PROVINCIA DI OLBIA TEMPIO
COMUNE SAN TEODORO

ADEGUAMENTO DEL PIANO URBANISTICO COMUNALE
AL P.A.I.
PERIMETRAZIONE DELLE AREE A PERICOLOSITA'
IDRAULICA IN APPLICAZIONE DELL'ART.8 COMMA 2
DELLE NORME DI ATTUAZIONE DEL P.A.I.

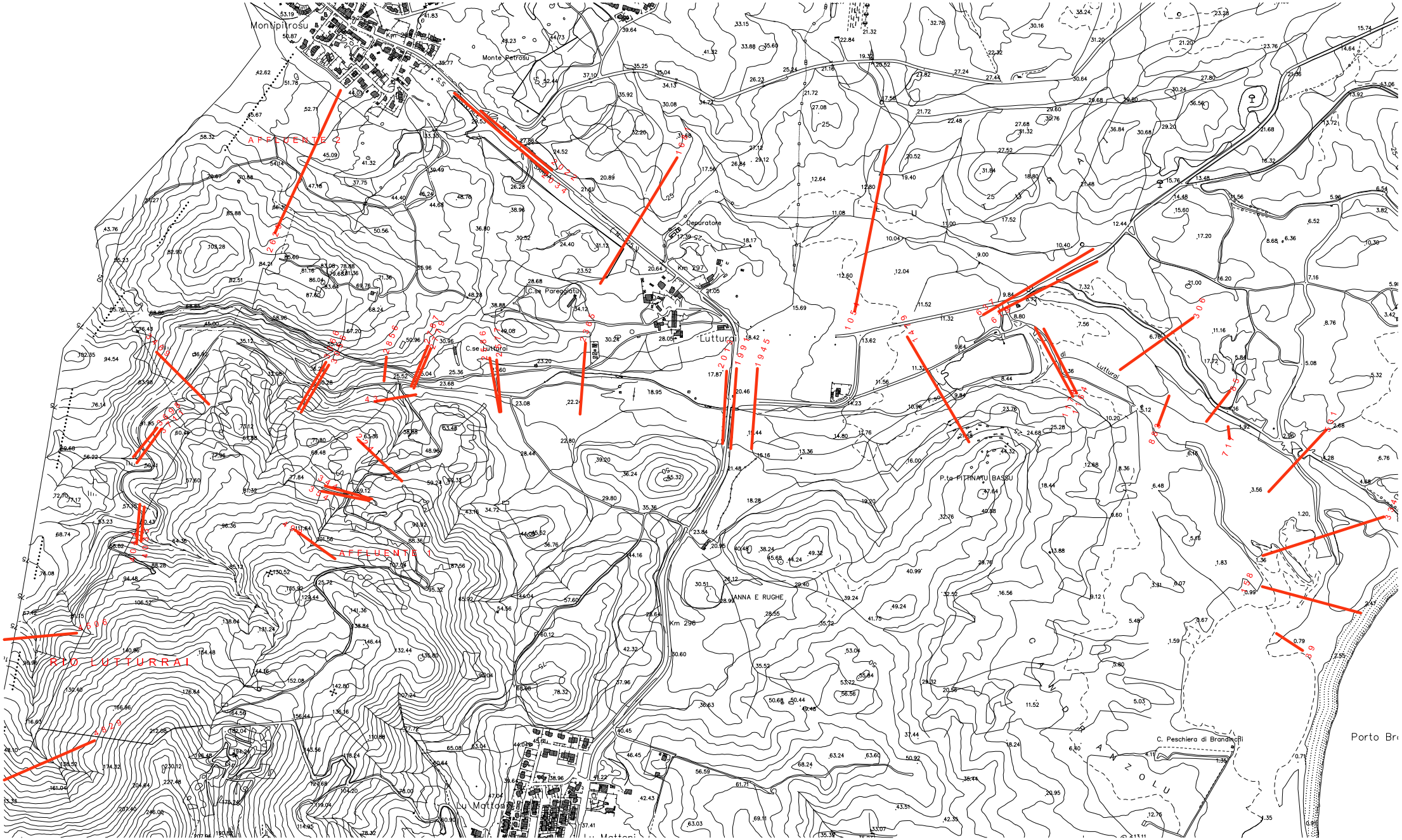
RIO LUTTURAI
VERIFICHE IDRAULICHE

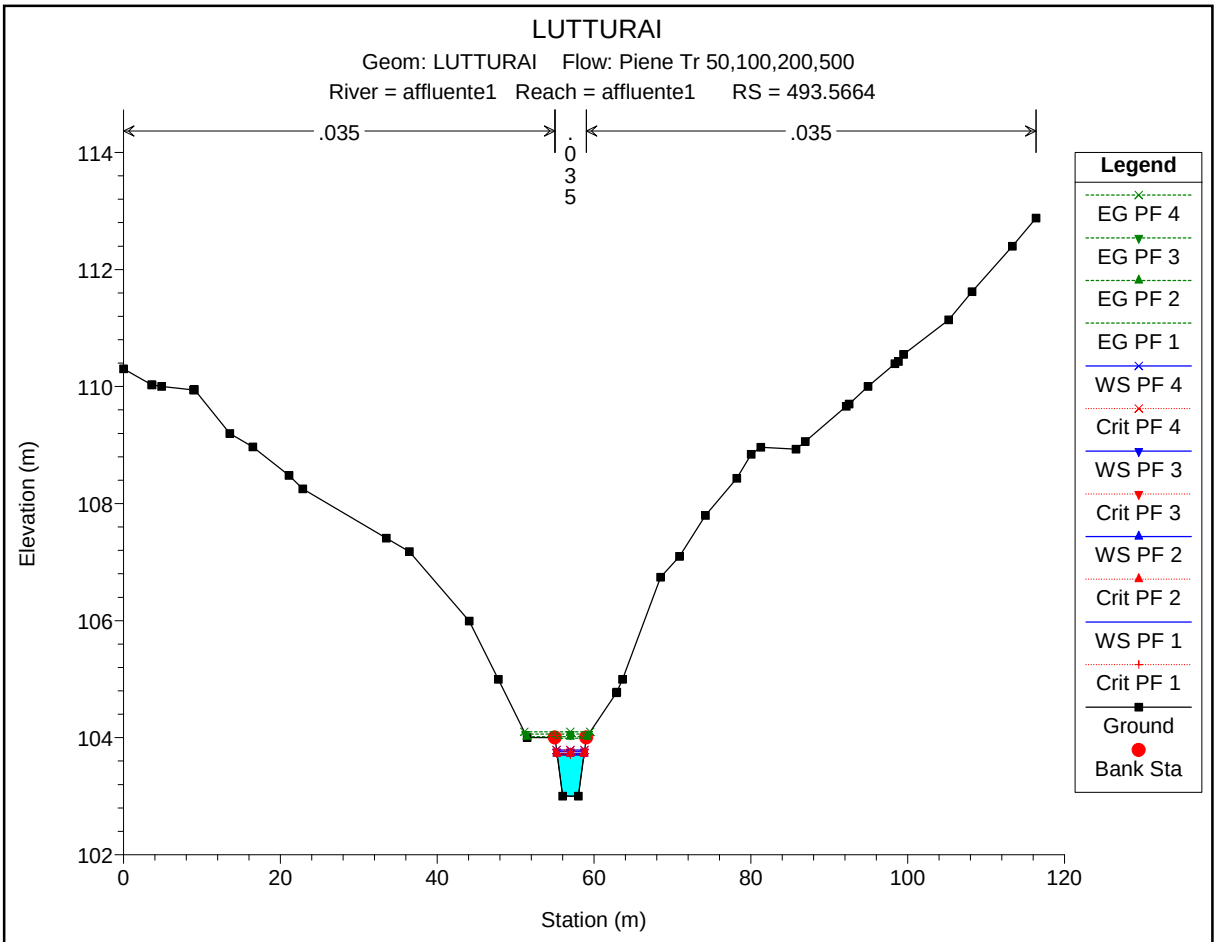
TAVOLA N°	SCALA	DATA
3.2		Ottobre 2012

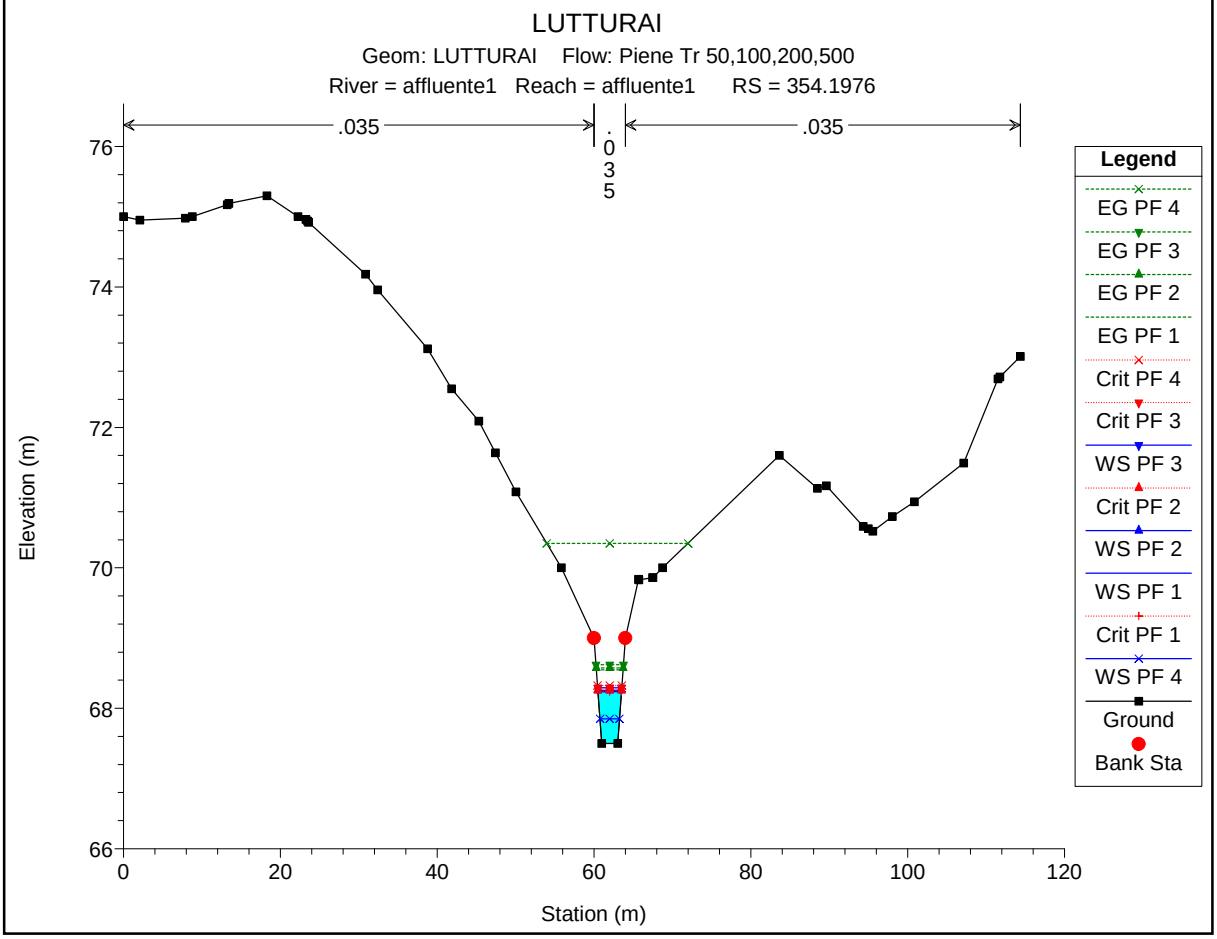
I TECNICI INCARICATI
Ing. Maddalena Idili
Geol. Andrea Selis

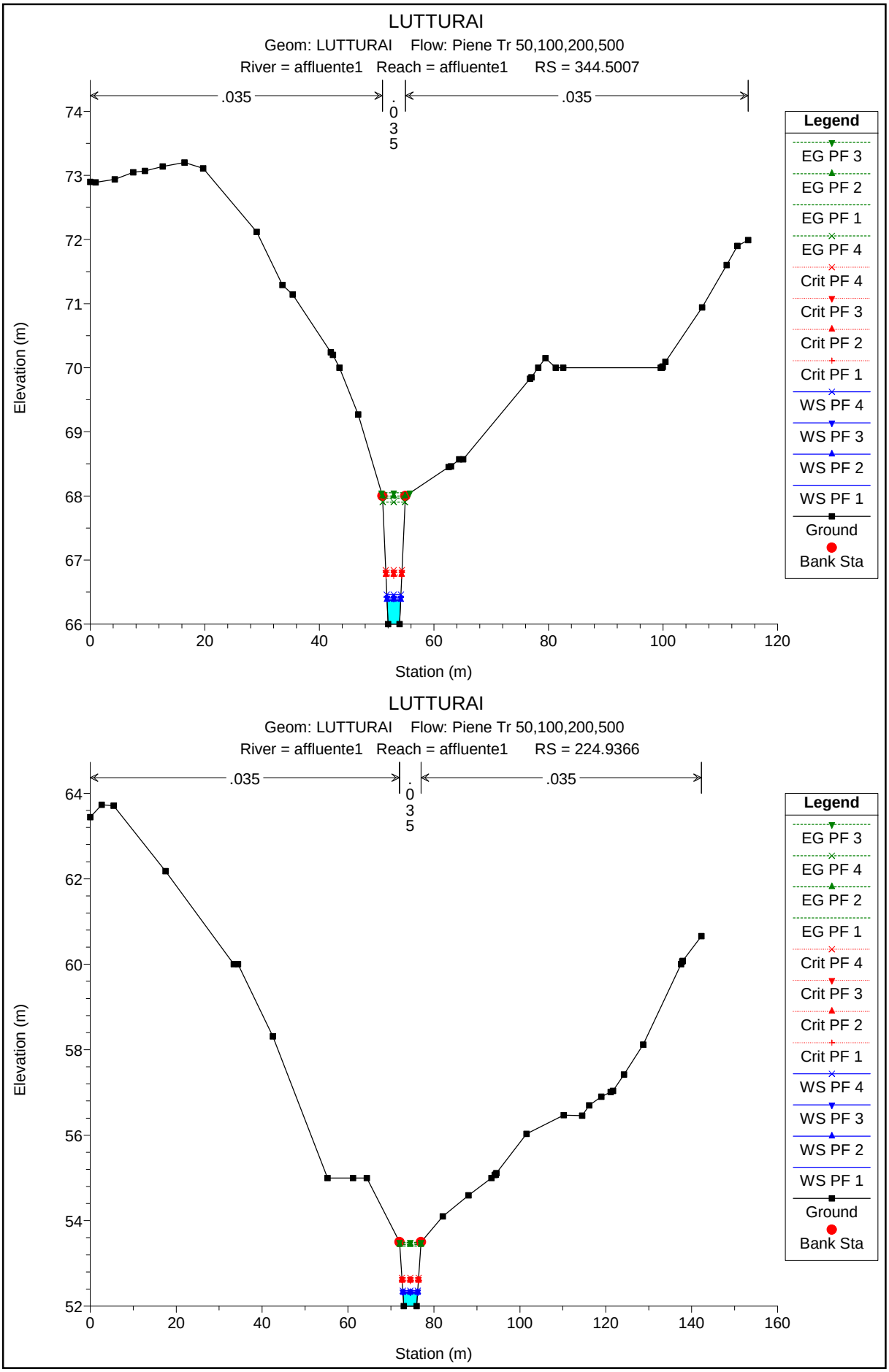
IL RESPONSABILE DEL PROCEDIMENTO
Geom. Riccardo Inzaina

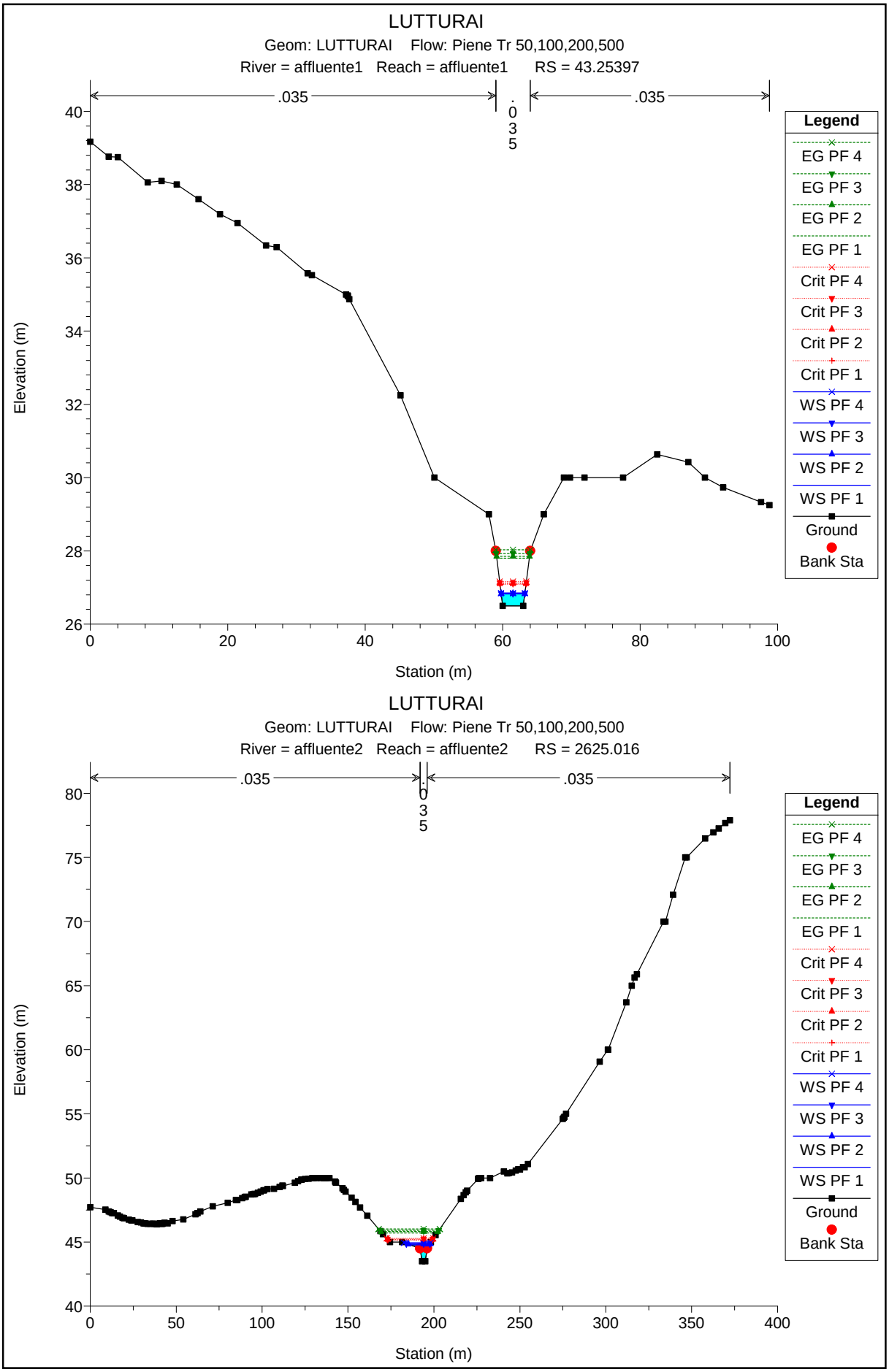
Ing. Maddalena Idili, via Stazione n. 28 - 08012 Bortigali, cell. 3285388170 - email idili.m@tiscali.it
Geol. Andrea Selis, via Toscana n.3 - 08100 Nuoro, cell. 3493193280 - email andreaselis@gmail.it

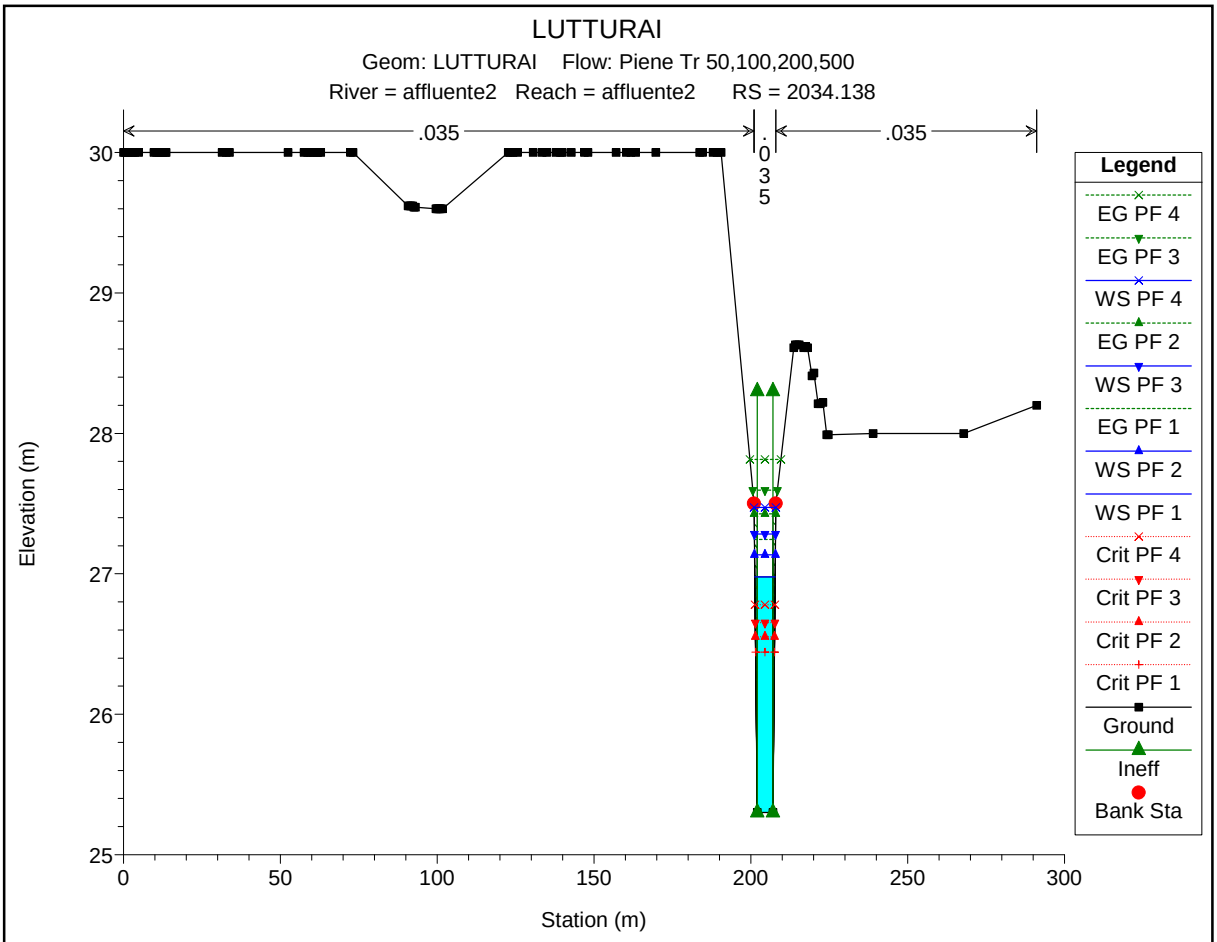

Montipitrosu
Monte Petrosu
AFFLUENTE 2
AFFLUENTE 1
RIO LUTTURRAI
Depuratore
C.se Paregoatu
C.se Lutturai
Lutturai
Km 297
Km 296
Km 295
P.ta PITINAIU BASSU
ANNA E RUGHE
C. Peschiera di Brandinchi
Porto Br

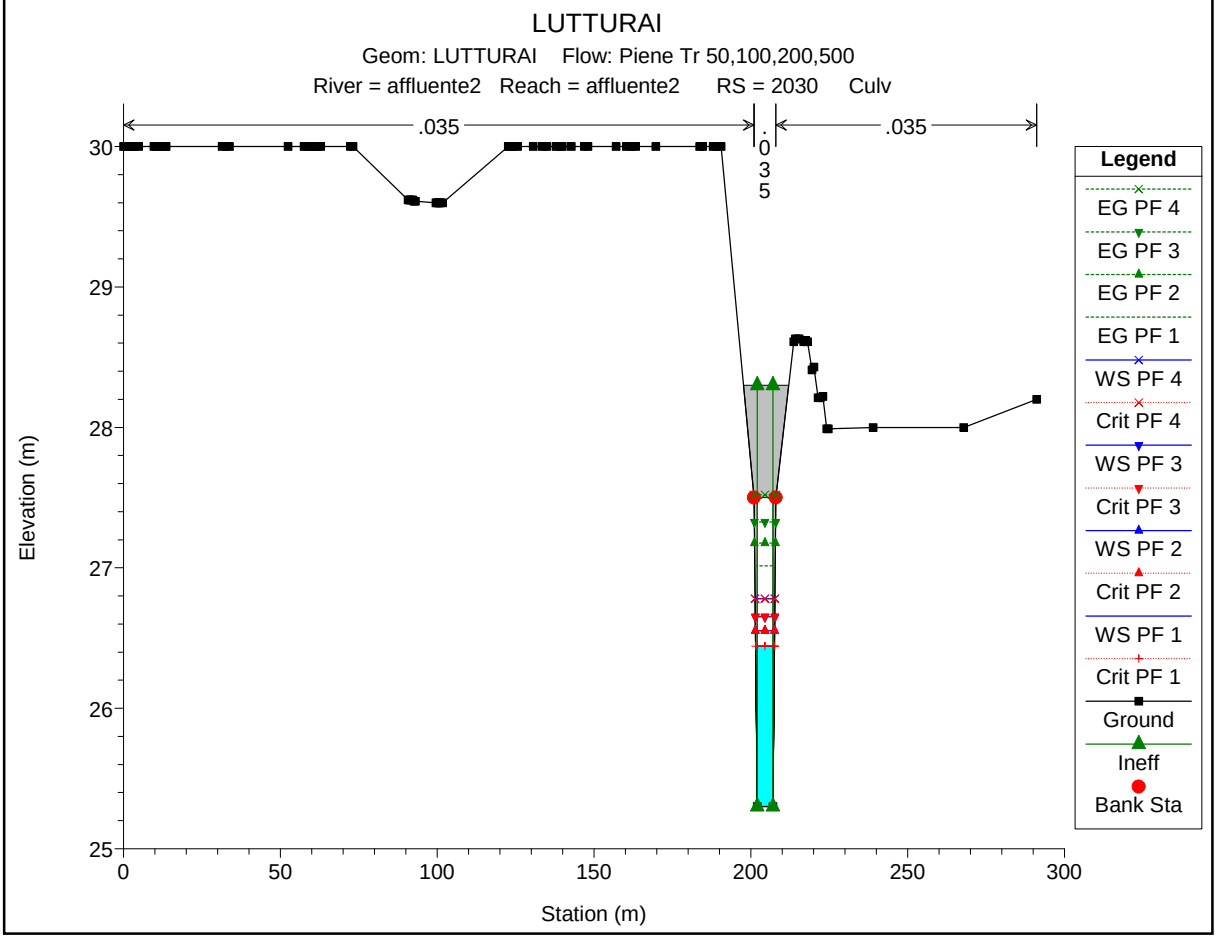

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente1 Reach = affluente1 RS = 493.5664
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
102
104
106
108
110
112
114
0
20
40
60
80
100
120

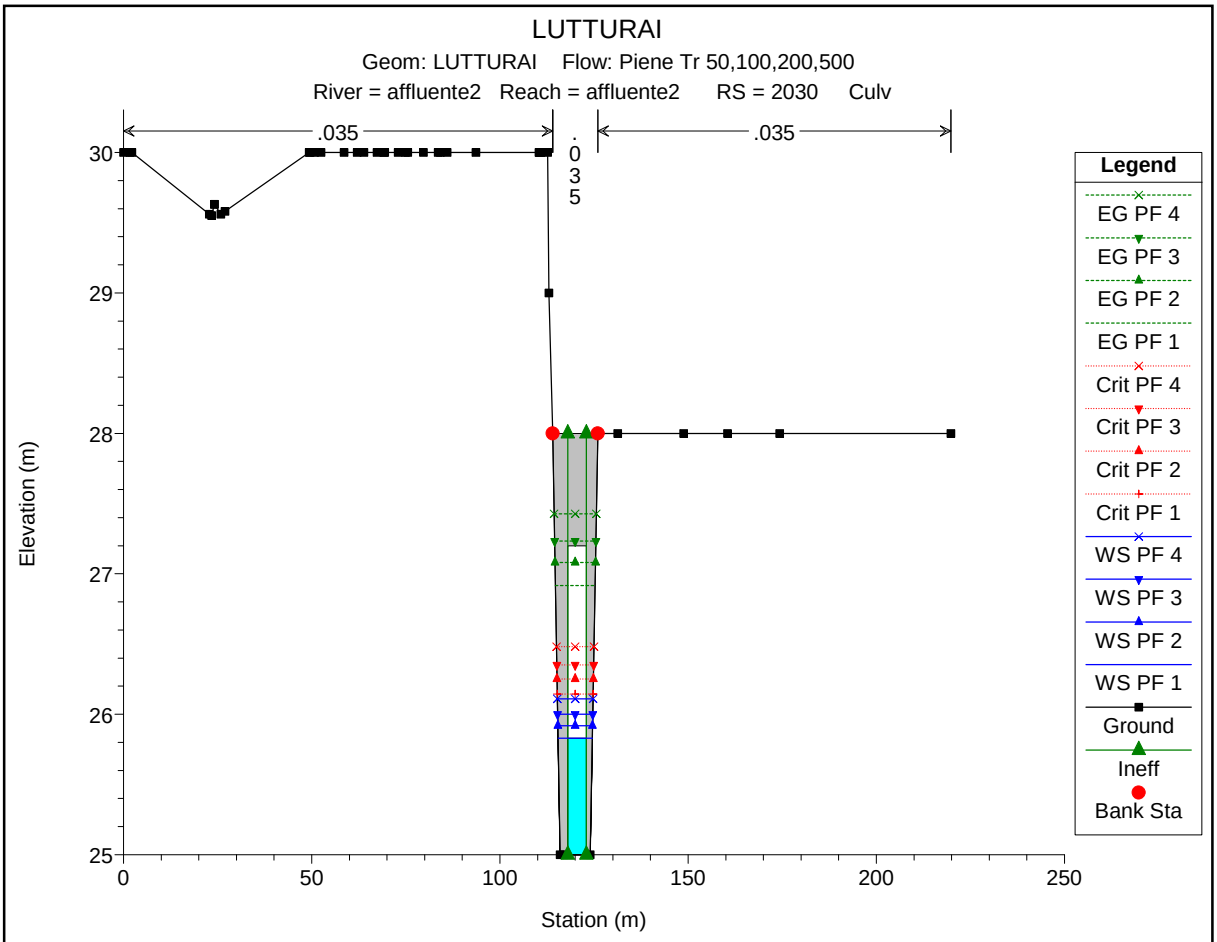

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente1 Reach = affluente1 RS = 354.1976
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
WS PF 3
Crit PF 2
WS PF 2
WS PF 1
Crit PF 1
WS PF 4
Ground
Bank Sta
Elevation (m)
Station (m)
66
68
70
72
74
76
0
20
40
60
80
100
120

