jul	8.4
Map No. 0929A1	4	Sep	8.45
Elevation: 966 m	5	Oct	Dry
Grid Ref.: N=9000Km500m	6	Nov	
E=727Km550m	7	'95Feb	6.8
	8	Mar	5.4



Maximum Groundwater Level Fluctuation(m) 3.05

Province: Luapula	Aquifer: Gneiss		
District: Nchelenge			
Site Name: Kaseke Vil.	No.	Month	G.W.L.(GL-m)
Diameter: 1400 mm	1	'94May	
Depth: 9 m	2	Jun	7.15
Yield: l/day	3	Jul	9.6
Map No. 0929A1	4	Sep	8.15
Elevation: 964 m	5	Oct	9.45
Grid Ref.: N=9000Km150m	6	Nov	9.6
E=727Km450m	7	'95Feb	5.65
	8	Mar	6.05



Maximum Groundwater Level Fluctuation(m) 3.95

Appendix 8

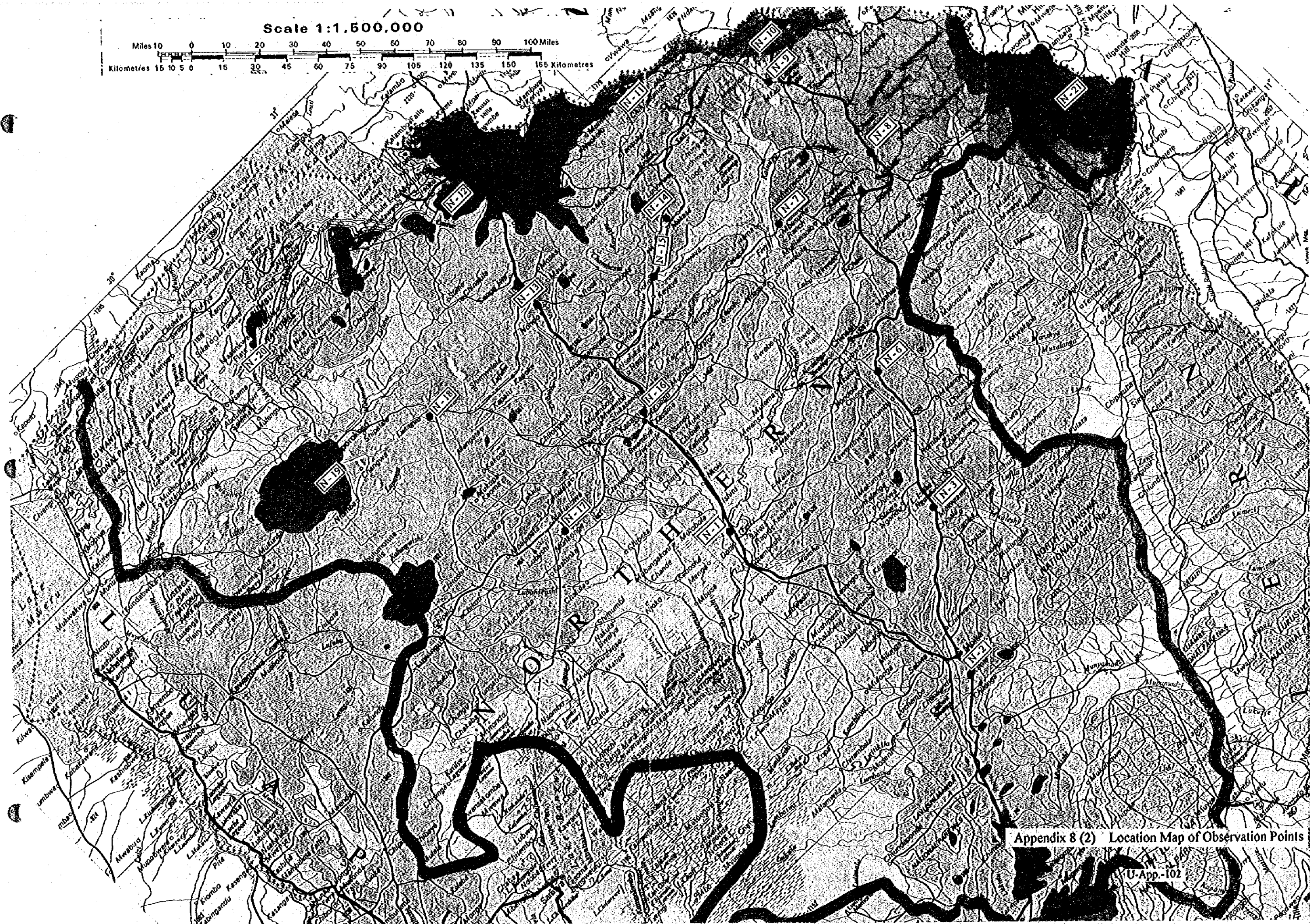
Observation Result in Northern Province

Appendix 8 (1) List of Observation Points

<Northern Province >

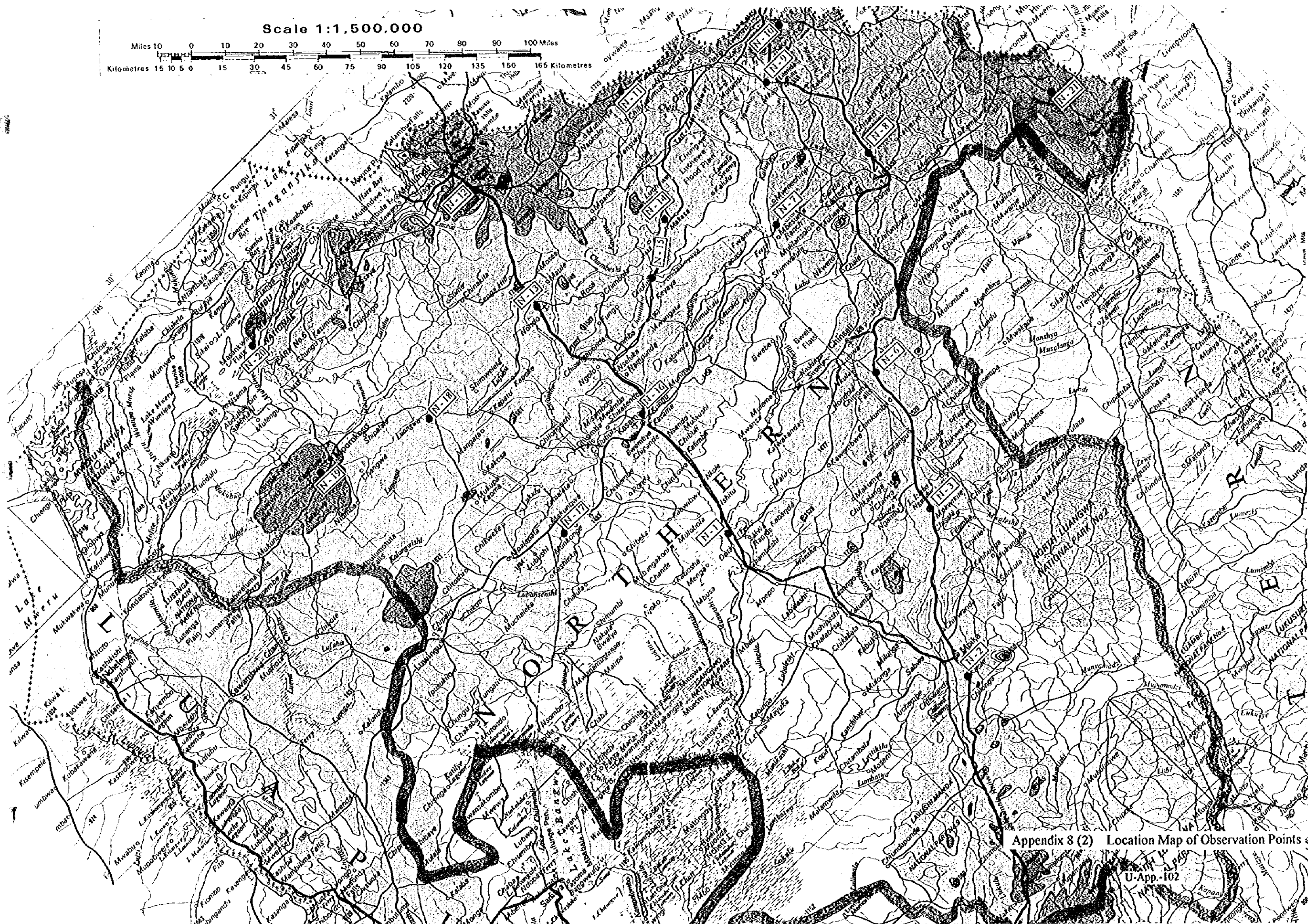
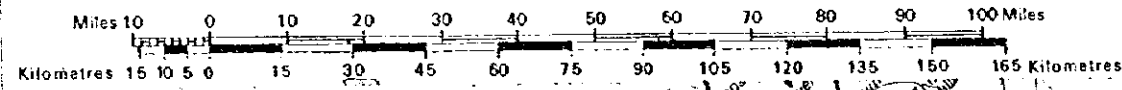
Point No.	Well No.	Geology	Elevation (m)	District	Site Name
N - 1	A	Shale	1200	Kasama	Kapata
	B	Shale	1280		Chileshe Sch.
N - 2	A	Shale Shale	1390	Mpika	Chishibasonde Sch.
N - 3	A	Shale	1560	Mpika	Mukwikile Vil.
	B	Shale	1490		Pvanda
N - 6	A	Shale	1370	Chinsali	Nasinkanba Farm
	B	Shale	1360		Chewe Vil.
N - 7	A	Shale	1282	Isola	Kaso P.Sch.
