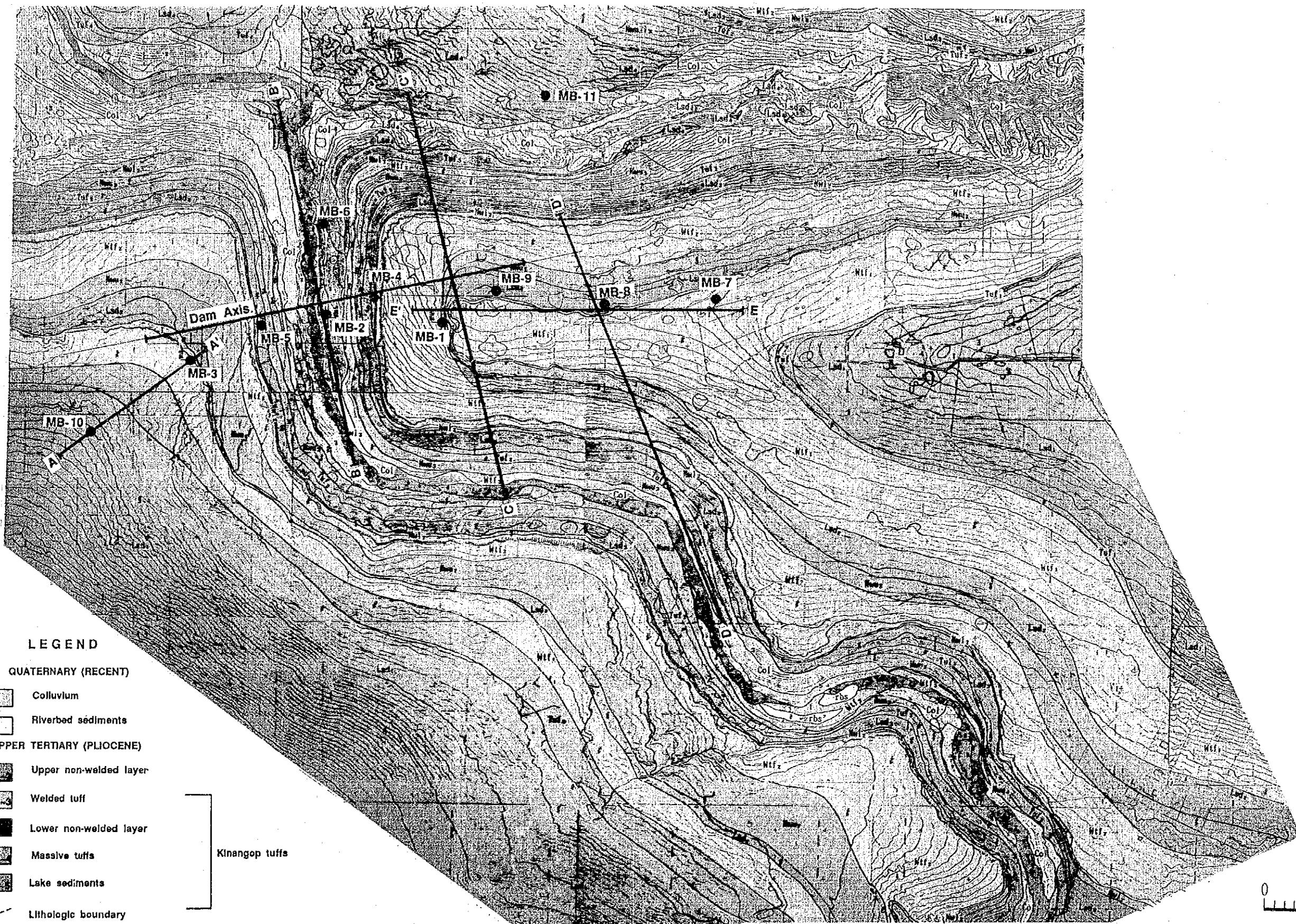


Fig. B.3.3



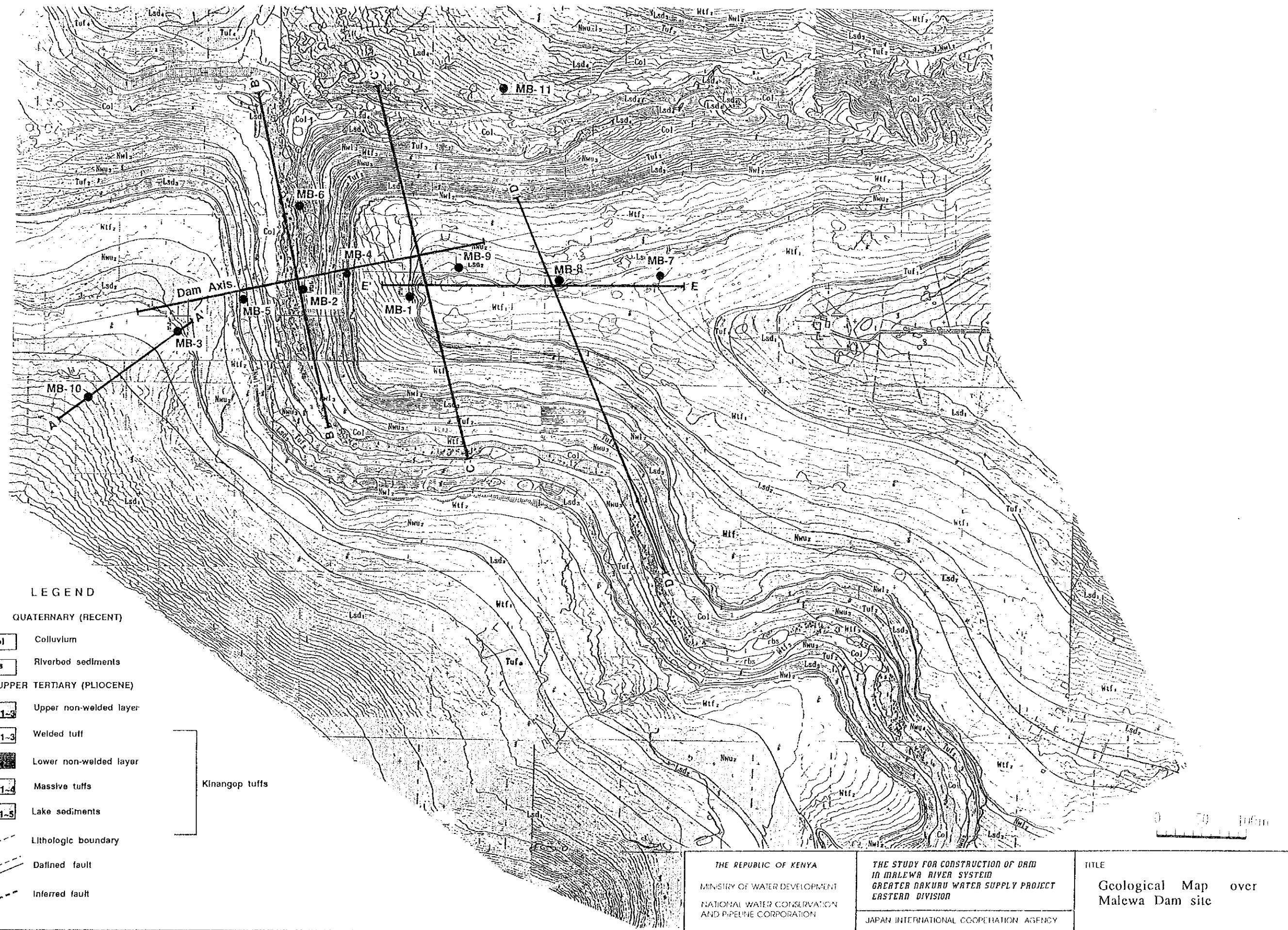
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GREATER NAKURU WATER SUPPLY PROJECT
EASTERN DIVISION

JAPAN INTERNATIONAL COOPERATION AGENCY

TITLE
Geological Map over
Malewa Dam site

Fig. B.3.3



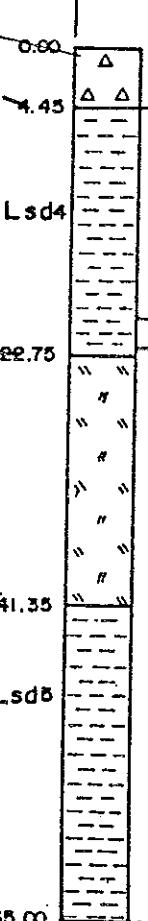
Geological

Dam Crest EL

B - E

MB

(EL)



Lsd4

Tuf3

Lsd5

41.35

65.00

SCALE
(m)

0 10 20 30 40 50

Xinengop tufts



Tuf3

QUATERNARY (RECENT)

Col Colluvium

rbs Riverbed sediments

UPPER TERTIARY (PLIOCENE)

Nwu₁₋₂ Upper non-welded layer

Wtf₁₋₃ Welded tuff

Nwl₁₋₂ Lower non-welded layer

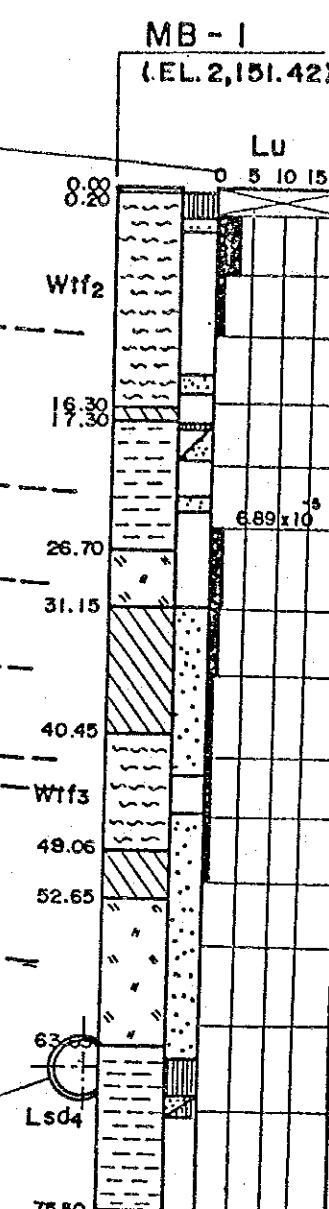
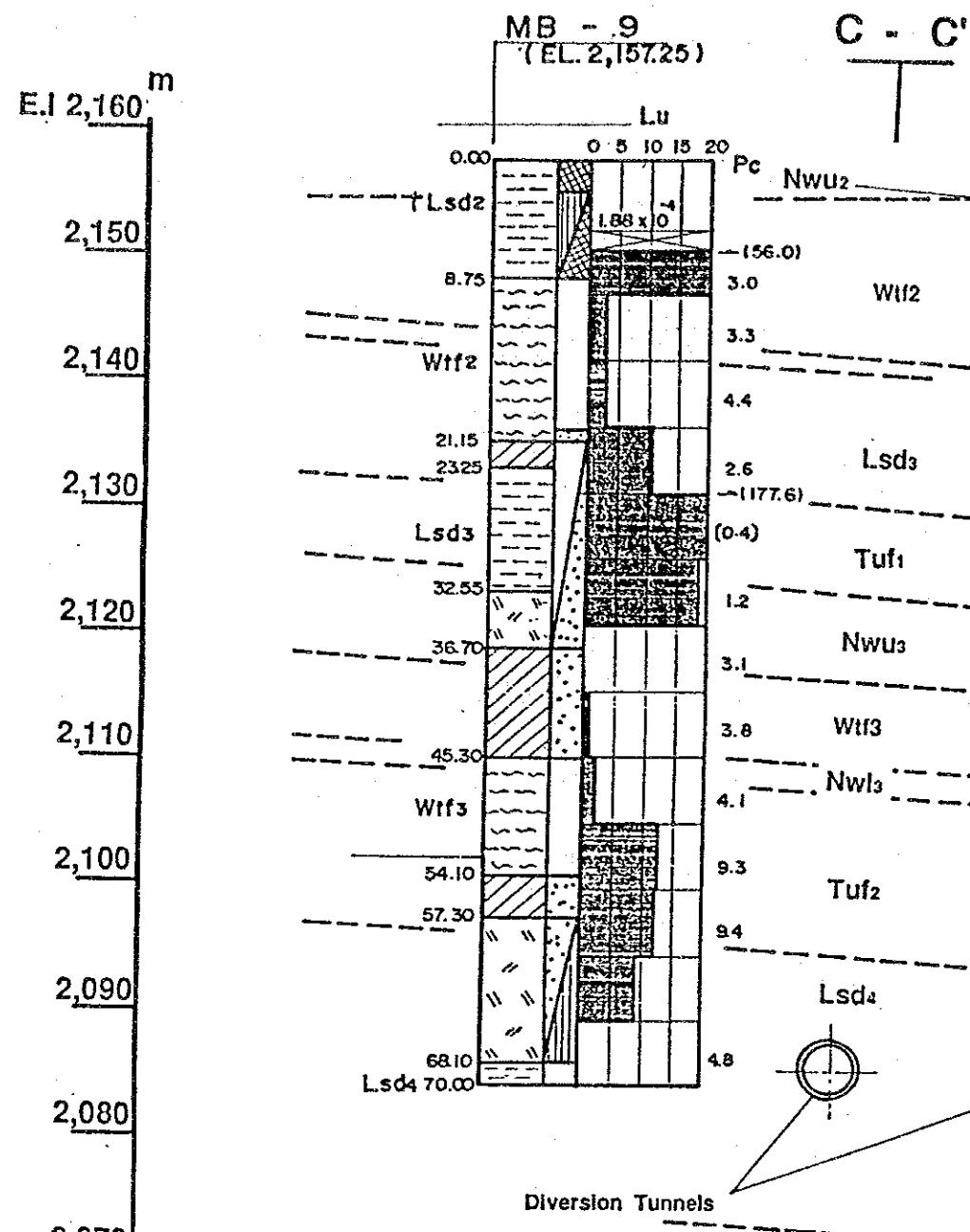
Tuf₁₋₂ Massive tuff