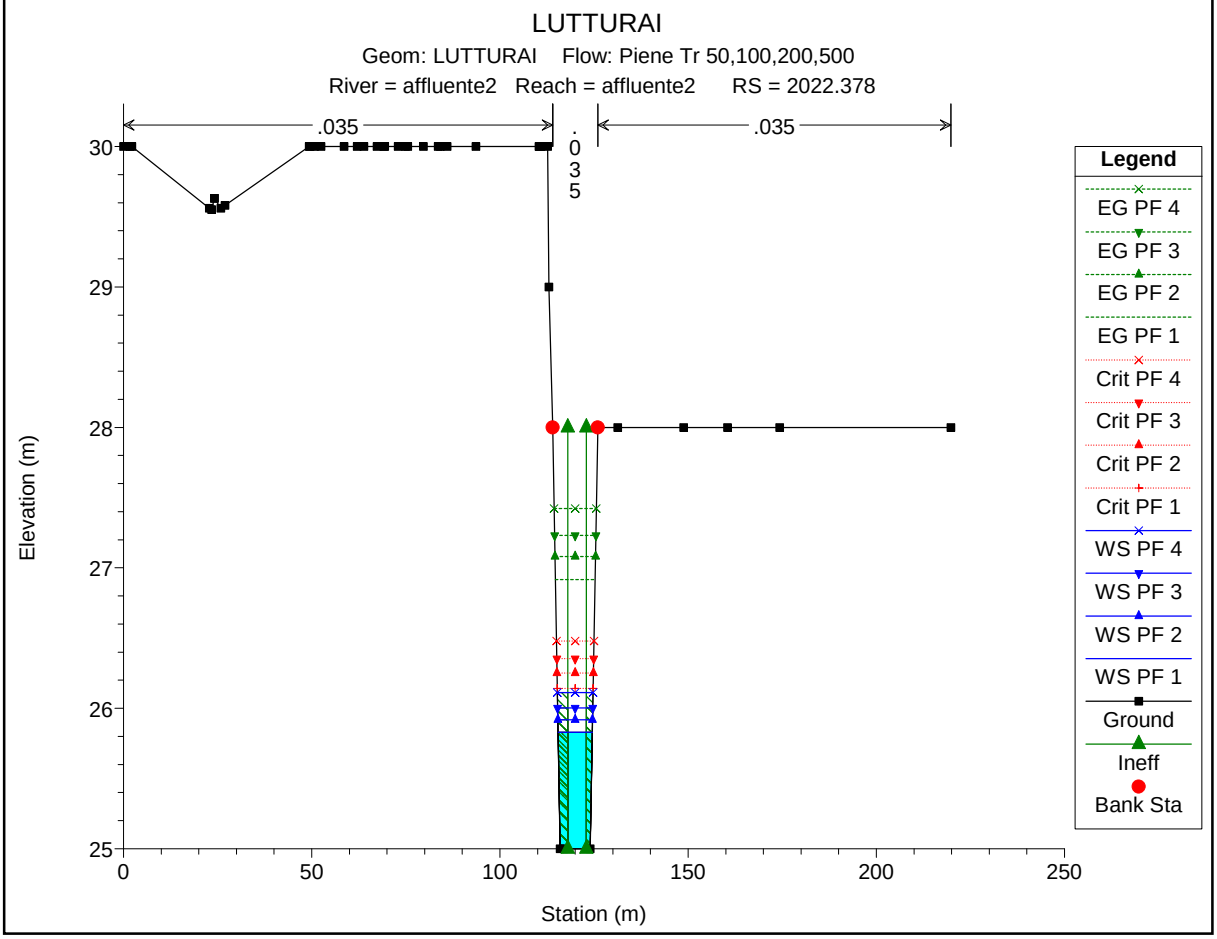

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente1 Reach = affluente1 RS = 344.5007
.035
.035
.035
Legend
EG PF 3
EG PF 2
EG PF 1
EG PF 4
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente1 Reach = affluente1 RS = 224.9366
.035
.035
.035
Legend
EG PF 3
EG PF 4
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)

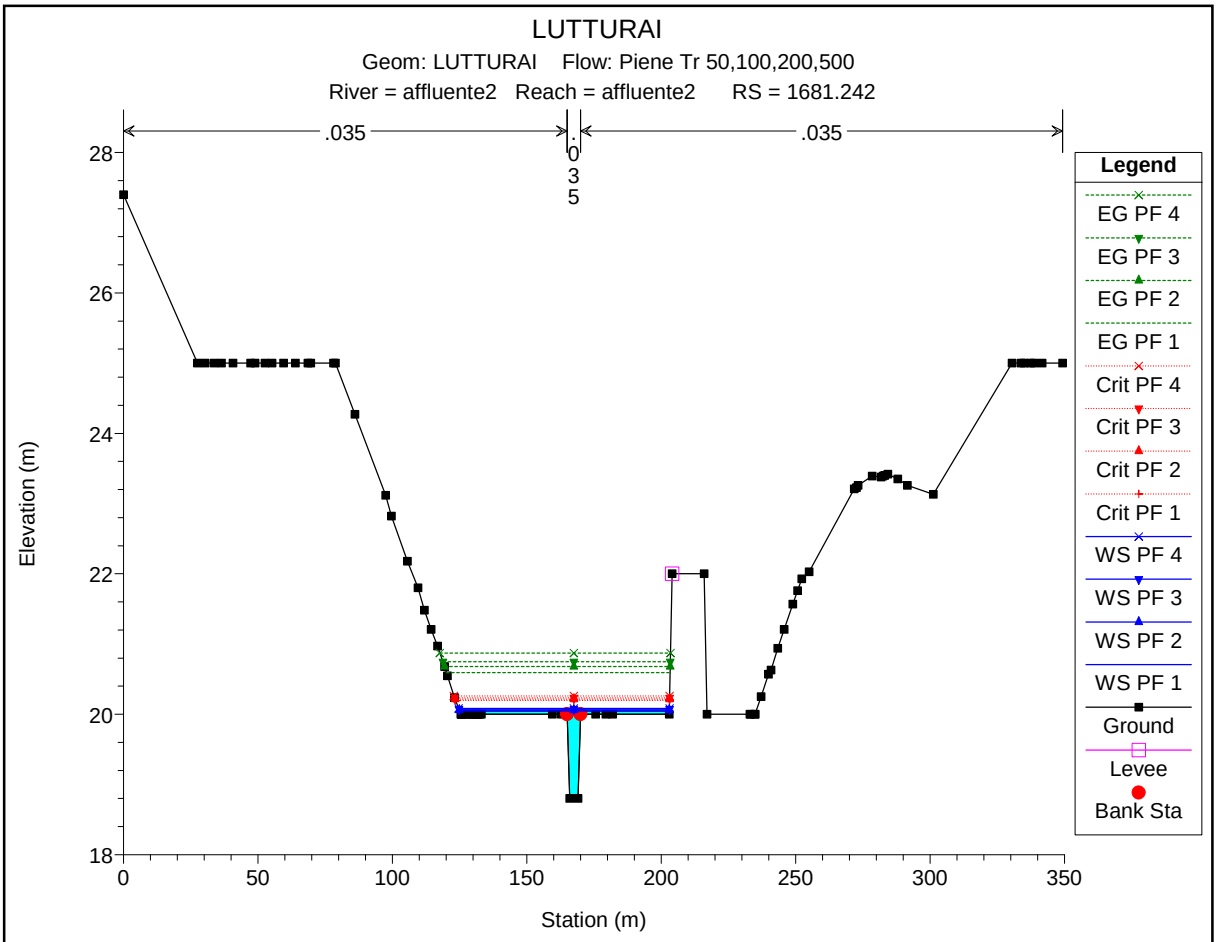

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente1 Reach = affluente1 RS = 43.25397
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 2625.016
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)

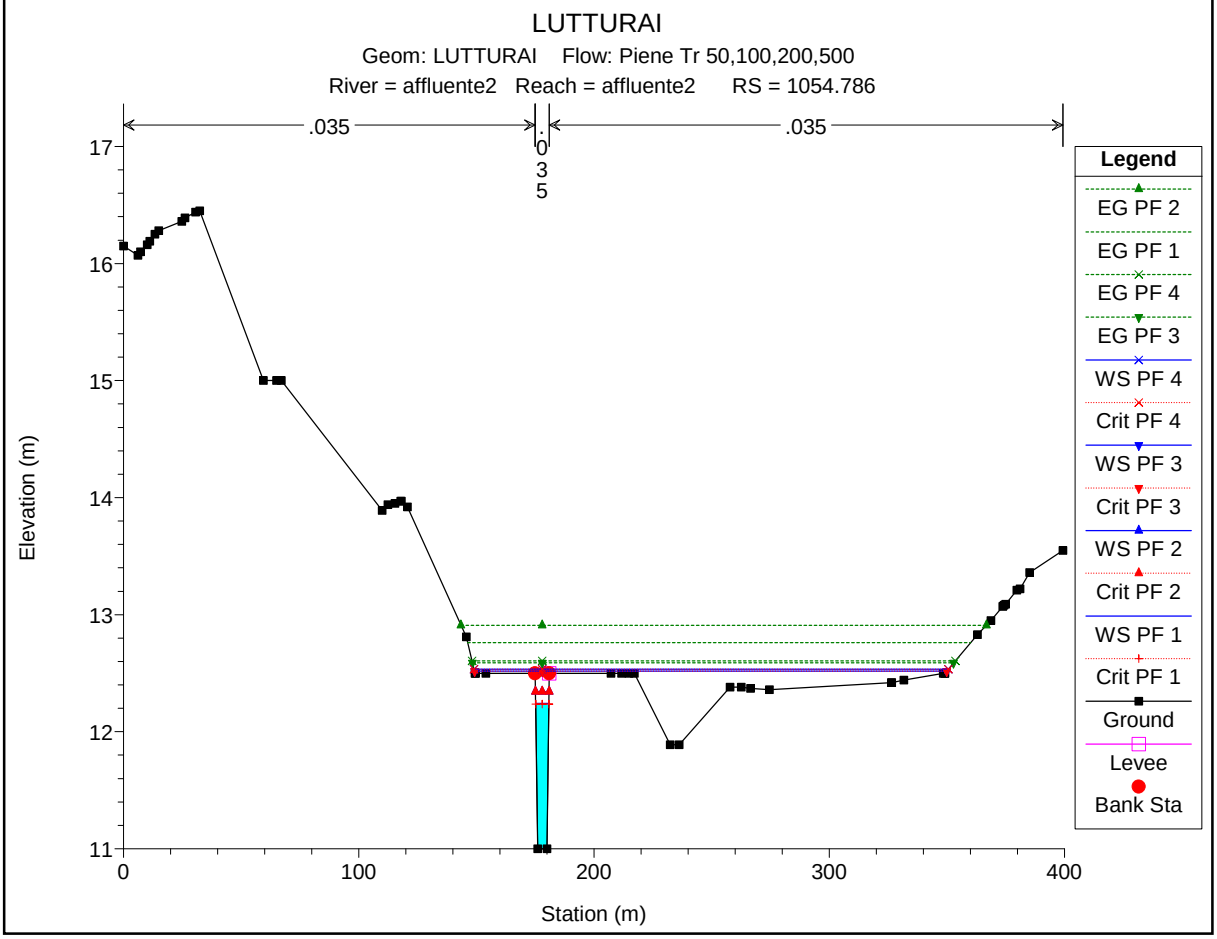

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 2034.138
.035
.035
.035
Legend
EG PF 4
EG PF 3
WS PF 4
EG PF 2
WS PF 3
EG PF 1
WS PF 2
WS PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
30
29
28
27
26
25
0
50
100
150
200
250
300

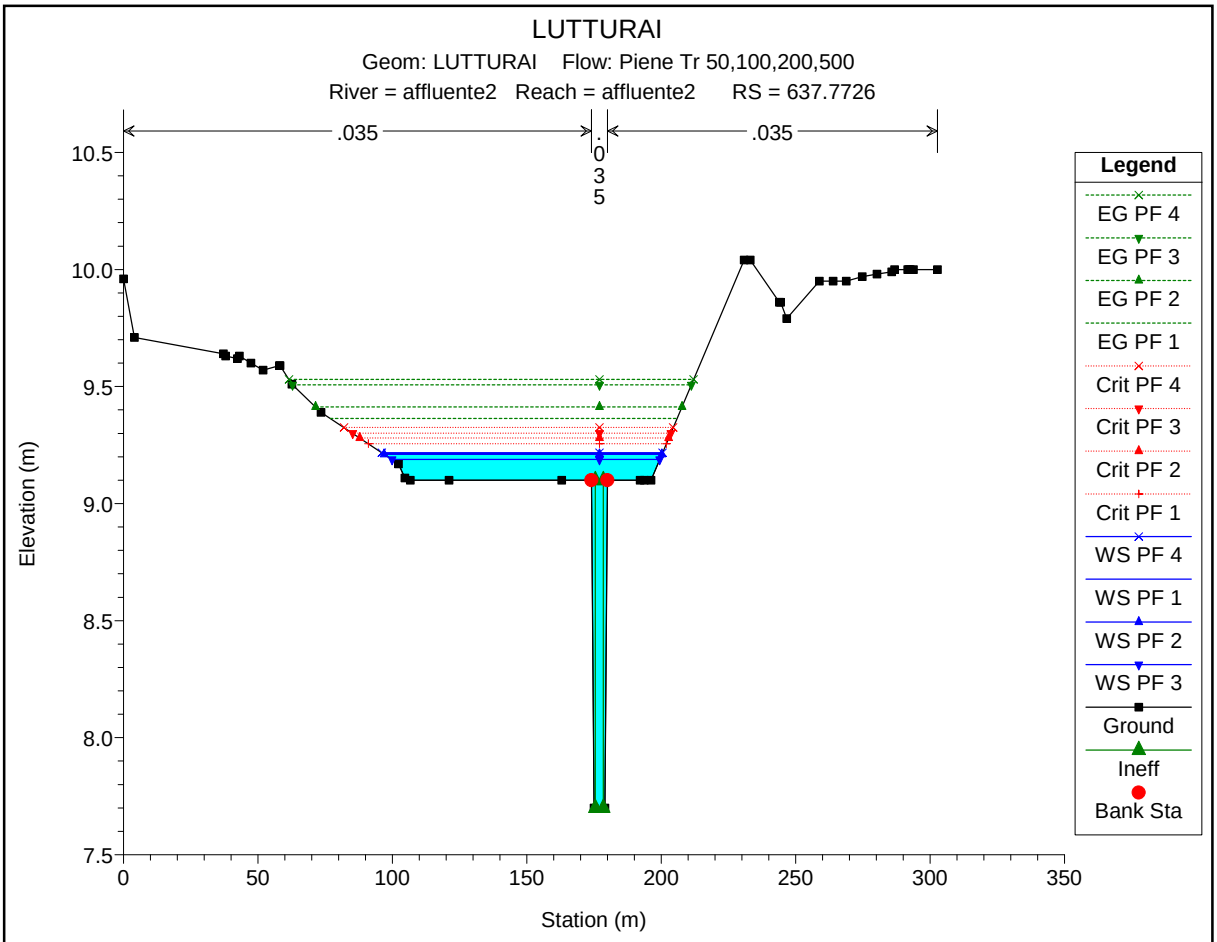

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 2030 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
30
29
28
27
26
25
0
50
100
150
200
250
300

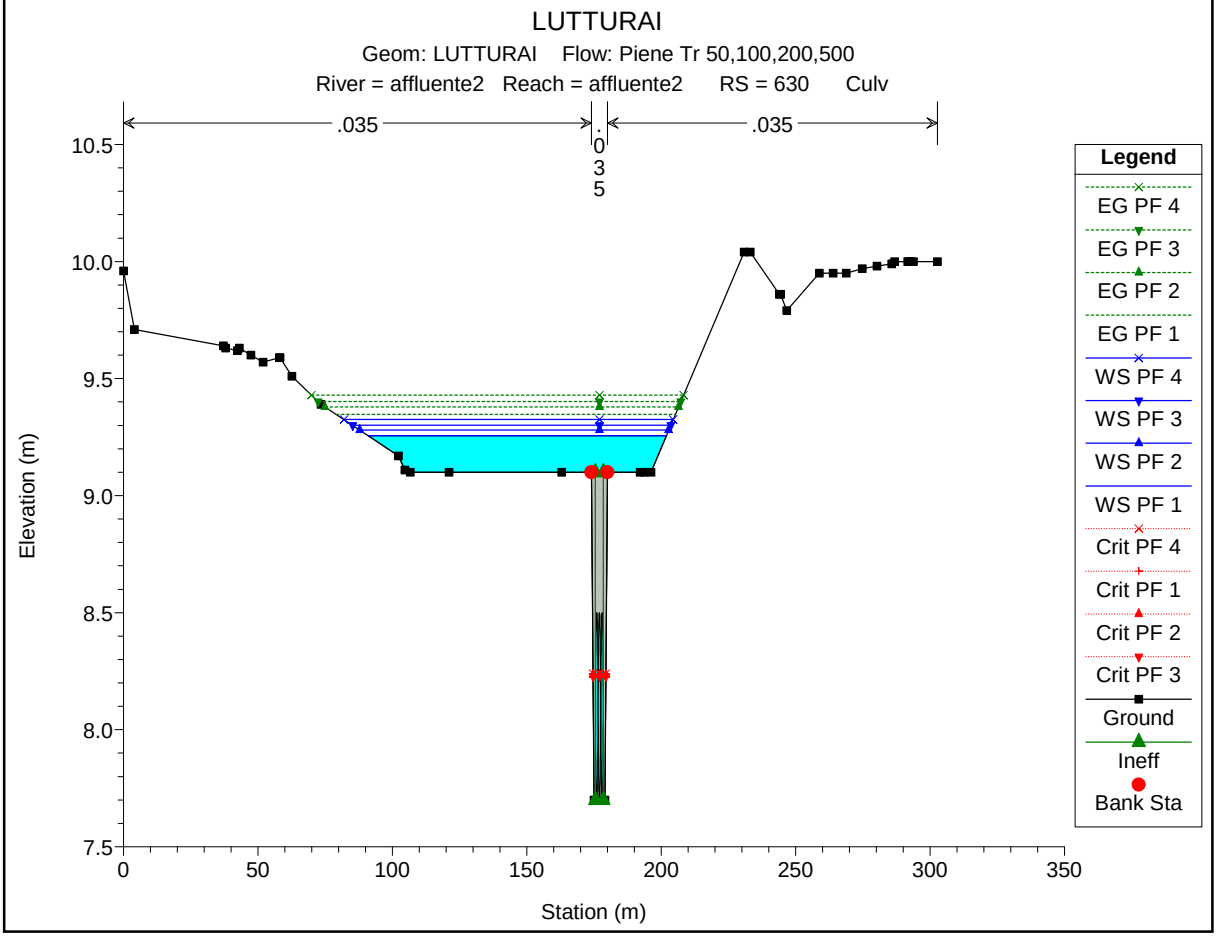

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 2030 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
30
29
28
27
26
25
0
50
100
150
200
250

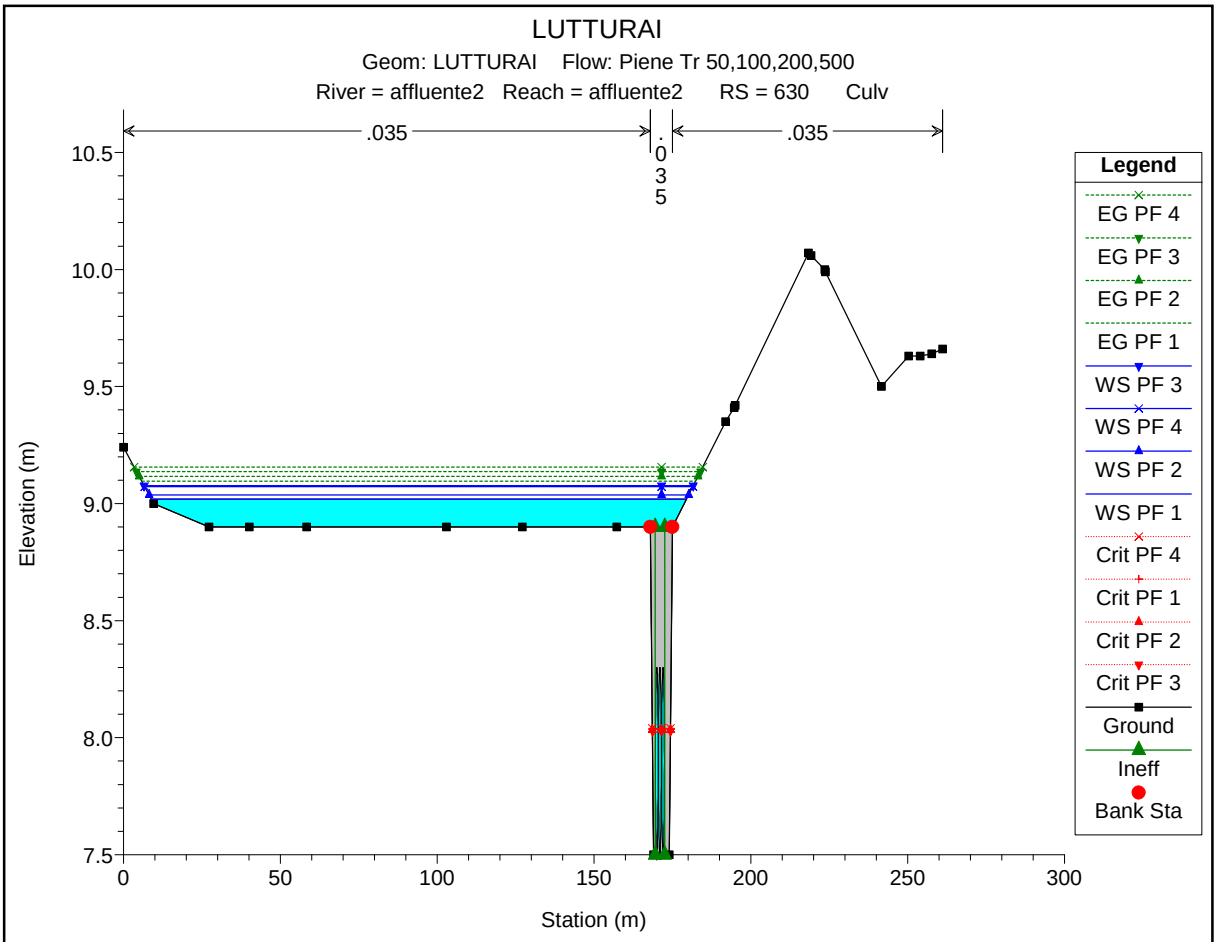

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 2022.378
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
30
29
28
27
26
25
0
50
100
150
200
250

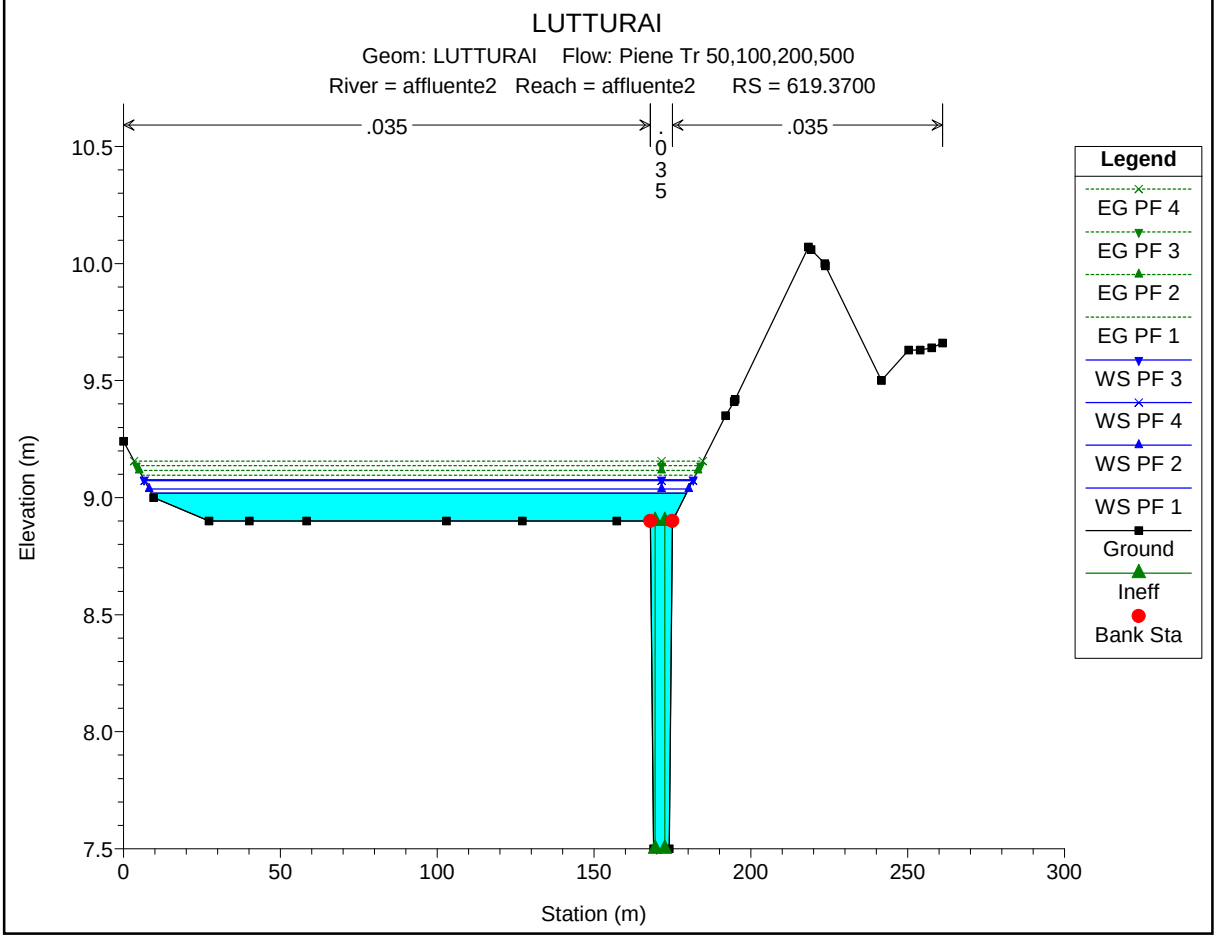

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 1681.242
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Levee
Bank Sta
Elevation (m)
Station (m)
28
26
24
22
20
18
0
50
100
150
200
250
300
350

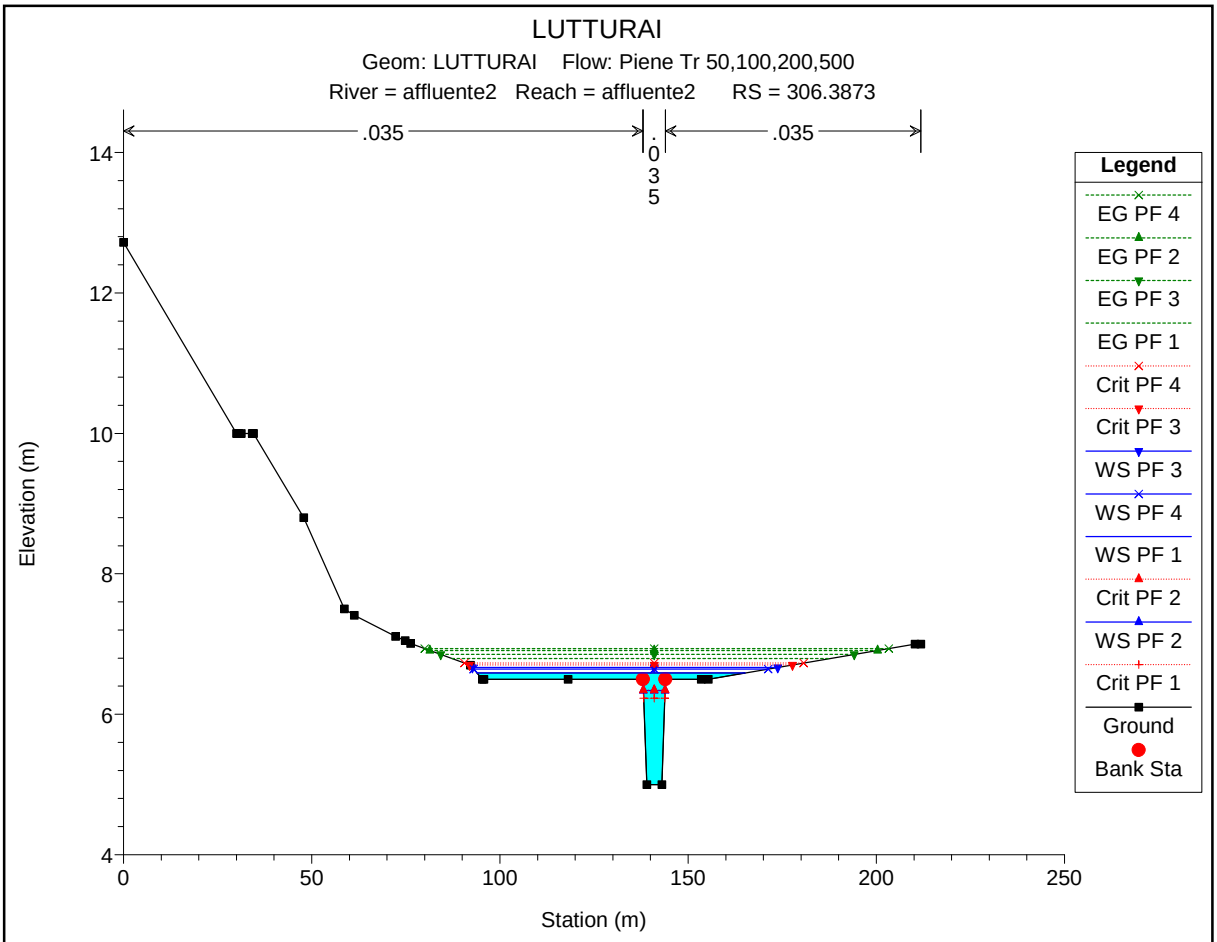

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 1054.786
.035
.035
.035
Legend
EG PF 2
EG PF 1
EG PF 4
EG PF 3
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground
Levee
Bank Sta
Elevation (m)
Station (m)
17
16
15
14
13
12
11
0
100
200
300
400

