AUTORITA' DI BACINO DEL FIUME PO

REGIONE LIGURIA

PROVINCIA DI GENOVA

VARIANTE PTC VBP BACINI PADANI

Accordo di Pianificazione ai sensi dell' art. 57 della L.R. 36/1997
tra Autorità di bacino del fiume Po Regione Liguria e Provincia di Genova

V1 – Verifiche idrauliche per l'individuazione delle aree inondabili e delle fasce fluviali (SCRIVIA)

Allegato tecnico alle Norme di attuazione

PROGETTO **Codice : 1.2 / 17 / 04**	VARIANTE AL PIANO TERRITORIALE DI COORDINAMENTO DELLA PROVINCIA DI GENOVA CON VALORE ED EFFETTI DEL PIANO DI BACINO PER LA PARTE DEL TERRITORIO PROVINCIALE COMPRESA NEL BACINO DEL FIUME PO

N. / Titolo elaborato :	**V1 - VERIFICHE IDRAULICHE – Scrivia**
Nome file :	**V1a_VerificheIdrauliche_Scrivia.pdf**

REV	DATA	REDATTO	VERIFICATO	APPROVATO
	06/2010	Ufficio Progettazione Territoriale Ufficio Pianificazione di Bacino e Protezione Civile	Il Dirigente del Servizio Pianificazione generale Arch. Andrea Pasetti	Il Direttore Dott. Geol. Mauro Lombardi

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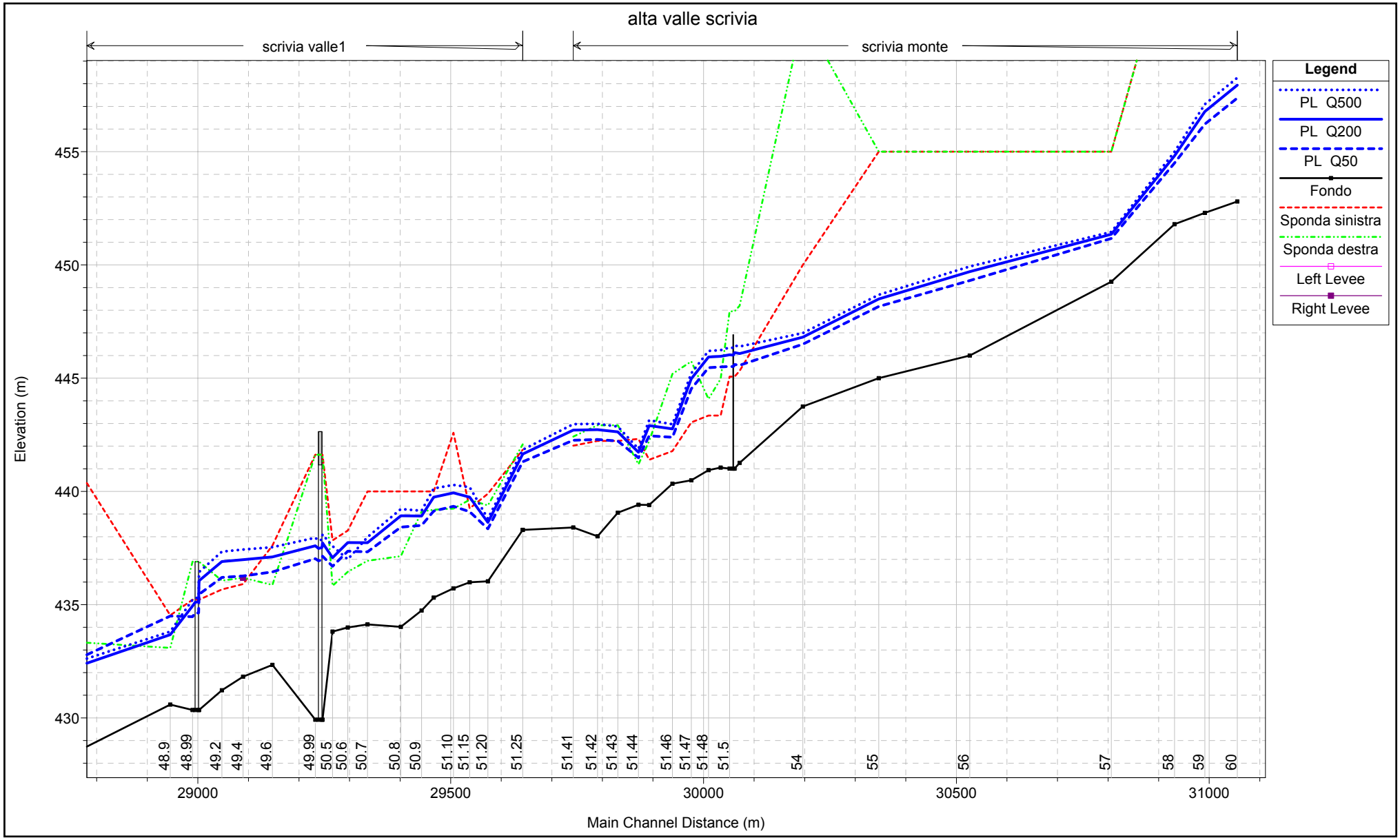
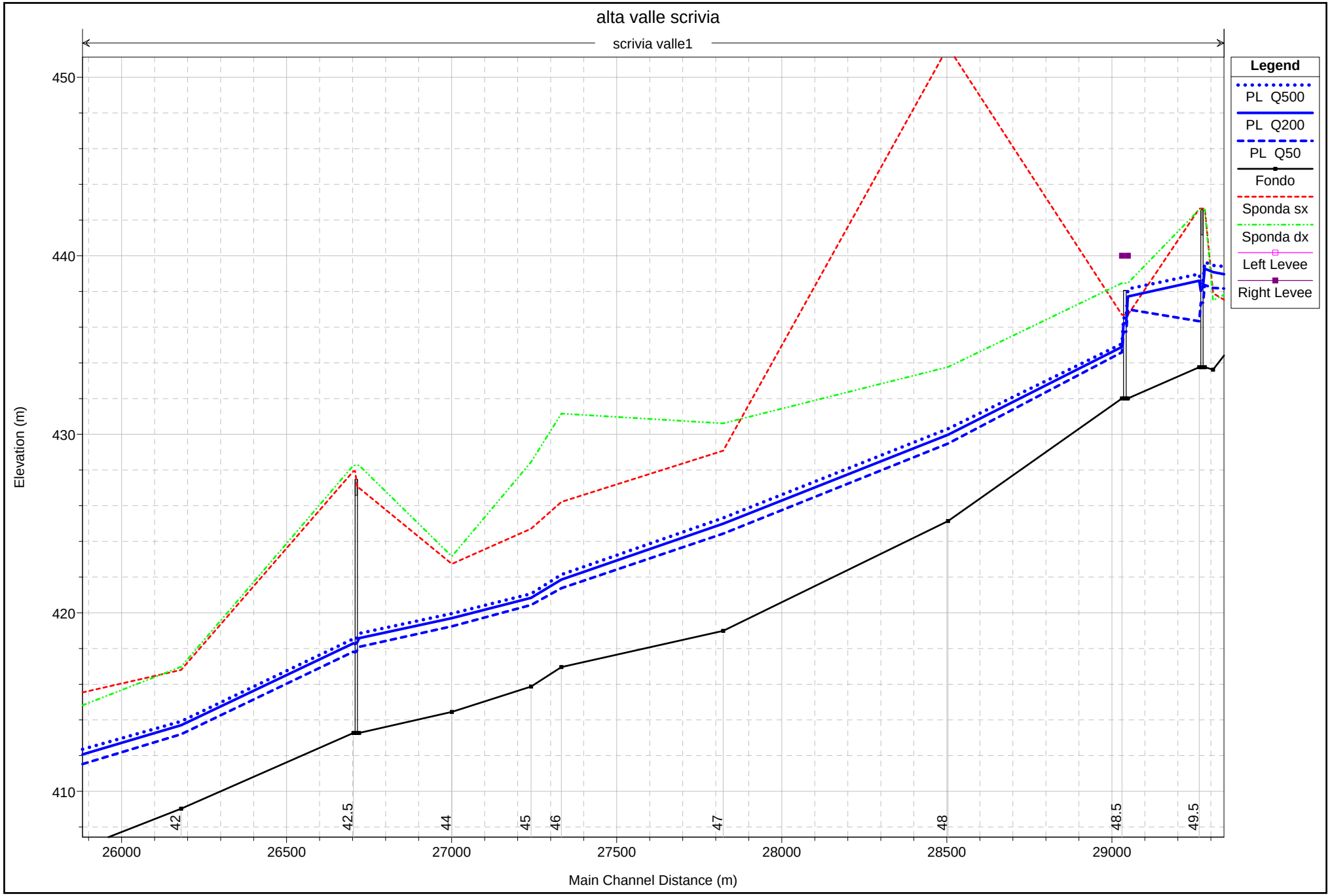
1. Torrente Scrivia
2. Torrente Pentemina
3. Rio delle Cogne
4. Rio Carpi
5. Rio Laitona
6.1 Torrente Brevenna (monte)
6.2 Torrente Brevenna (confluenza)
7. Rio Santo Stefano
8. Rio Orero
9. Rio Camiasca
10. Torrente Seminella
11. Torrente Migliarese
12. Rio Lupo
13. Torrente Busalletta
14. Rio Malopasso
15.1 Torrente Vobbia (loc. Vobbia)
15.2 Torrente Vobbia (loc. Vobbietta)
15.3 Torrente Vobbia (loc. Tuscia)
16. Verifiche puntuali

Torrente Scrivia

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


alta valle scrivia
scrivia valle1
scrivia monte
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sinistra
Sponda destra
Left Levee
Right Levee
Elevation (m)
455
450
445
440
435
430
48.9
48.99
49.2
49.4
49.6
49.99
50.5
50.6
50.7
50.8
50.9
51.10
51.15
51.20
51.25
51.41
51.42
51.43
51.44
51.46
51.47
51.48
51.5
54
55
56
57
58
59
60
29000
29500
30000
30500
31000
Main Channel Distance (m)



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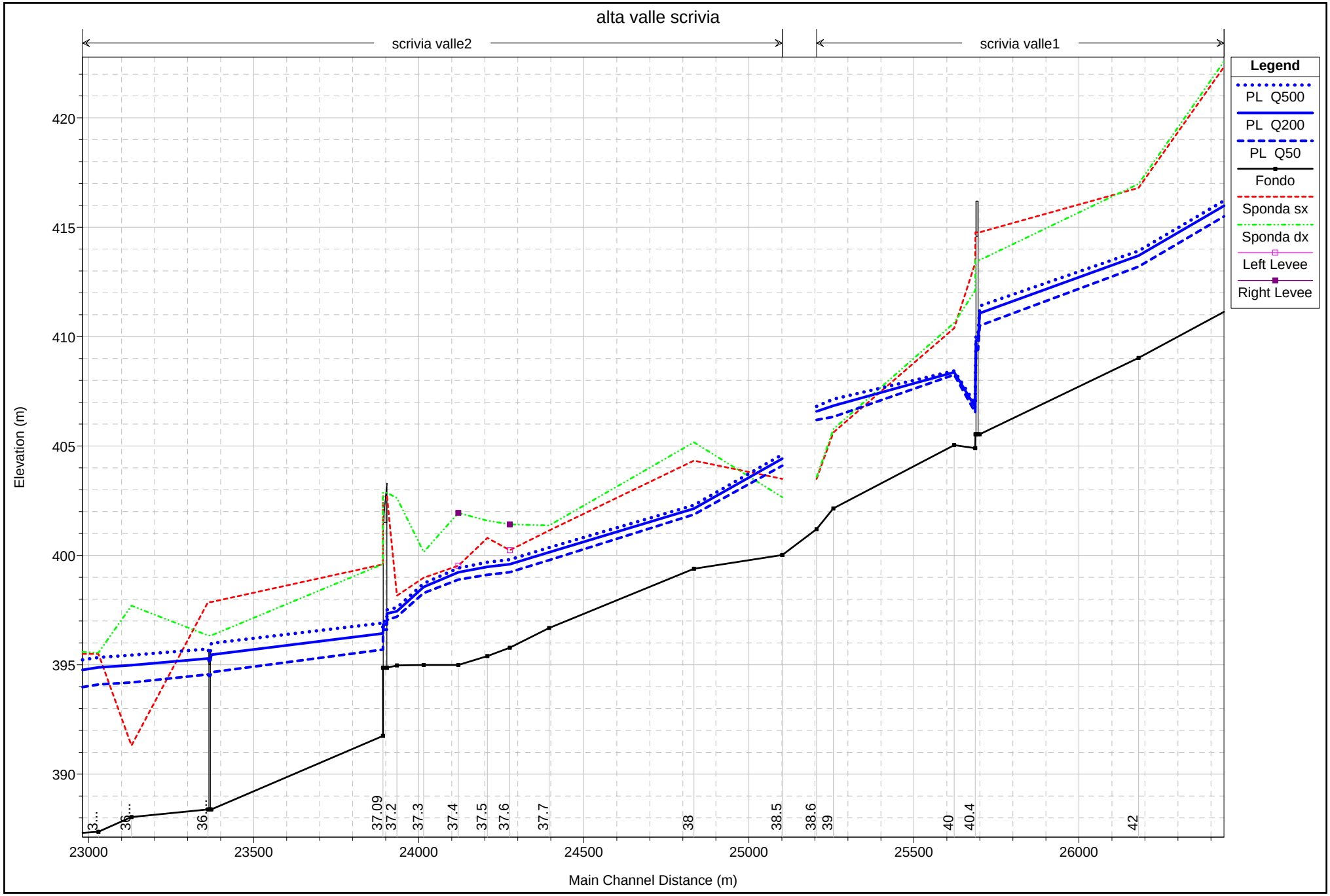
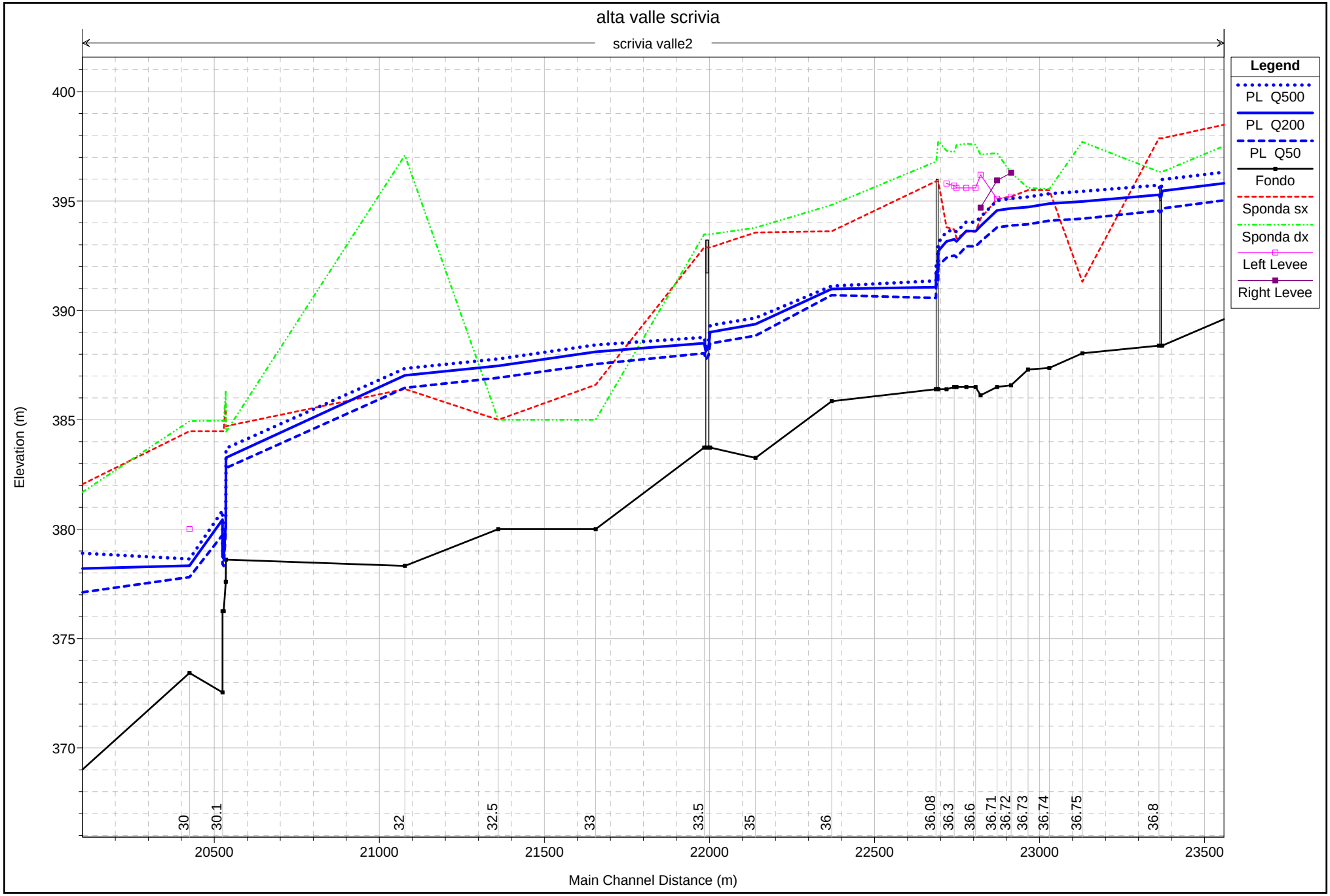


1 cm Horiz. = 150 m 1 cm Vert. = 2.261871 m



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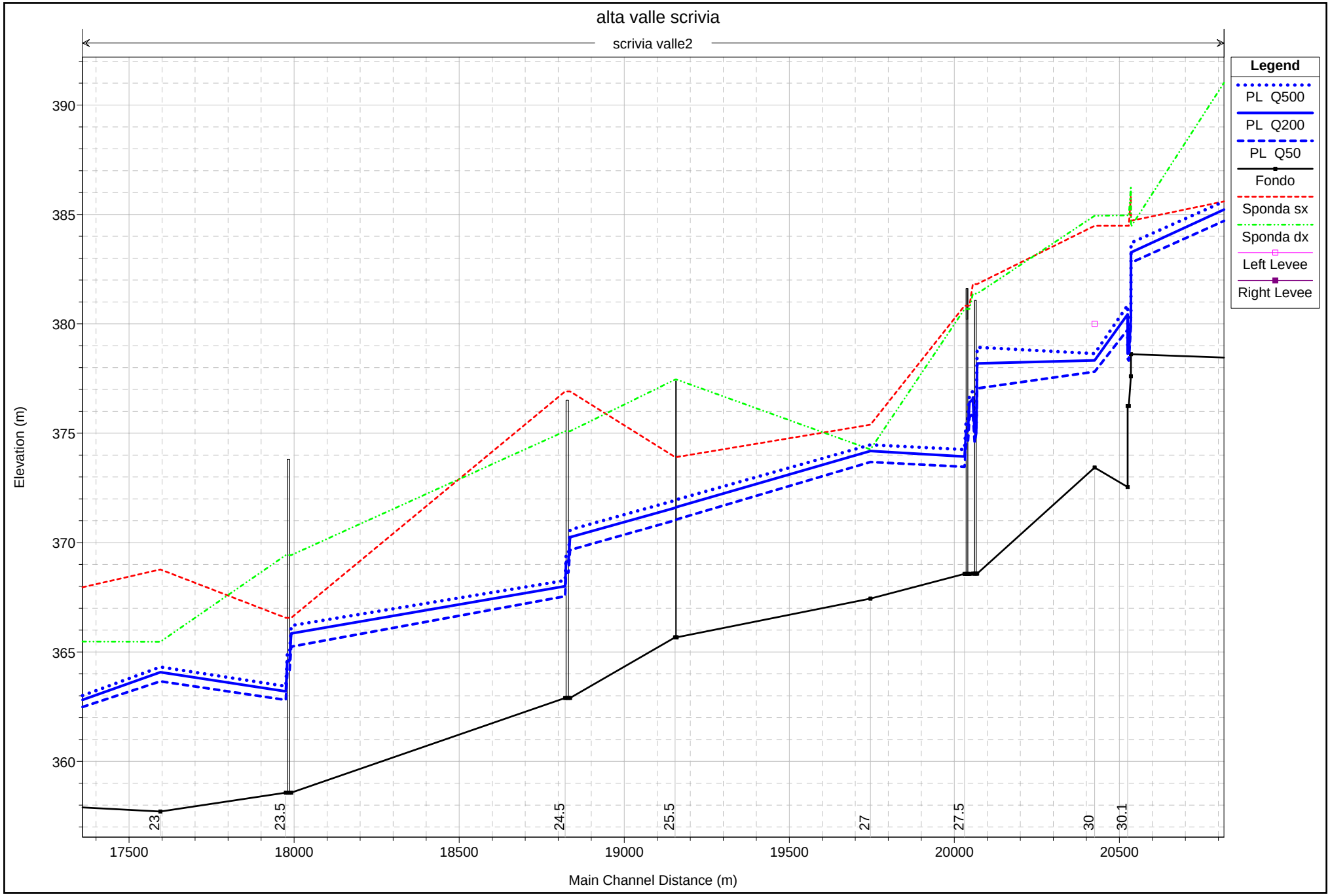
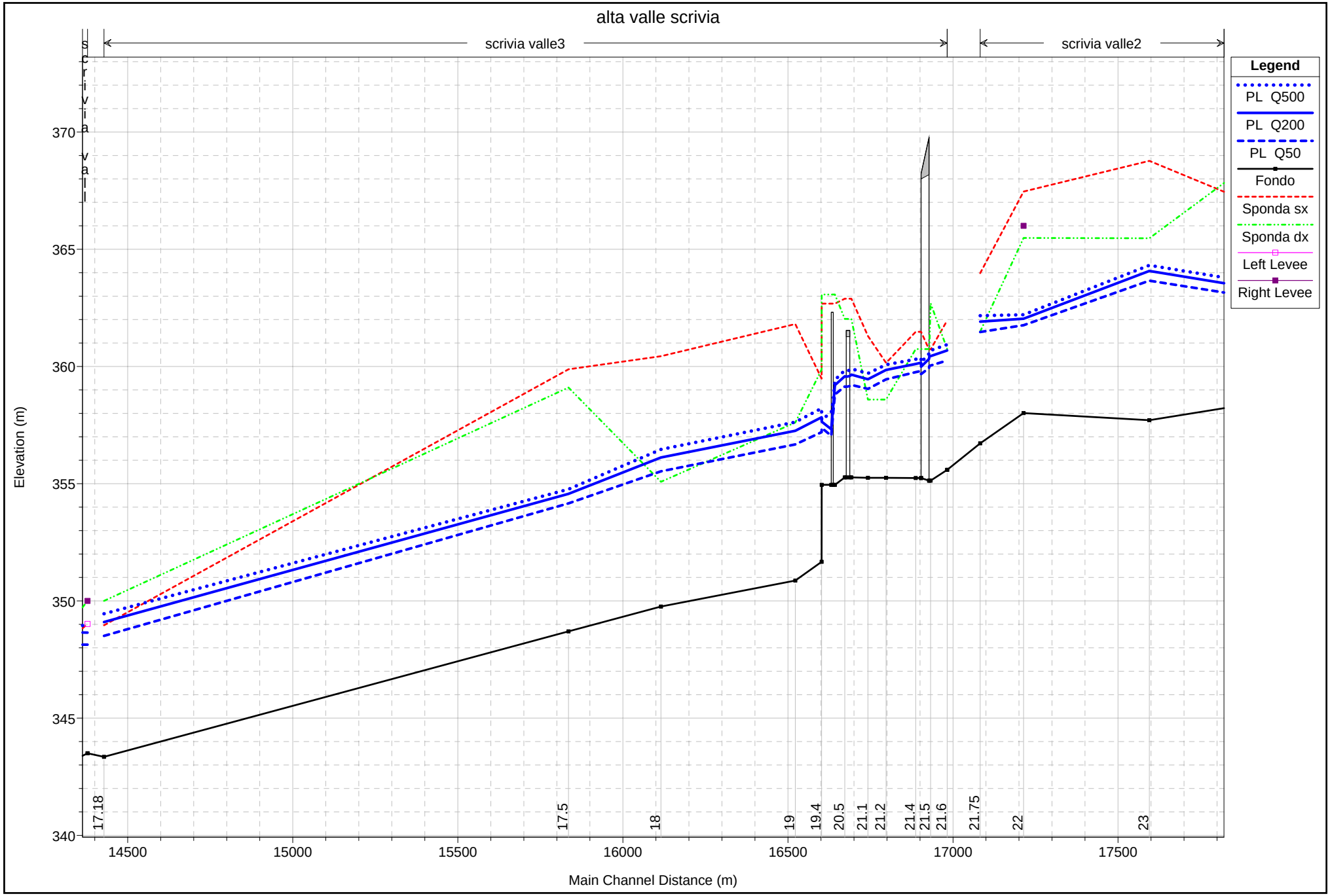


1 cm Horiz. = 150 m 1 cm Vert. = 2.261871 m



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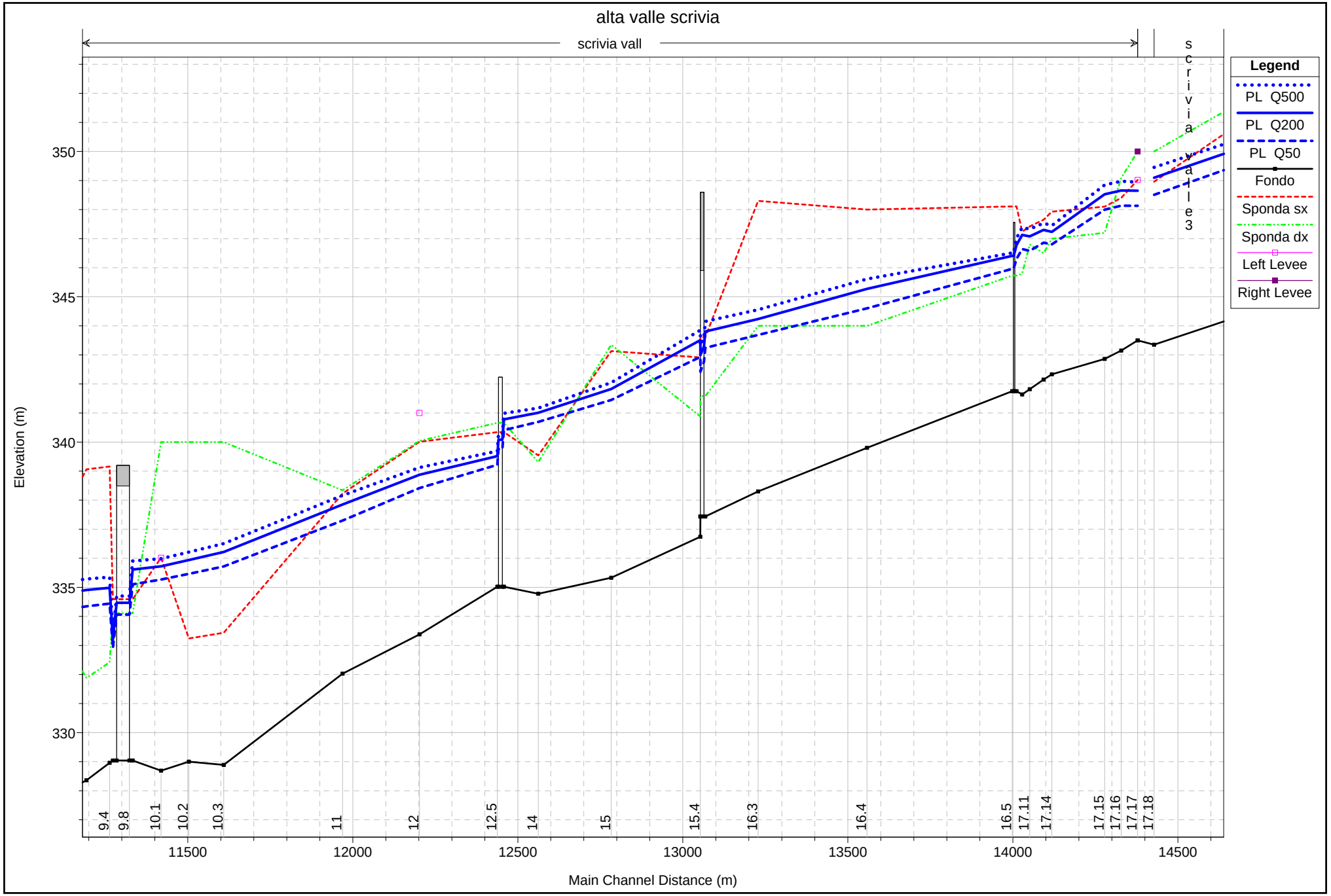

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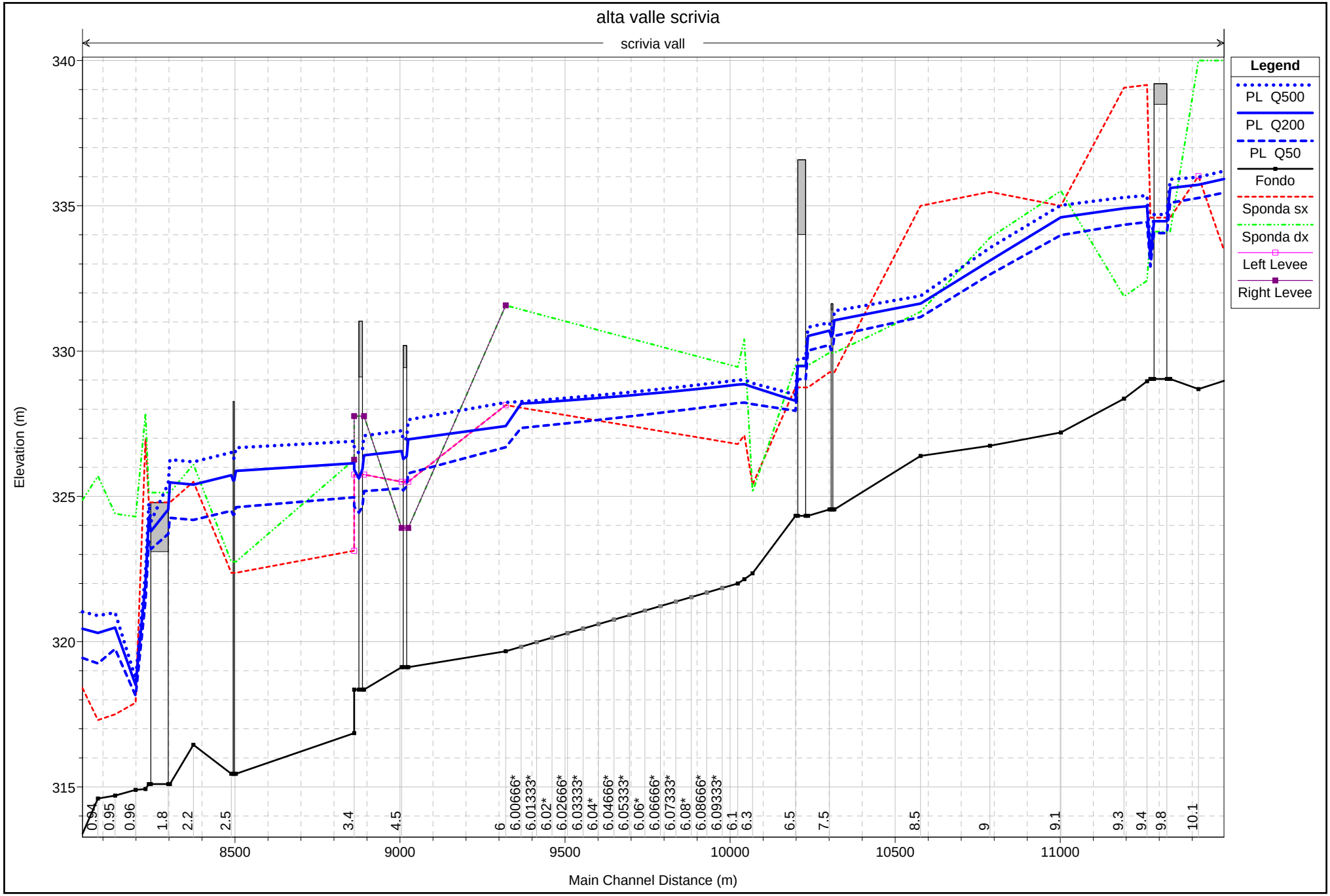
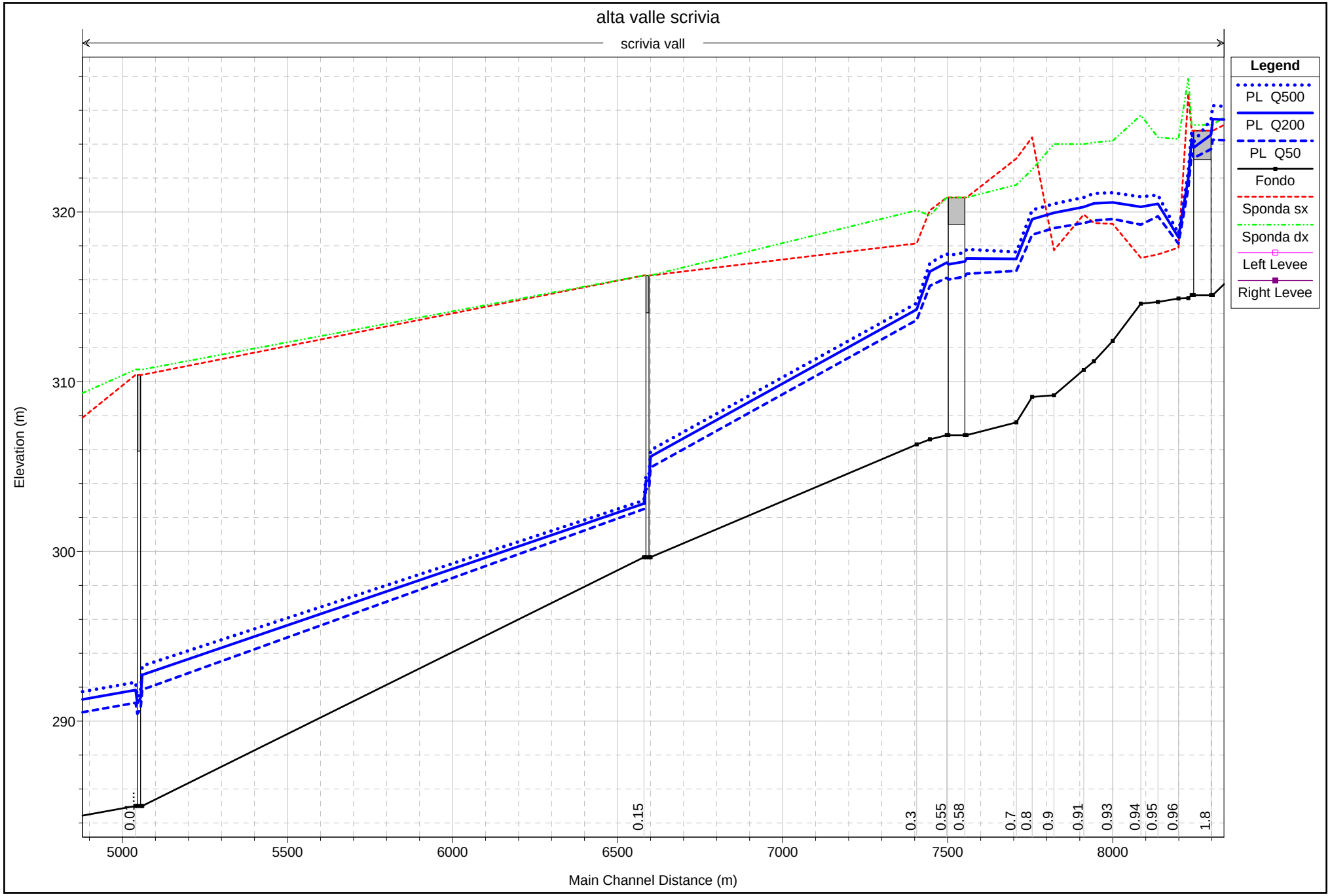


1 cm Horiz. = 150 m 1 cm Vert. = 1.702932 m



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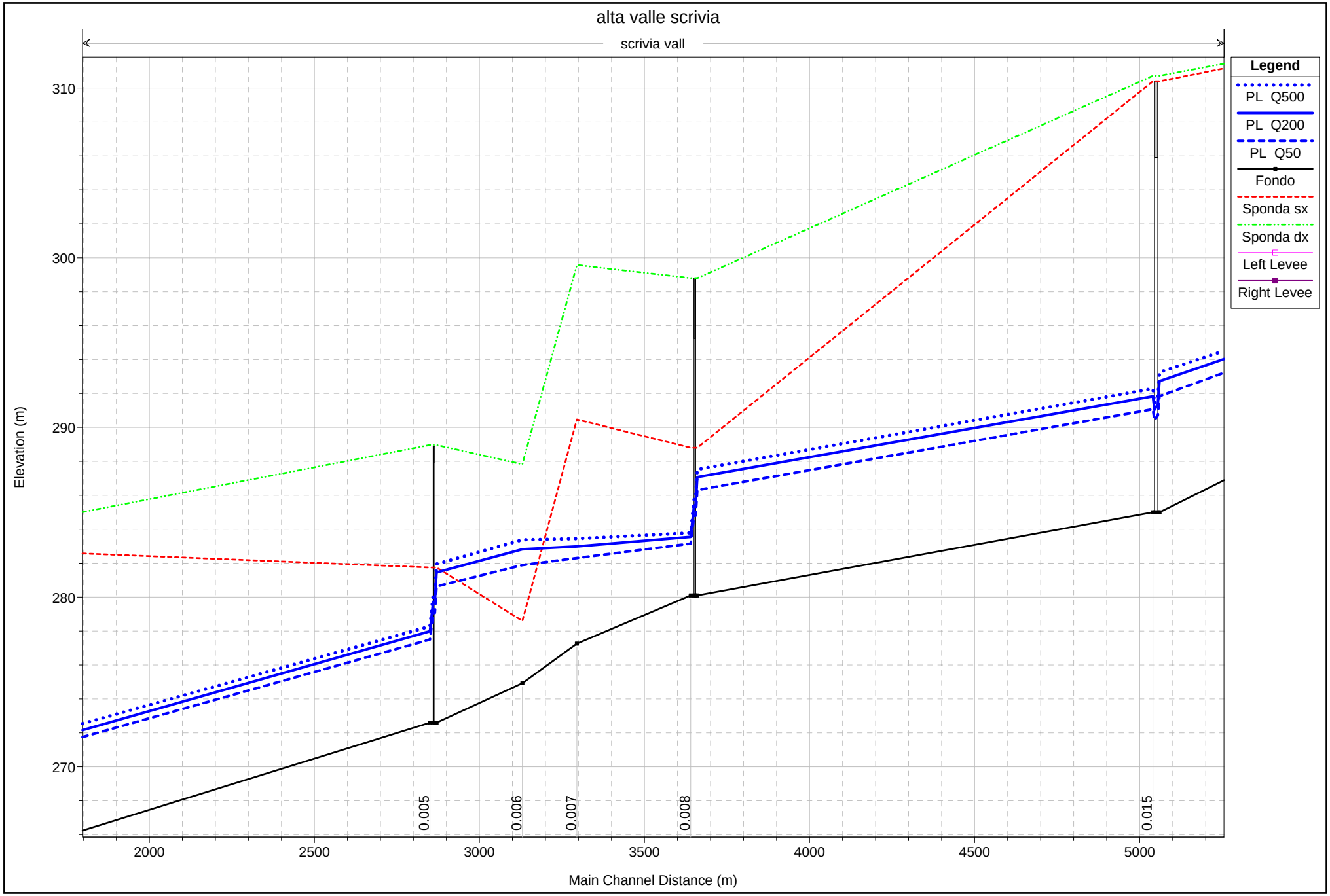
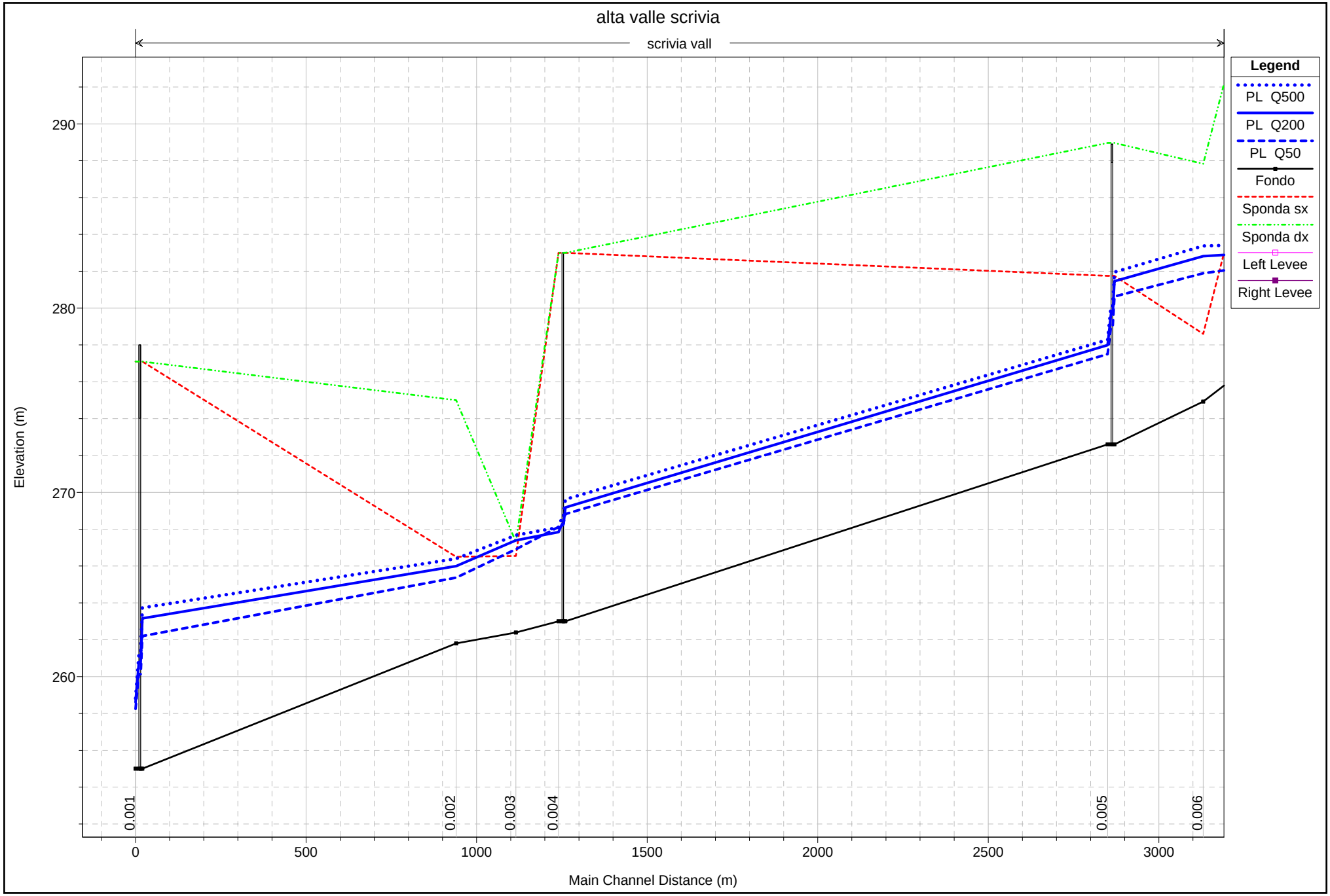
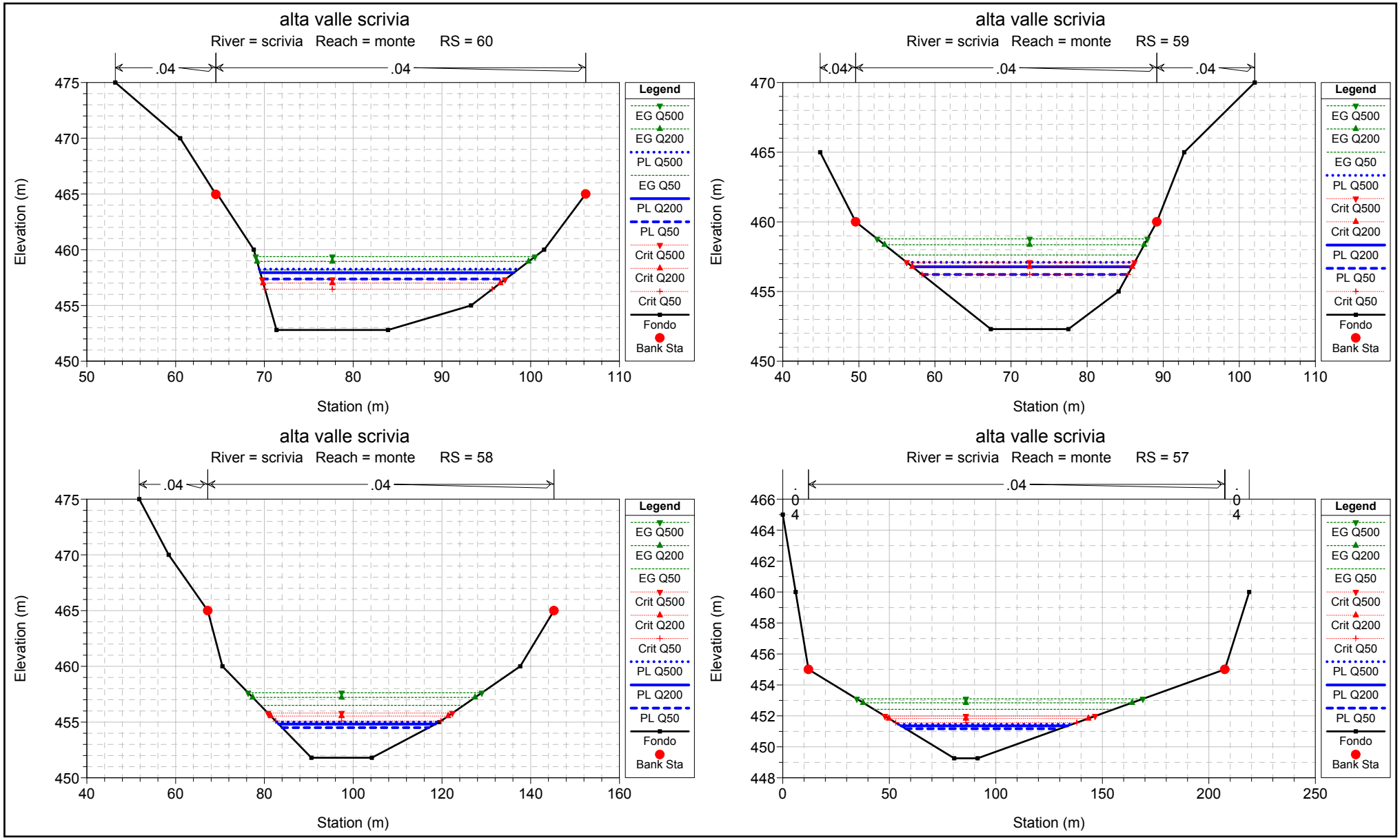
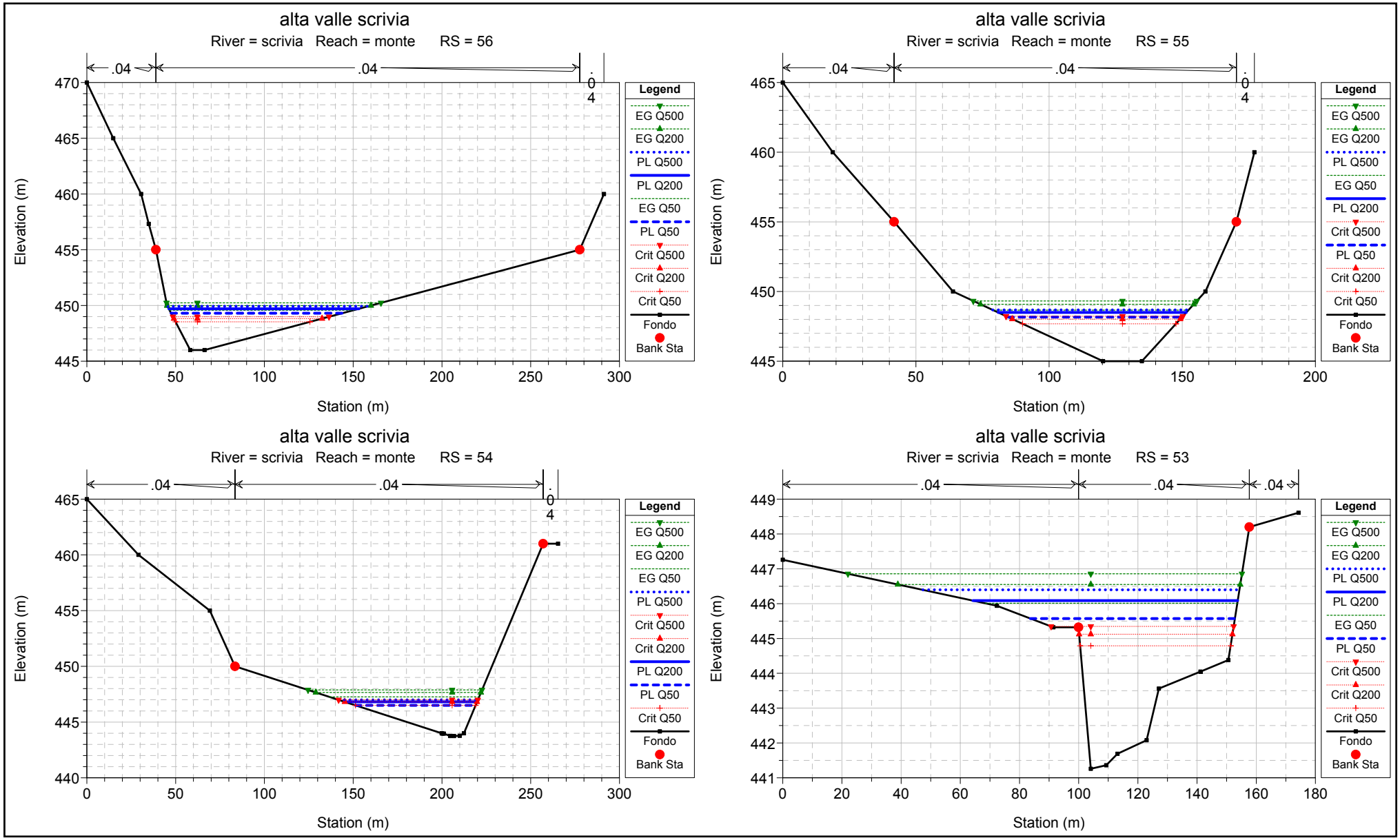
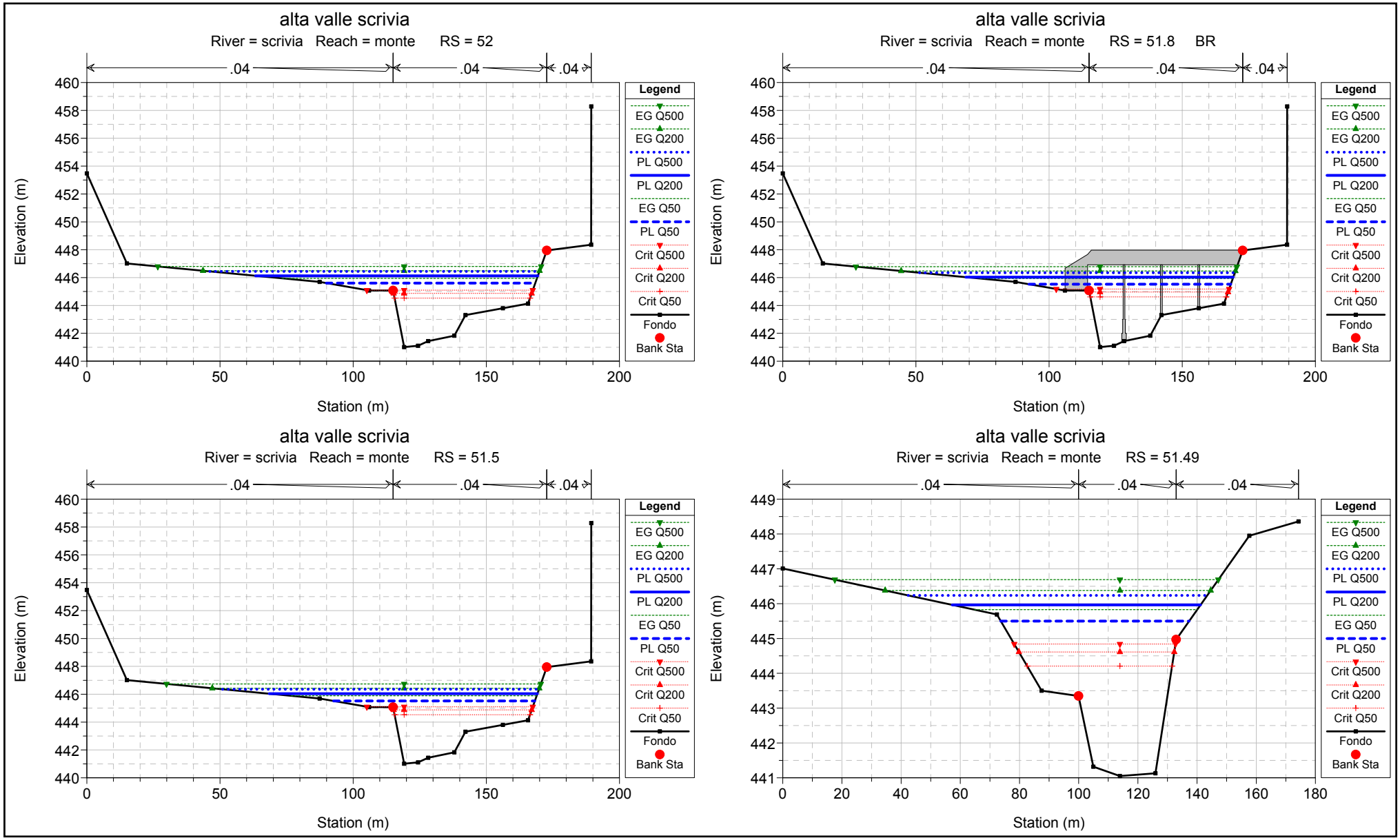


1 cm Horiz. = 150 m 1 cm Vert. = 2.915979 m


alta valle scrivia
scrivia vall
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Left Levee
Right Levee
Elevation (m)
290
280
270
260
0.001
0.002
0.003
0.004
0.005
0.006
0
500
1000
1500
2000
2500
3000
Main Channel Distance (m)


alta valle scrivia
River = scrivia Reach = monte RS = 60
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 59
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 58
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 57
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = monte RS = 56
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 55
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 54
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 53
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
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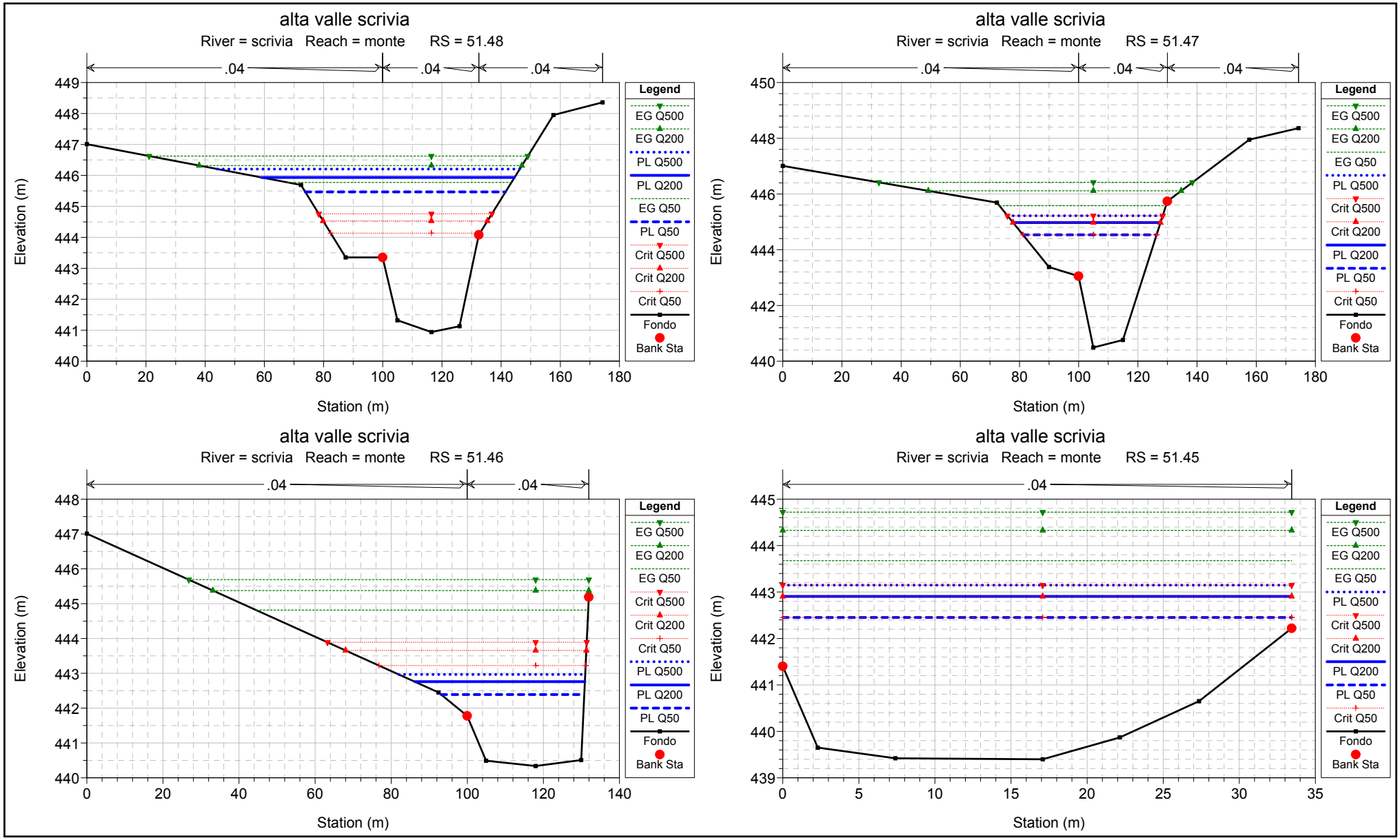
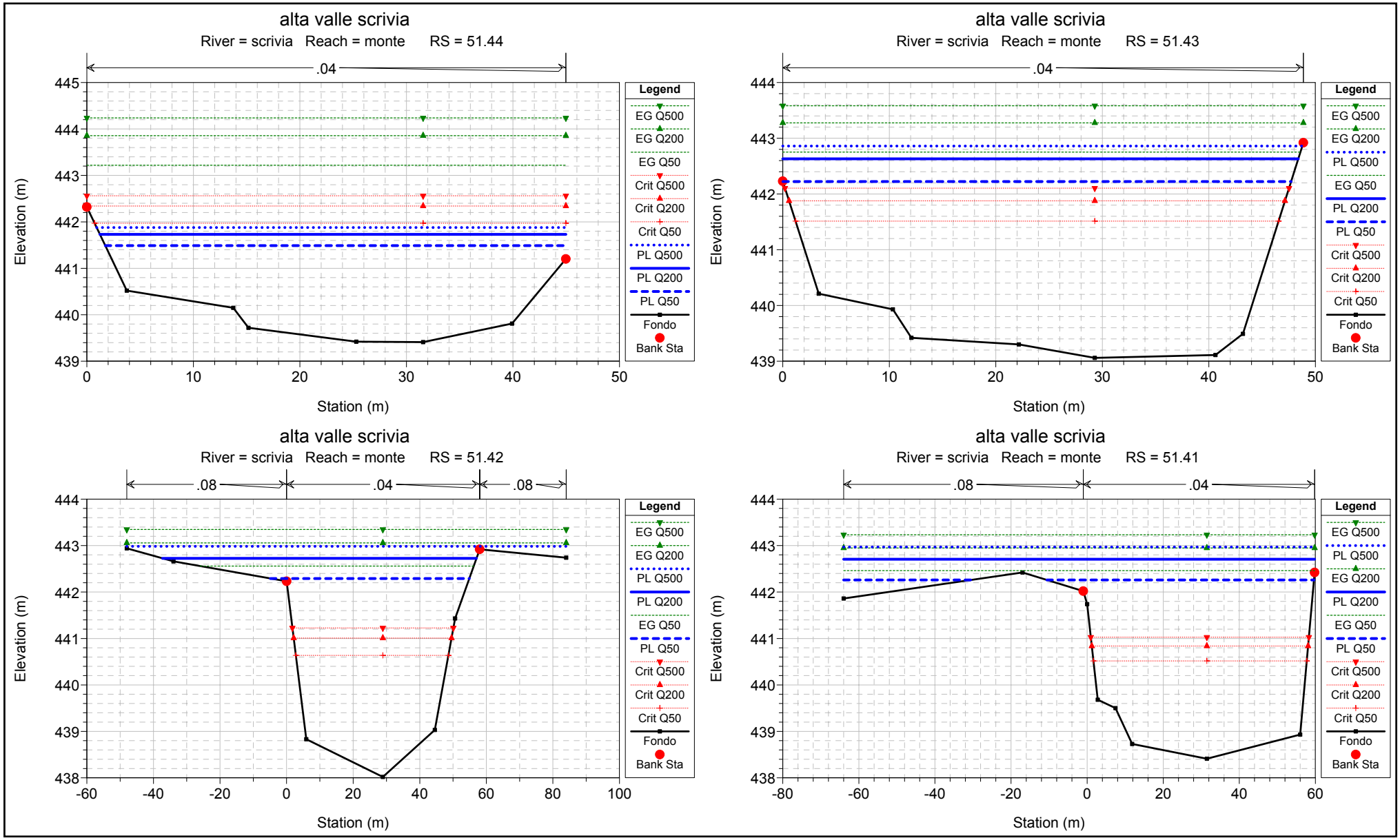
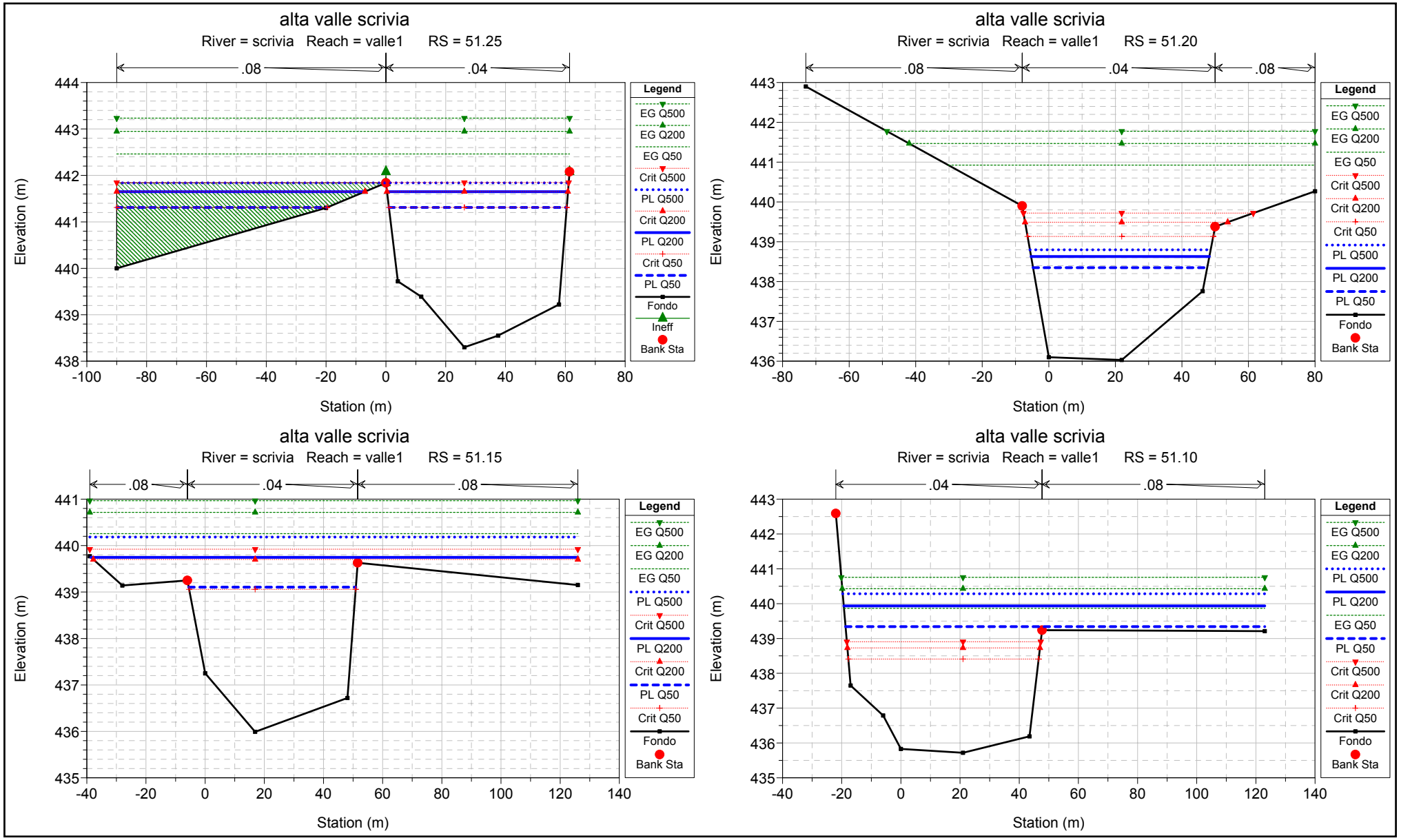
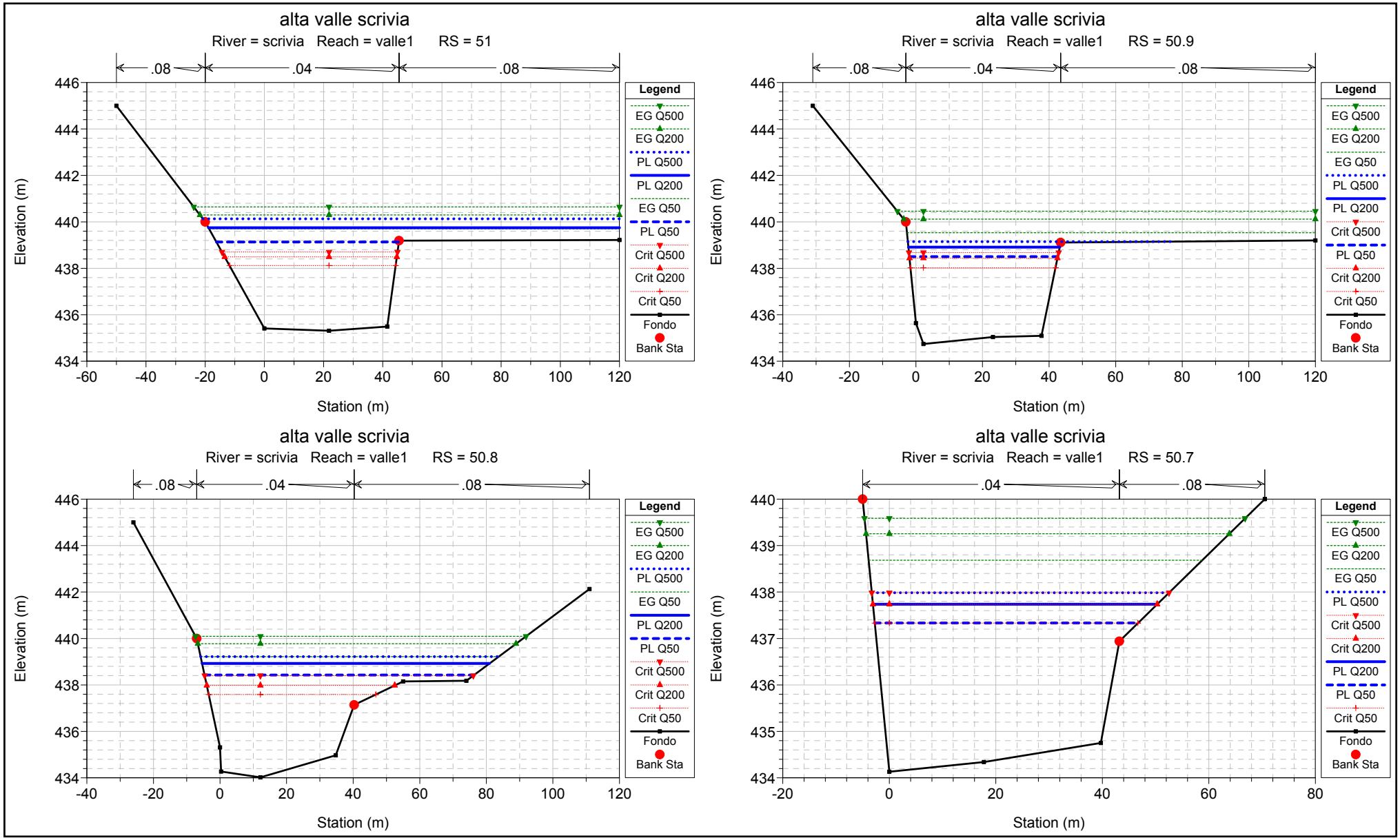
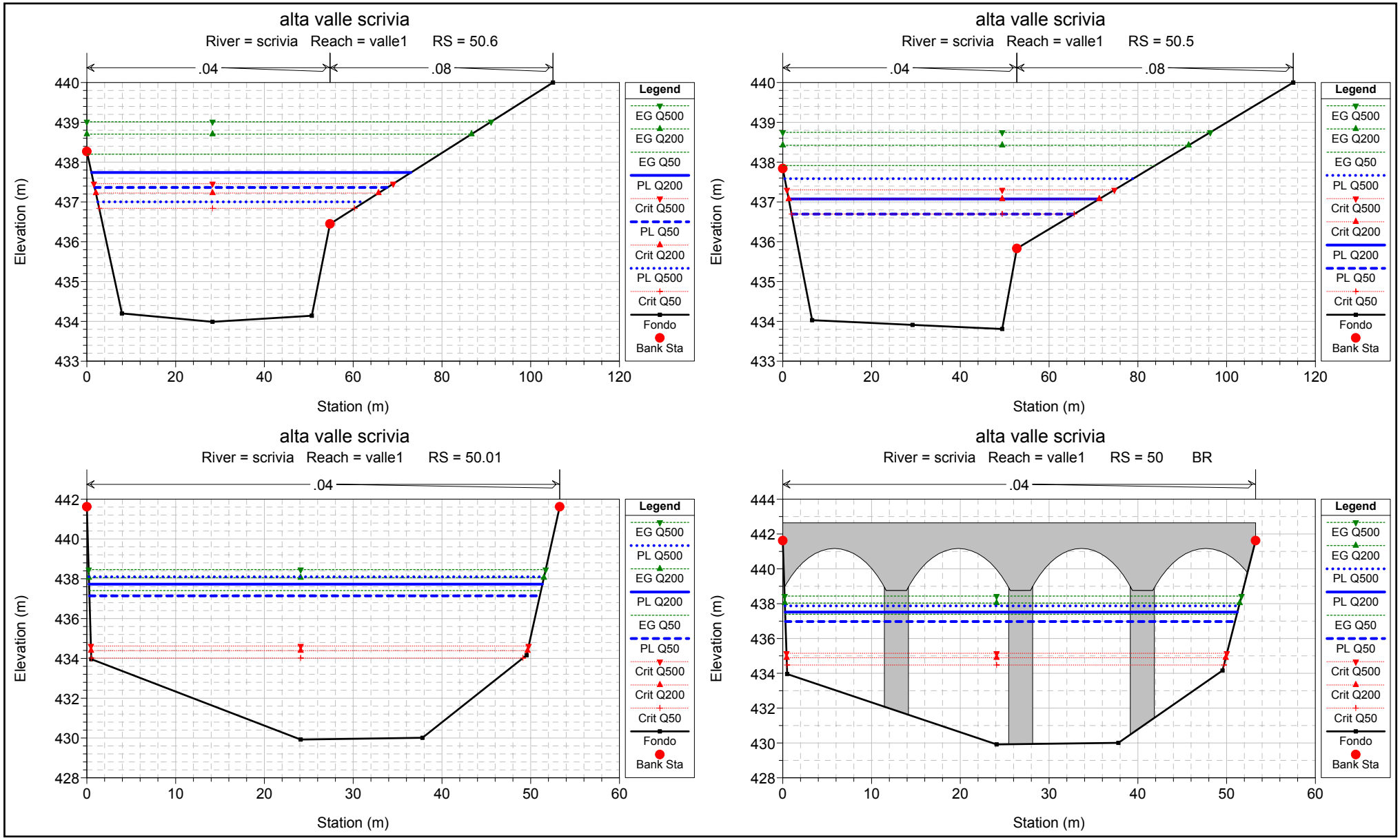
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.49
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