Lsd₁₋₅ Lake sediments

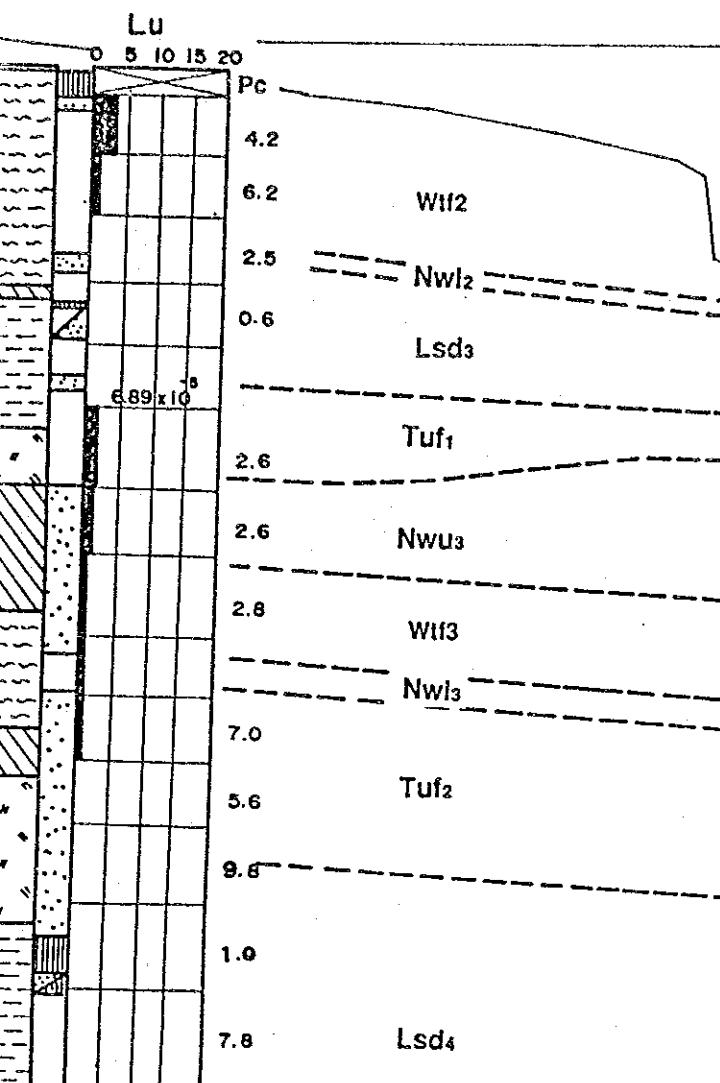
Lithologic boundary

Defined fault

Inferred fault



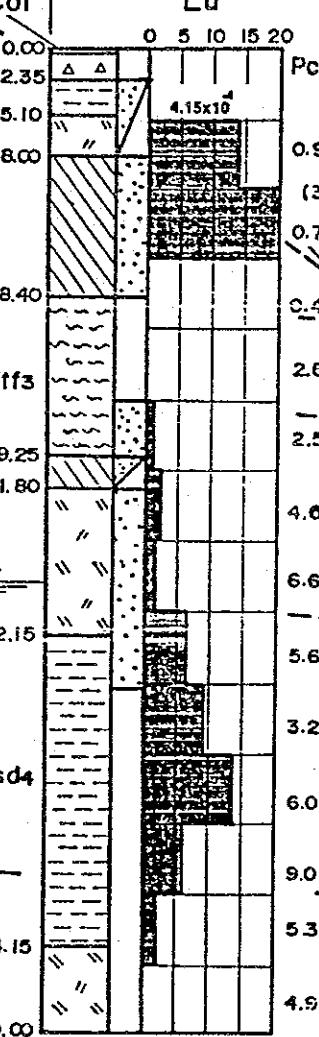
MB - 1
(EL. 2,151.42)



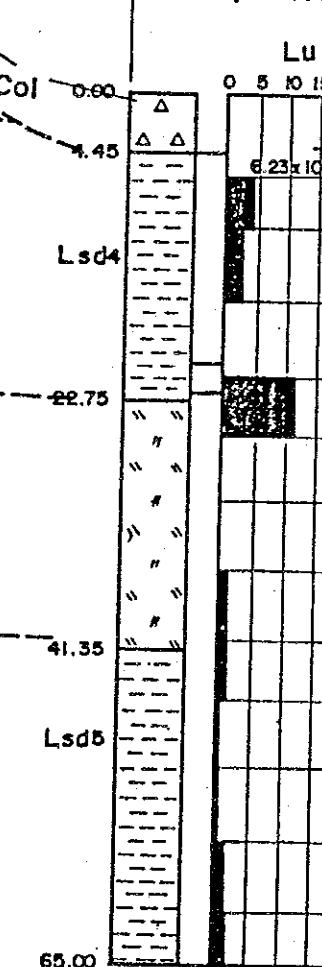
Geological Profile (Dam Axis)

Dam Crest EL.2,154.00m

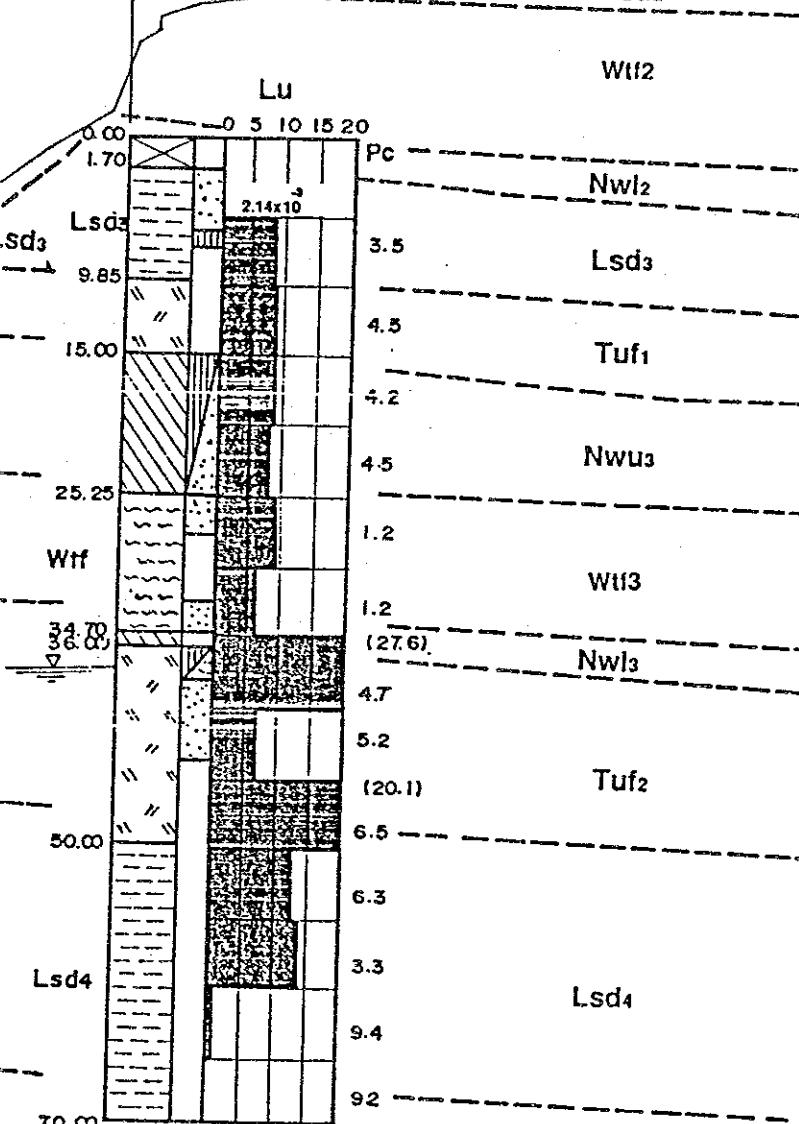
MB - 4
(EL. 2,129.77)



MB - 2
(EL. 2,087.83)



MB - 5
(EL. 2,131.97)



SCALE
20 30 40 50 (m)

Fig. B.3.4

Profile (Dam Axis)

2,154.00m

B'

B - 2

2,087.83

Lu

0 5 10 15 20

PC

6.23x10⁻⁵

4.4

6.4

8.4

Lsd4

Lu
0 5 10 15 20
PC
6.23x10⁻⁵
4.4
6.4
8.4
50.00
34.70
36.00
1.2
1.2
(27.6)
4.7
5.2
(20.1)
6.5
6.3
3.3
9.4
9.2

Tuf3

MB - 5
(EL. 2,131.97)Lu
0 5 10 15 20
Wtf1
3.05
1.70
9.85
15.00
25.25
34.70
36.00
1.2
1.2
(27.6)
4.7
5.2
(20.1)
6.5
6.3
3.3
9.4
9.2Lsd2
10.70
14.00
Wtf2
25.50
27.90
3.5
4.5
Tuf1
36.85
41.69
Nwu3
50.65
Wtf3
1.2
Wtf3
61.60
64.70
70.55Col
Lsd3
Lu
0 5 10 15 20
Wtf1
3.05
1.70
9.85
15.00
25.25
34.70
36.00
1.2
1.2
(27.6)
4.7
5.2
(20.1)
6.5
6.3
3.3
9.4
9.2Lsd2
10.70
14.00
Wtf2
25.50
27.90
3.5
4.5
Tuf1
36.85
41.69
Nwu3
50.65
Wtf3
1.2
Wtf3
61.60
64.70
70.55MB - 3
(EL. 2,153.33)