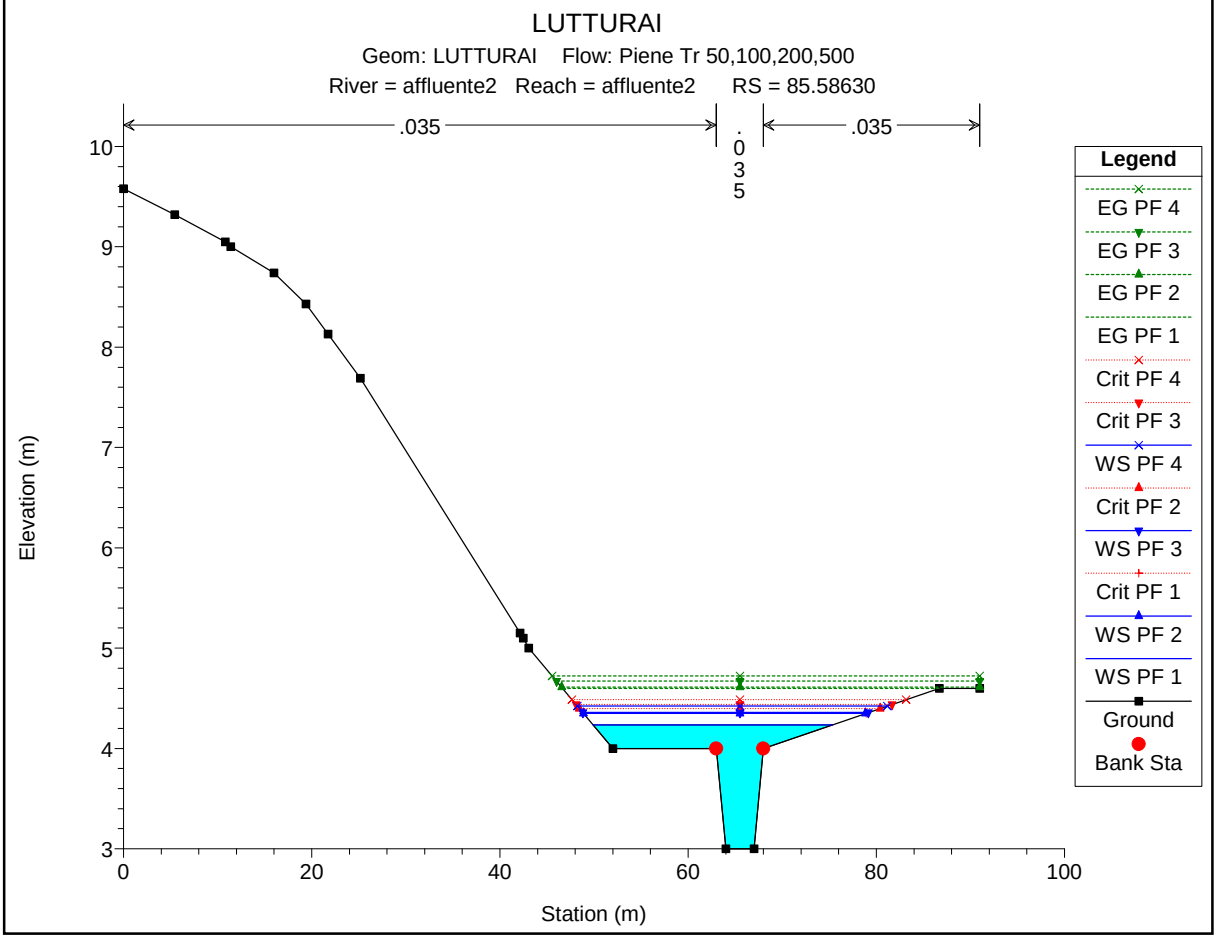

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 637.7726
.035
.035
0
3
5
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 1
WS PF 2
WS PF 3
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
10.5
10.0
9.5
9.0
8.5
8.0
7.5
0
50
100
150
200
250
300
350

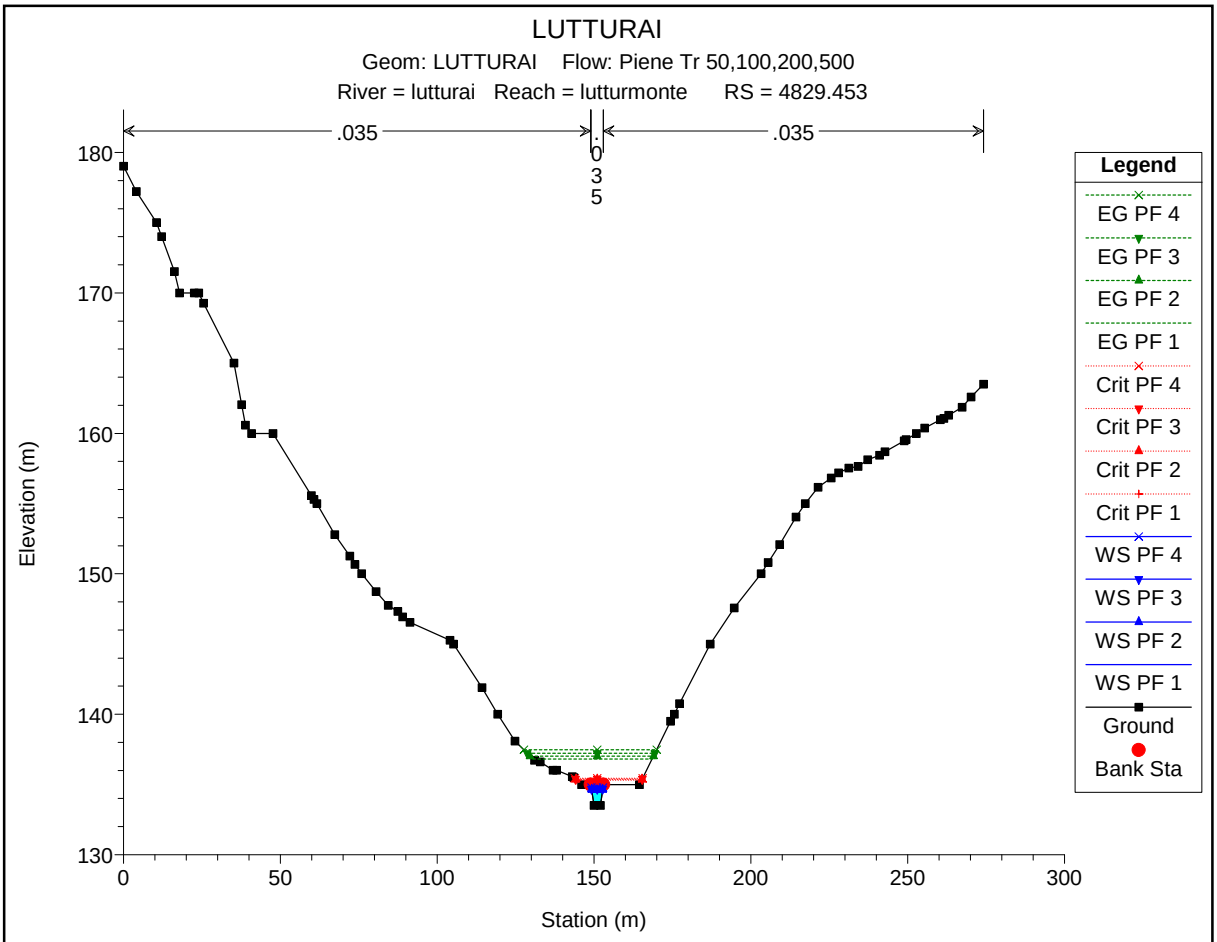

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 630 Culv
.035
.035
0
3
5
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Crit PF 4
Crit PF 1
Crit PF 2
Crit PF 3
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
10.5
10.0
9.5
9.0
8.5
8.0
7.5
0
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100
150
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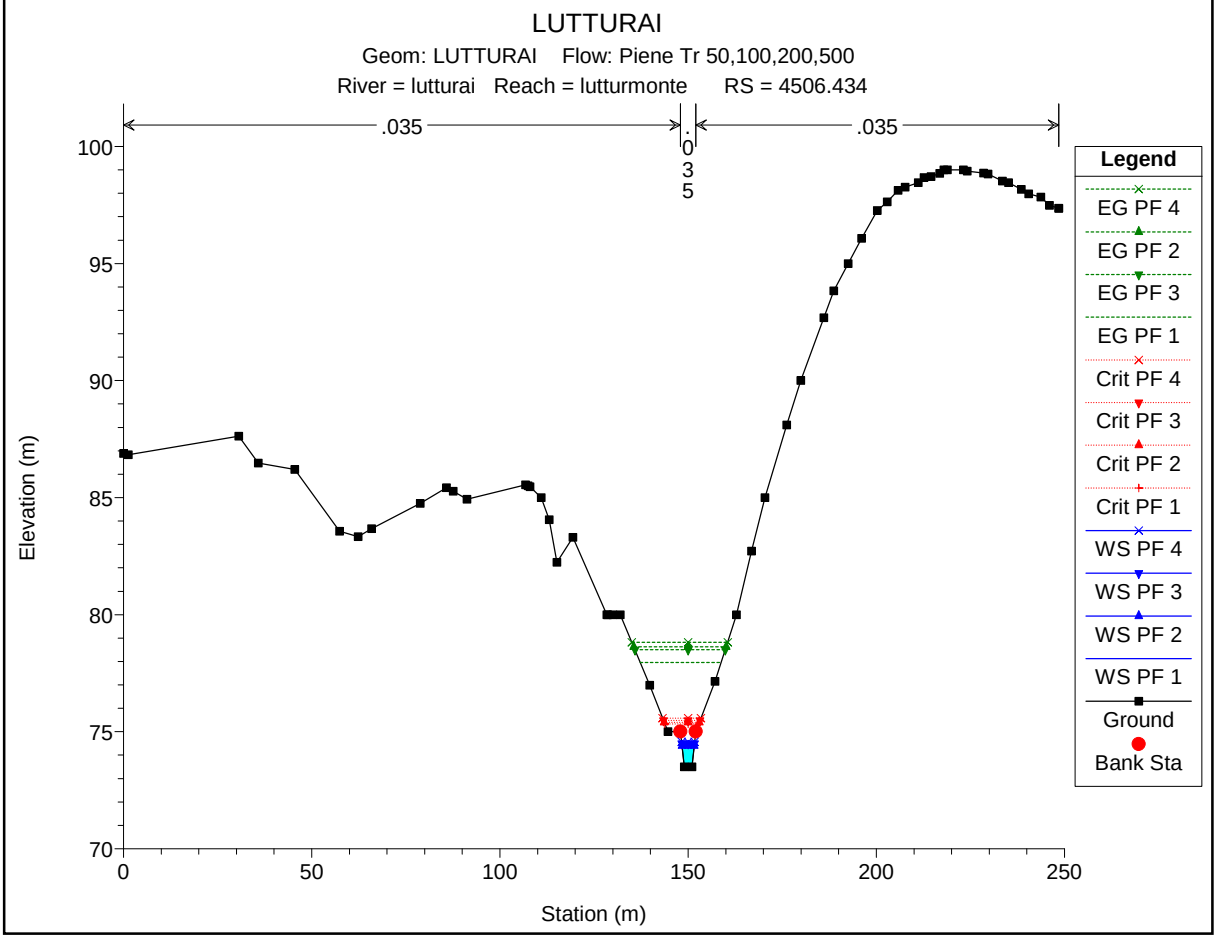

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 630 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 3
WS PF 4
WS PF 2
WS PF 1
Crit PF 4
Crit PF 1
Crit PF 2
Crit PF 3
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
10.5
10.0
9.5
9.0
8.5
8.0
7.5
0
50
100
150
200
250
300

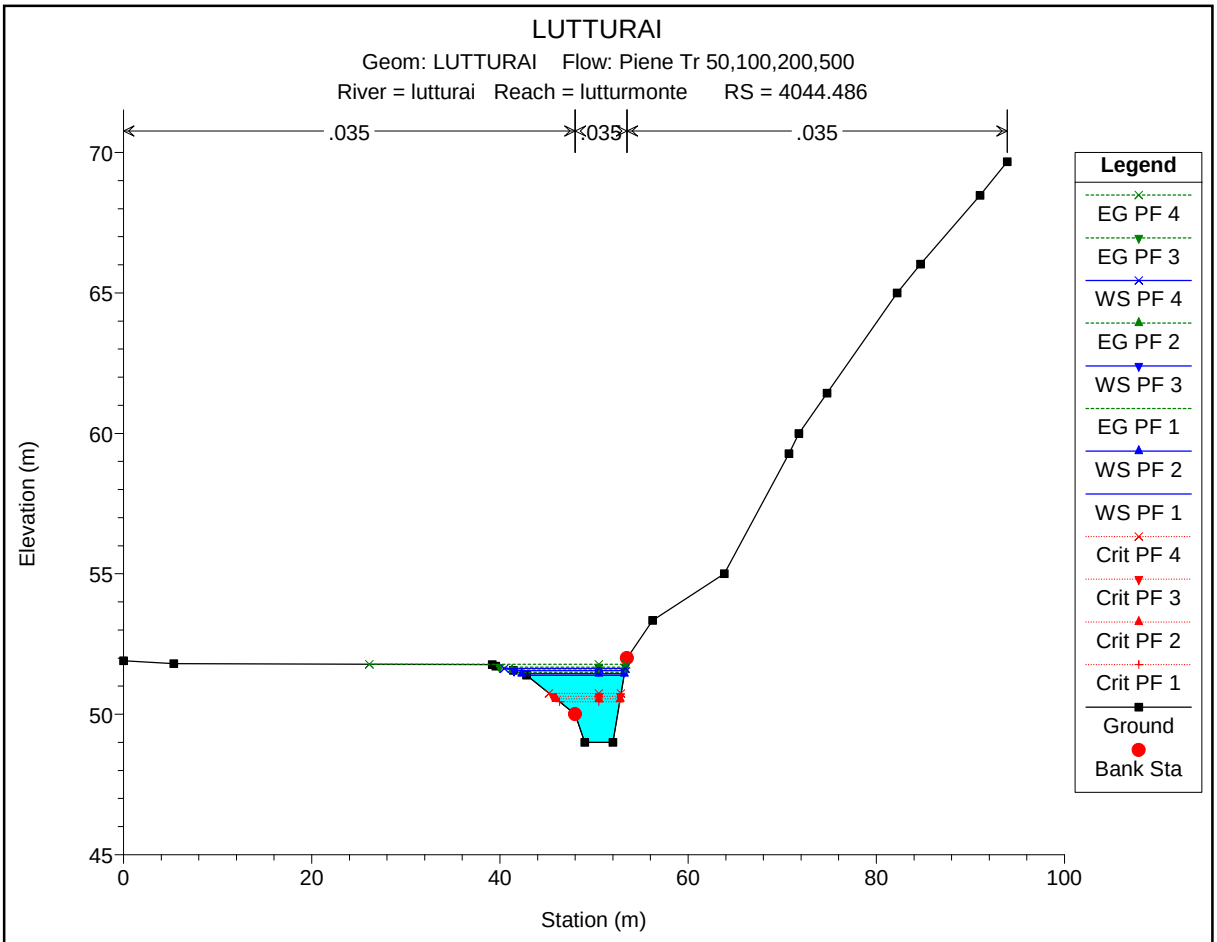

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 619.3700
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 3
WS PF 4
WS PF 2
WS PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
10.5
10.0
9.5
9.0
8.5
8.0
7.5
0
50
100
150
200
250
300

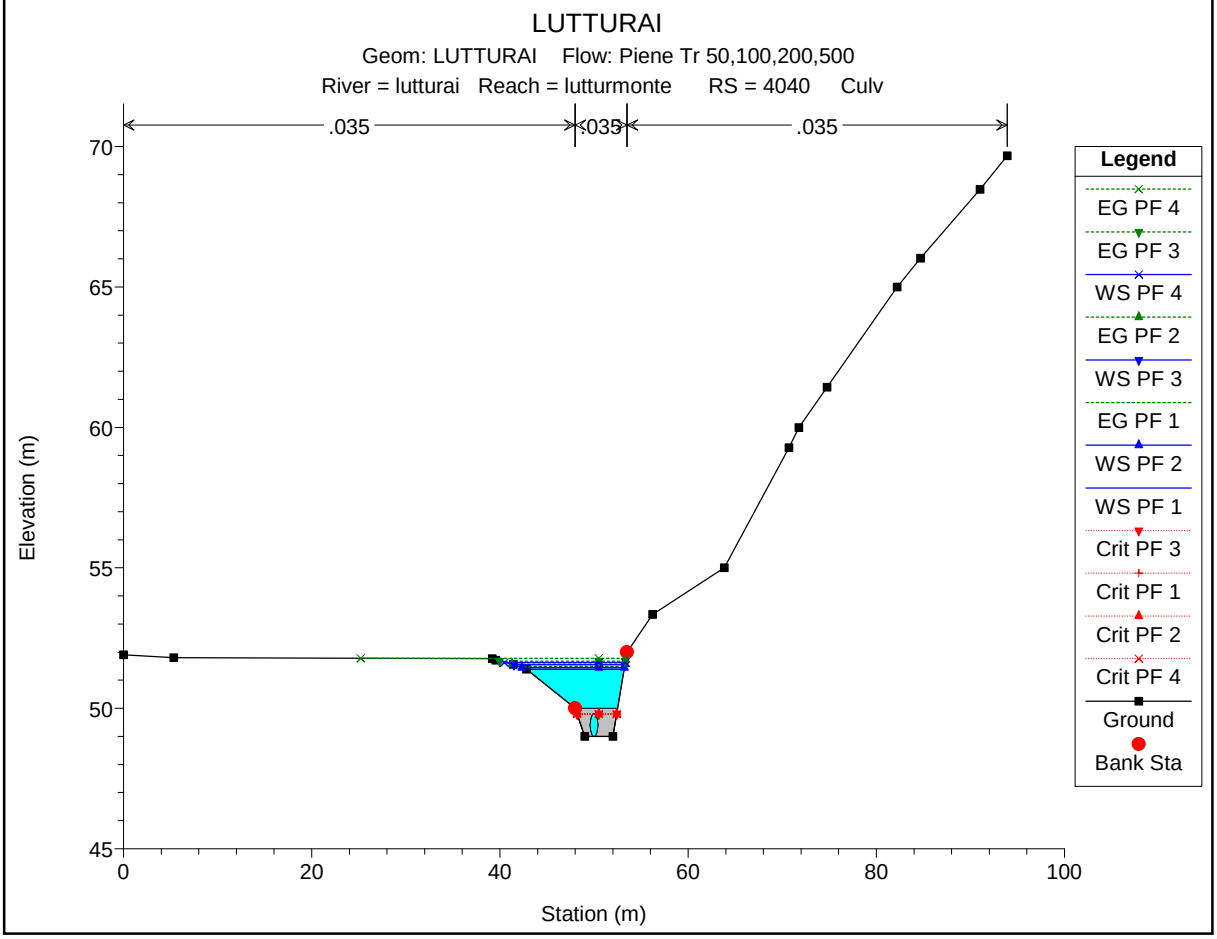

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 306.3873
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 2
EG PF 3
EG PF 1
Crit PF 4
Crit PF 3
WS PF 3
WS PF 4
WS PF 1
Crit PF 2
WS PF 2
Crit PF 1
Ground
Bank Sta

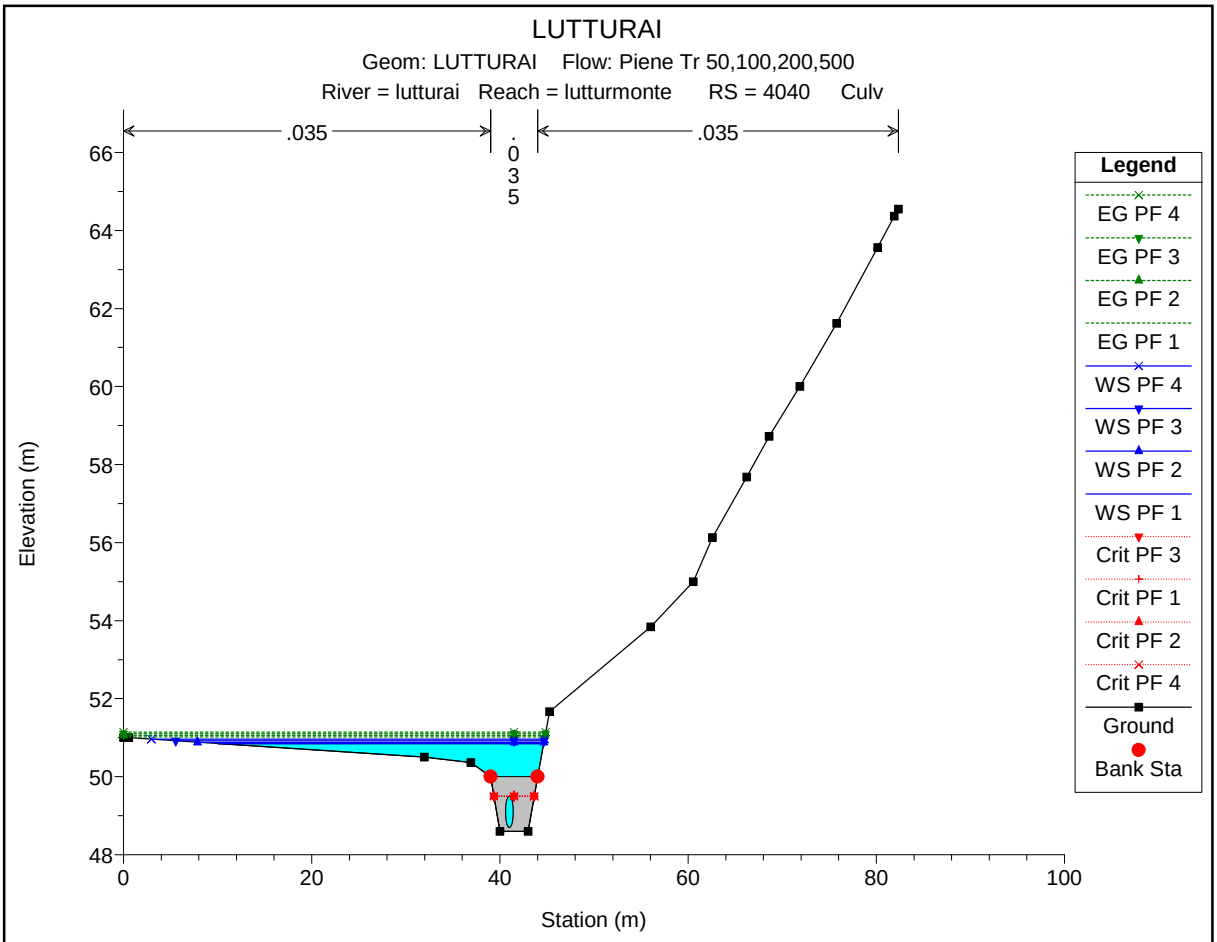

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = affluente2 Reach = affluente2 RS = 85.58630
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
WS PF 4
Crit PF 2
WS PF 3
Crit PF 1
WS PF 2
WS PF 1
Ground
Bank Sta

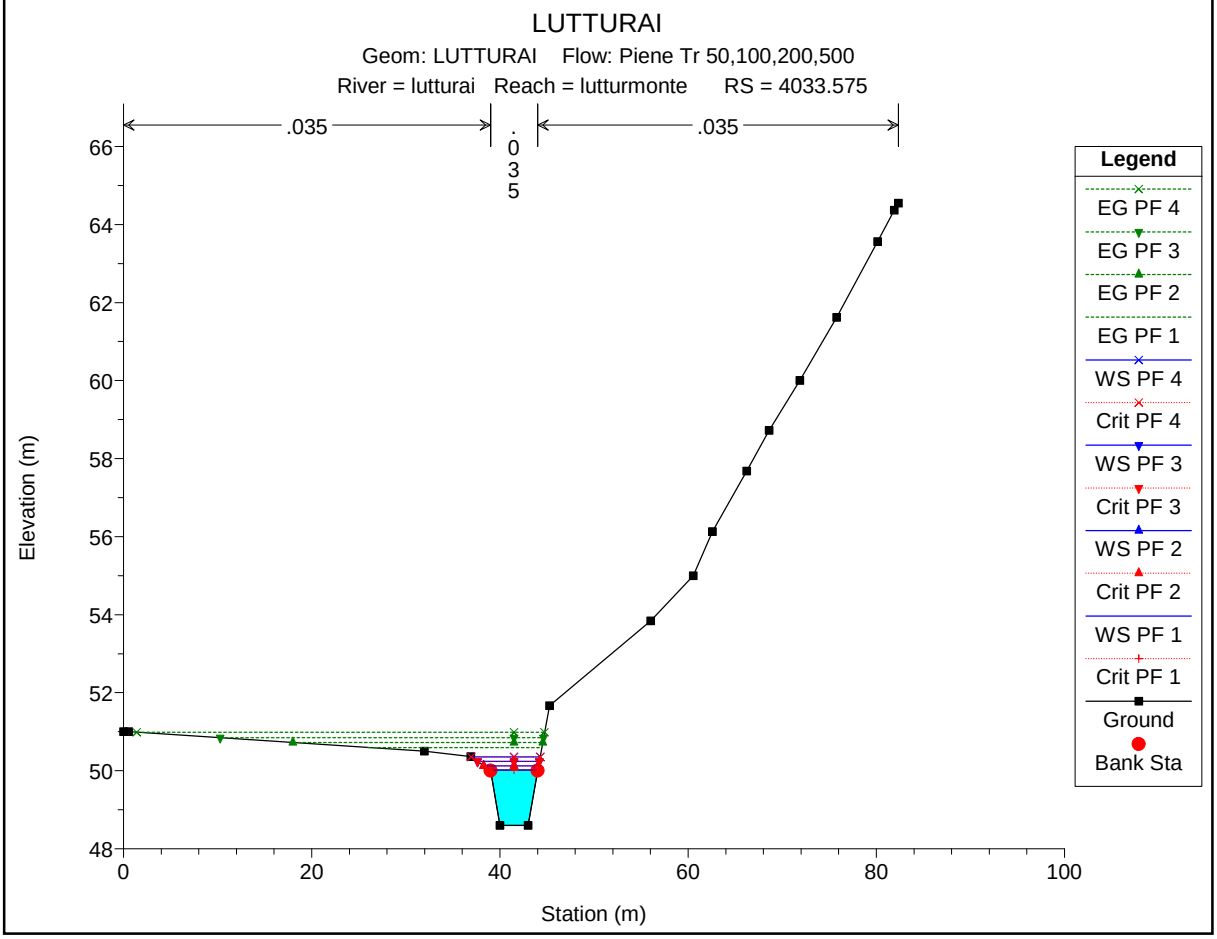

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 4829.453
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
180
170
160
150
140
130
0
50
100
150
200
250
300

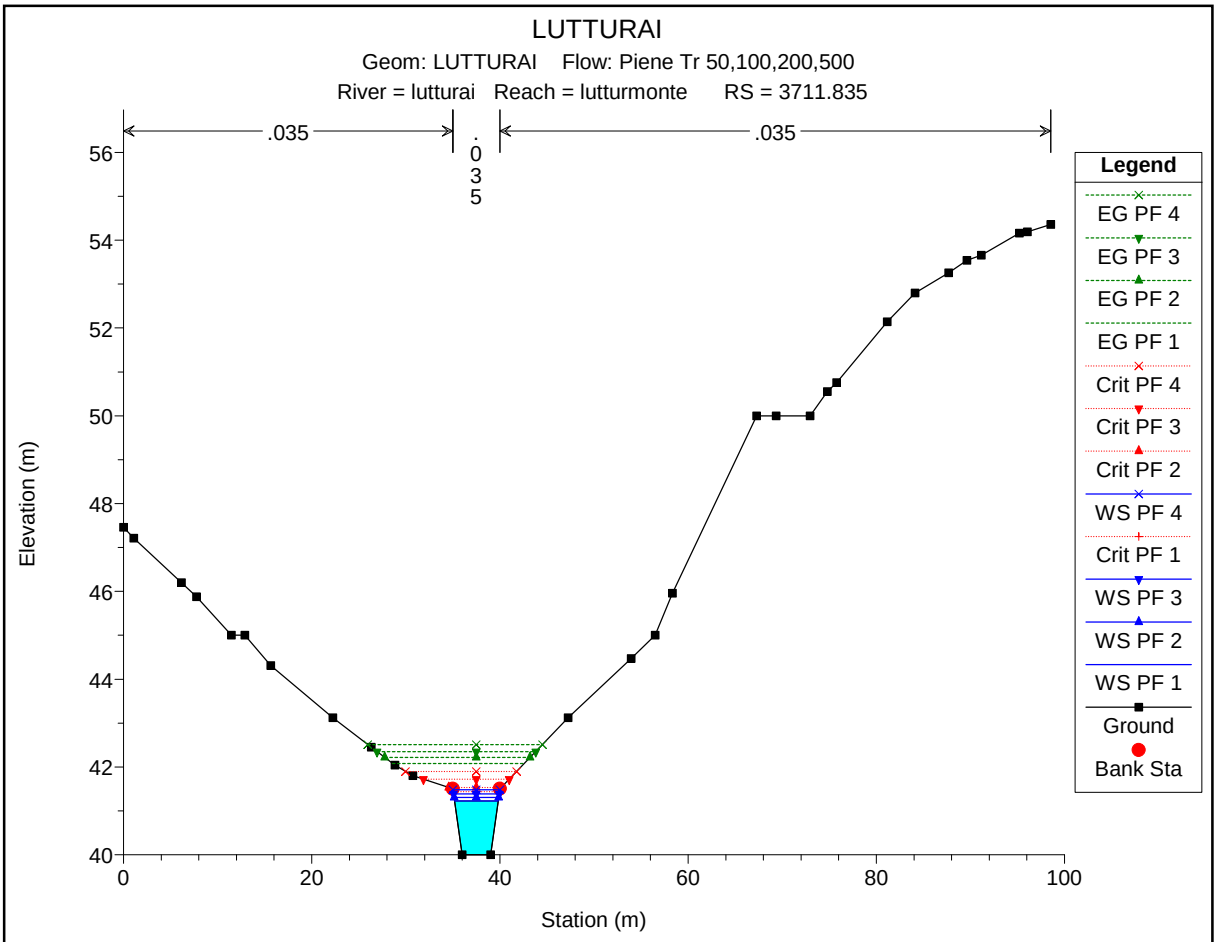

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 4506.434
.035
.035
.035
Legend
EG PF 4
EG PF 2
EG PF 3
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
100
95
90
85
80
75
70
0
50
100
150
200
250