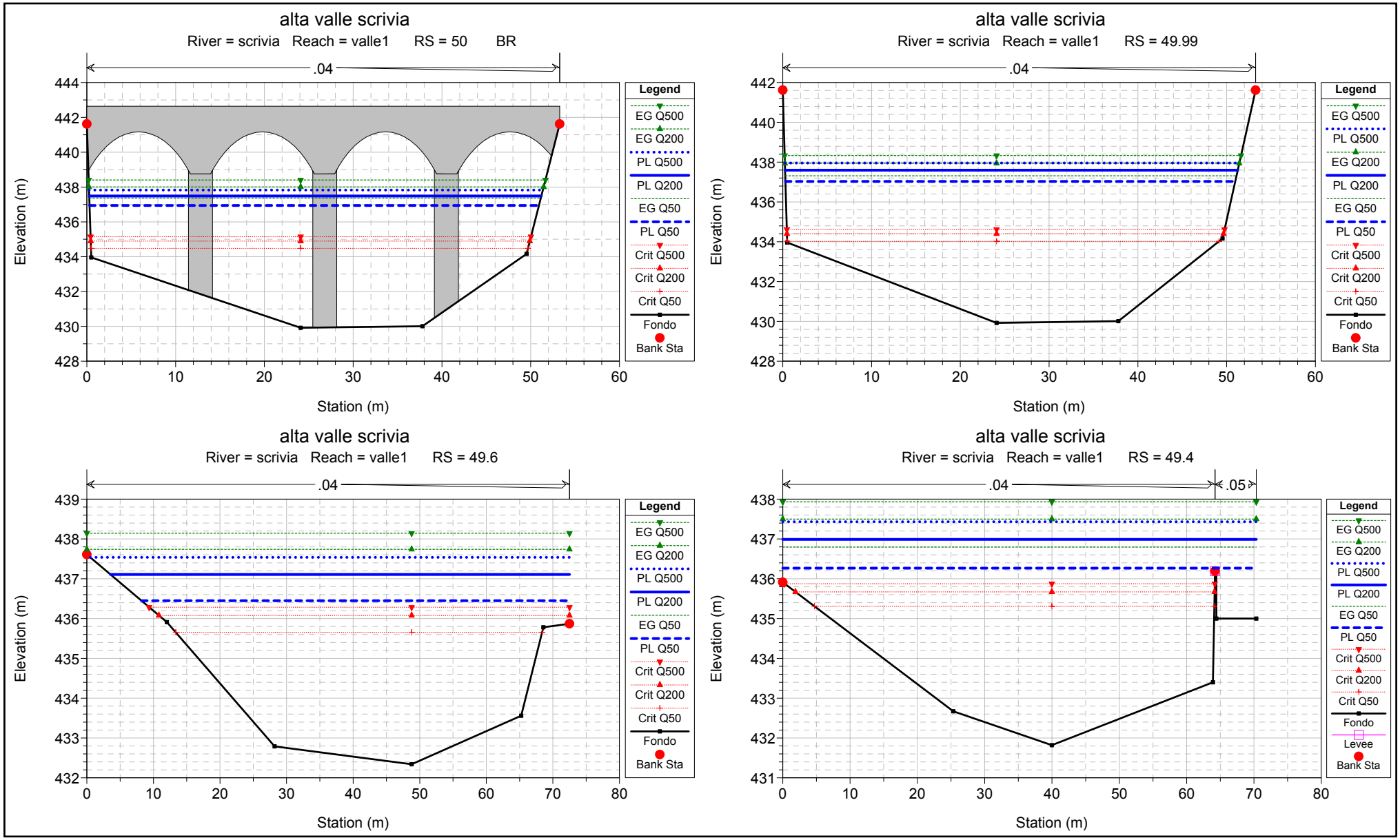

alta valle scrivia
River = scrivia Reach = monte RS = 51.48
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.47
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.46
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.45
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

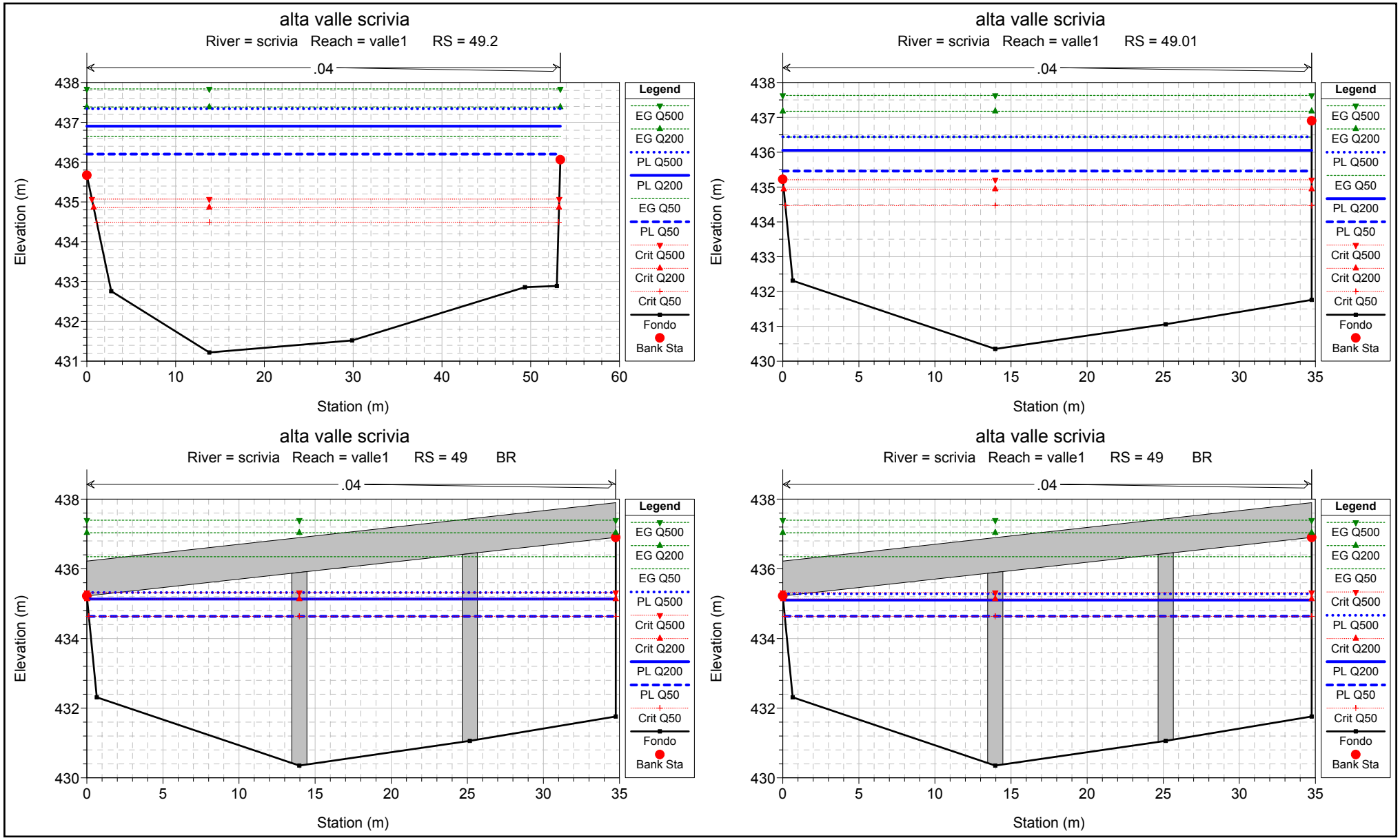

alta valle scrivia
River = scrivia Reach = monte RS = 51.44
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.43
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.42
.08
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = monte RS = 51.41
.08
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

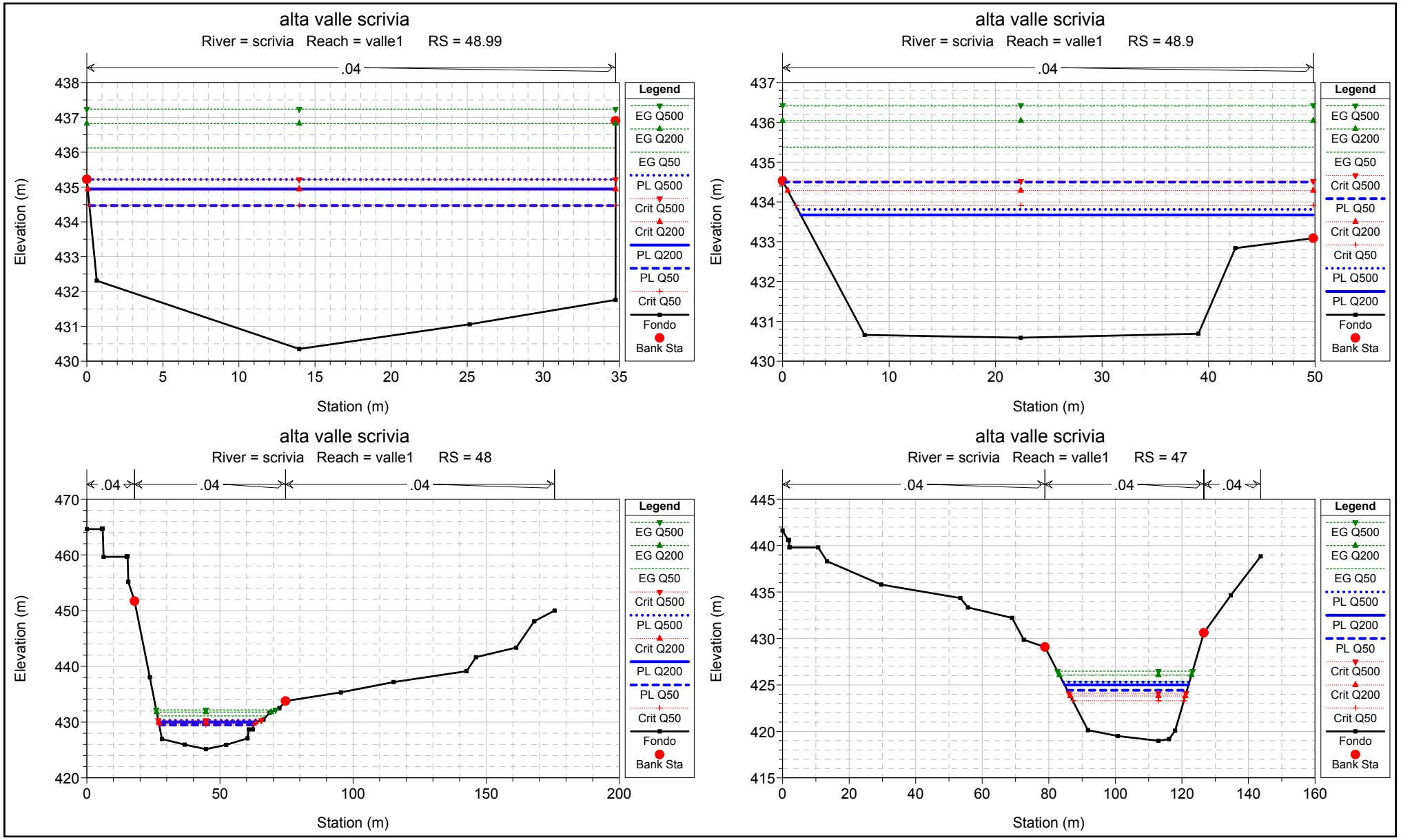

alta valle scrivia
River = scrivia Reach = valle1 RS = 51.25
.08
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Ineff
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 51.20
.08
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 51.15
.08
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 51.10
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

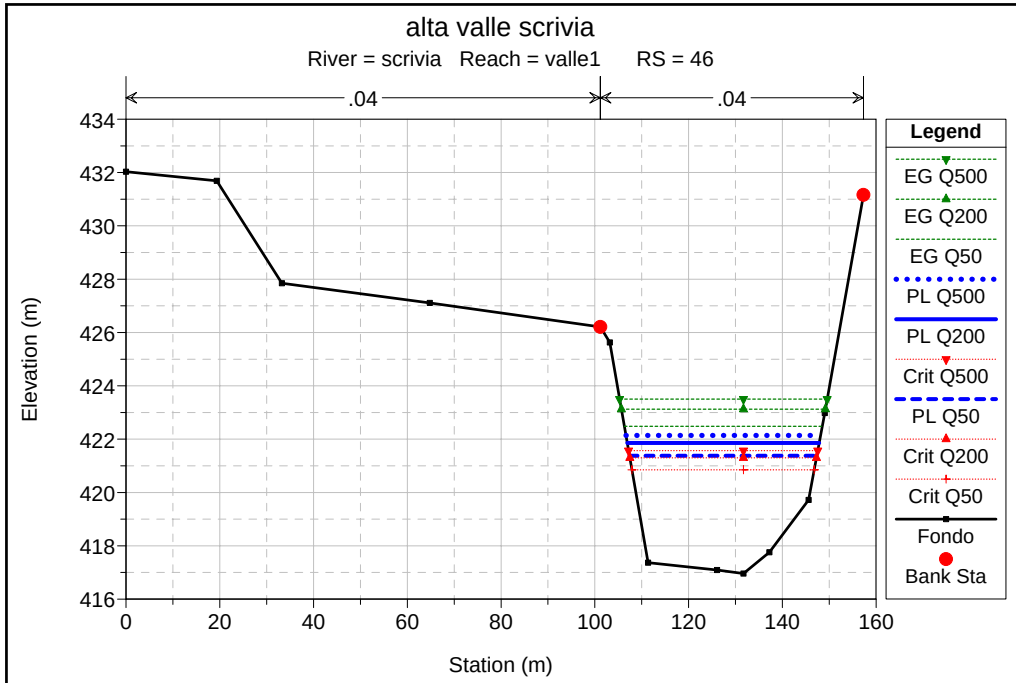

alta valle scrivia
River = scrivia Reach = valle1 RS = 51
.08
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 50.9
.08
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 50.8
.08
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 50.7
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

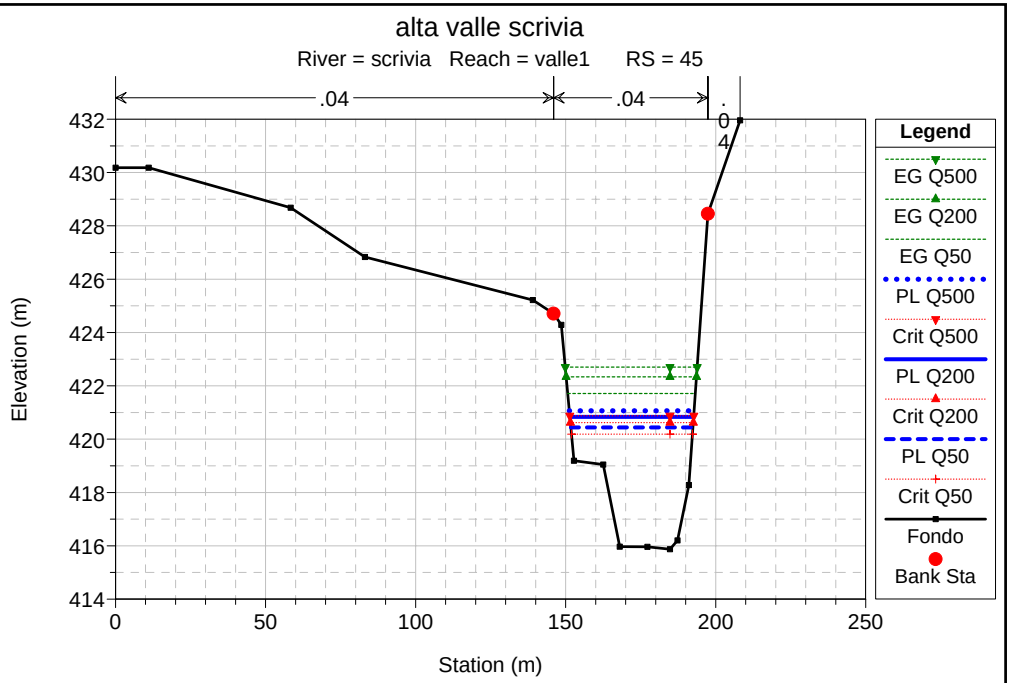

alta valle scrivia
River = scrivia Reach = valle1 RS = 50.6
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q200
Crit Q500
PL Q50
Crit Q200
PL Q500
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 50.5
.04
.08
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 50.01
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 50 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

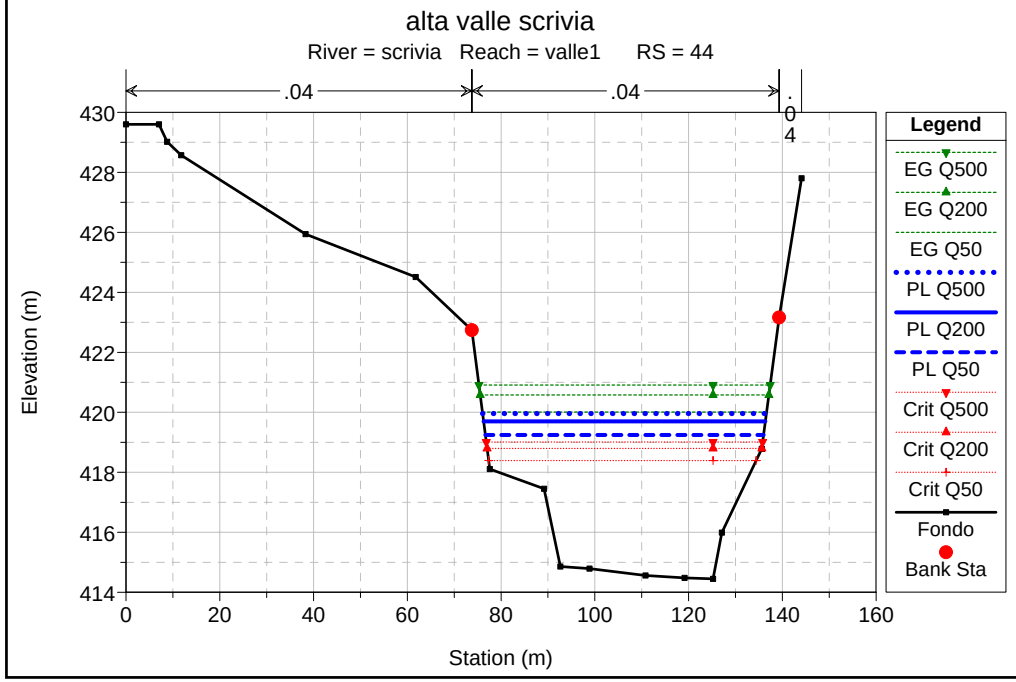

alta valle scrivia
River = scrivia Reach = valle1 RS = 50 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 49.99
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 49.6
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 49.4
.04
.05
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

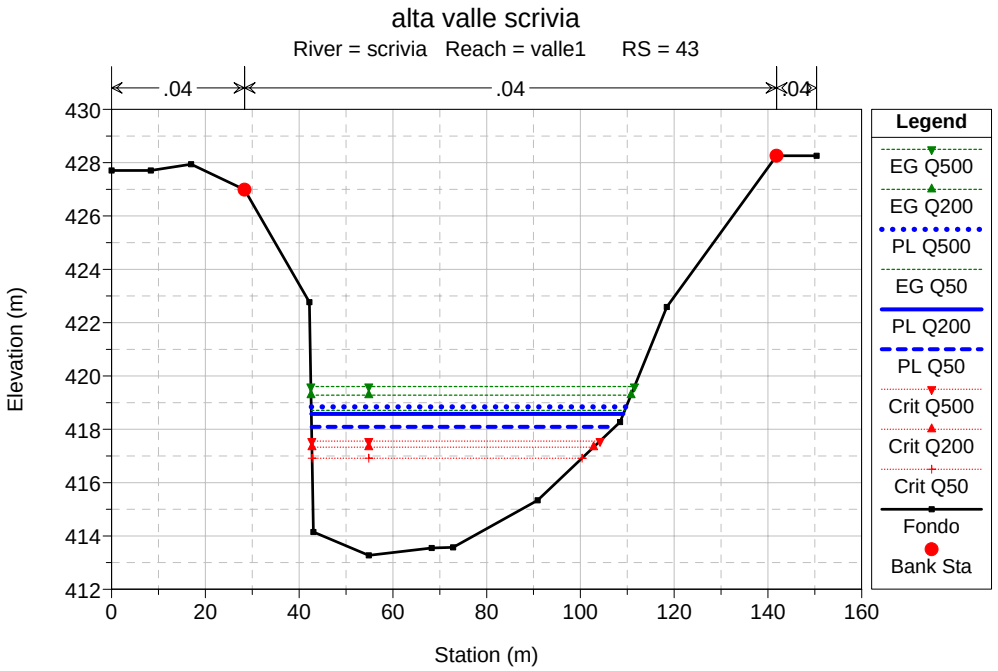

alta valle scrivia
River = scrivia Reach = valle1 RS = 49.2
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 49.01
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 49 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 49 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

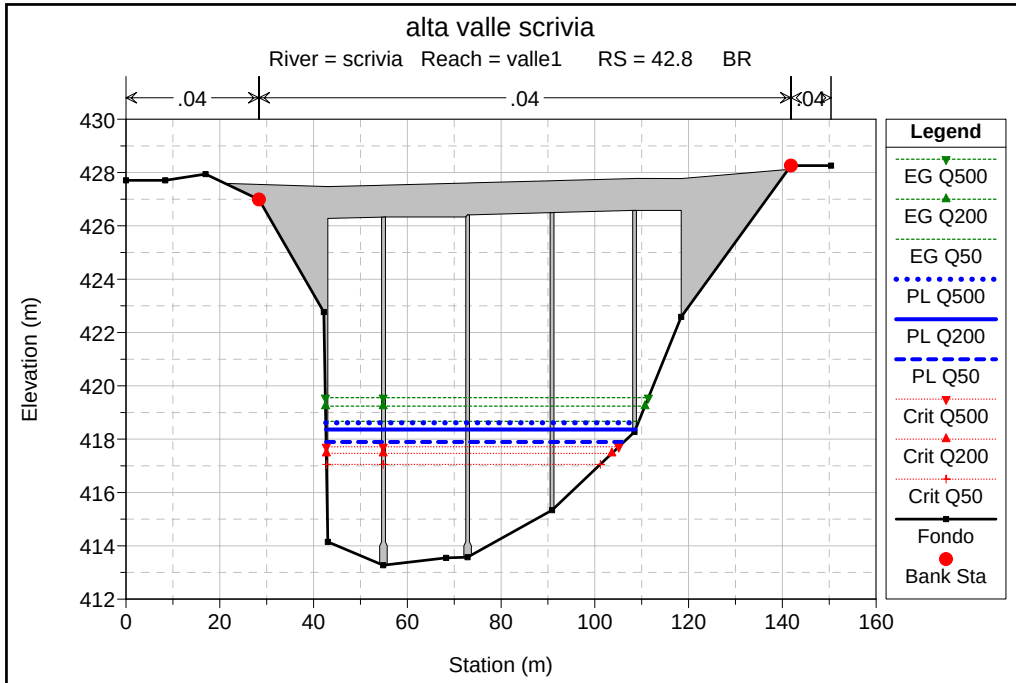

alta valle scrivia
River = scrivia Reach = valle1 RS = 48.99
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 48.9
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
PL Q500
PL Q200
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 48
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle1 RS = 47
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

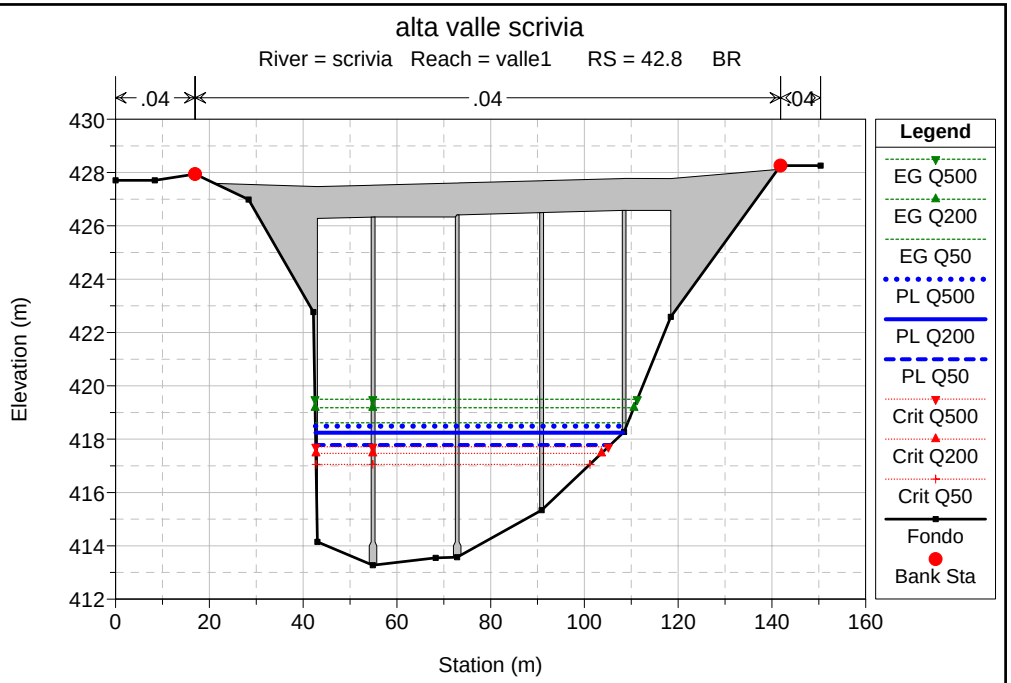

alta valle scrivia
River = scrivia Reach = valle1 RS = 46
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

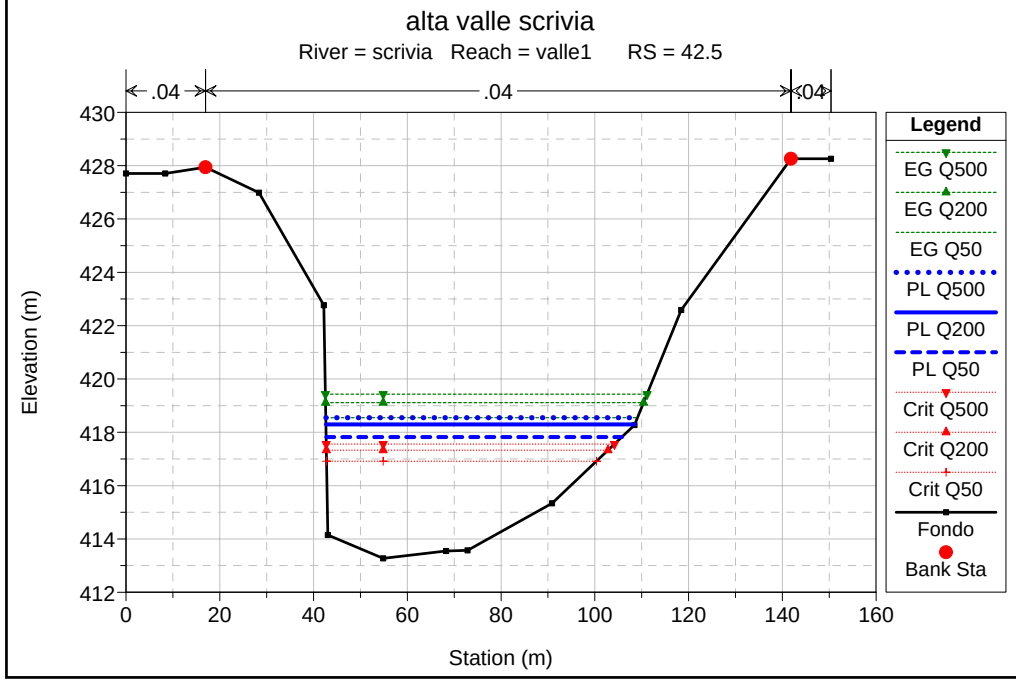

alta valle scrivia
River = scrivia Reach = valle1 RS = 45
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

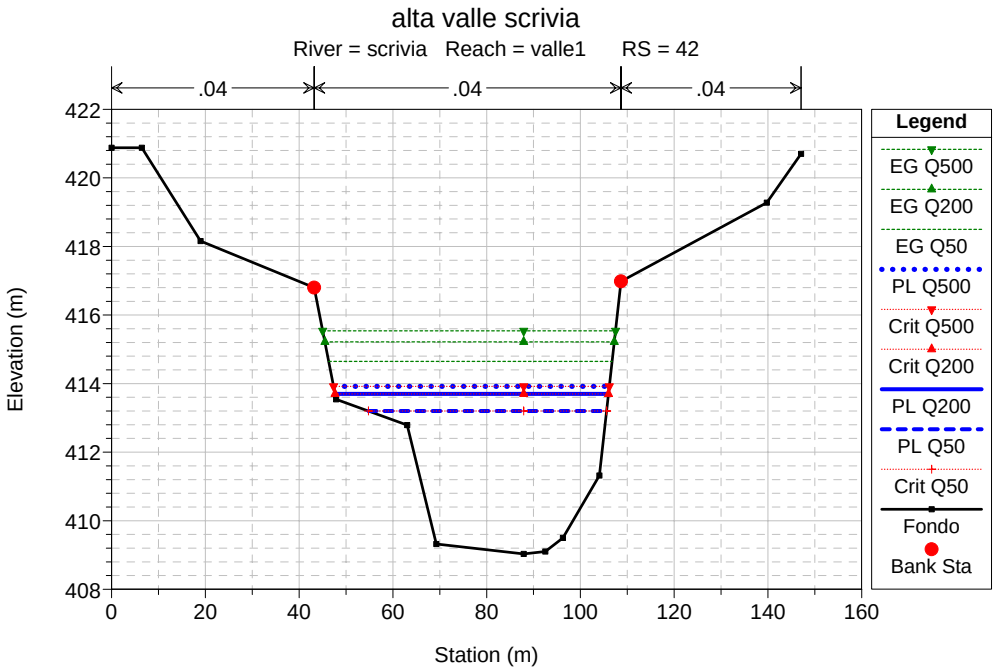

alta valle scrivia
River = scrivia Reach = valle1 RS = 44
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

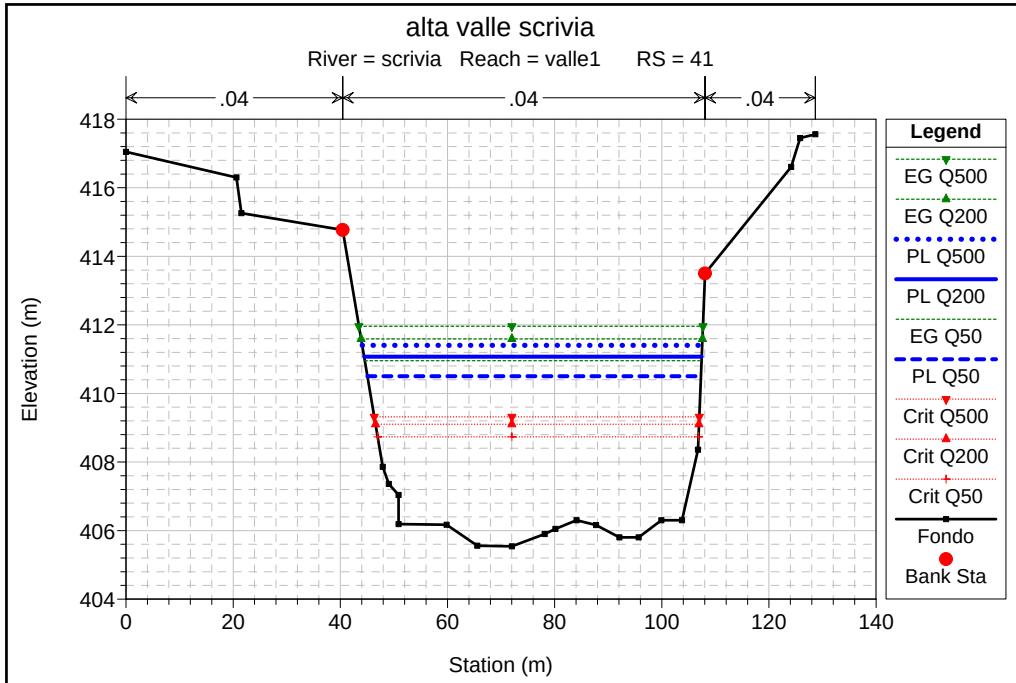

alta valle scrivia
River = scrivia Reach = valle1 RS = 43
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

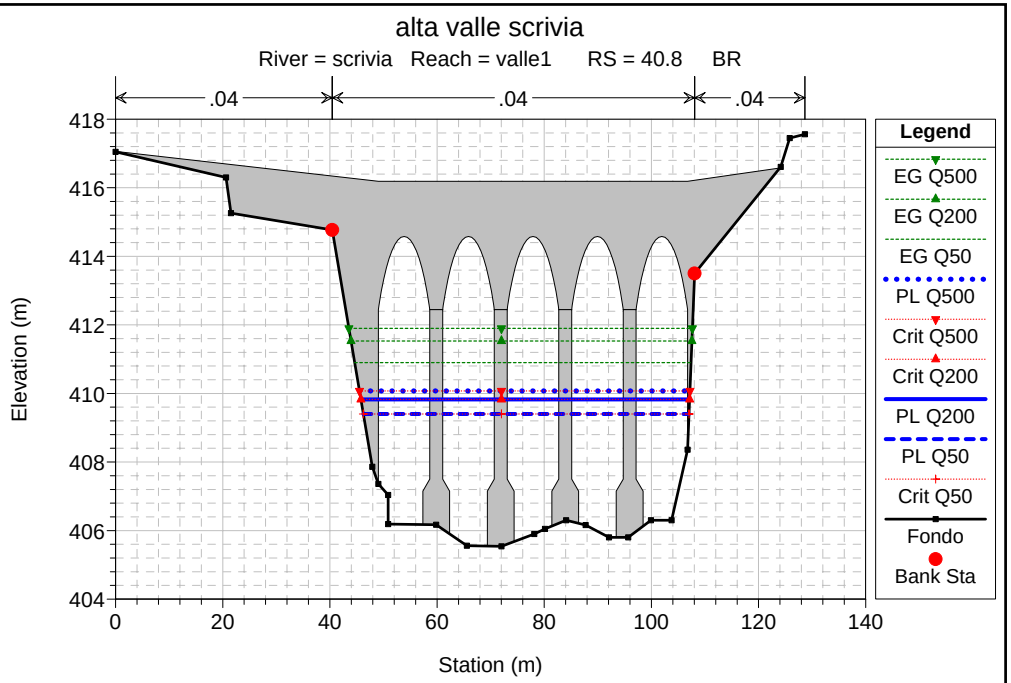

alta valle scrivia
River = scrivia Reach = valle1 RS = 42.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

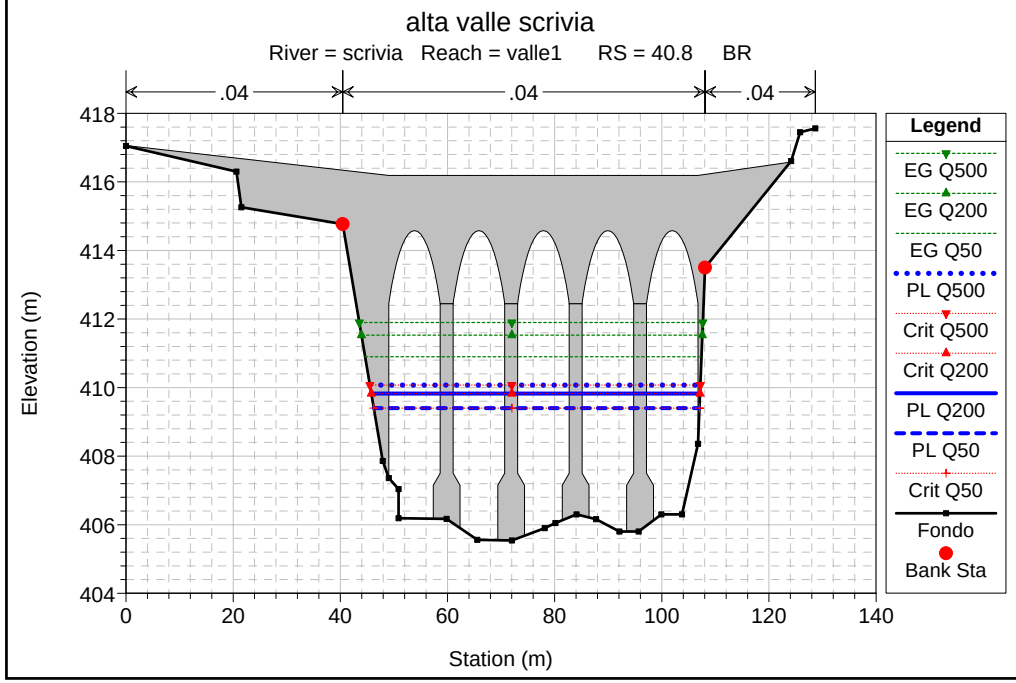

alta valle scrivia
River = scrivia Reach = valle1 RS = 42.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

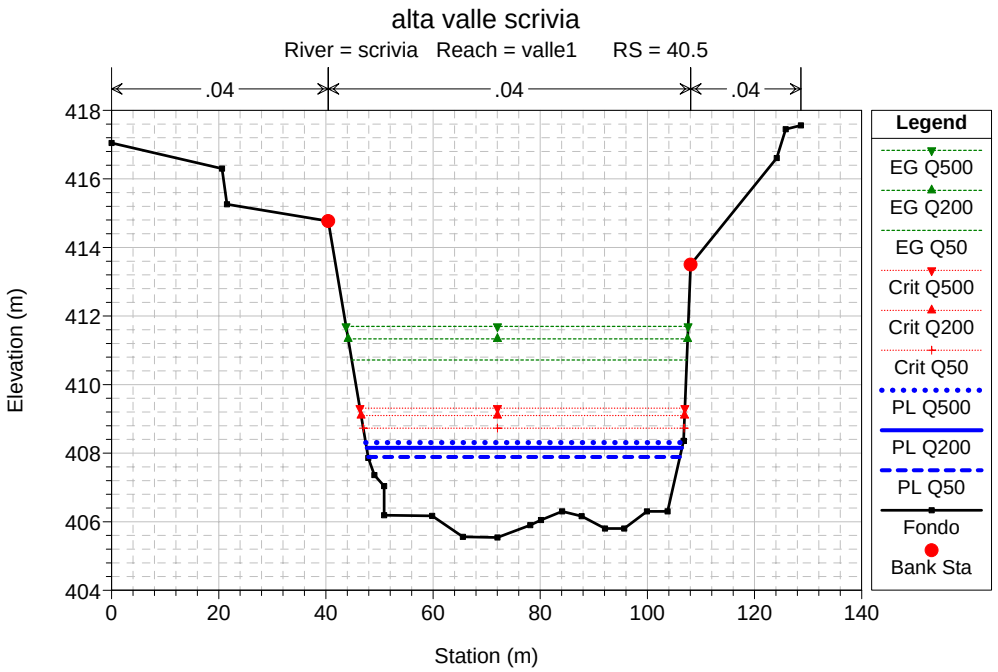

alta valle scrivia
River = scrivia Reach = valle1 RS = 42.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

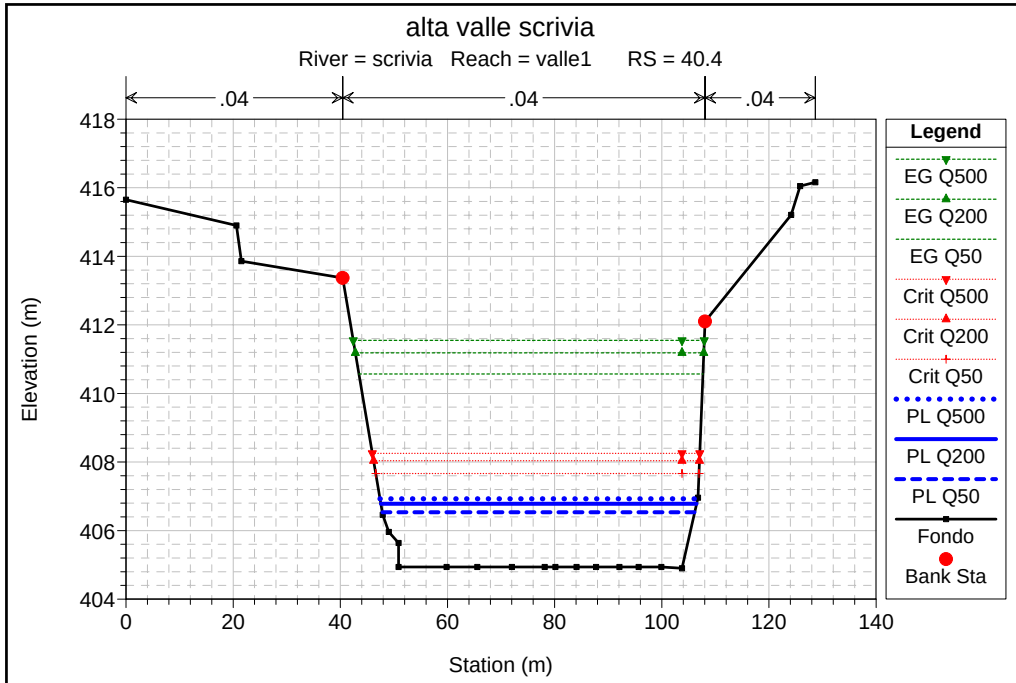

alta valle scrivia
River = scrivia Reach = valle1 RS = 42
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

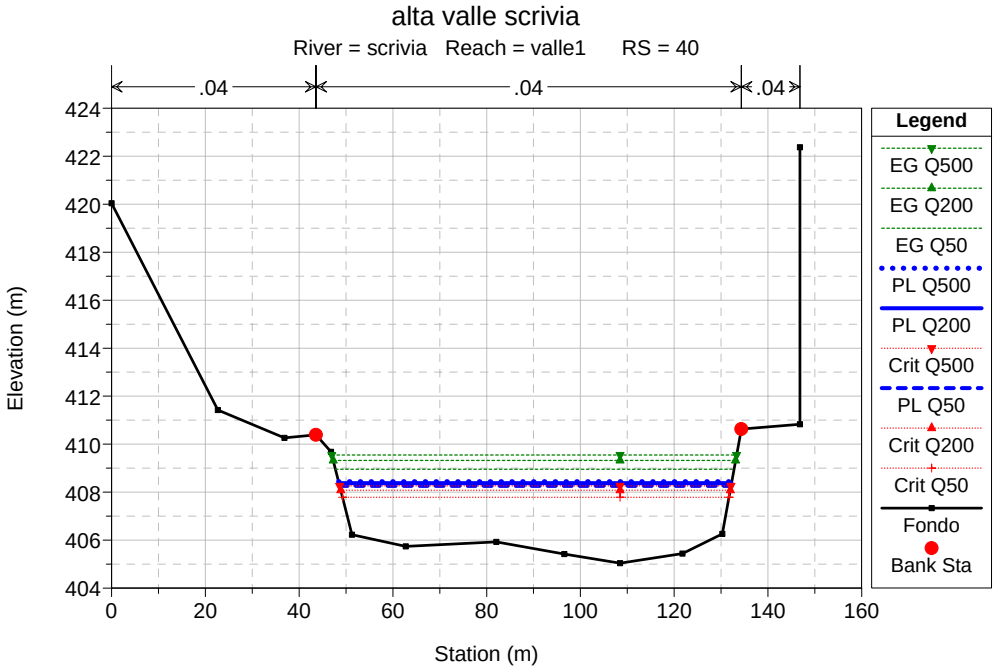

alta valle scrivia
River = scrivia Reach = valle1 RS = 41
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

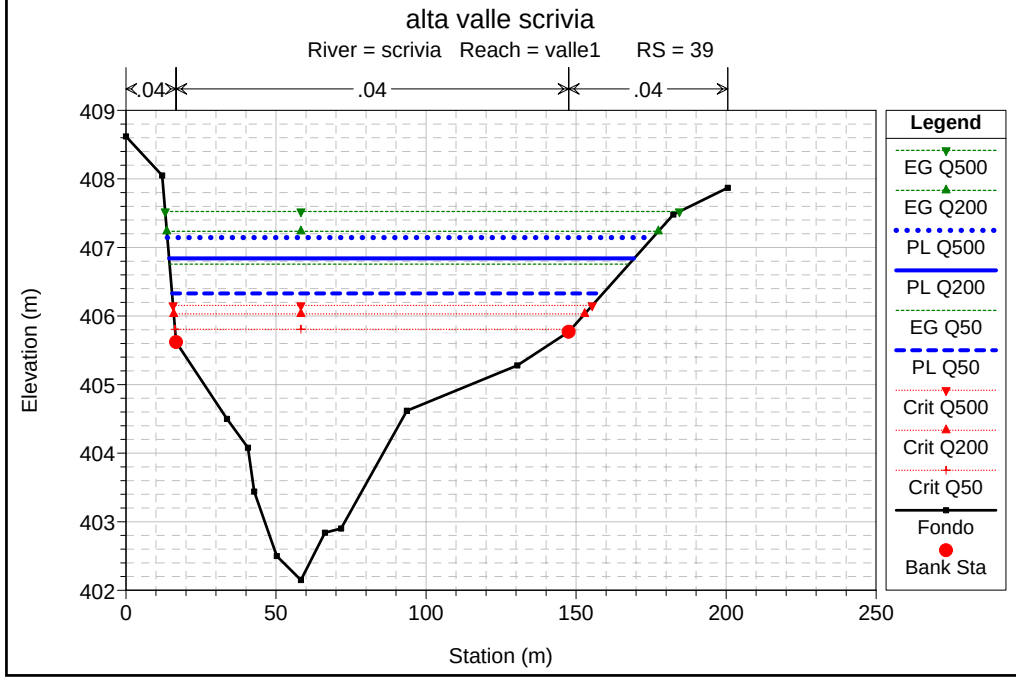

alta valle scrivia
River = scrivia Reach = valle1 RS = 40.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

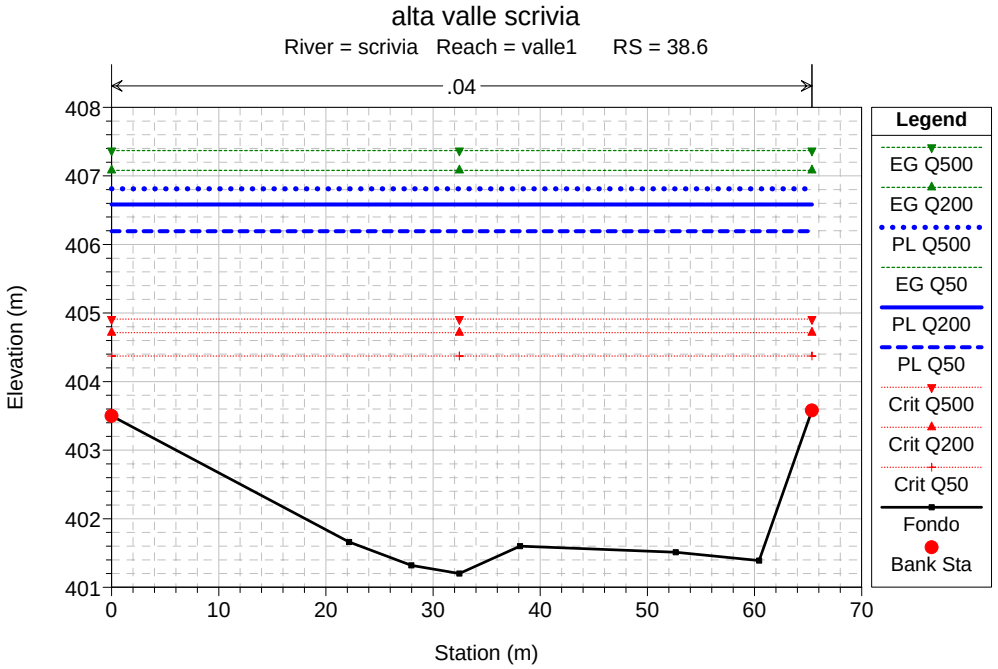

alta valle scrivia
River = scrivia Reach = valle1 RS = 40.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

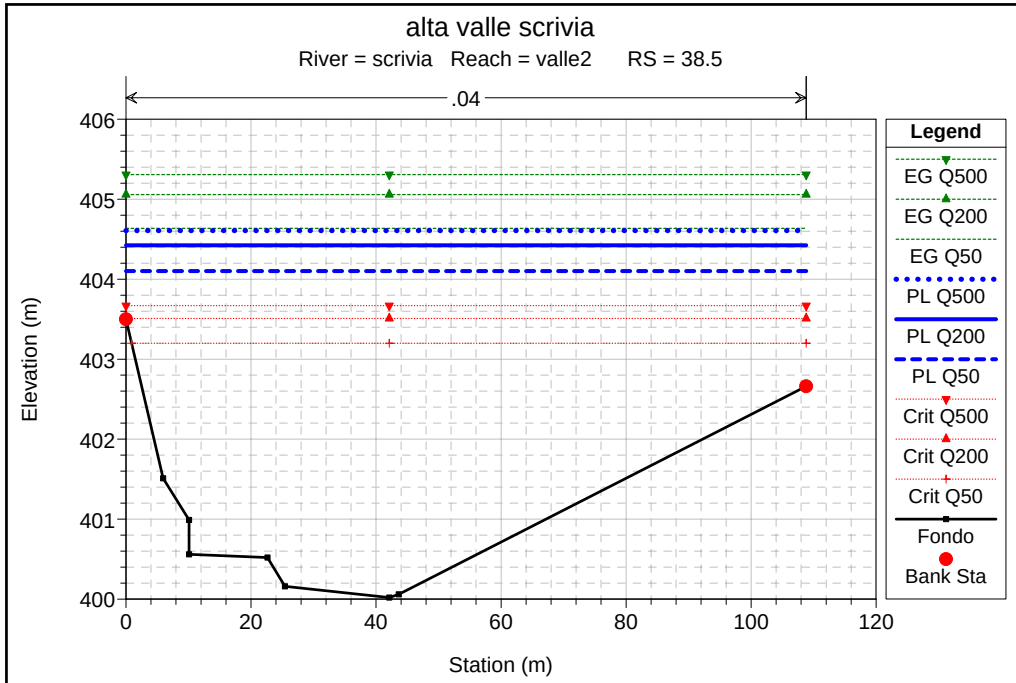

alta valle scrivia
River = scrivia Reach = valle1 RS = 40.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

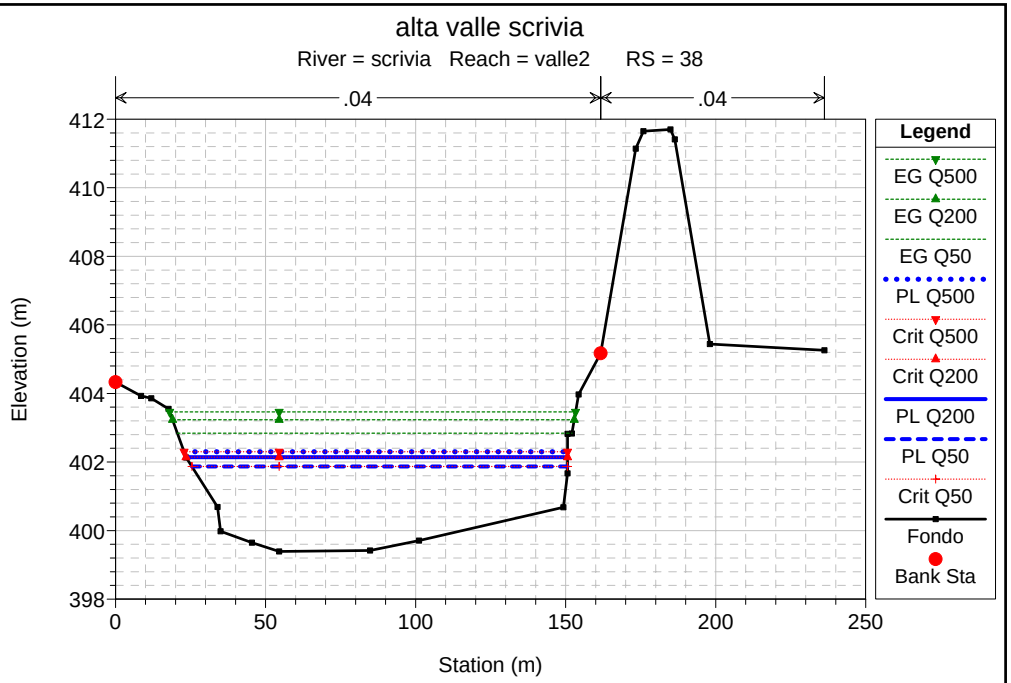

alta valle scrivia
River = scrivia Reach = valle1 RS = 40.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

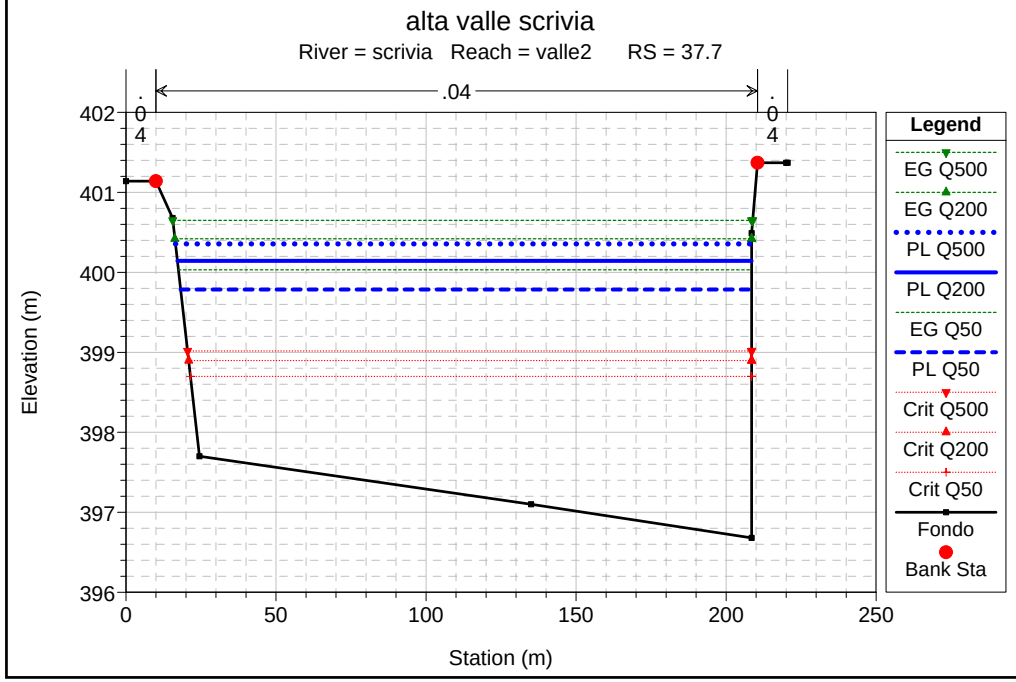

alta valle scrivia
River = scrivia Reach = valle1 RS = 40
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta