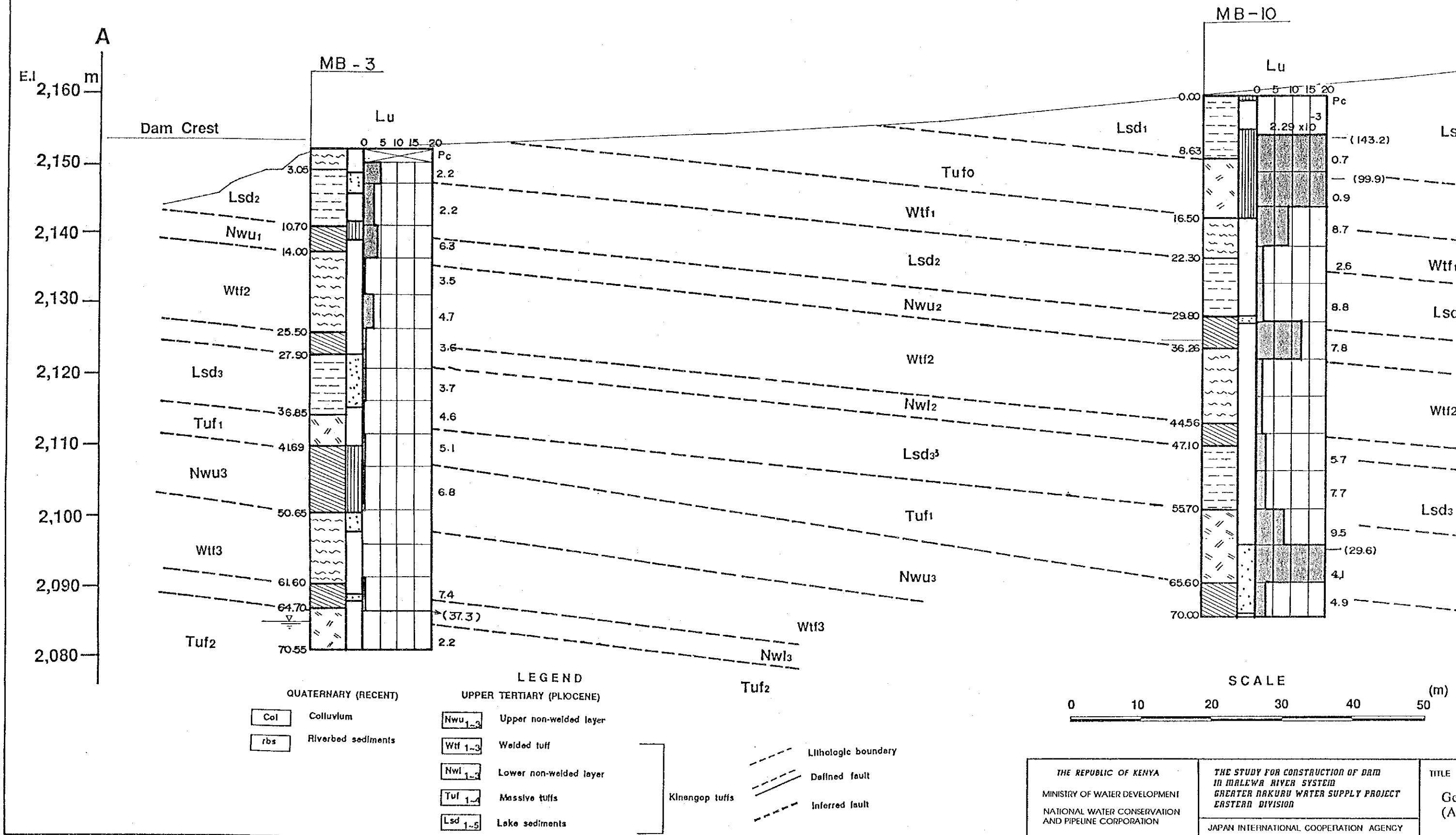
Lu
0 5 10 15 20
Wtf1
3.05
1.70
9.85
15.00
25.25
34.70
36.00
1.2
1.2
(27.6)
4.7
5.2
(20.1)
6.5
6.3
3.3
9.4
9.2

Pc
2.2
Lsd2
2.2
6.3
Nwu2
3.5
4.7
Wtf2
25.50
27.90
3.5
4.5
Lsd3
36.85
41.69
Nwu3
50.65
Wtf3
1.2
Wtf3
61.60
64.70
70.55

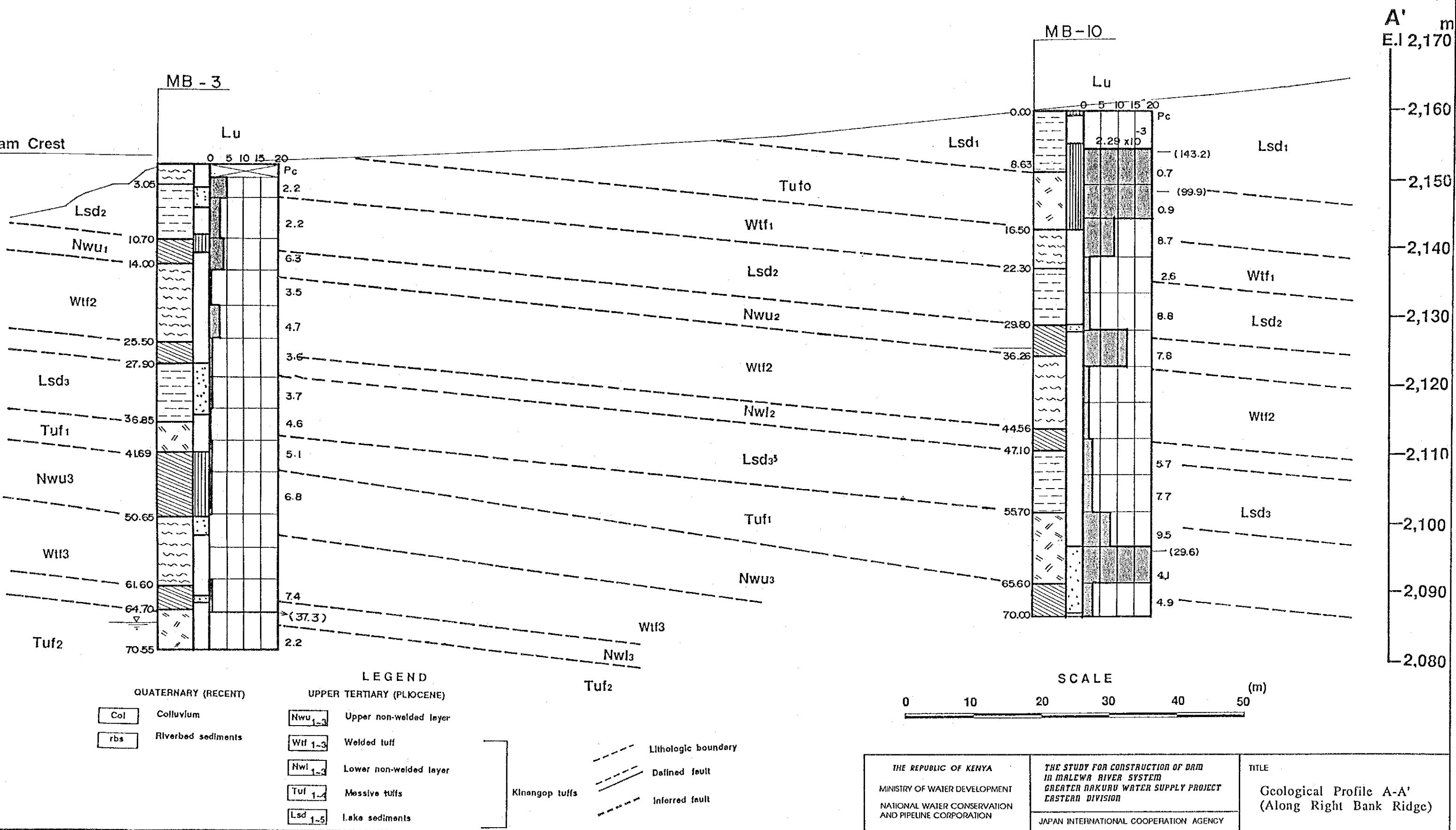
E.I 2,160 m

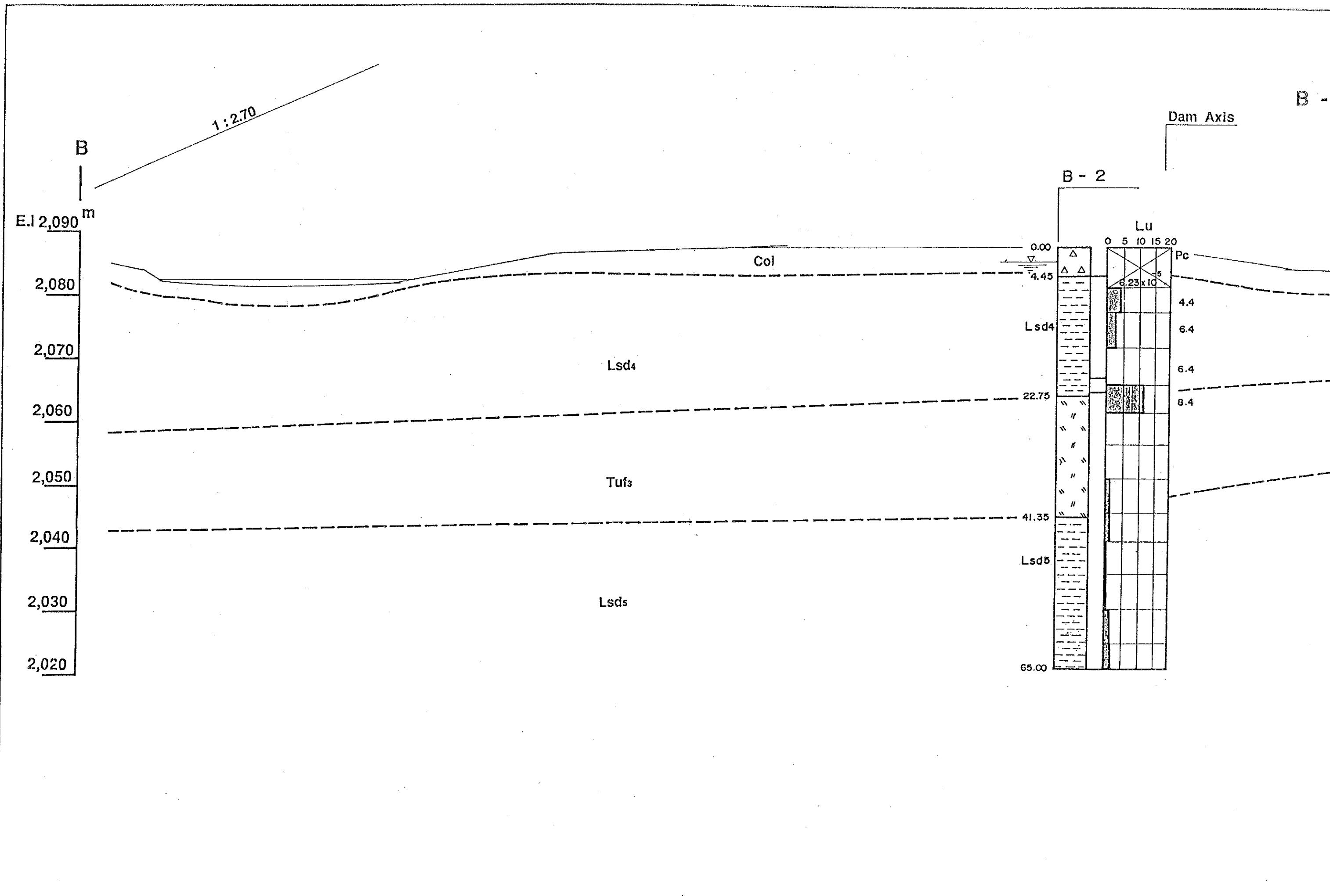
2,150
2,140
2,130
2,120
2,100
2,110
2,090
2,080
2,070
2,060

A - A' Geological Profile (Along Right Bank Ridge)