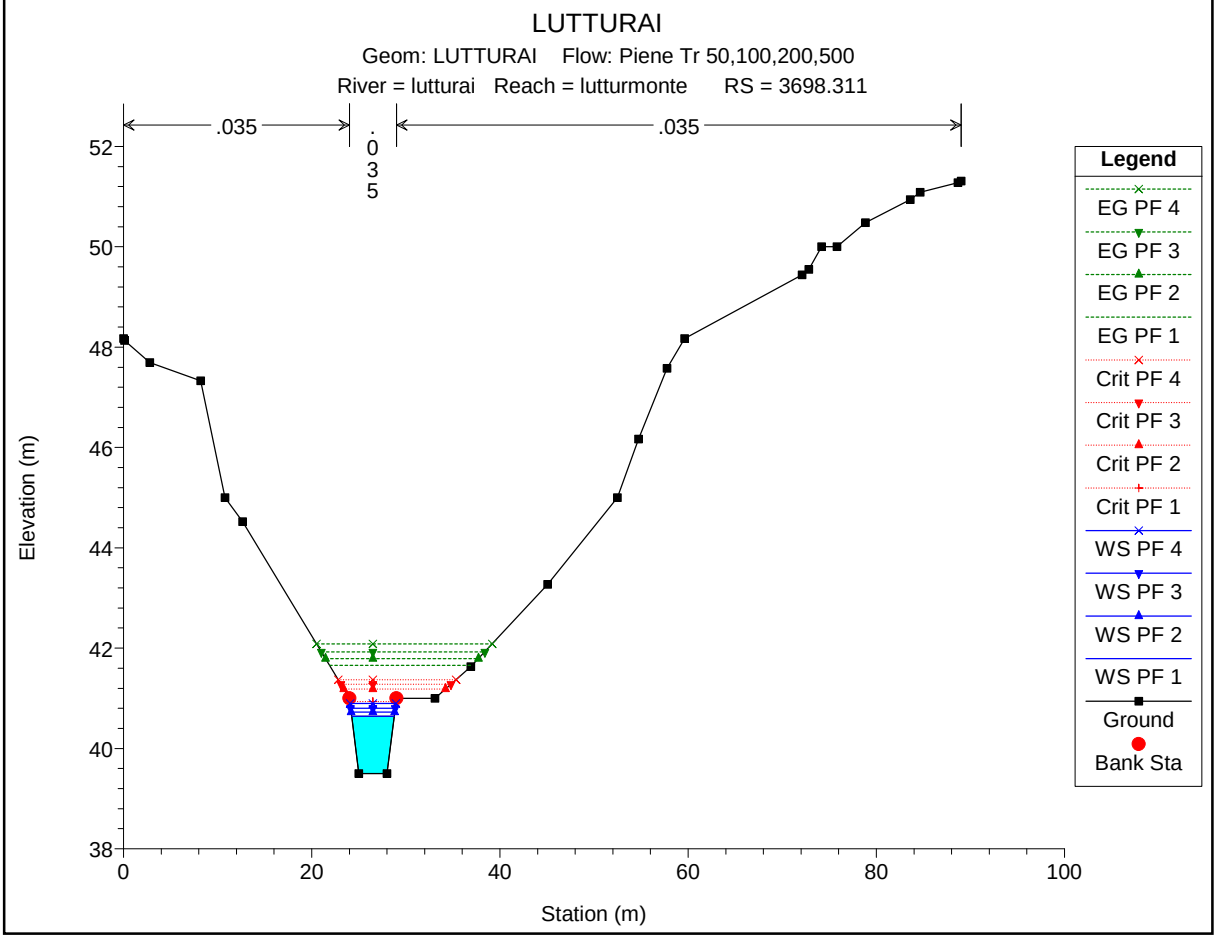

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 4044.486
.035
.035
.035
Elevation (m)
70
65
60
55
50
45
0
20
40
60
80
100
Station (m)
Legend
EG PF 4
EG PF 3
WS PF 4
EG PF 2
WS PF 3
EG PF 1
WS PF 2
WS PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Bank Sta

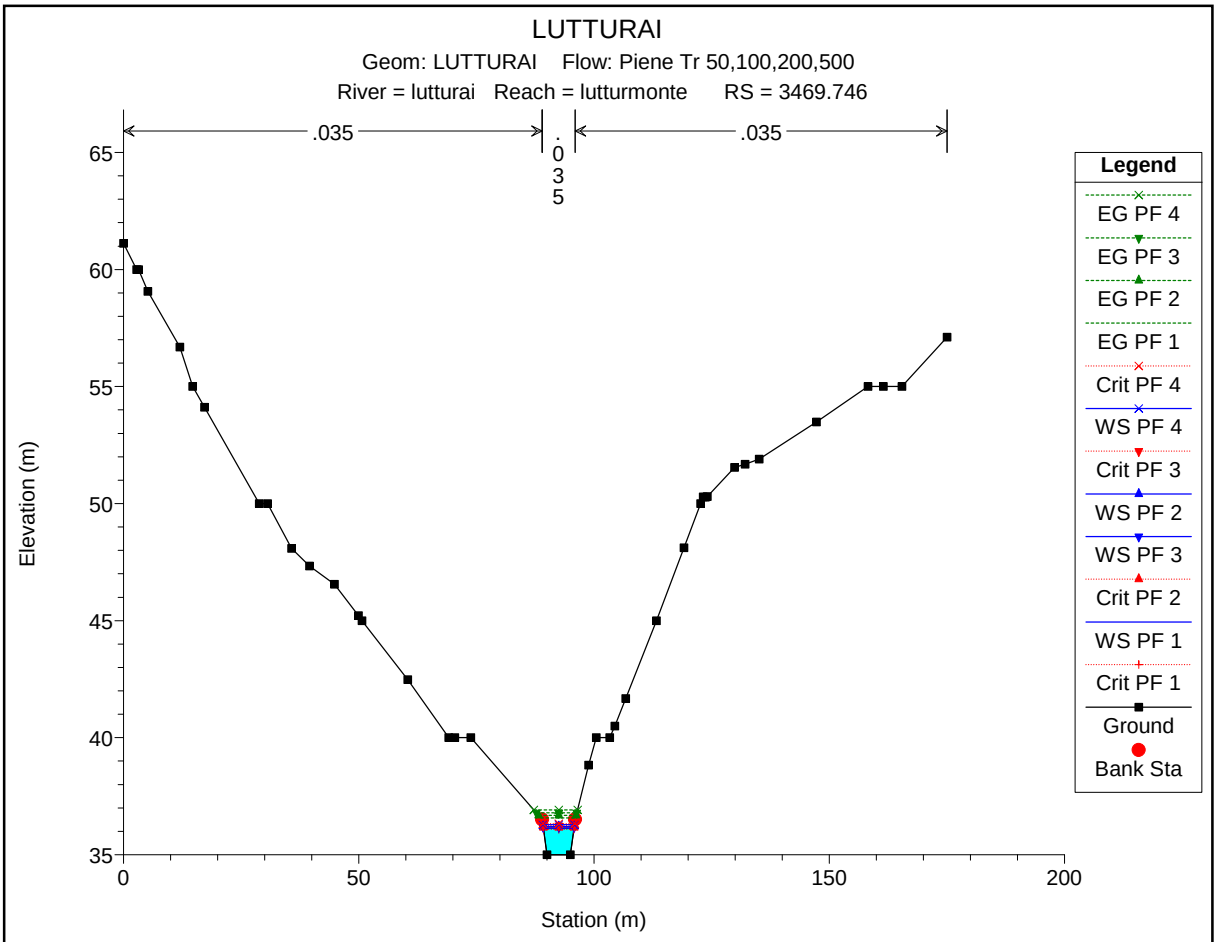

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 4040 Culv
.035
.035
.035
Elevation (m)
70
65
60
55
50
45
0
20
40
60
80
100
Station (m)
Legend
EG PF 4
EG PF 3
WS PF 4
EG PF 2
WS PF 3
EG PF 1
WS PF 2
WS PF 1
Crit PF 3
Crit PF 1
Crit PF 2
Crit PF 4
Ground
Bank Sta

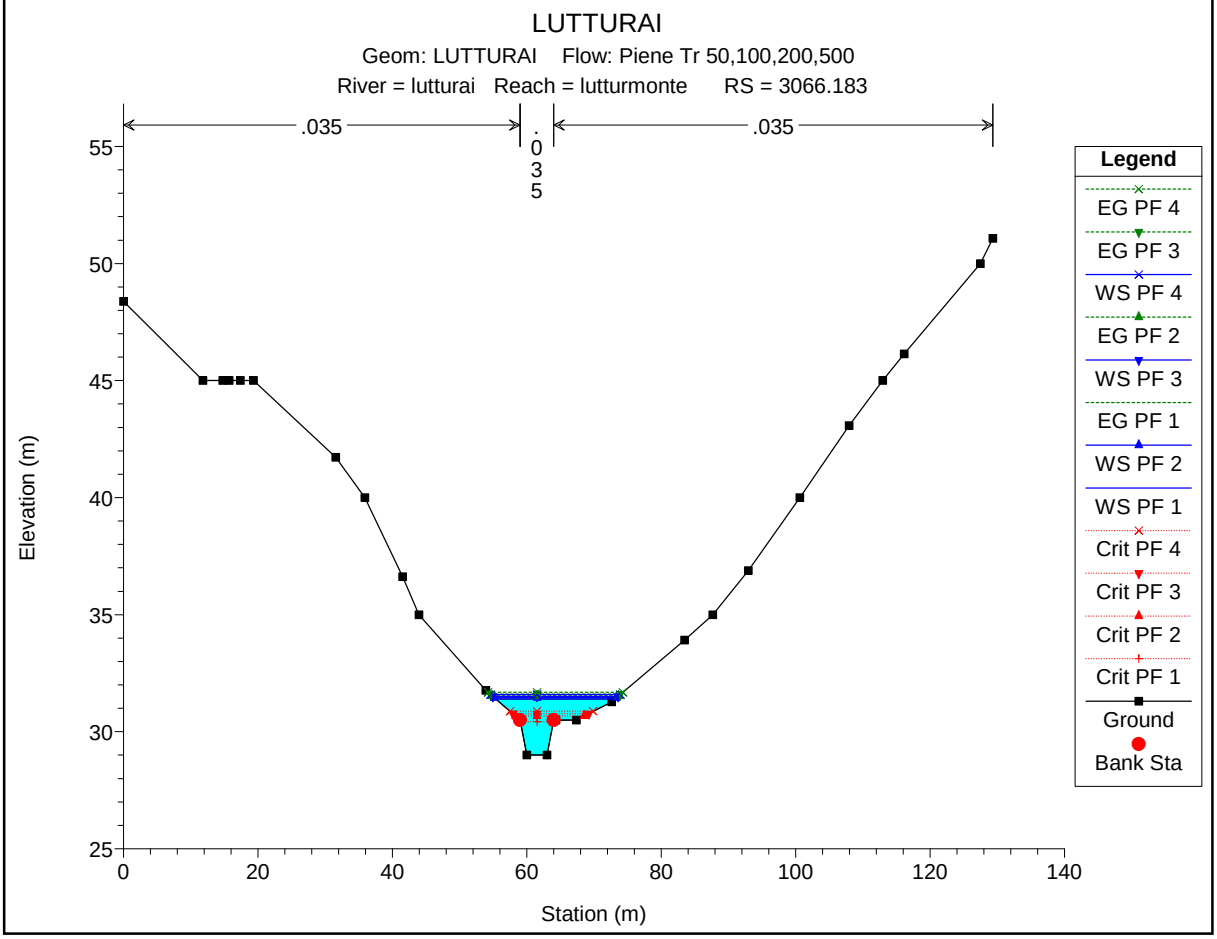

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 4040 Culv
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Crit PF 3
Crit PF 1
Crit PF 2
Crit PF 4
Ground
Bank Sta

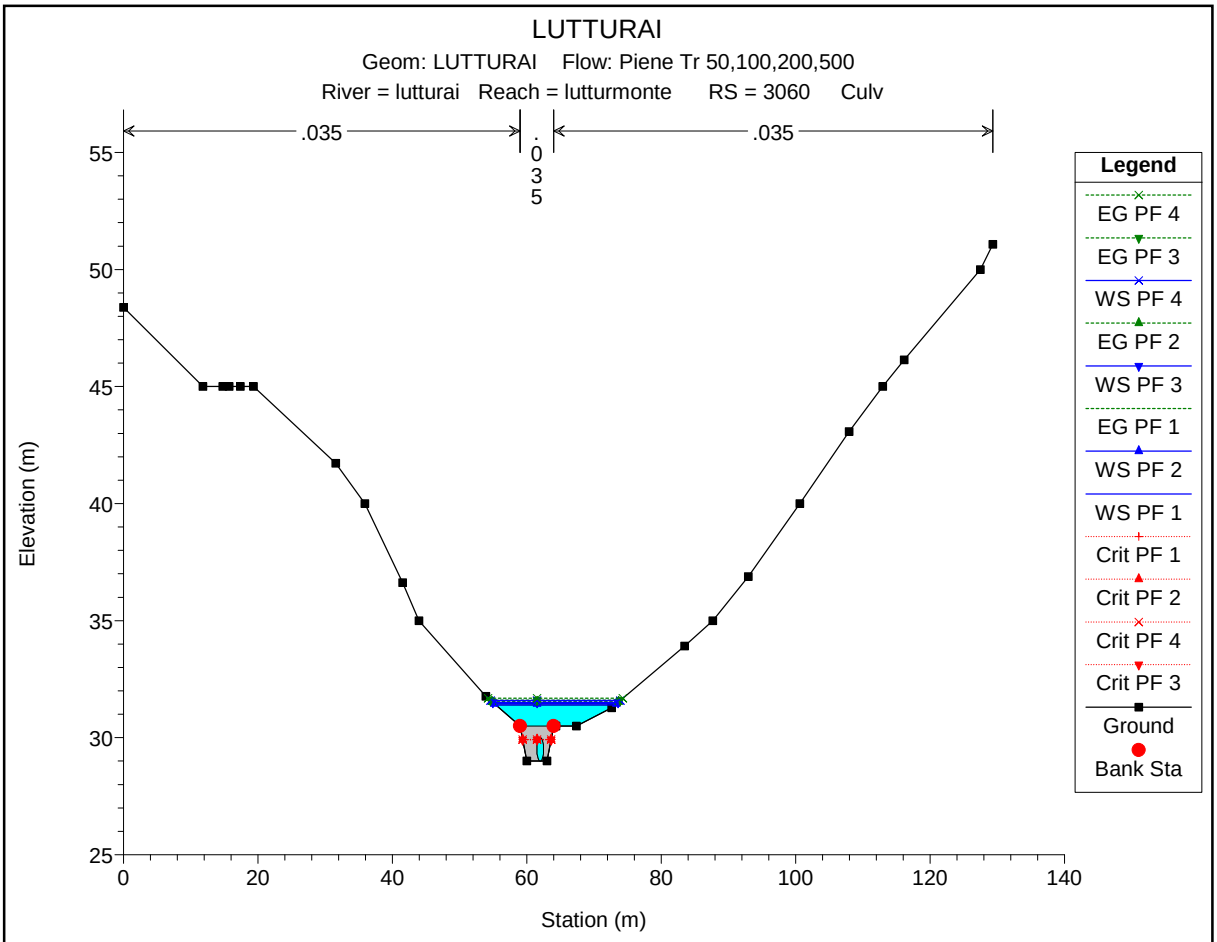

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 4033.575
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta

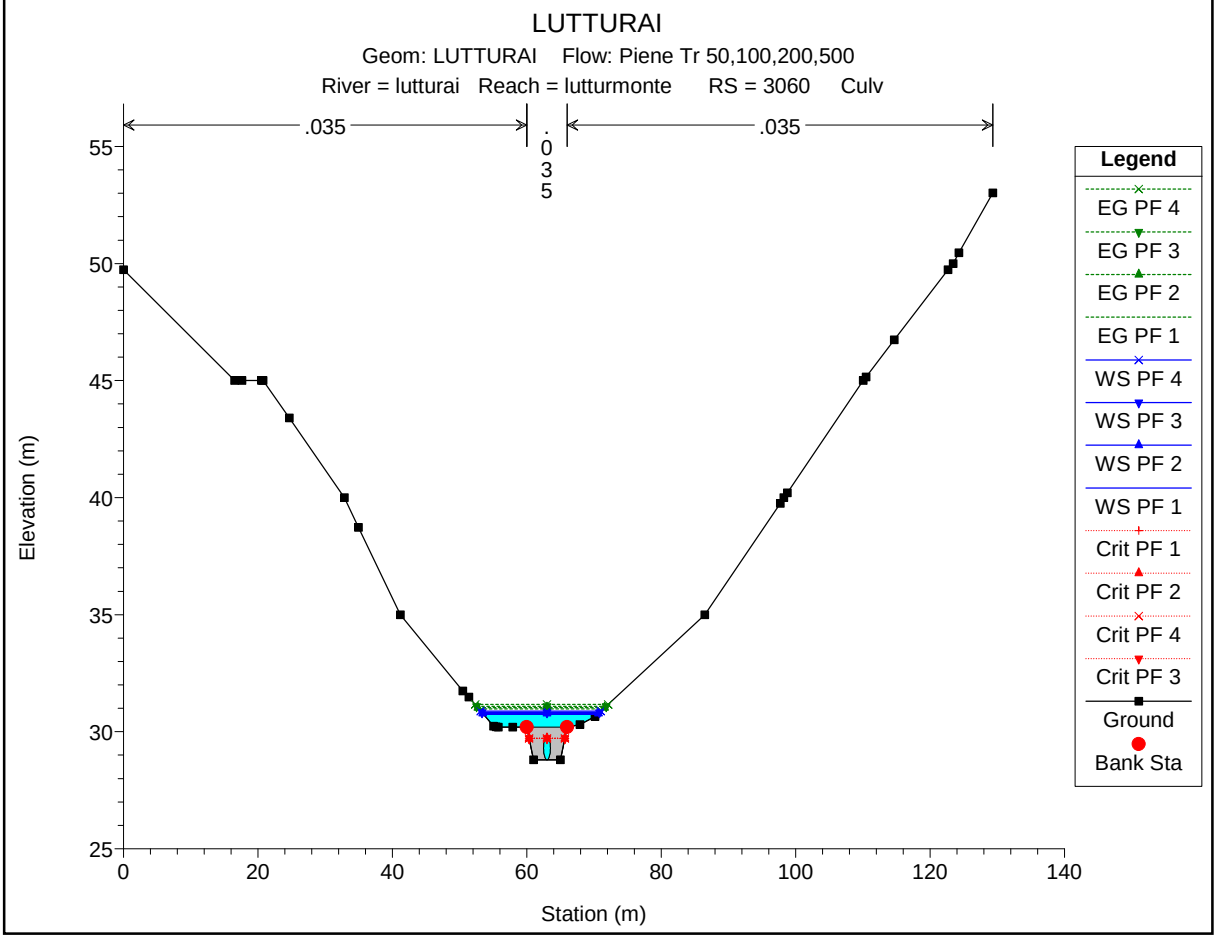

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 3711.835
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
WS PF 4
Crit PF 1
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
56
54
52
50
48
46
44
42
40
0
20
40
60
80
100

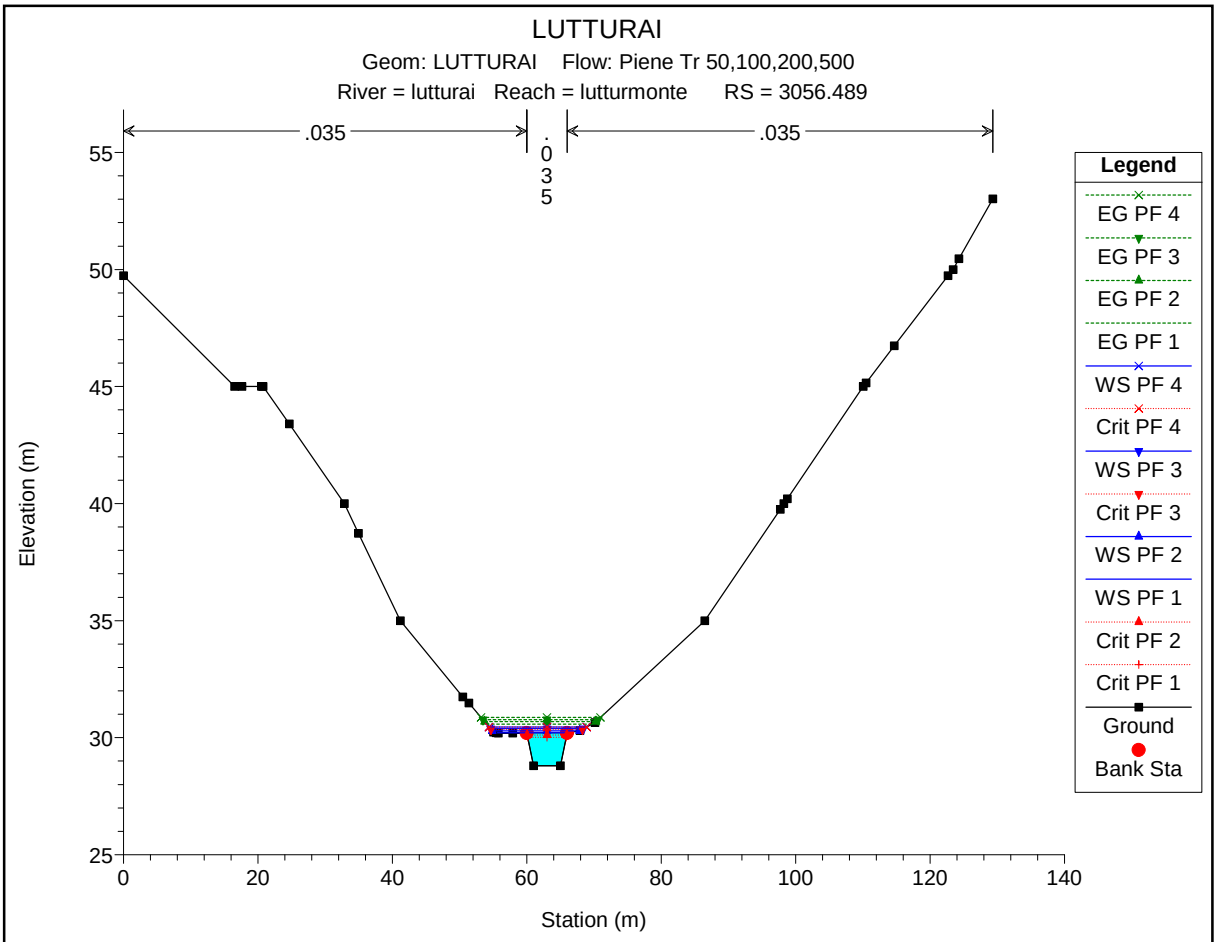

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 3698.311
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
52
50
48
46
44
42
40
38
0
20
40
60
80
100

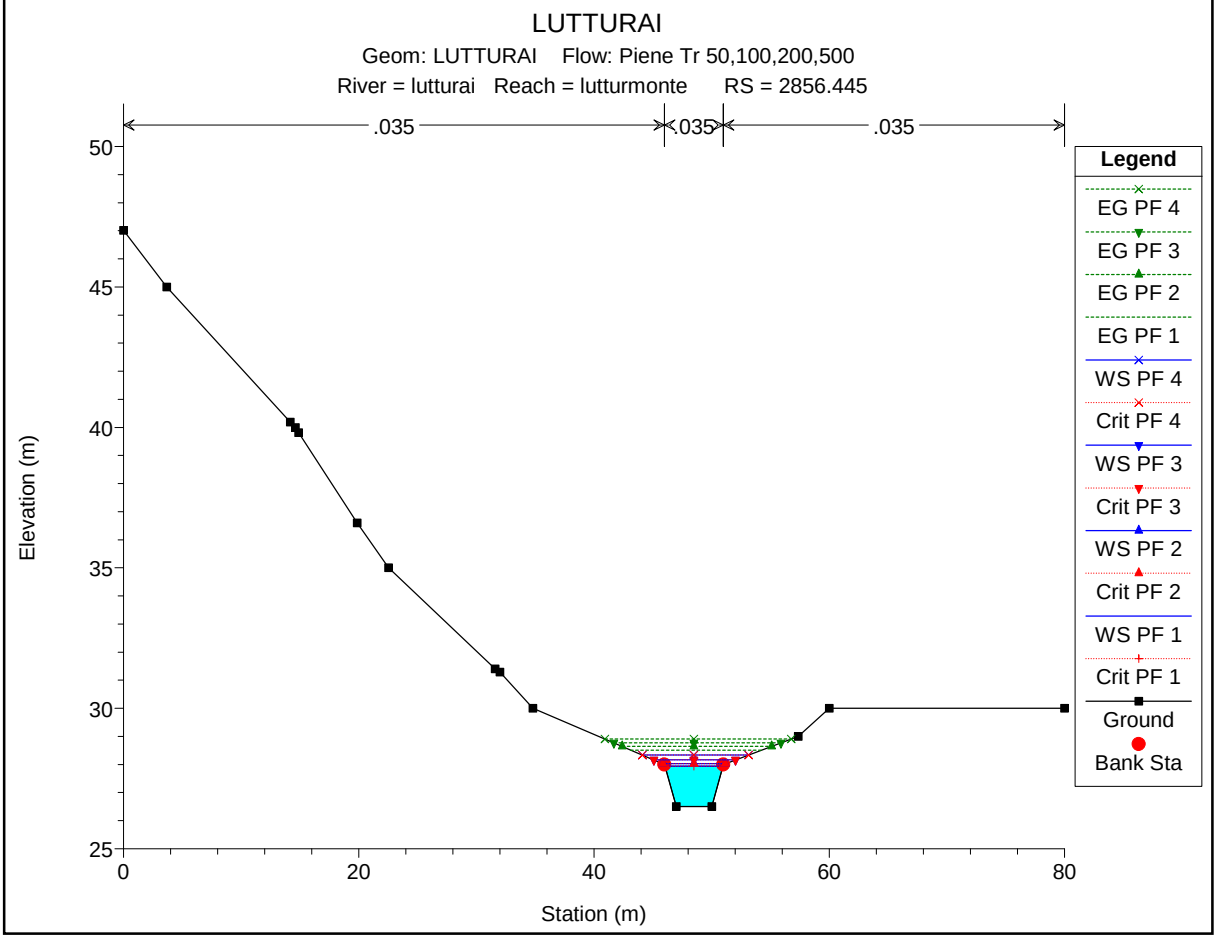

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 3469.746
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
WS PF 4
Crit PF 3
WS PF 2
WS PF 3
Crit PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
65
60
55
50
45
40
35
0
50
100
150
200