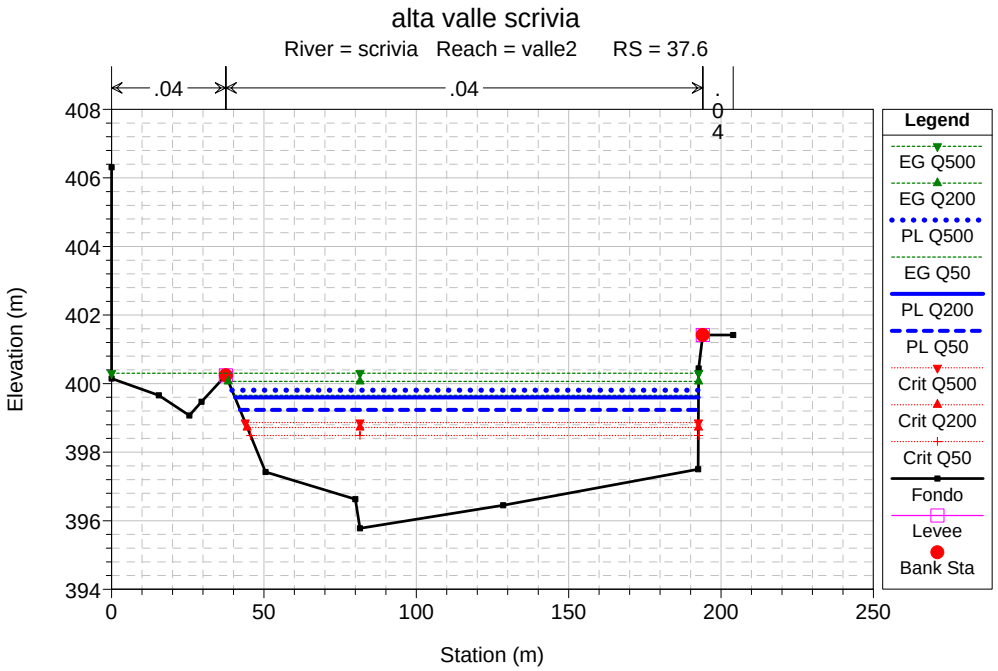

alta valle scrivia
River = scrivia Reach = valle1 RS = 39
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

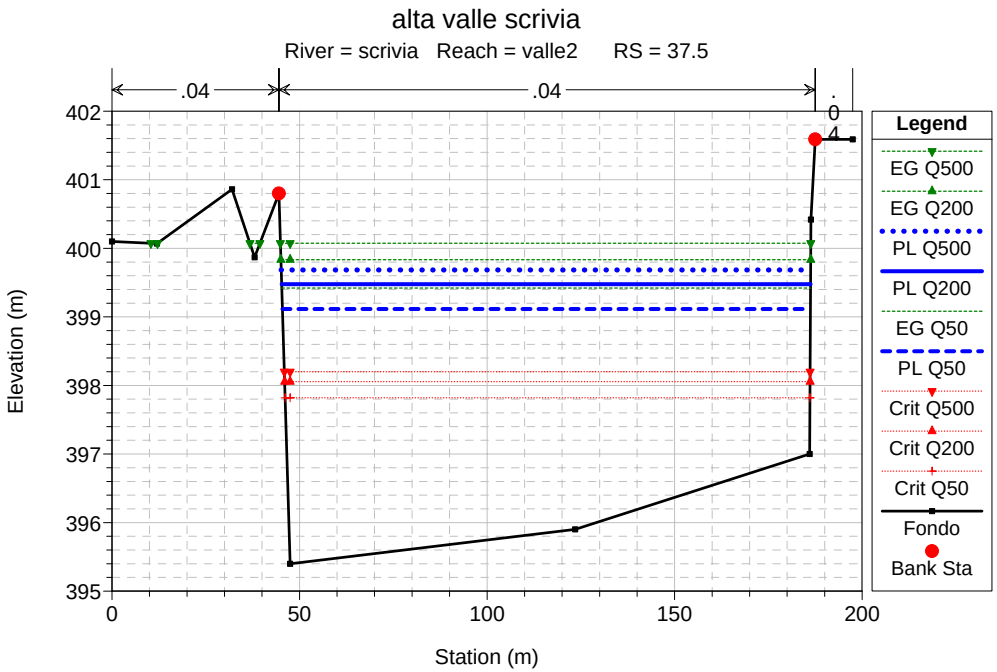

alta valle scrivia
River = scrivia Reach = valle1 RS = 38.6
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

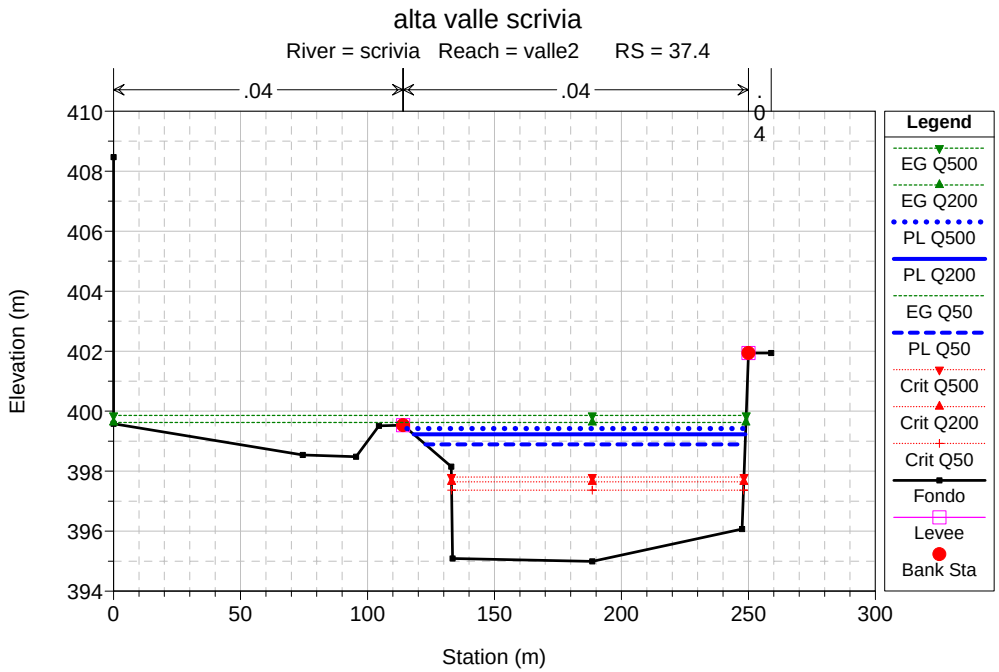

alta valle scrivia
River = scrivia Reach = valle2 RS = 38.5
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

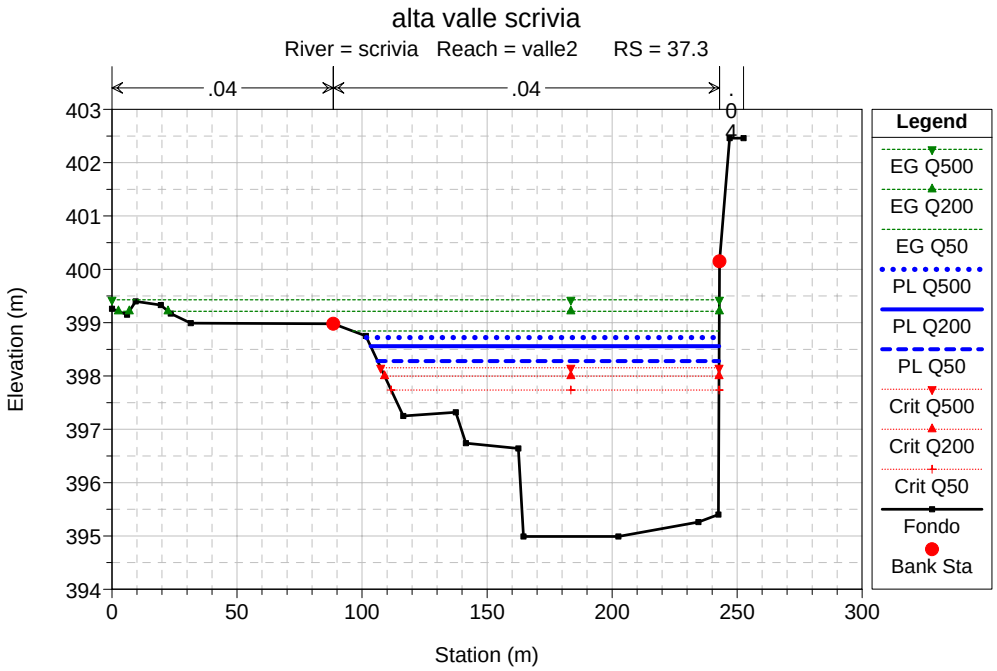

alta valle scrivia
River = scrivia Reach = valle2 RS = 38
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

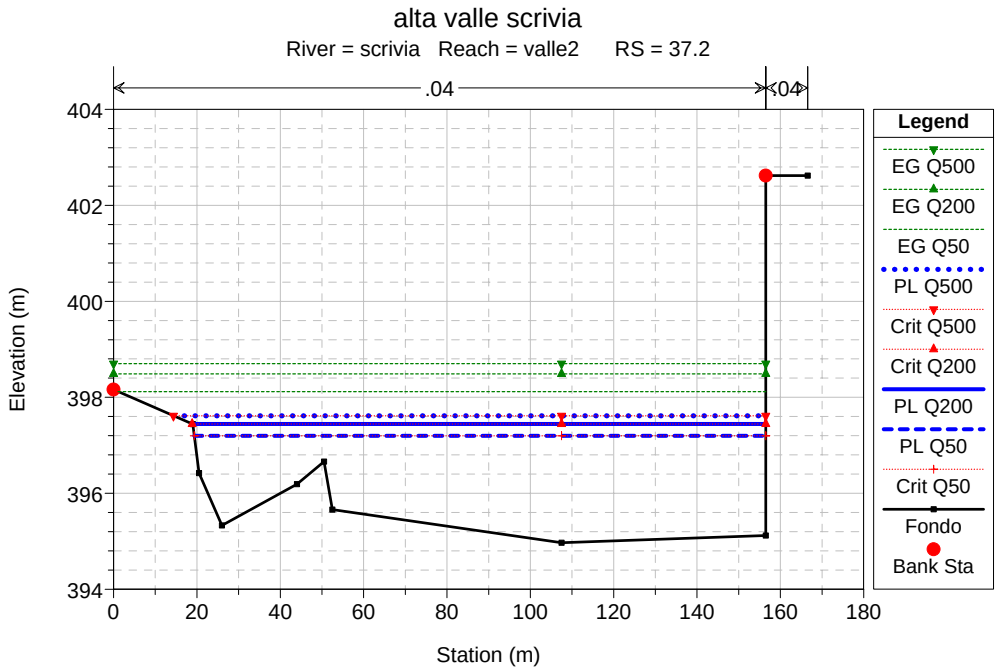

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.7
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

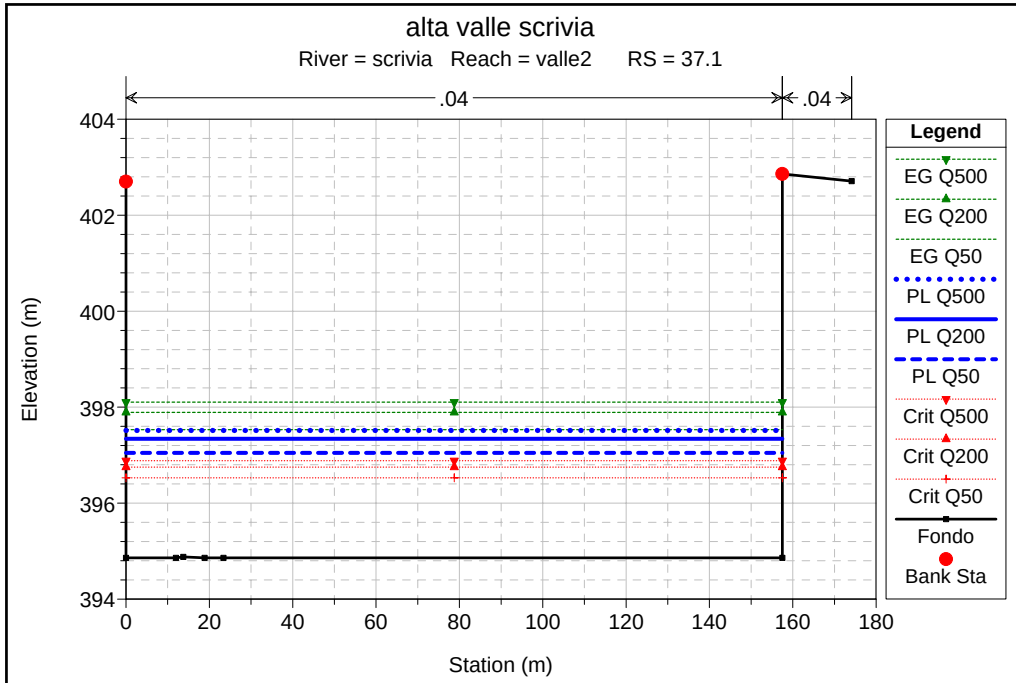

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.6
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

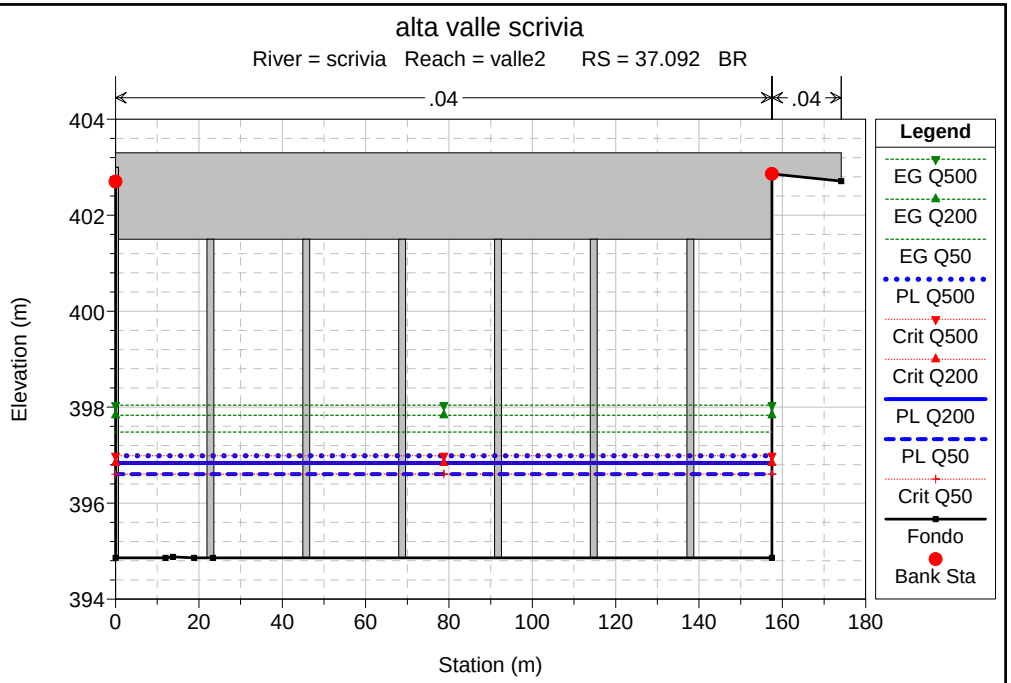

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

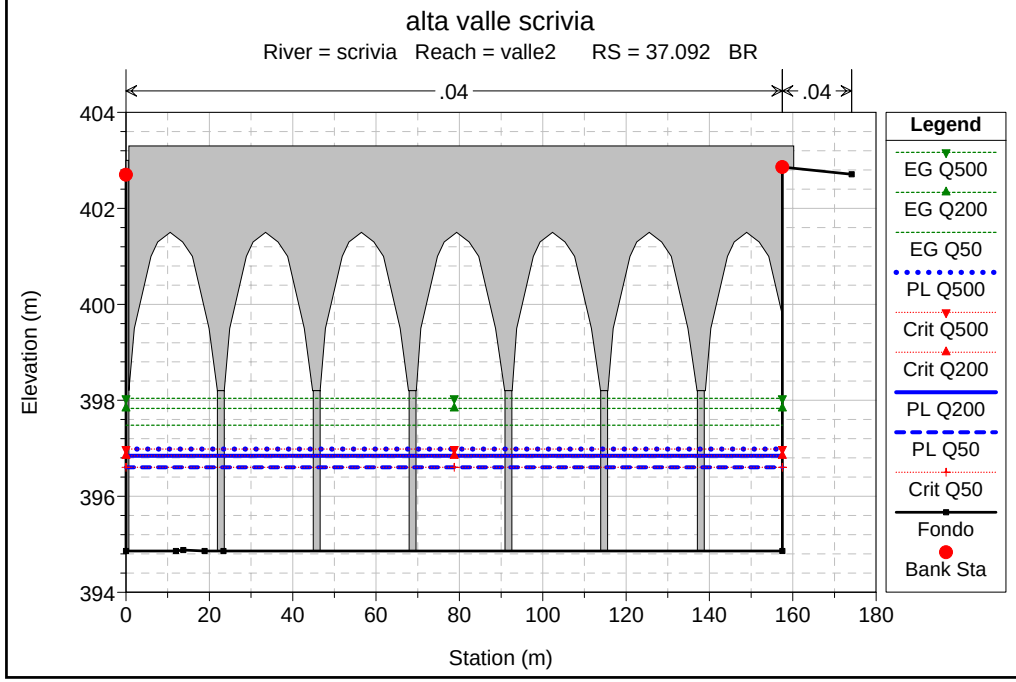

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

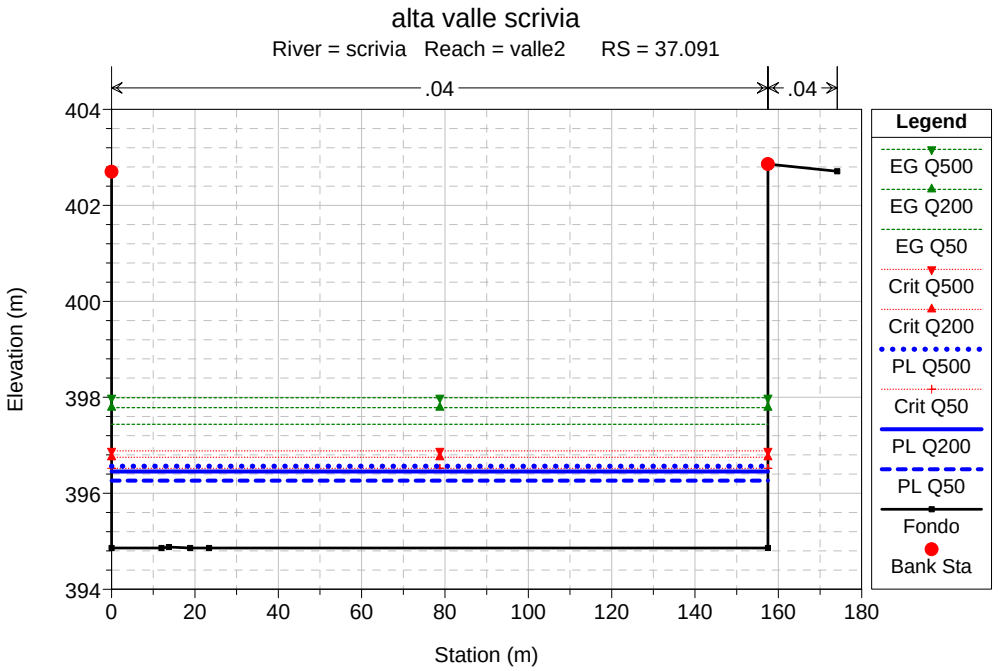

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.3
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

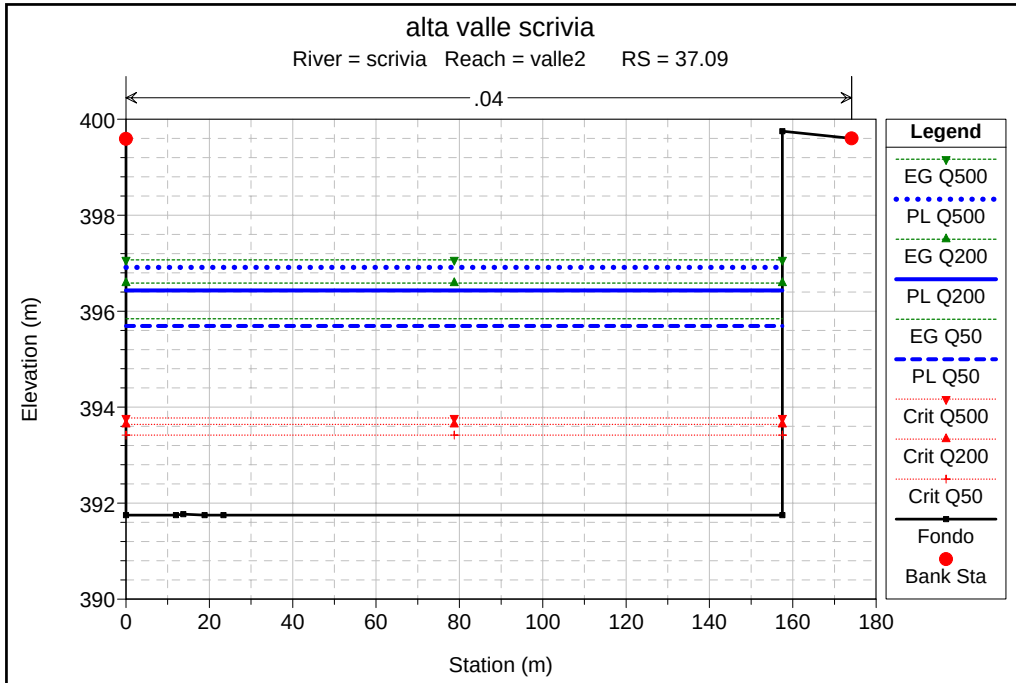

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.2
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

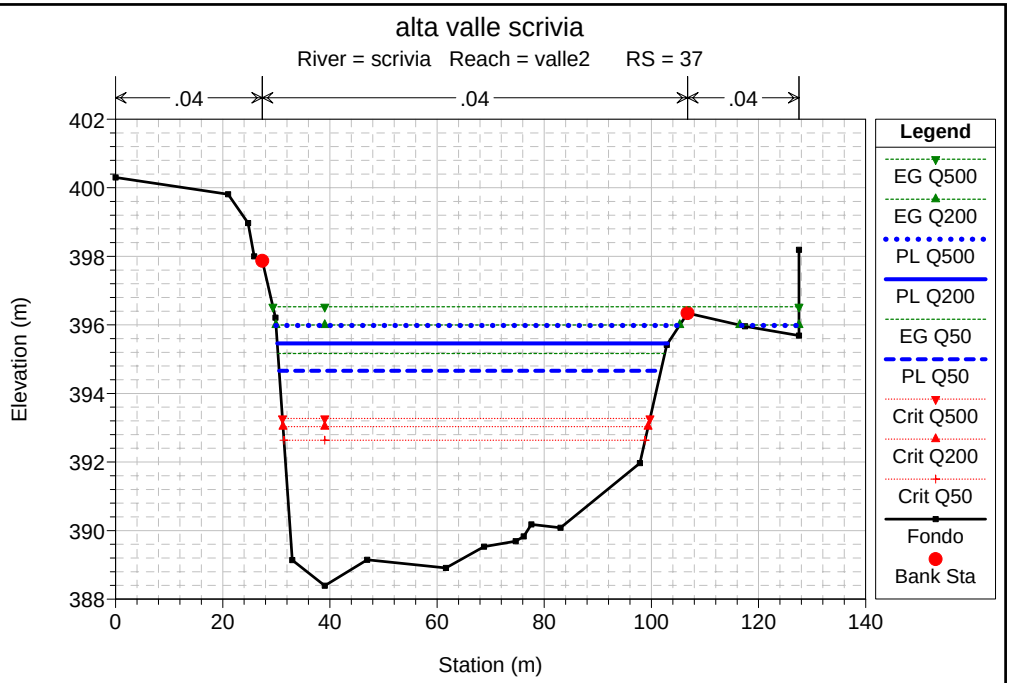

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.1
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

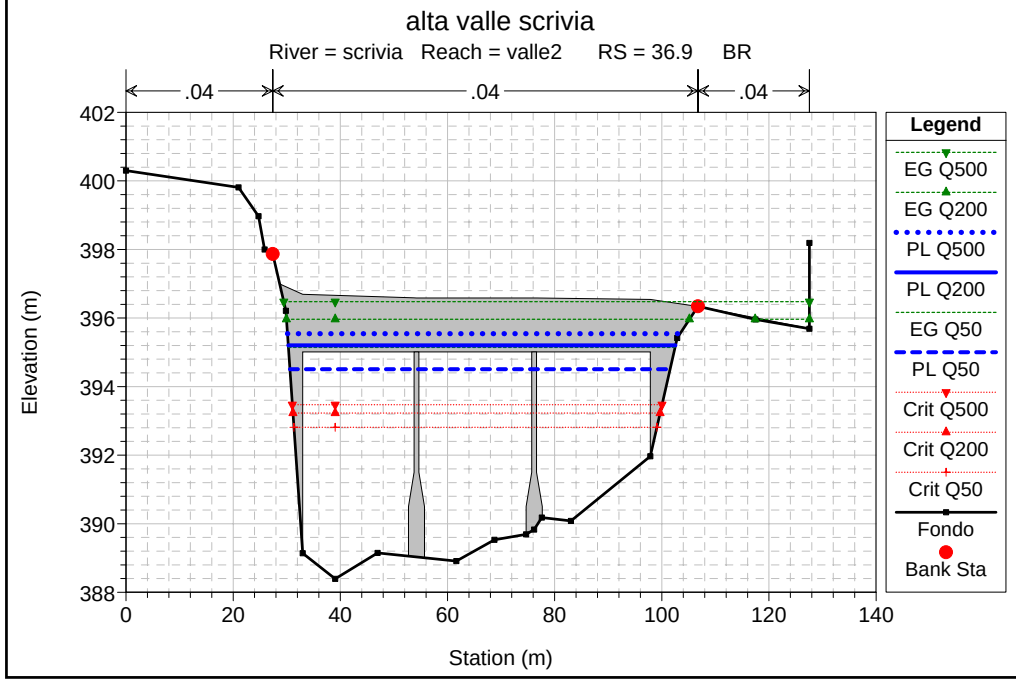

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.092 BR
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

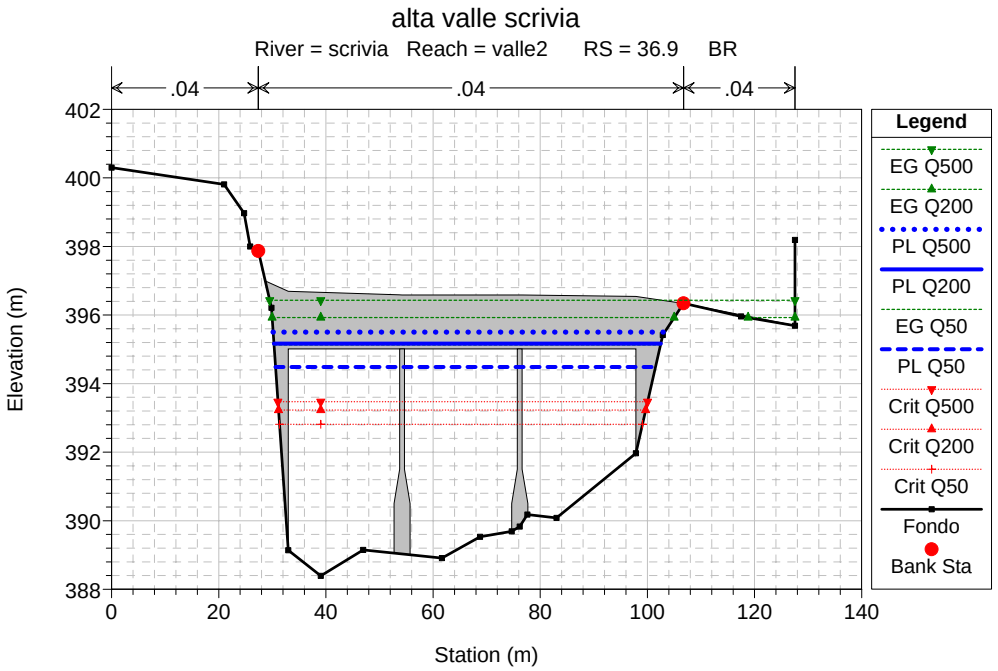

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.092 BR
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

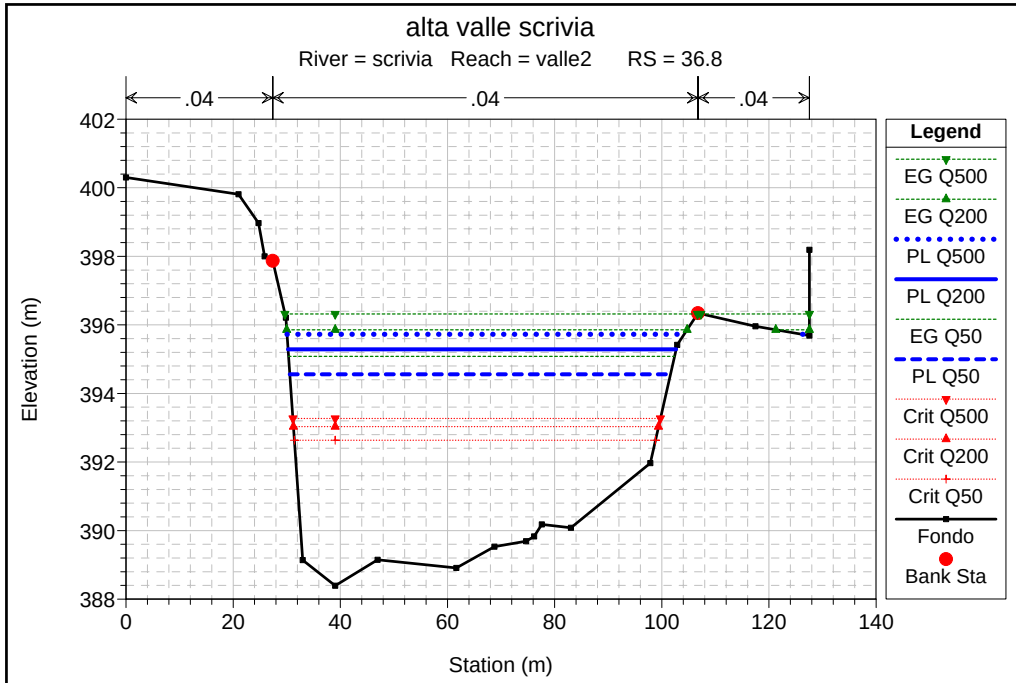

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.091
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

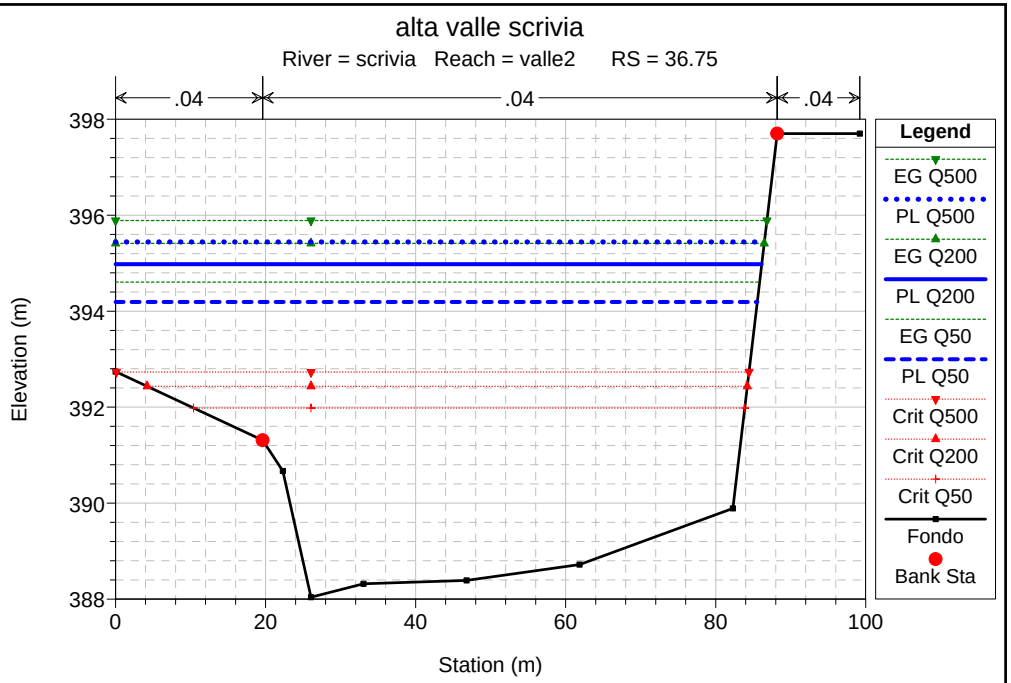

alta valle scrivia
River = scrivia Reach = valle2 RS = 37.09
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle2 RS = 37
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle2 RS = 36.9 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle2 RS = 36.9 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle2 RS = 36.8
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle2 RS = 36.75
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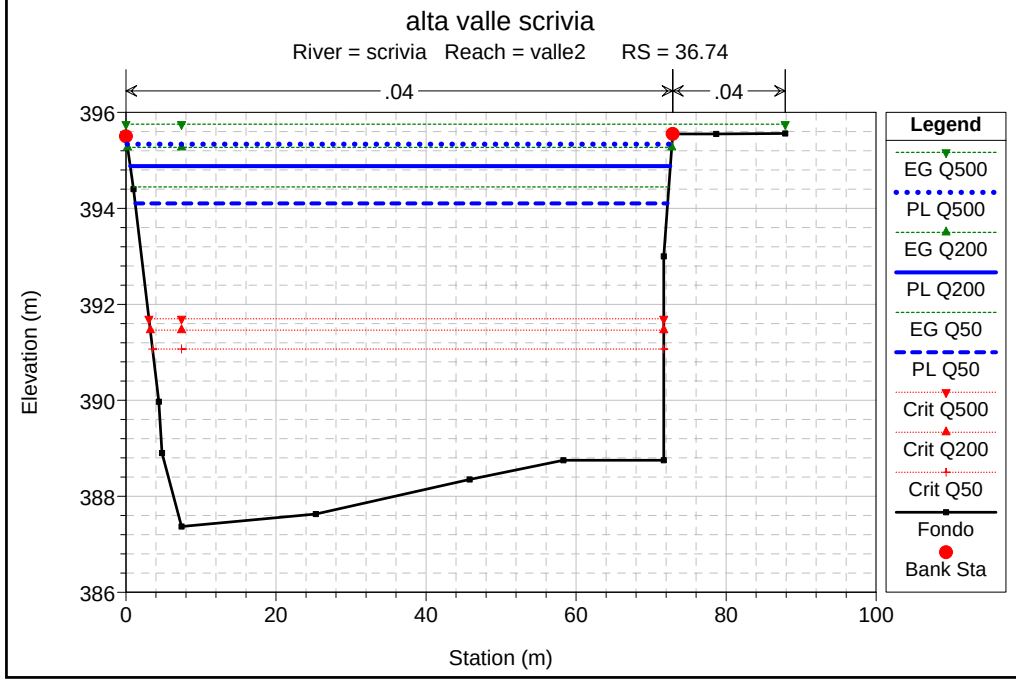
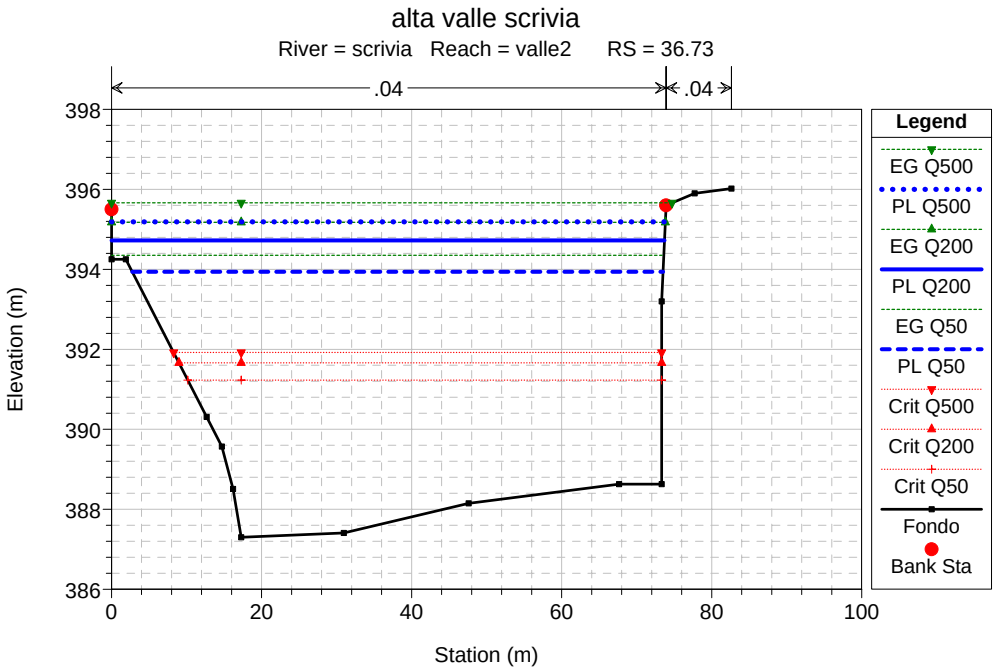
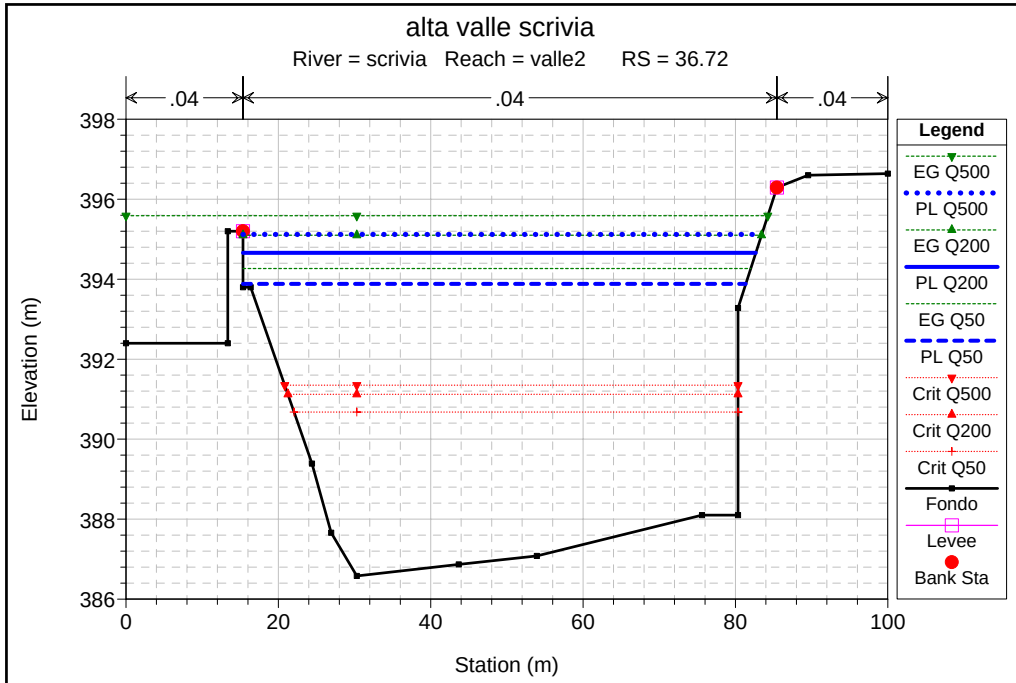
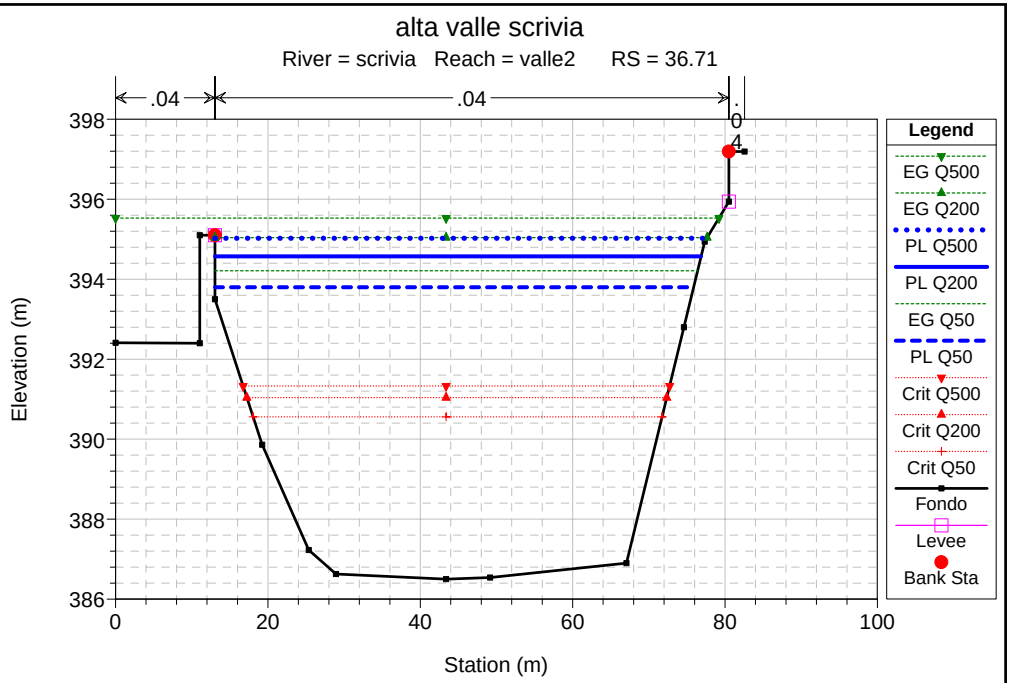
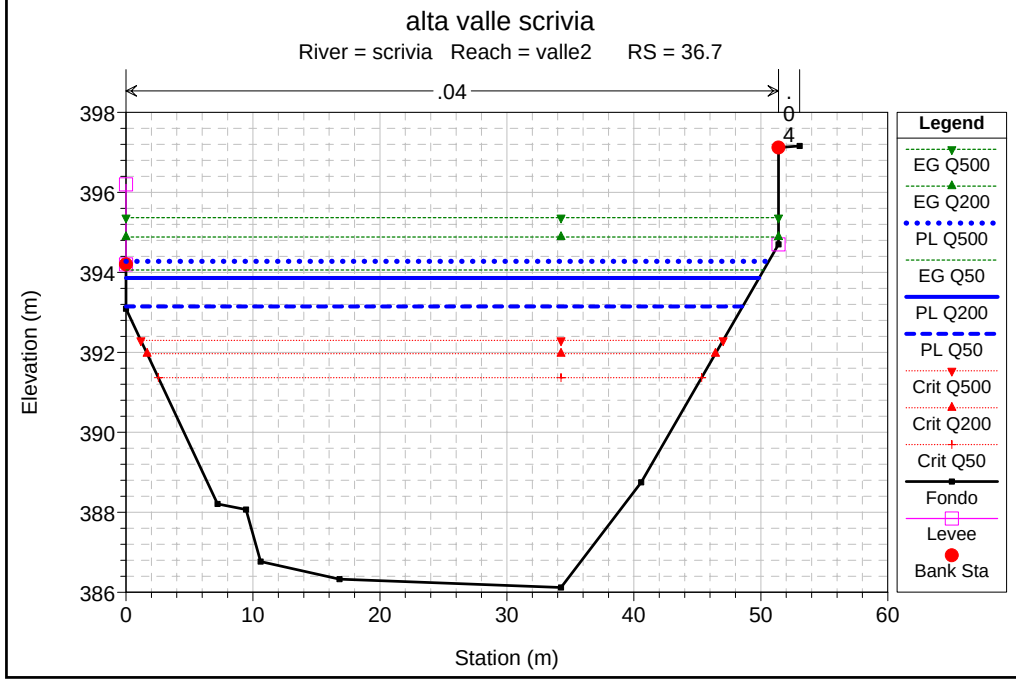
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

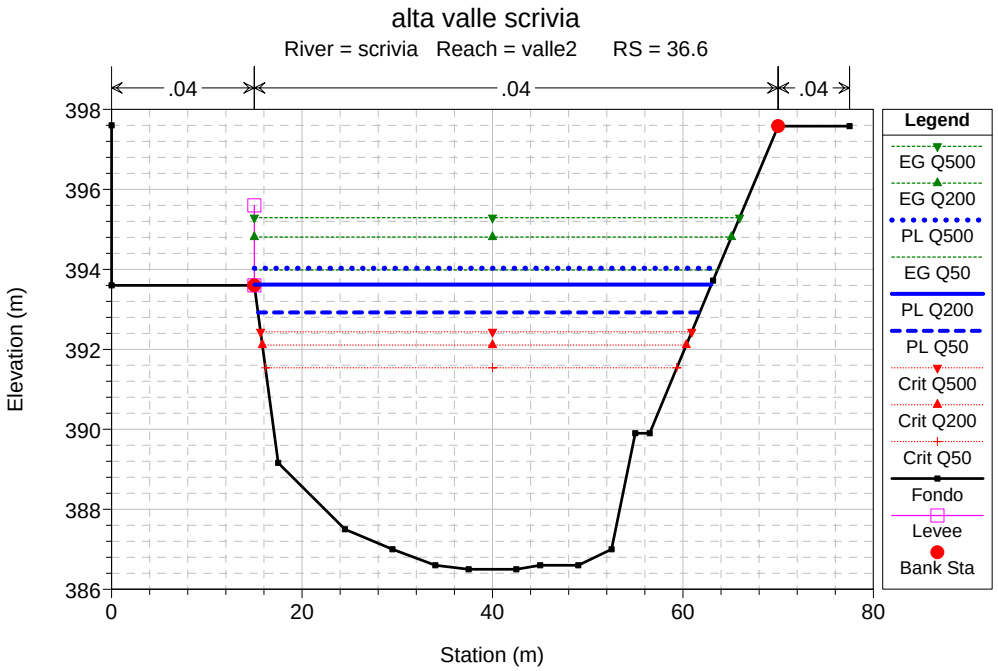

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.74
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

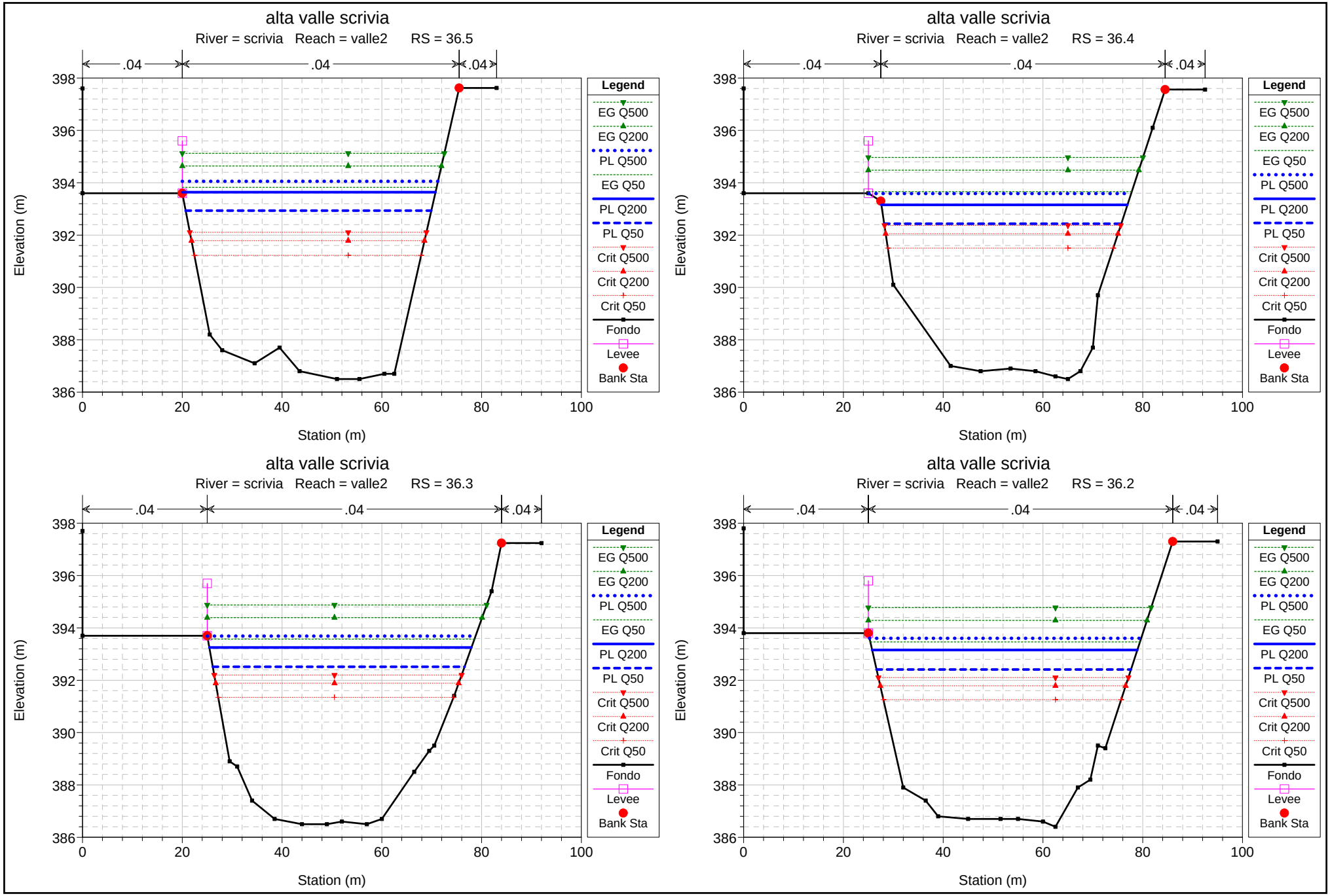

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.73
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

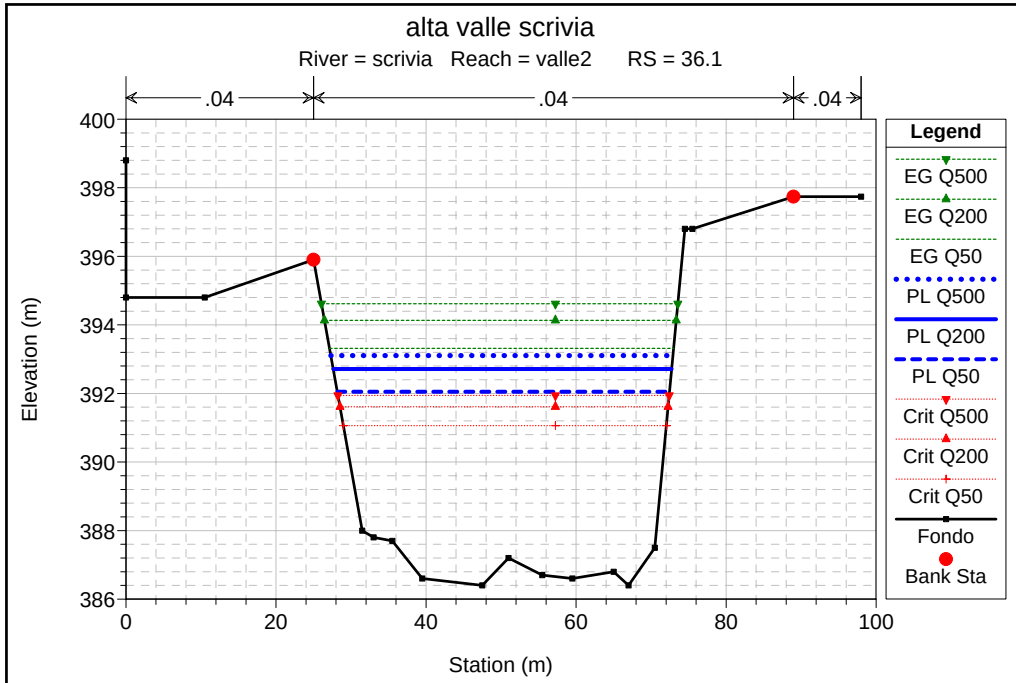

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.72
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

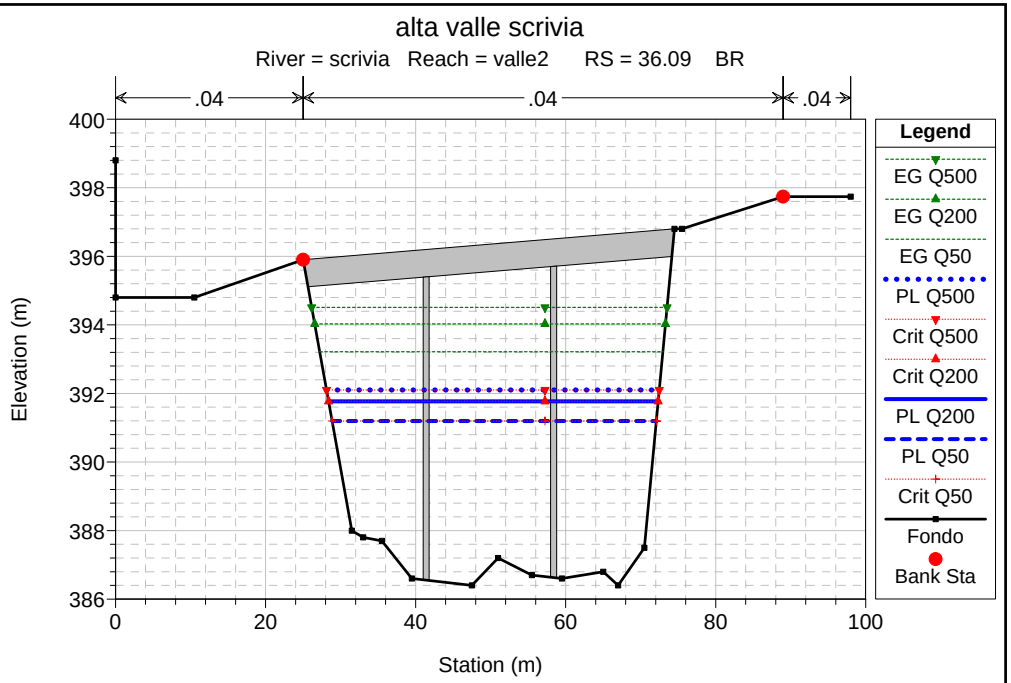

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.71
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

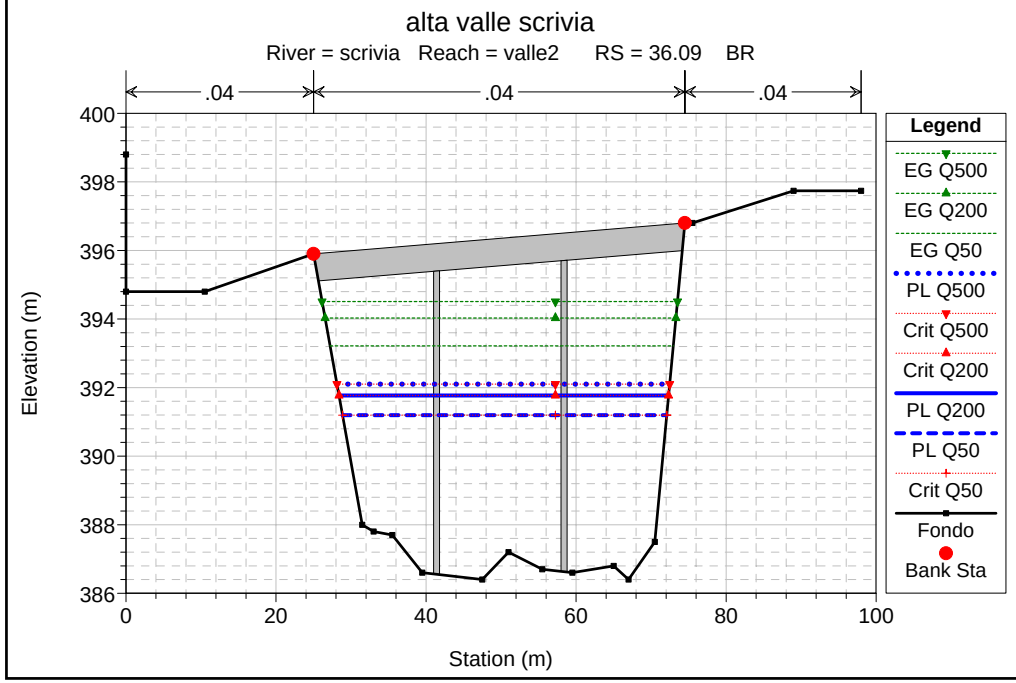

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.7
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

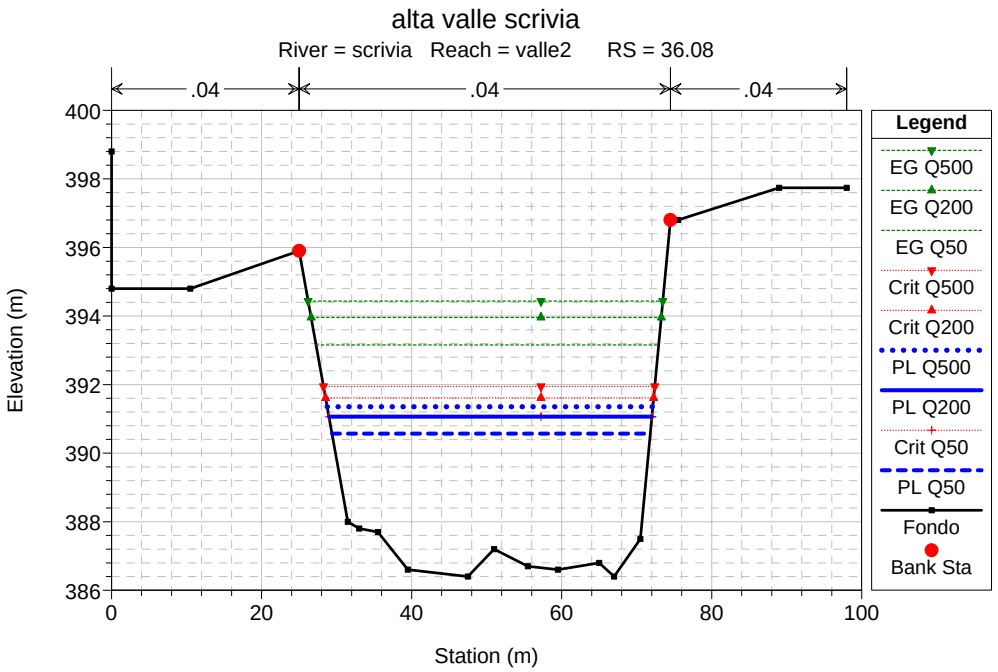

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.6
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

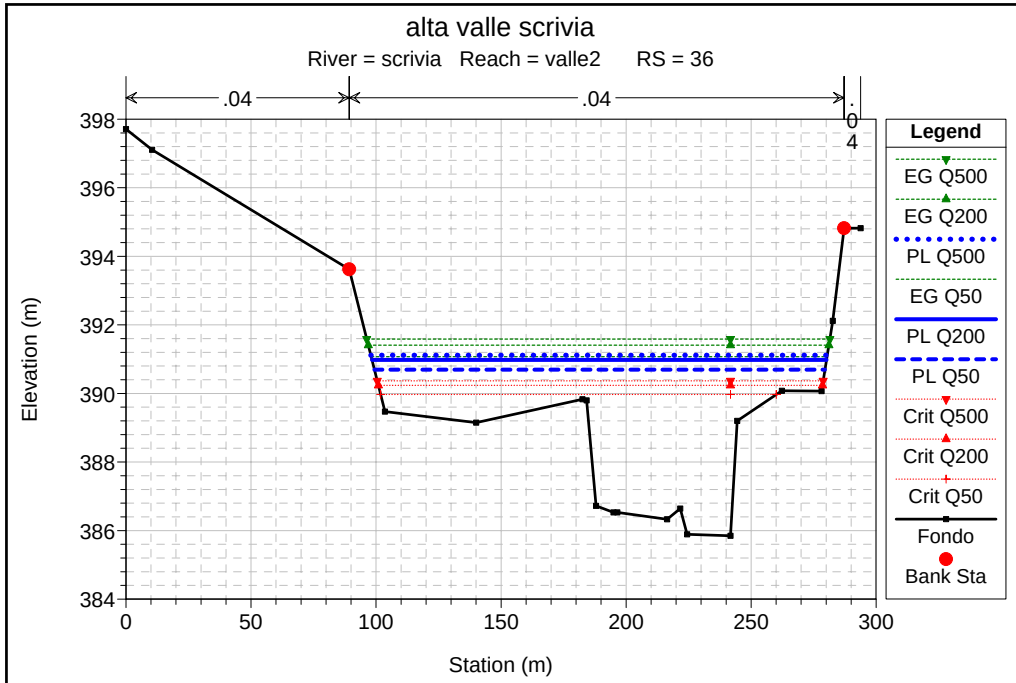

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta
alta valle scrivia
River = scrivia Reach = valle2 RS = 36.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta
alta valle scrivia
River = scrivia Reach = valle2 RS = 36.3
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta
alta valle scrivia
River = scrivia Reach = valle2 RS = 36.2
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

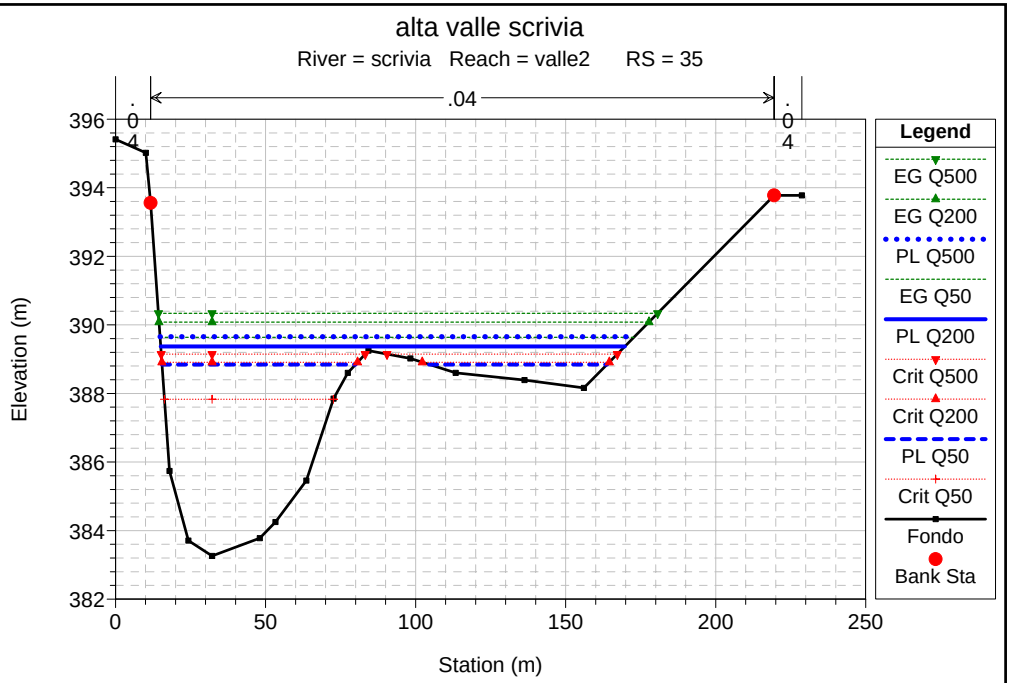

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.1
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

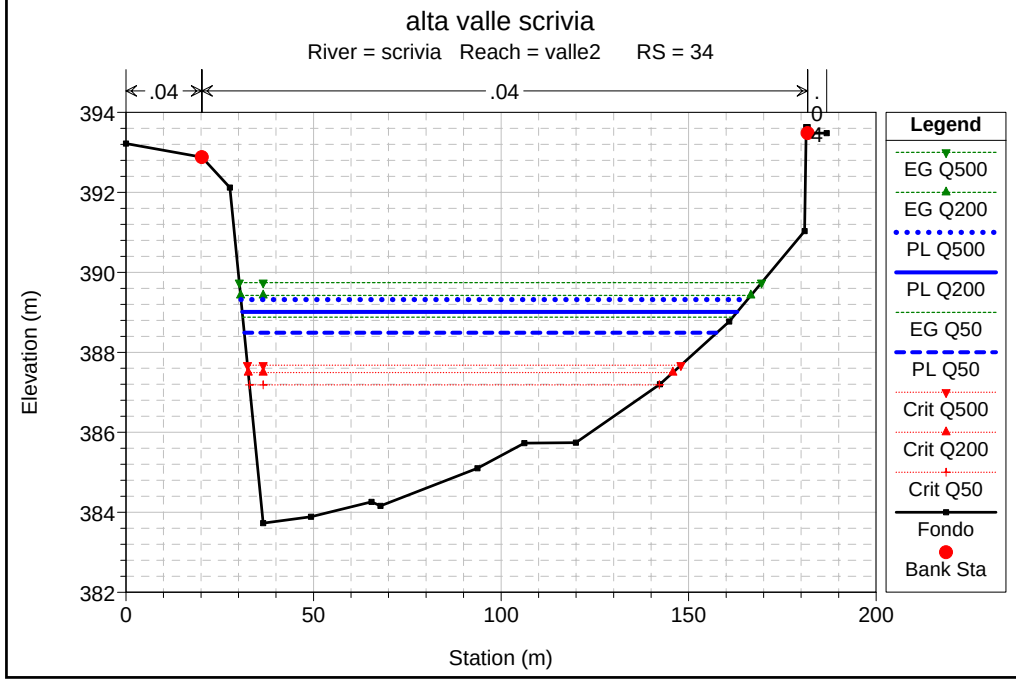

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.09 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