	B	Shale	1280		Kalukanya Vil.
N - 8	A	Shale	1275	Isola	Ntipo P.Sch.
	B	Shale	1295		Ntipo P.Sch.
N - 9	A	Alluvium	1350	Isola	Waitwika Vil.
	B	Alluvium	1360		Kabonga Vil.
N - 10	A	Granite	1680	Nakonde	Imbrahim
	B	Granite	1630		Ntindi P.Sch.
N - 11	A	Granite		Nakonde	Mukalizi P.
N - 12	A	Meta	1669	Mbala	Muyakasi Vil.
	B	Meta	1669		Muyakasi Vil.
N - 13	A	Shale	1560	Mbala	Nondo Market
	B	Shale	1500		Nondao R.H.C.
N - 14	A	Shale	1260	Mbala	Chief Palace
	B	Granite	1300		Michael Kafisha Vil.
N - 15	A	Gneiss	1260	Kasama	Fundala Vil.
	B	Granite	1240		Chanda Mali Vil.
N - 16	A	Shale	1340	Kasama	Chanda Mukulu Vil.
	B	Shale	1360		Malitino Vil.
N - 17	A	Granite	1380	Kasama	Mukonge P.Sch.
	B	Shale	1420		Mukonga R.Camp
N - 18	A	Shale	1430	Mporokoso	Mukolwe R.H.C.
N - 19	A	Shale	1425	Mporokoso	Mutamba Vil.
	B	Shale	1430		Kashinda P.Sch.
N - 20	A	Meta		Kaputa	Sumbu Market
	B	Meta	1180		Camp Vil.
N - 21	A	Gneiss	1490	Isoka	Tnendere S.C.
	B	Gneiss	1520		Tnenderd R.H.C.

Scale 1:1,500,000



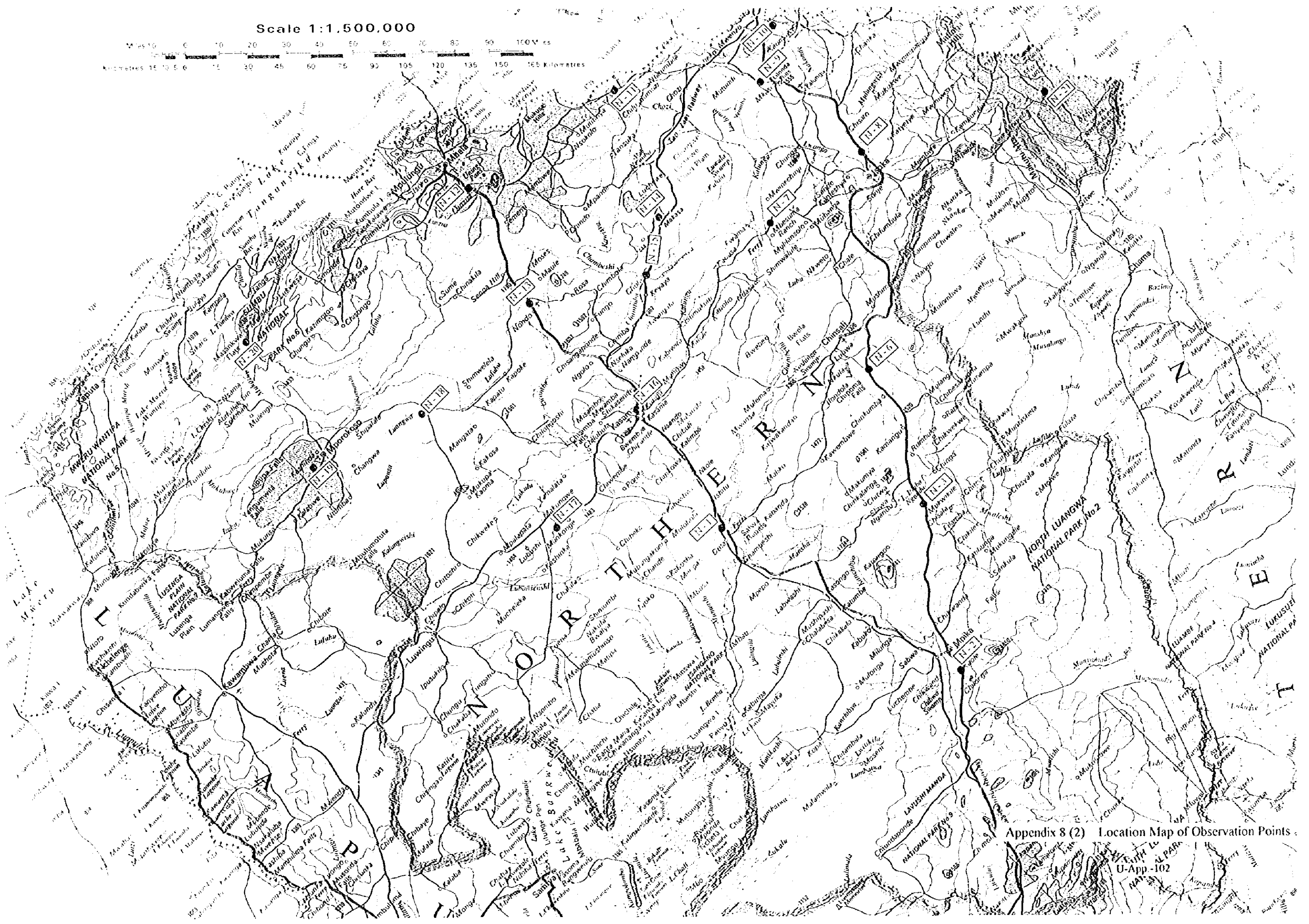
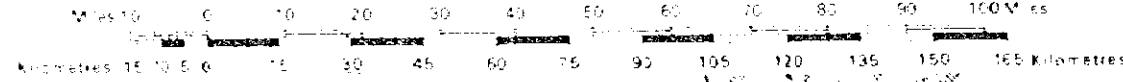
Appendix 8 (2) Location Map of Observation Points