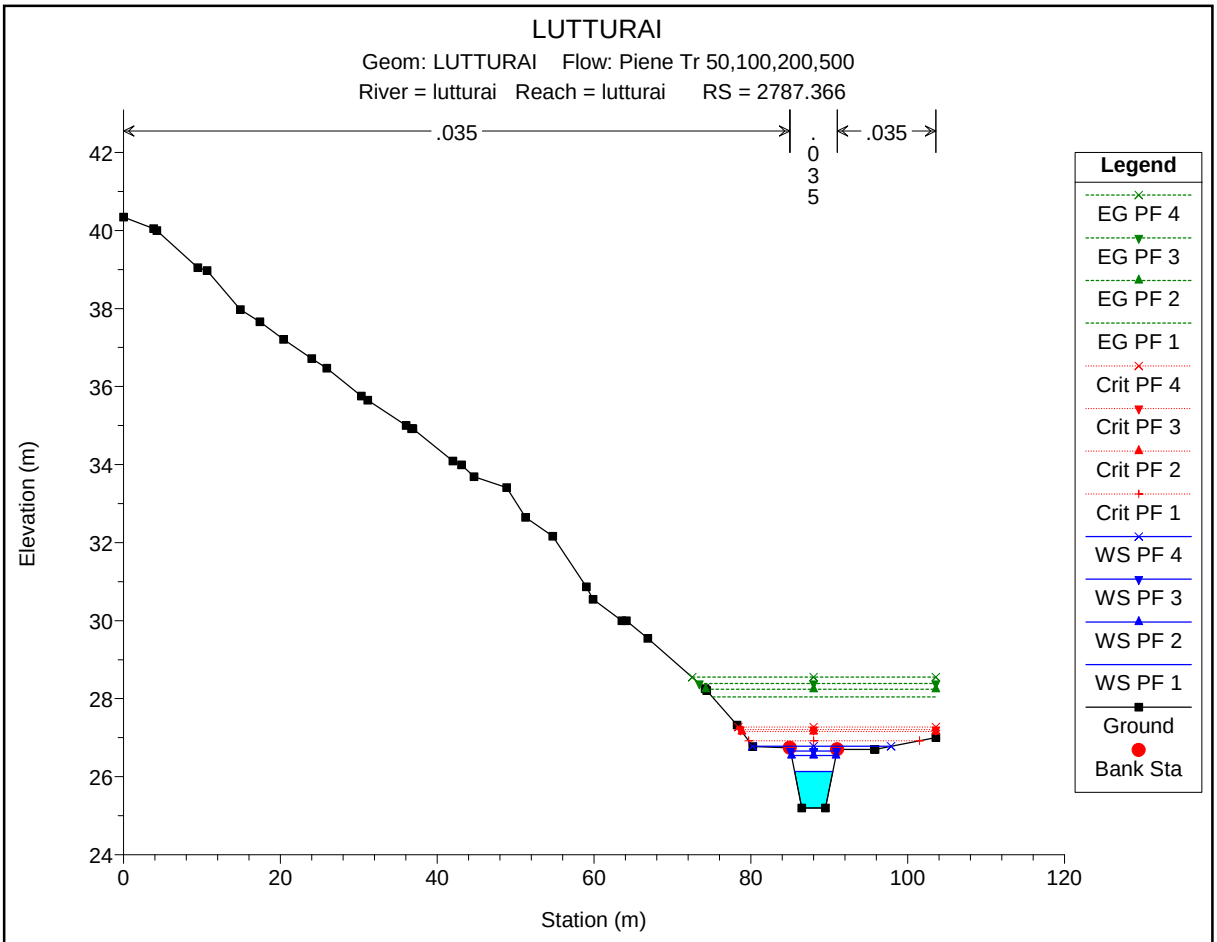

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 3066.183
.035
.035
.035
Legend
EG PF 4
EG PF 3
WS PF 4
EG PF 2
WS PF 3
EG PF 1
WS PF 2
WS PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
55
50
45
40
35
30
25
0
20
40
60
80
100
120
140

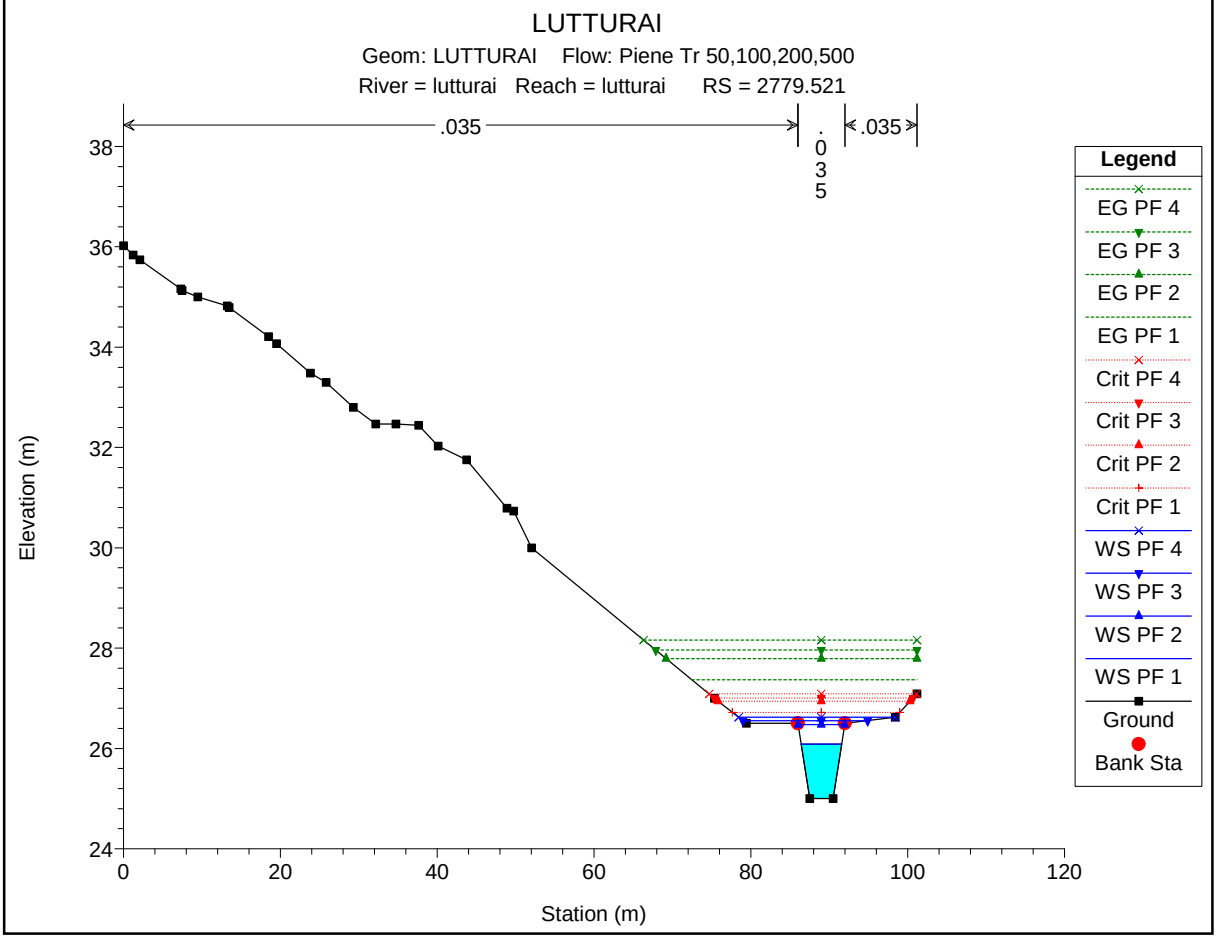

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 3060 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
WS PF 4
EG PF 2
WS PF 3
EG PF 1
WS PF 2
WS PF 1
Crit PF 1
Crit PF 2
Crit PF 4
Crit PF 3
Ground
Bank Sta
Elevation (m)
Station (m)
25
30
35
40
45
50
55
0
20
40
60
80
100
120
140

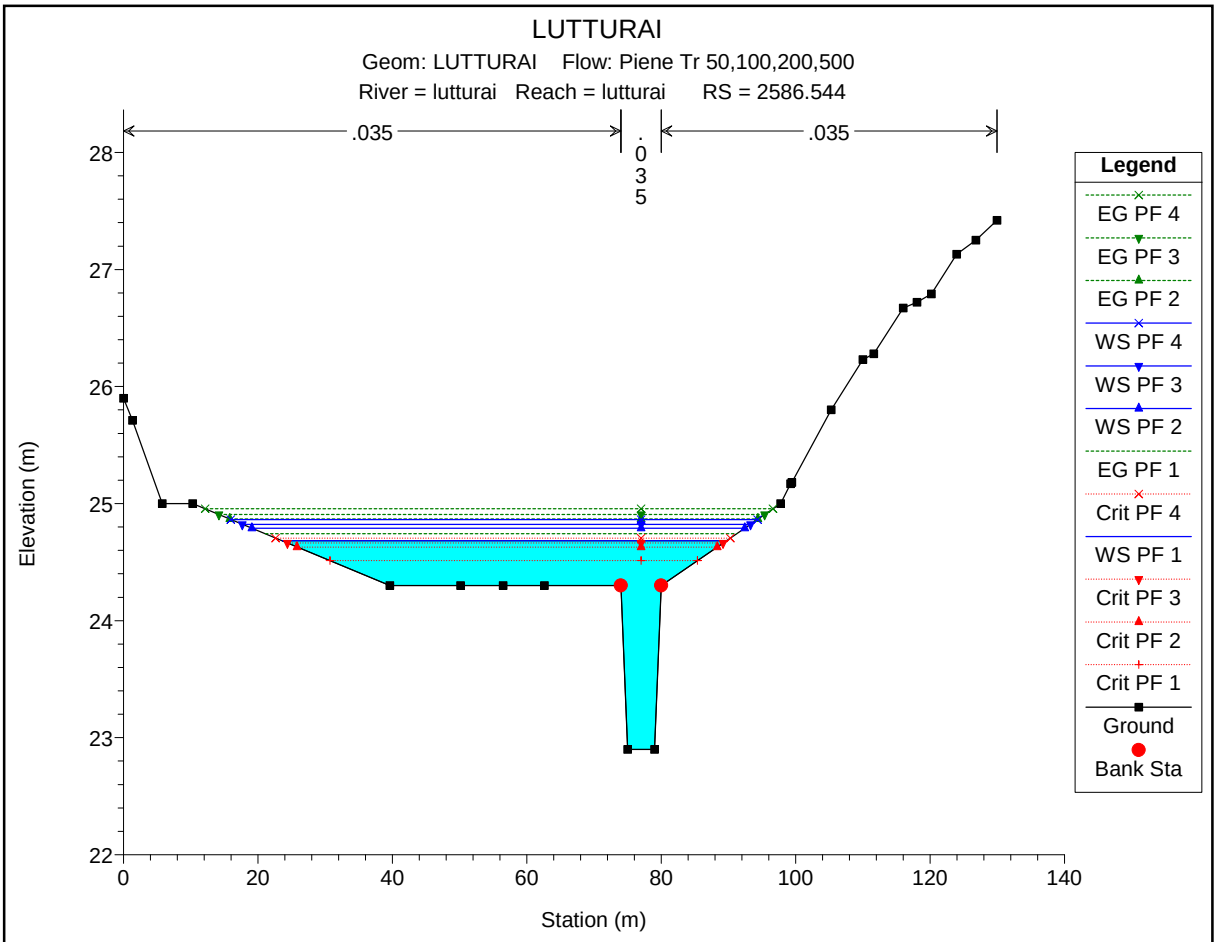

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 3060 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Crit PF 1
Crit PF 2
Crit PF 4
Crit PF 3
Ground
Bank Sta
Elevation (m)
Station (m)
25
30
35
40
45
50
55
0
20
40
60
80
100
120
140

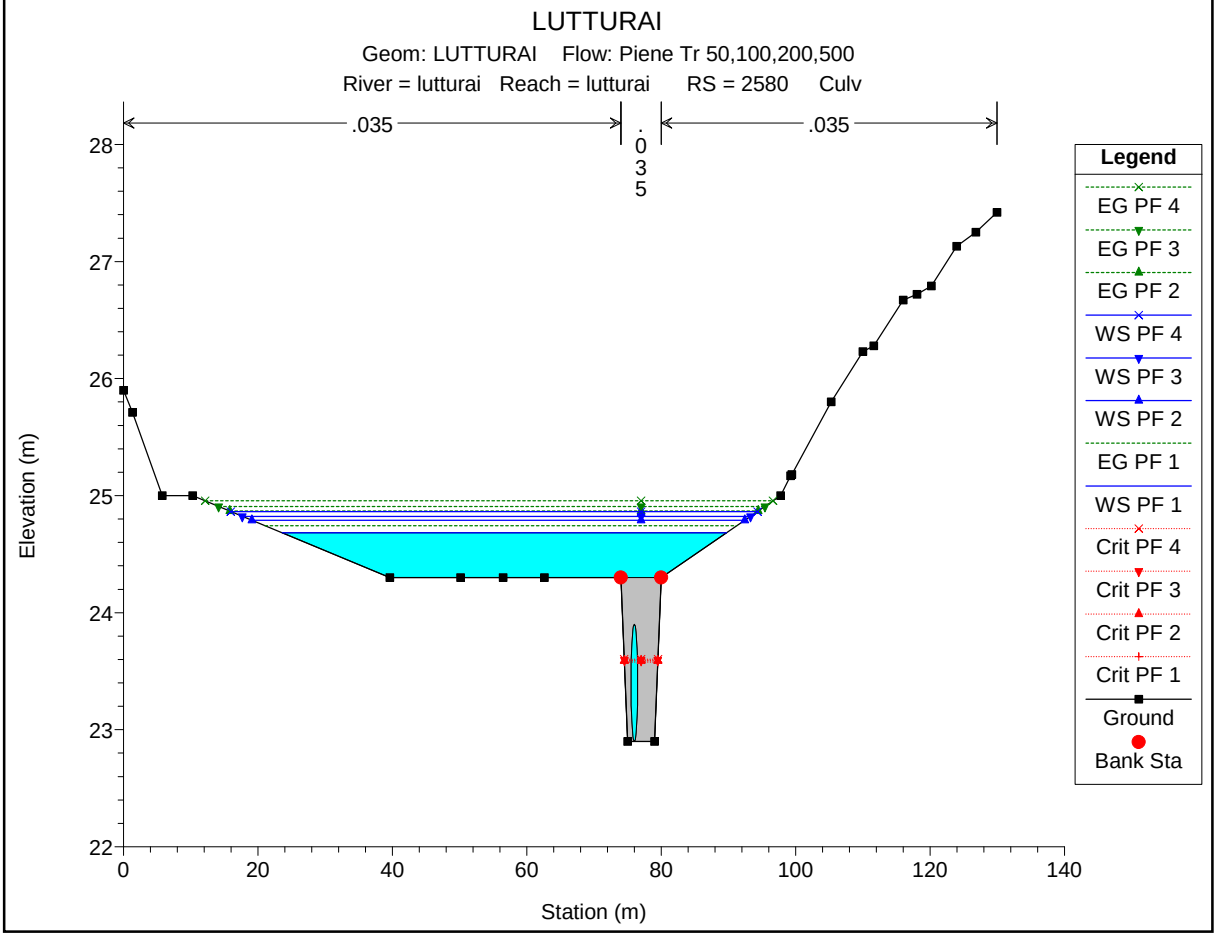

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 3056.489
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
WS PF 1
Crit PF 2
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)

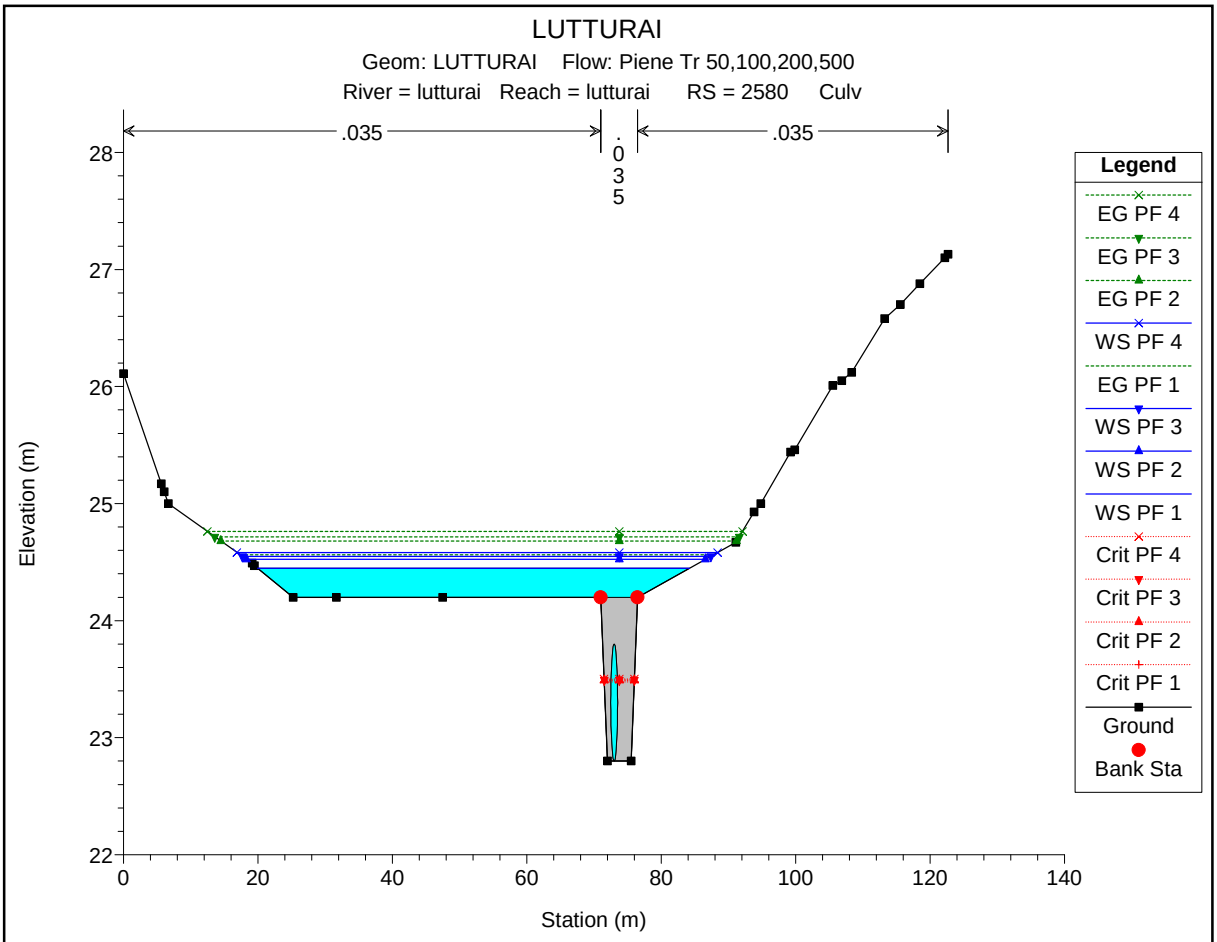

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturmonte RS = 2856.445
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)

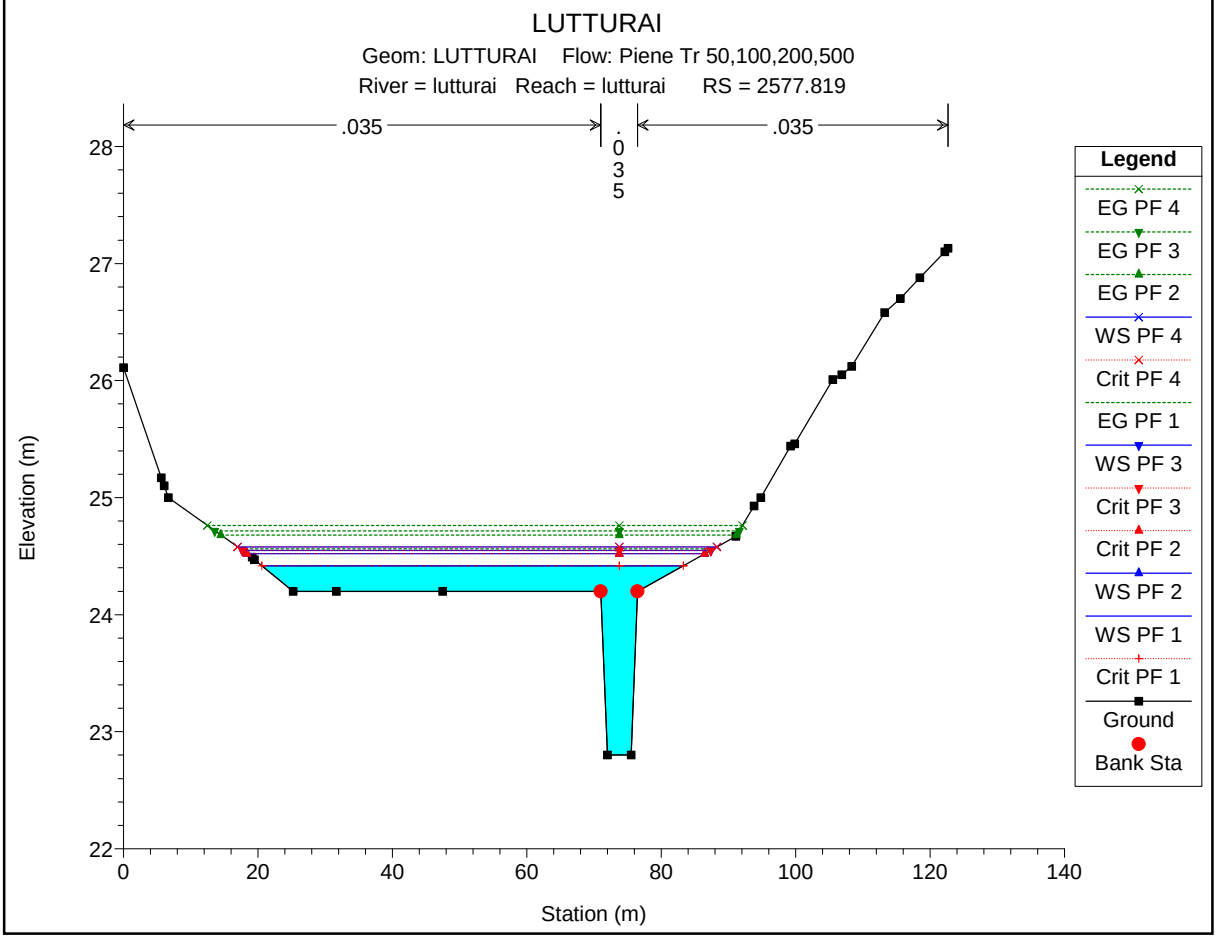

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2787.366
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
42
40
38
36
34
32
30
28
26
24
0
20
40
60
80
100
120

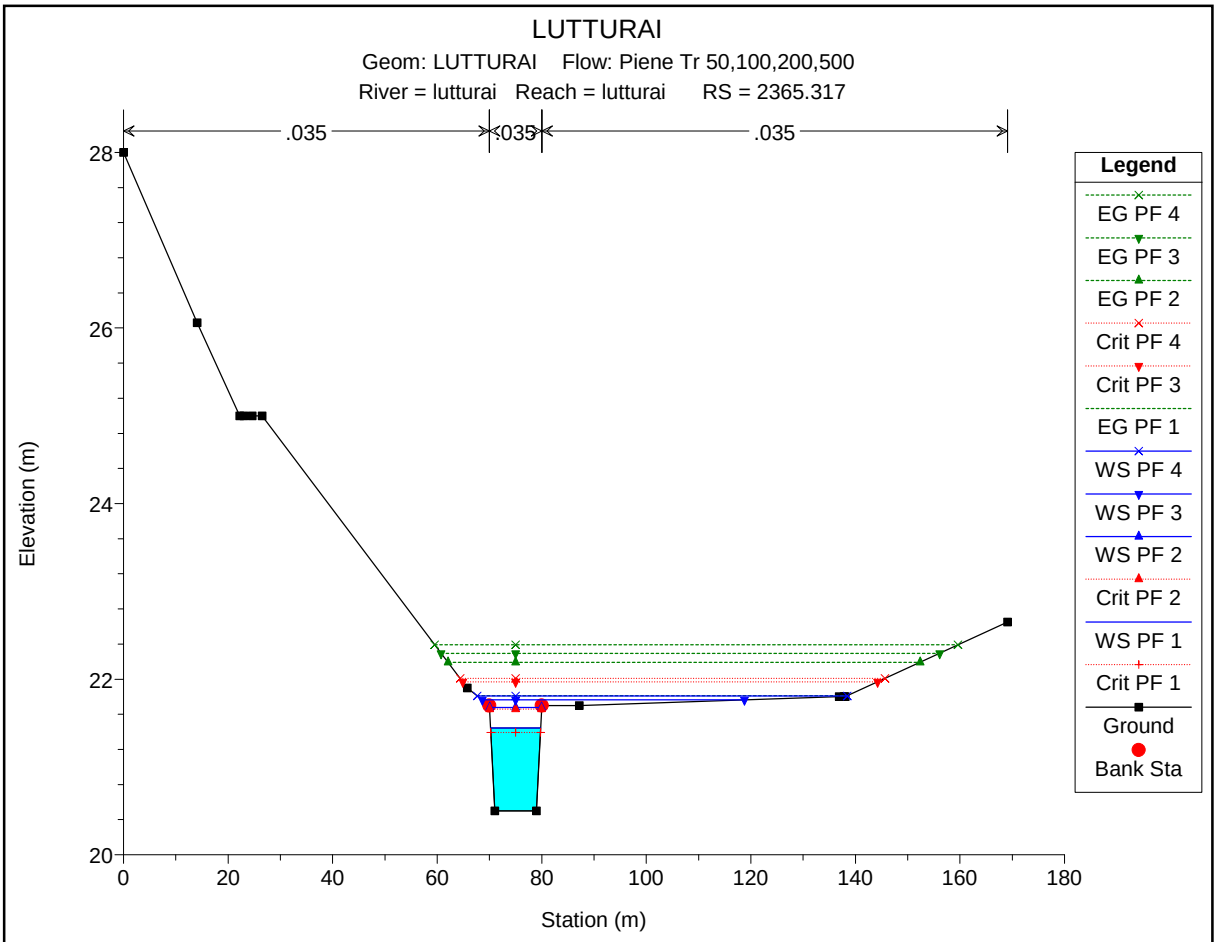

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2779.521
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
38
36
34
32
30
28
26
24
0
20
40
60
80
100
120

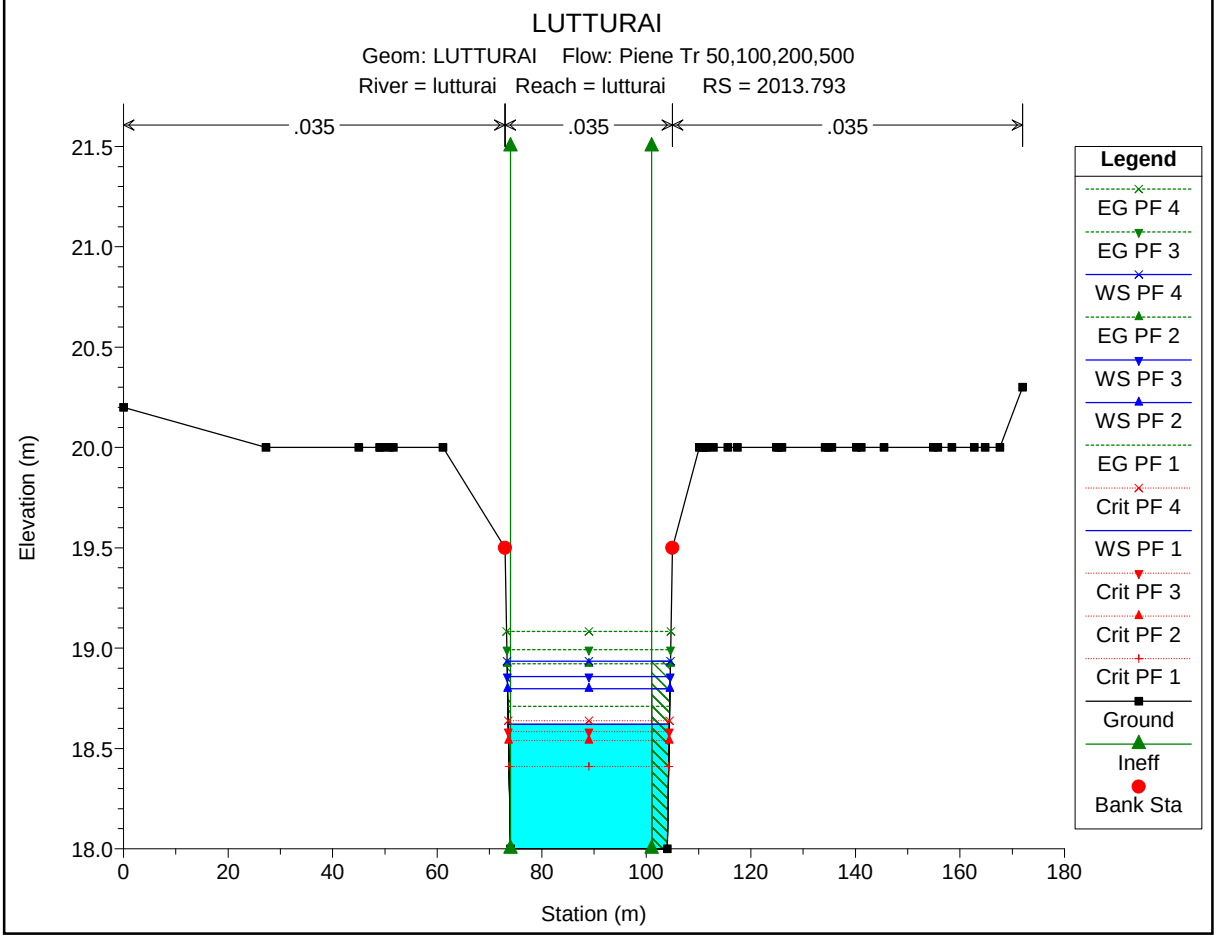

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2586.544
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
WS PF 3
WS PF 2
EG PF 1
Crit PF 4
WS PF 1
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
22
23
24
25
26
27
28
0
20
40
60
80
100
120
140