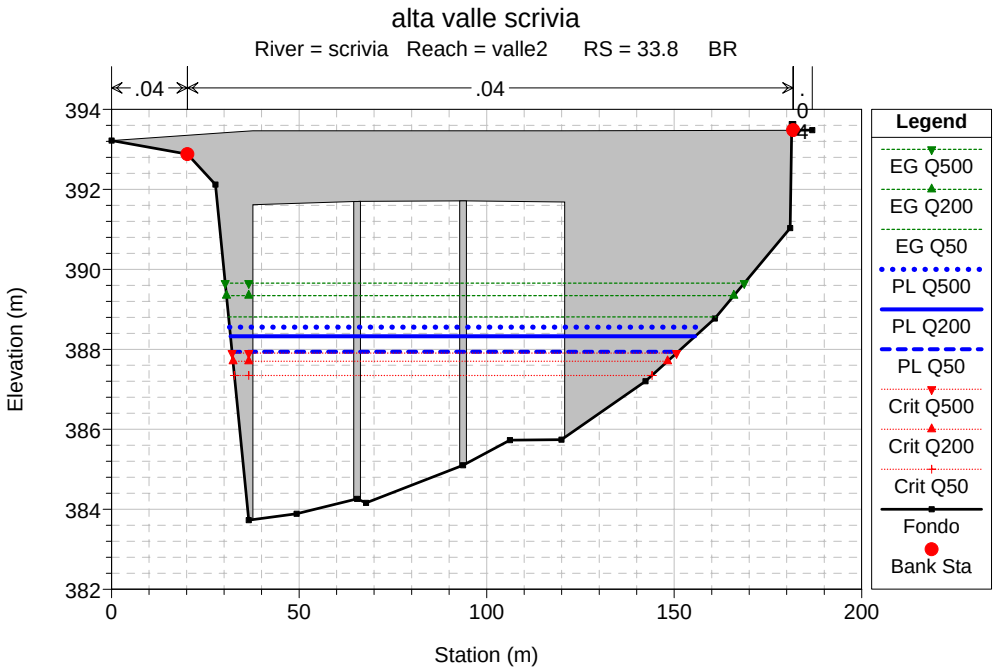

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.09 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

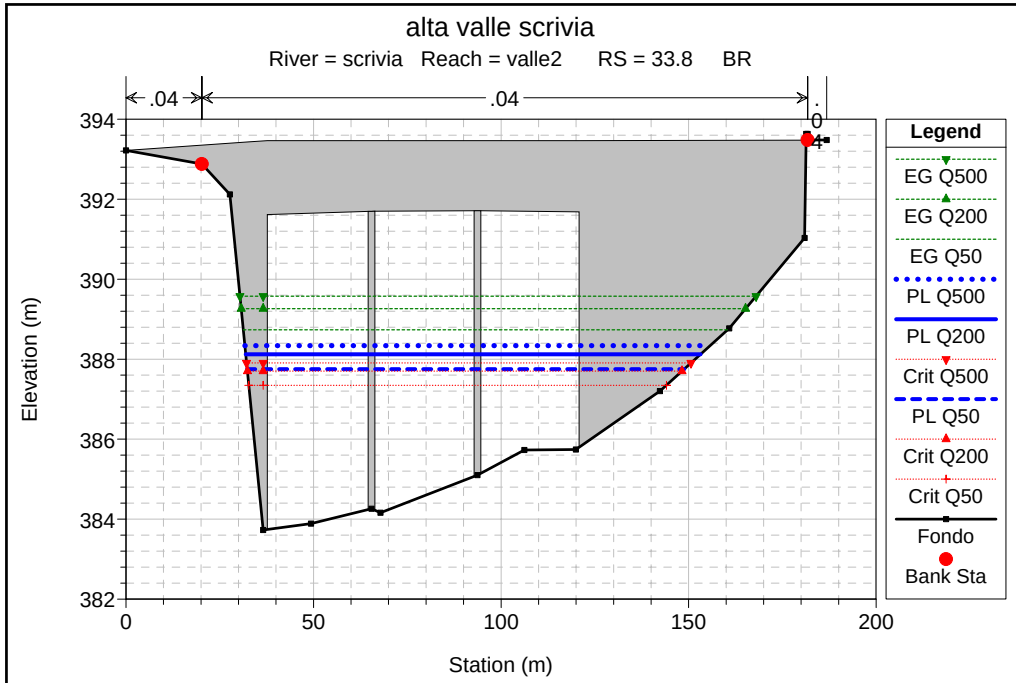

alta valle scrivia
River = scrivia Reach = valle2 RS = 36.08
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

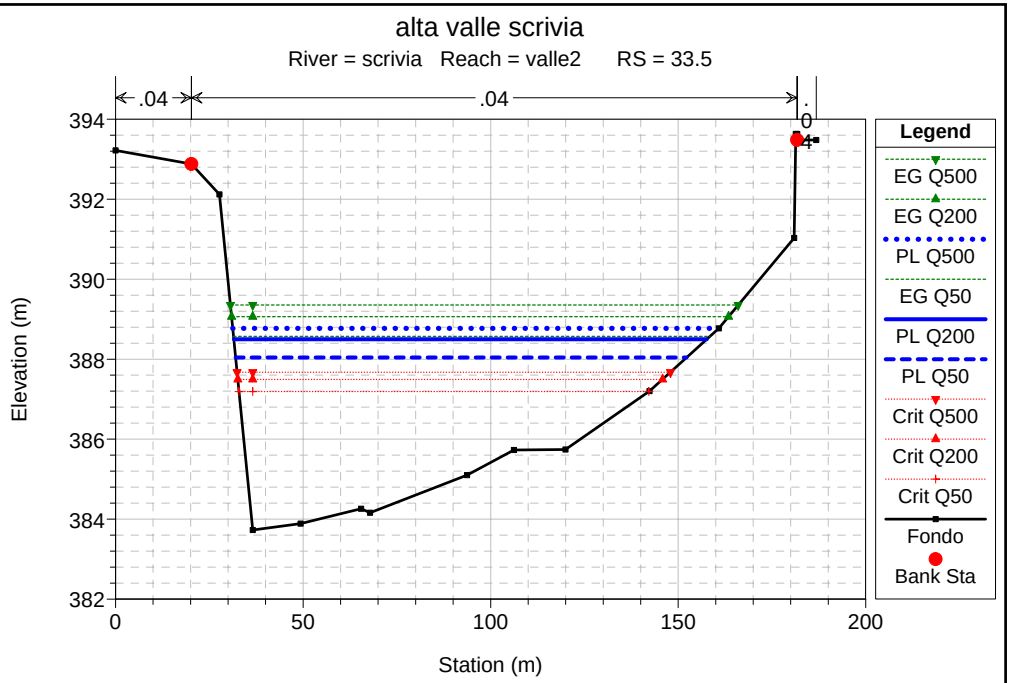

alta valle scrivia
River = scrivia Reach = valle2 RS = 36
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

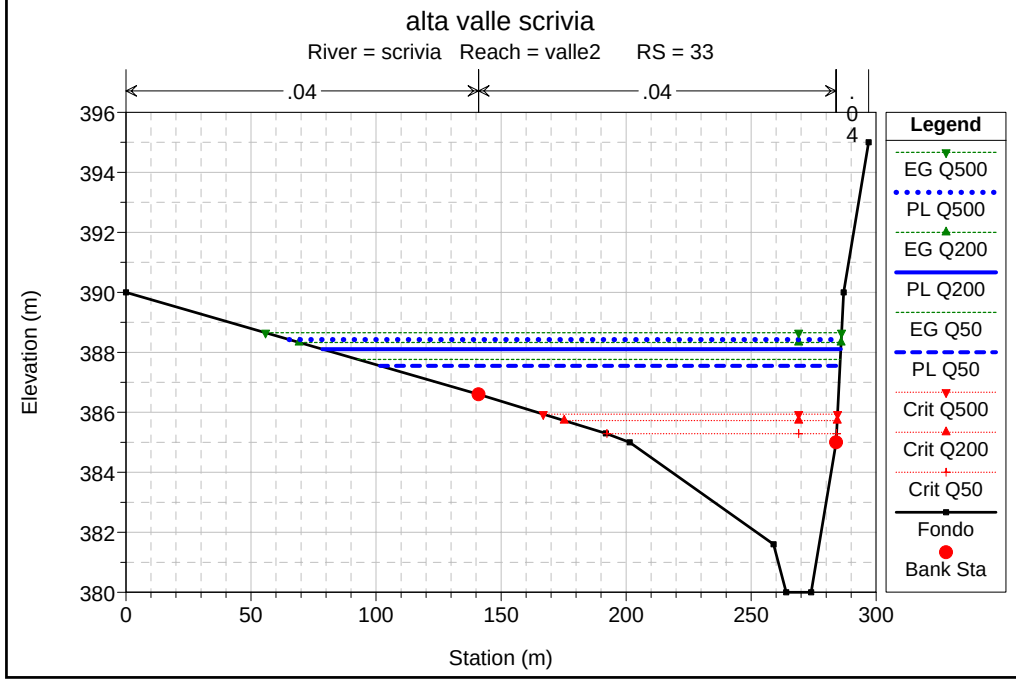

alta valle scrivia
River = scrivia Reach = valle2 RS = 35
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

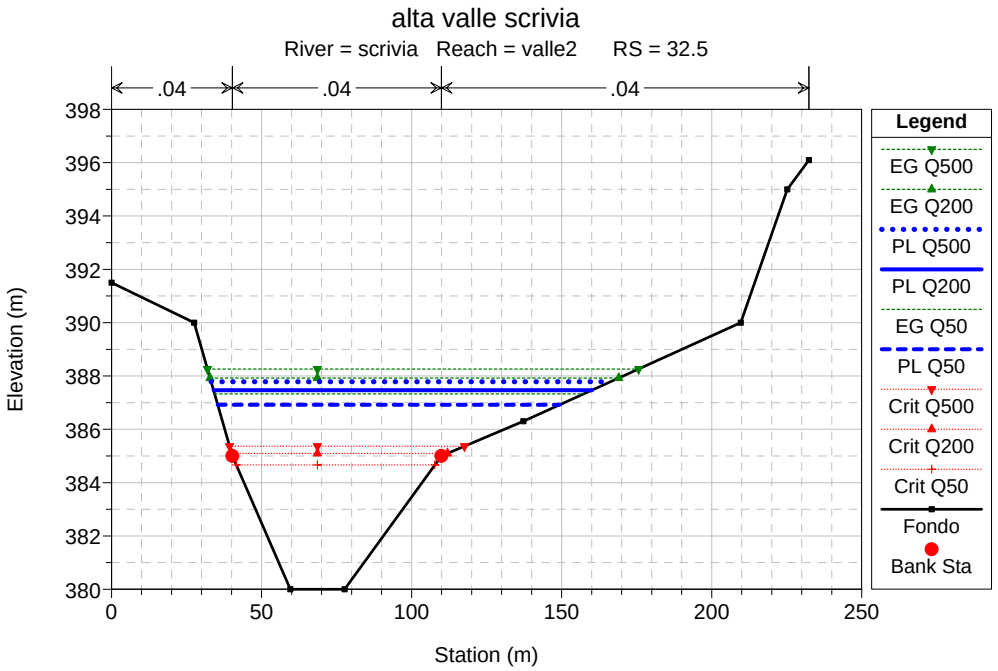

alta valle scrivia
River = scrivia Reach = valle2 RS = 34
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

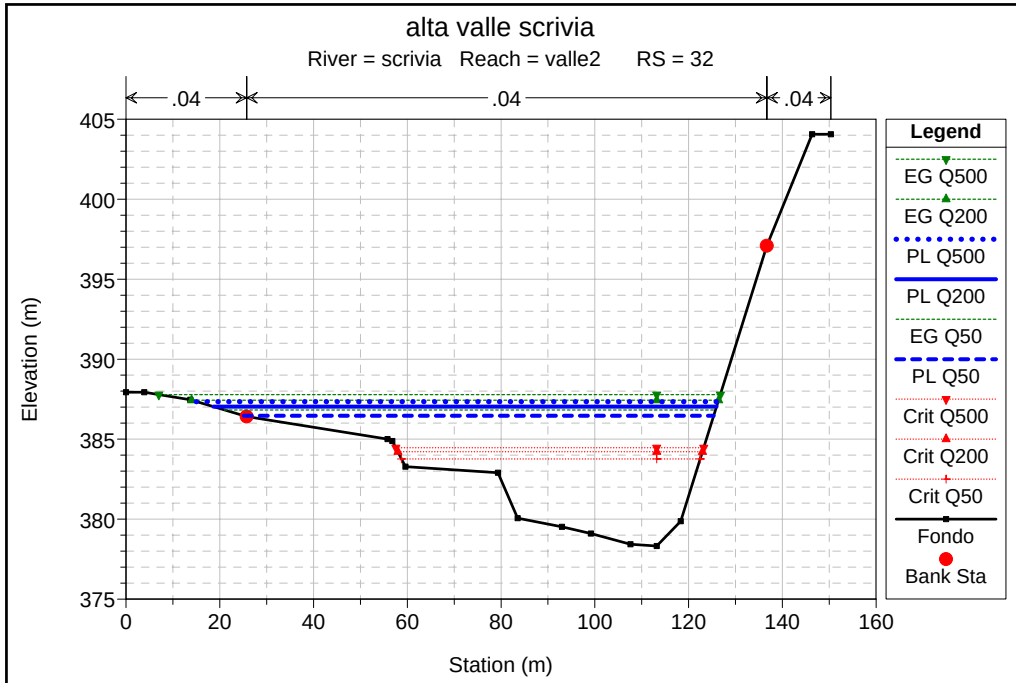

alta valle scrivia
River = scrivia Reach = valle2 RS = 33.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

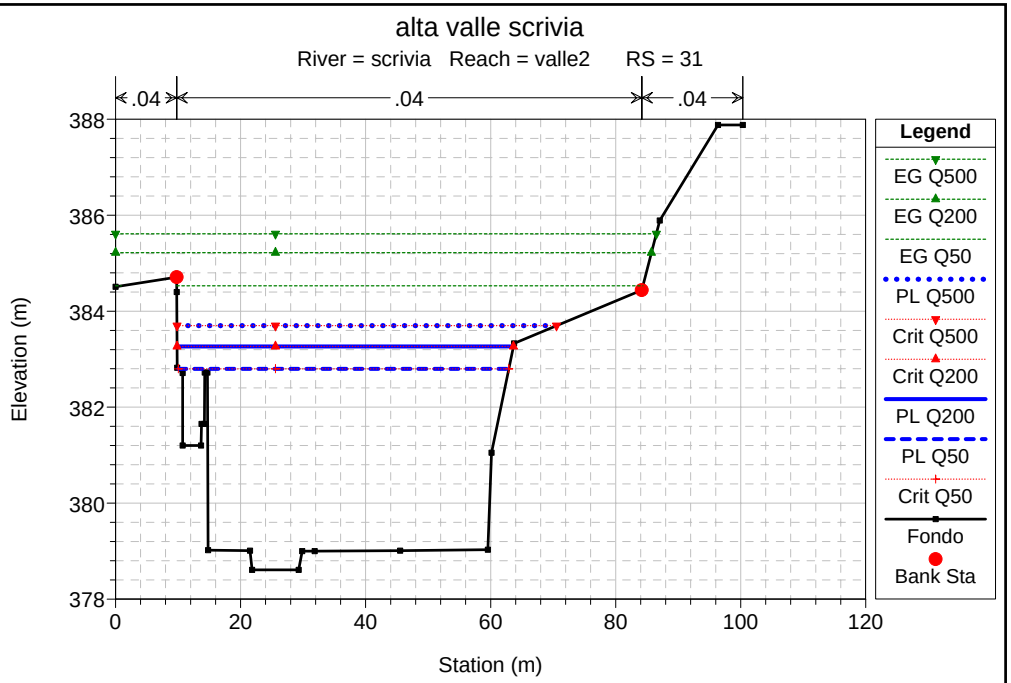

alta valle scrivia
River = scrivia Reach = valle2 RS = 33.8 BR
.04
.04
.
0
4
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

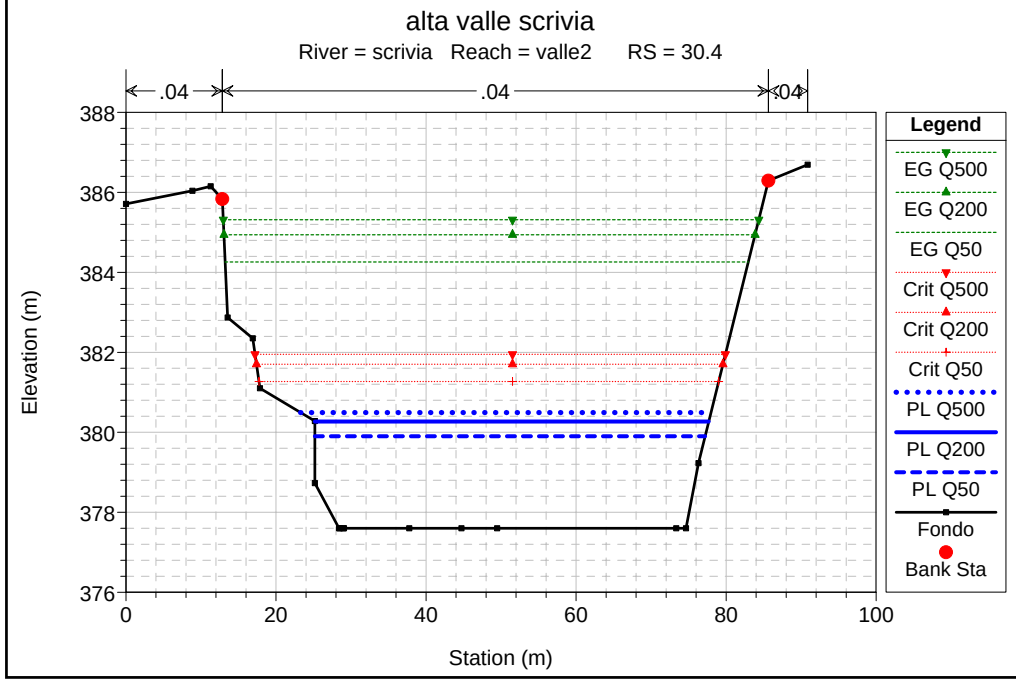

alta valle scrivia
River = scrivia Reach = valle2 RS = 33.5
.04
.04
.
0
4
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

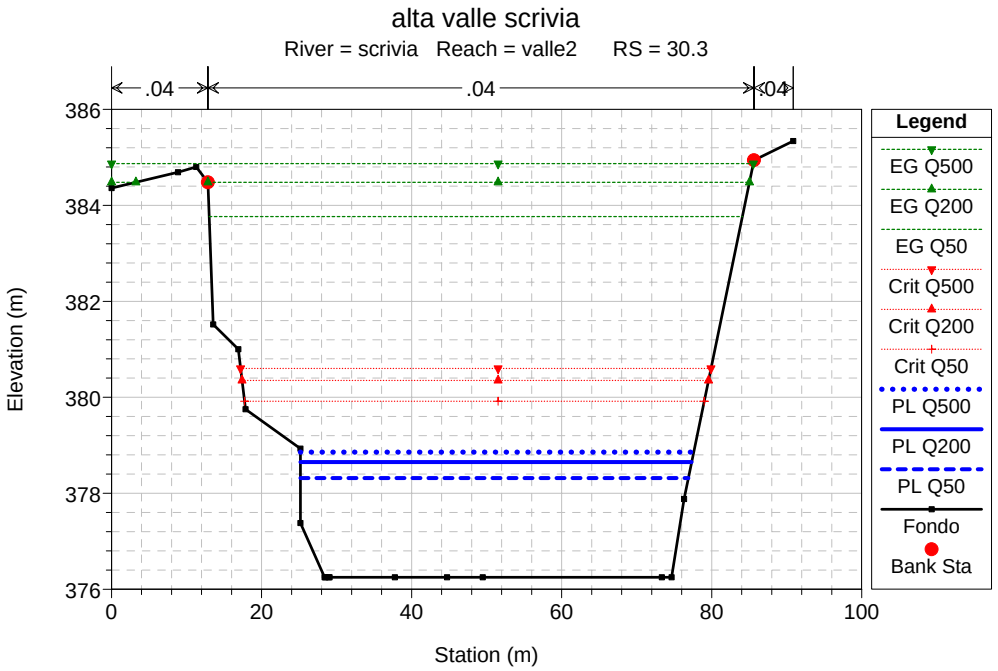

alta valle scrivia
River = scrivia Reach = valle2 RS = 33
.04
.04
.
0
4
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

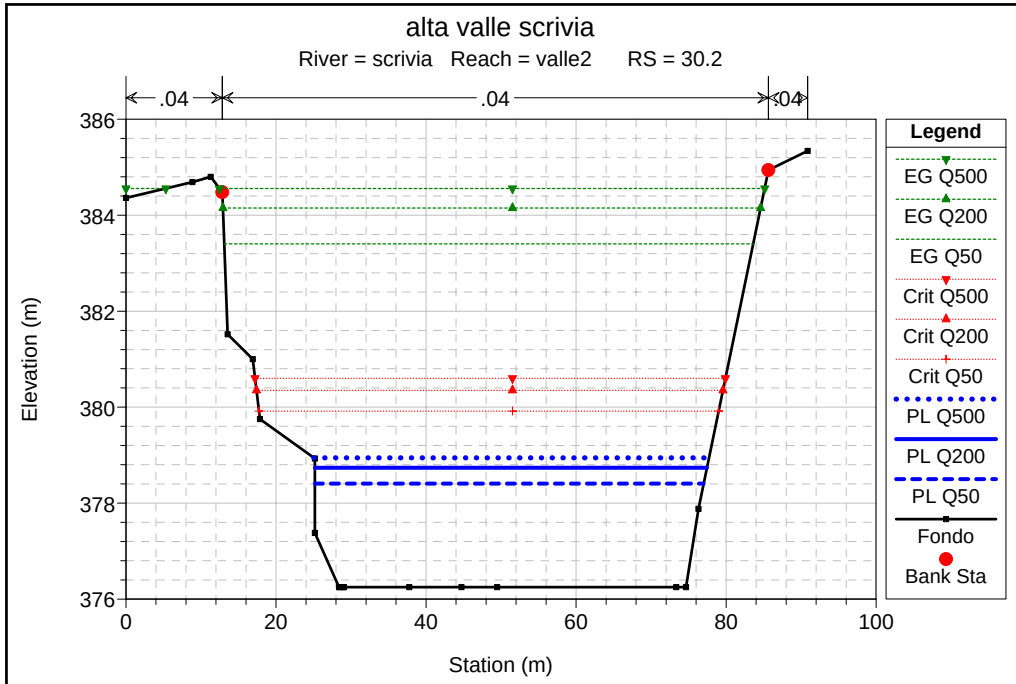

alta valle scrivia
River = scrivia Reach = valle2 RS = 32.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

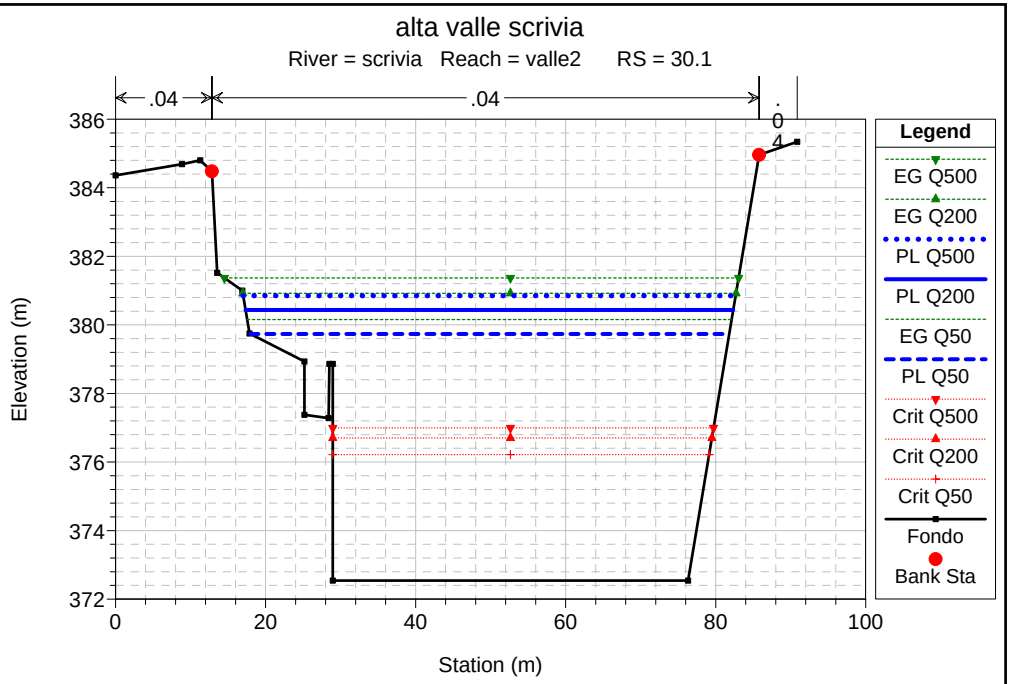

alta valle scrivia
River = scrivia Reach = valle2 RS = 32
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

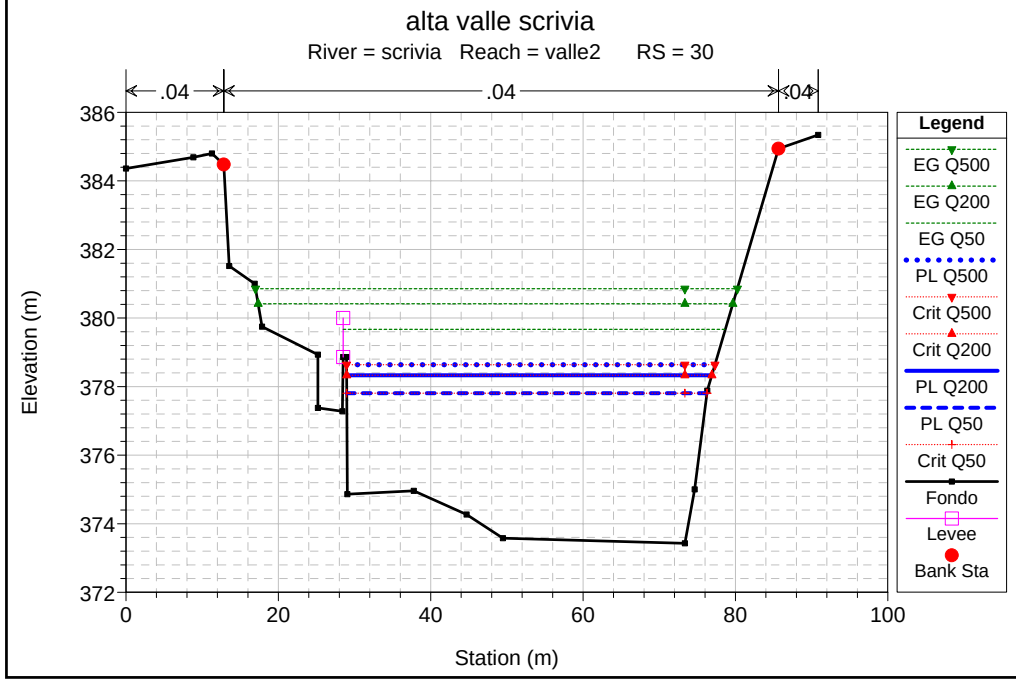

alta valle scrivia
River = scrivia Reach = valle2 RS = 31
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

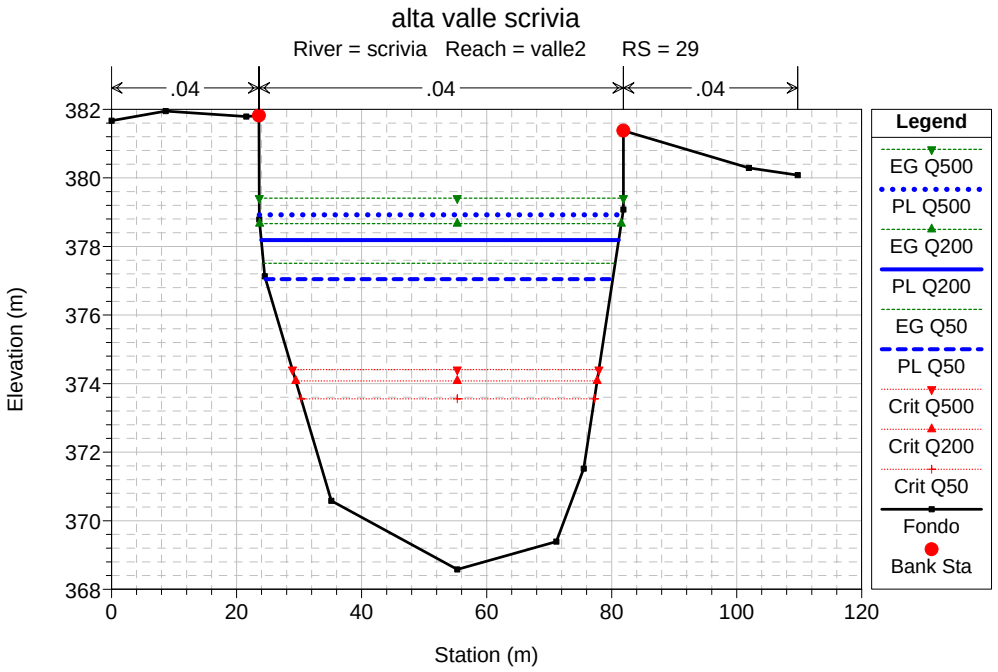

alta valle scrivia
River = scrivia Reach = valle2 RS = 30.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

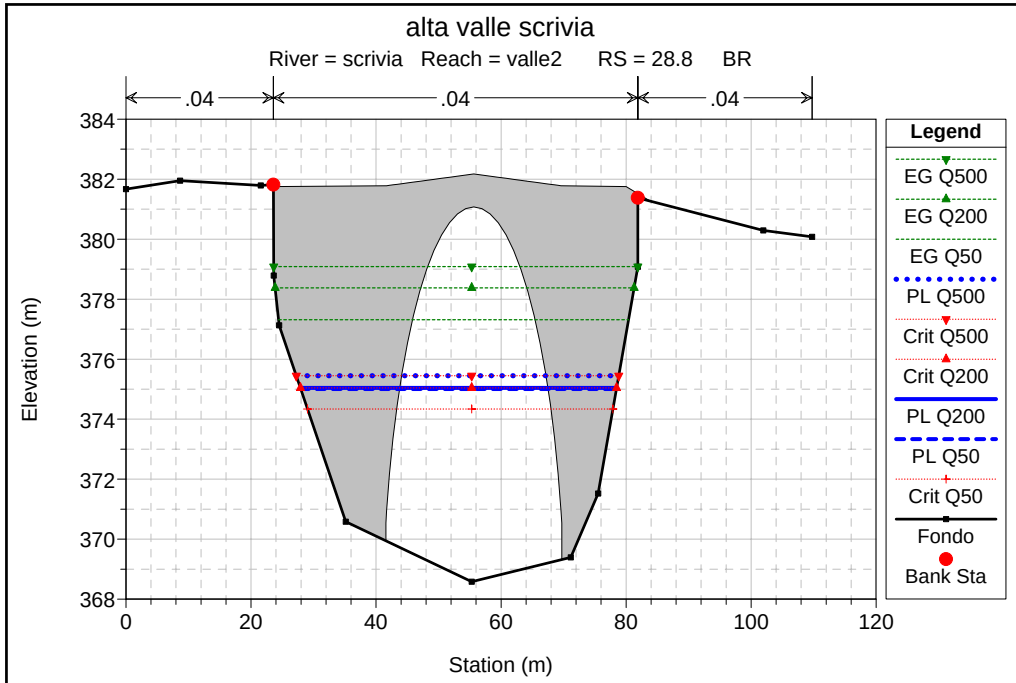

alta valle scrivia
River = scrivia Reach = valle2 RS = 30.3
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

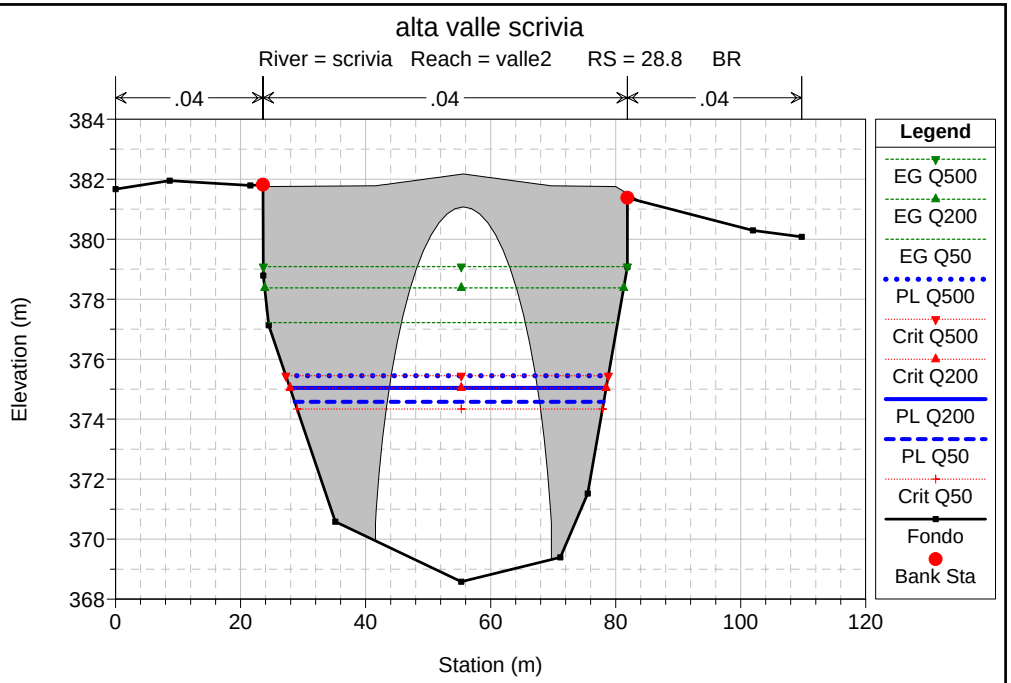

alta valle scrivia
River = scrivia Reach = valle2 RS = 30.2
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

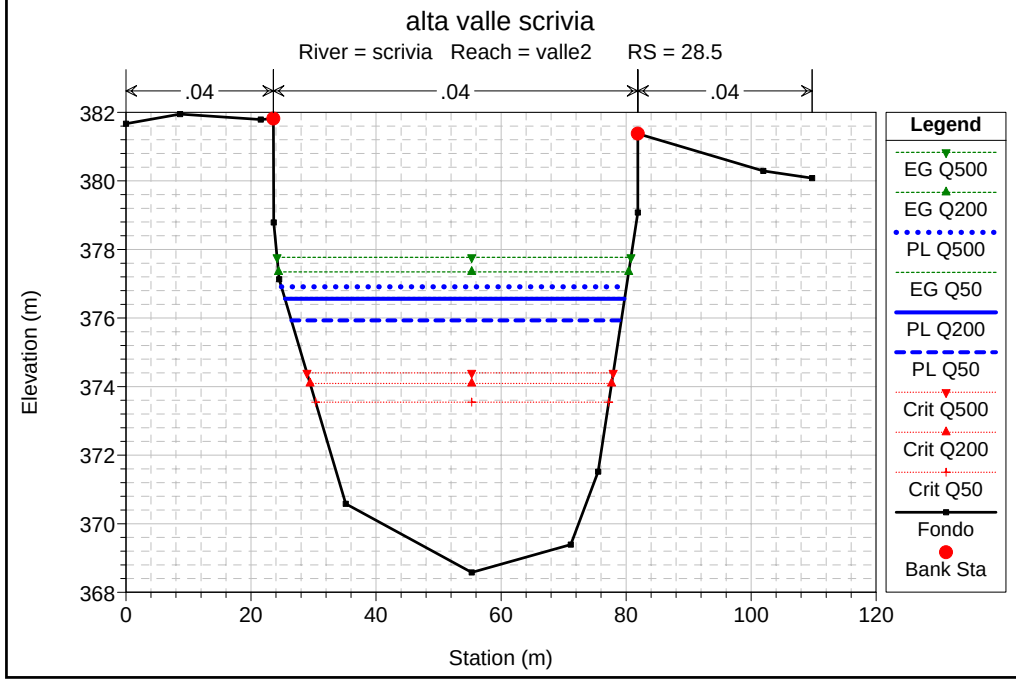

alta valle scrivia
River = scrivia Reach = valle2 RS = 30.1
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

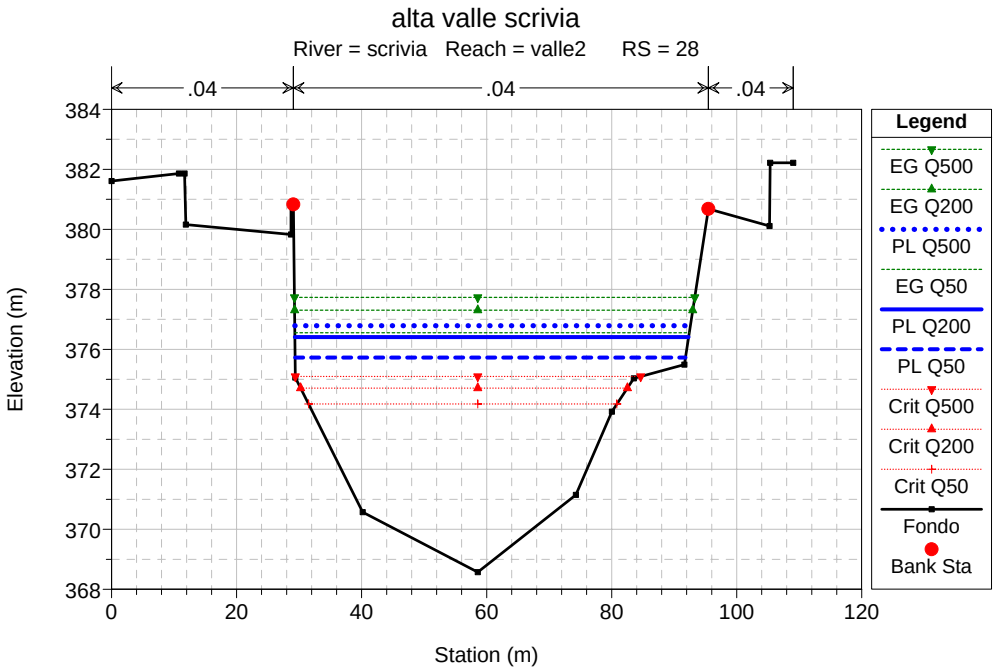

alta valle scrivia
River = scrivia Reach = valle2 RS = 30
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Levee
Bank Sta

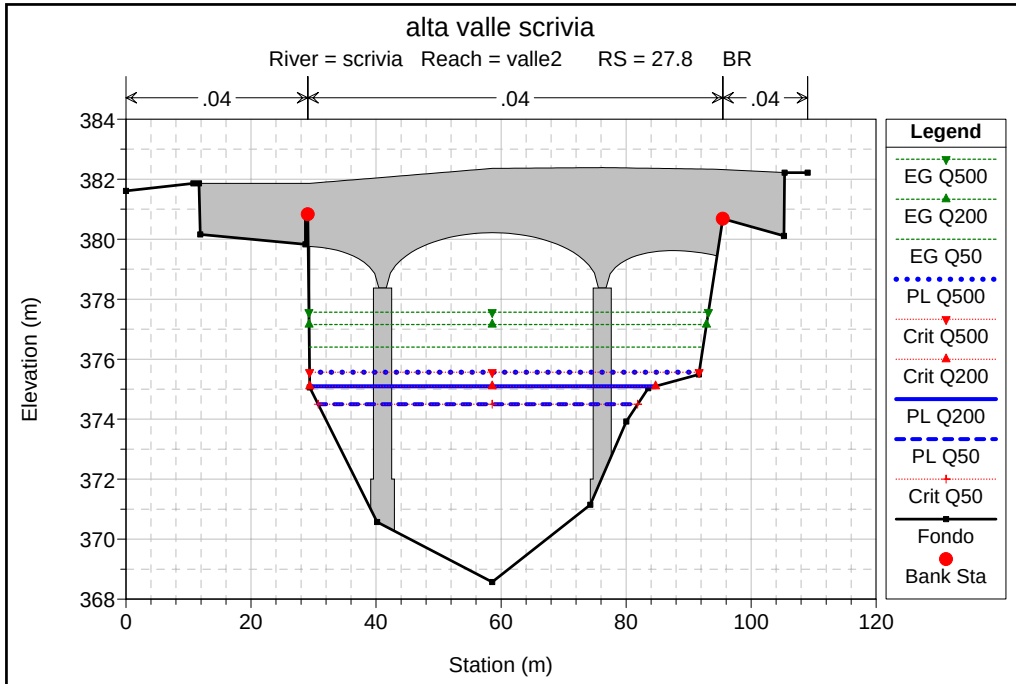

alta valle scrivia
River = scrivia Reach = valle2 RS = 29
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

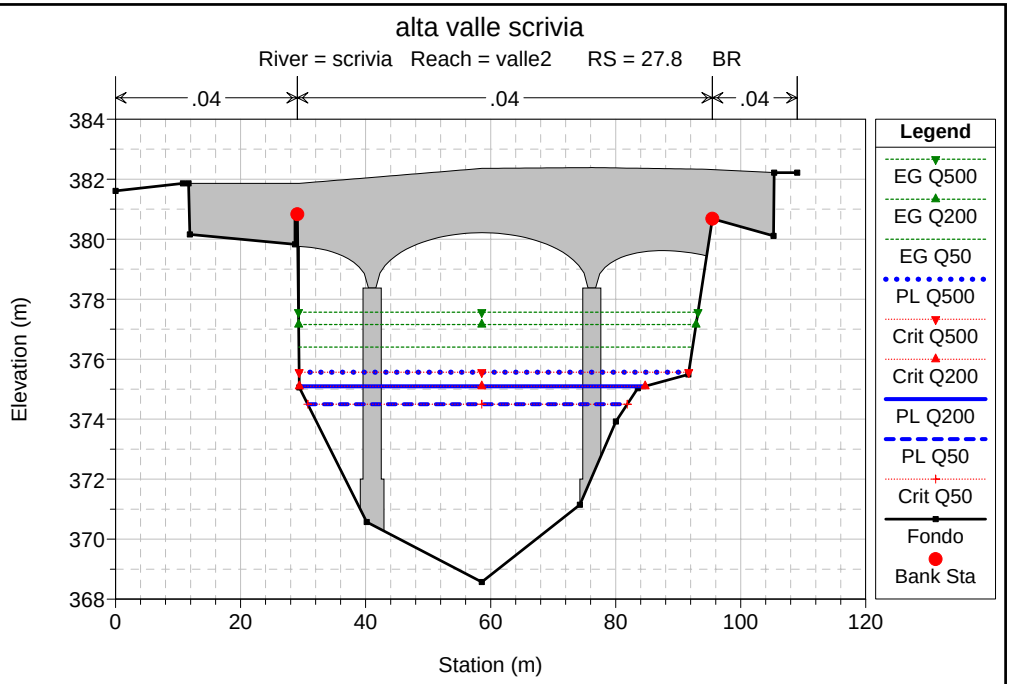

alta valle scrivia
River = scrivia Reach = valle2 RS = 28.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

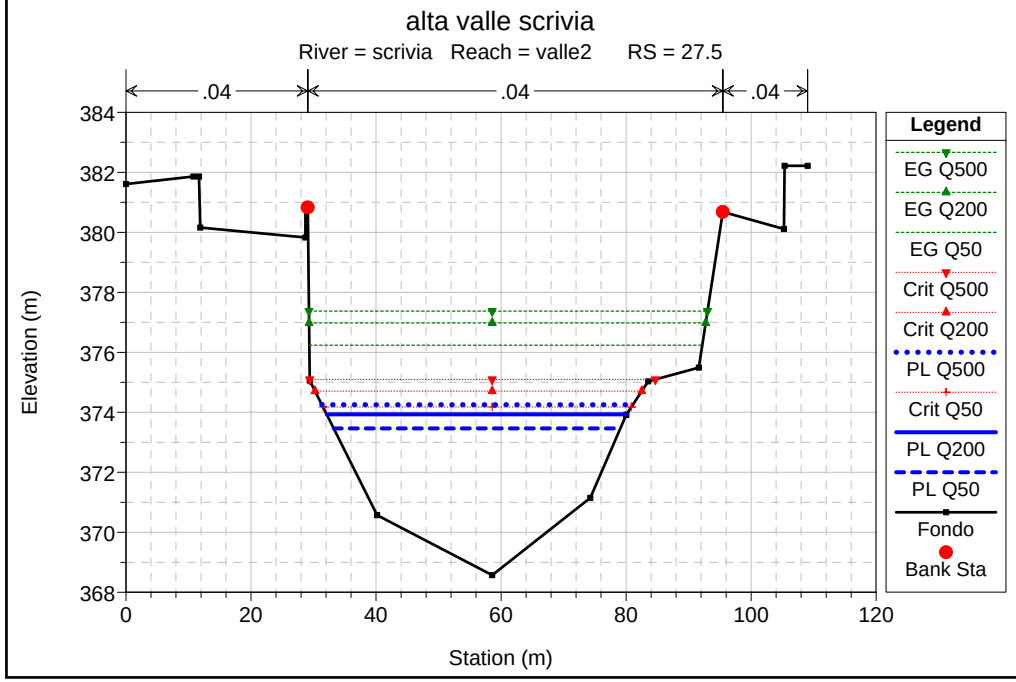

alta valle scrivia
River = scrivia Reach = valle2 RS = 28.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

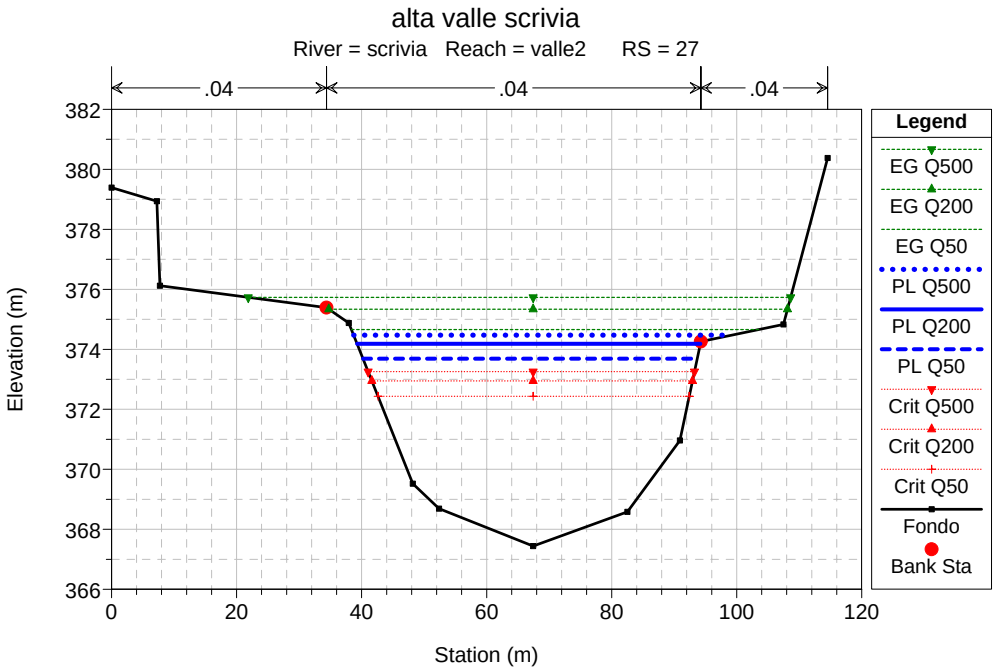

alta valle scrivia
River = scrivia Reach = valle2 RS = 28.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

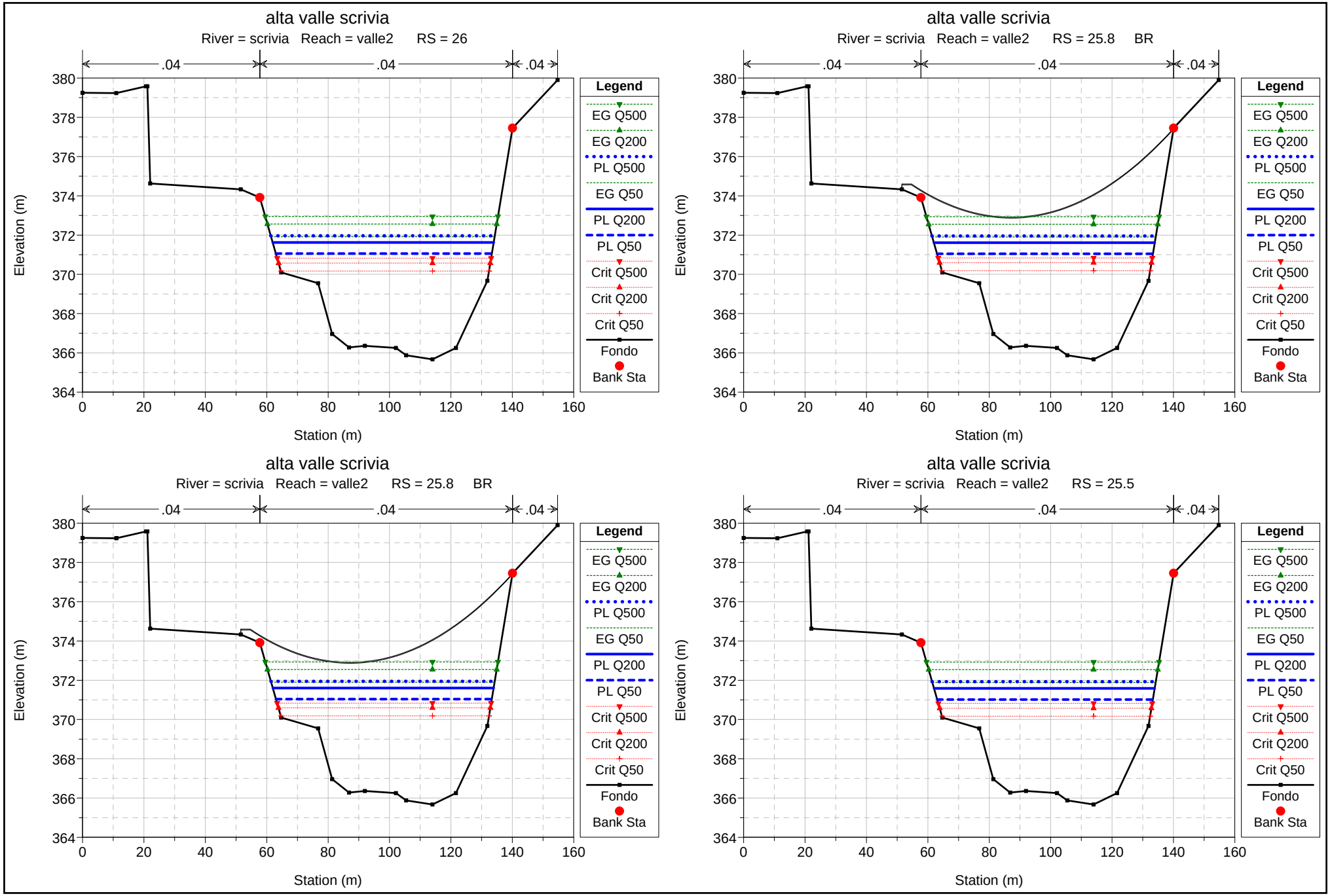

alta valle scrivia
River = scrivia Reach = valle2 RS = 28
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

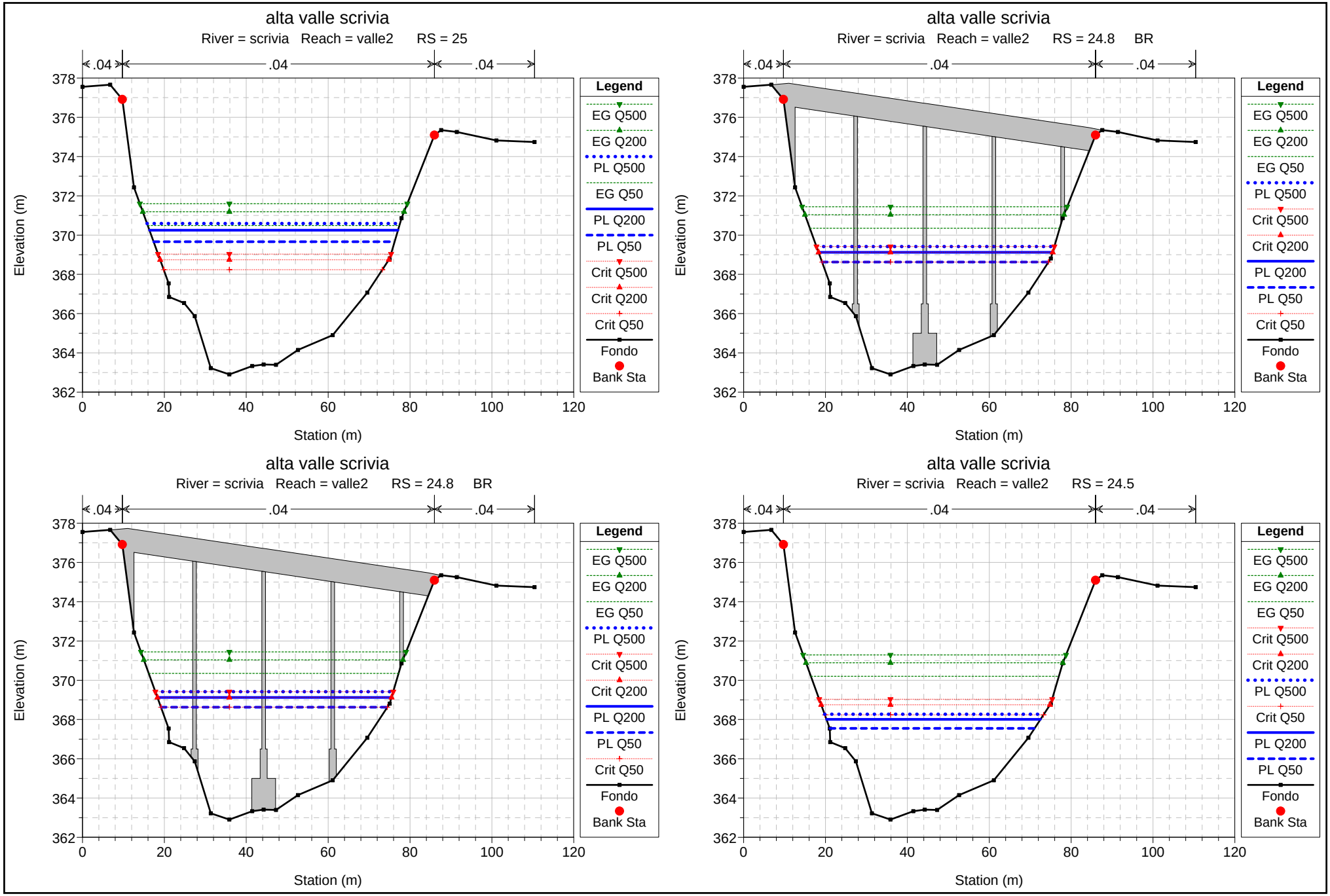

alta valle scrivia
River = scrivia Reach = valle2 RS = 27.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

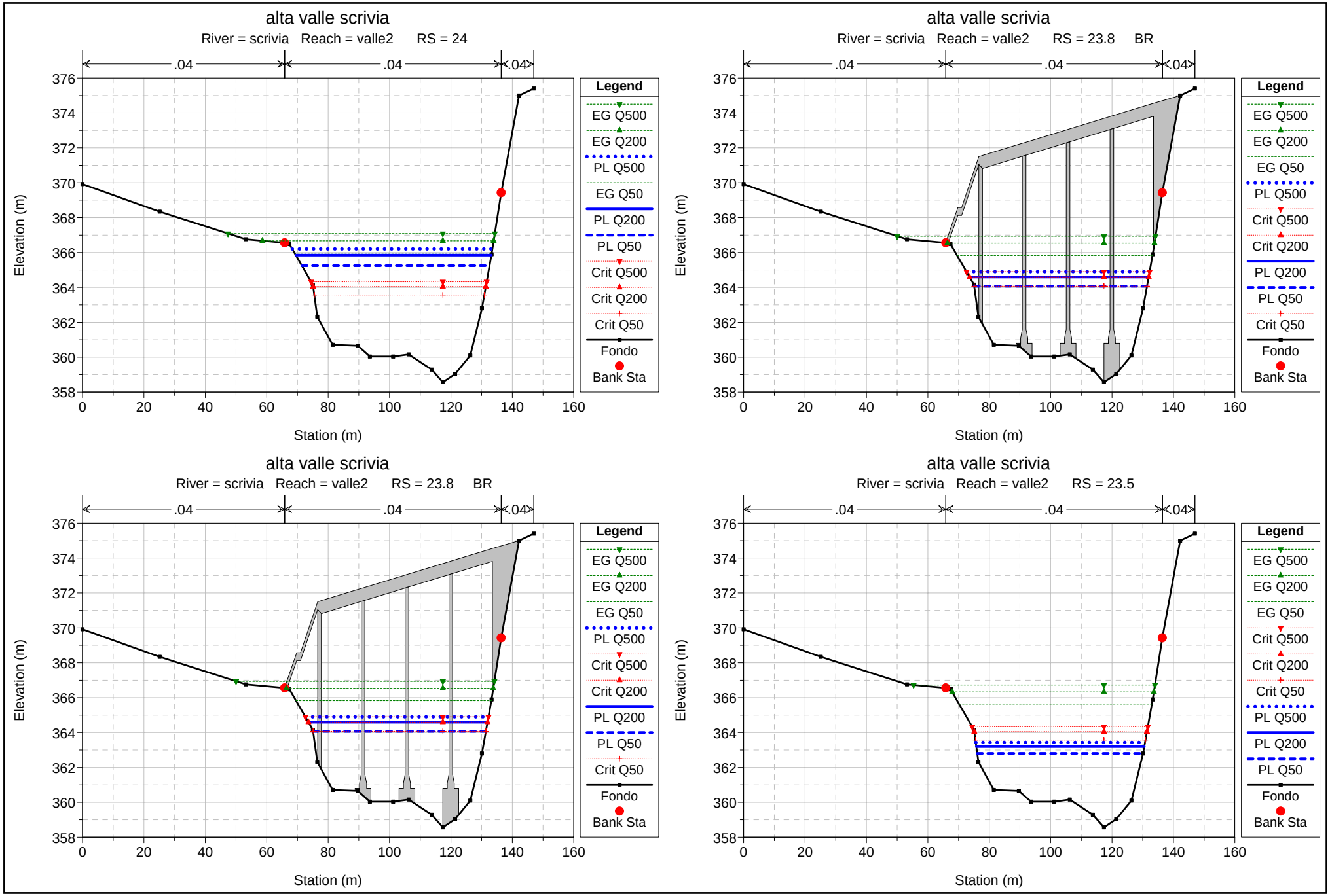

alta valle scrivia
River = scrivia Reach = valle2 RS = 27.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

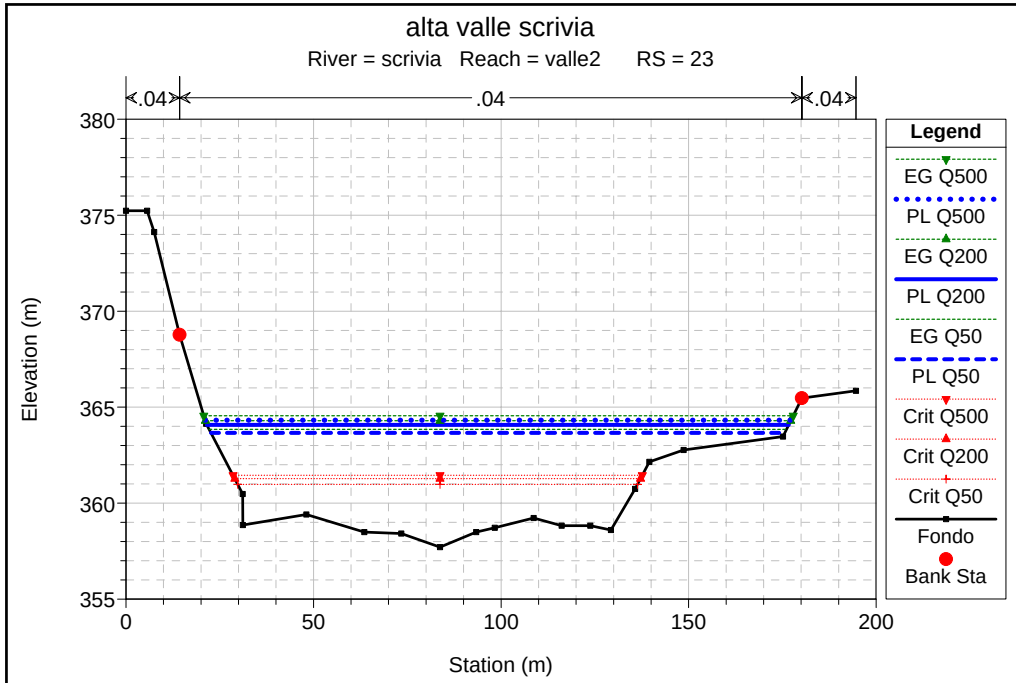

alta valle scrivia
River = scrivia Reach = valle2 RS = 27.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

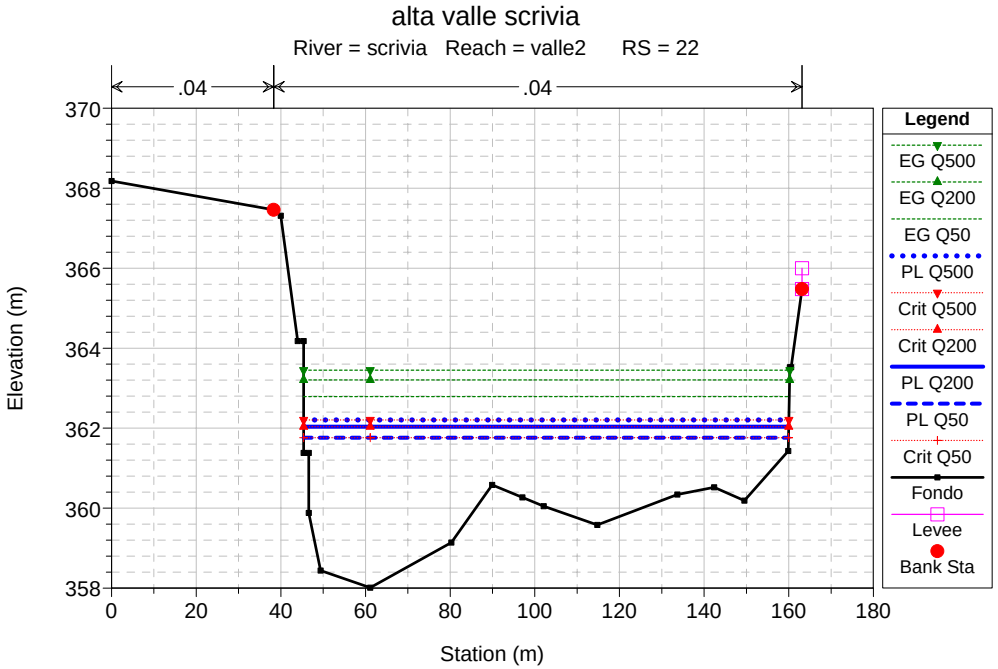

alta valle scrivia
River = scrivia Reach = valle2 RS = 27
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