Scale 1:1,500,000



Appendix 8 (2) Location Map of Observation Points

Scale 1:1,500,000



Appendix 8 (2) Location Map of Observation Points

Appendix 8 (3) Result of Nation-wide Groundwater Level Observation

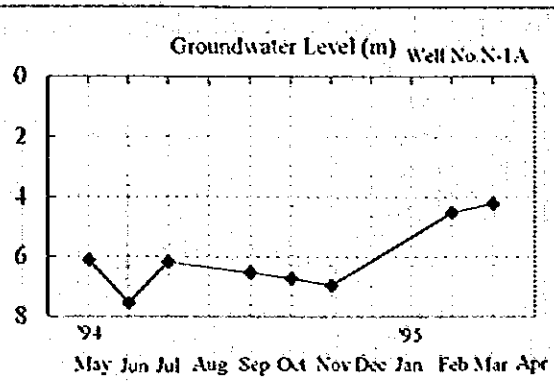
< Northern Province >

Point No.	Well No.	May. 1994 G.W.D(m)	Jun. G.W.D(m)	Jul. G.W.D(m)	Sep. G.W.D(m)	Oct. G.W.D(m)	Nov. G.W.D(m)	Feb. 1995 G.W.D(m)	Mar. G.W.D(m)
N - 1	A	6.11	7.55	6.18	6.53	6.71	6.94	4.53	4.24
	B	-	5.40	7.85	8.20	8.40	8.68	7.26	5.91
N - 2	A	12.52	8.90	9.10	9.14	9.25	9.49	9.61	7.43
N - 3	A	10.25	16.57	11.03	11.47	11.57	11.85	12.36	10.31
	B	13.90	10.46	13.90	14.19	14.01	14.68	14.80	13.50
N - 6	A	18.61	18.61	18.61	18.89	19.25	18.98	19.12	17.67
	B	18.61	18.61	18.61	18.79	18.69	19.08	19.19	16.03
N - 7	A	4.36	4.36	4.36	8.65	8.89	9.38	8.35	6.30
	B	3.79	3.79	3.79	4.75	3.88	4.37	3.37	2.55
N - 8	A	16.50	16.50	16.50	17.20	17.20	17.20	dry	dry
	B	6.85	6.85	7.27	7.50	7.50	7.50	dry	dry
N - 9	A	11.76	11.00	11.82	12.35	12.50	11.91	11.61	11.71
	B	6.12	6.12	6.12	6.04	6.11	6.11	4.15	3.95
N - 10	A	8.20	8.20	8.15	8.16	8.35	9.06	8.85	8.08
	B	8.20	10.90	8.50	8.80	8.90	8.69	8.25	8.15
N - 11	A	7.80	14.90	14.98	14.99	15.14	15.14	14.99	7.75
N - 12	A	10.40	10.90	12.17	12.66	13.28	13.92	11.50	8.29
	B	10.31	10.80	11.23	12.22	13.15	12.90	10.40	7.15
N - 13	A	12.52	12.40	12.80	13.12	13.44	14.01	14.33	12.45
	B	12.54	12.25	12.62	12.99	13.35	13.88	14.35	12.71
N - 14	A	-	-	4.49	4.70	4.82	4.93	3.96	3.22
	B	-	-	8.46	8.66	8.79	9.00	5.30	3.14
N - 15	A	-	3.00	5.25	5.65	5.86	6.21	5.78	4.10
	B	-	2.10	4.02	4.55	4.66	5.77	2.15	1.34
N - 16	A	15.82	16.35	15.70	16.63	17.02	17.85	15.10	13.46
	B	12.37	12.60	14.91	15.55	15.65	16.14	16.23	15.49
N - 17	A	7.96	8.20	9.04	10.26	11.10	11.22	10.45	5.40
	B	-	9.02	11.13	11.66	11.90	12.31	12.79	11.15
N - 18	A	-	-	3.25	3.69	4.15	5.12	3.45	2.64
N - 19	A	-	6.70	7.00	7.30	7.60	7.85	7.90	6.70
	B	-	5.10	5.40	6.10	6.95	9.35	6.65	2.54
N - 20	A	-	-	3.98	4.15	4.35	3.63	2.45	dry
	B	3.47	3.47	3.47	2.86	4.24	2.37	2.39	1.04
N - 21	A	-	-	9.80	13.10	12.41	13.48	dry	dry
	B	-	-	11.70	12.16	13.30	12.21	dry	dry

(Note) G.W.D : Groundwater Depth from Surface.

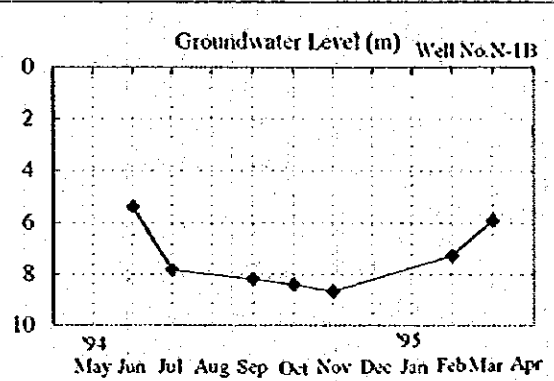
Appendix 8(4) Result of Observation

Province: Nortern	Aquifer: Shale	
District: Kasama		
Site Name: Kapata	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: m	3	Jul
Yield: l/day	4	Sep
Map No. SC-36-9	5	Oct
Elevation: 1200 m	6	Nov
Grid Ref.: N=880Km250m	7	95Feb
	8	Mar



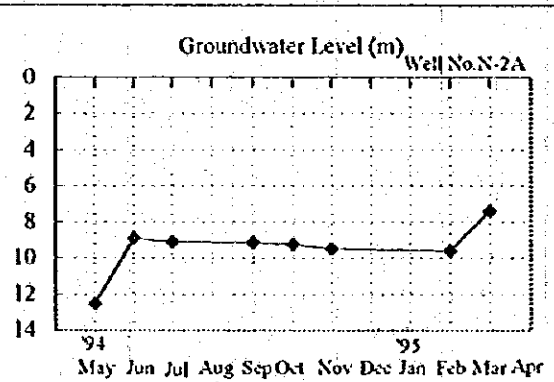
Maximum Groundwater Level Fluctuation(m) 3.31

Province: Nortern	Aquifer: Shale	
District: Kasama		
Site Name: Chileshe Sch.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: 9.82 m	3	Jul
Yield: l/day	4	Sep
Map No. SC-36-9	5	Oct
Elevation: 1280 m	6	Nov
Grid Ref.: N=880Km150m	7	95Feb
	8	Mar



Maximum Groundwater Level Fluctuation(m) 3.28

Province: Nortern	Aquifer: Shale	
District: Mpika		
Site Name: Chhishibasonde Sch.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: m	3	Jul
Yield: l/day	4	Sep
Map No. 1131C4	5	Oct
Elevation: 1390 m	6	Nov
Grid Ref.: N=8681Km550m	7	95Feb
	8	Mar