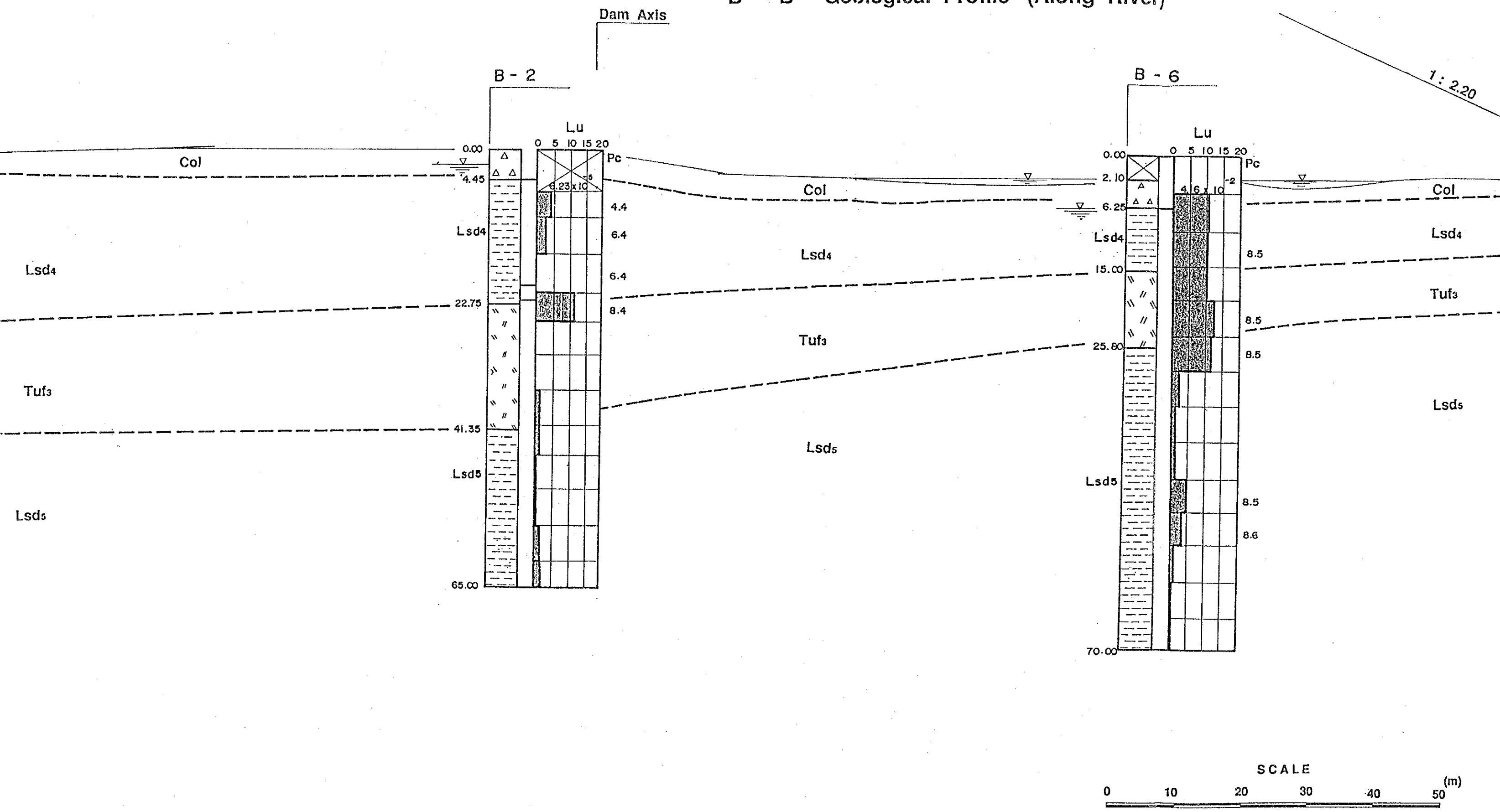


A - A' Geological Profile (Along Right Bank Ridge)

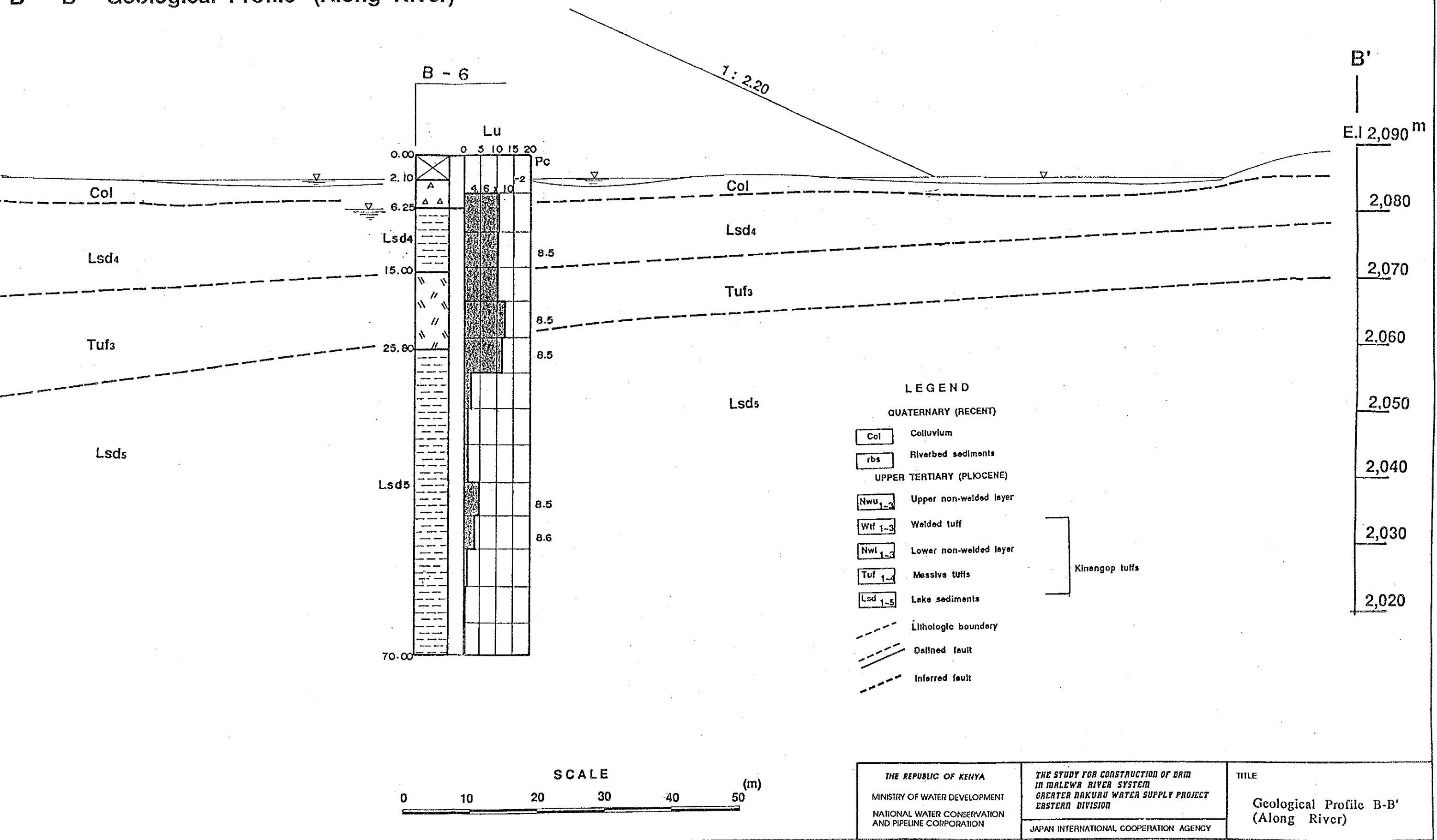


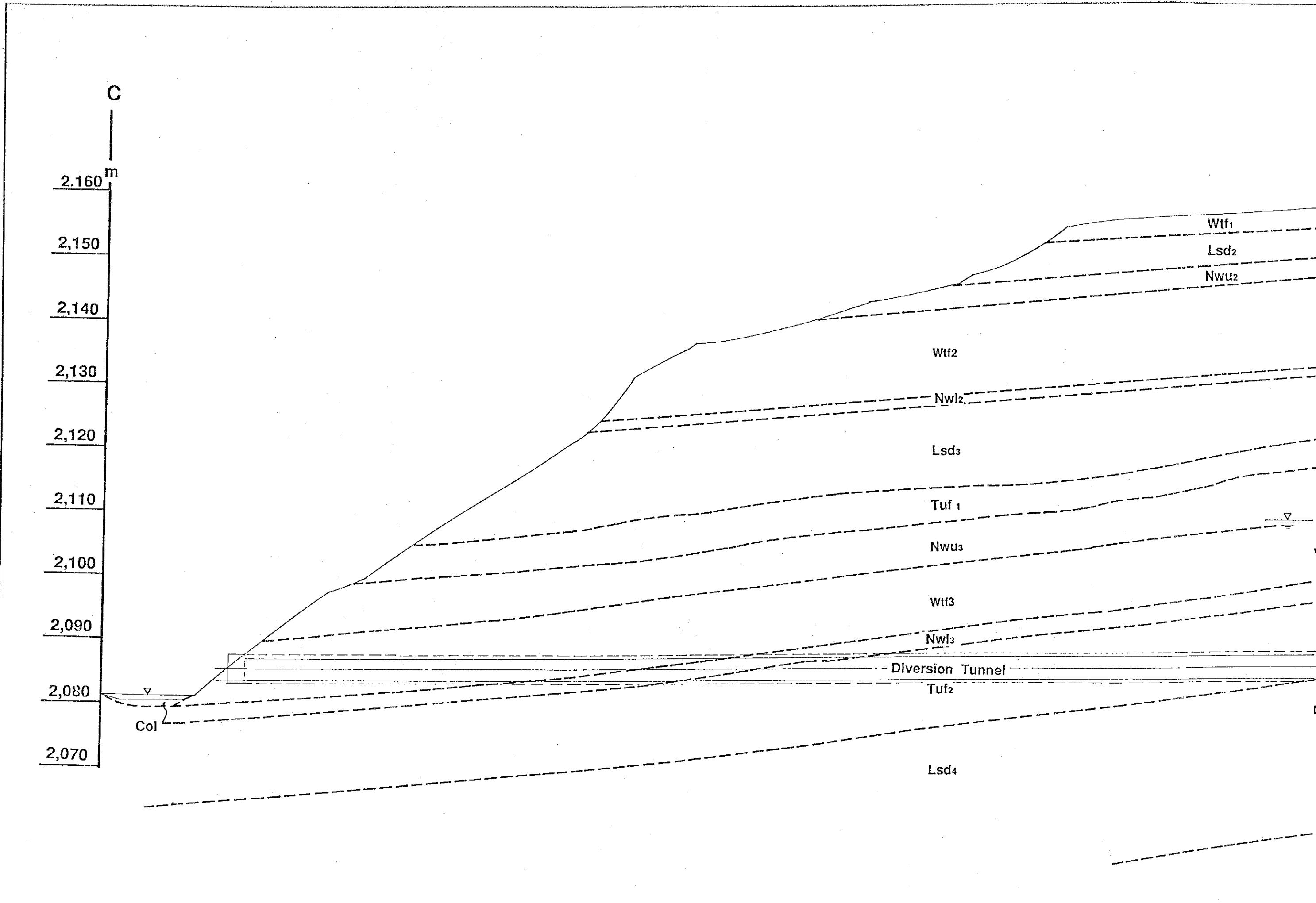


B - B' Geological Profile (Along River)