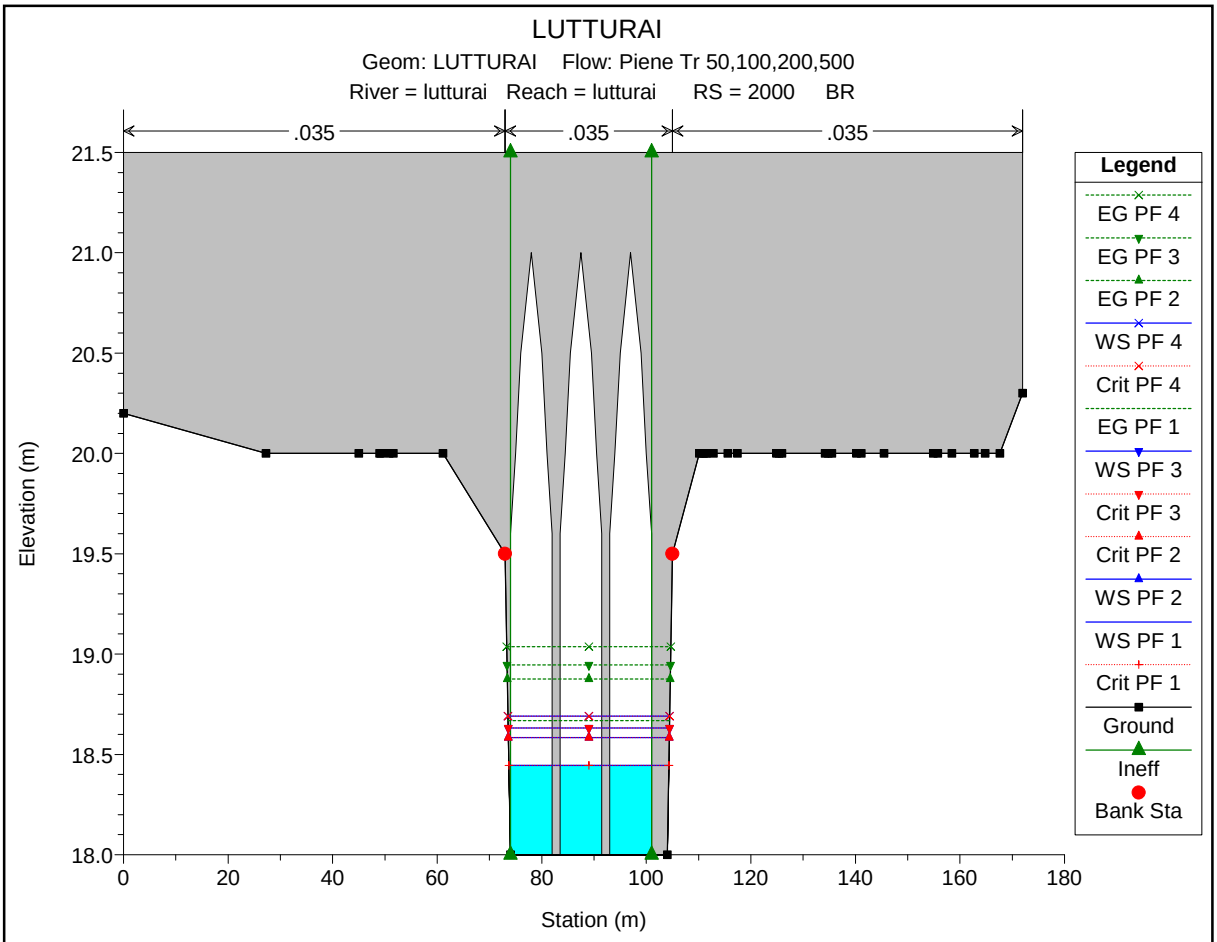

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2580 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
WS PF 3
WS PF 2
EG PF 1
WS PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
22
23
24
25
26
27
28
0
20
40
60
80
100
120
140

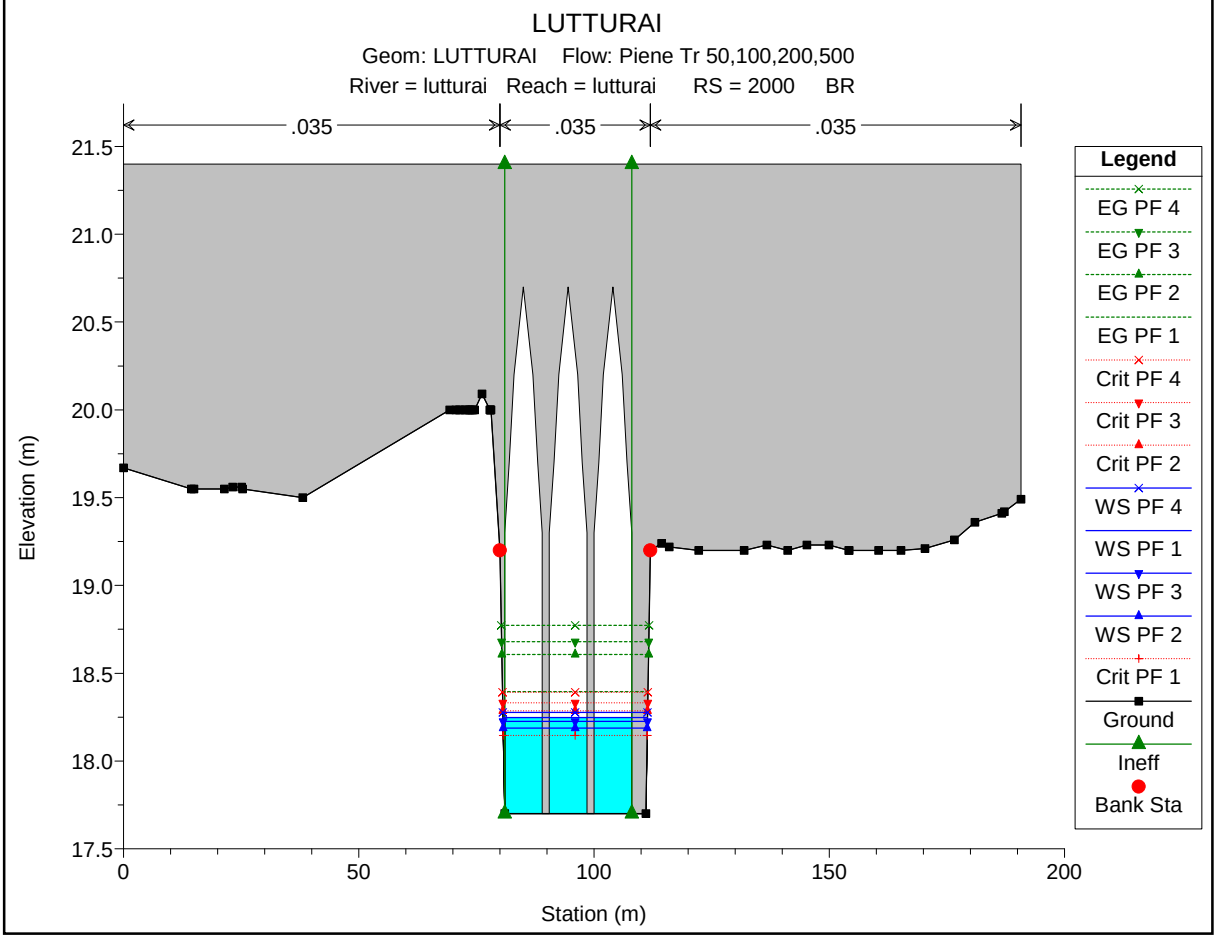

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2580 Culv
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
EG PF 1
WS PF 3
WS PF 2
WS PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Bank Sta

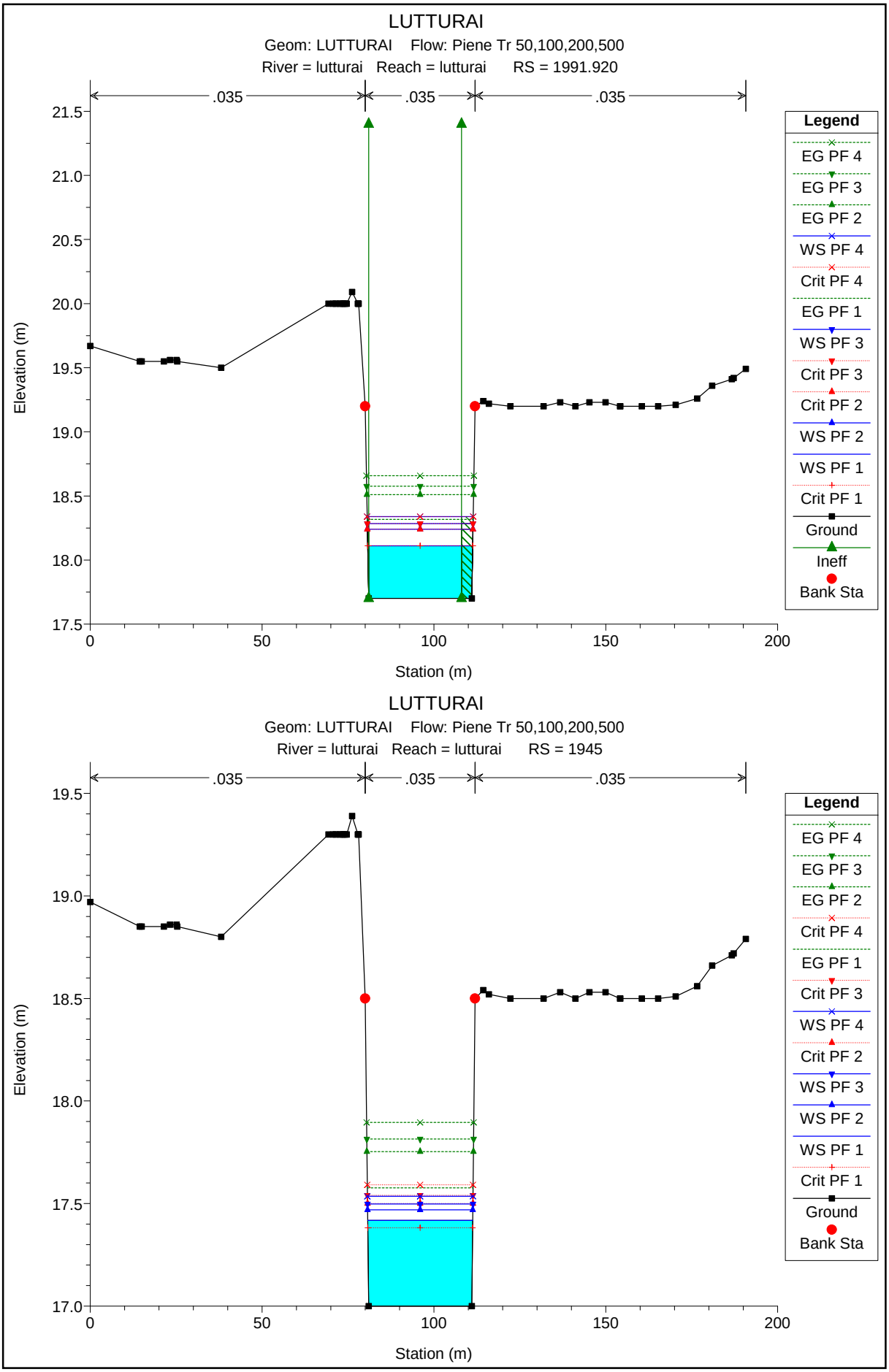

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2577.819
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
Crit PF 4
EG PF 1
WS PF 3
Crit PF 3
Crit PF 2
WS PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta

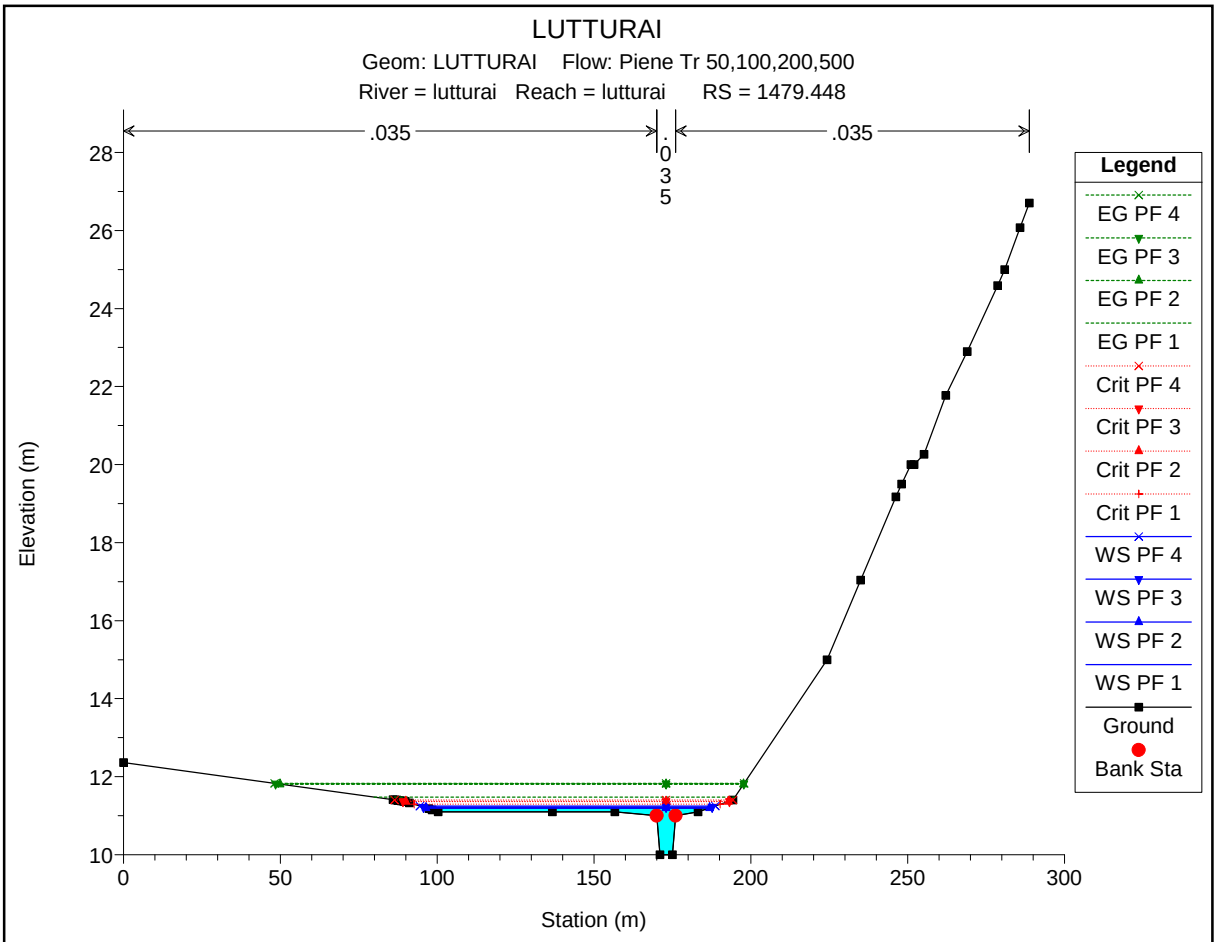

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2365.317
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
Crit PF 4
Crit PF 3
EG PF 1
WS PF 4
WS PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
28
26
24
22
20
0
20
40
60
80
100
120
140
160
180

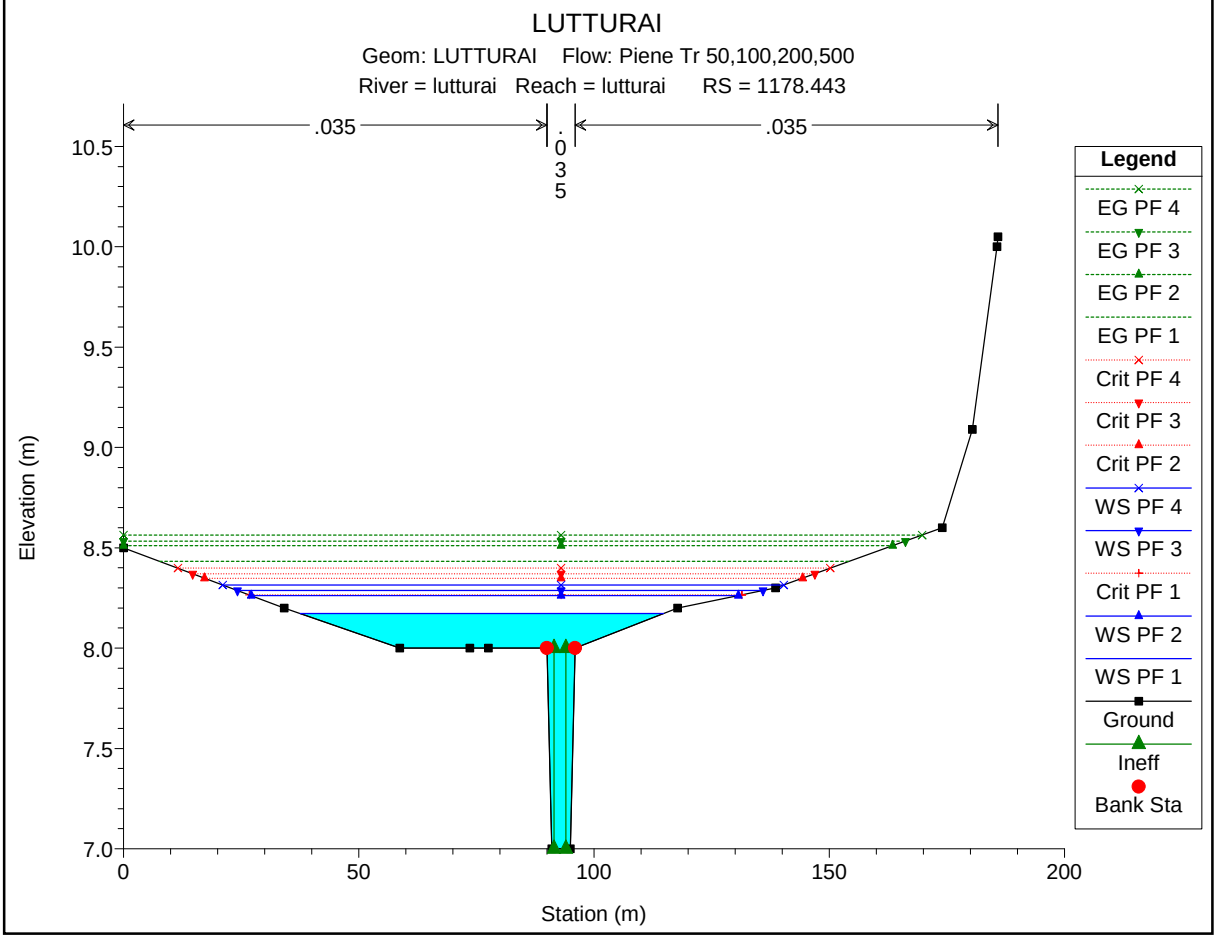

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2013.793
.035
.035
.035
Legend
EG PF 4
EG PF 3
WS PF 4
EG PF 2
WS PF 3
WS PF 2
EG PF 1
Crit PF 4
WS PF 1
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
21.5
21.0
20.5
20.0
19.5
19.0
18.5
18.0
0
20
40
60
80
100
120
140
160
180

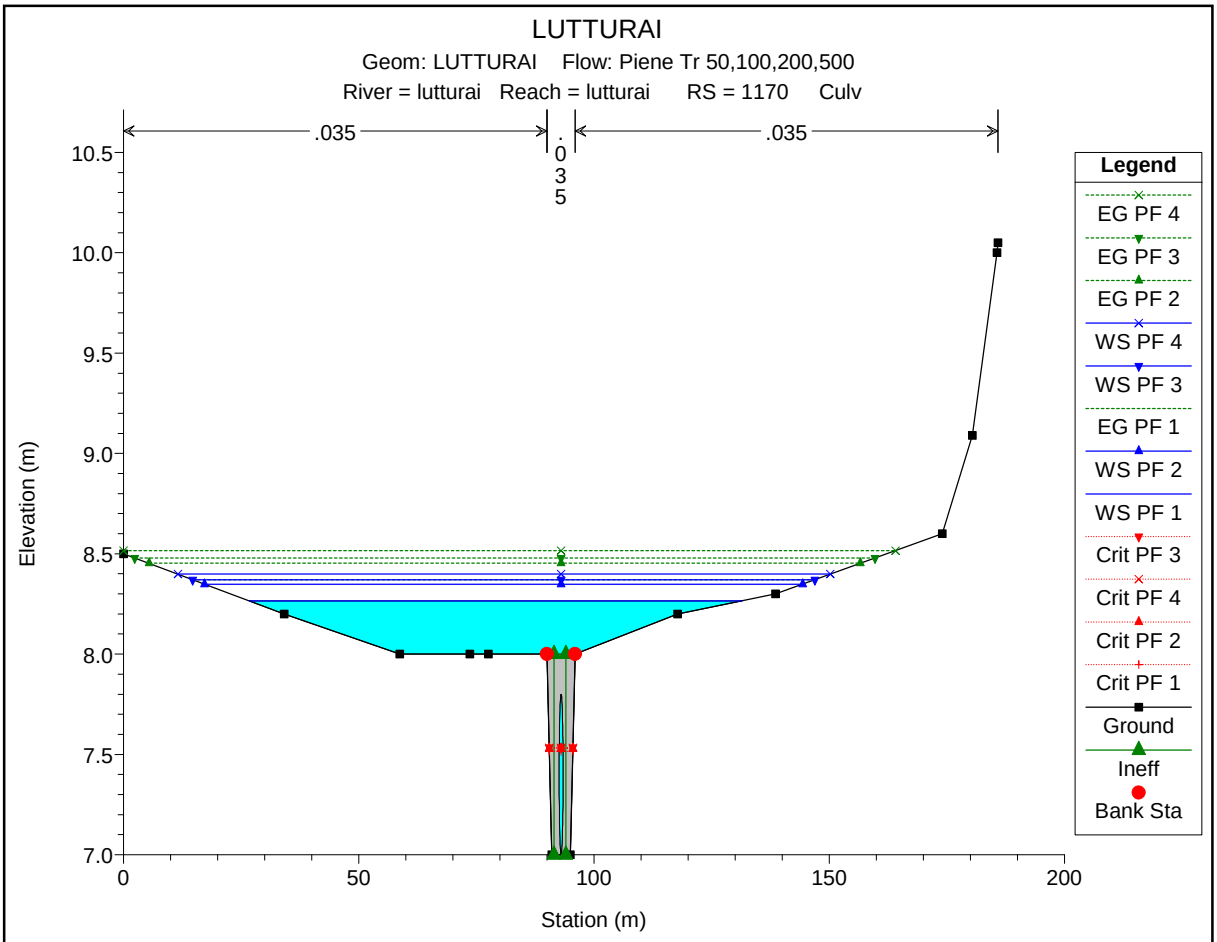

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2000 BR
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
Crit PF 4
EG PF 1
WS PF 3
Crit PF 3
Crit PF 2
WS PF 2
WS PF 1
Crit PF 1
Ground
Ineff
Bank Sta

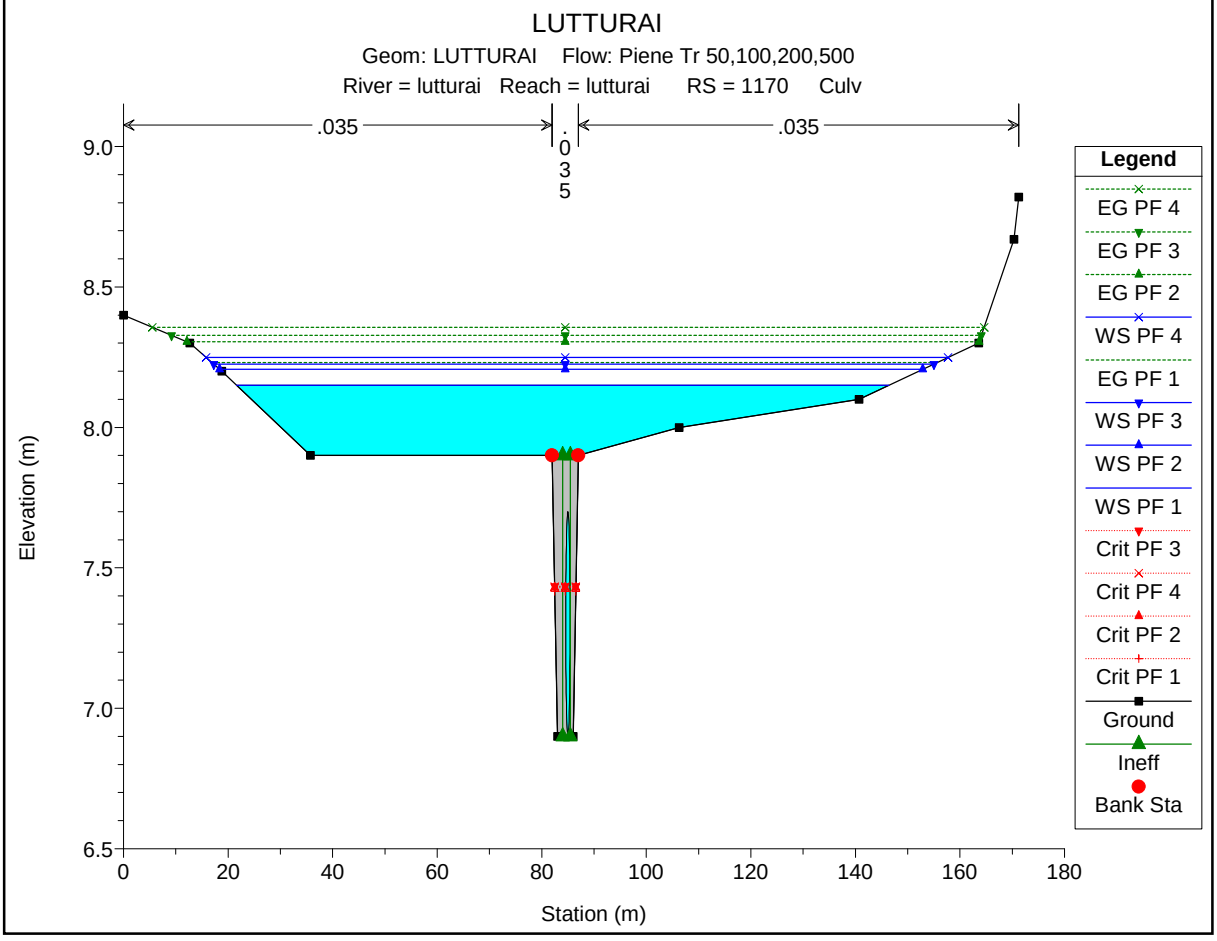

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 2000 BR
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
WS PF 4
WS PF 1
WS PF 3
WS PF 2
Crit PF 1
Ground
Ineff
Bank Sta

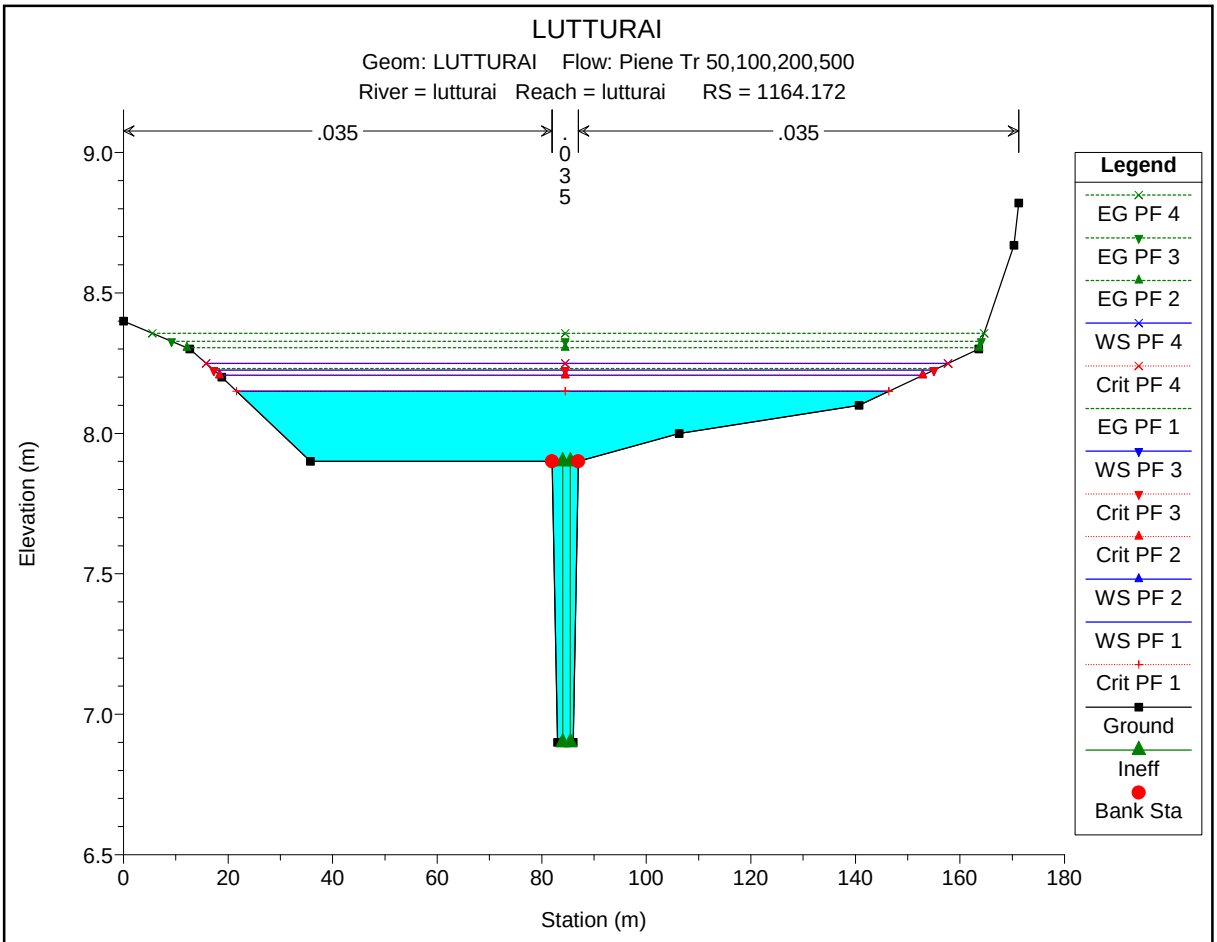

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 1991.920
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
Crit PF 4
EG PF 1
WS PF 3
Crit PF 3
Crit PF 2
WS PF 2
WS PF 1
Crit PF 1
Ground
Ineff
Bank Sta
LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 1945
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
Crit PF 4
EG PF 1
Crit PF 3
WS PF 4
Crit PF 2
WS PF 3
WS PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta