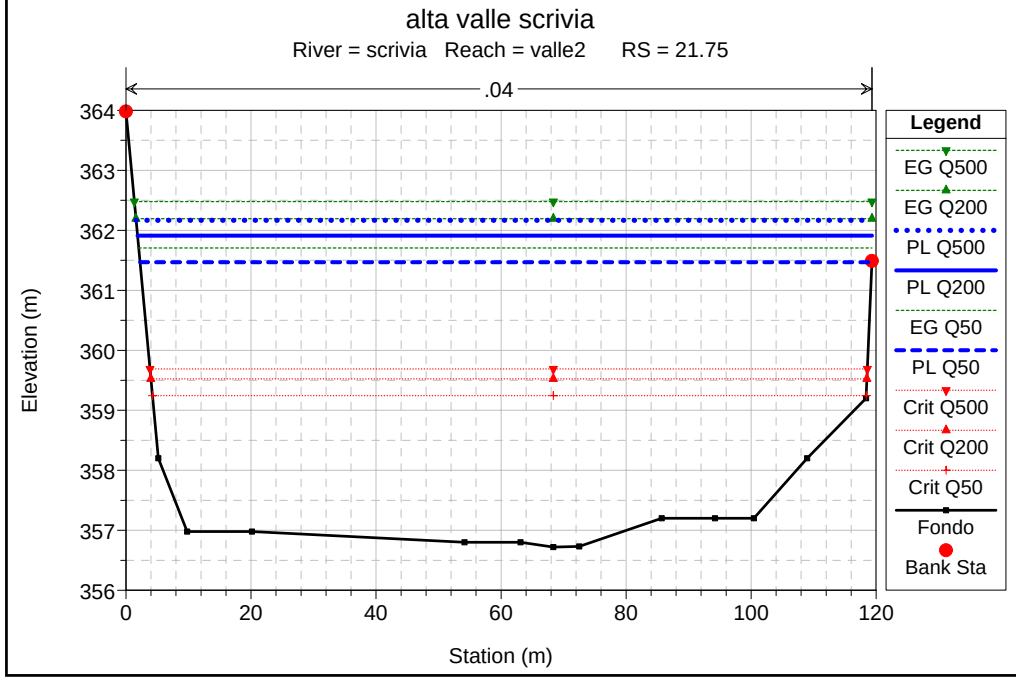

alta valle scrivia
River = scrivia Reach = valle2 RS = 26
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle2 RS = 25.8 BR
alta valle scrivia
River = scrivia Reach = valle2 RS = 25.8 BR
alta valle scrivia
River = scrivia Reach = valle2 RS = 25.5

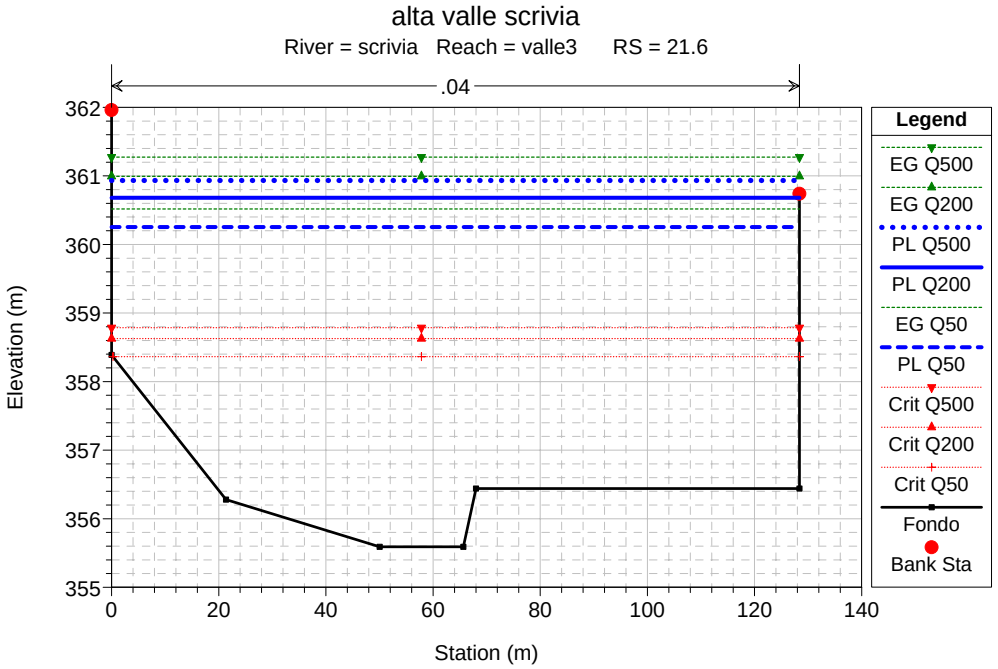

alta valle scrivia
River = scrivia Reach = valle2 RS = 25
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle2 RS = 24.8 BR
alta valle scrivia
River = scrivia Reach = valle2 RS = 24.8 BR
alta valle scrivia
River = scrivia Reach = valle2 RS = 24.5

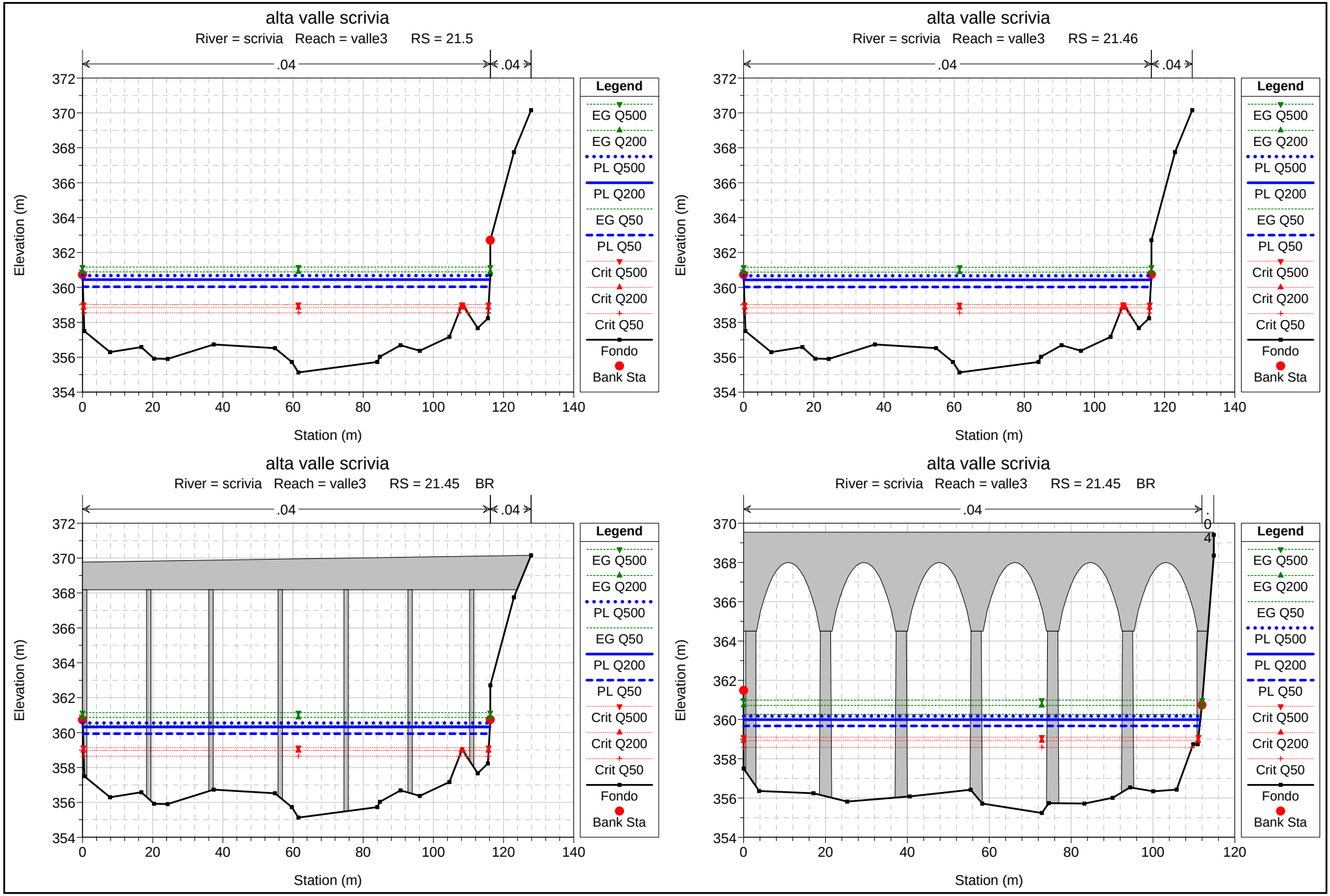

alta valle scrivia
River = scrivia Reach = valle2 RS = 24
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle2 RS = 23.8 BR
alta valle scrivia
River = scrivia Reach = valle2 RS = 23.8 BR
alta valle scrivia
River = scrivia Reach = valle2 RS = 23.5

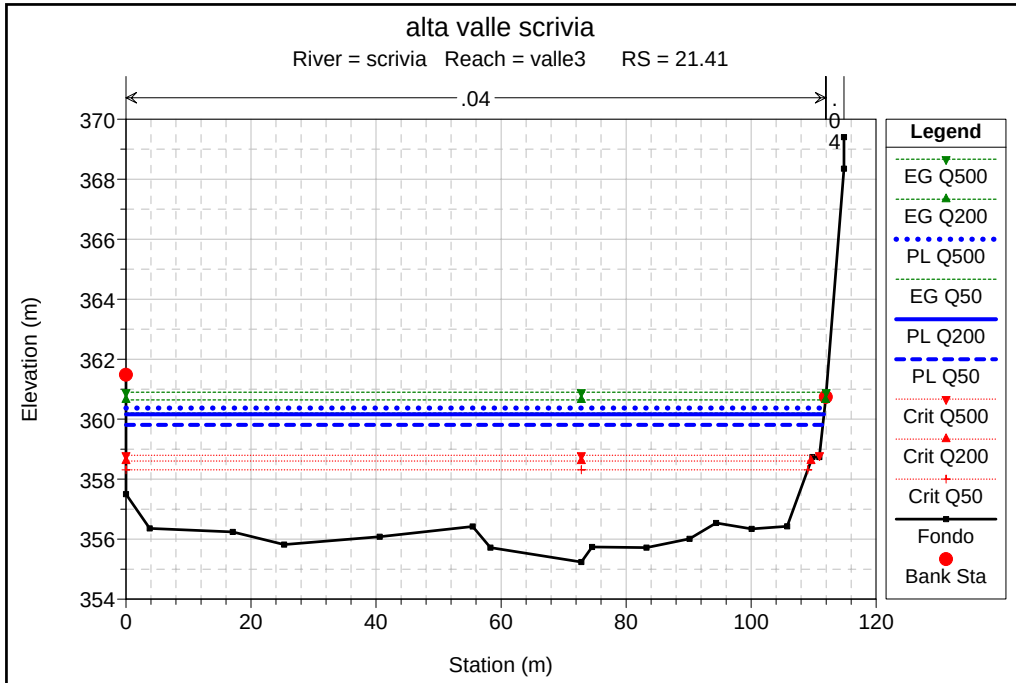

alta valle scrivia
River = scrivia Reach = valle2 RS = 23
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

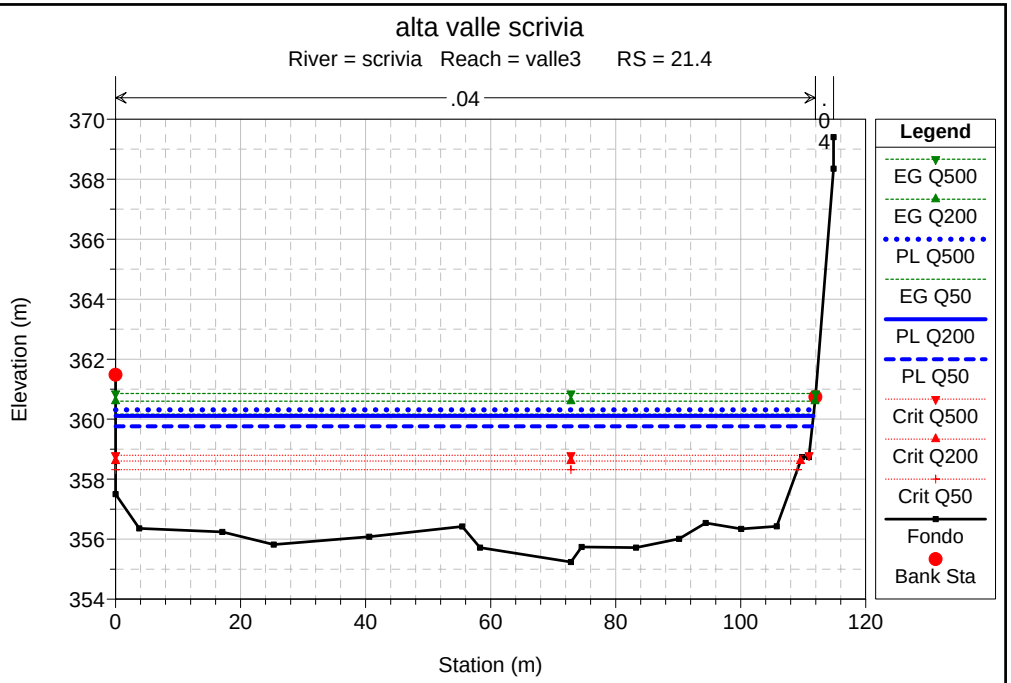

alta valle scrivia
River = scrivia Reach = valle2 RS = 22
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Levee
Bank Sta

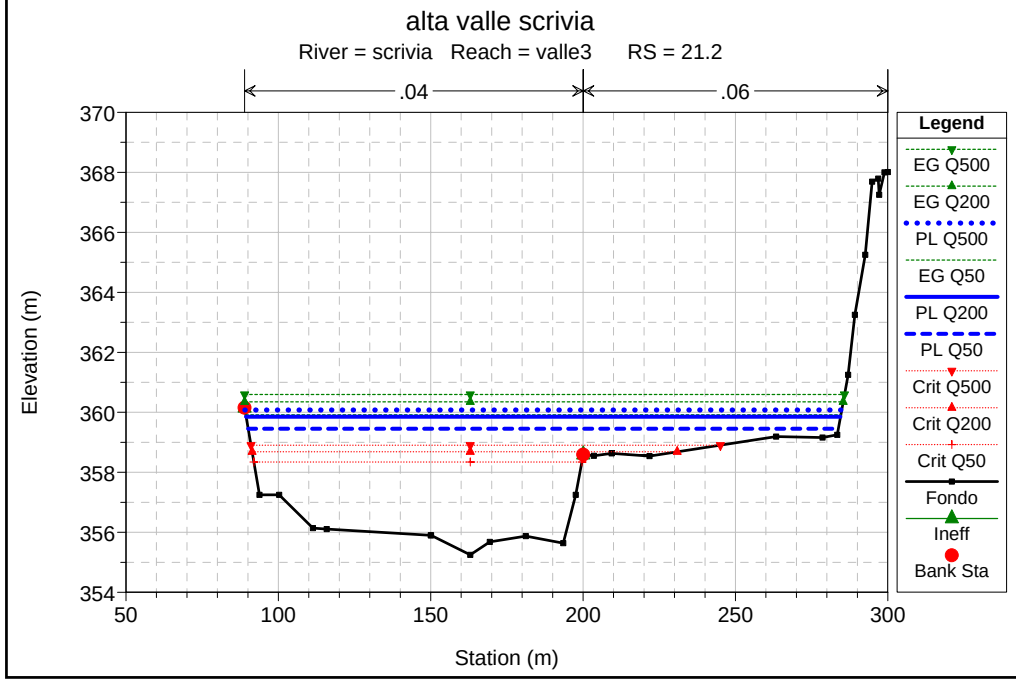

alta valle scrivia
River = scrivia Reach = valle2 RS = 21.75
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

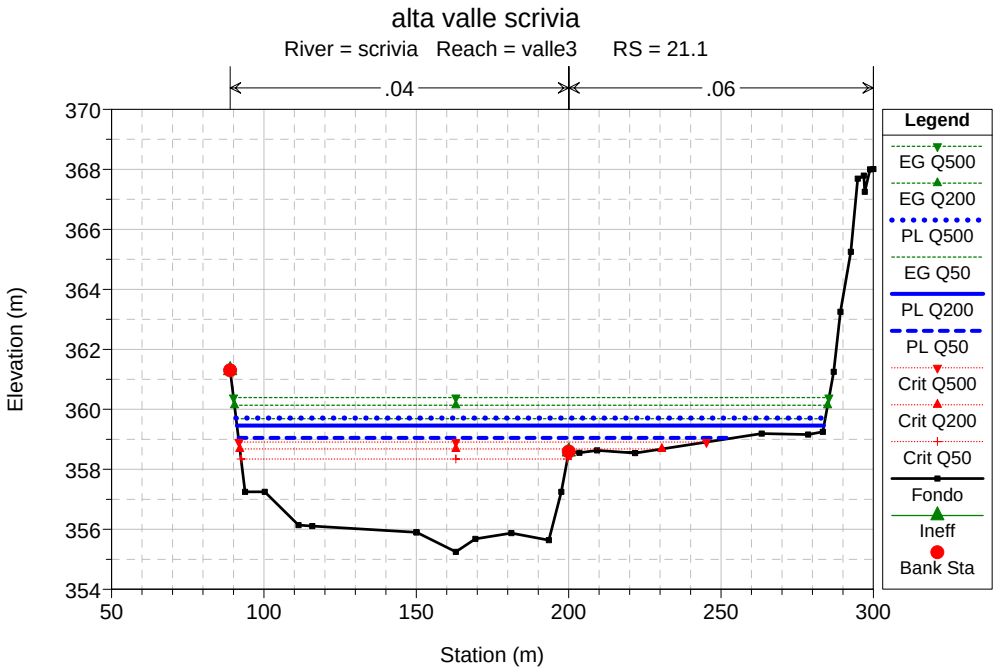

alta valle scrivia
River = scrivia Reach = valle3 RS = 21.6
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

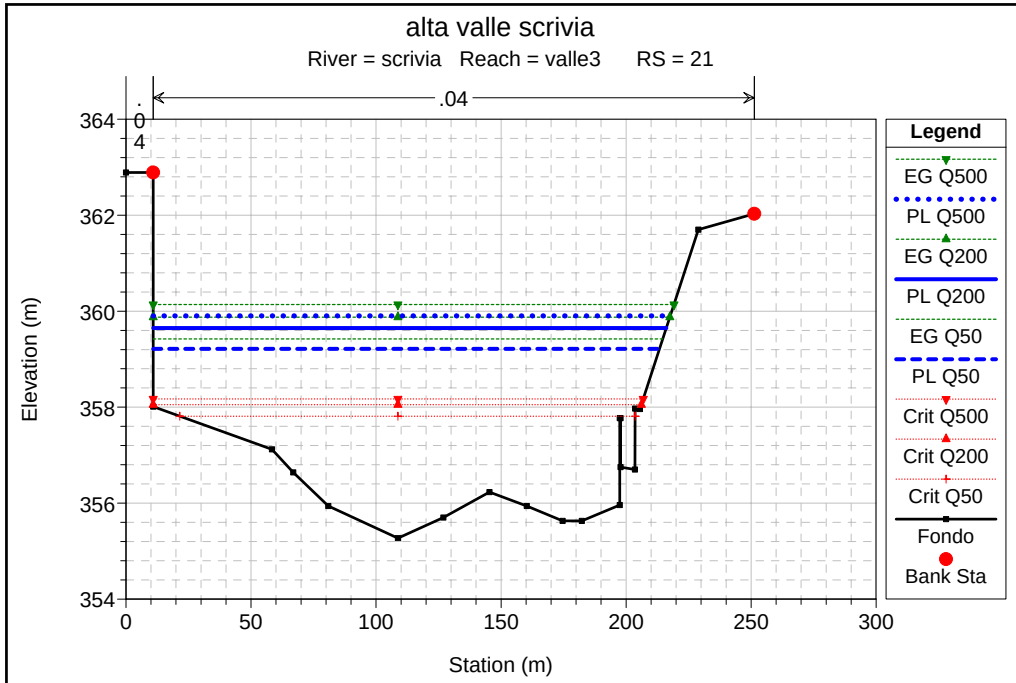

alta valle scrivia
River = scrivia Reach = valle3 RS = 21.5
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle3 RS = 21.46
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle3 RS = 21.45 BR
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = valle3 RS = 21.45 BR
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

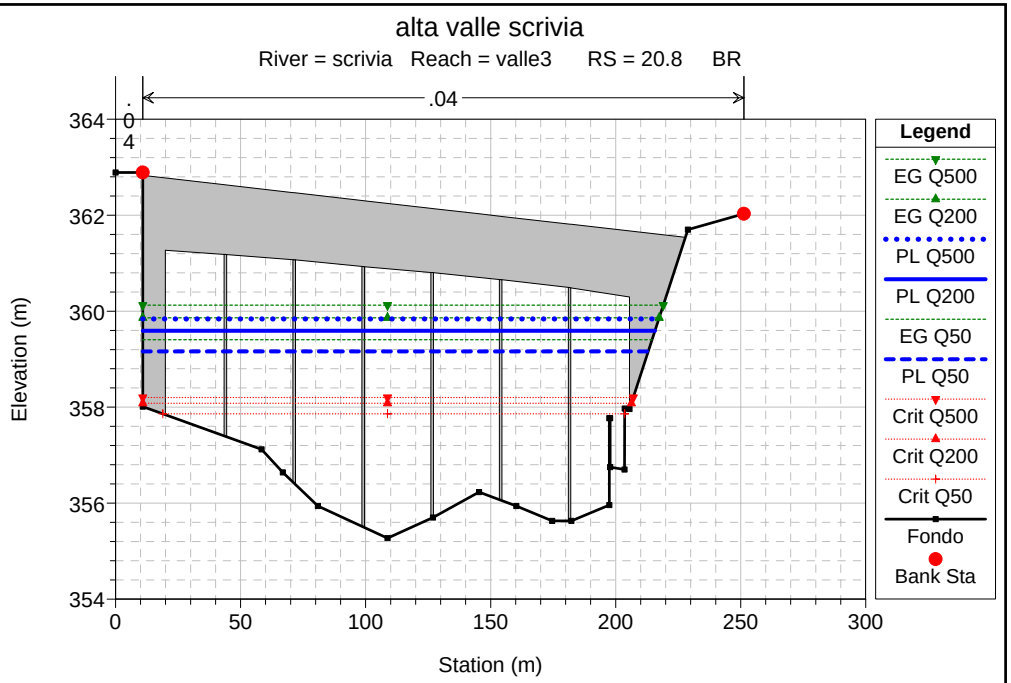

alta valle scrivia
River = scrivia Reach = valle3 RS = 21.41
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

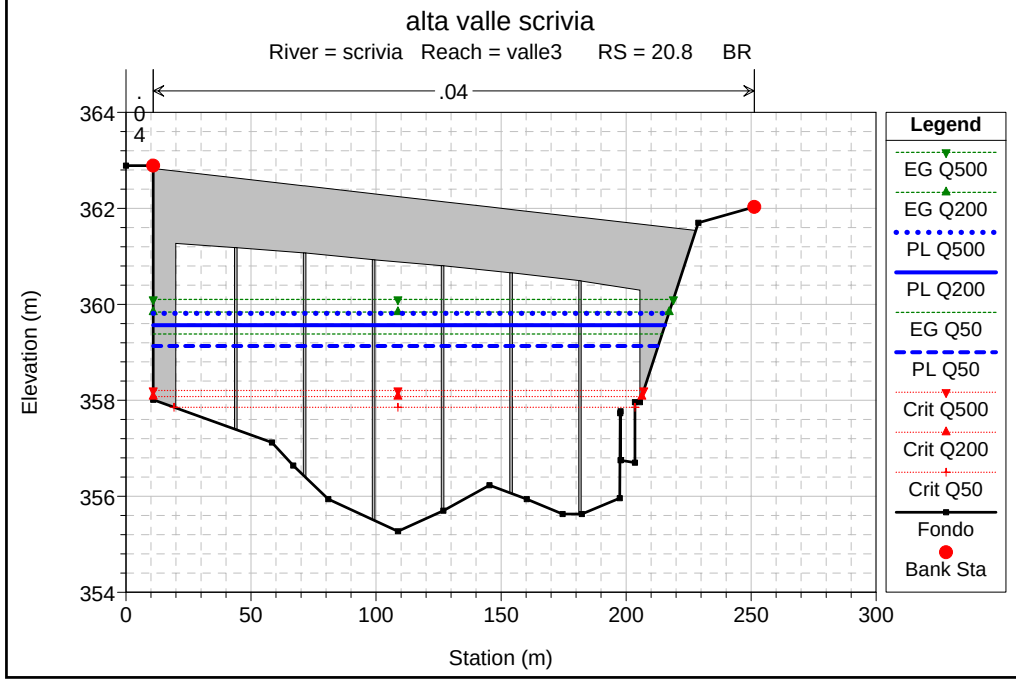

alta valle scrivia
River = scrivia Reach = valle3 RS = 21.4
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

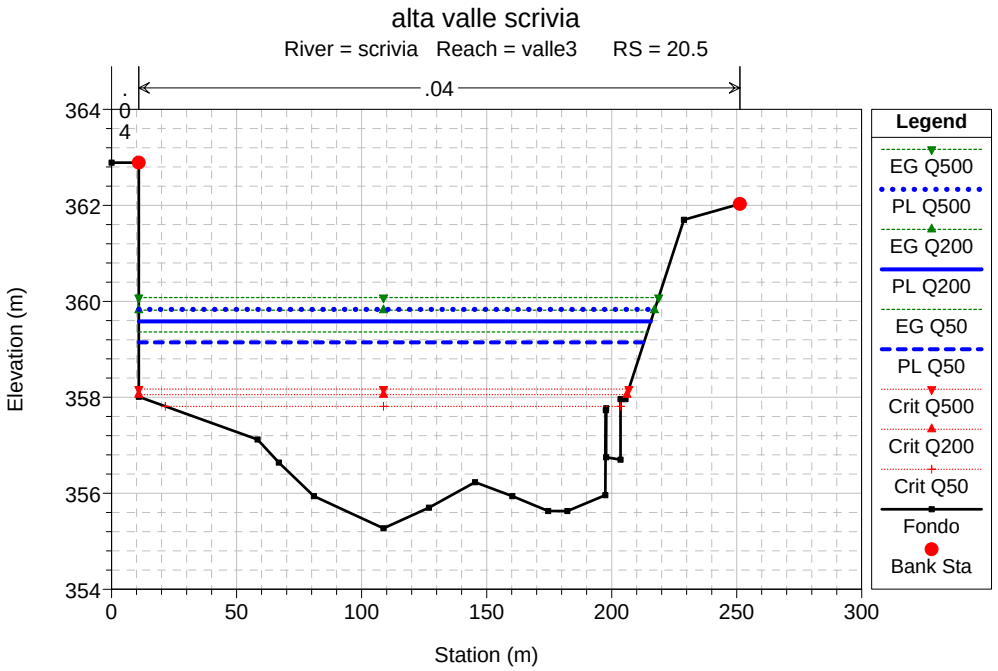

alta valle scrivia
River = scrivia Reach = valle3 RS = 21.2
.04
.06
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Ineff
Bank Sta

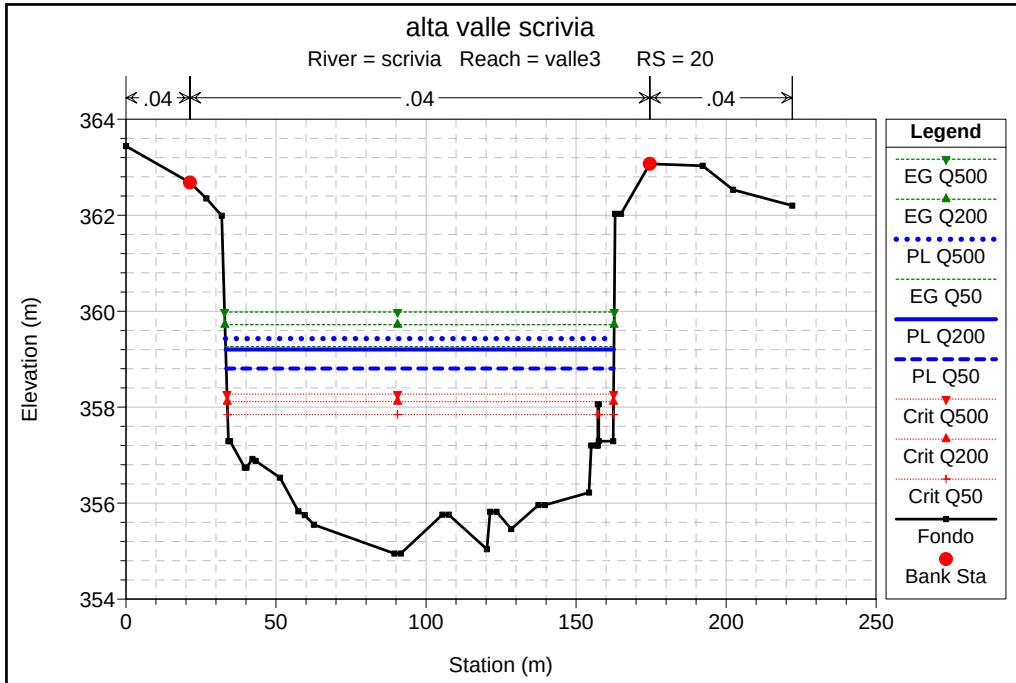

alta valle scrivia
River = scrivia Reach = valle3 RS = 21.1
.04
.06
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Ineff
Bank Sta

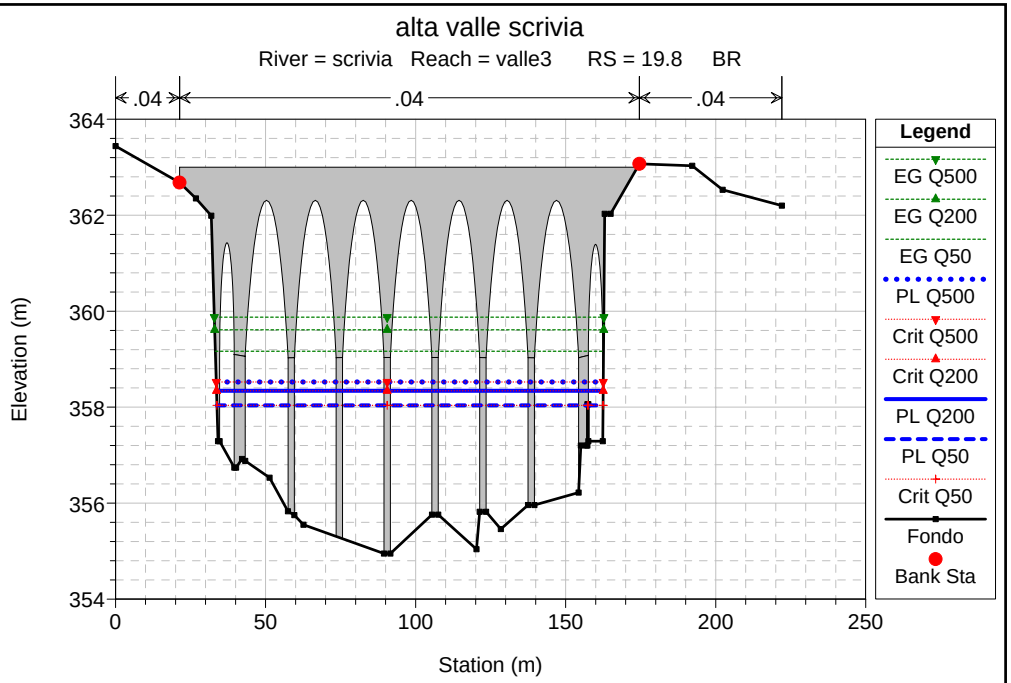

alta valle scrivia
River = scrivia Reach = valle3 RS = 21
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

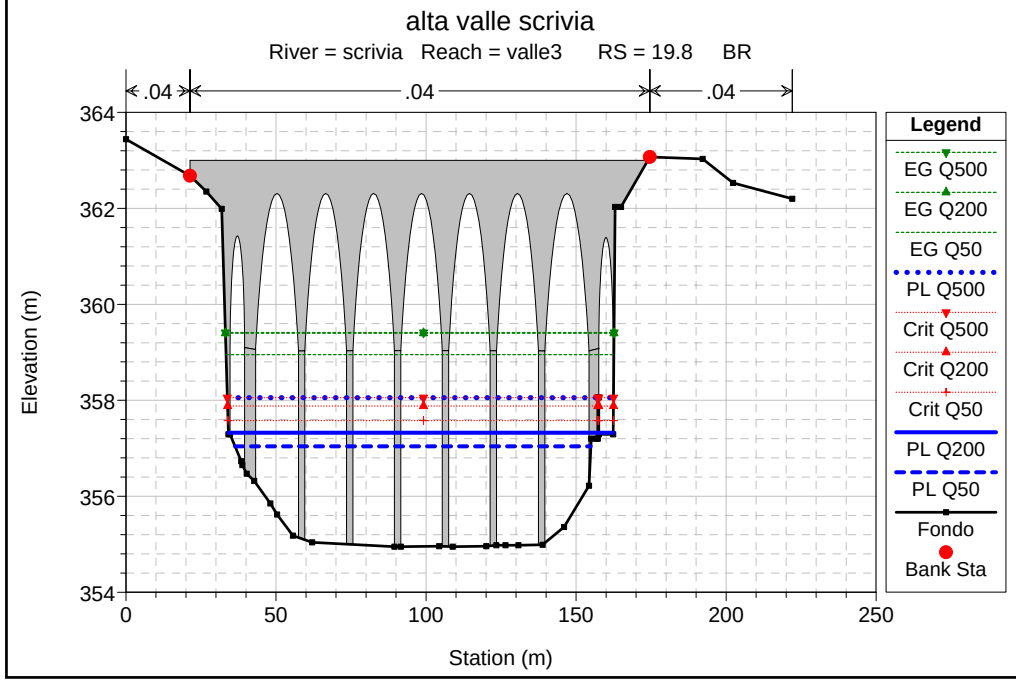

alta valle scrivia
River = scrivia Reach = valle3 RS = 20.8 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

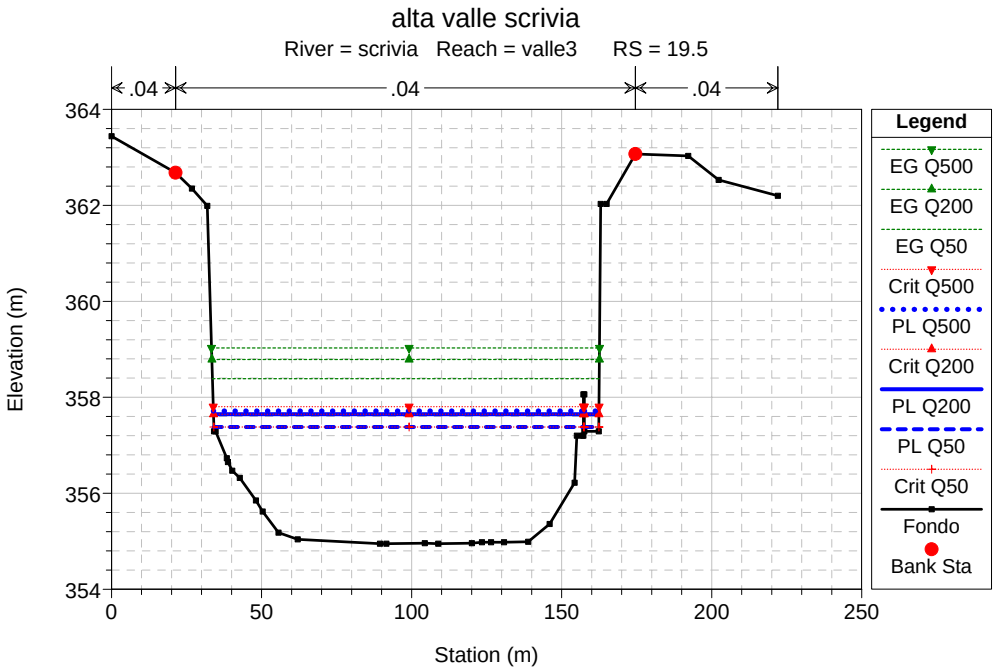

alta valle scrivia
River = scrivia Reach = valle3 RS = 20.8 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

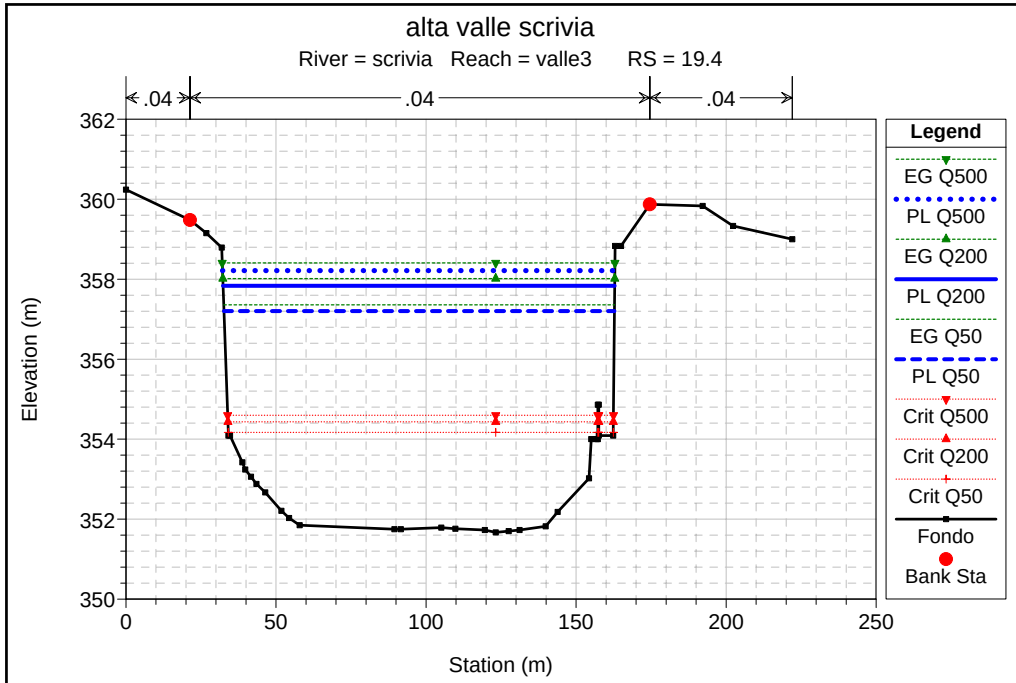

alta valle scrivia
River = scrivia Reach = valle3 RS = 20.5
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

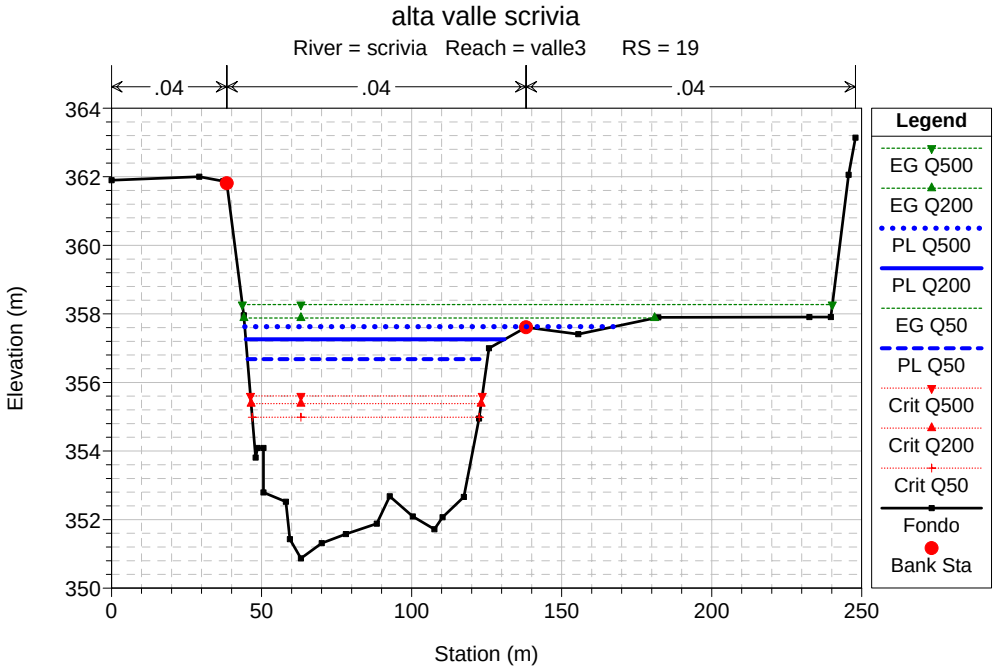

alta valle scrivia
River = scrivia Reach = valle3 RS = 20
.04
.04
.04
Elevation (m)
364
362
360
358
356
354
0
50
100
150
200
250
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

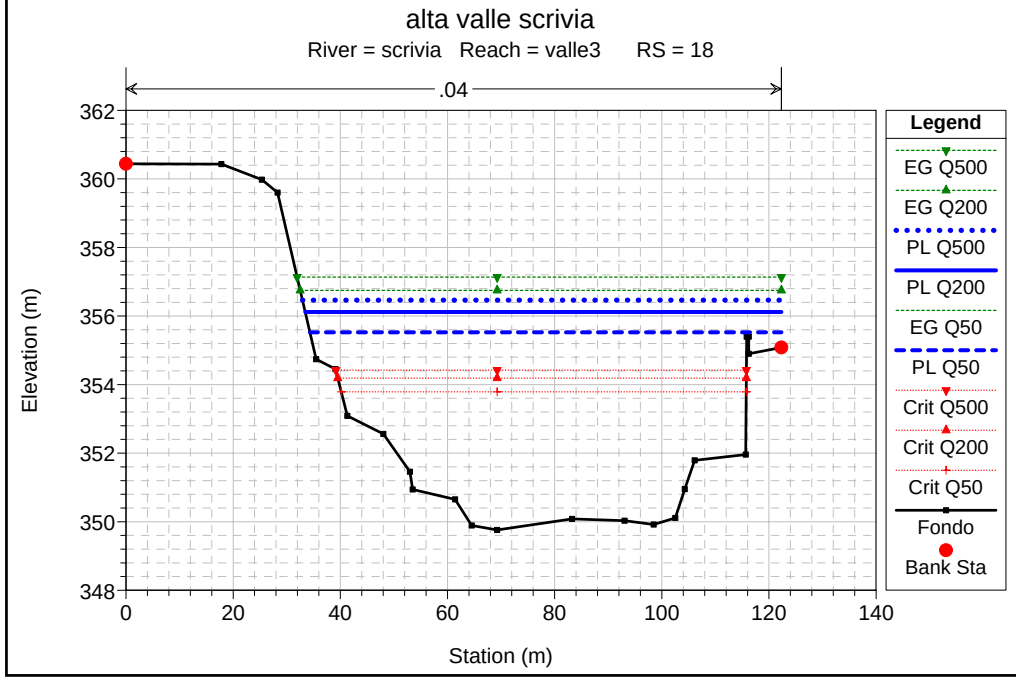

alta valle scrivia
River = scrivia Reach = valle3 RS = 19.8 BR
.04
.04
.04
Elevation (m)
364
362
360
358
356
354
0
50
100
150
200
250
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

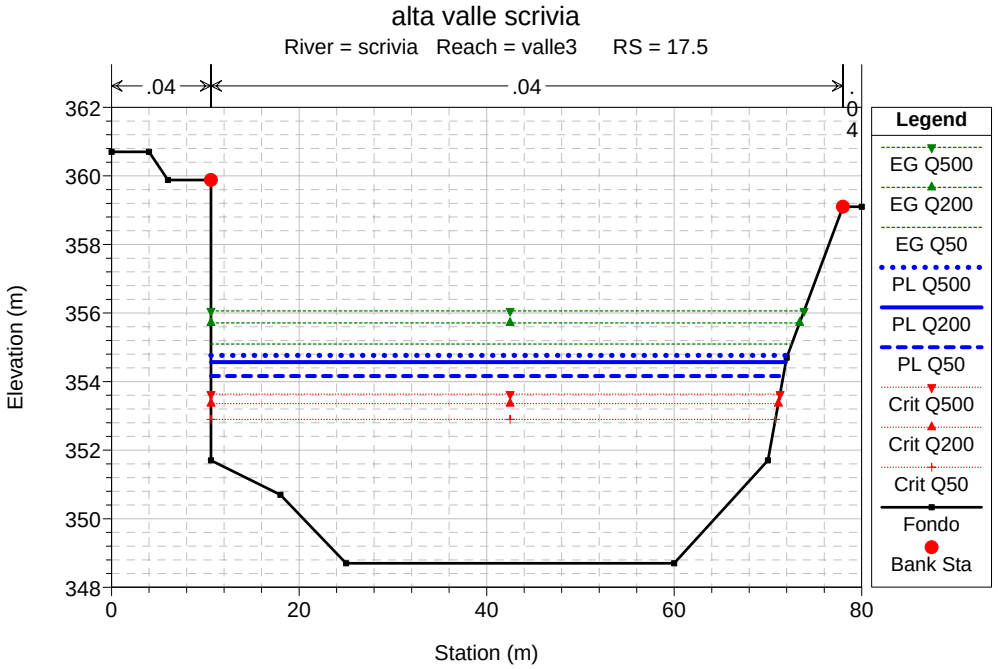

alta valle scrivia
River = scrivia Reach = valle3 RS = 19.8 BR
.04
.04
.04
Elevation (m)
364
362
360
358
356
354
0
50
100
150
200
250
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