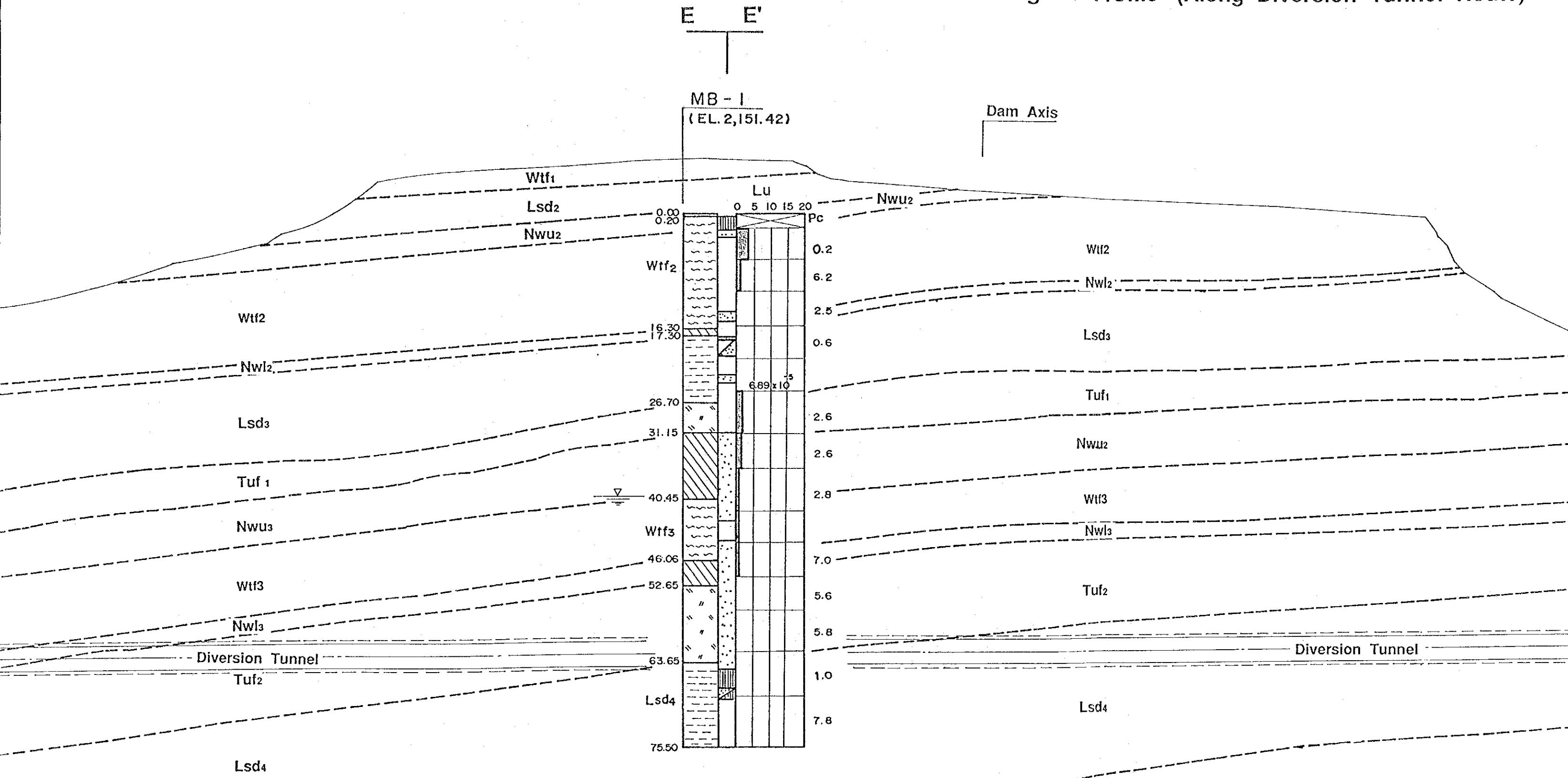


B - B' Geological Profile (Along River)

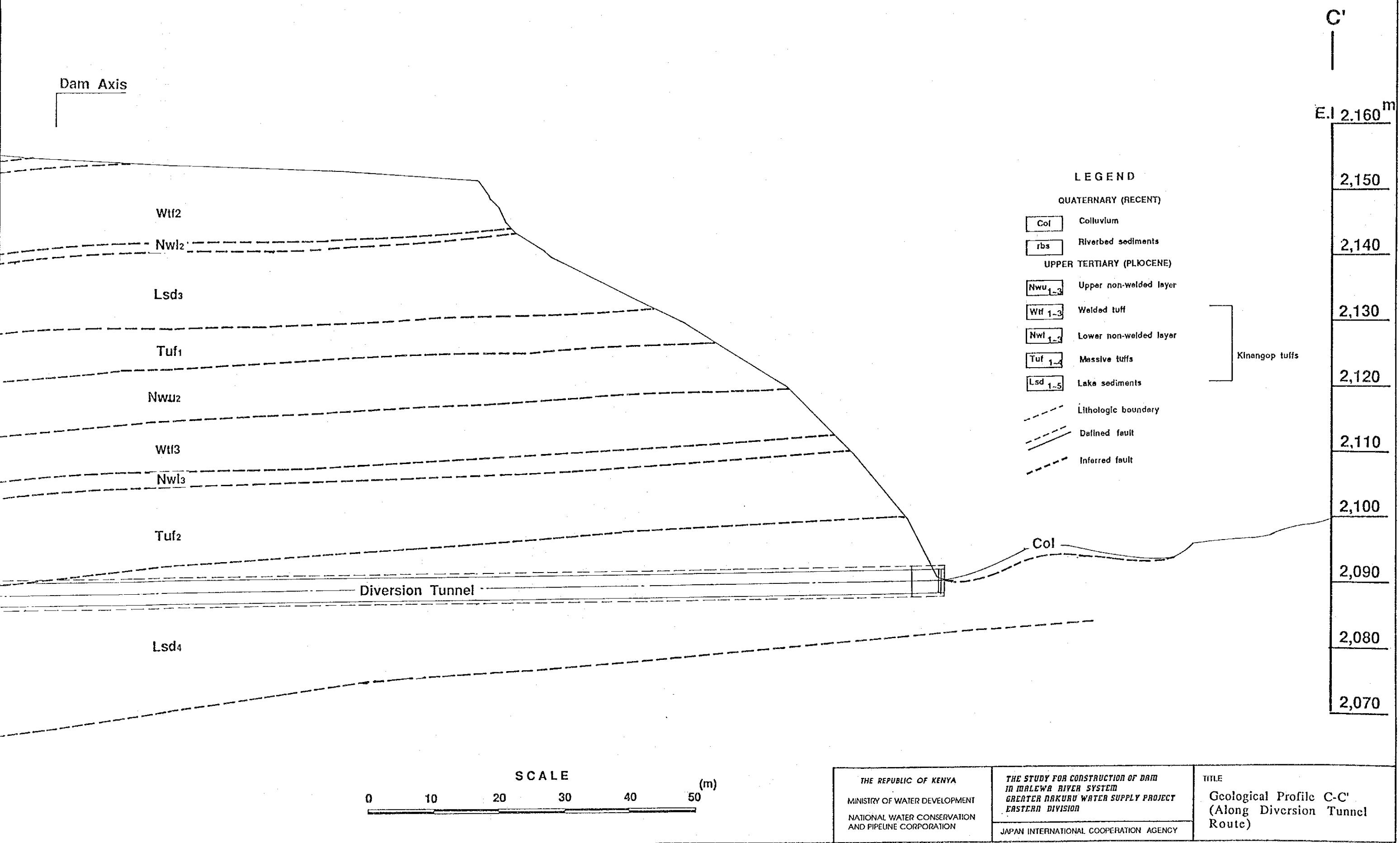




C - C' Geological Profile (Along Diversion Tunnel Route)



C' Geological Profile (Along Diversion Tunnel Route)



D
|
E.I
2,160 m
2,150
2,140
2,130
2,120
2,110
2,100
2,090
2,080
2,070

LEGEND

QUATERNARY (RECENT)

Col Colluvium

rbs Riverbed sediments

UPPER TERTIARY (PLIOCENE)

Nwu₁₋₃ Upper non-welded layer

Wtf 1-3 Welded tuff

Nwl₁₋₃ Lower non-welded layer

Tuf 1-4 Massive tuffs

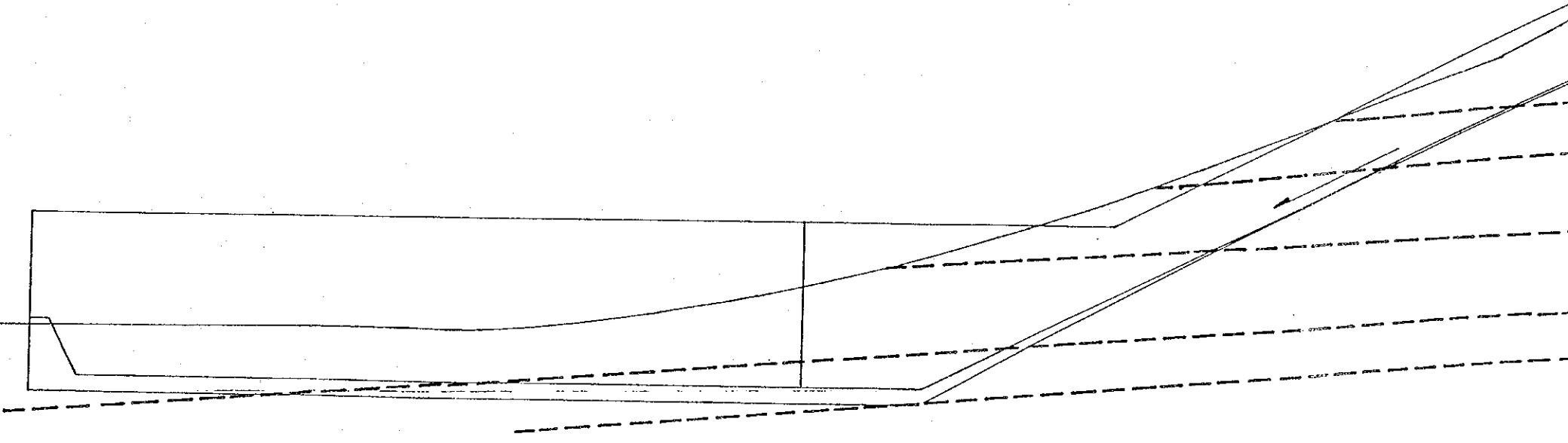
Lsd 1-5 Lake sediments

Kinangop tuffs

Lithologic boundary

Defined fault

Inferred fault



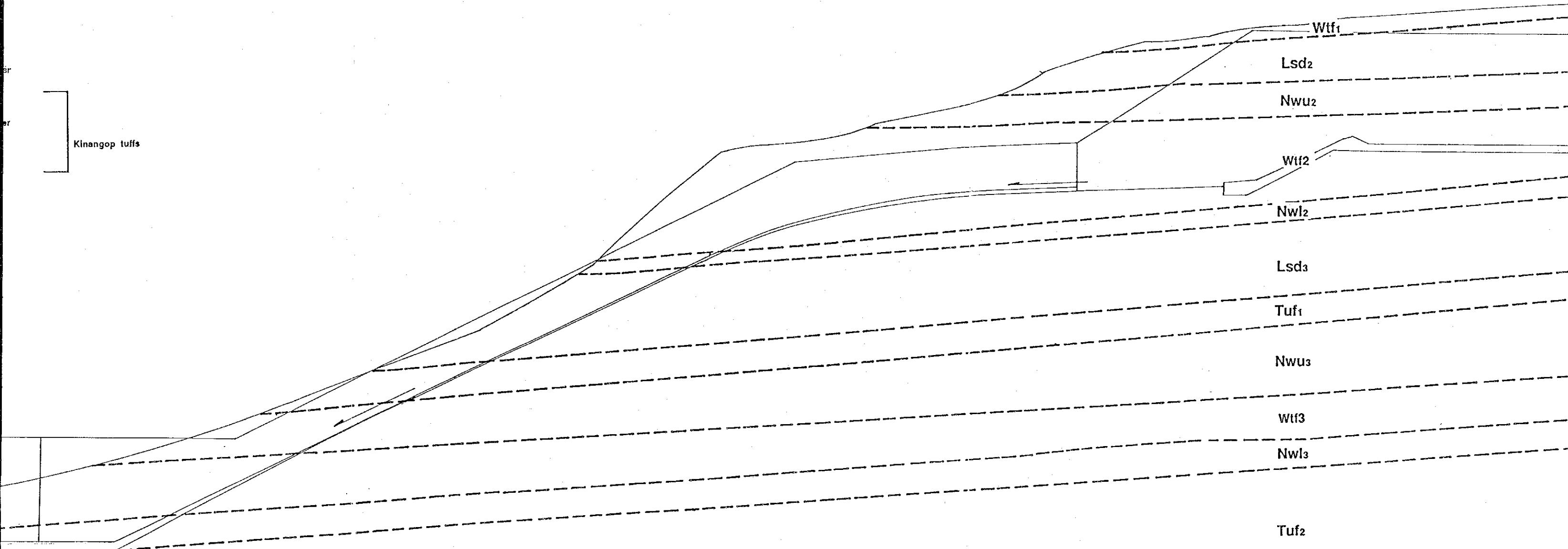
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ESTERN DIVISION