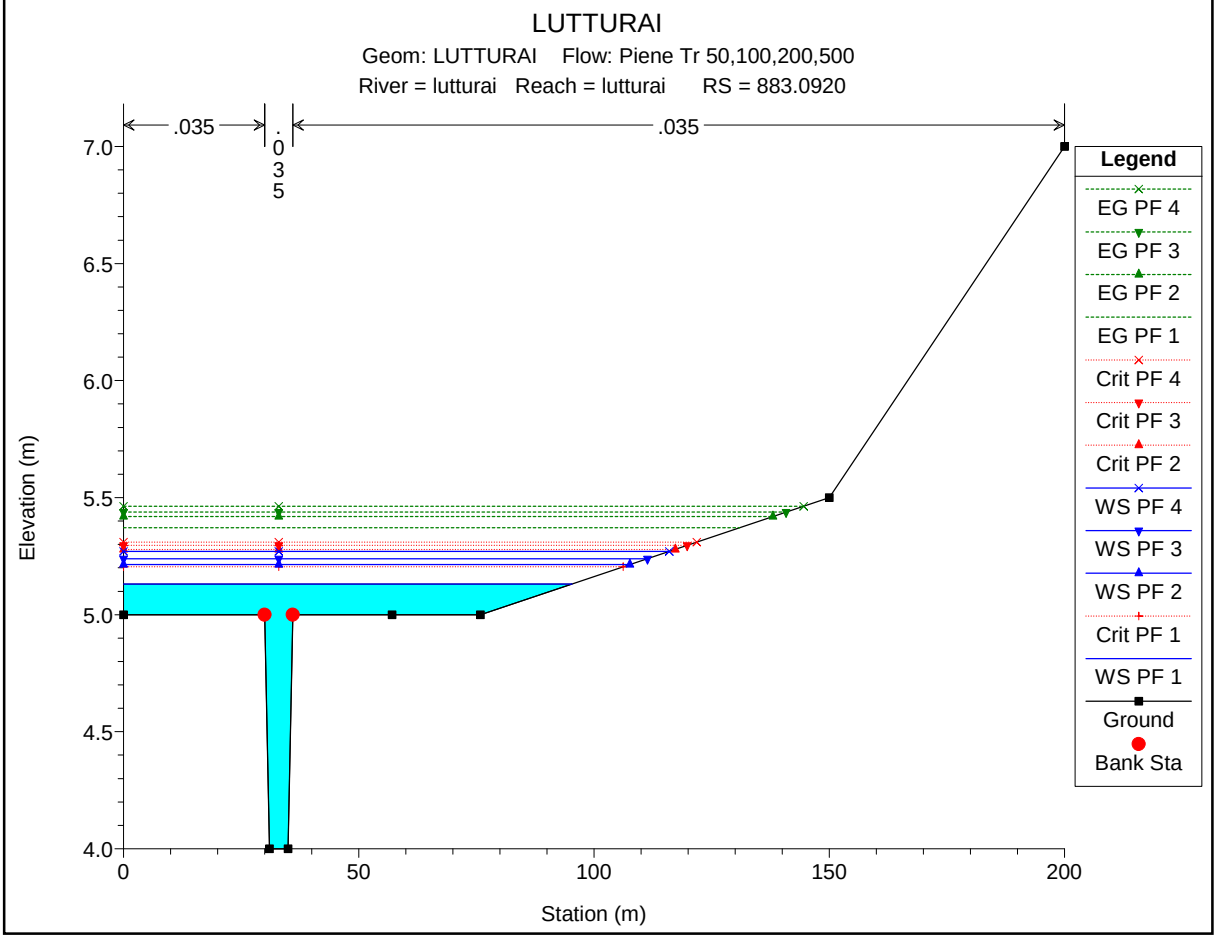

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 1479.448
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)

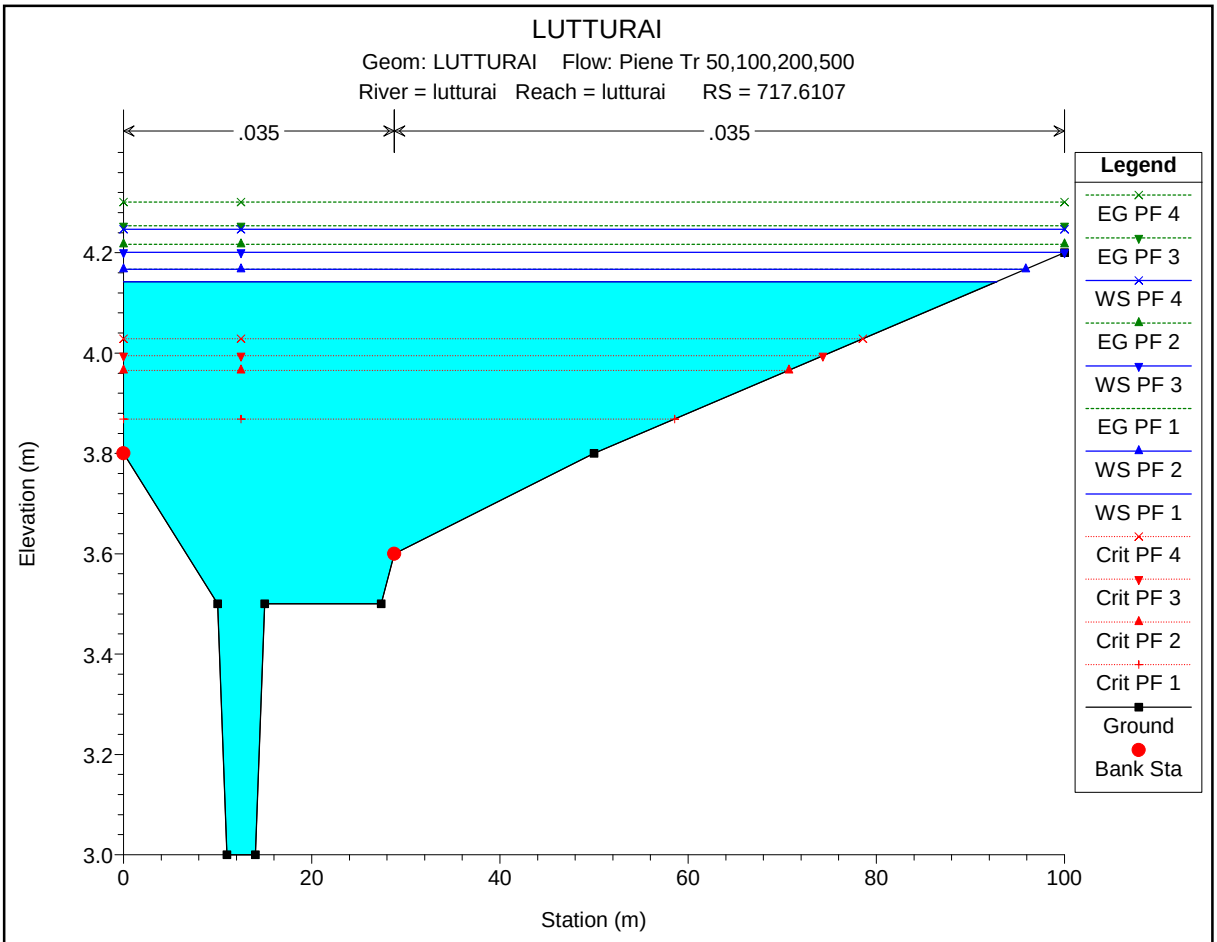

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 1178.443
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
WS PF 4
WS PF 3
Crit PF 1
WS PF 2
WS PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

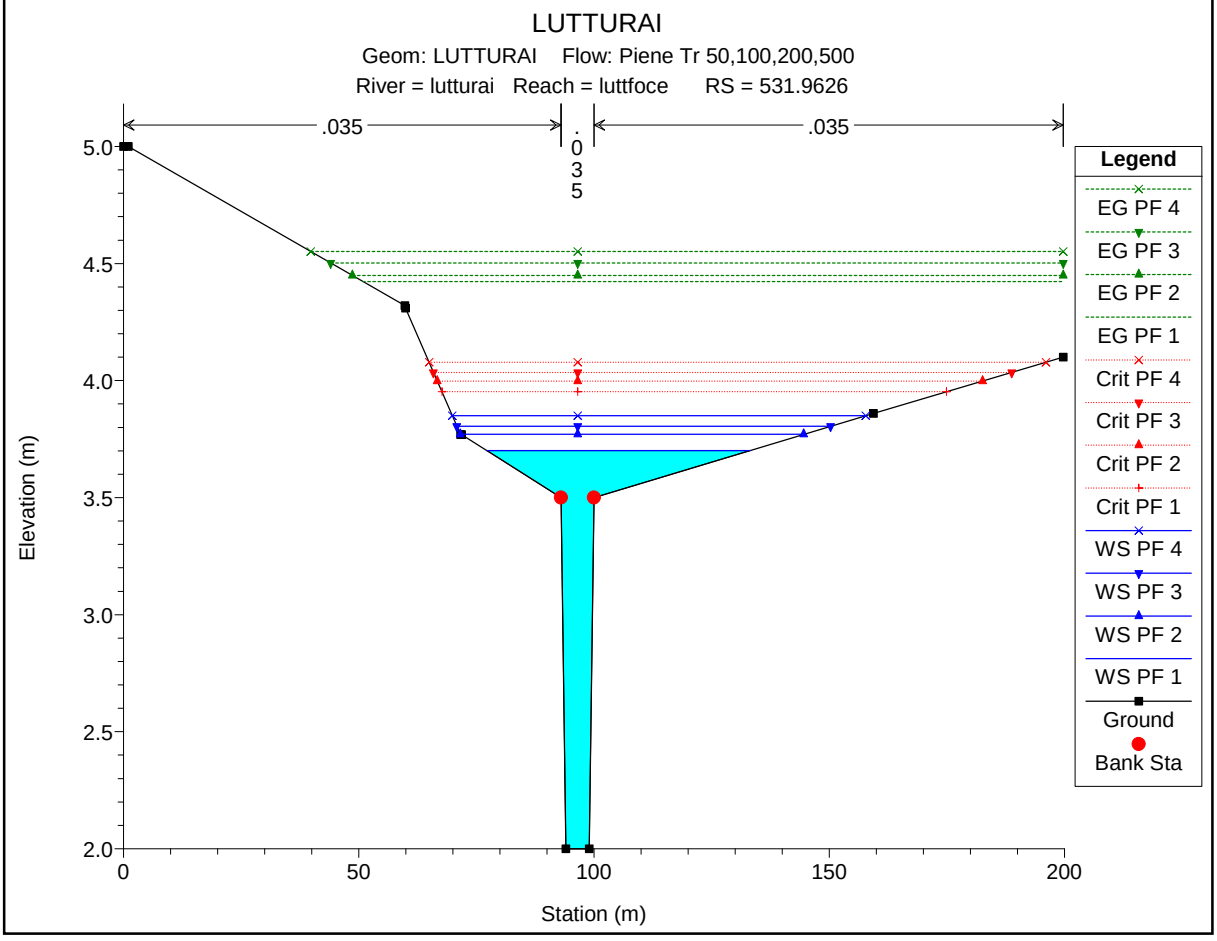

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 1170 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
WS PF 3
EG PF 1
WS PF 2
WS PF 1
Crit PF 3
Crit PF 4
Crit PF 2
Crit PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

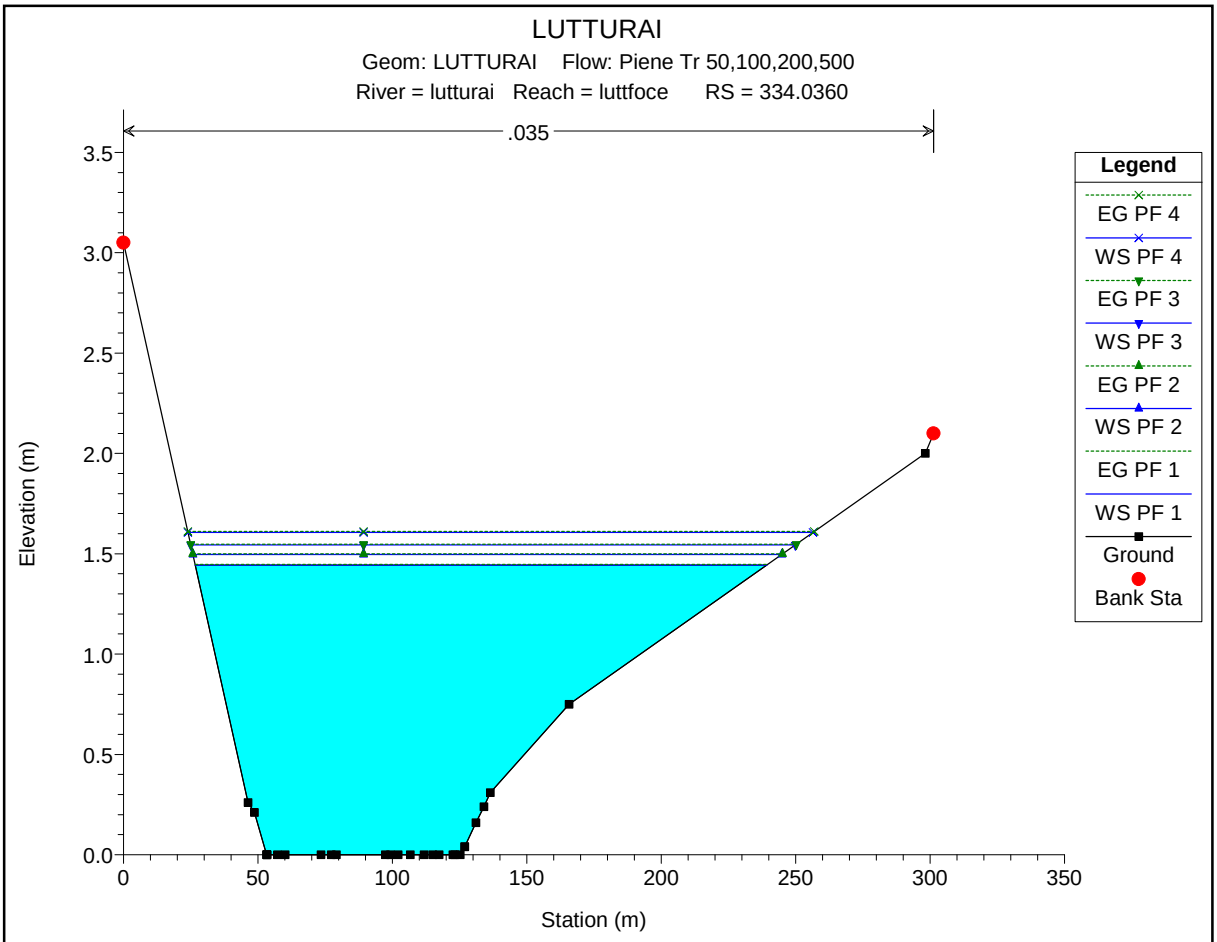

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 1170 Culv
.035
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
EG PF 1
WS PF 3
WS PF 2
WS PF 1
Crit PF 3
Crit PF 4
Crit PF 2
Crit PF 1
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

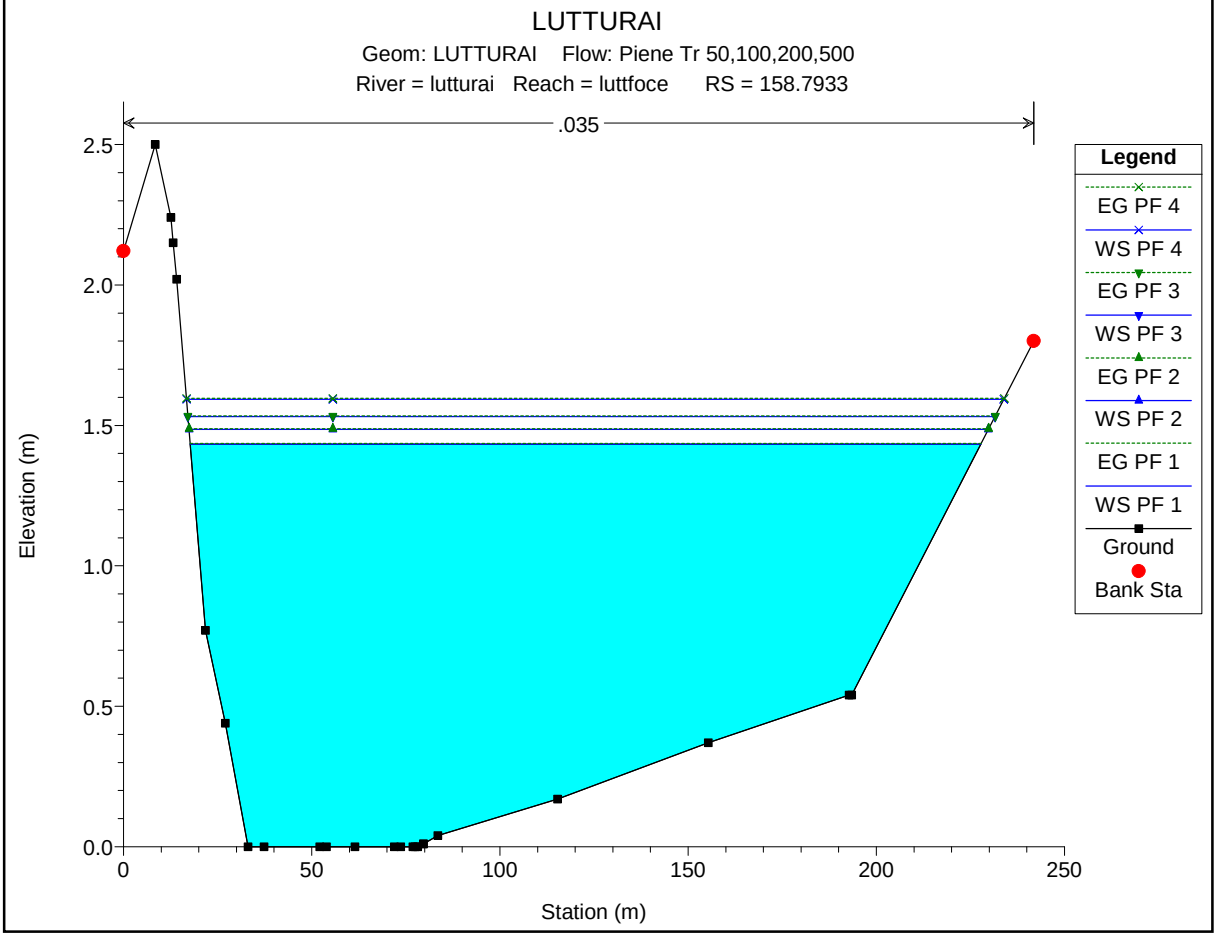

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 1164.172
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
WS PF 4
Crit PF 4
EG PF 1
WS PF 3
Crit PF 3
Crit PF 2
WS PF 2
WS PF 1
Crit PF 1
Ground
Ineff
Bank Sta

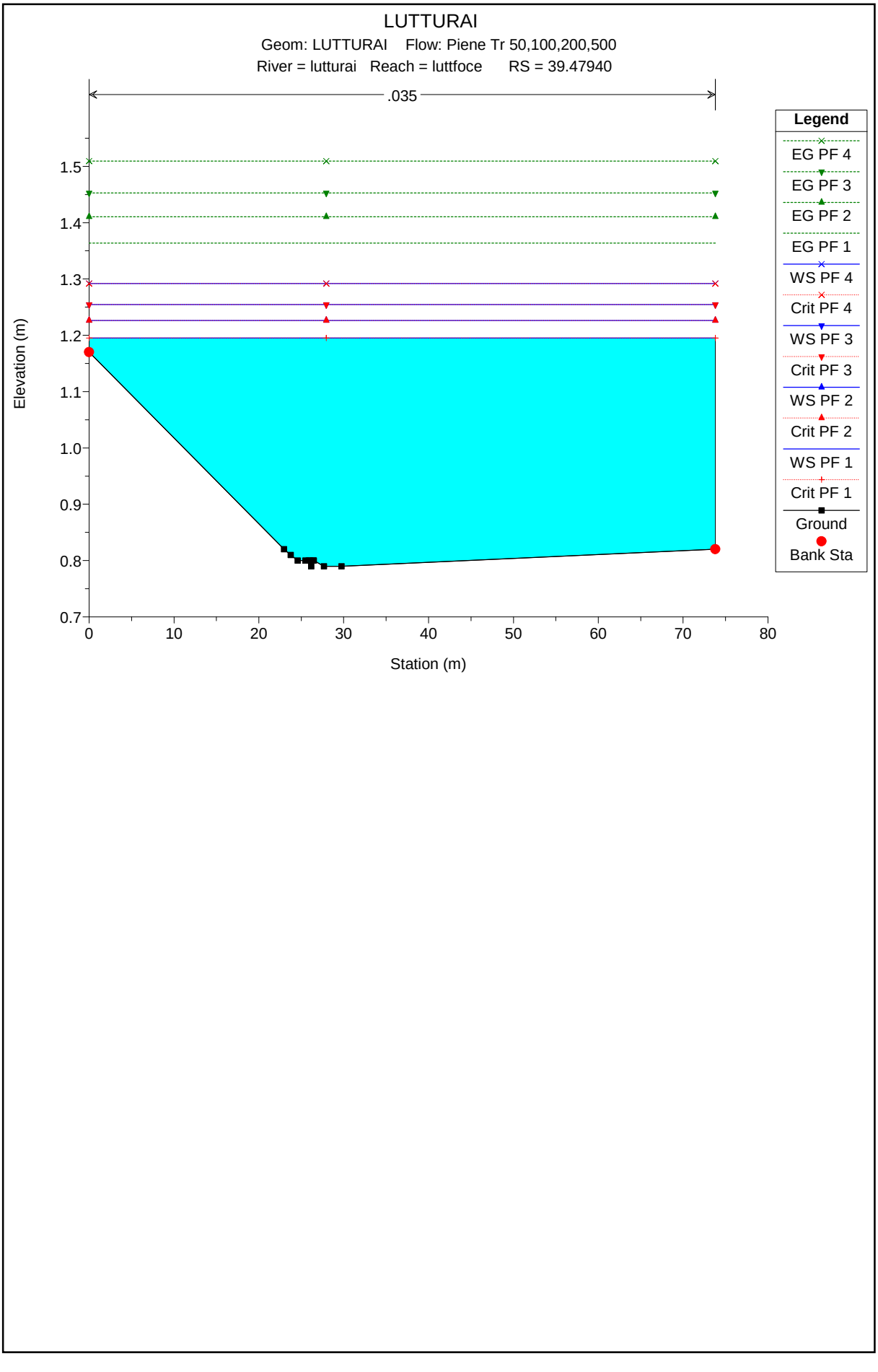

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 883.0920
.035
.035
.035
Elevation (m)
Station (m)
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
WS PF 4
WS PF 3
WS PF 2
Crit PF 1
WS PF 1
Ground
Bank Sta

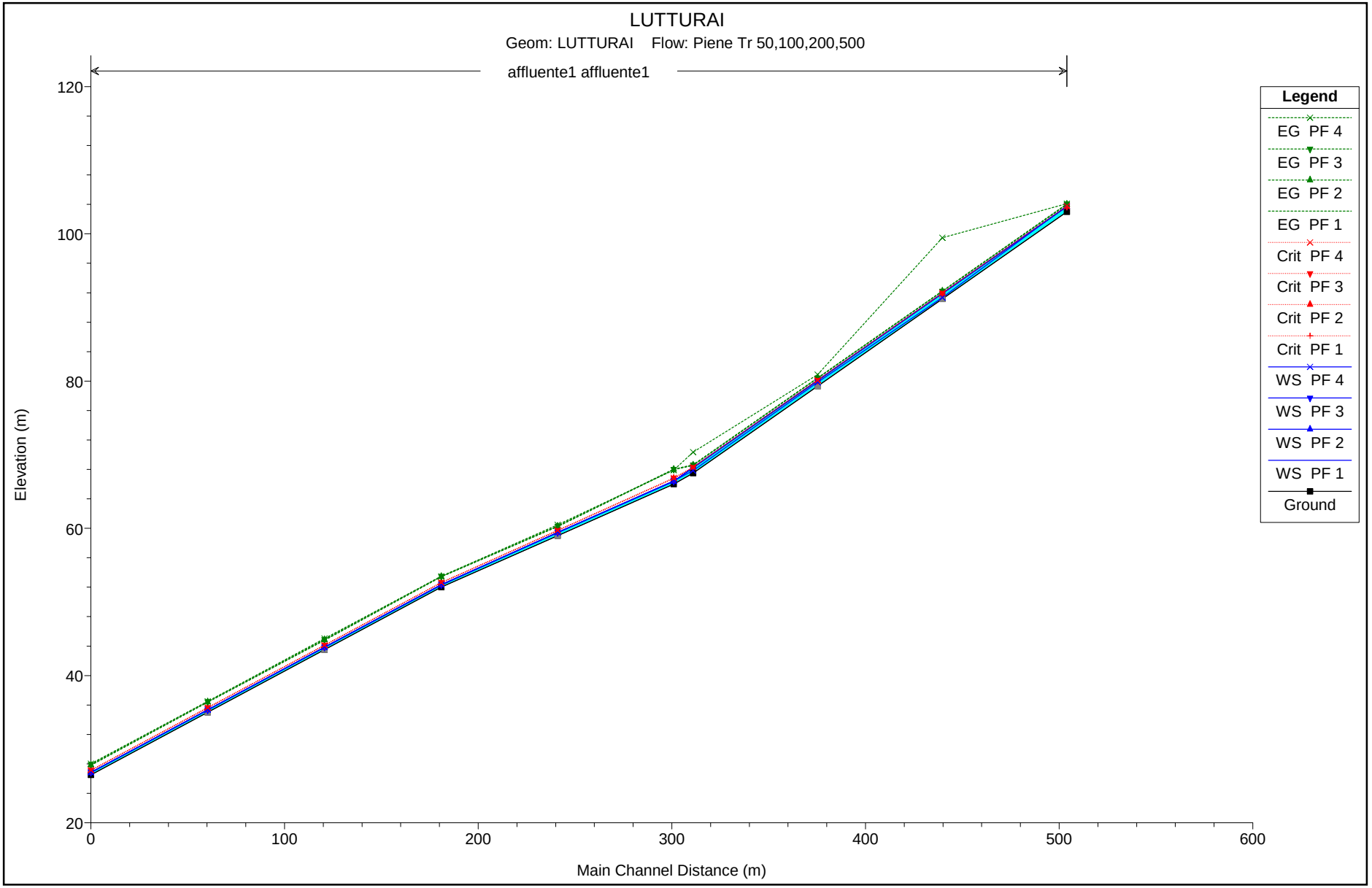

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = lutturai RS = 717.6107
.035
.035
Legend
EG PF 4
EG PF 3
WS PF 4
EG PF 2
WS PF 3
EG PF 1
WS PF 2
WS PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.2
4.0
3.8
3.6
3.4
3.2
3.0
0
20
40
60
80
100

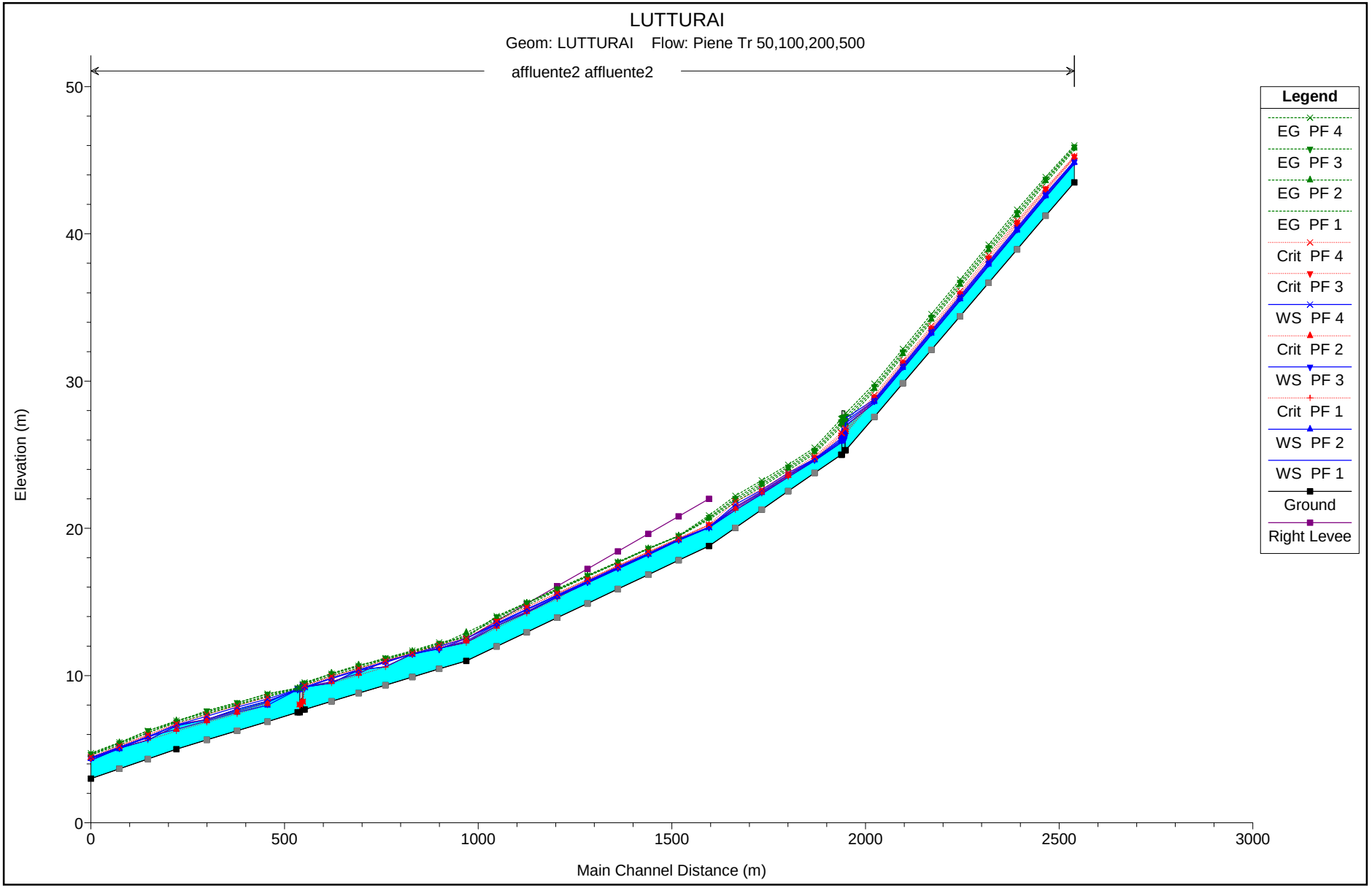

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = luttfoce RS = 531.9626
.035
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
0
50
100
150
200