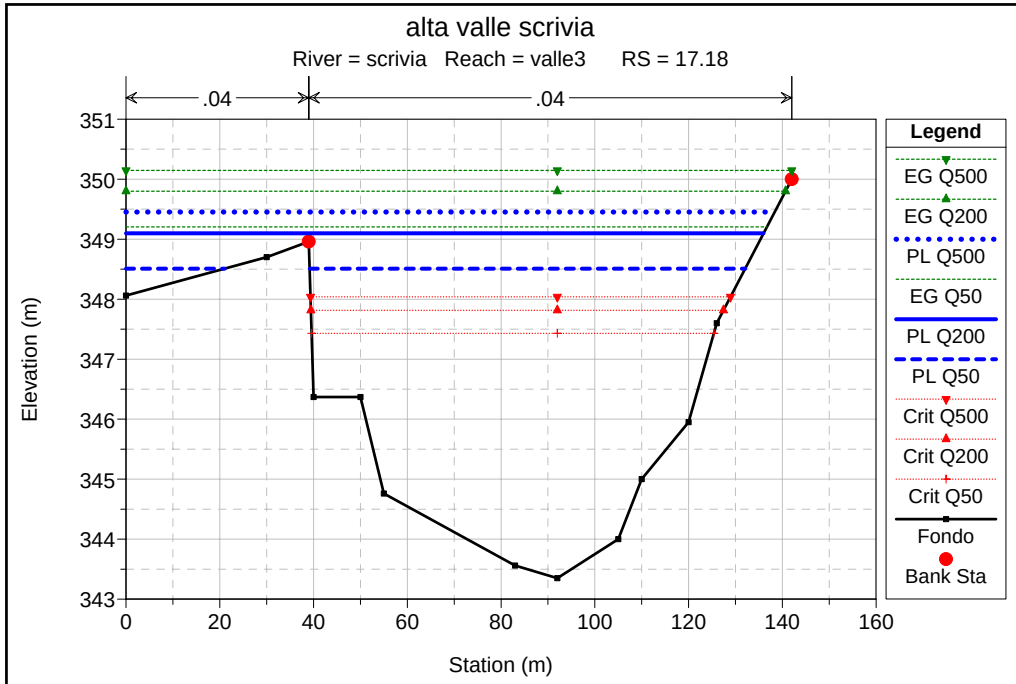

alta valle scrivia
River = scrivia Reach = valle3 RS = 19.5
.04
.04
.04
Elevation (m)
364
362
360
358
356
354
0
50
100
150
200
250
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle3 RS = 19.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle3 RS = 19
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle3 RS = 18
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle3 RS = 17.5
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = valle3 RS = 17.18
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.04
Elevation (m)
Station (m)
Legend
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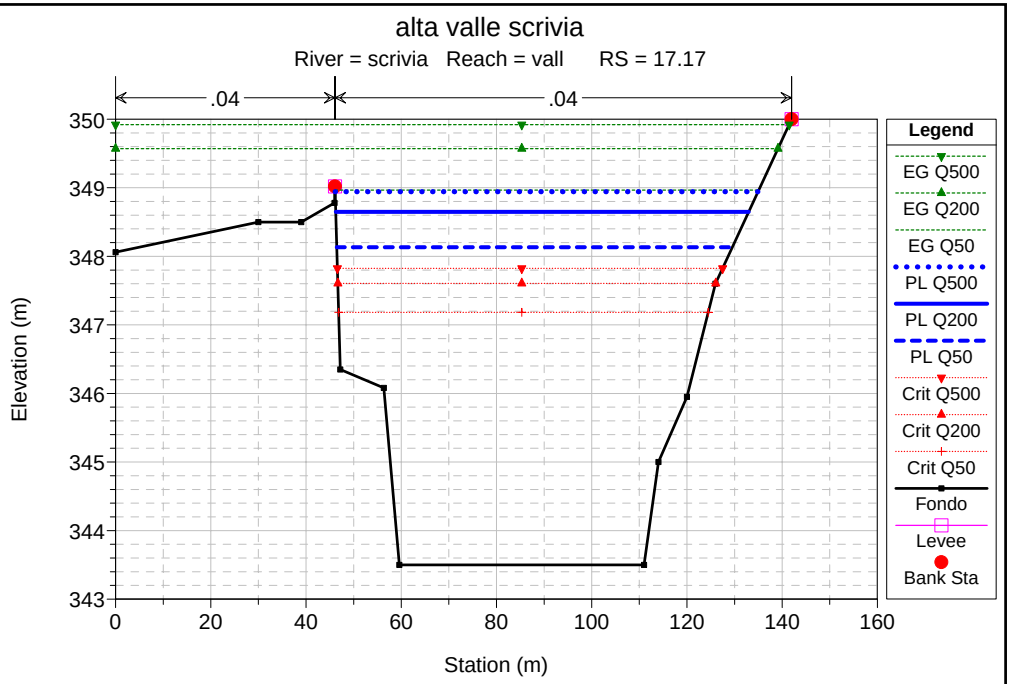
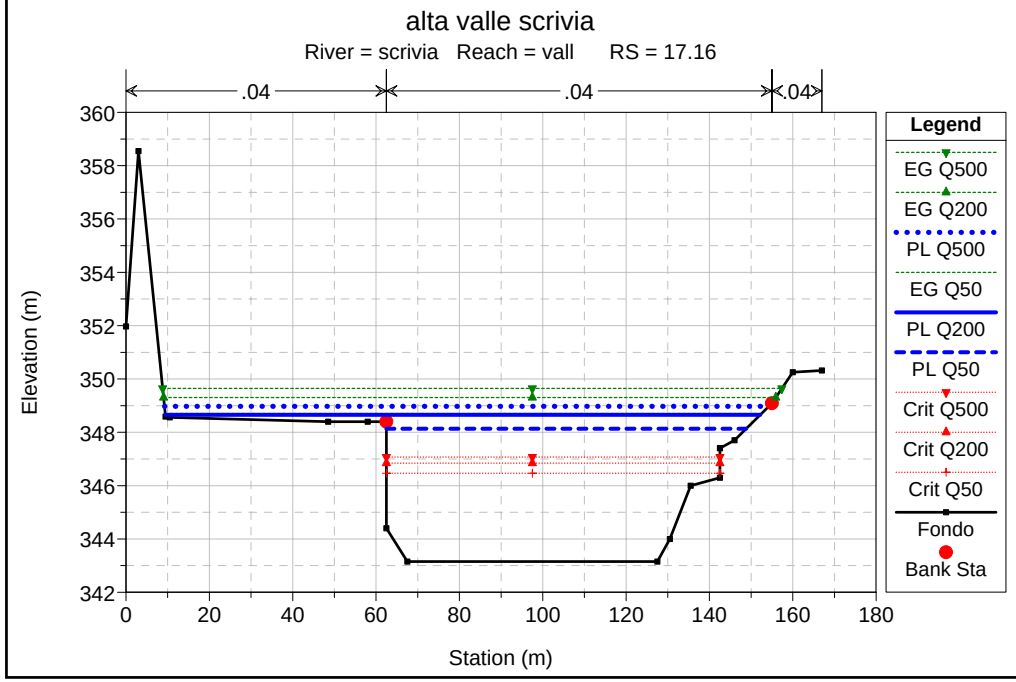
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 17.17
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 17.16
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.04
.04
Elevation (m)
Station (m)
Legend
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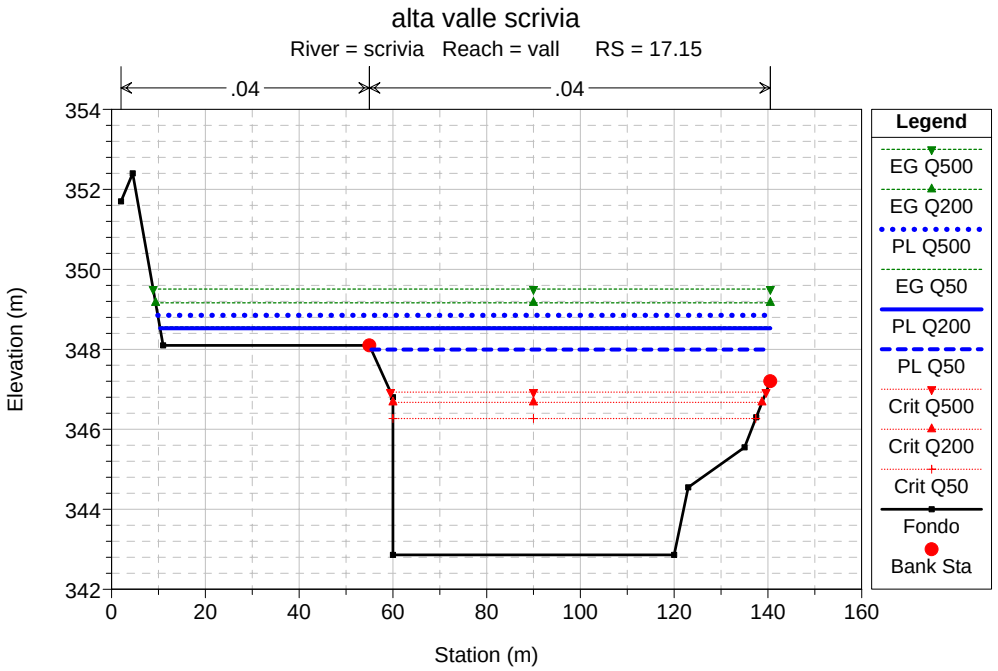
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 17.15
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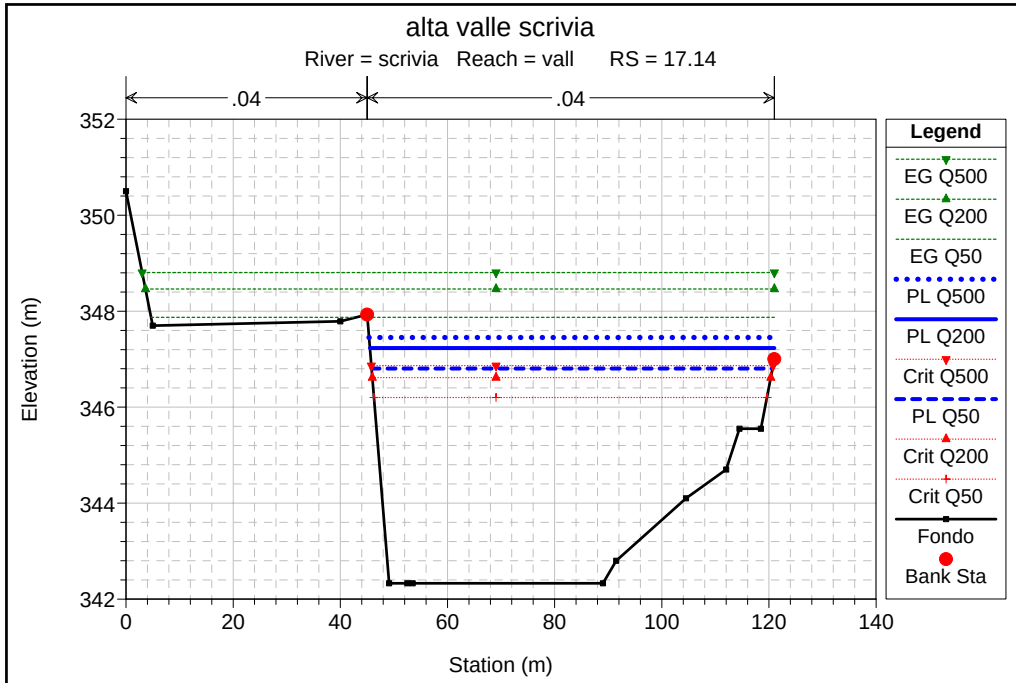
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 17.14
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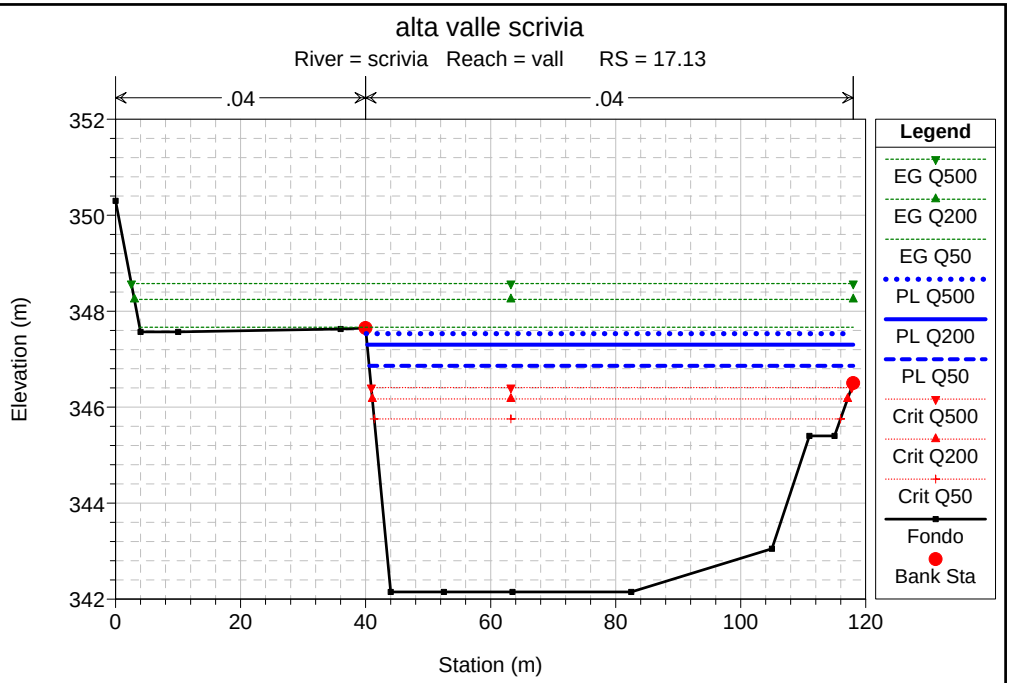
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 17.13
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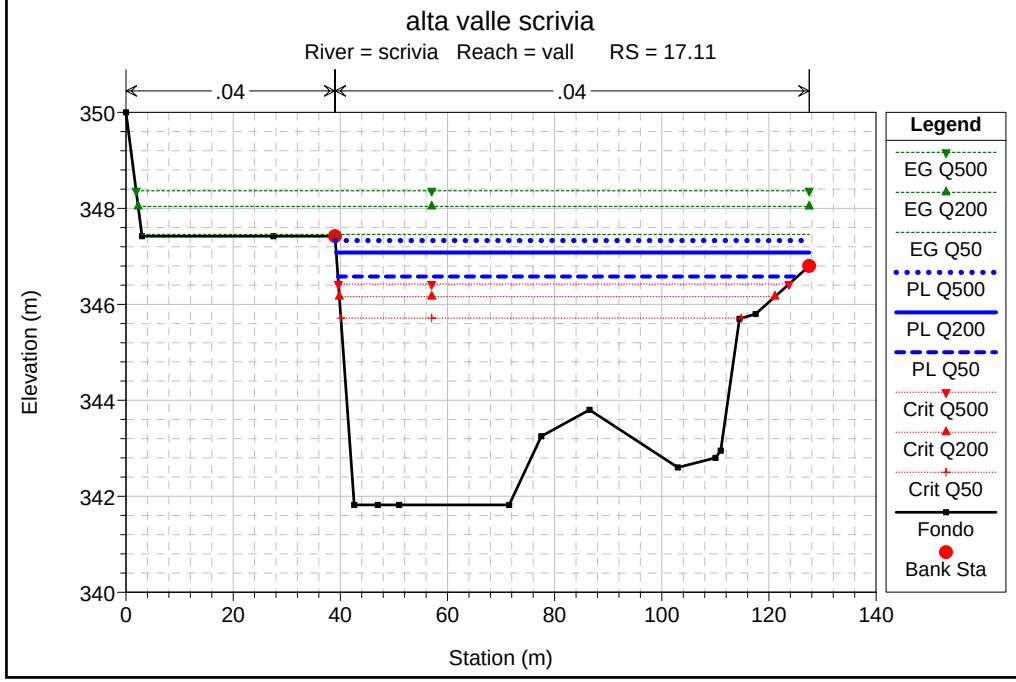
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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River = scrivia Reach = vall RS = 17.11
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Elevation (m)
Station (m)
Legend
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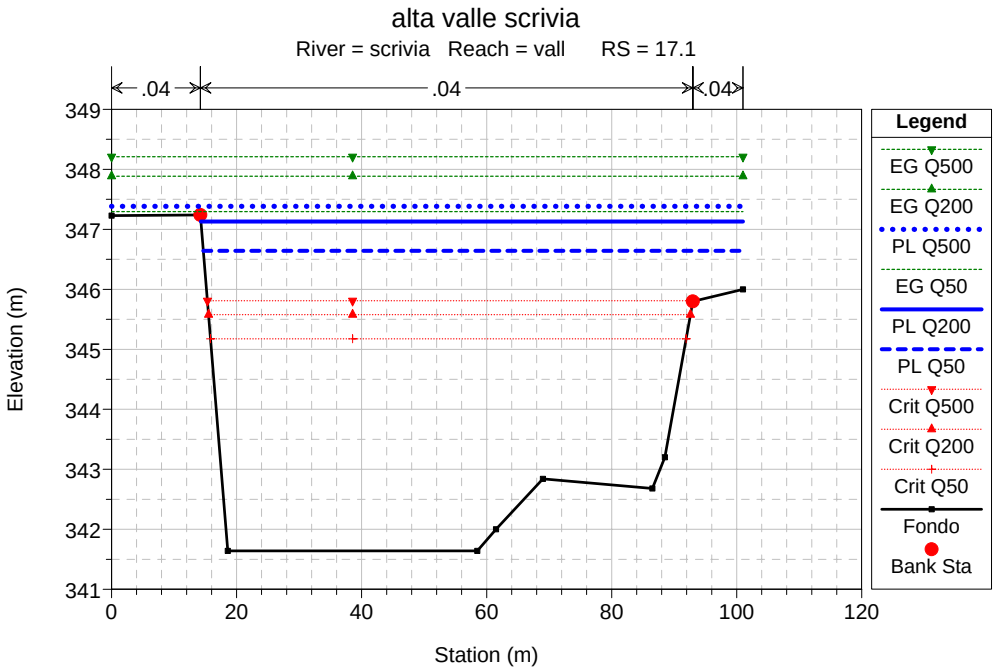
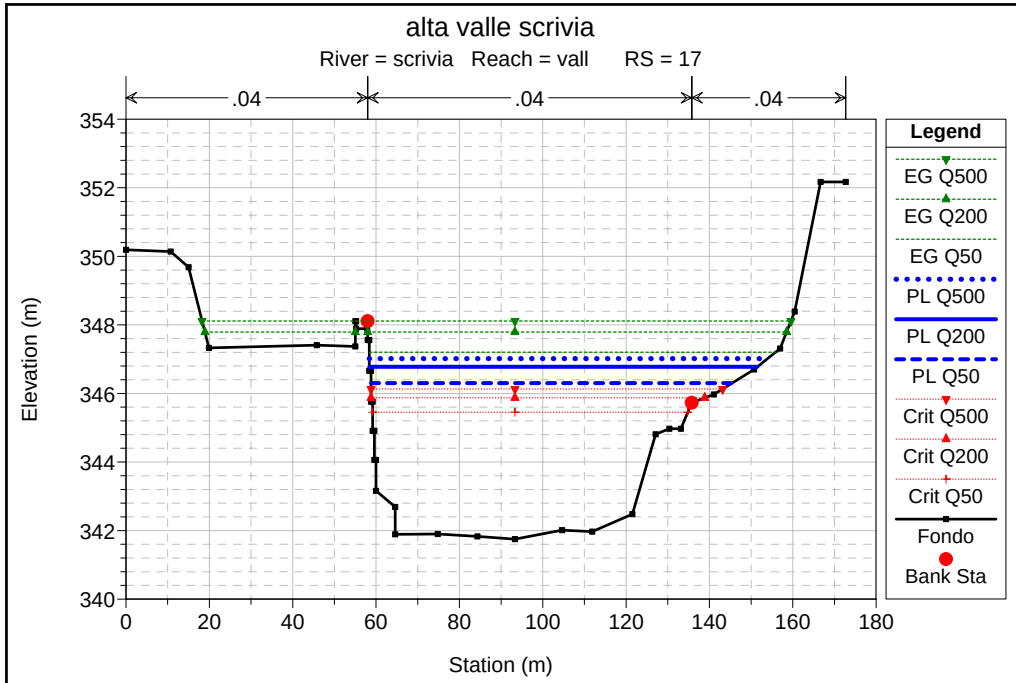
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 17.1
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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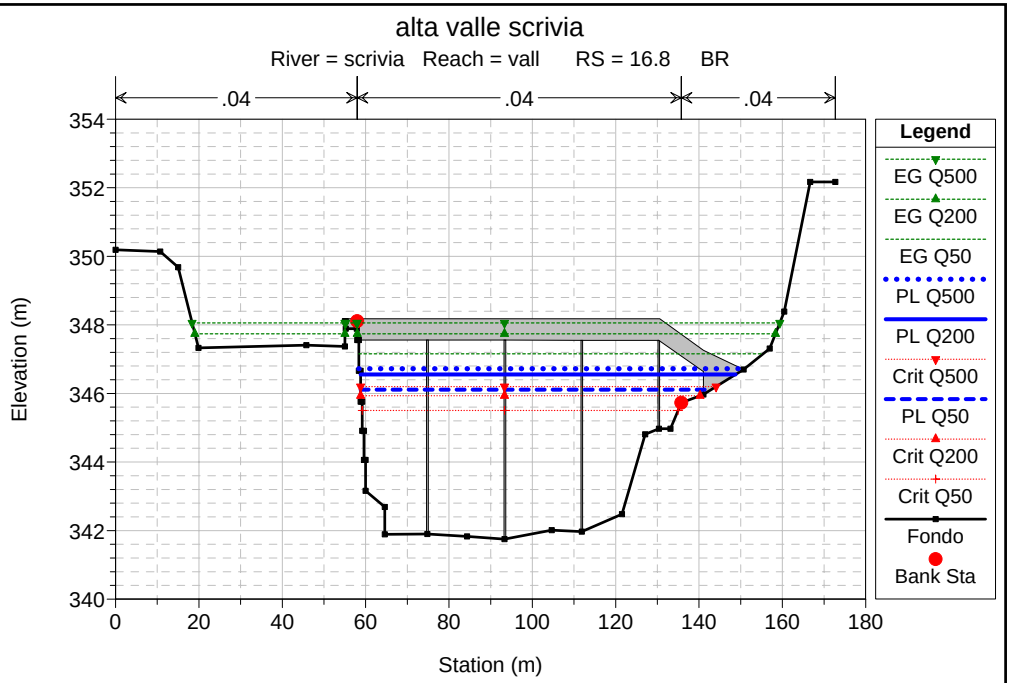
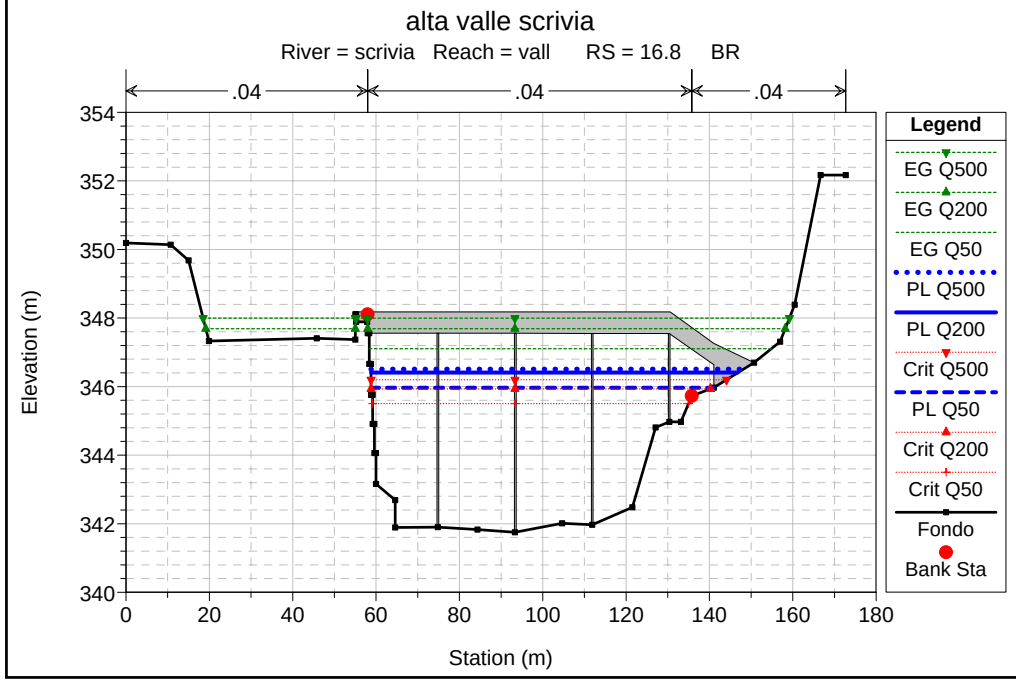
River = scrivia Reach = vall RS = 17
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 16.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 16.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
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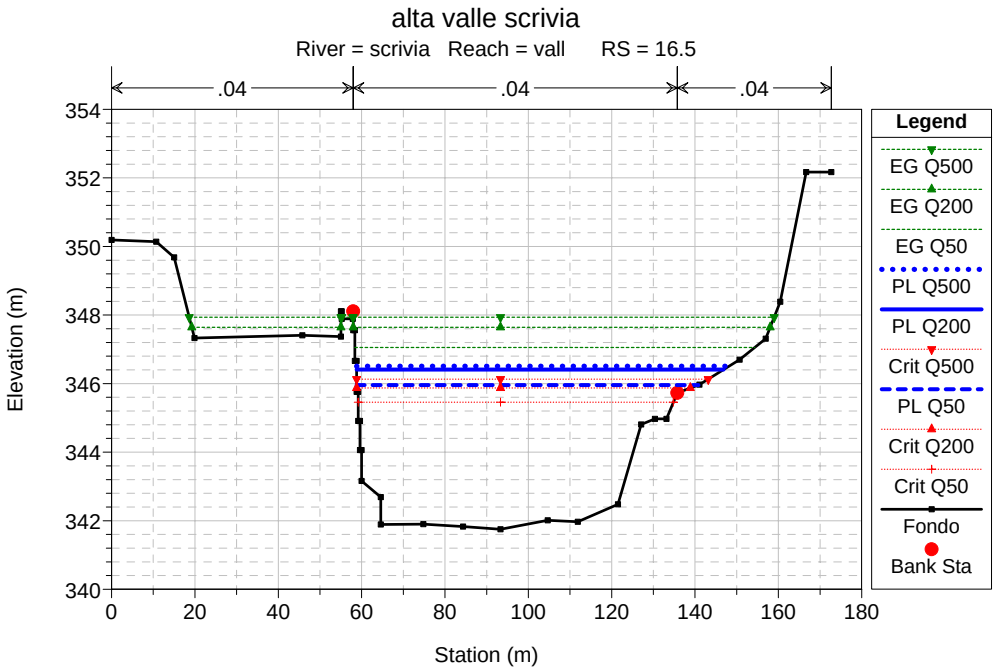
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 16.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
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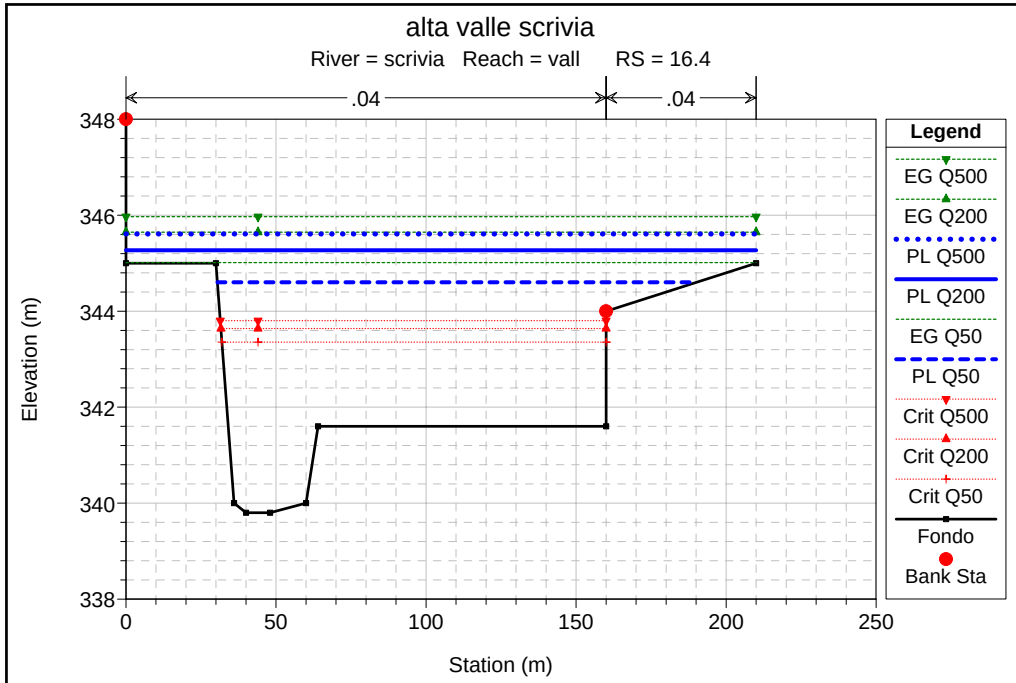
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 16.4
.04
.04
Elevation (m)
Station (m)
Legend
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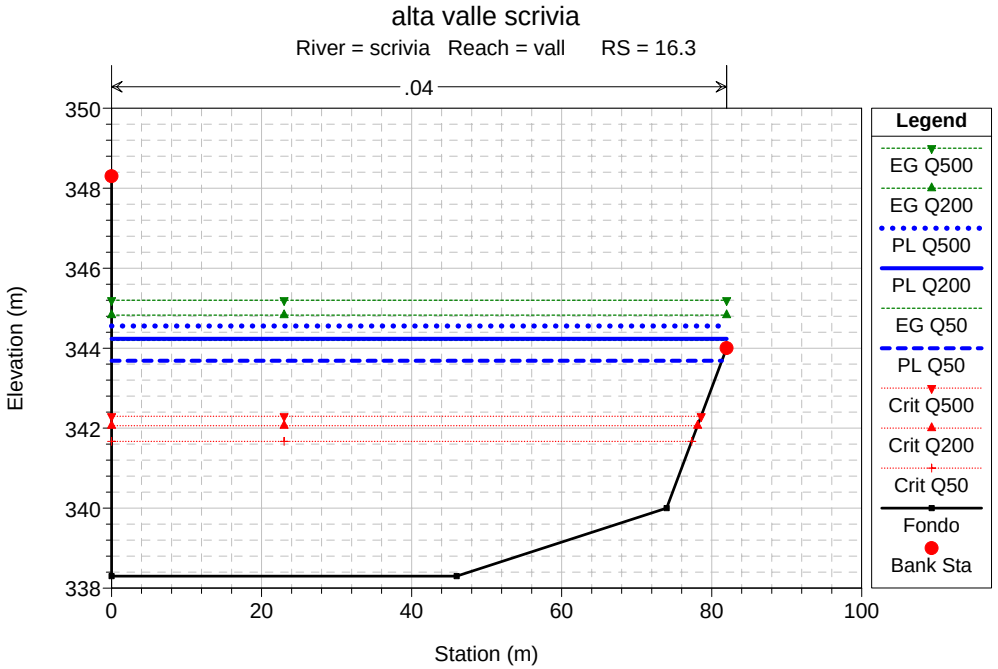
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 16.3
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Elevation (m)
Station (m)
Legend
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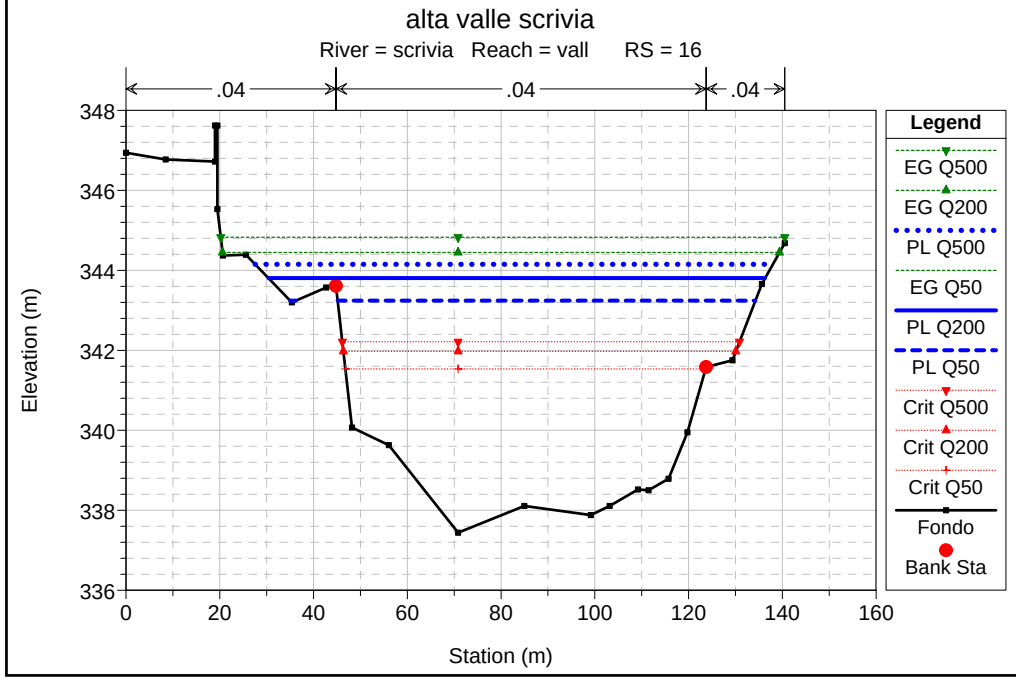
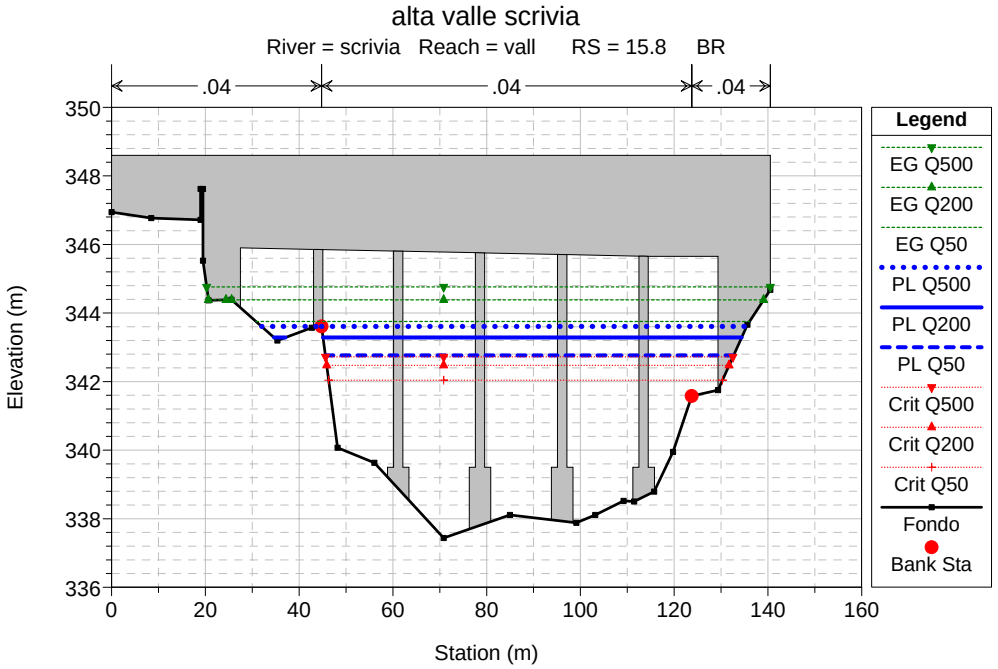
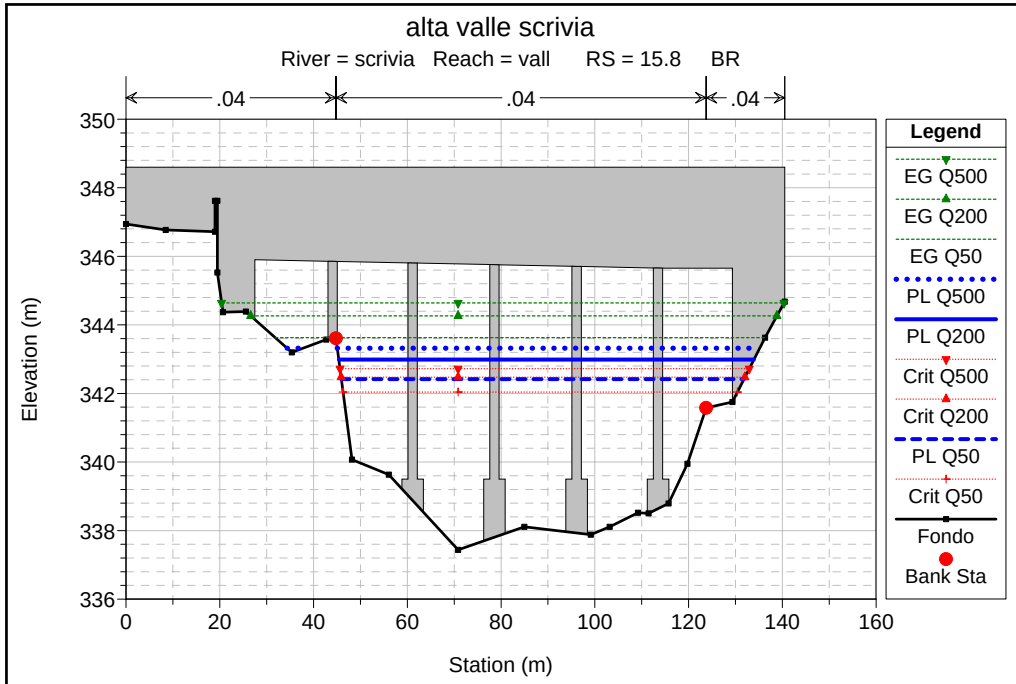
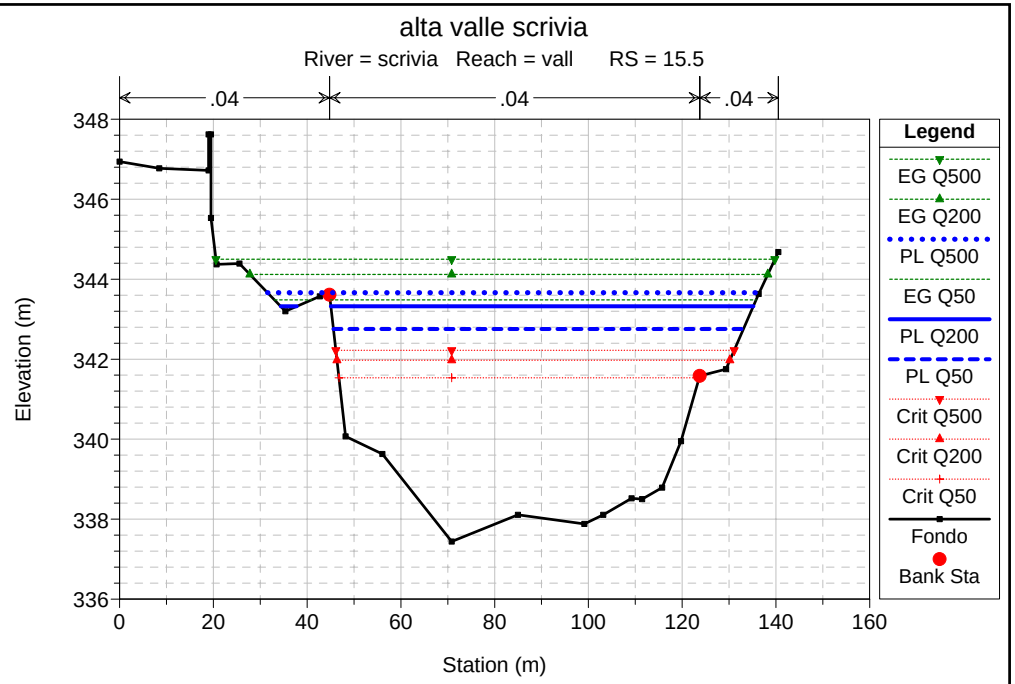
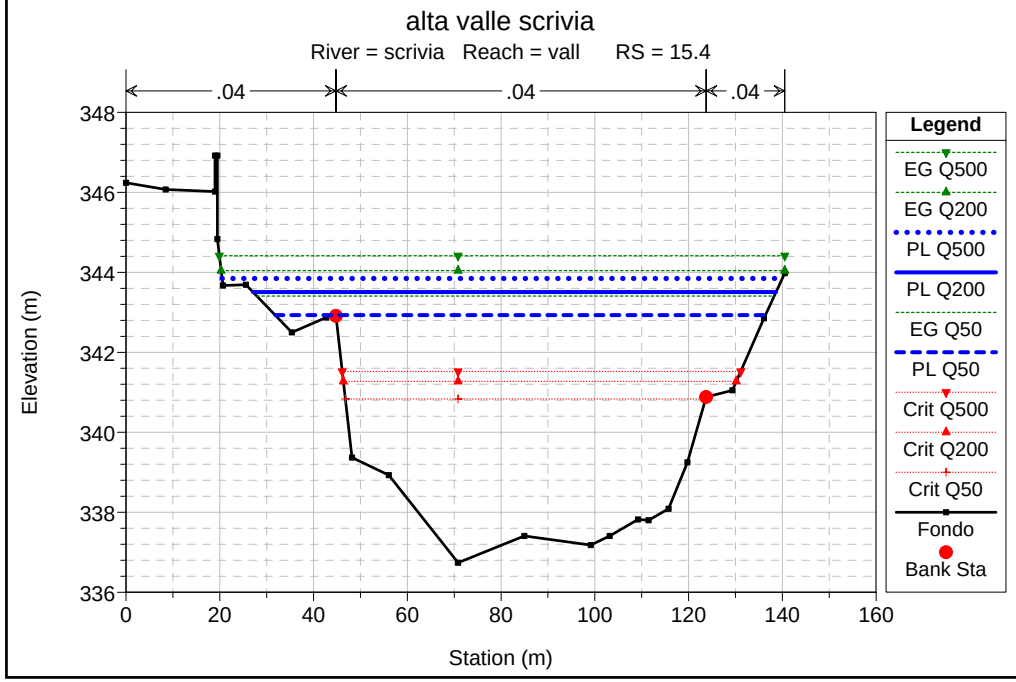
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

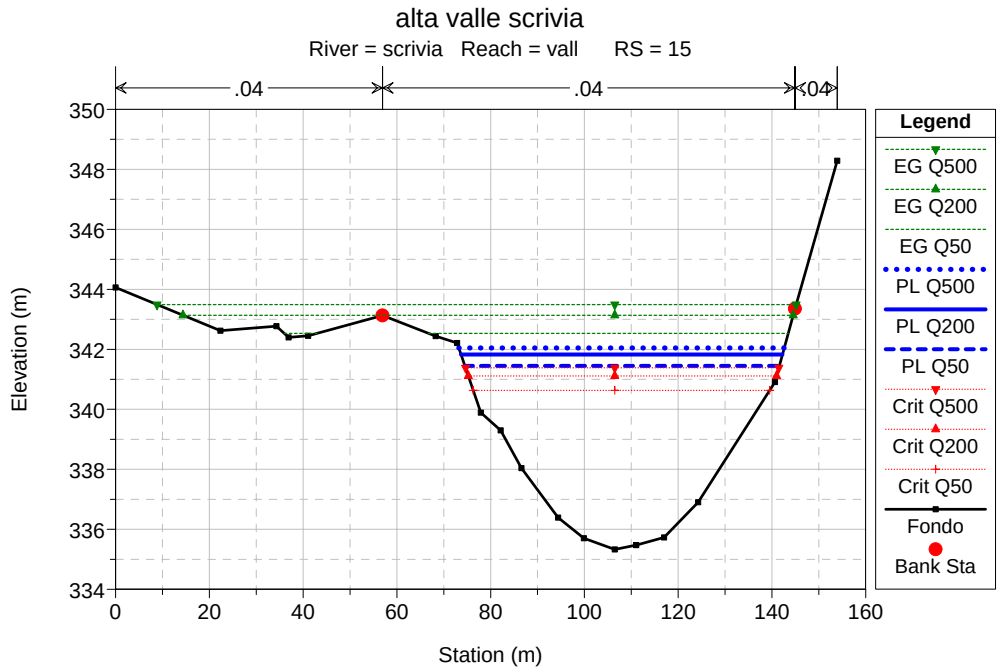

alta valle scrivia
River = scrivia Reach = vall RS = 16
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

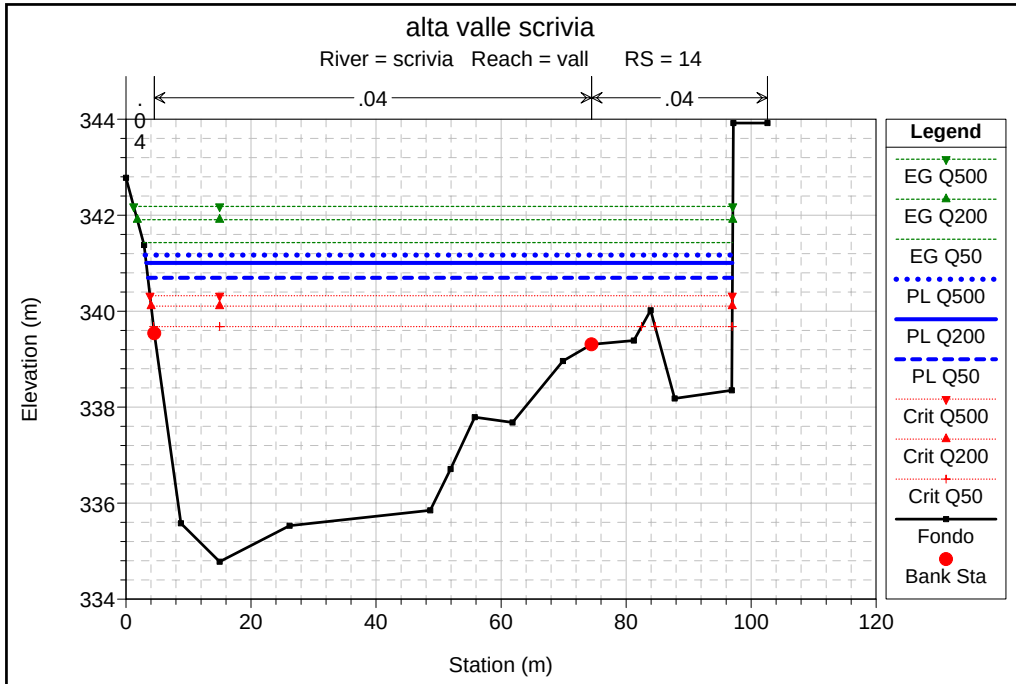

alta valle scrivia
River = scrivia Reach = vall RS = 15.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

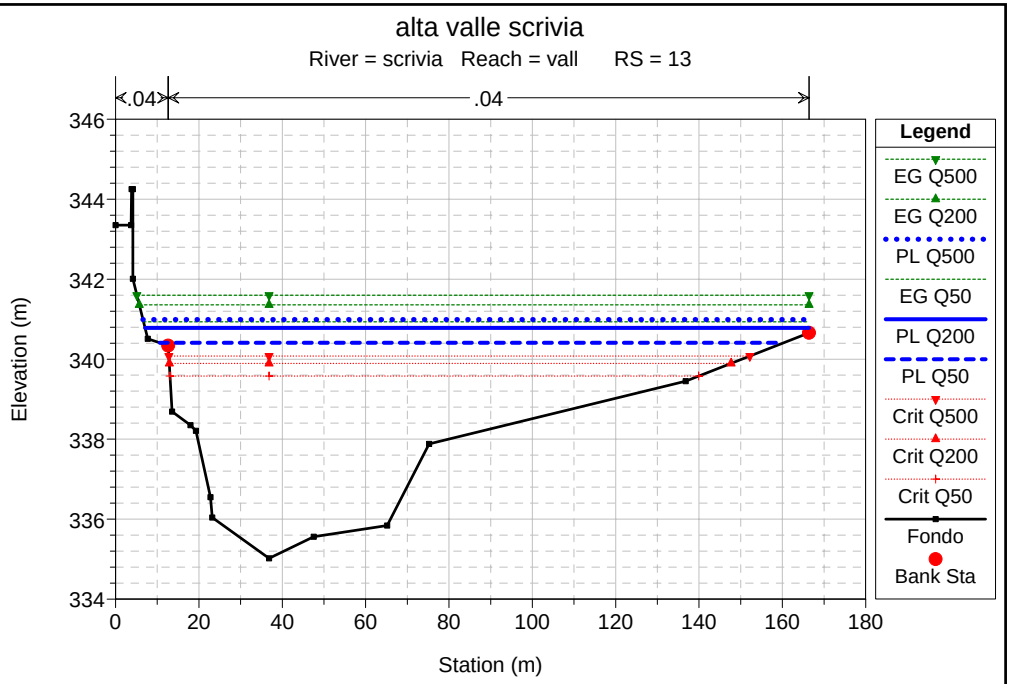

alta valle scrivia
River = scrivia Reach = vall RS = 15.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

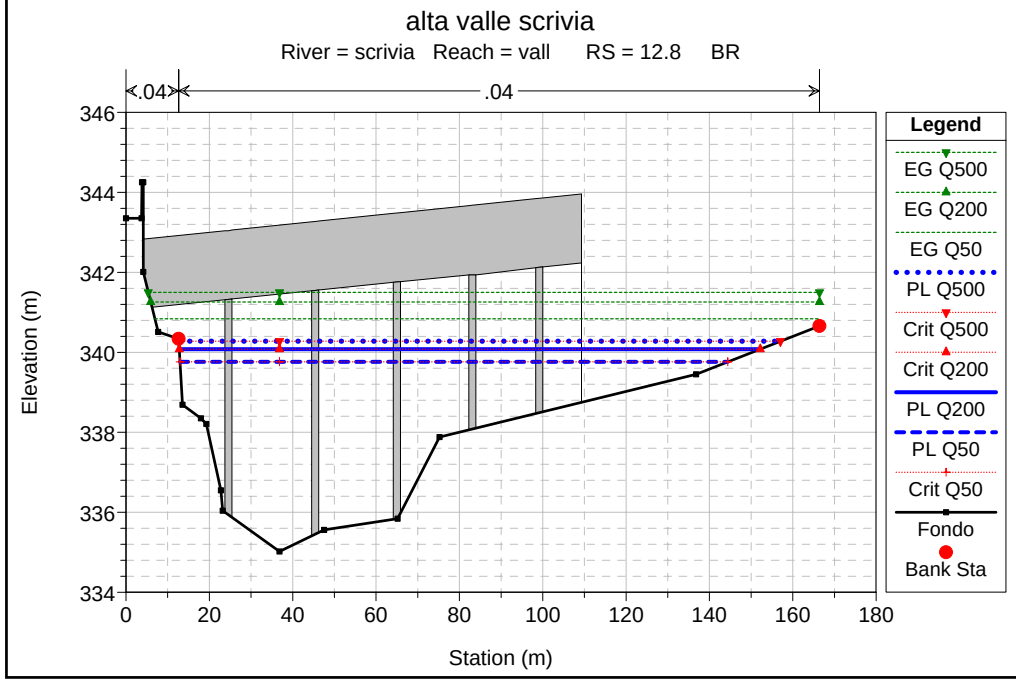

alta valle scrivia
River = scrivia Reach = vall RS = 15.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 15.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 15
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 14
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 13
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 12.8 BR
.04
.04
Elevation (m)
Station (m)
Legend
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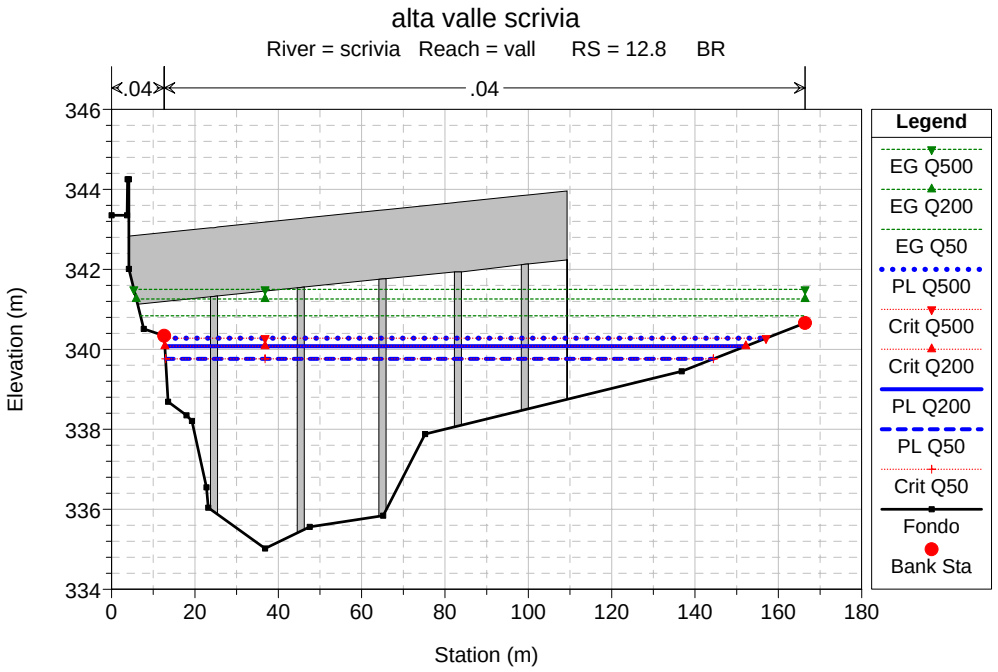
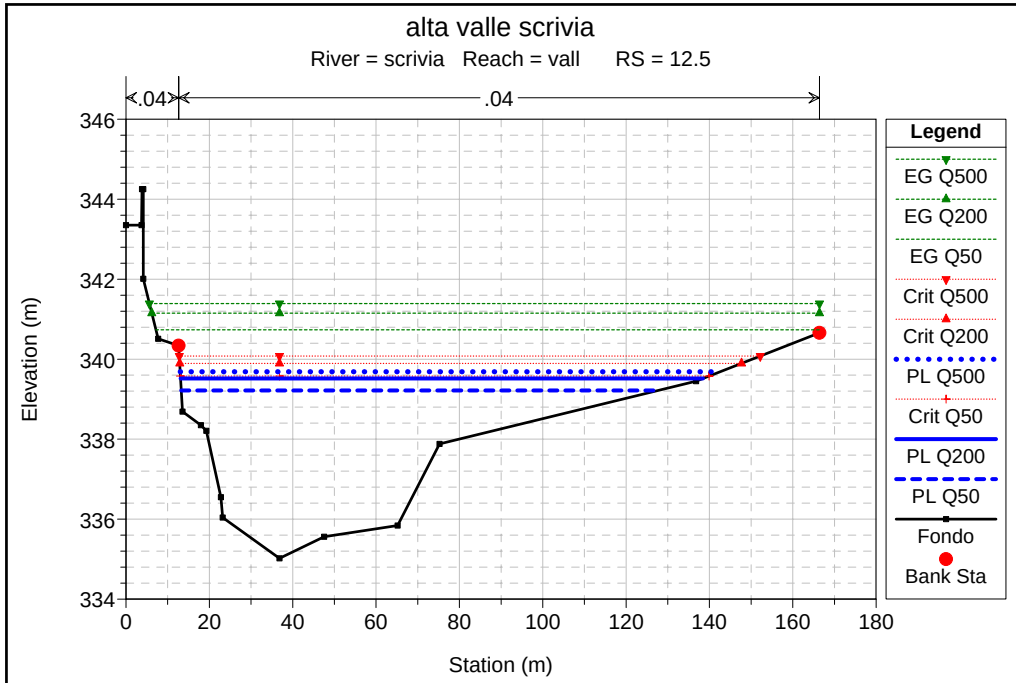
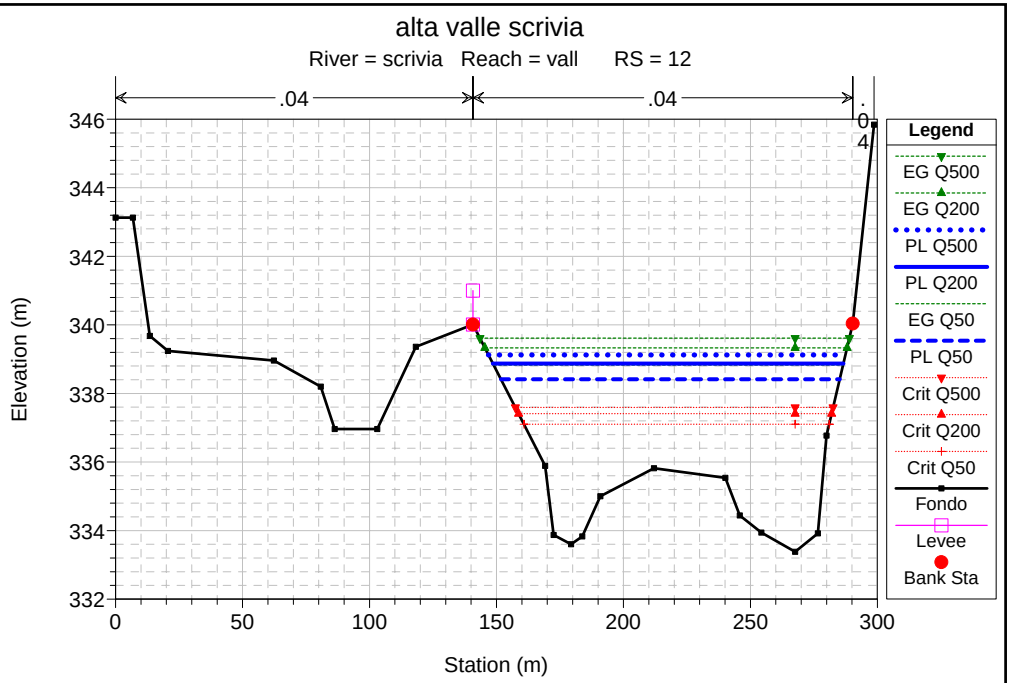
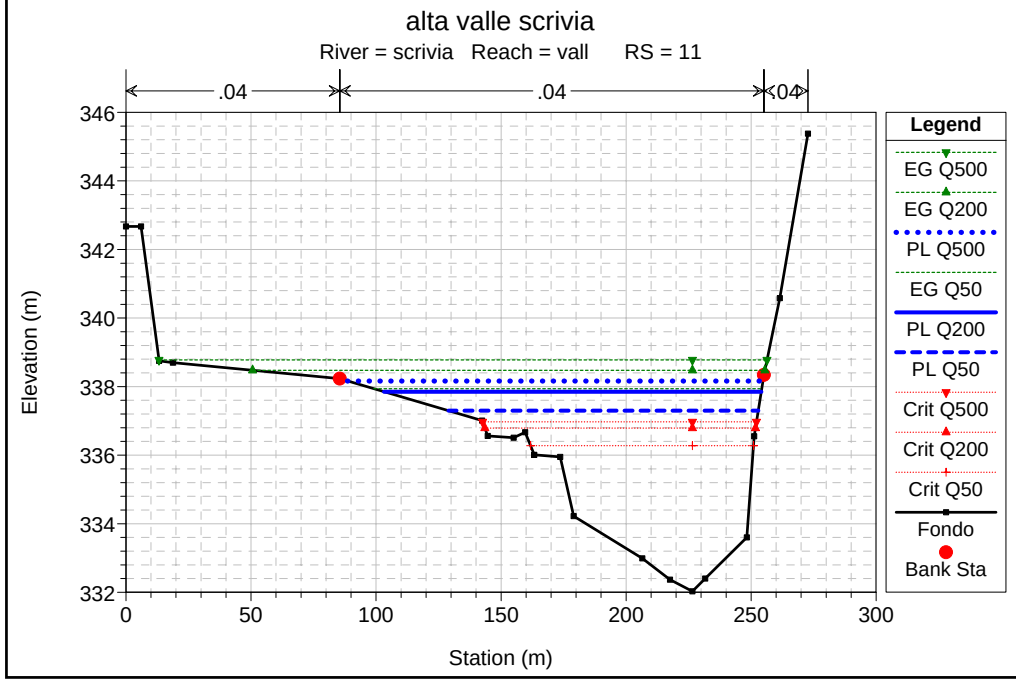
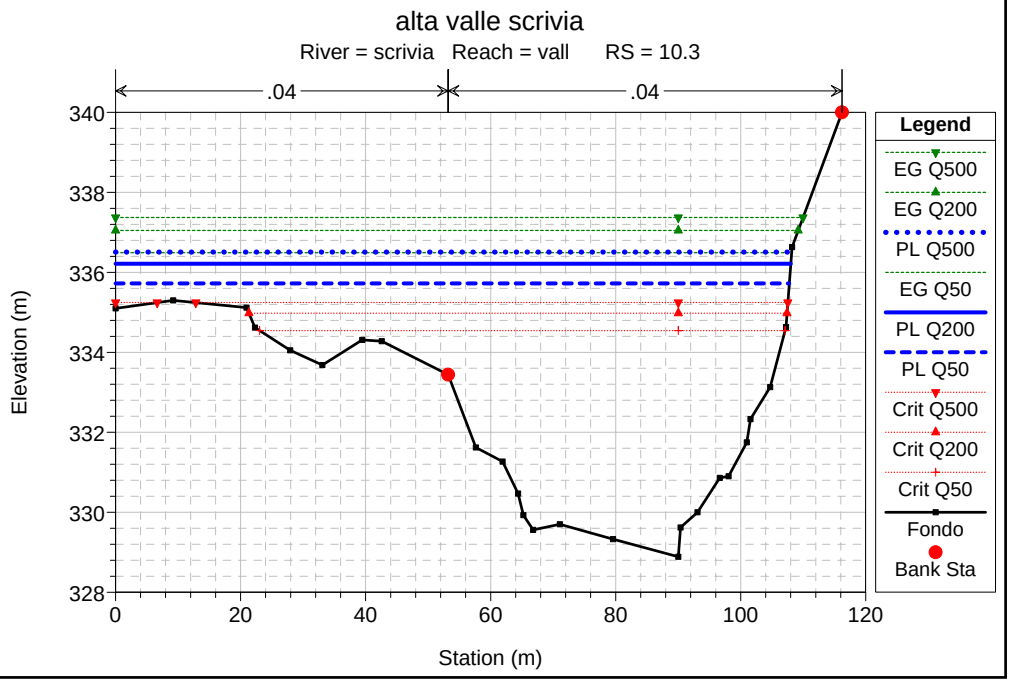
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