Maximum Groundwater Level Fluctuation(m) 5.09

Appendix 8(5) Result of Observation

Province: Nortern	Aquifer: Shale		
District: Mpika			
Site Name: Mukwikile Vil	No.	Month	G.W.L.(GL-m)
	1	94May	10.3
Diameter: 1400 mm	2	Jun	16.6
Depth: m	3	Jul	11.0
Yield: l/day	4	Sep	11.5
Map No. 1131B4	5	Oct	11.6
Elevation: 1560 m	6	Nov	11.9
Grid Ref.: N=8744Km600m E=367Km0m	7	95Feb	12.4
	8	Mar	10.3
Maximum Groundwater Level Fluctuation(m) 6.3			
Province: Nortern	Aquifer: Shale		
District: Mpika			
Site Name: Pwanda	No.	Month	G.W.L.(GL-m)
	1	94May	13.9
Diameter: 1400 mm	2	Jun	10.5
Depth: m	3	Jul	13.9
Yield: l/day	4	Sep	14.2
Map No. 1131B2	5	Oct	14.0
Elevation: 1610 m	6	Nov	14.7
Grid Ref.: N=8759Km0m E=371Km450m	7	95Feb	14.8
	8	Mar	13.5
Maximum Groundwater Level Fluctuation(m) 4.3			
Province: Nortern	Aquifer: Shale		
District: Chinsali			
Site Name: Nasinkamba Farm	No.	Month	G.W.L.(GL-m)
	1	94May	18.6
Diameter: 1400 mm	2	Jun	18.6
Depth: 18.72 m	3	Jul	18.6
Yield: l/day	4	Sep	18.9
Map No. 1032C1	5	Oct	19.3
Elevation: 1370 m	6	Nov	19.0
Grid Ref.: N=8822Km850m E=406Km200m	7	95Feb	19.1
	8	Mar	17.7
Maximum Groundwater Level Fluctuation(m) 1.6			
Province: Nortern	Aquifer: Shale		
District: Chinsali			
Site Name: Chéwa Vil.	No.	Month	G.W.L.(GL-m)
	1	94May	18.6
Diameter: 1400 mm	2	Jun	18.6
Depth: 19.76 m	3	Jul	18.6
Yield: l/day	4	Sep	18.8
Map No. 1032C1	5	Oct	18.7
Elevation: 1360 m	6	Nov	19.1
Grid Ref.: N=8817Km850m E=402Km750m	7	95Feb	19.2
	8	Mar	16.0
Maximum Groundwater Level Fluctuation(m) 3.2			

Groundwater Level (m) Well No.N-3A			
94	95		
May	Jun	Jul	Aug
Sep	Oct	Nov	Dec
Jan	Feb	Mar	Apr

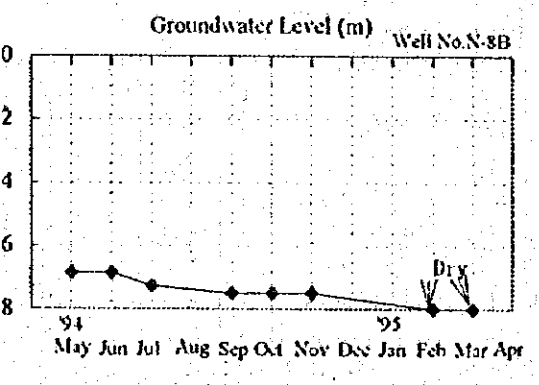
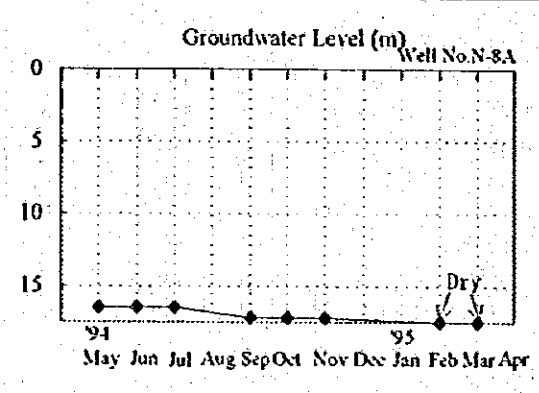
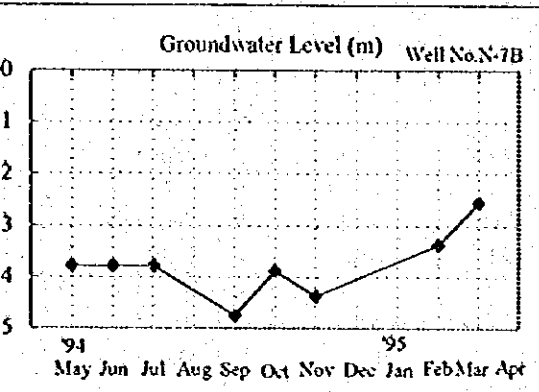
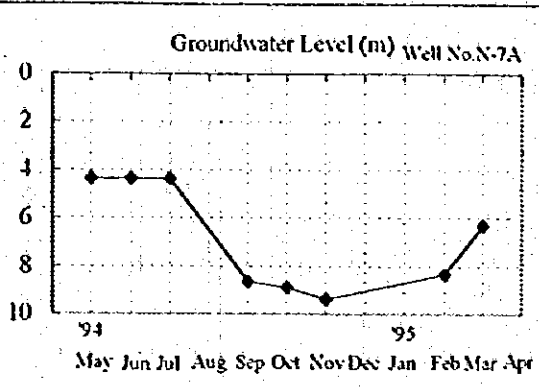
Groundwater Level (m) Well No.N-3B			
94	95		
May	Jun	Jul	Aug
Sep	Oct	Nov	Dec
Jan	Feb	Mar	Apr

Groundwater Level (m) Well No.N-6A			
94	95		
May	Jun	Jul	Aug
Sep	Oct	Nov	Dec
Jan	Feb	Mar	Apr

Groundwater Level (m) Well No.N-6B			
94	95		
May	Jun	Jul	Aug
Sep	Oct	Nov	Dec
Jan	Feb	Mar	Apr

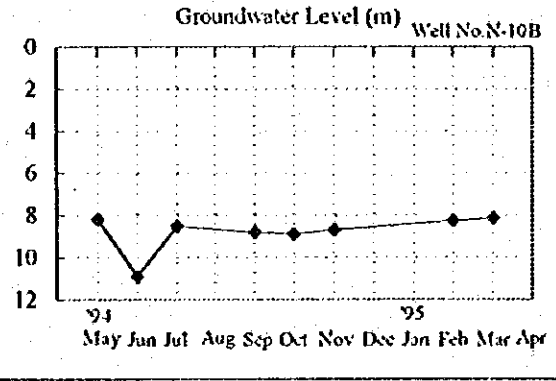
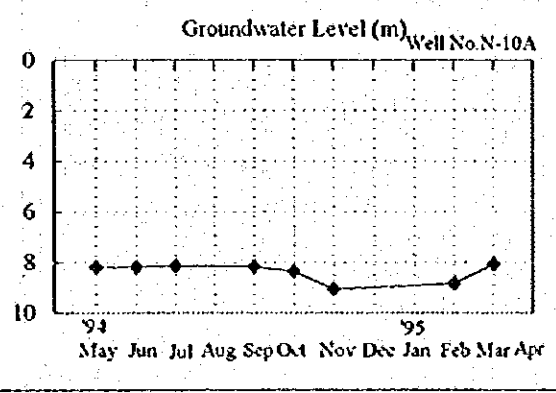
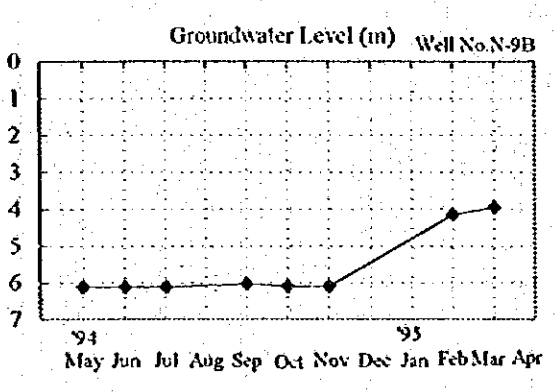
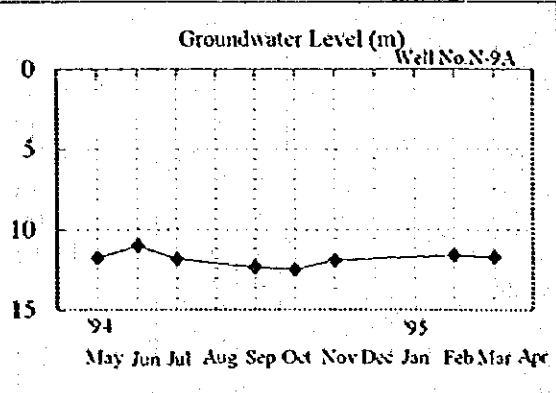
Appendix 8(6) Result of Observation