JAPAN INTERNATIONAL COOPERATION AGENCY

TITLE

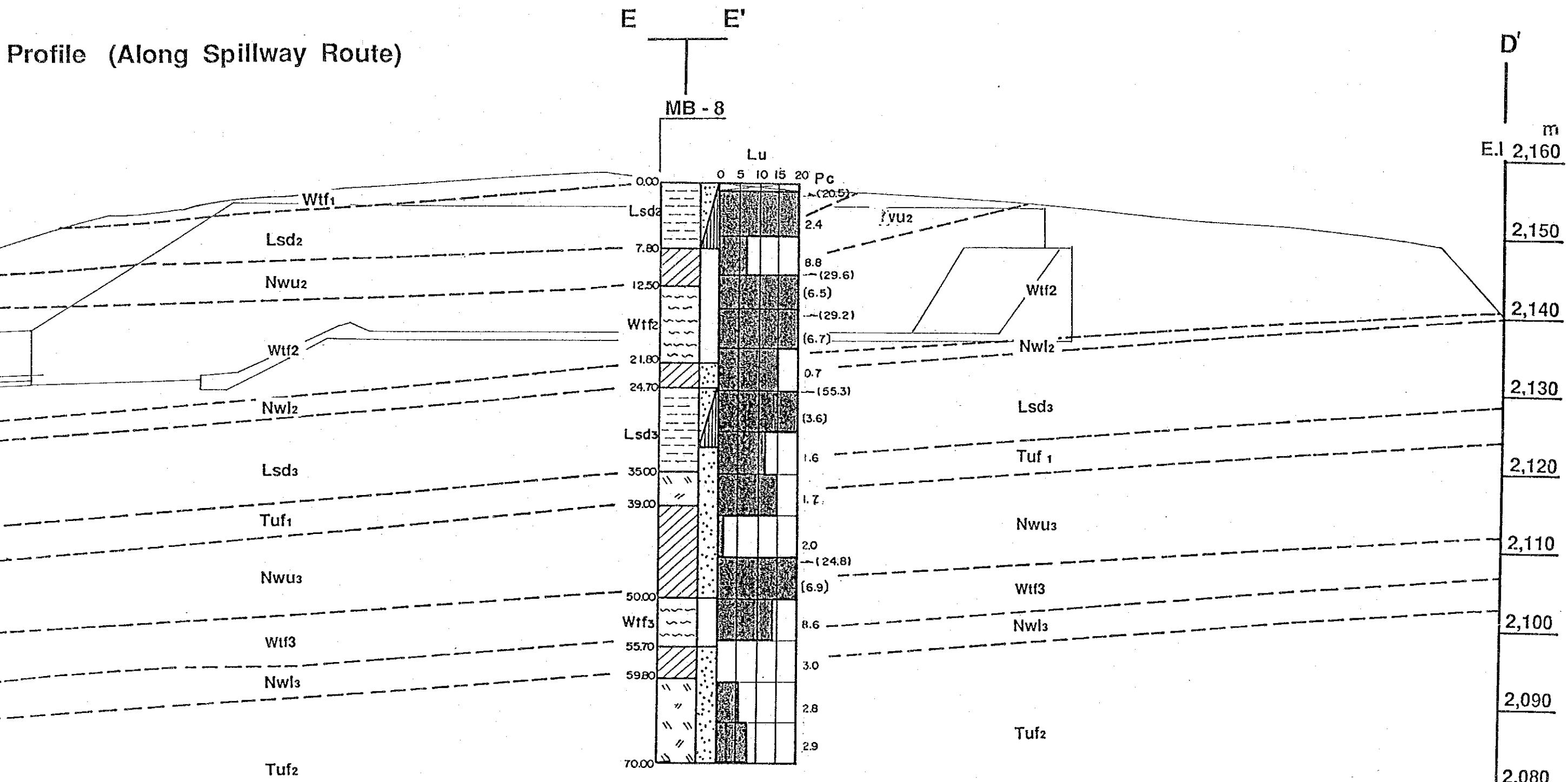
D - D' Geological Profile (Along Spillway Route)



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DN	JAPAN INTERNATIONAL COOPERATION AGENCY	

0 10

Profile (Along Spillway Route)



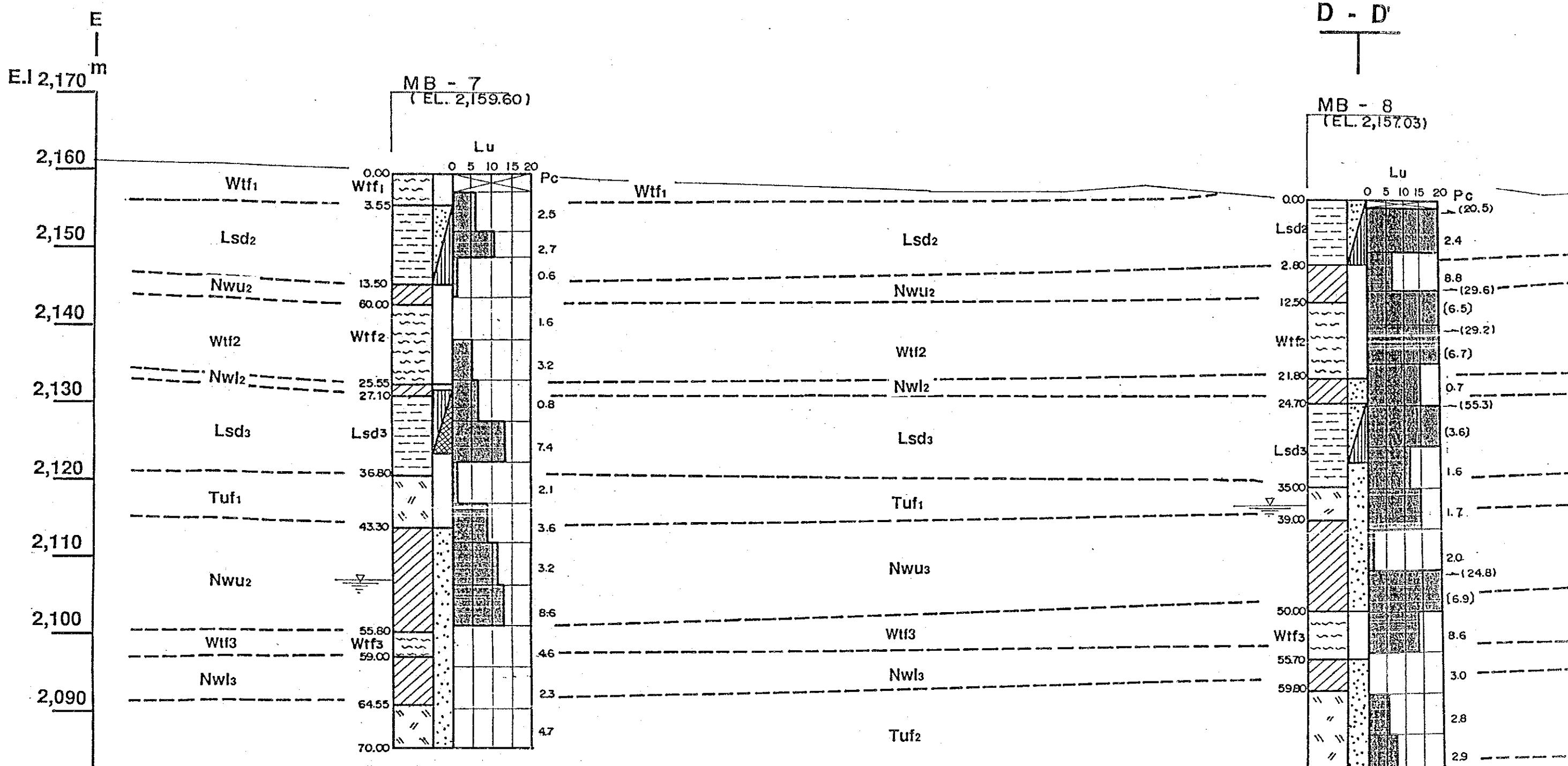
SCALE
0 10 20 30 40 50 (m)

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Geological Profile D-D'
(Along Spilway Route)

E - E' Geological Profile (Along Line)



LEGEND

QUATERNARY (RECENT)	
Col	Colluvium
rbs	Riverbed sediments

UPPER TERTIARY (PLIOCENE)	
Nwu ₁₋₃	Upper non-welded layer
Wtf ₁₋₃	Welded tuff
Nwl ₁₋₃	Lower non-welded layer
Tuf ₁₋₄	Massive tuffs
Lsd ₁₋₅	Lake sediments

Kinangop tuffs

Lithologic boundary

Defined fault

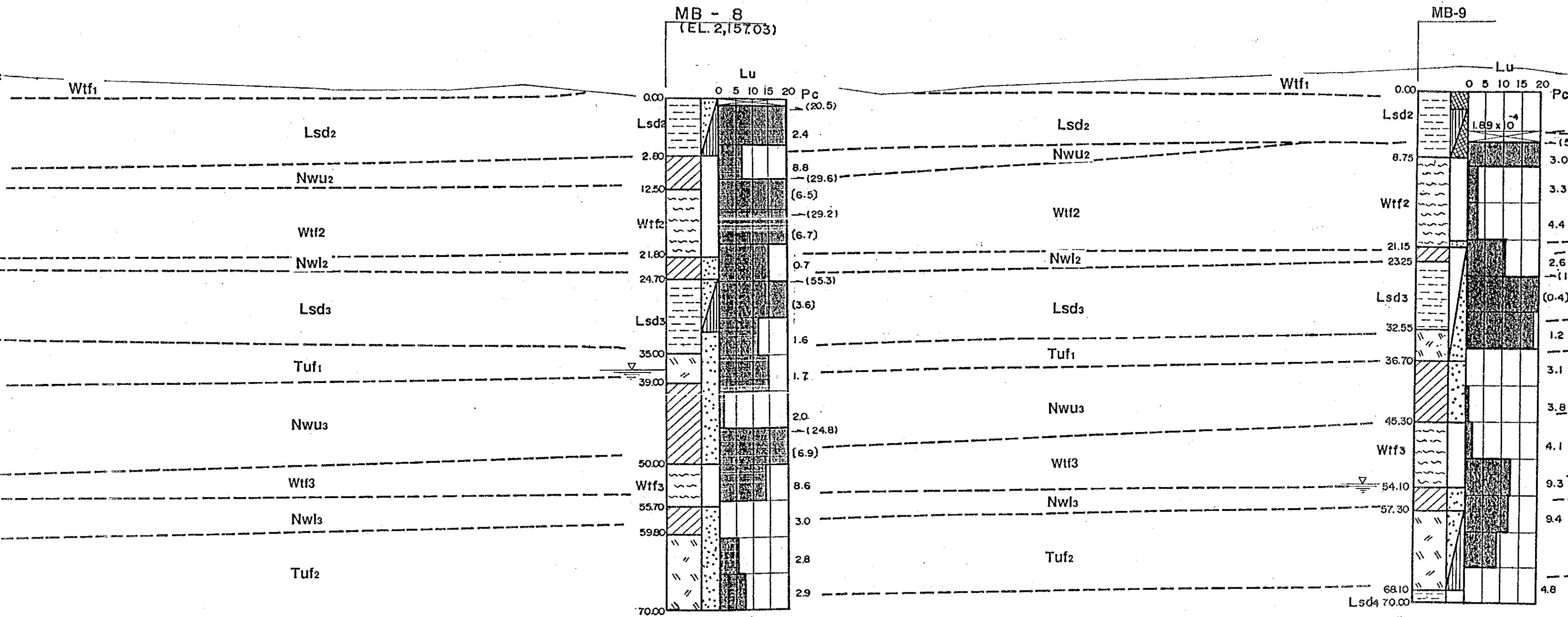
Inferred fault

SCALE

0 10 20 30

E - E' Geological Profile (Along Left Bank Ridge)

$$D = D'$$



LEGEND

UPPER TERTIARY (PLIOCENE)

Nwu 1-3 Upper non-welded layer

Wtf 1-3 Welded tuff

Nwl 1-3 Lower non-welded layer

Tuf 1-4 Massive tuff.