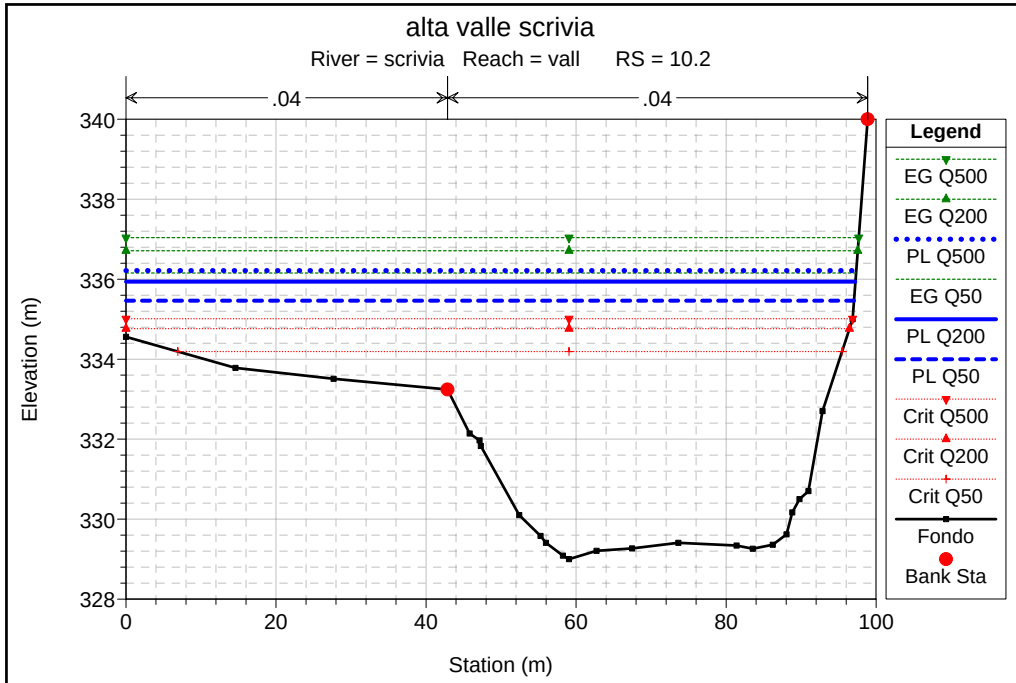

alta valle scrivia
River = scrivia Reach = vall RS = 12.8 BR
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 12.5
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 12
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 11
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 10.3
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 10.2
.04
.04
Elevation (m)
Station (m)
Legend
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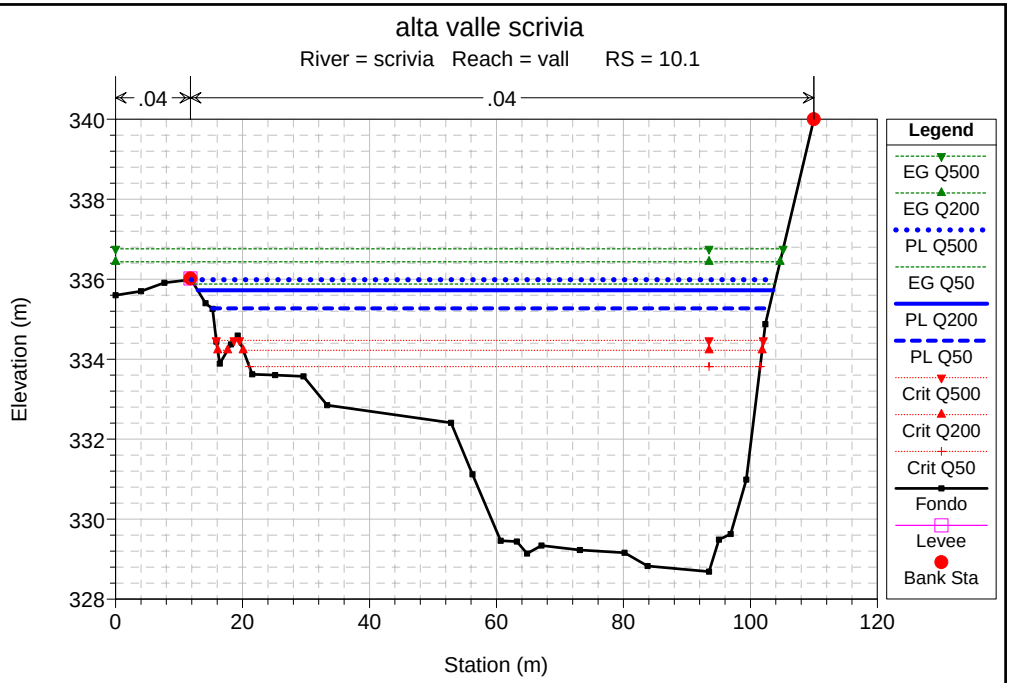
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 10.1
.04
.04
Elevation (m)
Station (m)
Legend
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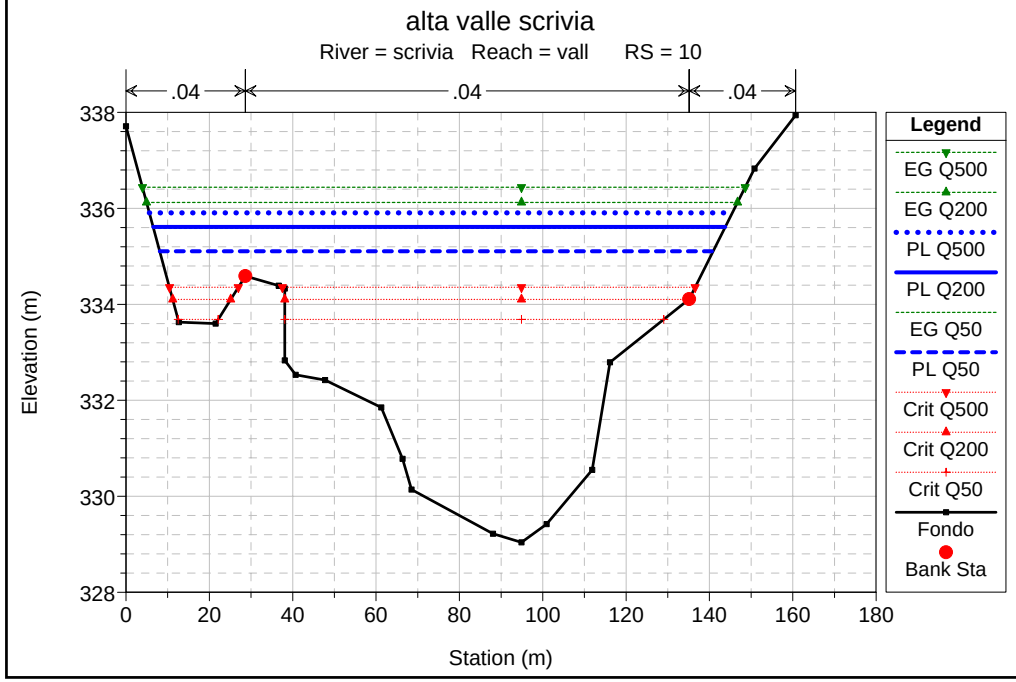
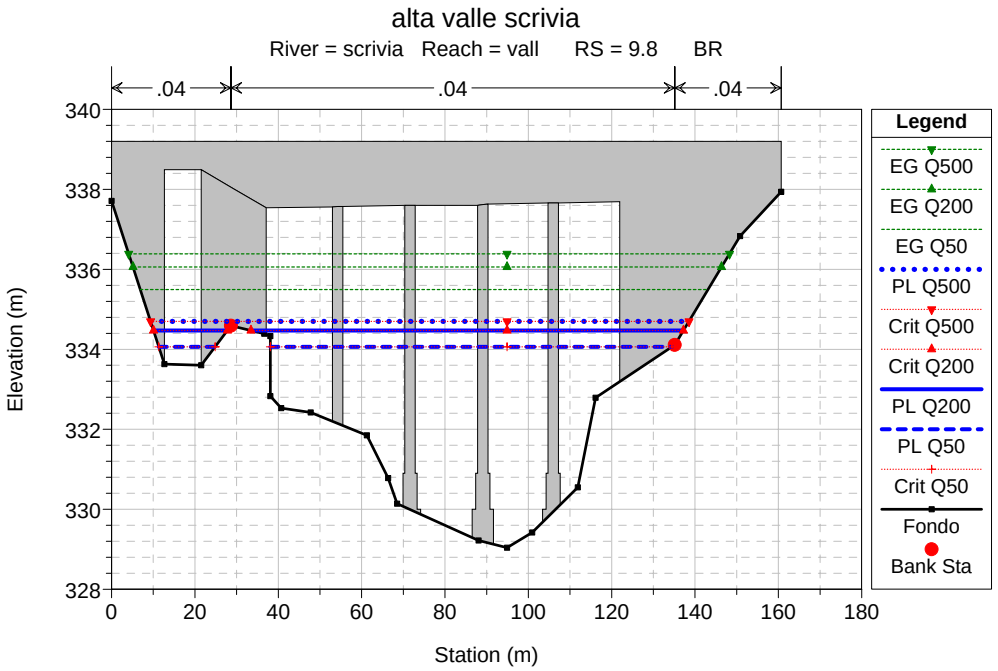
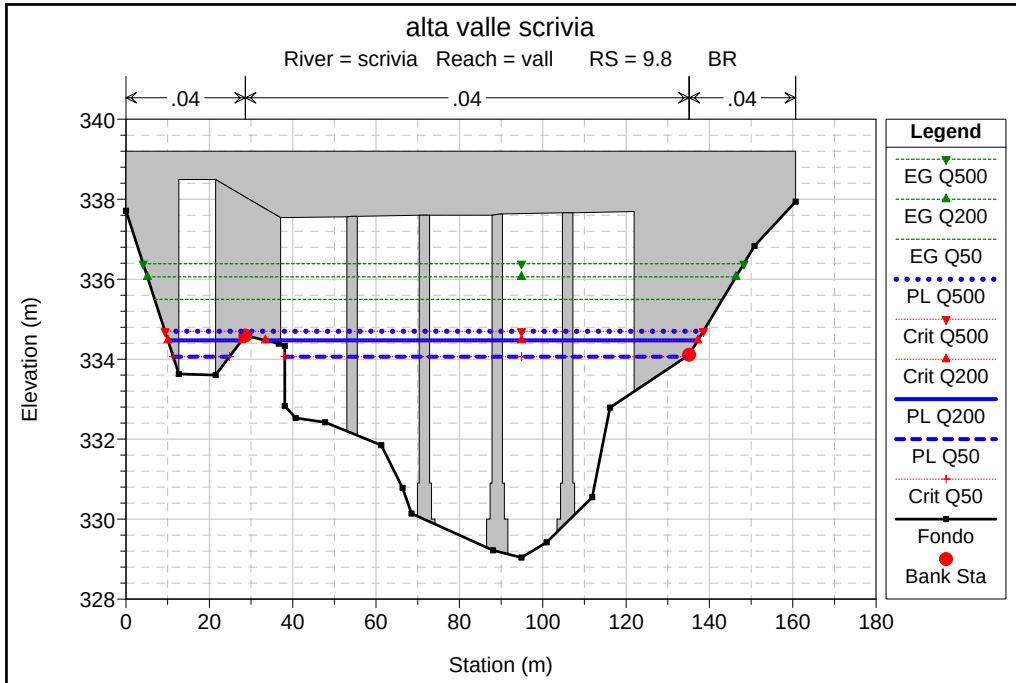
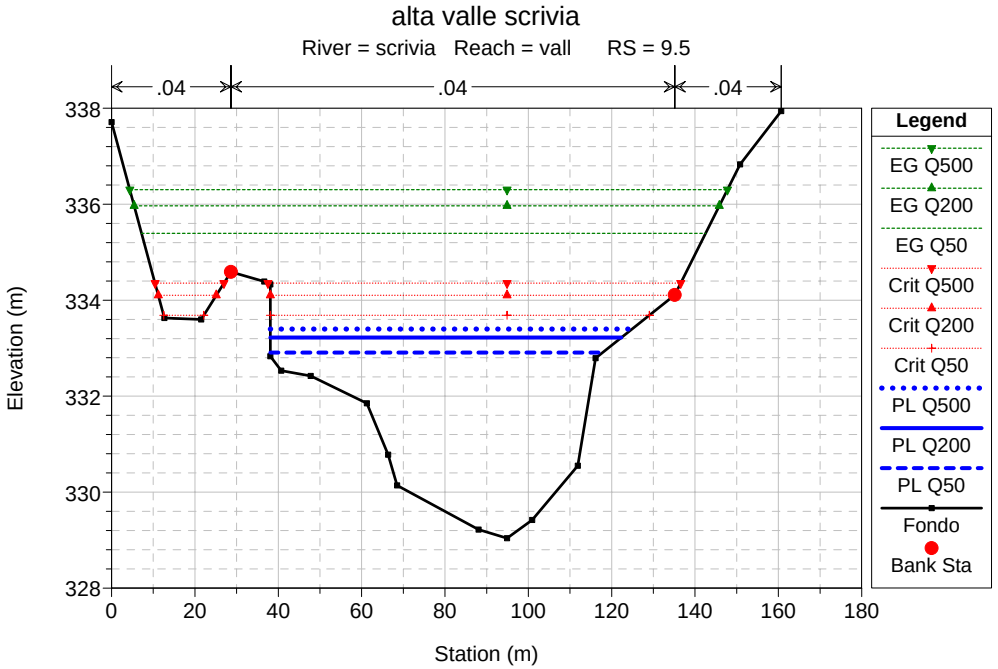
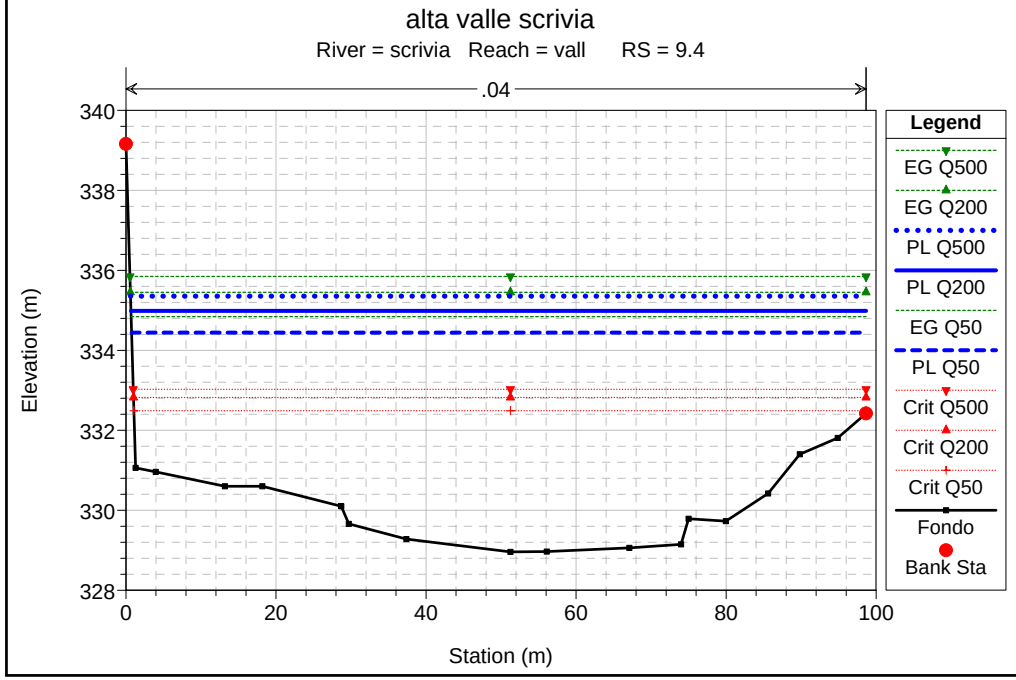
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 10
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 9.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 9.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 9.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 9.4
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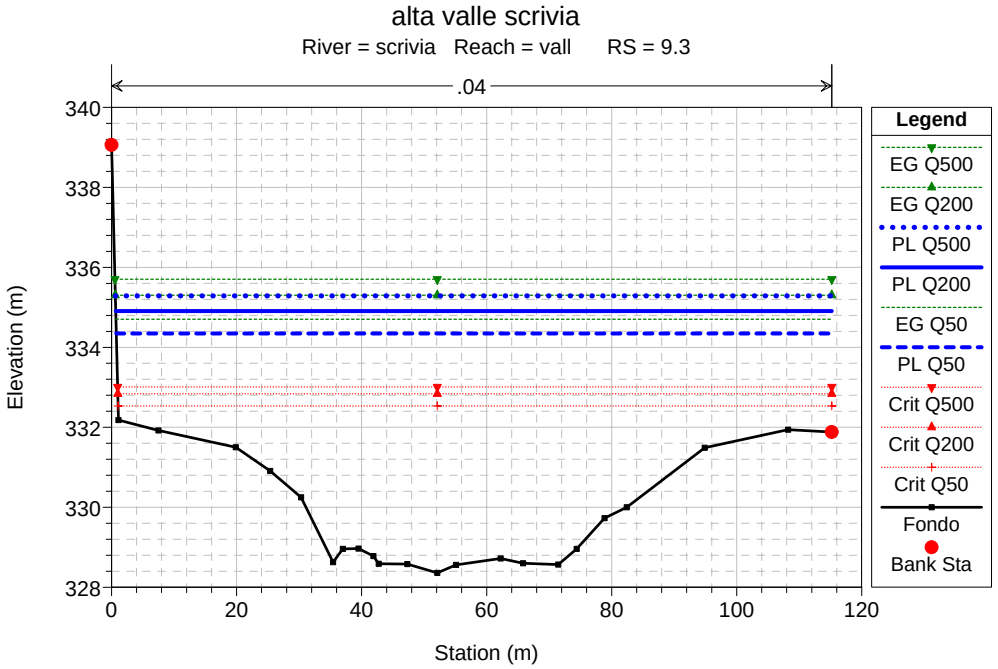
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 9.3
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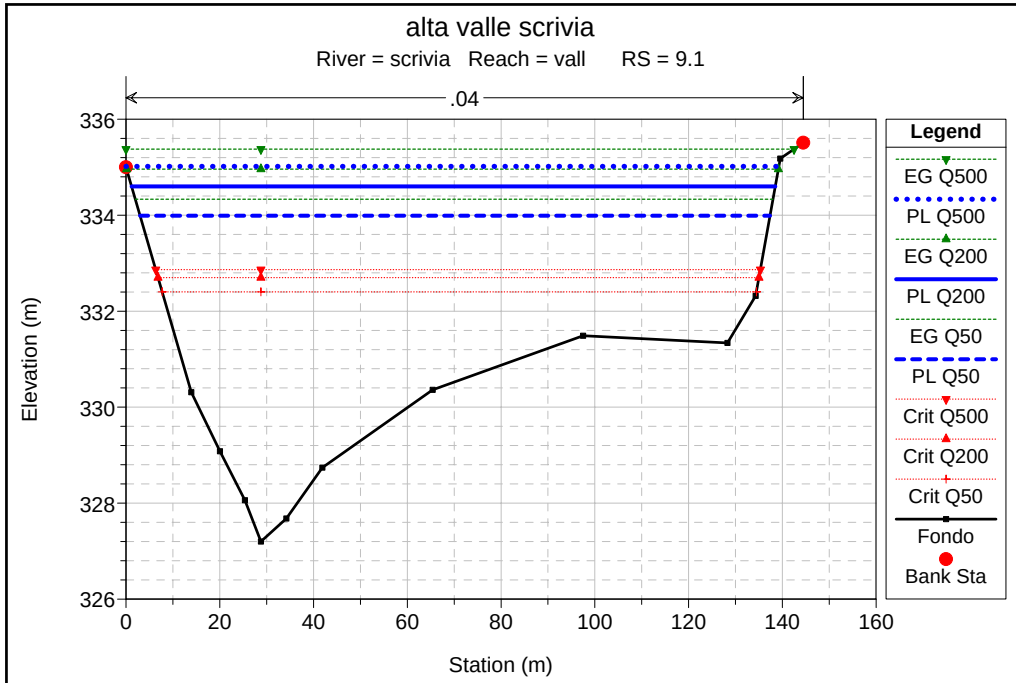
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 9.1
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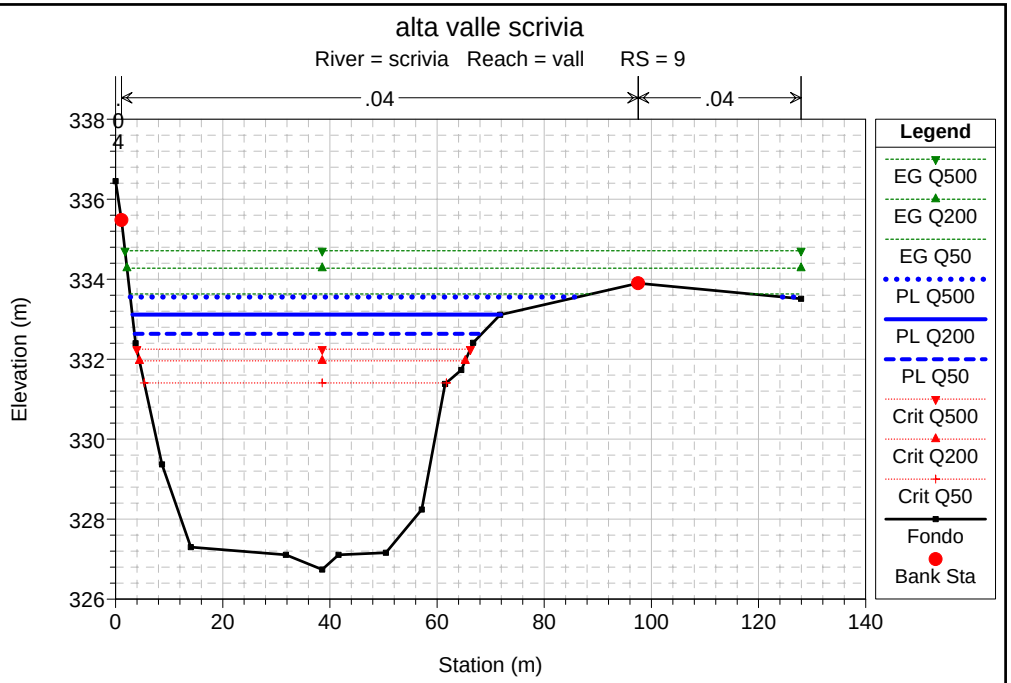
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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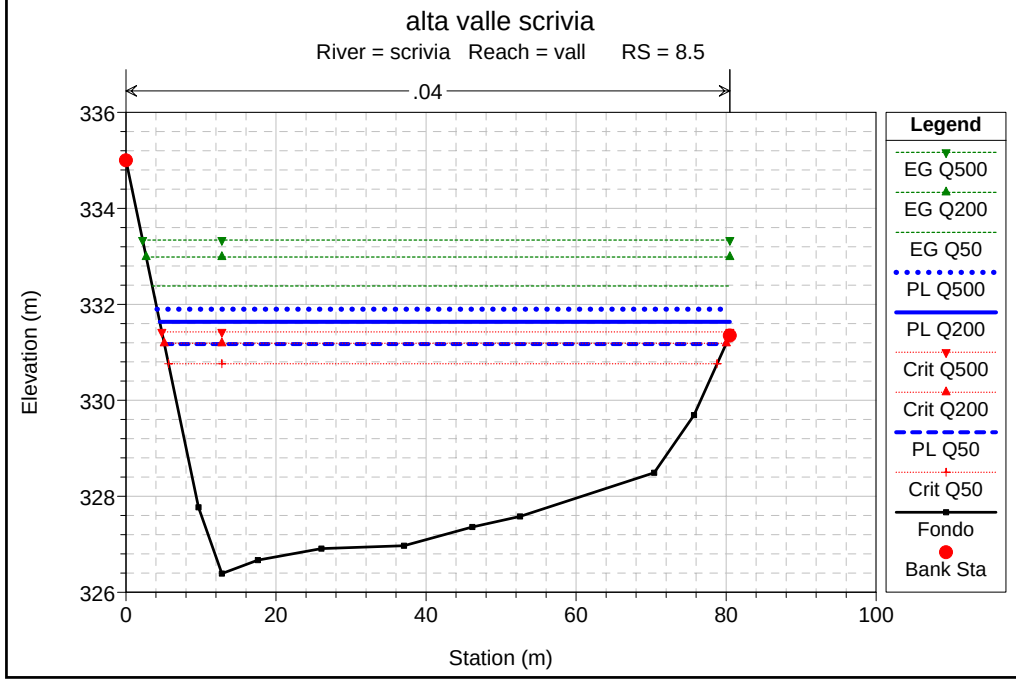
River = scrivia Reach = vall RS = 9
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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River = scrivia Reach = vall RS = 8.5
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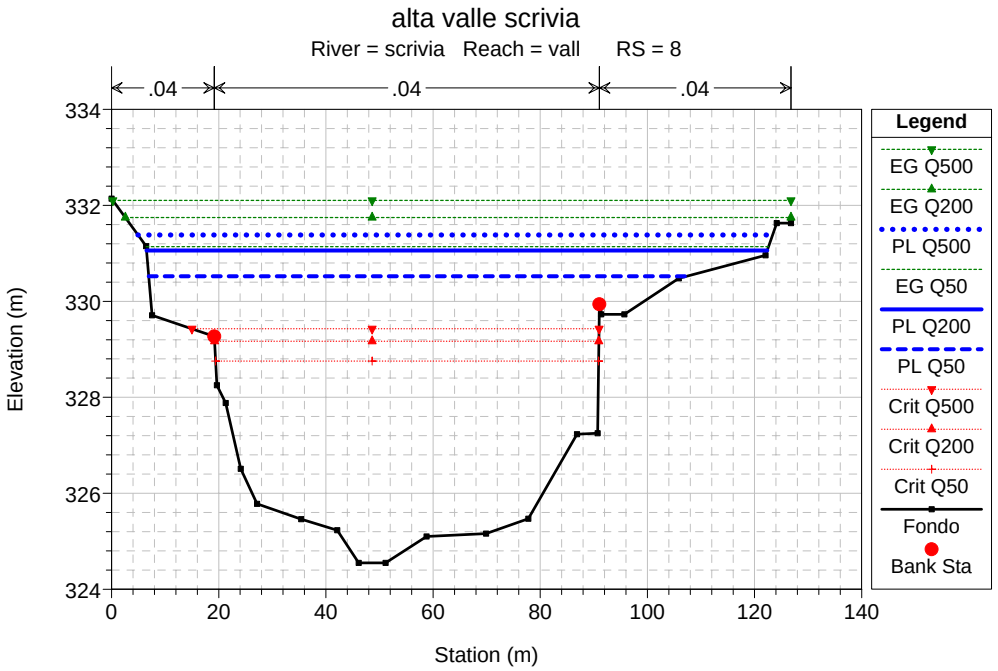
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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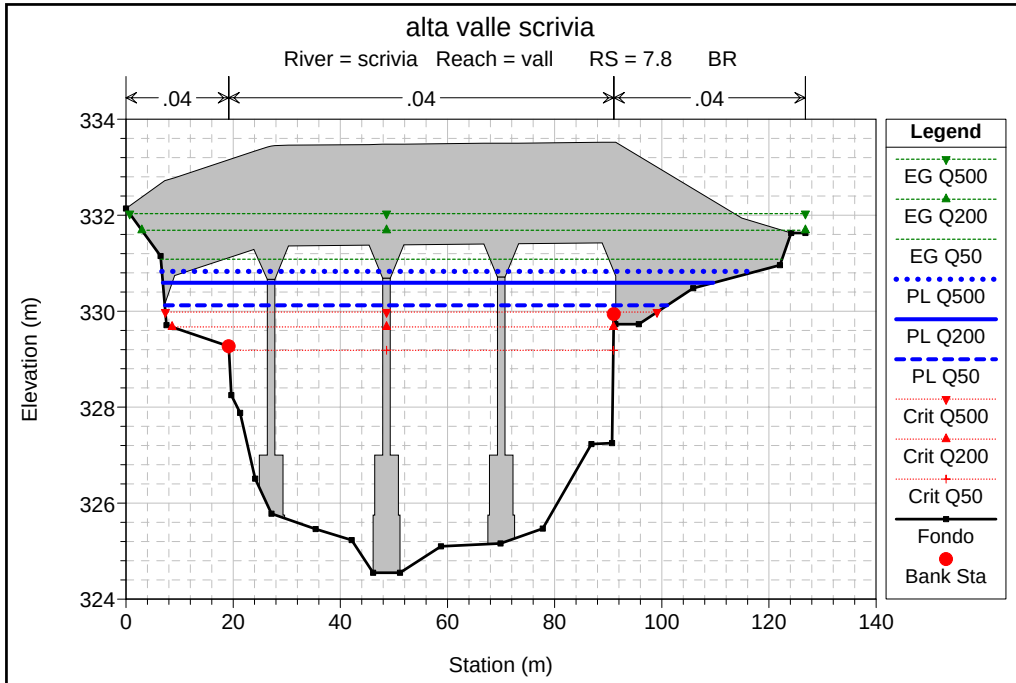
River = scrivia Reach = vall RS = 8
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 7.8 BR
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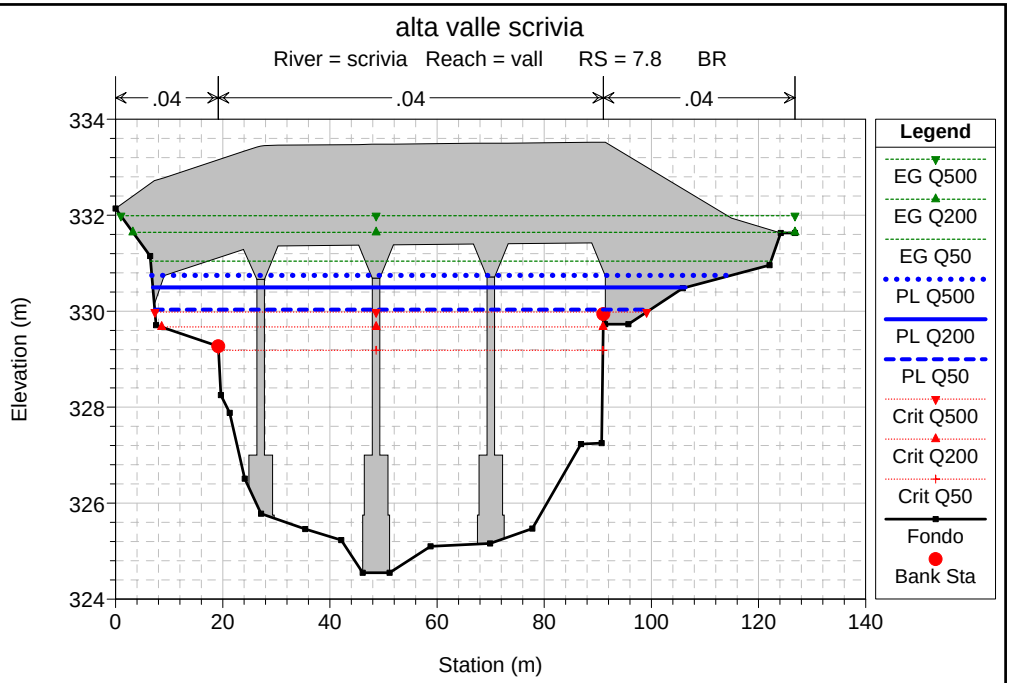
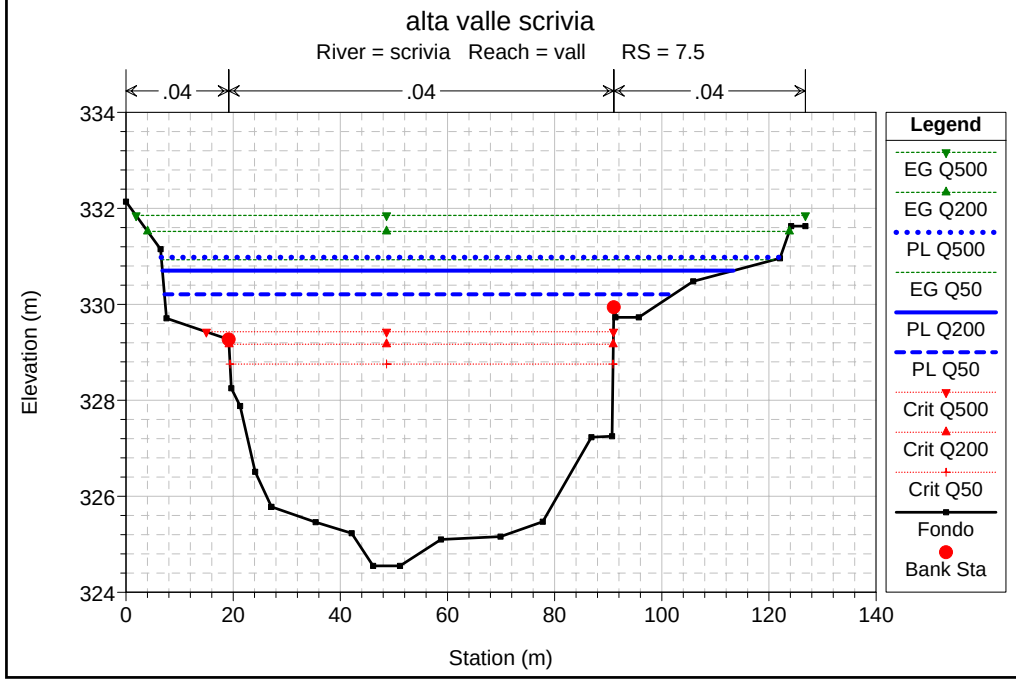
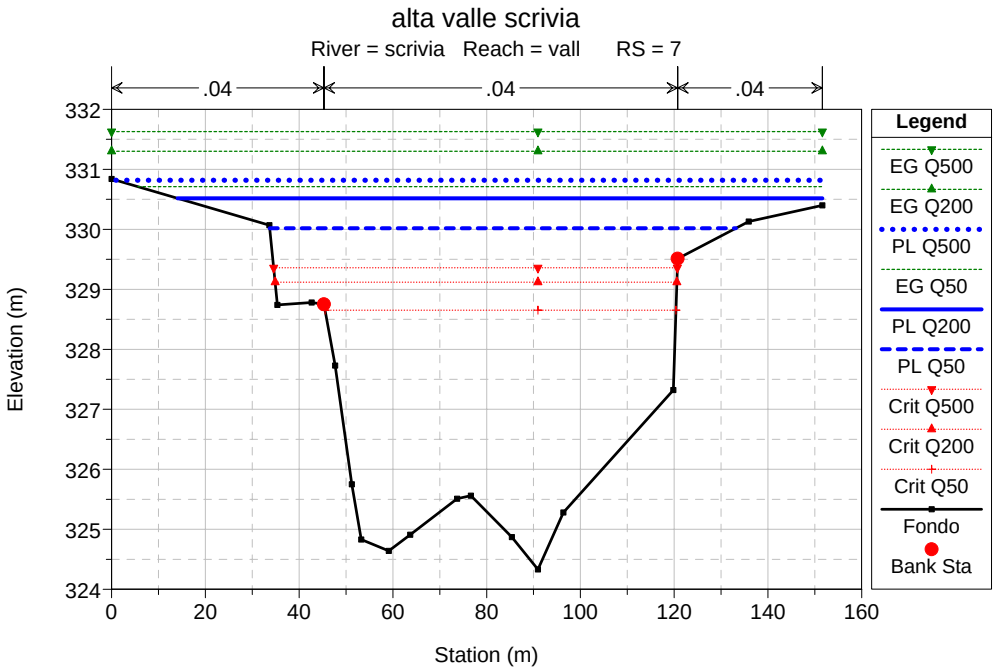
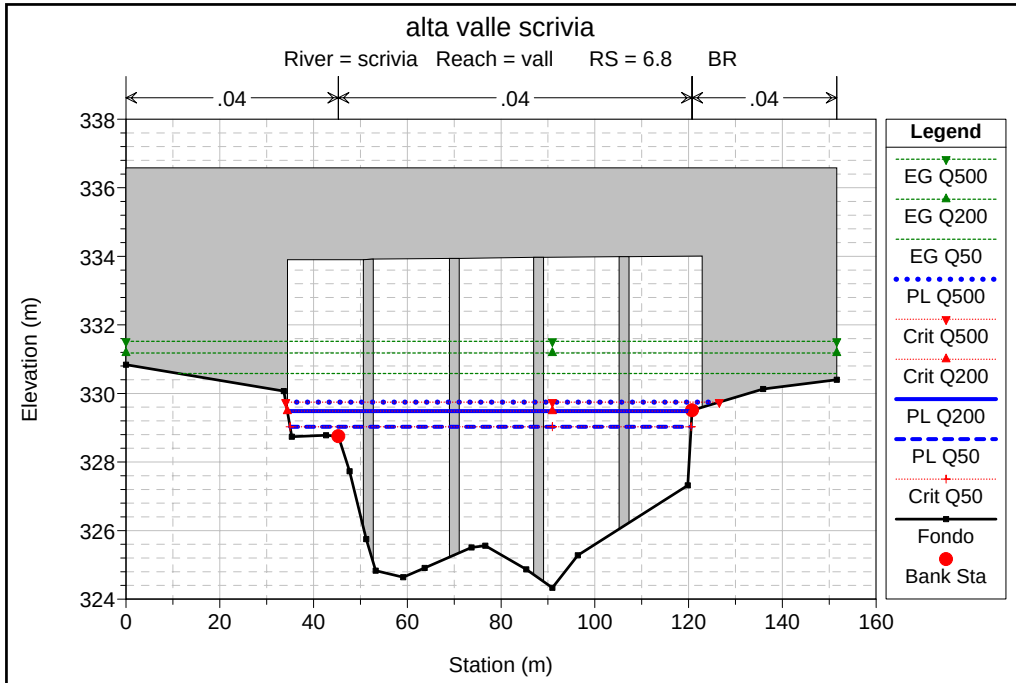
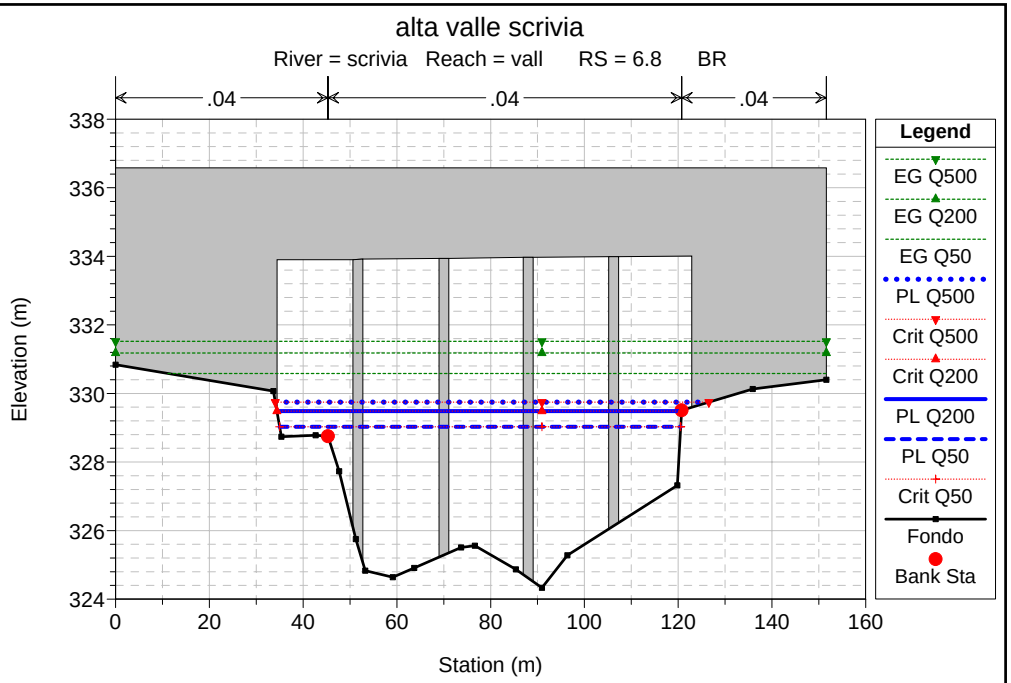
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

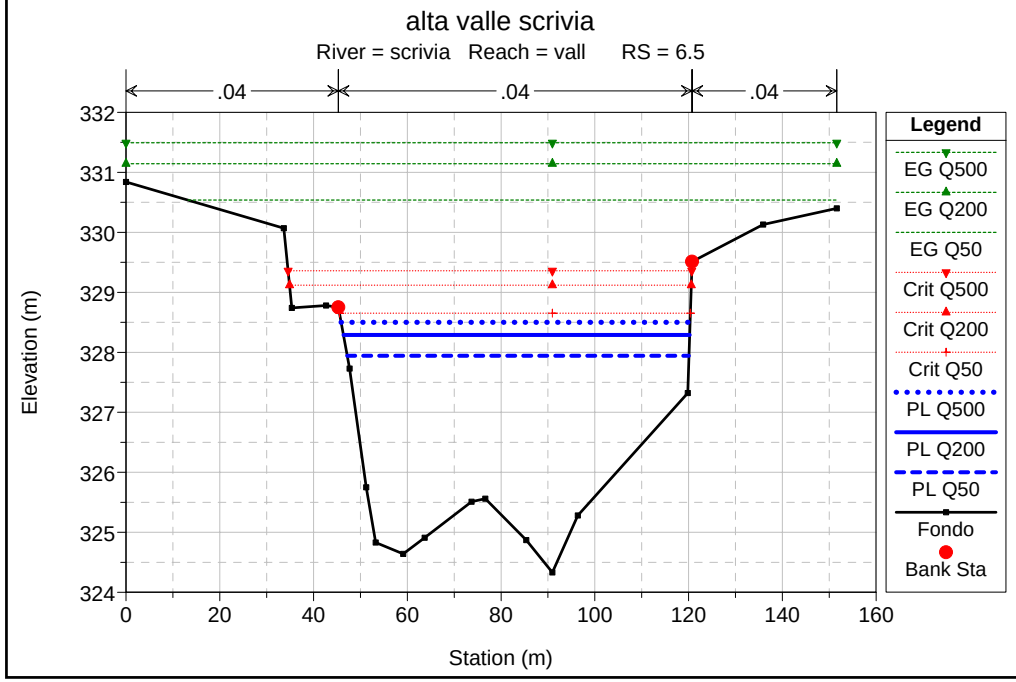

alta valle scrivia
River = scrivia Reach = vall RS = 7.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

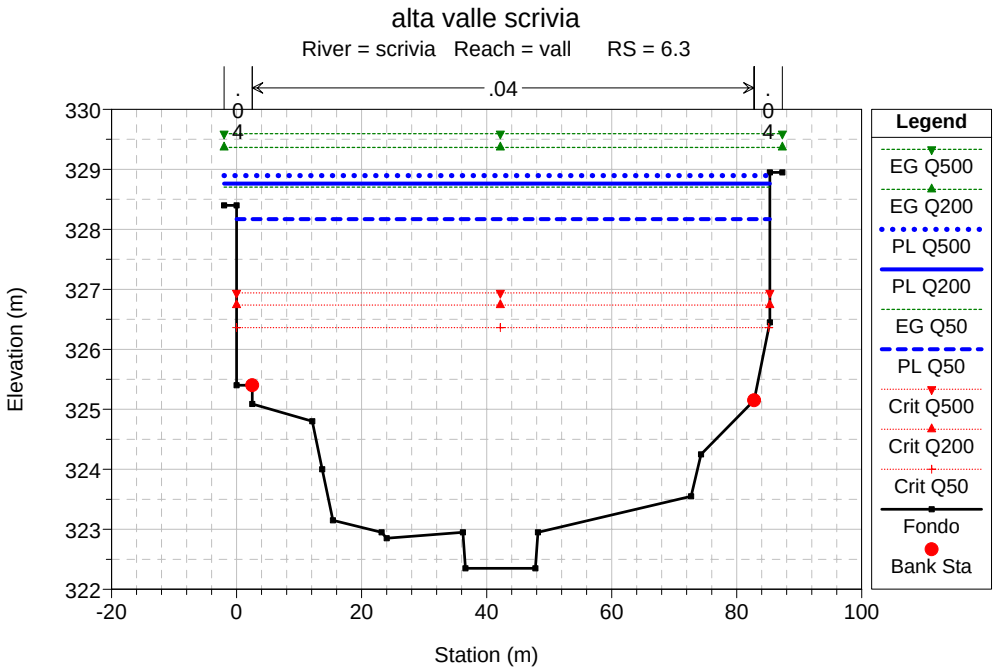

alta valle scrivia
River = scrivia Reach = vall RS = 7.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

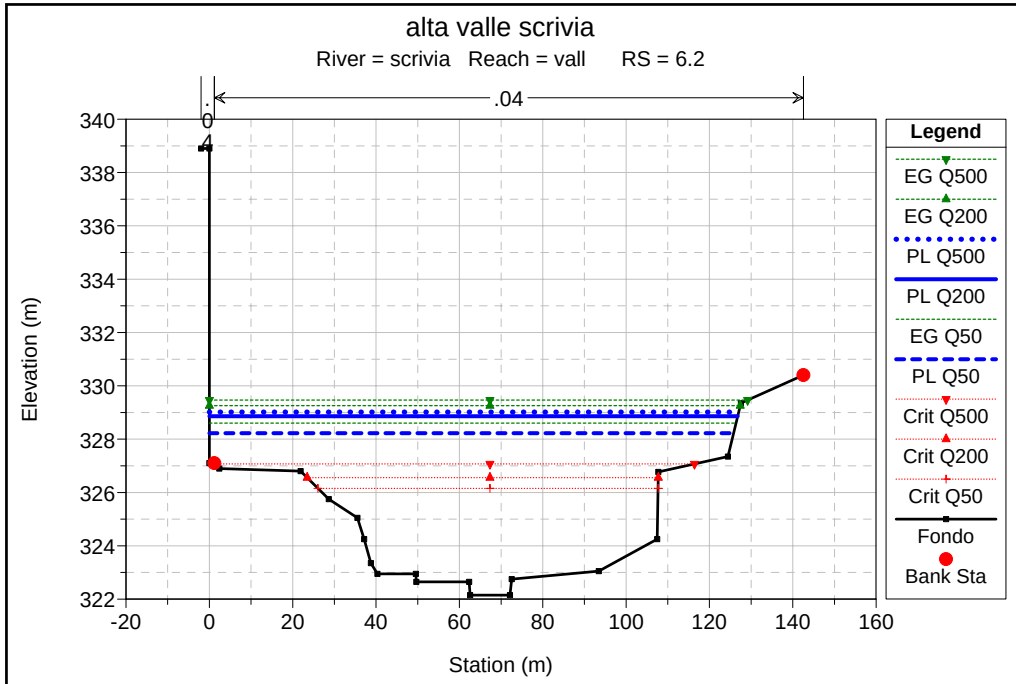

alta valle scrivia
River = scrivia Reach = vall RS = 7
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

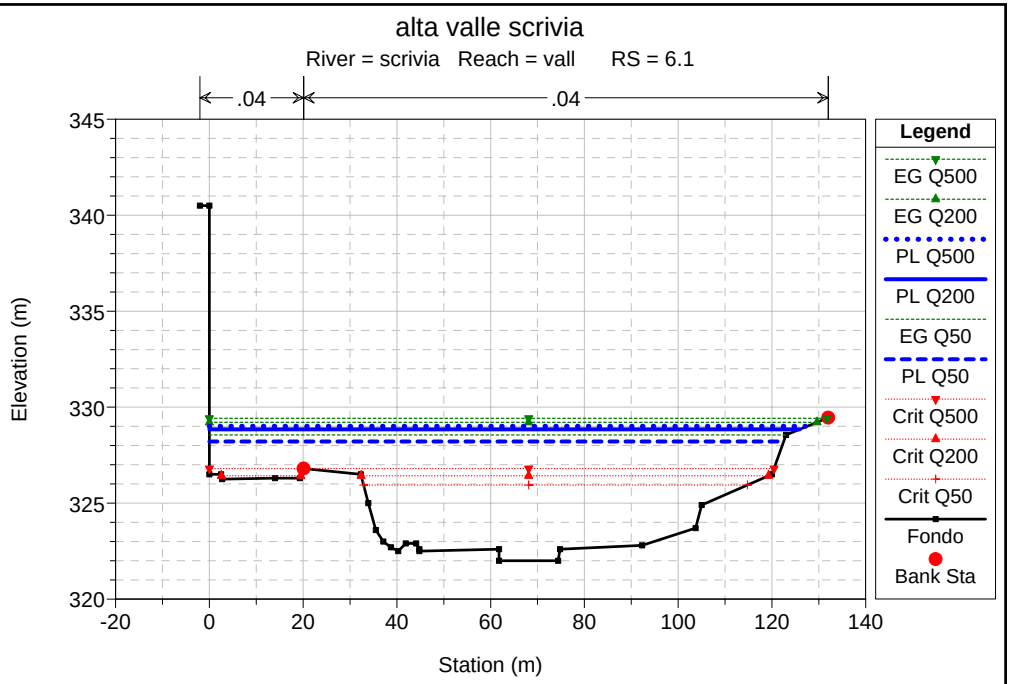

alta valle scrivia
River = scrivia Reach = vall RS = 6.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

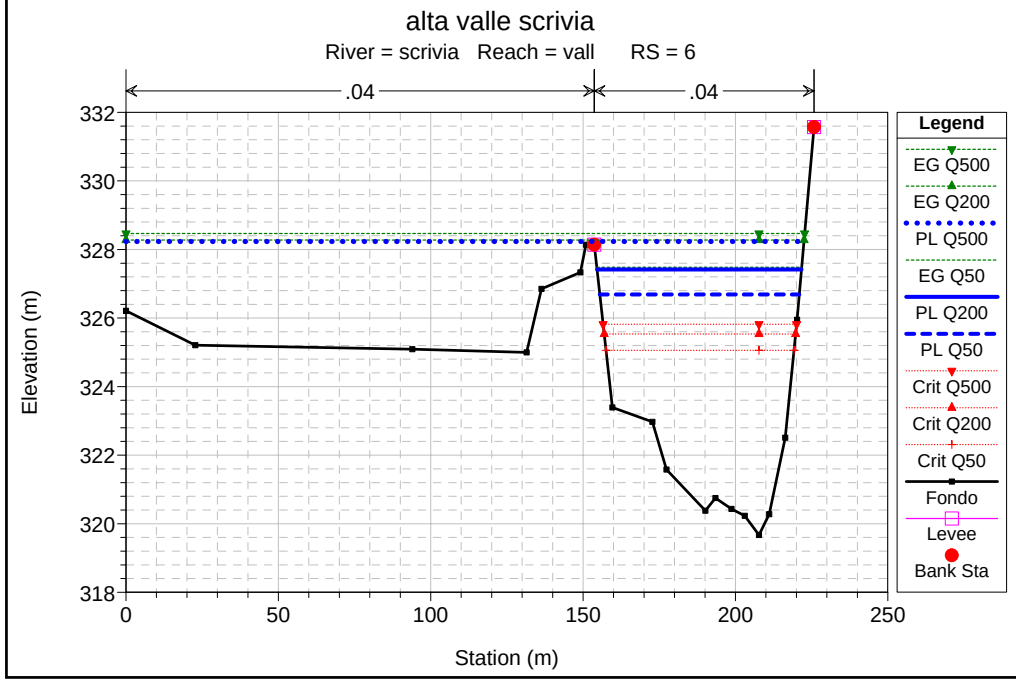

alta valle scrivia
River = scrivia Reach = vall RS = 6.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

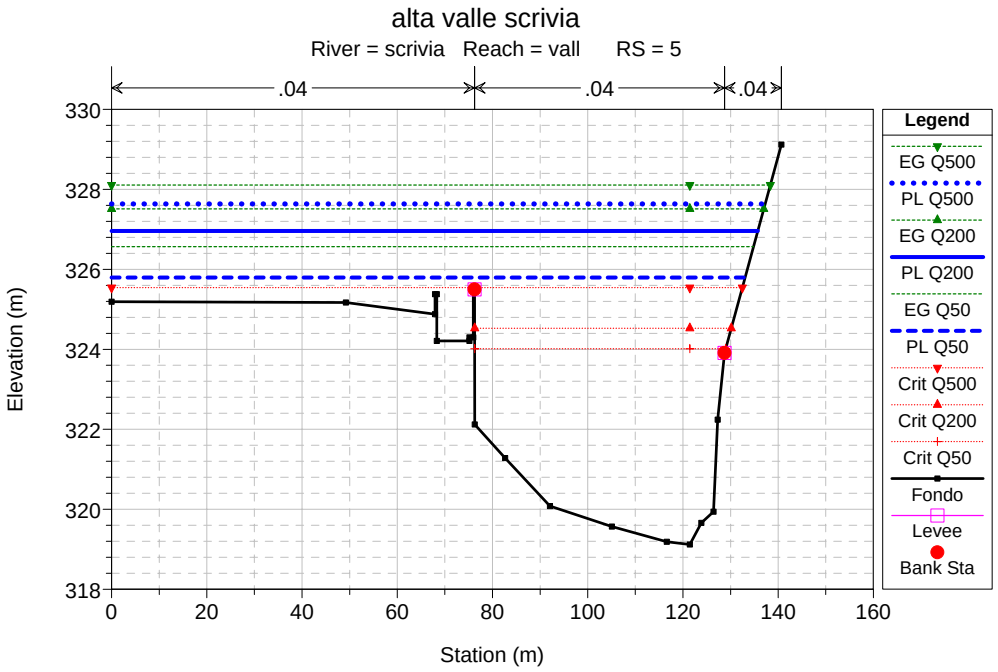

alta valle scrivia
River = scrivia Reach = vall RS = 6.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

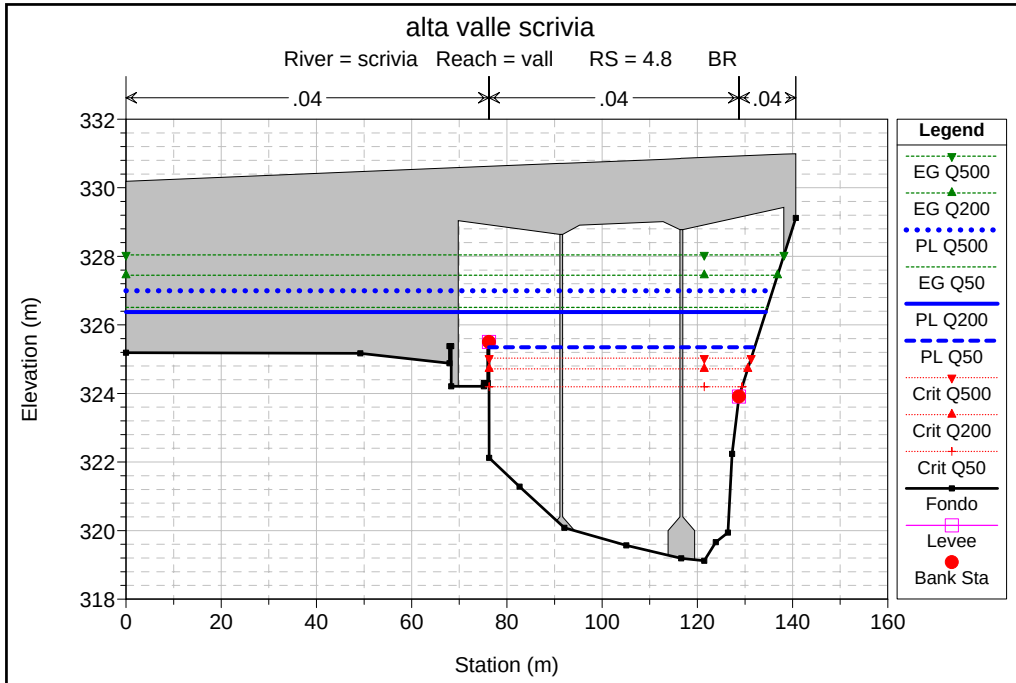

alta valle scrivia
River = scrivia Reach = vall RS = 6.3
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

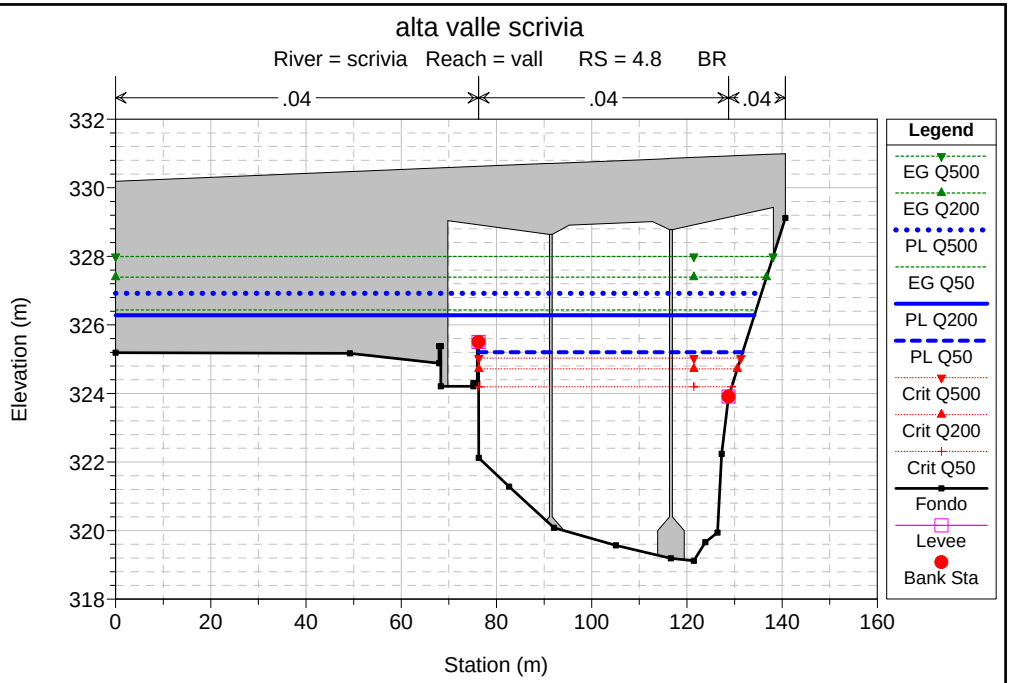

alta valle scrivia
River = scrivia Reach = vall RS = 6.2
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

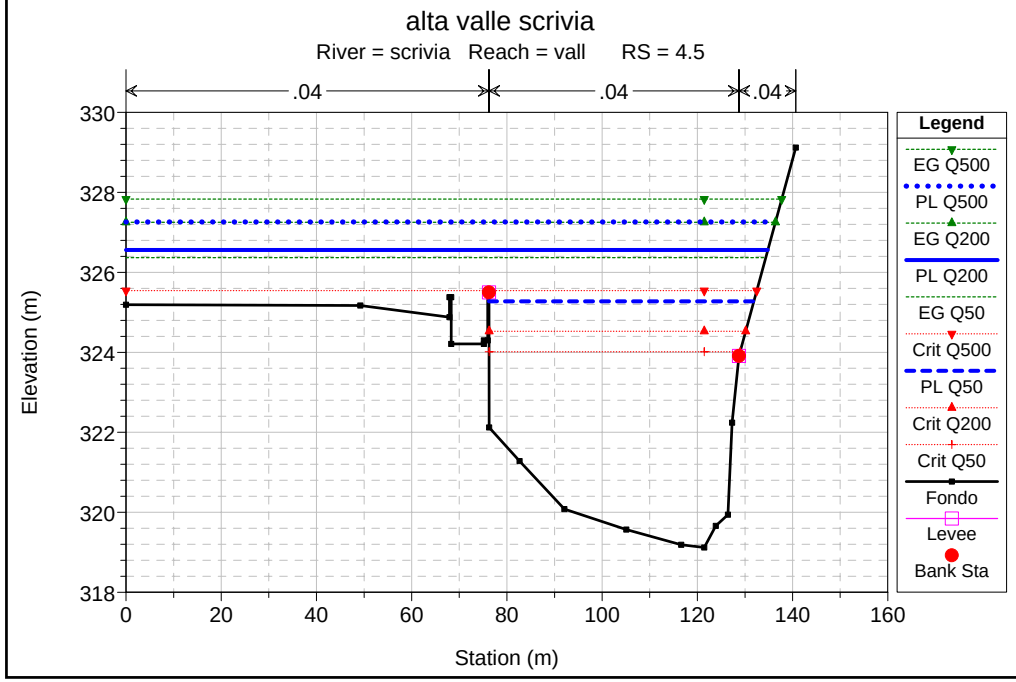

alta valle scrivia
River = scrivia Reach = vall RS = 6.1
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

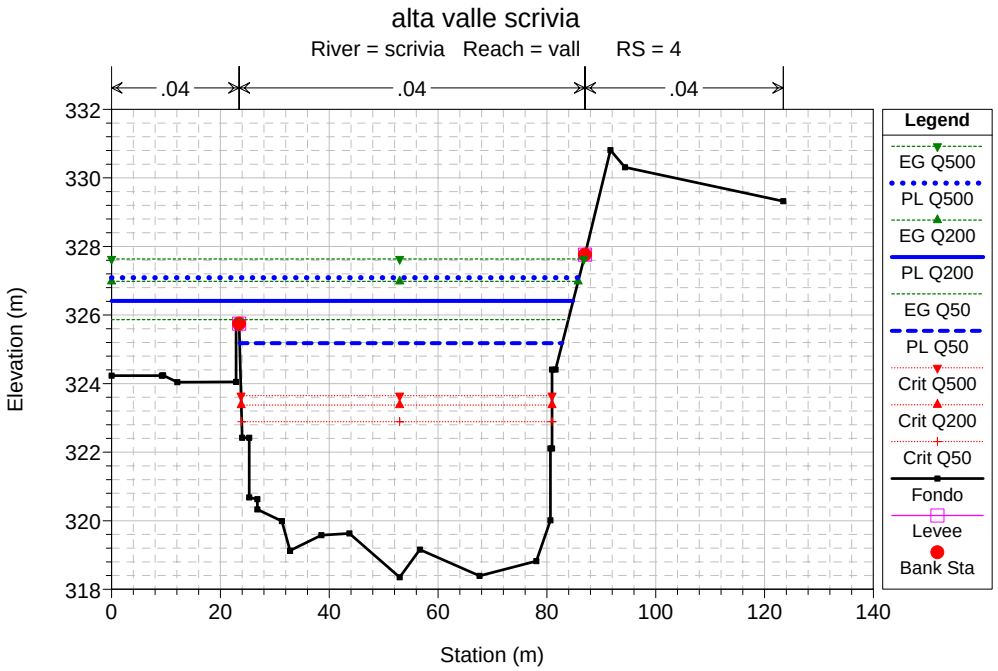

alta valle scrivia
River = scrivia Reach = vall RS = 6
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

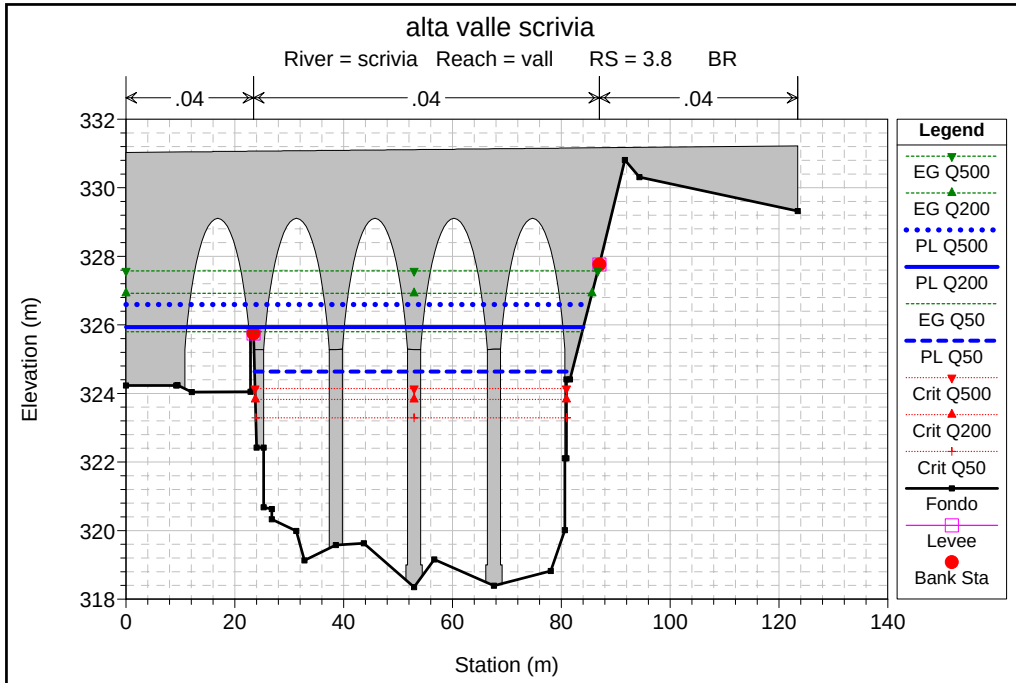

alta valle scrivia
River = scrivia Reach = vall RS = 5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

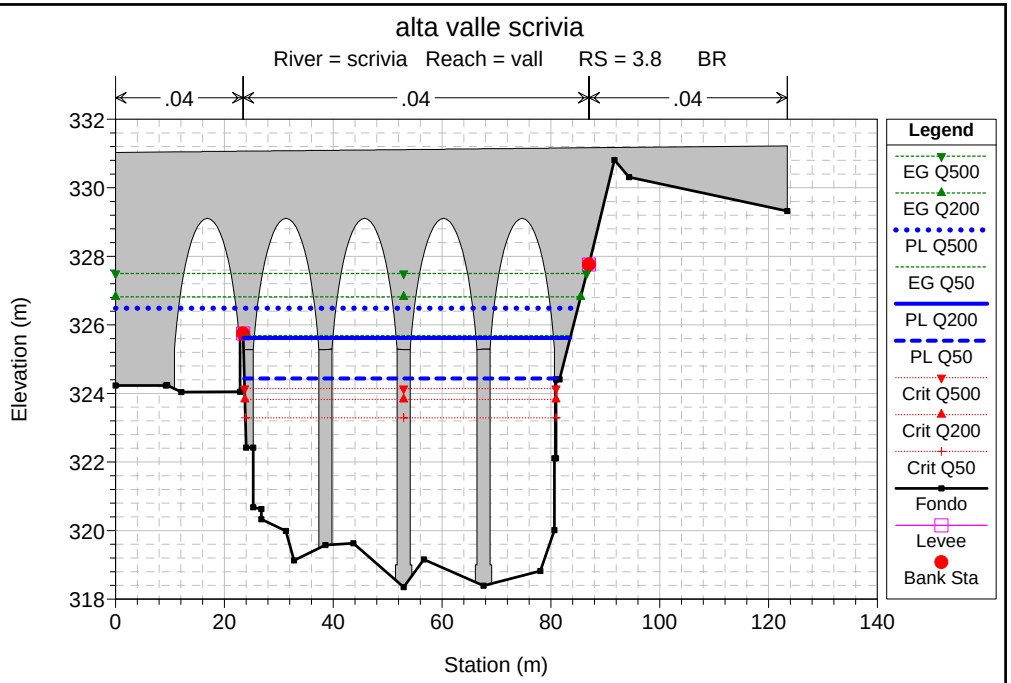

alta valle scrivia
River = scrivia Reach = vall RS = 4.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

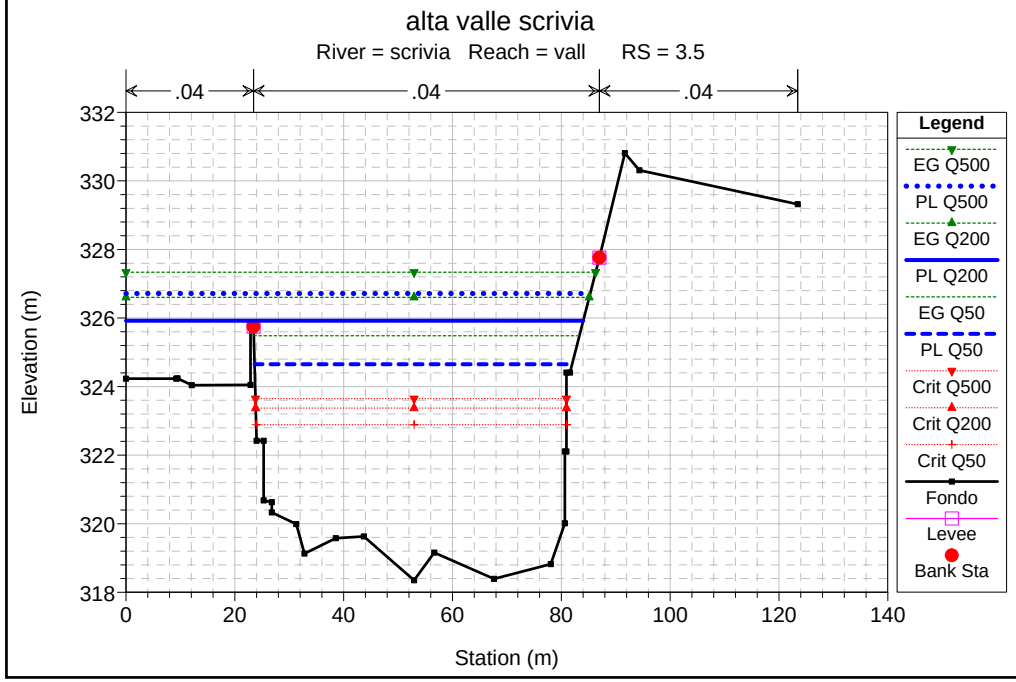

alta valle scrivia
River = scrivia Reach = vall RS = 4.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta

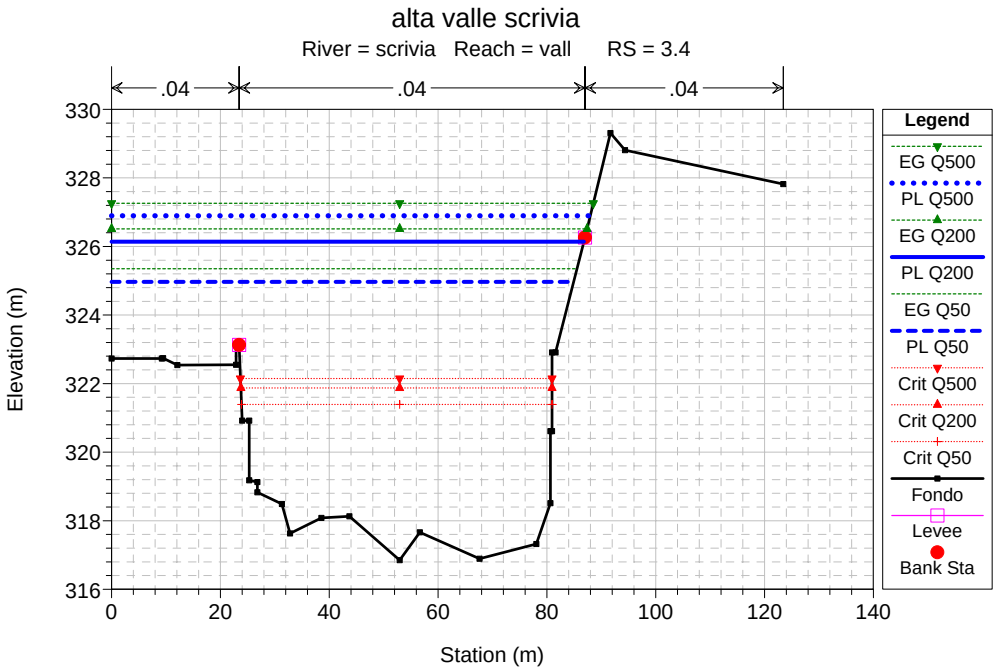

alta valle scrivia
River = scrivia Reach = vall RS = 4.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 3.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 3.8 BR
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 3.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 3.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
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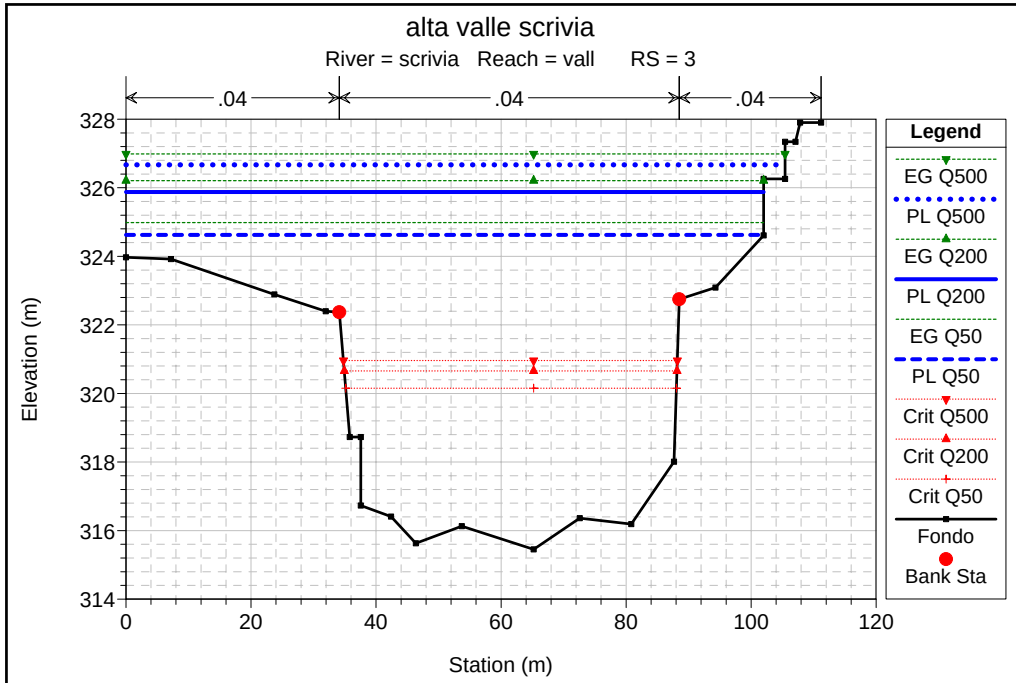
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta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River = scrivia Reach = vall RS = 3
.04
.04
.04
Elevation (m)
Station (m)
Legend
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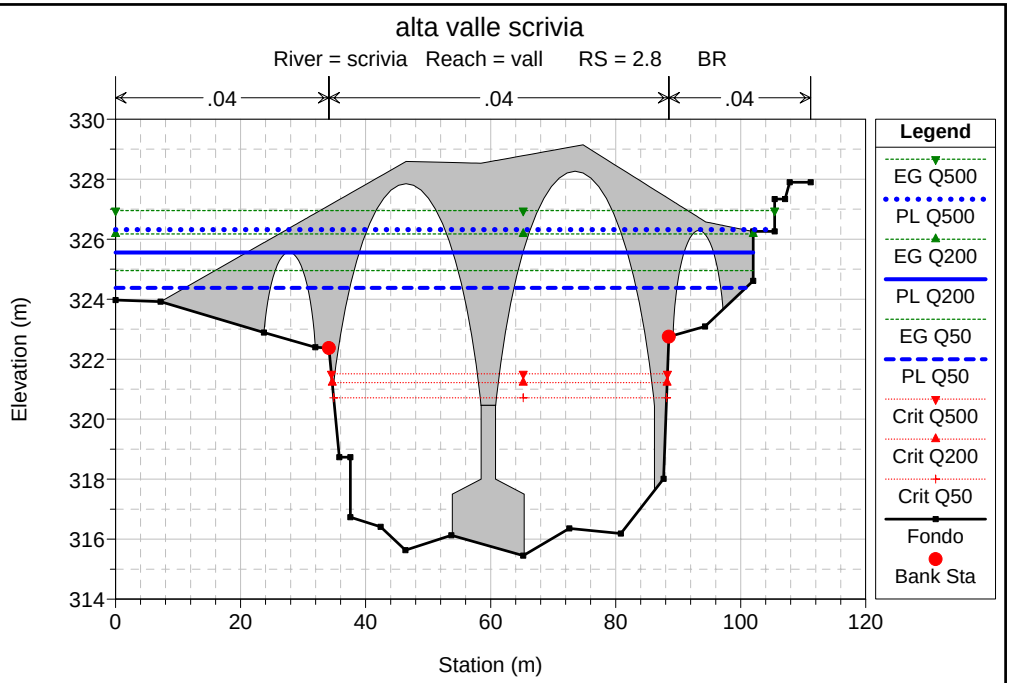
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
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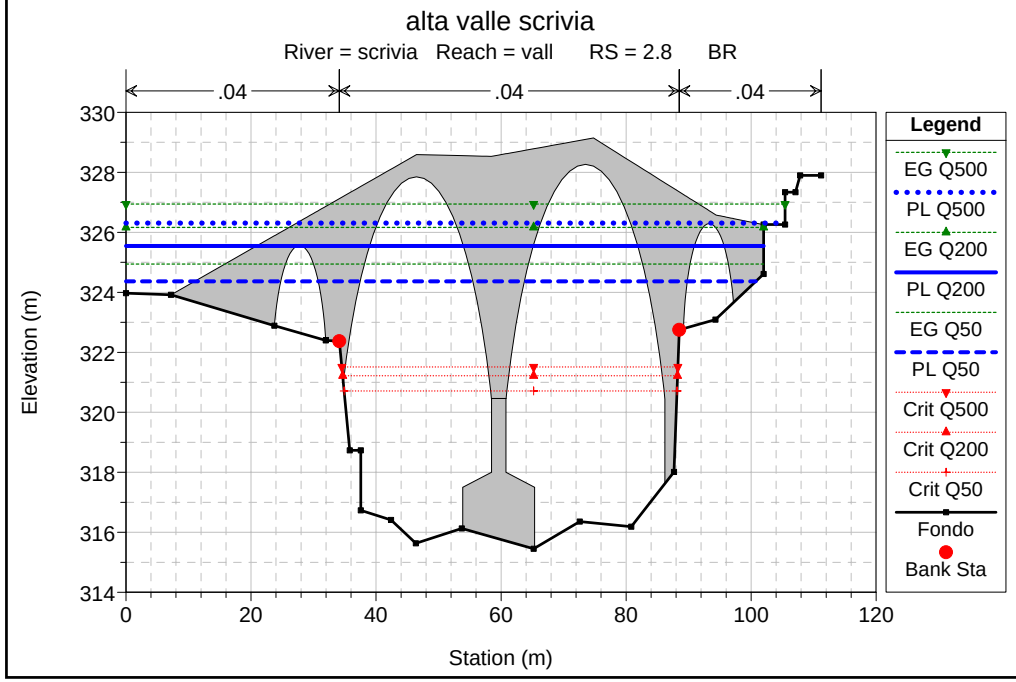
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 2.8 BR
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.04
.04
Elevation (m)
Station (m)
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EG Q200
PL Q200
EG Q50
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Crit Q500
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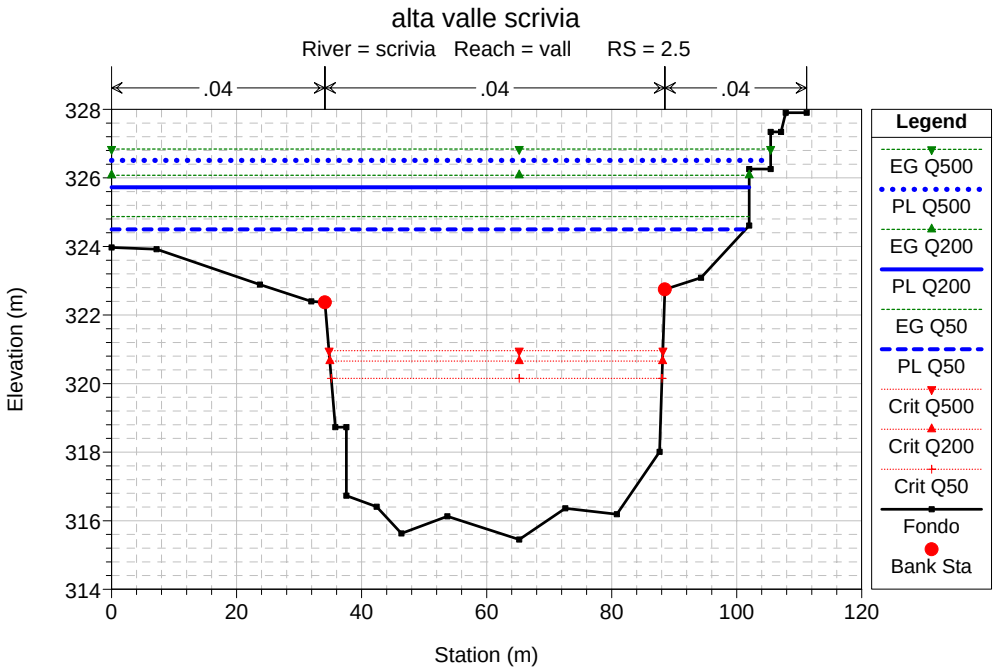
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 2.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
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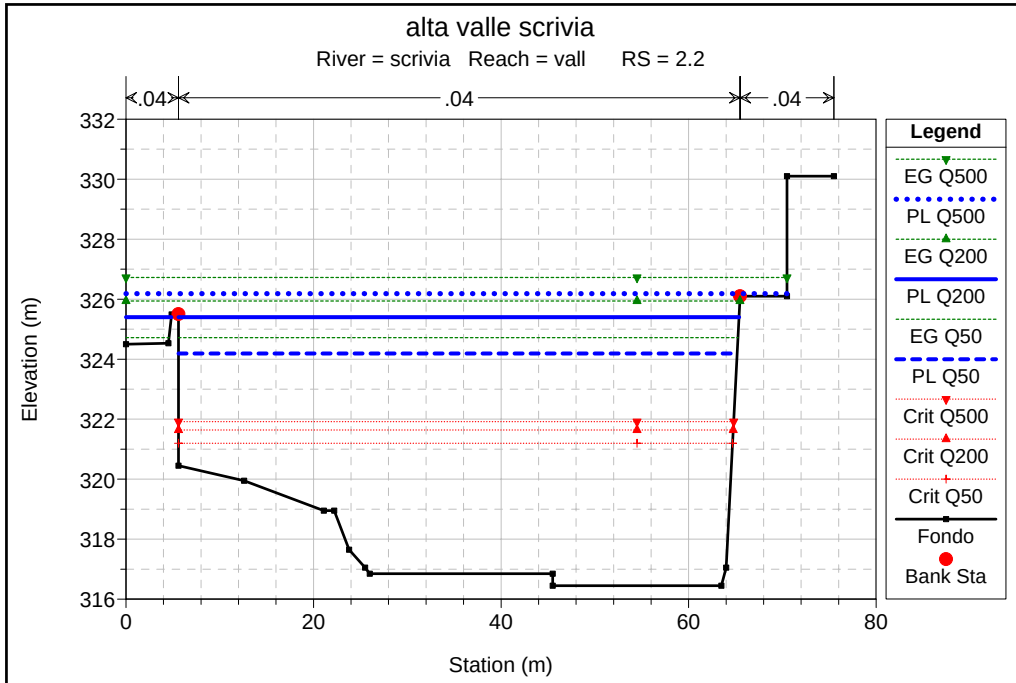
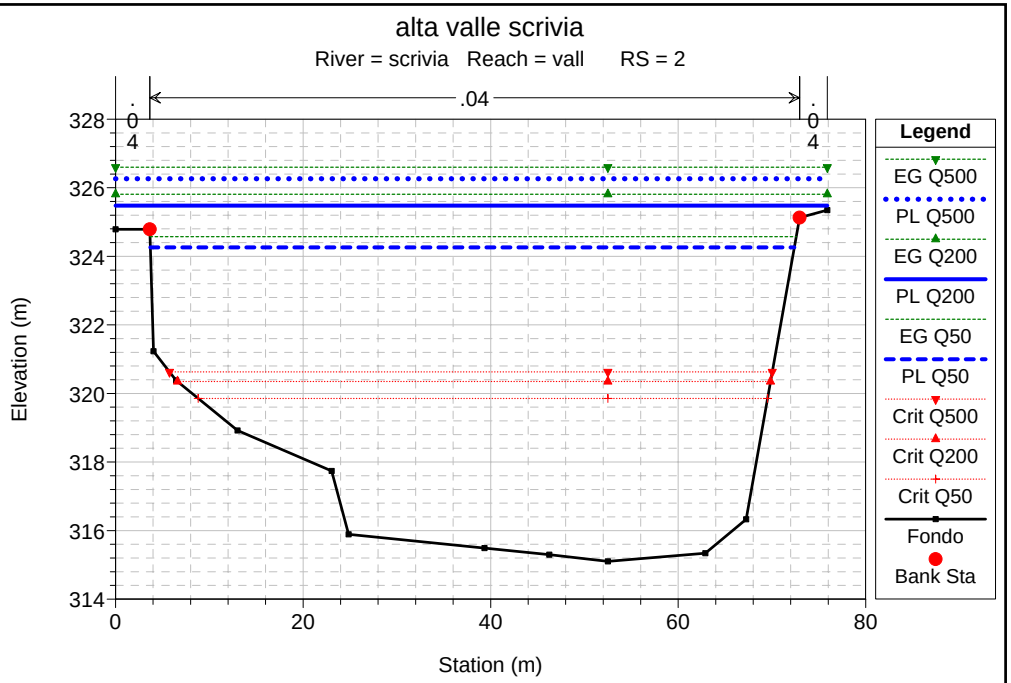
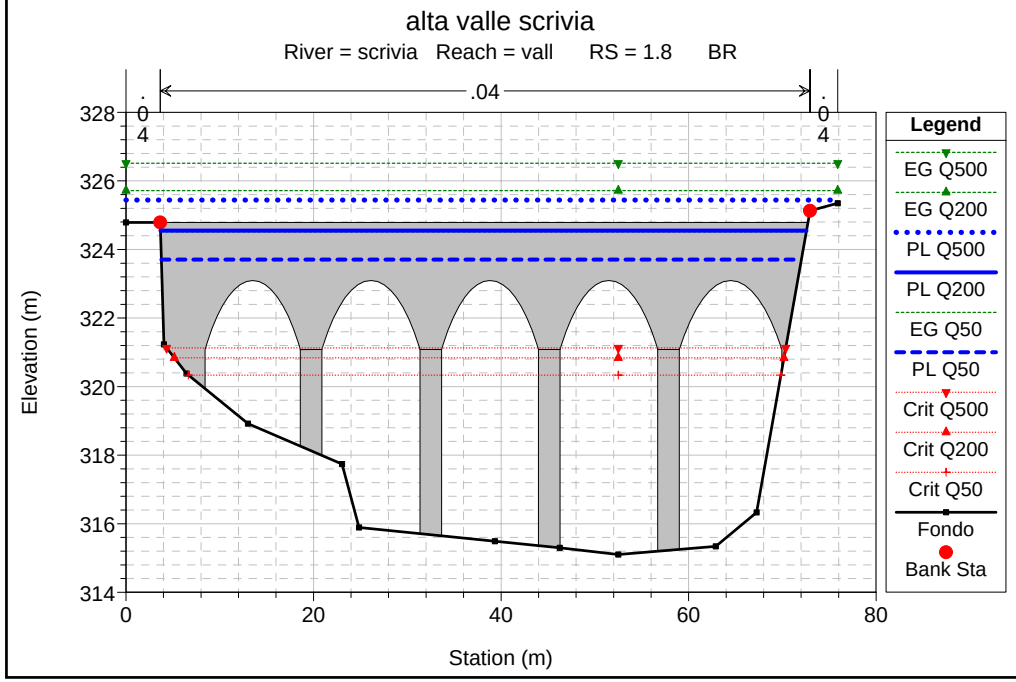
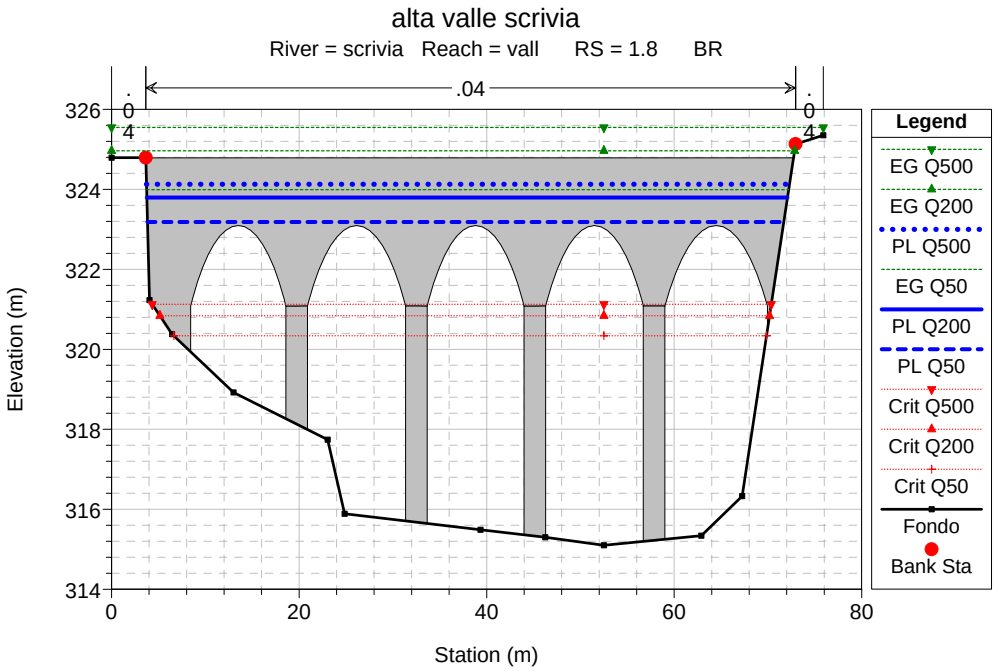
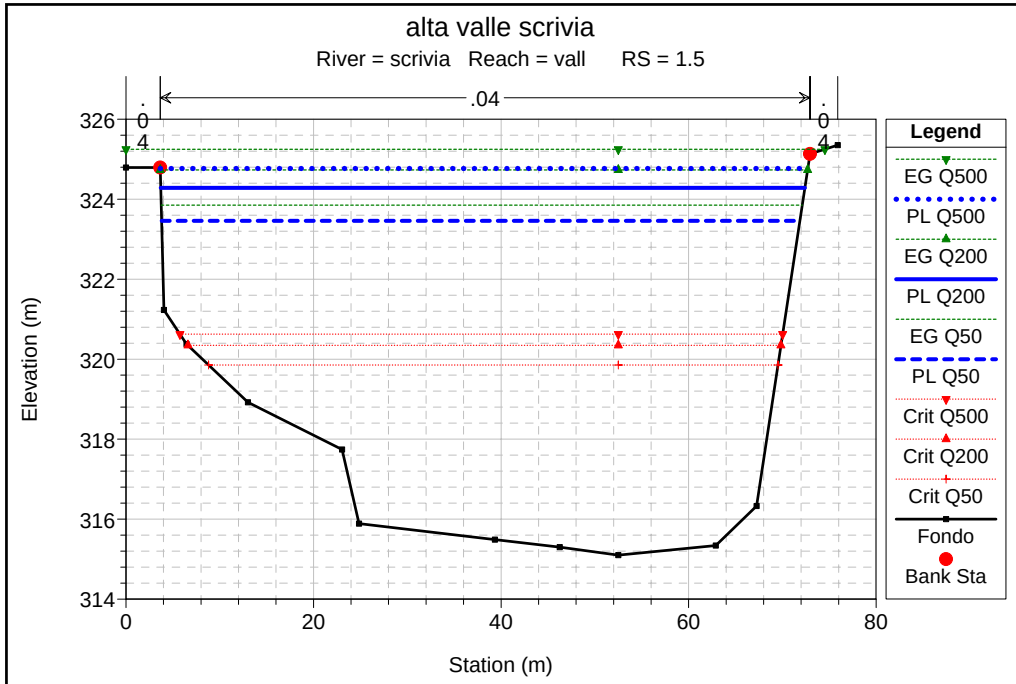
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