Province: Northern	Aquifer: Shale		
District: Isola			
Site Name: Kaso P.Sch. Diameter: 1400 mm Depth: 4.56 m Yield: l/day Map No. 1032A2 Elevation: 1282 m Grid Ref.: N=8891Km350m E=425Km0m	No.	Month	G.W.L.(GL-m)
	1	94May	4.4
	2	Jun	4.4
	3	Jul	4.4
	4	Sep	8.7
	5	Oct	8.9
	6	Nov	9.4
	7	95Feb	8.4
8	Mar	6.3	
Maximum Groundwater Level Fluctuation(m) 5.0			
Province: Northern	Aquifer: Shale		
District: Isola			
Site Name: Kaukanya Vil. Diameter: 900 mm Depth: 4.88 m Yield: l/day Map No. 1032A2 Elevation: 1280 m Grid Ref.: N=8893Km850m E=422Km800m	No.	Month	G.W.L.(GL-m)
	1	94May	3.8
	2	Jun	3.8
	3	Jul	3.8
	4	Sep	4.8
	5	Oct	3.9
	6	Nov	4.4
	7	95Feb	3.4
8	Mar	2.6	
Maximum Groundwater Level Fluctuation(m) 2.2			
Province: Northern	Aquifer: Shale		
District: Isola			
Site Name: Ntupo P.Sch. Diameter: 1000 mm Depth: 17.5 m Yield: l/day Map No. 1032B1 Elevation: 1275 m Grid Ref.: N=8881Km850m E=464Km0m	No.	Month	G.W.L.(GL-m)
	1	94May	16.5
	2	Jun	16.5
	3	Jul	16.5
	4	Sep	17.2
	5	Oct	17.2
	6	Nov	17.2
	7	95Feb	Dry
8	Mar	Dry	
Maximum Groundwater Level Fluctuation(m) 0.7			
Province: Northern	Aquifer: Shale		
District: Isola			
Site Name: Ntupo P.Sch. Diameter: 1400 mm Depth: m Yield: l/day Map No. 1032B1 Elevation: 1295 m Grid Ref.: N=8881Km0m E=464Km250m	No.	Month	G.W.L.(GL-m)
	1	94May	6.9
	2	Jun	6.9
	3	Jul	7.3
	4	Sep	7.5
	5	Oct	7.5
	6	Nov	7.5
	7	95Feb	Dry
8	Mar	Dry	
Maximum Groundwater Level Fluctuation(m) 0.7			



Appendix 8(7), Result of Observation

Province: Nortern	Aquifer: Alluvium		
District: Isola			
Site Name: Waitwika Vil.	No.	Month	G.W.L.(GL-m)
	1	94May	11.8
Diameter: 1500 mm	2	Jun	11.0
Depth: m	3	Jul	11.8
Yield: l/day	4	Sep	12.4
Map No. 0932B3	5	Oct	12.5
Elevation: 1350 m	6	Nov	11.9
Grid Ref.: N=8935Km650m	7	95Feb	11.6
E=455Km250m	8	Mar	11.7
Maximum Groundwater Level Fluctuation(m) 1.5			
Province: Nortern	Aquifer: Alluvium		
District: Isola			
Site Name: Kabongo Vil.	No.	Month	G.W.L.(GL-m)
	1	94May	6.1
Diameter: 900 mm	2	Jun	6.1
Depth: 6.18 m	3	Jul	6.1
Yield: l/day	4	Sep	6.0
Map No. 0932B3	5	Oct	6.1
Elevation: 1360 m	6	Nov	6.1
Grid Ref.: N=8950Km850m	7	95Feb	4.2
E=460Km350m	8	Mar	4.0
Maximum Groundwater Level Fluctuation(m) 2.2			
Province: Nortern	Aquifer: Granite		
District: Nakonde			
Site Name: Imbrahim	No.	Month	G.W.L.(GL-m)
	1	94May	8.2
Diameter: mm	2	Jun	8.2
Depth: m	3	Jul	8.2
Yield: l/day	4	Sep	8.2
Map No. 0932B4	5	Oct	8.4
Elevation: 1680 m	6	Nov	9.1
Grid Ref.: N=8967Km450m	7	95Feb	8.9
E=479Km0m	8	Mar	8.1
Maximum Groundwater Level Fluctuation(m) 1.0			
Province: Nortern	Aquifer: Granite		
District: Nakonde			
Site Name: Ntindi P.Sch.	No.	Month	G.W.L.(GL-m)
	1	94May	8.2
Diameter: mm	2	Jun	10.9
Depth: m	3	Jul	8.5
Yield: l/day	4	Sep	8.8
Map No. 0932B4	5	Oct	8.9
Elevation: 1630 m	6	Nov	8.7
Grid Ref.: N=8970Km750m	7	95Feb	8.3
E=473Km300m	8	Mar	8.2
Maximum Groundwater Level Fluctuation(m) 2.8			

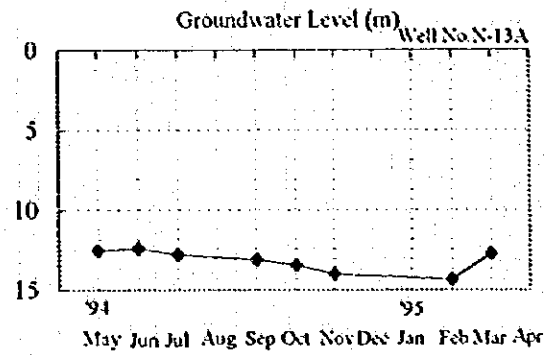


Appendix 8(8) Result of Observation

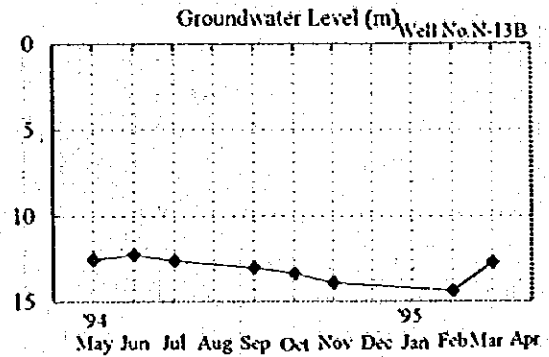
Province: Nortern		Aquifer: Granite		<p style="text-align: center;">Groundwater Level (m) Well No. N-11A</p>	
District: Nakonde		No.	Month		G.W.L.(GL-m)
Site Name: Mukalizi P.		1	94May		7.8
Diameter:	mm	2	Jun		14.9
Depth:	m	3	Jul		15.0
Yield:	l/day	4	Sep		15.0
Map No.		5	Oct		15.1
Elevation:	m	6	Nov		15.1
Grid Ref.:	N=8990Km400m E=410Km150m	7	95Feb		15.0
		8	Mar	7.8	
Maximum Groundwater Level Fluctuation(m)				7.4	
Province: Nortern		Aquifer: Meta		<p style="text-align: center;">Groundwater Level (m) Well No. N-12A</p>	
District: Mbala		No.	Month		G.W.L.(GL-m)
Site Name: Muyakashi Vil.		1	94May		10.4
Diameter:	1400 mm	2	Jun		10.9
Depth:	m	3	Jul		12.2
Yield:	l/day	4	Sep		12.7
Map No.	0831C4	5	Oct		13.3
Elevation:	1669 m	6	Nov		13.9
Grid Ref.:	N=9015Km250m E=320Km0m	7	95Feb		11.5
		8	Mar	8.3	
Maximum Groundwater Level Fluctuation(m)				5.6	
Province: Nortern		Aquifer: Meta		<p style="text-align: center;">Groundwater Level (m) Well No. N-12B</p>	
District: Mbala		No.	Month		G.W.L.(GL-m)
Site Name: Muyakashi Vil.		1	94May		10.3
Diameter:	1400 mm	2	Jun		10.8
Depth:	m	3	Jul		11.2
Yield:	l/day	4	Sep		12.2
Map No.	0831C4	5	Oct		13.2
Elevation:	1669 m	6	Nov		12.9
Grid Ref.:	N=9014Km750m E=320Km0m	7	95Feb		10.4
		8	Mar	7.2	
Maximum Groundwater Level Fluctuation(m)				6.0	