Lsd 1-5 Lake sediments

Klnangop tuffs

Lithologic boundary
Defined fault
Inferred fault

A scale bar with markings at 0, 10, 20, 30, 40, and 50 meters. The word "SCALE" is written above the 20 mark, and "(m)" is written at the end of the 50 mark.

MIN
NA
AN

Fig. B.3.9

Geological Profile (Along Left Bank Ridge)

D - D'

C - C'

E' - E'

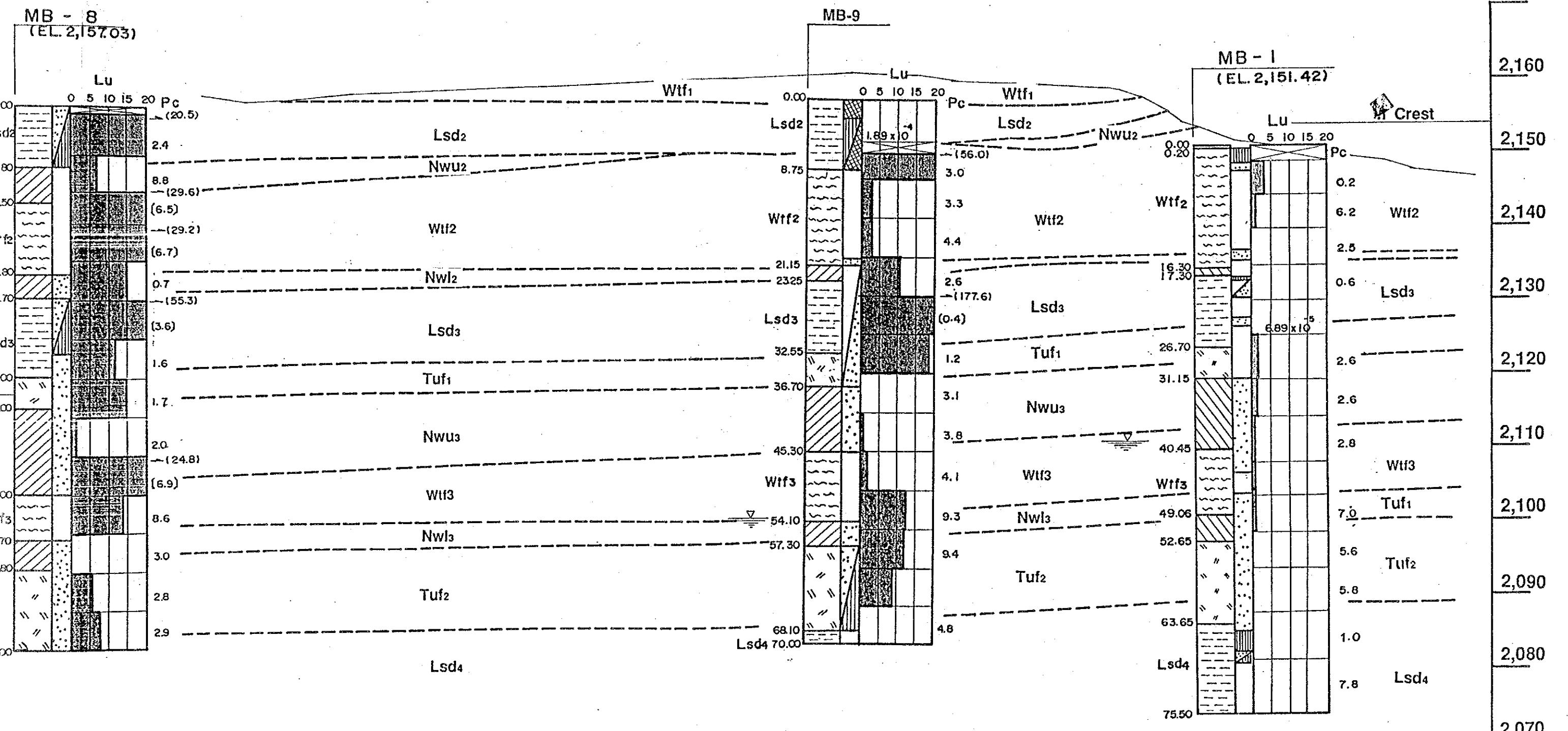
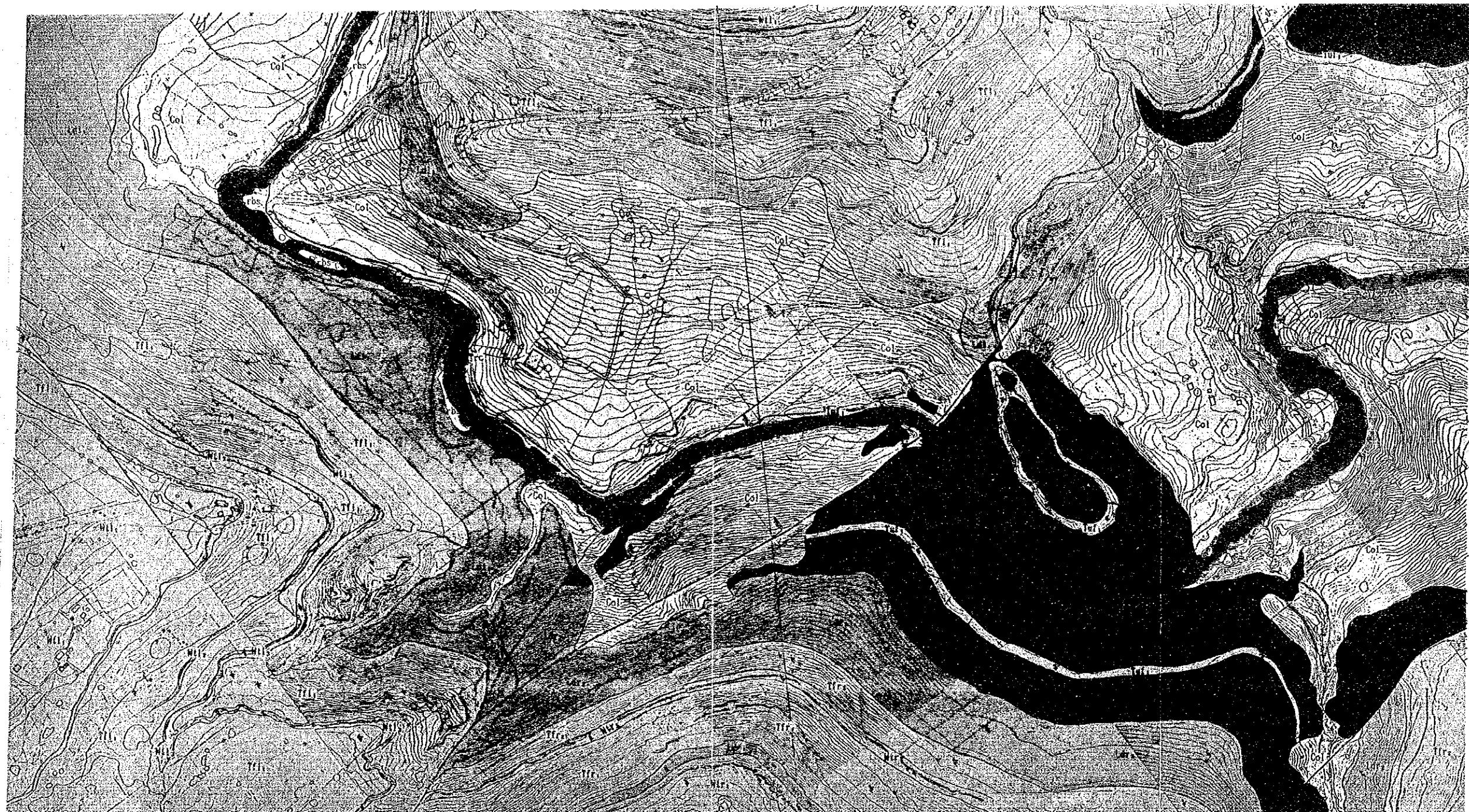


Fig. B.3.10



LEGEND

QUATERNARY (RECENT)

col Colluvium

rbs Riverbed sediments

TuF

Massive tuffs

Trachyte

North Kinangop Trachytes

0 50 100m

UPPER TERTIARY (PLOCENE)

Wt₁ Wt₂ Welded tuff

Mt₁ Mt₂ Massive tuffs
partially include stratified tuffs

Ls₁ Ls₂ Lake sediments

Kinangop
Tuffs

Lithologic boundary

Defined fault

Inferred fault

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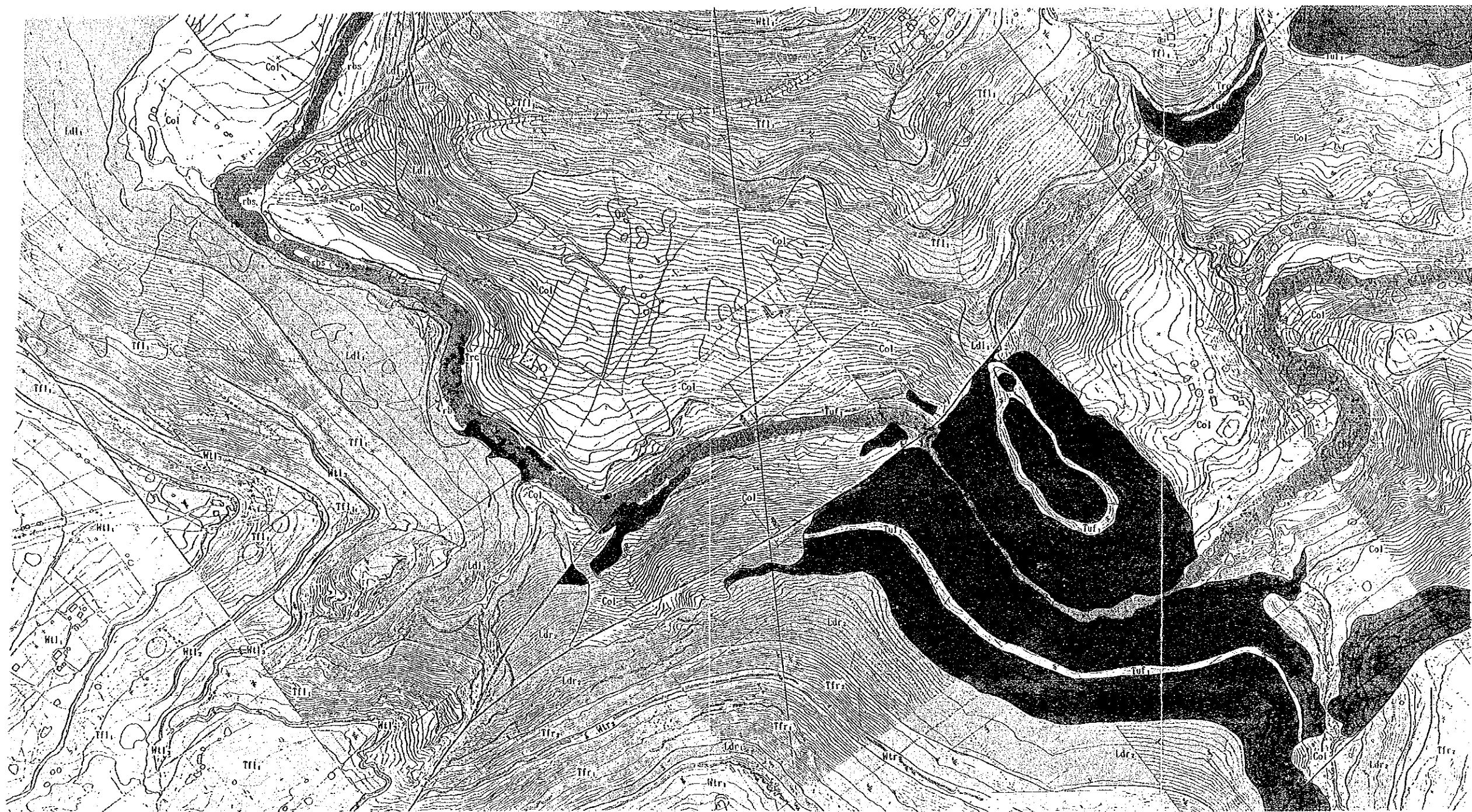
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Geological Map over
Turasha Dam Site

Fig. B.3.10



LEGEND

QUATERNARY (RECENT)

col Colluvium

rbs Riverbed sediments

Tuf.