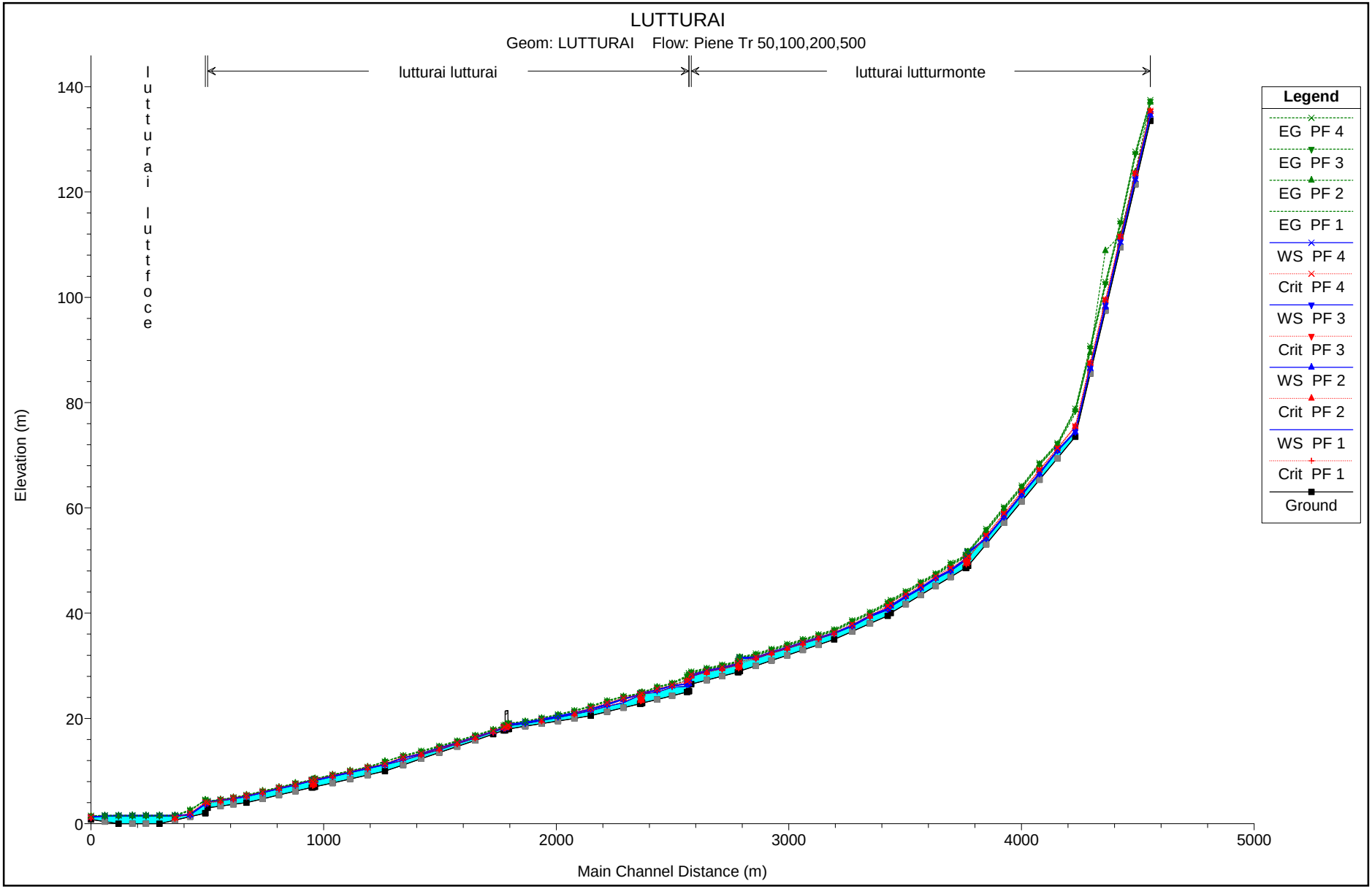

LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = luttfoce RS = 334.0360
.035
Elevation (m)
Station (m)
Legend
EG PF 4
WS PF 4
EG PF 3
WS PF 3
EG PF 2
WS PF 2
EG PF 1
WS PF 1
Ground
Bank Sta


LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = luttfoce RS = 158.7933
.035
Elevation (m)
Station (m)
Legend
EG PF 4
WS PF 4
EG PF 3
WS PF 3
EG PF 2
WS PF 2
EG PF 1
WS PF 1
Ground
Bank Sta


LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
River = lutturai Reach = luttfoce RS = 39.47940
.035
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
0
10
20
30
40
50
60
70
80


LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
affluente1 affluente1
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
Crit PF 2
Crit PF 1
WS PF 4
WS PF 3
WS PF 2
WS PF 1
Ground
Elevation (m)
120
100
80
60
40
20
0
100
200
300
400
500
600
Main Channel Distance (m)


LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
affluente2 affluente2
Elevation (m)
Main Channel Distance (m)
0
10
20
30
40
50
0
500
1000
1500
2000
2500
3000
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
Crit PF 4
Crit PF 3
WS PF 4
Crit PF 2
WS PF 3
Crit PF 1
WS PF 2
WS PF 1
Ground
Right Levee


LUTTURAI
Geom: LUTTURAI Flow: Piene Tr 50,100,200,500
lutturai lutturai
lutturai lutturmonte
lutturai lutturfoce
Elevation (m)
Main Channel Distance (m)
0
20
40
60
80
100
120
140
0
1000
2000
3000
4000
5000
Legend
EG PF 4
EG PF 3
EG PF 2
EG PF 1
WS PF 4
Crit PF 4
WS PF 3
Crit PF 3
WS PF 2
Crit PF 2
WS PF 1
Crit PF 1
Ground

HEC-RAS Plan: Plan 01

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
lutturai	lutturmonte	4829.453	PF 1	19.16	133.50	134.56	135.31	136.82	0.100135	6.66	2.88	3.42	2.32
lutturai	lutturmonte	4829.453	PF 2	21.36	133.50	134.63	135.35	137.03	0.100163	6.86	3.12	3.51	2.32
lutturai	lutturmonte	4829.453	PF 3	23.65	133.50	134.70	135.39	137.23	0.100190	7.05	3.36	3.60	2.33
lutturai	lutturmonte	4829.453	PF 4	26.56	133.50	134.78	135.44	137.47	0.100166	7.26	3.66	3.71	2.33
lutturai	lutturmonte	4506.434	PF 1	19.16	73.50	74.38	75.33	77.96	0.189015	8.38	2.29	3.18	3.16
lutturai	lutturmonte	4506.434	PF 2	21.36	73.50	74.40	75.40	78.63	0.218623	9.11	2.35	3.20	3.40
lutturai	lutturmonte	4506.434	PF 3	23.65	73.50	74.50	75.48	78.50	0.187626	8.86	2.67	3.33	3.16
lutturai	lutturmonte	4506.434	PF 4	26.56	73.50	74.57	75.57	78.82	0.187085	9.13	2.91	3.43	3.17
lutturai	lutturmonte	4044.486	PF 1	19.16	49.00	51.39	50.45	51.49	0.001676	1.52	14.09	10.38	0.34
lutturai	lutturmonte	4044.486	PF 2	21.36	49.00	51.45	50.55	51.57	0.001876	1.63	14.76	10.92	0.36
lutturai	lutturmonte	4044.486	PF 3	23.65	49.00	51.55	50.64	51.68	0.001952	1.70	15.87	11.76	0.37
lutturai	lutturmonte	4044.486	PF 4	26.56	49.00	51.64	50.75	51.78	0.002148	1.81	16.94	12.85	0.39
lutturai	lutturmonte	4040		Culvert									
lutturai	lutturmonte	4033.575	PF 1	19.16	48.60	50.02	50.02	50.60	0.016343	3.36	5.70	5.12	1.01
lutturai	lutturmonte	4033.575	PF 2	21.36	48.60	50.13	50.13	50.72	0.014964	3.42	6.29	5.83	0.98
lutturai	lutturmonte	4033.575	PF 3	23.65	48.60	50.24	50.24	50.85	0.013562	3.45	7.00	6.58	0.94
lutturai	lutturmonte	4033.575	PF 4	26.56	48.60	50.36	50.36	50.99	0.012796	3.54	7.80	7.33	0.93
lutturai	lutturmonte	3711.835	PF 1	19.16	40.00	41.22	41.43	42.08	0.028470	4.10	4.67	4.63	1.31
lutturai	lutturmonte	3711.835	PF 2	21.36	40.00	41.30	41.53	42.22	0.028456	4.23	5.05	4.74	1.31
lutturai	lutturmonte	3711.835	PF 3	23.65	40.00	41.39	41.72	42.35	0.028422	4.35	5.43	4.85	1.31
lutturai	lutturmonte	3711.835	PF 4	26.56	40.00	41.48	41.90	42.51	0.028371	4.49	5.92	4.98	1.31
lutturai	lutturmonte	3698.311	PF 1	19.16	39.50	40.64	40.93	41.65	0.035727	4.45	4.30	4.53	1.46
lutturai	lutturmonte	3698.311	PF 2	21.36	39.50	40.72	41.19	41.79	0.035432	4.58	4.67	4.63	1.46
lutturai	lutturmonte	3698.311	PF 3	23.65	39.50	40.80	41.28	41.92	0.035054	4.69	5.04	4.74	1.45
lutturai	lutturmonte	3698.311	PF 4	26.56	39.50	40.90	41.37	42.09	0.034721	4.83	5.50	4.86	1.45
lutturai	lutturmonte	3469.746	PF 1	19.16	35.00	36.13	36.08	36.57	0.013308	2.94	6.51	6.51	0.94
lutturai	lutturmonte	3469.746	PF 2	21.36	35.00	36.21	36.16	36.68	0.013333	3.05	7.01	6.61	0.94
lutturai	lutturmonte	3469.746	PF 3	23.65	35.00	36.19	36.24	36.79	0.016987	3.42	6.92	6.59	1.06
lutturai	lutturmonte	3469.746	PF 4	26.56	35.00	36.28	36.33	36.92	0.016825	3.53	7.52	6.71	1.06
lutturai	lutturmonte	3066.183	PF 1	19.16	29.00	31.40	30.43	31.47	0.001199	1.35	17.81	17.69	0.30
lutturai	lutturmonte	3066.183	PF 2	21.36	29.00	31.46	30.67	31.54	0.001279	1.42	18.94	18.20	0.31
lutturai	lutturmonte	3066.183	PF 3	23.65	29.00	31.51	30.78	31.60	0.001399	1.51	19.82	18.59	0.32
lutturai	lutturmonte	3066.183	PF 4	26.56	29.00	31.59	30.87	31.69	0.001453	1.57	21.41	19.27	0.33
lutturai	lutturmonte	3060		Culvert									
lutturai	lutturmonte	3056.489	PF 1	19.16	28.80	30.20	30.02	30.58	0.009843	2.73	7.04	10.45	0.80
lutturai	lutturmonte	3056.489	PF 2	21.36	28.80	30.30	30.11	30.68	0.009223	2.78	8.14	12.98	0.79
lutturai	lutturmonte	3056.489	PF 3	23.65	28.80	30.38	30.36	30.77	0.008581	2.80	9.32	13.84	0.77
lutturai	lutturmonte	3056.489	PF 4	26.56	28.80	30.46	30.46	30.86	0.008644	2.91	10.33	14.51	0.78
lutturai	lutturmonte	2856.445	PF 1	19.16	26.50	27.94	27.94	28.52	0.016503	3.37	5.68	4.91	1.00
lutturai	lutturmonte	2856.445	PF 2	21.36	26.50	28.03	28.03	28.64	0.016441	3.48	6.13	5.31	1.00
lutturai	lutturmonte	2856.445	PF 3	23.65	26.50	28.16	28.16	28.77	0.014058	3.46	6.97	6.94	0.95
lutturai	lutturmonte	2856.445	PF 4	26.56	26.50	28.34	28.34	28.90	0.011389	3.37	8.37	9.04	0.87
lutturai	lutturai	2787.366	PF 1	22.33	25.20	26.13	26.92	28.05	0.082080	6.13	3.64	4.83	2.26
lutturai	lutturai	2787.366	PF 2	33.58	25.20	26.55	27.16	28.24	0.049823	5.76	5.83	5.66	1.81
lutturai	lutturai	2787.366	PF 3	37.69	25.20	26.66	27.21	28.39	0.047086	5.83	6.47	5.88	1.77
lutturai	lutturai	2787.366	PF 4	43.21	25.20	26.78	27.27	28.55	0.043660	5.93	7.78	17.67	1.73
lutturai	lutturai	2779.521	PF 1	22.33	25.00	26.09	26.72	27.37	0.046840	5.02	4.45	5.18	1.73
lutturai	lutturai	2779.521	PF 2	33.58	25.00	26.48	26.94	27.79	0.035392	5.09	6.60	5.95	1.54
lutturai	lutturai	2779.521	PF 3	37.69	25.00	26.55	27.01	27.96	0.035284	5.28	7.52	15.89	1.55
lutturai	lutturai	2779.521	PF 4	43.21	25.00	26.62	27.09	28.16	0.036653	5.59	8.73	19.96	1.60
lutturai	lutturai	2586.544	PF 1	22.33	22.90	24.68	24.51	24.74	0.001694	1.36	27.34	66.09	0.35
lutturai	lutturai	2586.544	PF 2	33.58	22.90	24.79	24.63	24.87	0.002197	1.62	34.85	73.34	0.40
lutturai	lutturai	2586.544	PF 3	37.69	22.90	24.82	24.66	24.91	0.002348	1.70	37.35	75.59	0.42
lutturai	lutturai	2586.544	PF 4	43.21	22.90	24.86	24.71	24.96	0.002542	1.80	40.49	78.34	0.44
lutturai	lutturai	2580		Culvert									
lutturai	lutturai	2577.819	PF 1	22.33	22.80	24.42	24.42	24.56	0.004438	2.00	18.70	62.68	0.55
lutturai	lutturai	2577.819	PF 2	33.58	22.80	24.52	24.52	24.68	0.005102	2.26	25.45	68.10	0.59
lutturai	lutturai	2577.819	PF 3	37.69	22.80	24.55	24.55	24.72	0.005375	2.35	27.46	69.72	0.61
lutturai	lutturai	2577.819	PF 4	43.21	22.80	24.58	24.58	24.76	0.005923	2.49	29.55	71.36	0.64
lutturai	lutturai	2365.317	PF 1	22.33	20.50	21.44	21.39	21.81	0.012076	2.69	8.30	9.57	0.92
lutturai	lutturai	2365.317	PF 2	33.58	20.50	21.68	21.66	22.19	0.013188	3.18	10.56	9.96	0.99
lutturai	lutturai	2365.317	PF 3	37.69	20.50	21.76	21.97	22.29	0.012459	3.25	12.94	50.19	0.97
lutturai	lutturai	2365.317	PF 4	43.21	20.50	21.81	22.01	22.39	0.013388	3.46	15.80	70.79	1.01
lutturai	lutturai	2013.793	PF 1	22.33	18.00	18.62	18.41	18.71	0.004128	1.33	16.73	30.83	0.54
lutturai	lutturai	2013.793	PF 2	33.58	18.00	18.80	18.54	18.92	0.004020	1.56	21.55	31.06	0.56
lutturai	lutturai	2013.793	PF 3	37.69	18.00	18.86	18.58	18.99	0.003984	1.63	23.15	31.14	0.56
lutturai	lutturai	2013.793	PF 4	43.21	18.00	18.93	18.64	19.08	0.003931	1.71	25.23	31.25	0.57
lutturai	lutturai	2000		Bridge									
lutturai	lutturai	1991.920	PF 1	22.33	17.70	18.11	18.11	18.32	0.016322	2.02	11.08	30.55	1.00
lutturai	lutturai	1991.920	PF 2	33.58	17.70	18.24	18.24	18.51	0.014831	2.31	14.56	30.72	1.00
lutturai	lutturai	1991.920	PF 3	37.69	17.70	18.28	18.28	18.58	0.014328	2.39	15.77	30.78	1.00

HEC-RAS Plan: Plan 01 (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
lutturai	lutturai	1991.920	PF 4	43.21	17.70	18.34	18.34	18.66	0.014029	2.51	17.23	30.85	1.00
lutturai	lutturai	1945	PF 1	22.33	17.00	17.42	17.38	17.58	0.012589	1.76	12.66	30.56	0.87
lutturai	lutturai	1945	PF 2	33.58	17.00	17.47	17.50	17.75	0.019296	2.36	14.25	30.63	1.10
lutturai	lutturai	1945	PF 3	37.69	17.00	17.50	17.54	17.82	0.020072	2.50	15.10	30.66	1.14
lutturai	lutturai	1945	PF 4	43.21	17.00	17.54	17.59	17.90	0.020700	2.66	16.26	30.71	1.17
lutturai	lutturai	1479.448	PF 1	22.33	10.00	11.20	11.29	11.48	0.010058	2.68	15.11	90.17	0.84
lutturai	lutturai	1479.448	PF 2	33.58	10.00	11.20	11.36	11.81	0.022056	3.98	15.38	90.41	1.25
lutturai	lutturai	1479.448	PF 3	37.69	10.00	11.22	11.37	11.82	0.022637	4.09	17.23	92.00	1.27
lutturai	lutturai	1479.448	PF 4	43.21	10.00	11.25	11.40	11.83	0.022629	4.16	19.80	94.18	1.28
lutturai	lutturai	1178.443	PF 1	22.33	7.00	8.17	8.27	8.43	0.010028	2.64	14.89	77.26	0.84
lutturai	lutturai	1178.443	PF 2	33.58	7.00	8.26	8.35	8.51	0.010405	2.84	22.89	103.56	0.87
lutturai	lutturai	1178.443	PF 3	37.69	7.00	8.29	8.37	8.53	0.010539	2.90	25.60	111.67	0.88
lutturai	lutturai	1178.443	PF 4	43.21	7.00	8.32	8.40	8.56	0.010864	3.00	28.83	119.29	0.89
lutturai	lutturai	1170		Culvert									
lutturai	lutturai	1164.172	PF 1	22.33	6.90	8.15	8.15	8.23	0.004538	1.79	25.97	124.73	0.56
lutturai	lutturai	1164.172	PF 2	33.58	6.90	8.21	8.21	8.30	0.005679	2.08	33.33	134.49	0.63
lutturai	lutturai	1164.172	PF 3	37.69	6.90	8.23	8.23	8.33	0.005970	2.16	35.88	137.77	0.65
lutturai	lutturai	1164.172	PF 4	43.21	6.90	8.25	8.25	8.36	0.006299	2.25	39.18	141.92	0.67
lutturai	lutturai	883.0920	PF 1	22.33	4.00	5.13	5.20	5.37	0.010333	2.60	16.23	95.31	0.85
lutturai	lutturai	883.0920	PF 2	33.58	4.00	5.21	5.28	5.42	0.009832	2.68	24.65	107.61	0.84
lutturai	lutturai	883.0920	PF 3	37.69	4.00	5.24	5.30	5.44	0.009704	2.71	27.41	111.35	0.83
lutturai	lutturai	883.0920	PF 4	43.21	4.00	5.27	5.31	5.46	0.009571	2.74	30.95	115.96	0.83
lutturai	lutturai	717.6107	PF 1	22.33	3.00	4.14	3.87	4.17	0.001392	0.80	35.64	92.80	0.31
lutturai	lutturai	717.6107	PF 2	33.58	3.00	4.17	3.97	4.22	0.002678	1.13	37.95	95.86	0.44
lutturai	lutturai	717.6107	PF 3	37.69	3.00	4.20	3.99	4.25	0.002712	1.17	41.30	100.00	0.44
lutturai	lutturai	717.6107	PF 4	43.21	3.00	4.25	4.03	4.30	0.002618	1.20	45.85	100.00	0.44
lutturai	luttfoce	531.9626	PF 1	44.50	2.00	3.70	3.95	4.42	0.014652	3.93	15.31	55.85	1.03
lutturai	luttfoce	531.9626	PF 2	50.93	2.00	3.77	4.00	4.45	0.013980	3.95	19.77	72.97	1.01
lutturai	luttfoce	531.9626	PF 3	56.95	2.00	3.80	4.03	4.50	0.014619	4.10	22.41	79.43	1.04
lutturai	luttfoce	531.9626	PF 4	65.31	2.00	3.85	4.08	4.55	0.015102	4.25	26.19	87.86	1.06
lutturai	luttfoce	334.0360	PF 1	44.50	0.00	1.44		1.45	0.000076	0.23	191.29	212.58	0.08
lutturai	luttfoce	334.0360	PF 2	50.93	0.00	1.50		1.50	0.000086	0.25	202.67	219.04	0.08
lutturai	luttfoce	334.0360	PF 3	56.95	0.00	1.54		1.55	0.000094	0.27	213.16	224.83	0.09
lutturai	luttfoce	334.0360	PF 4	65.31	0.00	1.61		1.61	0.000104	0.29	227.48	232.51	0.09
lutturai	luttfoce	158.7933	PF 1	44.50	0.00	1.43		1.44	0.000043	0.20	226.67	210.05	0.06
lutturai	luttfoce	158.7933	PF 2	50.93	0.00	1.49		1.49	0.000049	0.21	237.54	212.34	0.06
lutturai	luttfoce	158.7933	PF 3	56.95	0.00	1.53		1.53	0.000054	0.23	247.40	214.40	0.07
lutturai	luttfoce	158.7933	PF 4	65.31	0.00	1.59		1.60	0.000060	0.25	260.62	217.13	0.07
lutturai	luttfoce	39.47940	PF 1	44.50	0.79	1.19	1.19	1.36	0.017793	1.82	24.47	73.80	1.01
lutturai	luttfoce	39.47940	PF 2	50.93	0.79	1.23	1.23	1.41	0.017276	1.90	26.77	73.80	1.01
lutturai	luttfoce	39.47940	PF 3	56.95	0.79	1.25	1.25	1.45	0.016800	1.97	28.88	73.80	1.01
lutturai	luttfoce	39.47940	PF 4	65.31	0.79	1.29	1.29	1.51	0.016369	2.07	31.61	73.80	1.01
affluente2	affluente2	2625.016	PF 1	19.16	43.50	44.77	45.15	45.71	0.030028	4.42	4.98	10.76	1.40
affluente2	affluente2	2625.016	PF 2	21.93	43.50	44.83	45.19	45.82	0.030053	4.60	5.70	12.34	1.41
affluente2	affluente2	2625.016	PF 3	24.61	43.50	44.88	45.23	45.91	0.030027	4.75	6.40	13.70	1.42
affluente2	affluente2	2625.016	PF 4	28.21	43.50	44.95	45.28	46.01	0.030036	4.93	7.32	15.30	1.44
affluente2	affluente2	2034.138	PF 1	19.16	25.30	26.98	26.44	27.24	0.003204	2.28	8.39	6.53	0.56
affluente2	affluente2	2034.138	PF 2	21.93	25.30	27.14	26.55	27.43	0.003109	2.39	9.18	6.67	0.56
affluente2	affluente2	2034.138	PF 3	24.61	25.30	27.28	26.65	27.60	0.003030	2.48	9.91	6.80	0.56
affluente2	affluente2	2034.138	PF 4	28.21	25.30	27.47	26.78	27.82	0.002940	2.60	10.86	6.97	0.56
affluente2	affluente2	2030		Culvert									
affluente2	affluente2	2022.378	PF 1	19.16	25.00	25.83	26.14	26.92	0.033452	4.62	4.15	9.11	1.62
affluente2	affluente2	2022.378	PF 2	21.93	25.00	25.92	26.25	27.08	0.031250	4.77	4.59	9.23	1.59
affluente2	affluente2	2022.378	PF 3	24.61	25.00	26.00	26.35	27.23	0.029496	4.91	5.01	9.34	1.57
affluente2	affluente2	2022.378	PF 4	28.21	25.00	26.11	26.48	27.42	0.027376	5.07	5.56	9.48	1.54
affluente2	affluente2	1681.242	PF 1	19.16	18.80	20.05	20.20	20.59	0.018767	3.44	8.56	78.02	1.09
affluente2	affluente2	1681.242	PF 2	21.93	18.80	20.06	20.22	20.68	0.021736	3.73	9.54	78.16	1.18
affluente2	affluente2	1681.242	PF 3	24.61	18.80	20.07	20.23	20.75	0.024307	3.98	10.45	78.28	1.25
affluente2	affluente2	1681.242	PF 4	28.21	18.80	20.08	20.26	20.87	0.028911	4.36	11.20	78.38	1.36
affluente2	affluente2	1054.786	PF 1	19.16	11.00	12.24	12.24	12.76	0.015319	3.19	6.00	5.66	0.99
affluente2	affluente2	1054.786	PF 2	21.93	11.00	12.34	12.34	12.91	0.015499	3.34	6.57	5.79	1.00
affluente2	affluente2	1054.786	PF 3	24.61	11.00	12.52	12.52	12.59	0.003087	1.59	34.89	200.72	0.45
affluente2	affluente2	1054.786	PF 4	28.21	11.00	12.54	12.54	12.61	0.003331	1.66	38.19	201.60	0.47
affluente2	affluente2	637.7726	PF 1	19.16	7.70	9.21	9.26	9.36	0.004424	1.94	17.83	103.64	0.55
affluente2	affluente2	637.7726	PF 2	21.93	7.70	9.21	9.28	9.41	0.005890	2.24	17.63	103.32	0.63
affluente2	affluente2	637.7726	PF 3	24.61	7.70	9.19	9.30	9.51	0.008970	2.73	15.37	99.58	0.78
affluente2	affluente2	637.7726	PF 4	28.21	7.70	9.22	9.32	9.53	0.009221	2.81	18.30	104.40	0.79
affluente2	affluente2	630		Culvert									
affluente2	affluente2	619.3700	PF 1	19.16	7.50	9.02		9.10	0.002277	1.45	27.50	170.63	0.40
affluente2	affluente2	619.3700	PF 2	21.93	7.50	9.04		9.12	0.002458	1.52	30.64	172.05	0.42
affluente2	affluente2	619.3700	PF 3	24.61	7.50	9.08		9.14	0.002058	1.42	37.51	175.13	0.39

HEC-RAS Plan: Plan 01 (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
affluente2	affluente2	619.3700	PF 4	28.21	7.50	9.07		9.16	0.002841	1.66	36.66	174.75	0.45
affluente2	affluente2	306.3873	PF 1	19.16	5.00	6.59	6.23	6.80	0.005165	2.13	13.33	71.20	0.59
affluente2	affluente2	306.3873	PF 2	21.93	5.00	6.34	6.34	6.91	0.015613	3.35	6.55	5.79	1.00
affluente2	affluente2	306.3873	PF 3	24.61	5.00	6.67	6.70	6.85	0.004977	2.17	19.38	81.17	0.58
affluente2	affluente2	306.3873	PF 4	28.21	5.00	6.64	6.73	6.94	0.007684	2.67	17.53	78.26	0.72
affluente2	affluente2	85.58630	PF 1	19.16	3.00	4.24	4.35	4.60	0.012405	2.94	8.89	25.46	0.92
affluente2	affluente2	85.58630	PF 2	21.93	3.00	4.35	4.40	4.61	0.008610	2.62	12.00	29.96	0.78
affluente2	affluente2	85.58630	PF 3	24.61	3.00	4.36	4.44	4.67	0.010283	2.88	12.30	30.35	0.86
affluente2	affluente2	85.58630	PF 4	28.21	3.00	4.42	4.49	4.72	0.009573	2.89	14.34	32.94	0.83
affluente1	affluente1	493.5664	PF 1	4.53	103.00	103.71	103.71	103.99	0.018269	2.36	1.92	3.42	1.01
affluente1	affluente1	493.5664	PF 2	4.74	103.00	103.73	103.73	104.02	0.018176	2.39	1.98	3.45	1.01
affluente1	affluente1	493.5664	PF 3	5.10	103.00	103.76	103.76	104.06	0.018045	2.43	2.10	3.52	1.01
affluente1	affluente1	493.5664	PF 4	5.46	103.00	103.79	103.79	104.10	0.017926	2.48	2.21	3.58	1.01
affluente1	affluente1	354.1976	PF 1	4.53	67.50	68.24	68.24	68.55	0.019435	2.47	1.84	2.98	1.00
affluente1	affluente1	354.1976	PF 2	4.74	67.50	68.26	68.26	68.58	0.019470	2.50	1.90	3.01	1.01
affluente1	affluente1	354.1976	PF 3	5.10	67.50	68.29	68.29	68.62	0.019391	2.55	2.00	3.06	1.01
affluente1	affluente1	354.1976	PF 4	5.46	67.50	67.85	68.33	70.35	0.336651	7.00	0.78	2.47	3.98
affluente1	affluente1	344.5007	PF 1	4.53	66.00	66.37	66.75	67.97	0.203364	5.60	0.81	2.37	3.06
affluente1	affluente1	344.5007	PF 2	4.74	66.00	66.38	66.77	68.00	0.197847	5.63	0.84	2.38	3.02
affluente1	affluente1	344.5007	PF 3	5.10	66.00	66.41	66.81	68.05	0.189117	5.67	0.90	2.41	2.96
affluente1	affluente1	344.5007	PF 4	5.46	66.00	66.46	66.84	67.90	0.146706	5.32	1.03	2.46	2.63
affluente1	affluente1	224.9366	PF 1	4.53	52.00	52.30	52.59	53.40	0.158503	4.65	0.97	3.41	2.77
affluente1	affluente1	224.9366	PF 2	4.74	52.00	52.31	52.60	53.44	0.155669	4.69	1.01	3.42	2.76
affluente1	affluente1	224.9366	PF 3	5.10	52.00	52.33	52.63	53.49	0.151248	4.77	1.07	3.44	2.73
affluente1	affluente1	224.9366	PF 4	5.46	52.00	52.36	52.66	53.48	0.133179	4.69	1.16	3.48	2.59
affluente1	affluente1	43.25397	PF 1	4.53	26.50	26.82	27.09	27.80	0.132822	4.39	1.03	3.43	2.55
affluente1	affluente1	43.25397	PF 2	4.74	26.50	26.83	27.10	27.85	0.134133	4.47	1.06	3.44	2.57
affluente1	affluente1	43.25397	PF 3	5.10	26.50	26.84	27.13	27.93	0.136174	4.61	1.11	3.46	2.60
affluente1	affluente1	43.25397	PF 4	5.46	26.50	26.85	27.16	28.03	0.144260	4.81	1.13	3.47	2.68