Appendix 8(9) Result of Observation

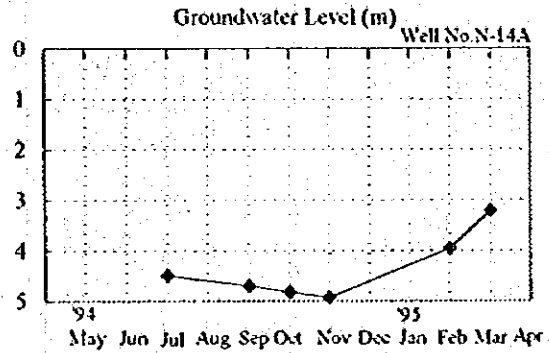
Province: Northern	Aquifer: Shale		
District: Mbala			
Site Name:	No.	Month	G.W.L.(GL-m)
Nondo Market	1	94May	12.5
Diameter: 1400 mm	2	Jun	12.4
Depth: m	3	Jul	12.8
Yield: l/day	4	Sep	13.1
Map No. 0931C1	5	Oct	13.4
Elevation: 1500 m	6	Nov	14.0
Grid Ref.: N=8942Km850m E=302Km850m	7	95Feb	14.4
	8	Mar	12.7
Maximum Groundwater Level Fluctuation(m) 2.0			



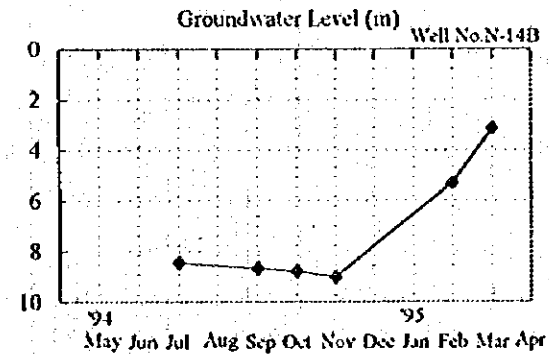
Province: Northern	Aquifer: Shale		
District: Mbala			
Site Name:	No.	Month	G.W.L.(GL-m)
Nondao R.H.C.	1	94May	12.5
Diameter: 1400 mm	2	Jun	12.3
Depth: m	3	Jul	12.6
Yield: l/day	4	Sep	13.0
Map No. 0931C1	5	Oct	13.4
Elevation: 1500 m	6	Nov	13.9
Grid Ref.: N=8942Km700m E=301Km750m	7	95Feb	14.4
	8	Mar	12.7
Maximum Groundwater Level Fluctuation(m) 2.1			



Province: Northern	Aquifer: Shale		
District: Mbala			
Site Name: Chief Place	No.	Month	G.W.L.(GL-m)
	1	94May	
Diameter: 1400 mm	2	Jun	
Depth: m	3	Jul	4.5
Yield: l/day	4	Sep	4.7
Map No. 0931D2	5	Oct	4.8
Elevation: 1260 m	6	Nov	4.9
Grid Ref.: N=8931Km0m E=376Km600m	7	95Feb	4.0
	8	Mar	3.2
Maximum Groundwater Level Fluctuation(m) 1.7			



Province: Northern	Aquifer: Granite		
District: Mbala			
Site Name:	No.	Month	G.W.L.(GL-m)
Michael Kafisha Vil.	1	94May	
Diameter: 1400 mm	2	Jun	
Depth: m	3	Jul	8.5
Yield: l/day	4	Sep	8.7
Map No. 0931D2	5	Oct	8.8
Elevation: 1300 m	6	Nov	9.0
Grid Ref.: N=8933Km400m E=372Km250m	7	95Feb	5.3
	8	Mar	3.1
Maximum Groundwater Level Fluctuation(m) 5.9			



Appendix 8(10) Result of Observation

Province: Northern	Aquifer: Gneiss	
District: Kasama		
Site Name: Fundala Vil.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: 8.15 m	3	Jul
Yield: l/day	4	Sep
Map No. 0931D3	5	Oct
Elevation: 1260 m	6	Nov
Grid Ref.: N=8915Km250m E=351Km300m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 3.2		
Province: Northern	Aquifer: Granite	
District: Kasama		
Site Name: Chanda Mukulu Vil.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: 6.94 m	3	Jul
Yield: l/day	4	Sep
Map No.	5	Oct
Elevation: 1240 m	6	Nov
Grid Ref.: N=898Km200m E=356Km750m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 4.4		
Province: Northern	Aquifer: Shale	
District: Kasama		
Site Name: Mukonge P.Sch.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: m	3	Jul
Yield: l/day	4	Sep
Map No. 1031A1	5	Oct
Elevation: 1340 m	6	Nov
Grid Ref.: N=8878Km600m E=308Km200m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 4.4		
Province: Northern	Aquifer: Shale	
District: Kasama		
Site Name: Malitino Vil.	No.	Month
	1	94May
Diameter: 1400 mm	2	Jun
Depth: m	3	Jul
Yield: l/day	4	Sep
Map No. 1031A1	5	Oct
Elevation: 1360 m	6	Nov
Grid Ref.: N=8870Km250m E=300Km250m	7	95Feb
	8	Mar
Maximum Groundwater Level Fluctuation(m) 3.9		

Groundwater Level (m) Well No.N-15A		
94	May	3.0
	Jun	5.3
	Jul	5.7
	Aug	5.9
	Sep	6.2
	Oct	5.8
	Nov	4.1
95	Dec	
	Jan	
	Feb	
	Mar	
	Apr	

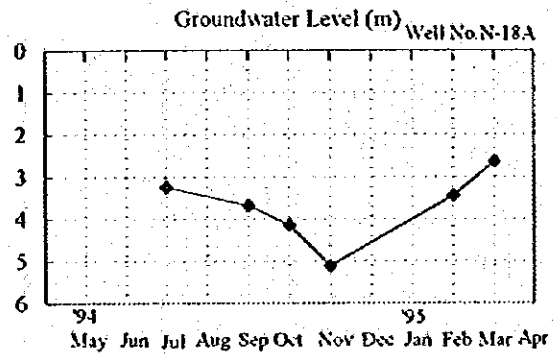
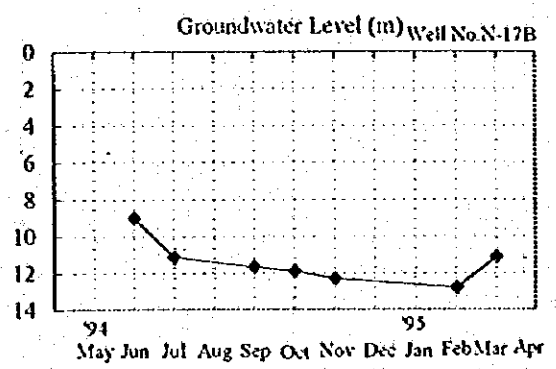
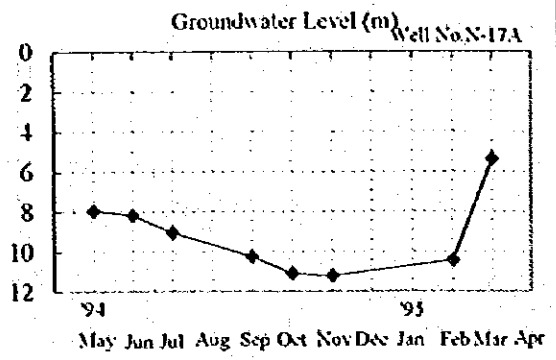
Groundwater Level (m) Well No.N-15B		
94	May	2.1
	Jun	4.0
	Jul	4.6
	Aug	4.7
	Sep	5.8
	Oct	2.2
	Nov	1.3
95	Dec	
	Jan	
	Feb	
	Mar	
	Apr	