Massive tuffs

Tre

Trachyte

North Kinangop Trachytes

0 50 100m

UPPER TERTIARY (PLOCENE)

WT₁₋₃ WT₁₋₂ Welded tuff

TH₁ TH₁₋₂ Massive tuffs
partially include stratified tuffs

Ldi Ldi₁₋₂ Luke sediments

Kinangop
Tuffs

Lithologic boundary

Defined fault

Inferred fault

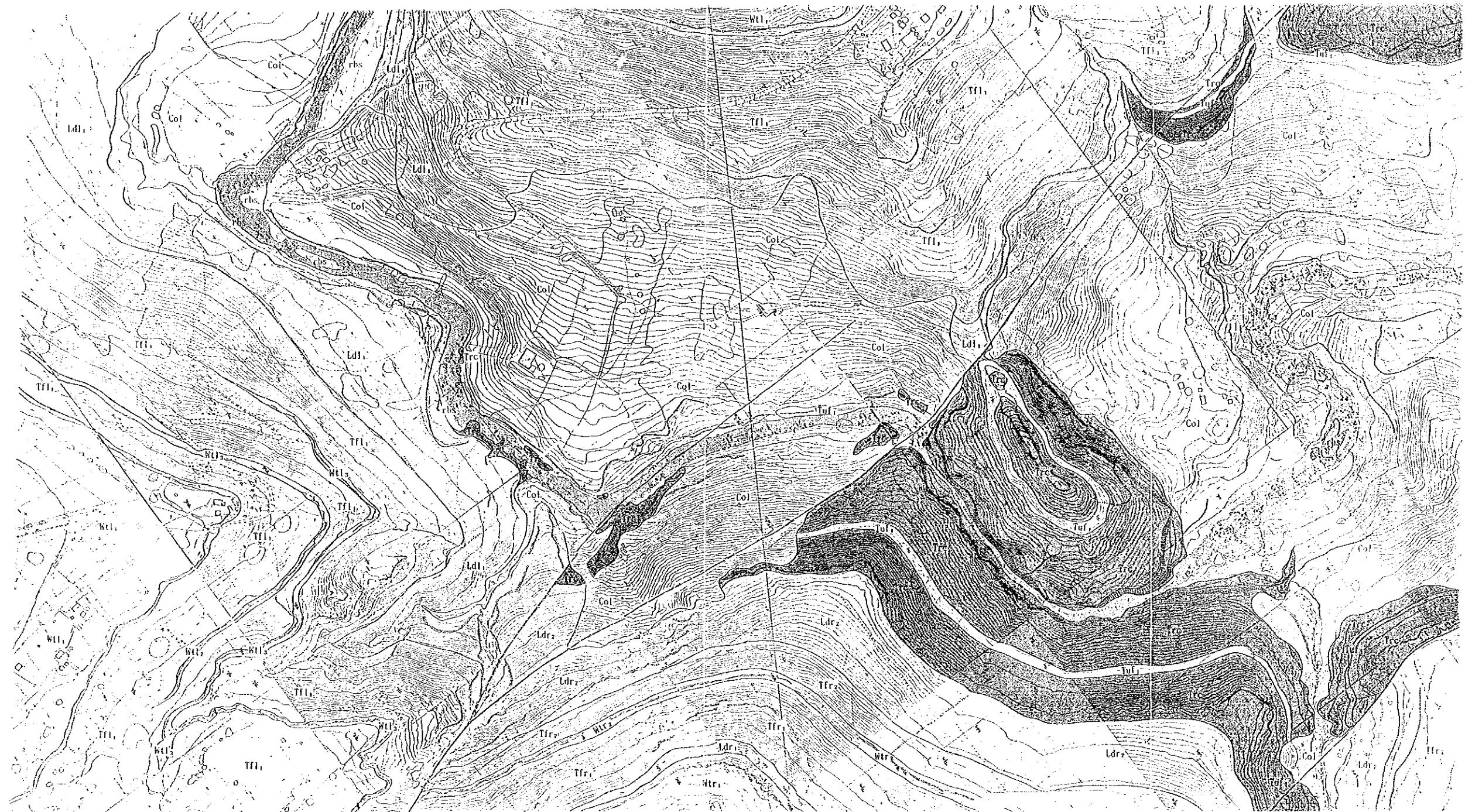
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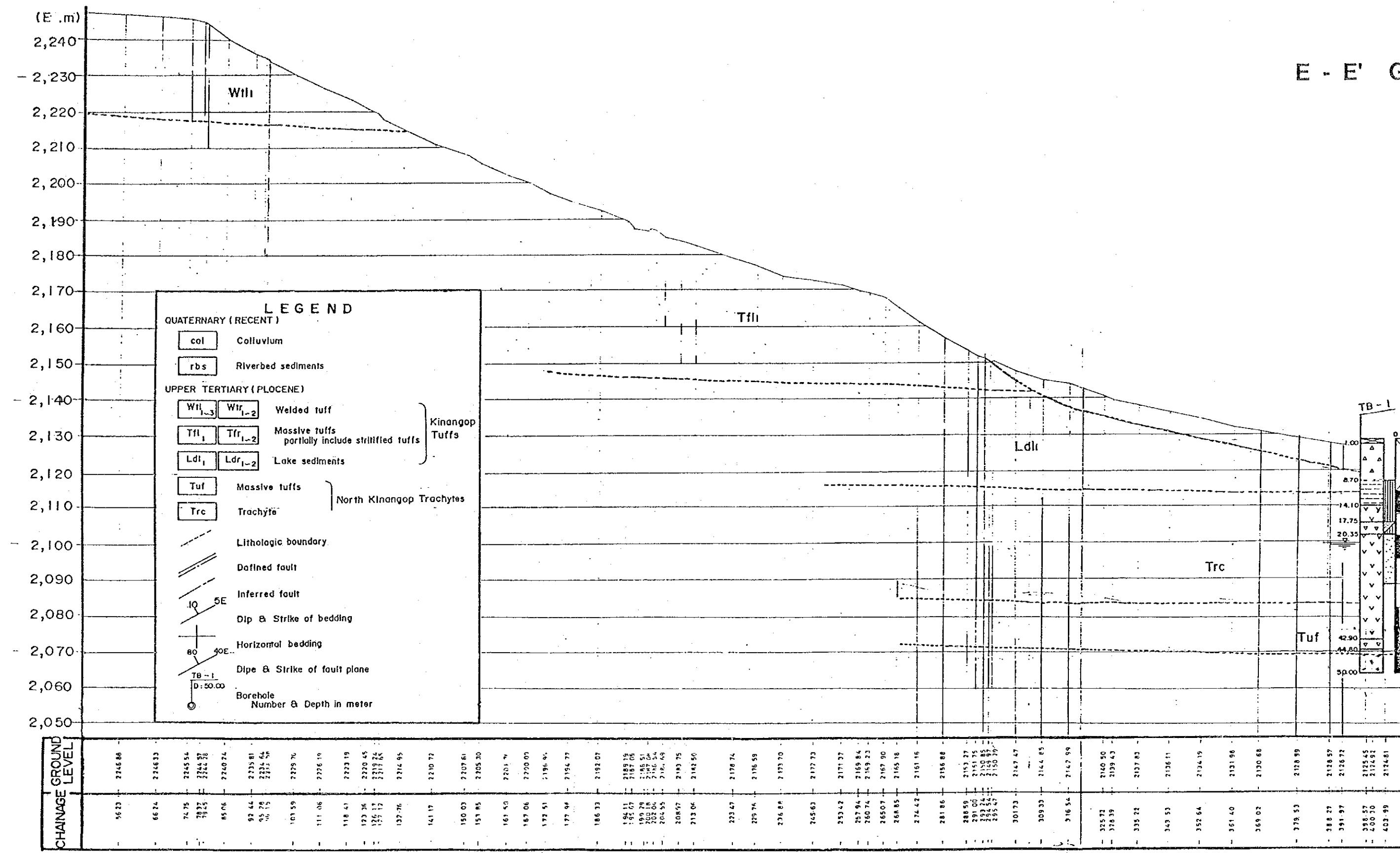
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TITLE
Geological Map over
Turasha Dam Site

Fig. B.3.10



E - E'



E - E' Geological Profile (Along Left Bank Ridge)

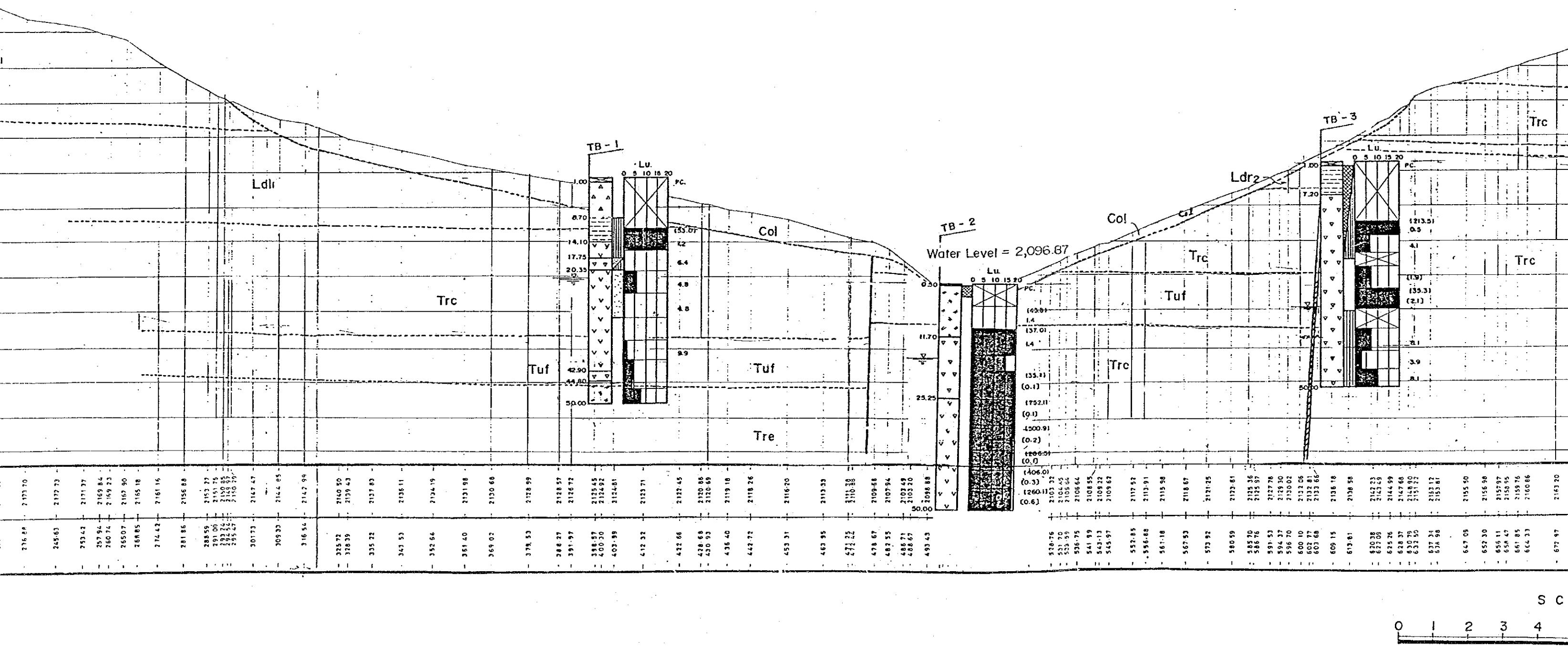


Fig. B.3.11

Left Bank Ridge)