Groundwater Level (m) Well No.N-16A		
94	May	15.8
	Jun	16.4
	Jul	15.7
	Aug	16.6
	Sep	17.0
	Oct	17.9
	Nov	15.1
95	Dec	
	Jan	
	Feb	
	Mar	
	Apr	

Groundwater Level (m) Well No.N-16B		
94	May	12.4
	Jun	12.6
	Jul	14.9
	Aug	15.6
	Sep	15.7
	Oct	16.1
	Nov	16.2
95	Dec	
	Jan	
	Feb	
	Mar	
	Apr	

Appendix 8(11) Result of Observation

Province: Northern	Aquifer: Granite		
District: Kasama			
Site Name:	No.	Month	G.W.L.(GL-m)
Mukonge P.Sch.	1	94May	8.0
Diameter: 1200 mm	2	Jun	8.2
Depth: m	3	Jul	9.0
Yield: l/day	4	Sep	10.3
Map No. 1030B3	5	Oct	11.1
Elevation: 1380 m	6	Nov	11.2
Grid Ref.: N=8839Km900m E=246Km500m	7	95Feb	10.5
	8	Mar	5.4
Maximum Groundwater Level Fluctuation(m) 5.8			
Province: Northern	Aquifer: Shale		
District: Kasama			
Site Name:	No.	Month	G.W.L.(GL-m)
Mukonge R.Camp	1	94May	
Diameter: 1400 mm	2	Jun	9.0
Depth: 13.24 m	3	Jul	11.1
Yield: l/day	4	Sep	11.7
Map No. 1030B3	5	Oct	11.9
Elevation: 1420 m	6	Nov	12.3
Grid Ref.: N=8860Km650m E=250Km300m	7	95Feb	12.8
	8	Mar	11.2
Maximum Groundwater Level Fluctuation(m) 3.8			
Province: Northern	Aquifer: Shale		
District: Mporokosb			
Site Name:	No.	Month	G.W.L.(GL-m)
Mukolwe R.H.C	1	94May	
Diameter: 1400 mm	2	Jun	
Depth: 7.84 m	3	Jul	3.3
Yield: l/day	4	Sep	3.7
Map No. 0930B3	5	Oct	4.2
Elevation: 1430 m	6	Nov	5.1
Grid Ref.: N=8950Km600m E=233Km750m	7	95Feb	3.5
	8	Mar	2.6
Maximum Groundwater Level Fluctuation(m) 2.5			

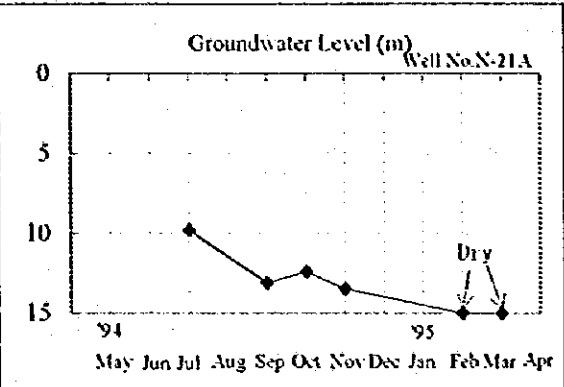


Appendix 8(12) Result of Observation

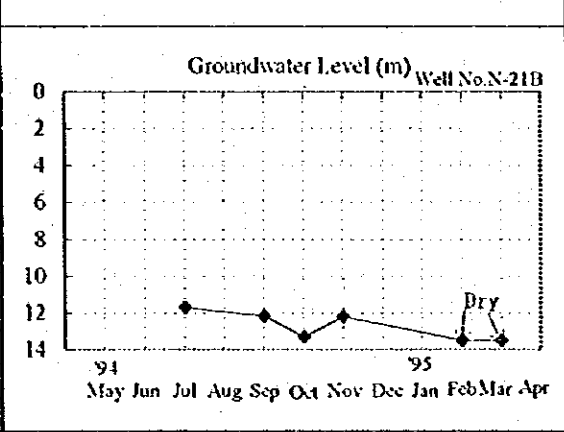
Province: Nortern	Aquifer: Shale			<p>Groundwater Level (m) Well No.N-19A</p>
District: Mporokoso	No.	Month	G.W.L.(GL-m)	
Site Name: Mutamba Vil.	1	94May		
Diameter: 1400 mm	2	Jun	6.7	
Depth: m	3	Jul	7	
Yield: l/day	4	Sep	7.3	
Map No. 0930A3	5	Oct	7.6	
Elevation: 1425 m	6	Nov	7.85	
Grid Ref.: N=8958Km900m	7	95Feb	7.9	
E=176Km300m	8	Mar	6.7	
Maximum Groundwater Level Fluctuation(m) 1.2				<p>Groundwater Level (m) Well No.N-19B</p>
Province: Nortern	Aquifer: Shale			
District: Mporokoso	No.	Month	G.W.L.(GL-m)	
Site Name: Kashinda P.Sch.	1	94May		
Diameter: 1400 mm	2	Jun	5.1	
Depth: m	3	Jul	5.4	
Yield: l/day	4	Sep	6.1	
Map No. 0930A3	5	Oct	6.95	
Elevation: 1430 m	6	Nov	9.35	
Grid Ref.: N=8965Km150m	7	95Feb	6.65	
E=181Km500m	8	Mar	2.54	
Maximum Groundwater Level Fluctuation(m) 6.81				<p>Groundwater Level (m) Well No.N-20A</p>
Province: Nortern	Aquifer: Meta			
District: Kaputa	No.	Month	G.W.L.(GL-m)	
Site Name: Sumbu Market	1	94May		
Diameter: 1400 mm	2	Jun		
Depth: 4.5 m	3	Jul	3.98	
Yield: l/day	4	Sep	4.15	
Map No. 0830C2	5	Oct	4.35	
Elevation: m	6	Nov	3.63	
Grid Ref.: N=9057Km400m	7	95Feb	2.45	
E=222Km500m	8	Mar	Dry	
Maximum Groundwater Level Fluctuation(m) 1.9				<p>Groundwater Level (m) Well No.N-20B</p>
Province: Nortern	Aquifer: Meta			
District: Kaputa	No.	Month	G.W.L.(GL-m)	
Site Name: Camp Vil.	1	94May	3.47	
Diameter: 1400 mm	2	Jun	3.47	
Depth: 3.97 m	3	Jul	3.47	
Yield: l/day	4	Sep	2.86	
Map No. 0930A1	5	Oct	4.24	
Elevation: 1180 m	6	Nov	2.37	
Grid Ref.: N=8997Km650m	7	95Feb	2.39	
E=181Km300m	8	Mar	1.04	
Maximum Groundwater Level Fluctuation(m) 3.2				

Appendix 8(13) Result of Observation

Province: Northern	Aquifer: Gneiss		
District: Isoka			
Site Name: Trenderé S.C.	No.	Month	G.W.L.(GL-m)
	1	94May	
Diameter: mm	2	Jun	
Depth: m	3	Jul	9.8
Yield: l/day	4	Sep	13.1
Map No. 1033A4	5	Oct	12.4
Elevation: 1490 m	6	Nov	13.5
Grid Ref.: N=8865Km800m E=540Km500m	7	95Feb	Dry
	8	Mar	Dry



Maximum Groundwater Level Fluctuation(m) 3.7			
Province: Northern	Aquifer: Gneiss		
District: Isoka			
Site Name: Trenderé R.H.C	No.	Month	G.W.L.(GL-m)
	1	94May	
Diameter: 1000 mm	2	Jun	
Depth: 13.5 m	3	Jul	11.7
Yield: l/day	4	Sep	12.2
Map No. 1033A4	5	Oct	13.3
Elevation: 1520 m	6	Nov	12.2
Grid Ref.: N=8866Km100m E=541Km250m	7	95Feb	Dry
	8	Mar	Dry
Maximum Groundwater Level Fluctuation(m) 1.6			



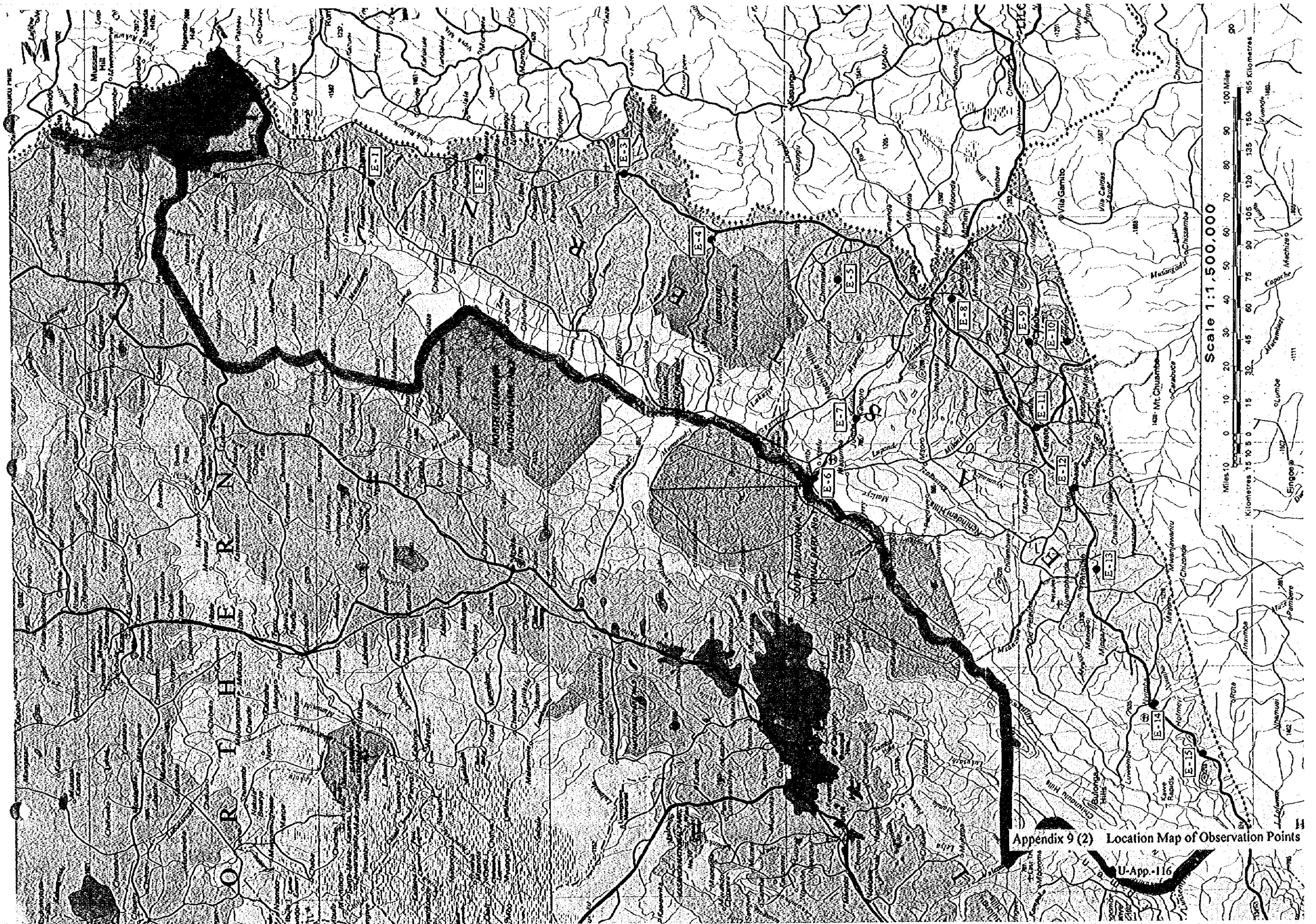
Appendix 9

Observation Result in Eastern Province

Appendix 9 (1) List of Observation Points

< Eastern Province >

Point No.	Well No.	Geology	Elevation (m)	District	Site Name
E - 1	A	Alluvium	760	Chama	Rhama Hos.
	B	Alluvium	755		Bazimo
E - 2	A	Gneiss	1131	Lundazi	Mwata Sch.
	B	Gneiss	1120		Mwata Rhc.
E - 3	A	Gneiss	1130	Lundazi	Council
	B	Gneiss	1130		Mulla Sch.
E - 4	A	Gneiss	1102	Lundazi	Chikomene W/L
	B	Gneiss	1100		Chikomene Vil.
E - 5	A	Granite	1002	Chipata	Chimwala
	B	Granite			Chipangali
E - 6	A	Alluvium	540	Kakunbi	Yosefu Sch.
	B	Alluvium	540		Kakunbi
E - 7	A	Sandstone	600	Junbe	Junbe Vil.
	B	Sandstone	600		Manondo
E - 8	A	Granite	1100	Chipata	Maguya
	B	Gneiss	1140		Nabvutika
E - 9	A	Granite	1044	Chadiza	Kumadzi Vil.
	B	Granite	1052		Chadiza Sec.
E - 10	A	Granite	1049	Chadiza	Chzombe
	B	Granite	1055		Basic Sch.
E - 11	A	Gneiss	1061	Katette	Basic Sch.
	B	Gneiss	1052		Katete Boma
E - 12	A	Gneiss	1100	Sinda	Post Off.
	B	Granite	1040		Chassa
E - 13	A	Gneiss	970	Petauke	Khande
	B	Gneiss	1018		Ifosi
E - 14	A	Gneiss	708	Myimba	Basic Sc.
	B	Gneiss	718		Nyimba Boma
E - 15	A	Granite	880	Kacholola	Mombe Sch.
	B	Granite	890		Mwana

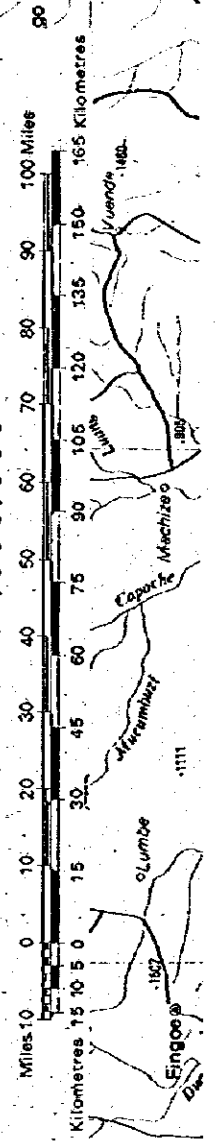


ORINOCO RIVER

SOUTH AMERICAN NATIONAL PARK

Appendix 9 (2) Location Map of Observation Points

U.S. GEOLOGICAL SURVEY U-App-116





Appendix 9 (2) Location Map of Observation Points

U-App-116