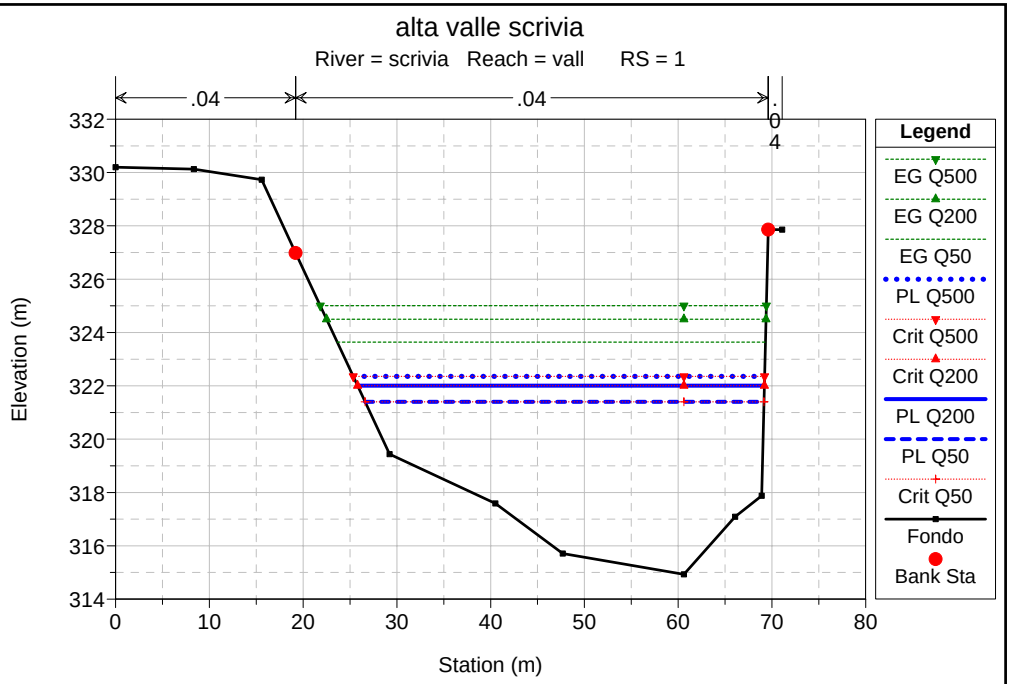

alta valle scrivia
River = scrivia Reach = vall RS = 2.2
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

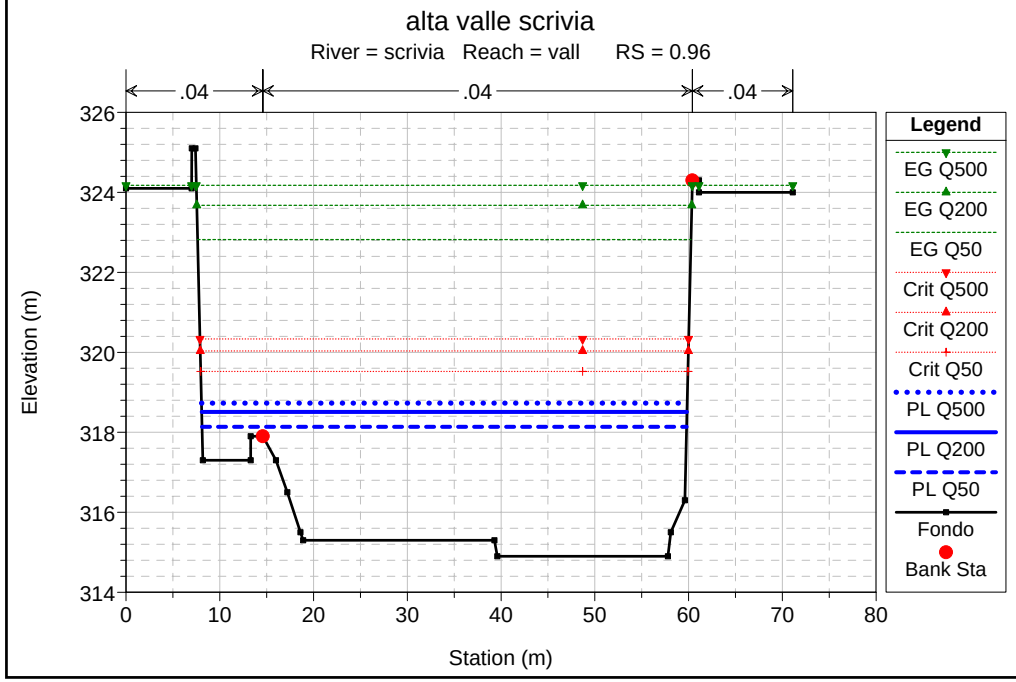

alta valle scrivia
River = scrivia Reach = vall RS = 2
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

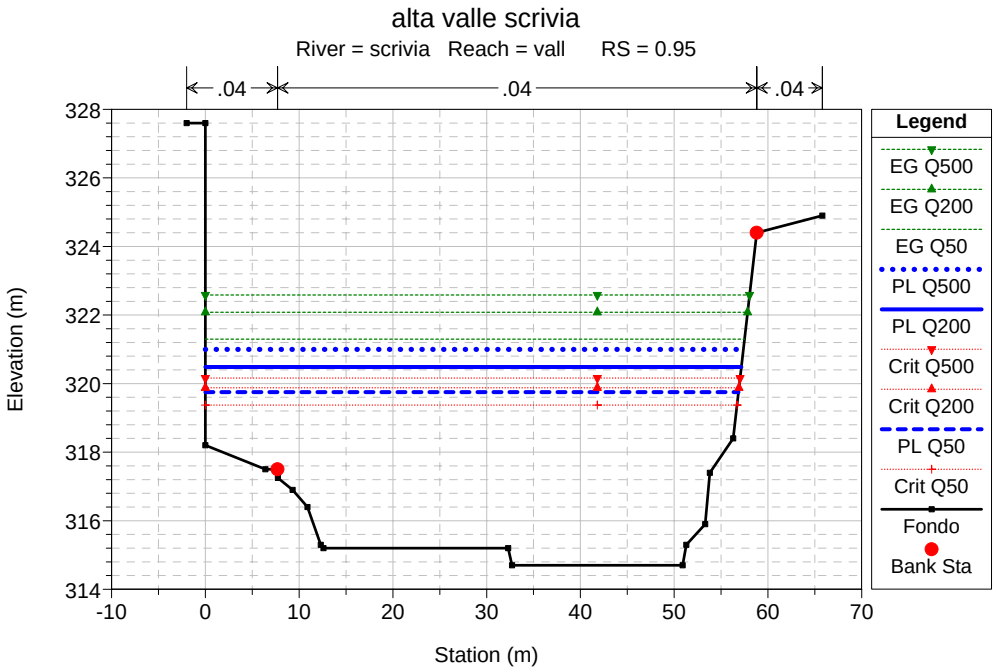

alta valle scrivia
River = scrivia Reach = vall RS = 1.8 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

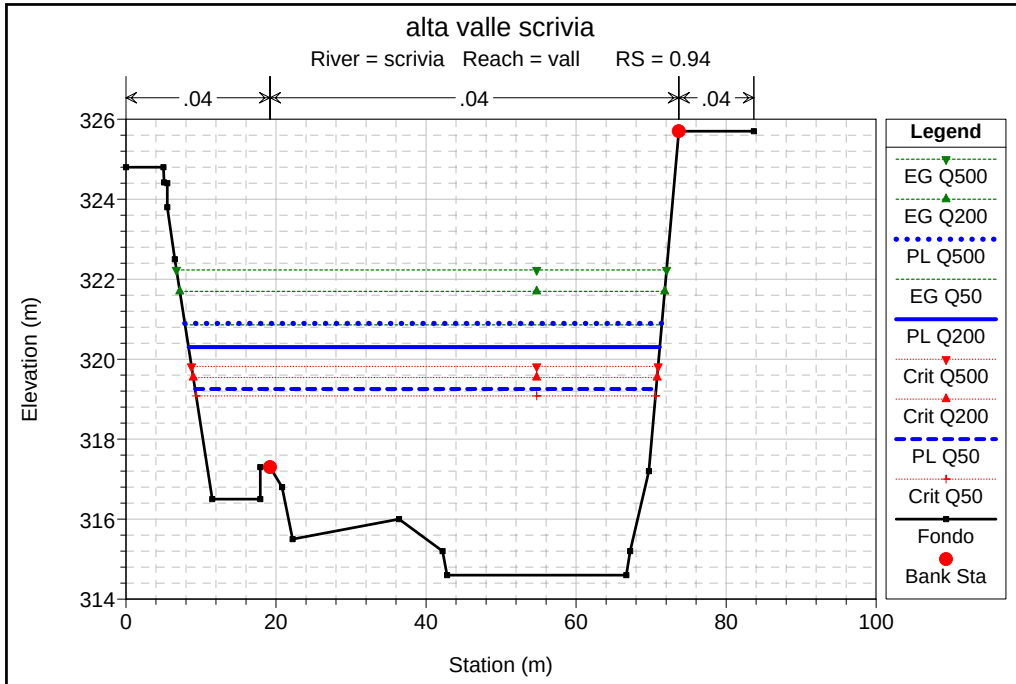

alta valle scrivia
River = scrivia Reach = vall RS = 1.8 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

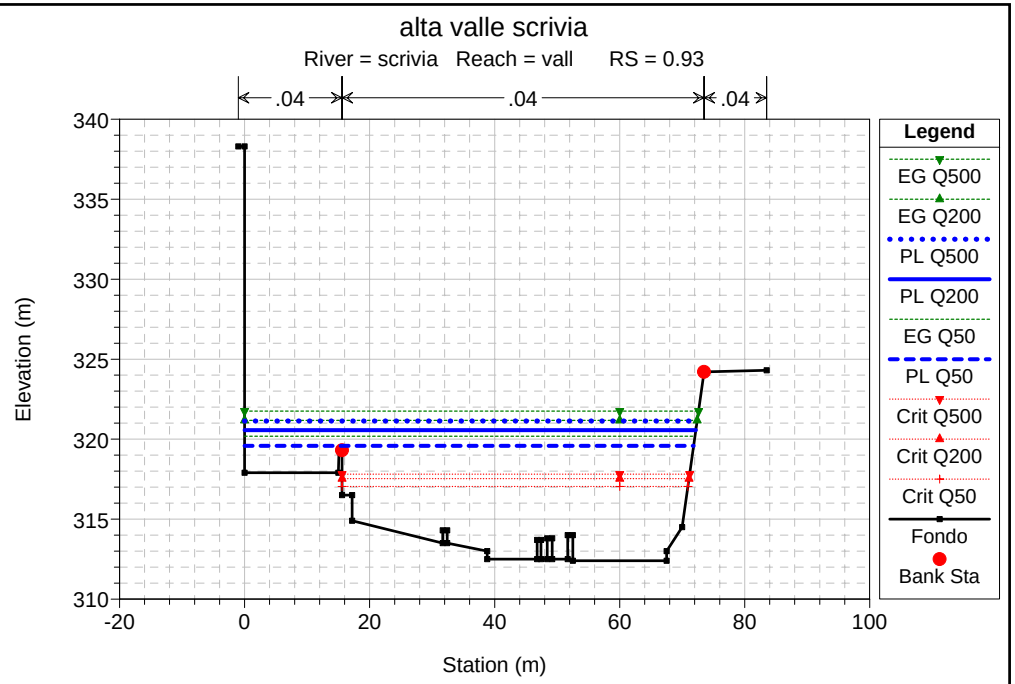

alta valle scrivia
River = scrivia Reach = vall RS = 1.5
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

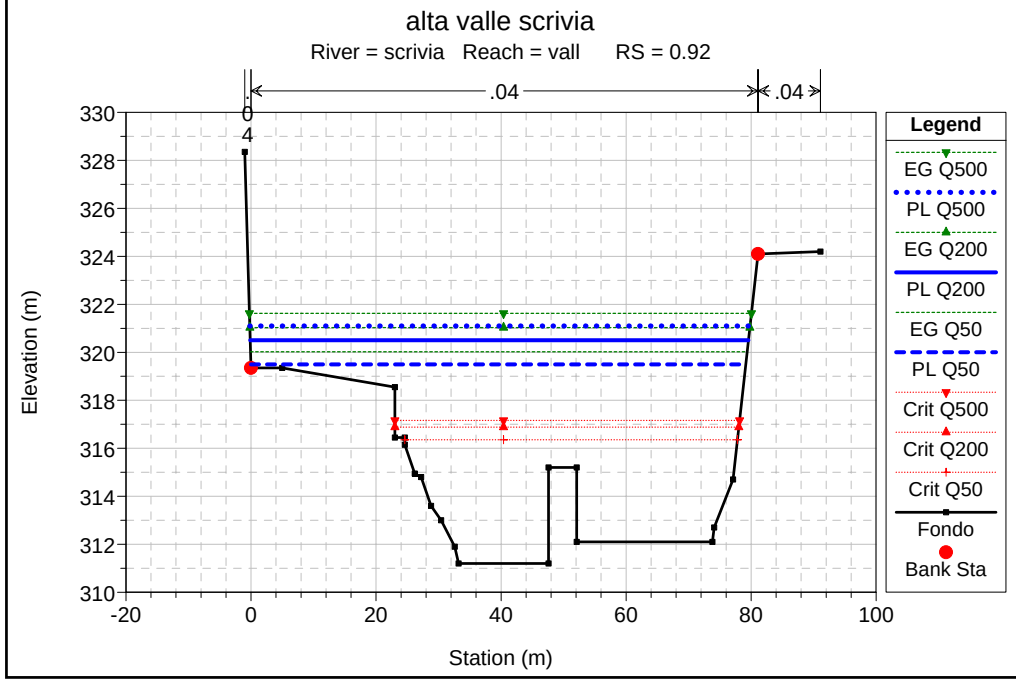

alta valle scrivia
River = scrivia Reach = vall RS = 1
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

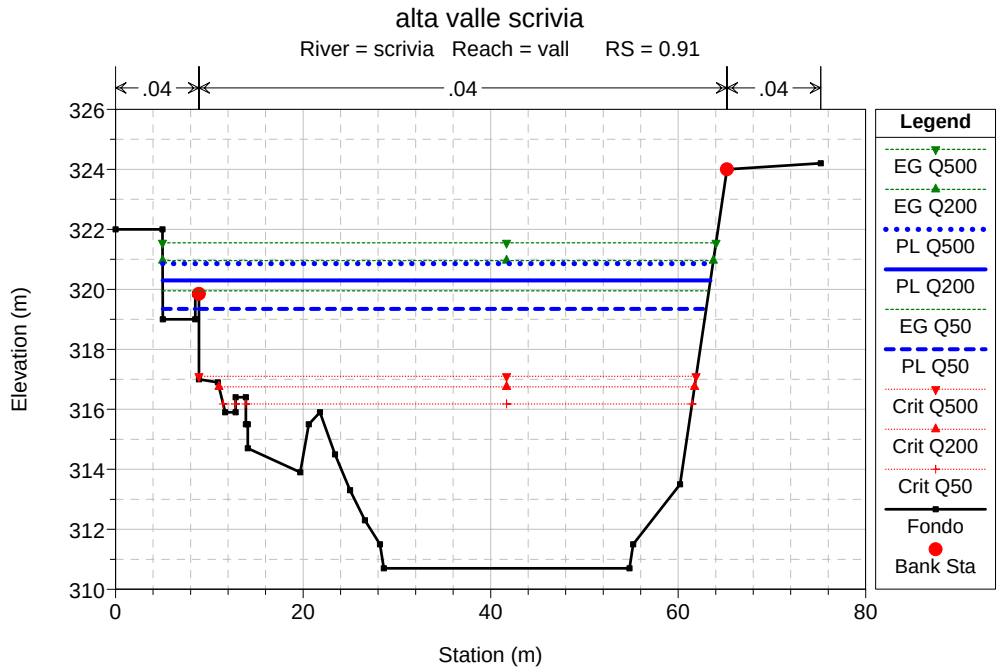

alta valle scrivia
River = scrivia Reach = vall RS = 0.96
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

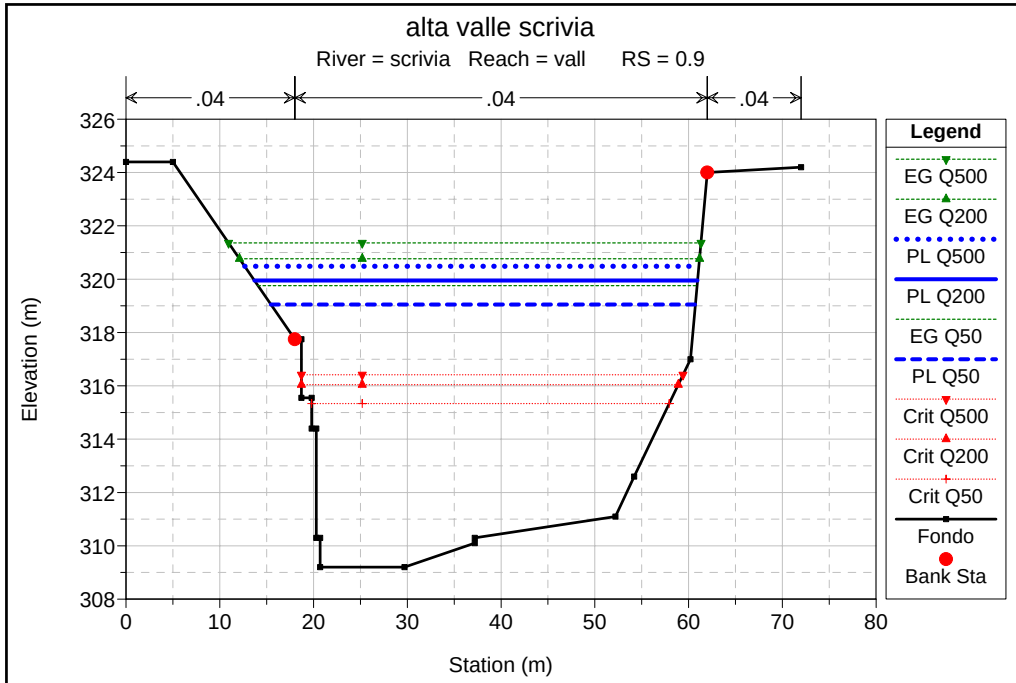

alta valle scrivia
River = scrivia Reach = vall RS = 0.95
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

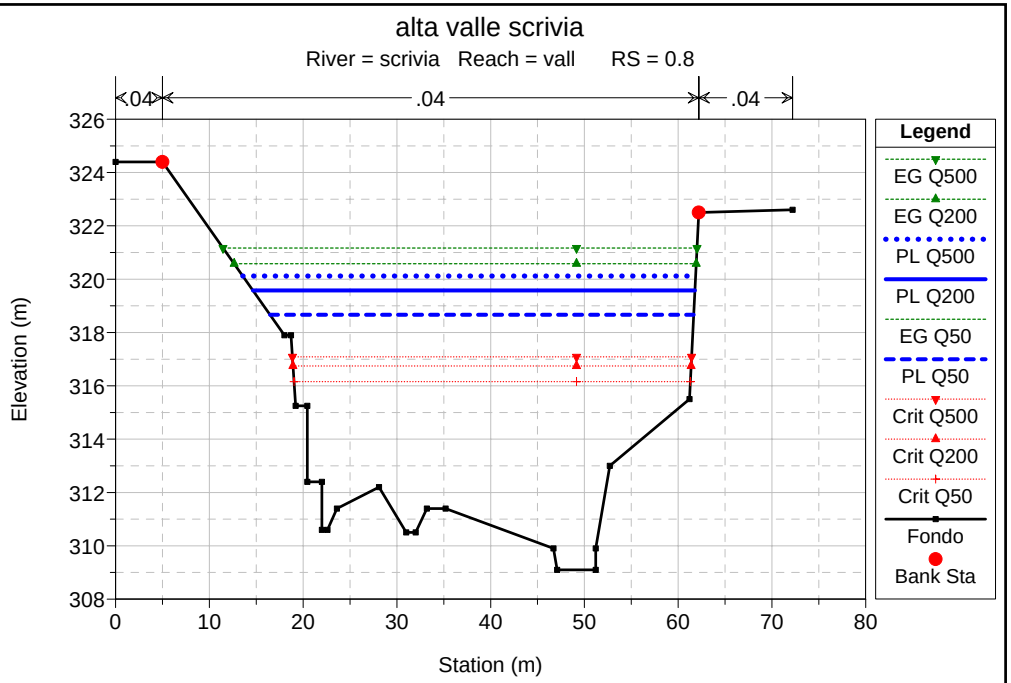

alta valle scrivia
River = scrivia Reach = vall RS = 0.94
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

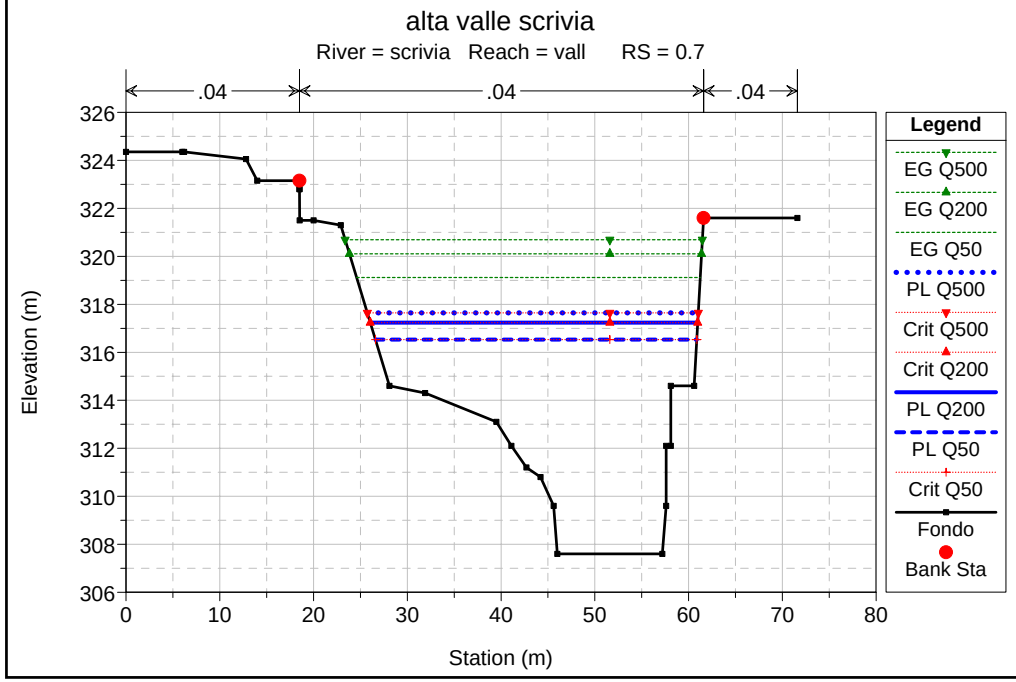

alta valle scrivia
River = scrivia Reach = vall RS = 0.93
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

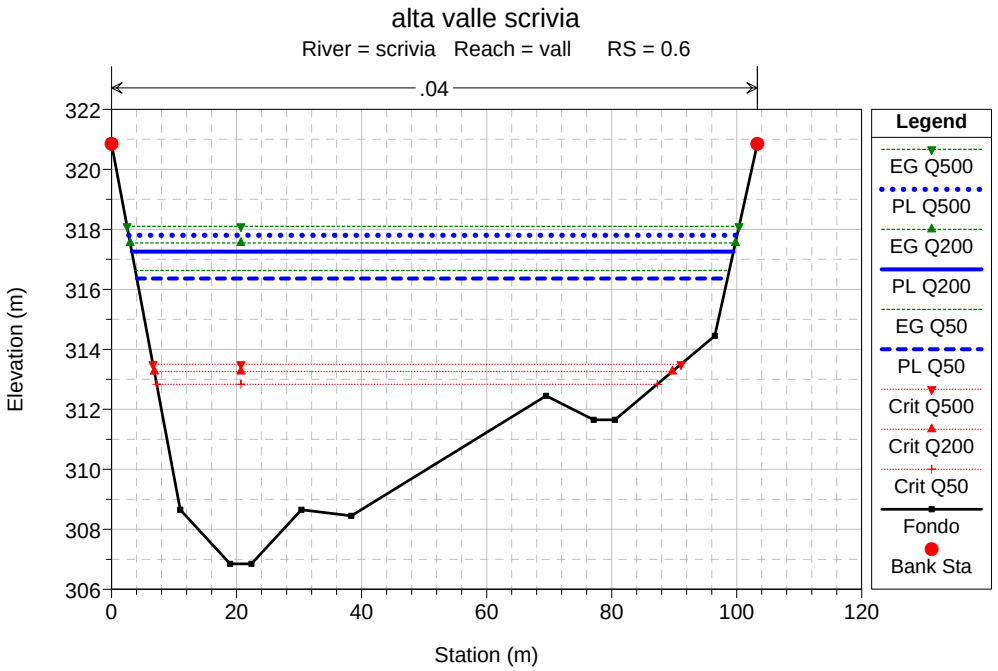

alta valle scrivia
River = scrivia Reach = vall RS = 0.92
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

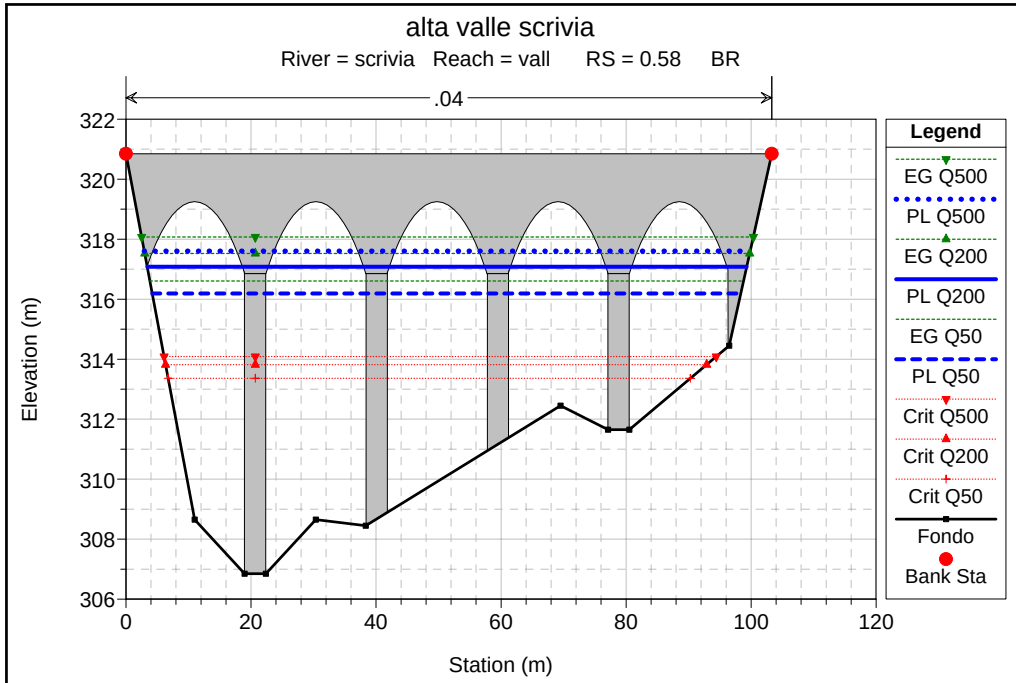

alta valle scrivia
River = scrivia Reach = vall RS = 0.91
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

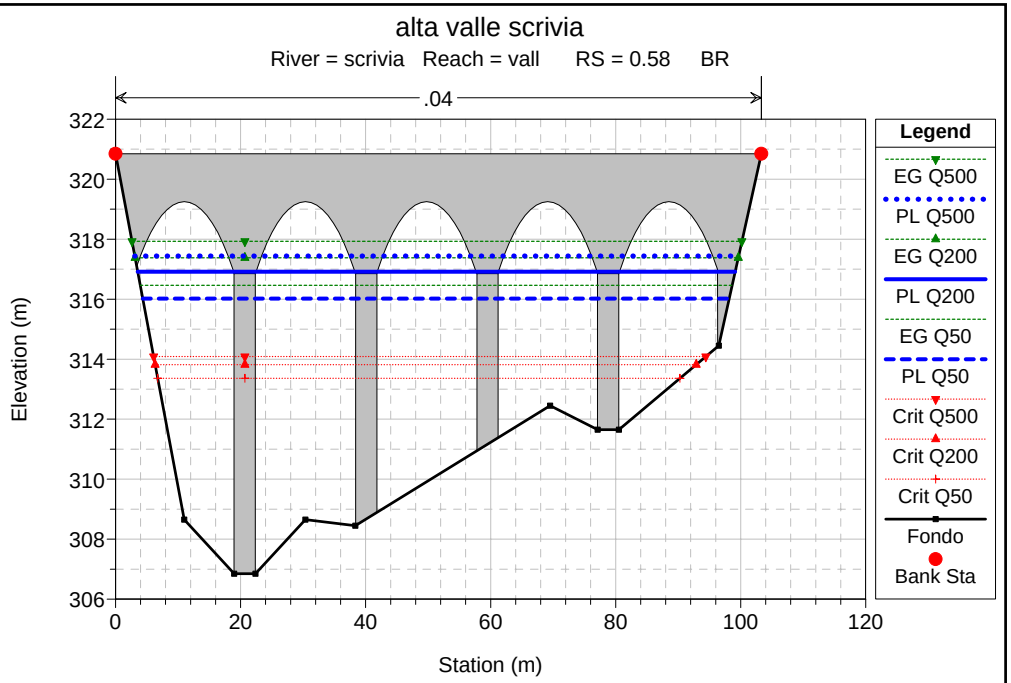

alta valle scrivia
River = scrivia Reach = vall RS = 0.9
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

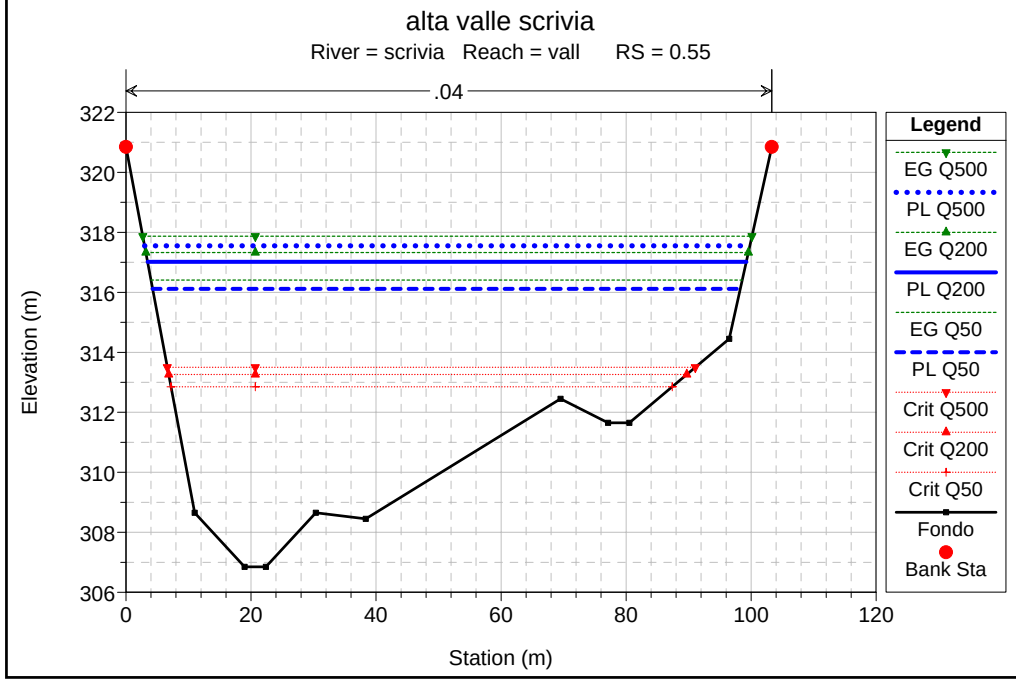

alta valle scrivia
River = scrivia Reach = vall RS = 0.8
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

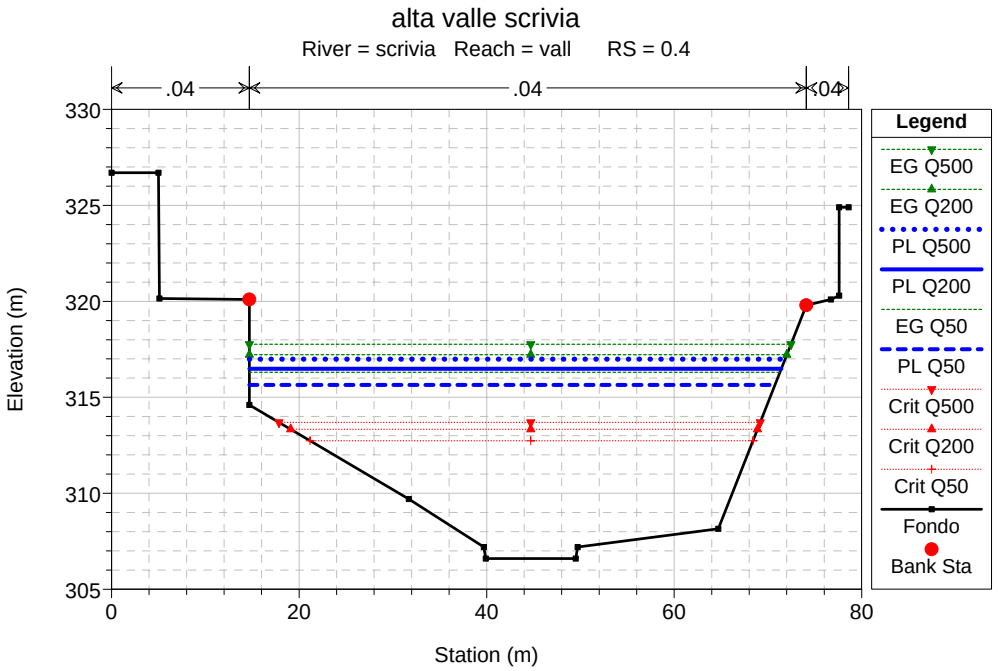

alta valle scrivia
River = scrivia Reach = vall RS = 0.7
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

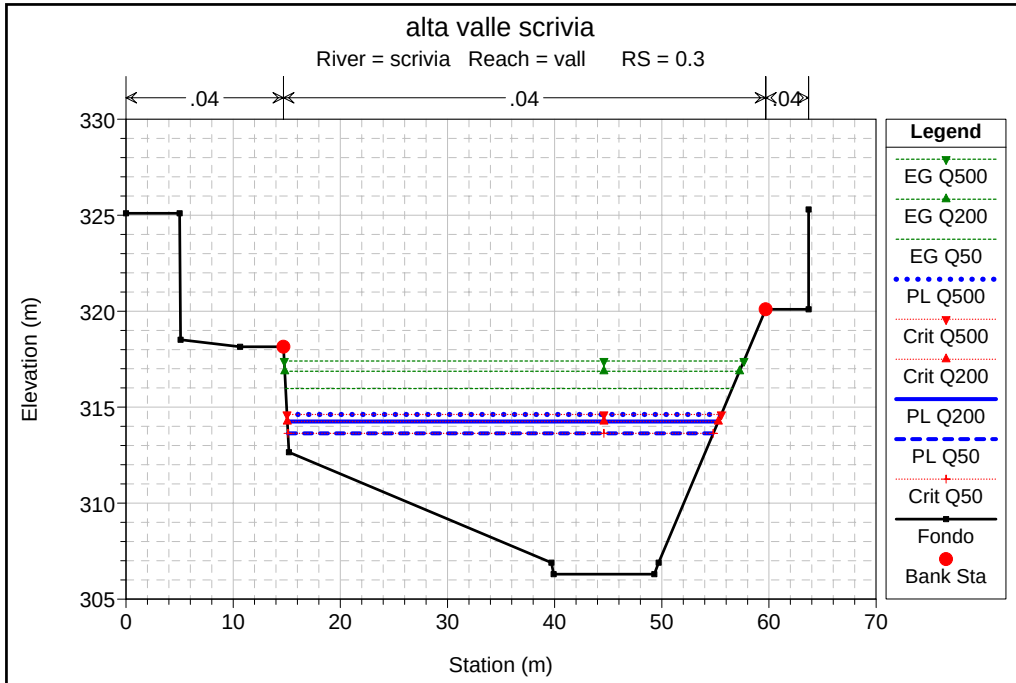

alta valle scrivia
River = scrivia Reach = vall RS = 0.6
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

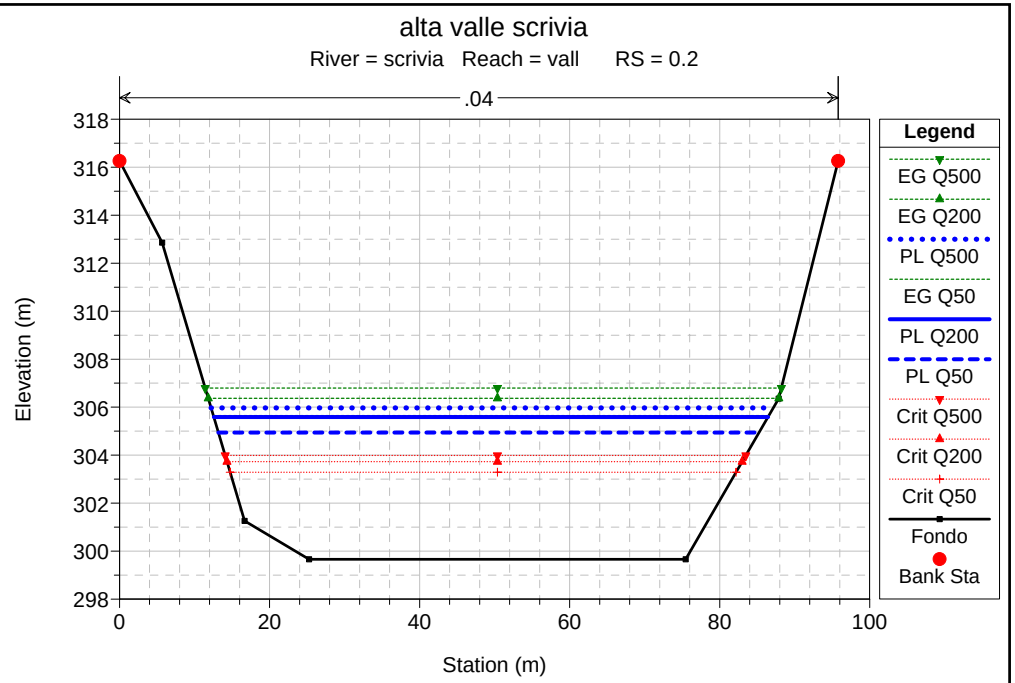

alta valle scrivia
River = scrivia Reach = vall RS = 0.58 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

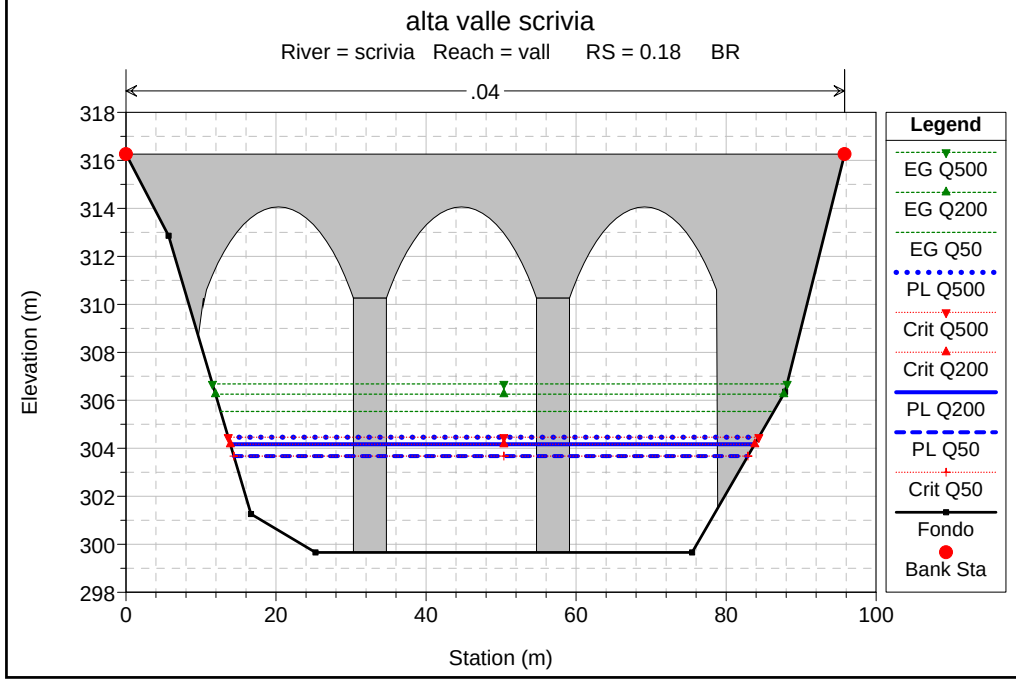

alta valle scrivia
River = scrivia Reach = vall RS = 0.58 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

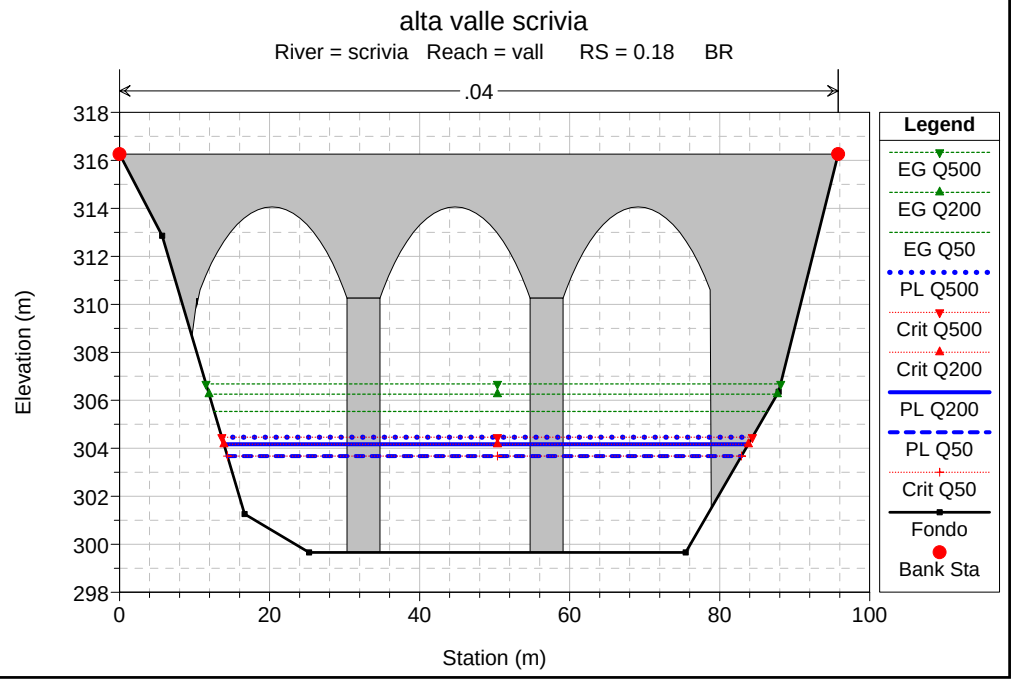

alta valle scrivia
River = scrivia Reach = vall RS = 0.55
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

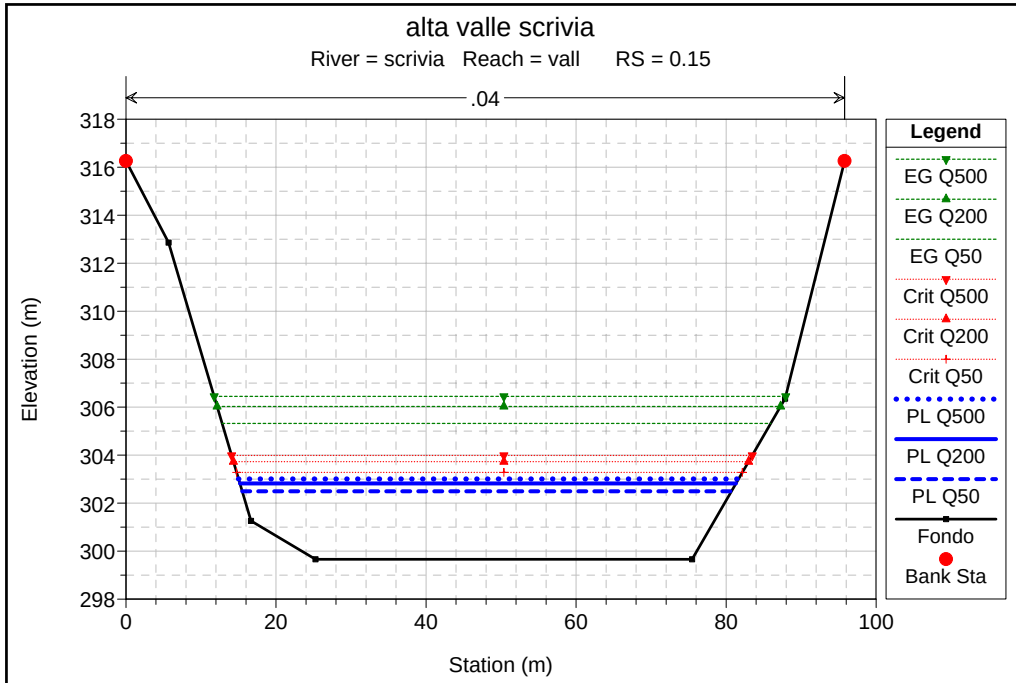

alta valle scrivia
River = scrivia Reach = vall RS = 0.4
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

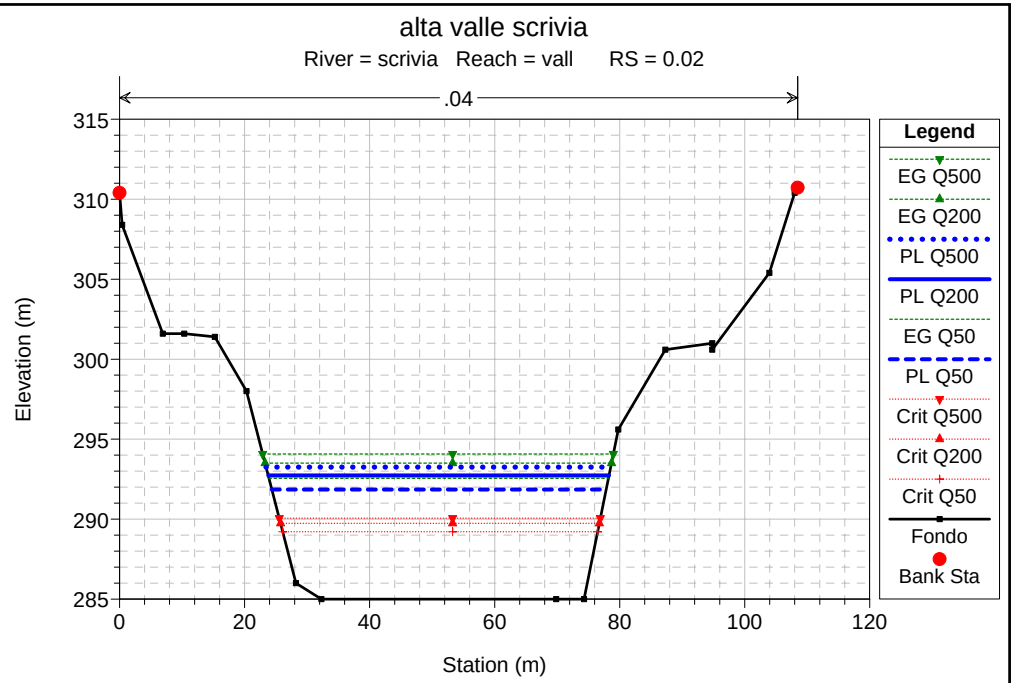

alta valle scrivia
River = scrivia Reach = vall RS = 0.3
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

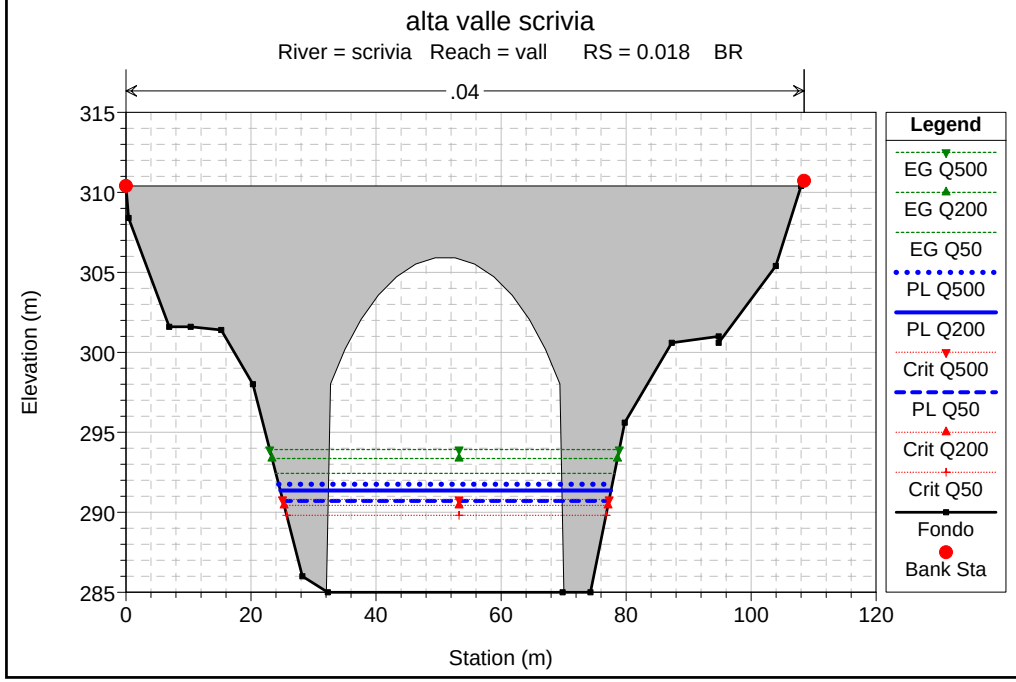

alta valle scrivia
River = scrivia Reach = vall RS = 0.2
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

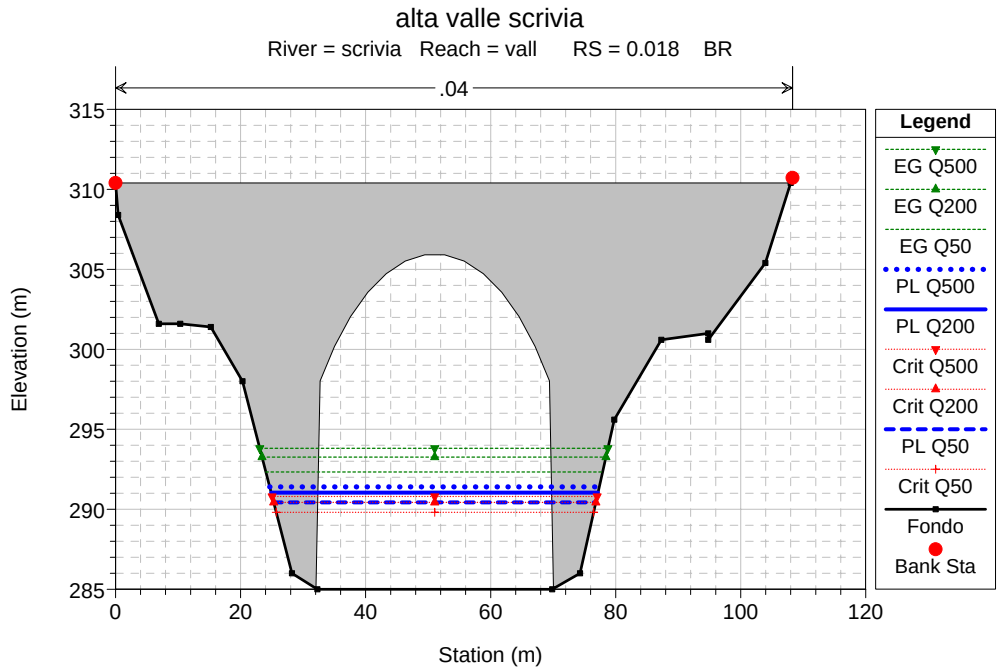

alta valle scrivia
River = scrivia Reach = vall RS = 0.18 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

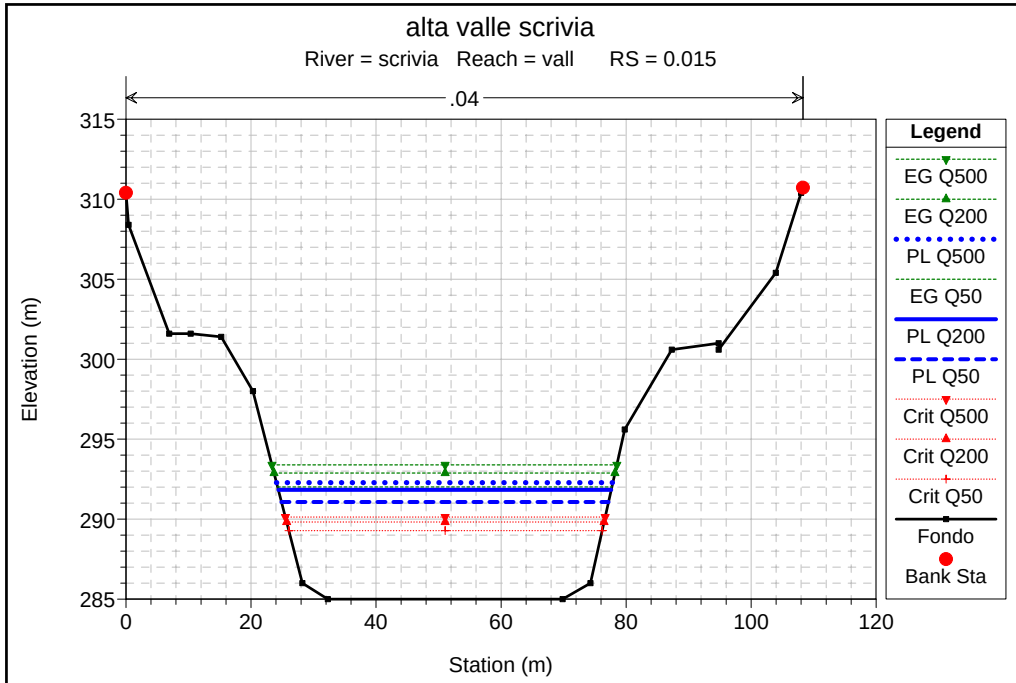

alta valle scrivia
River = scrivia Reach = vall RS = 0.18 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

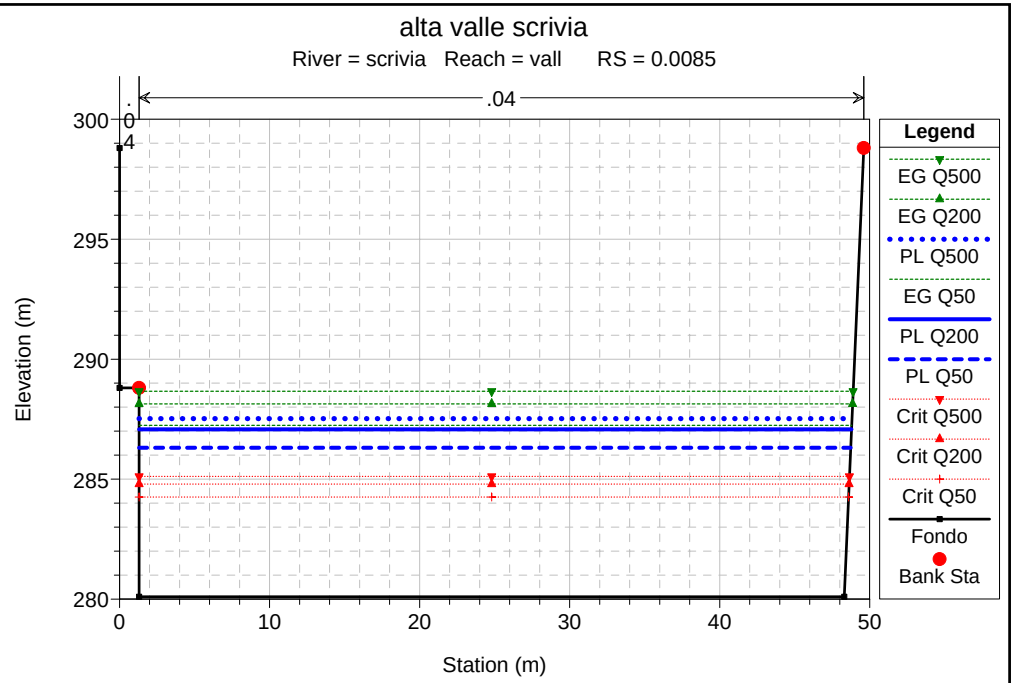

alta valle scrivia
River = scrivia Reach = vall RS = 0.15
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

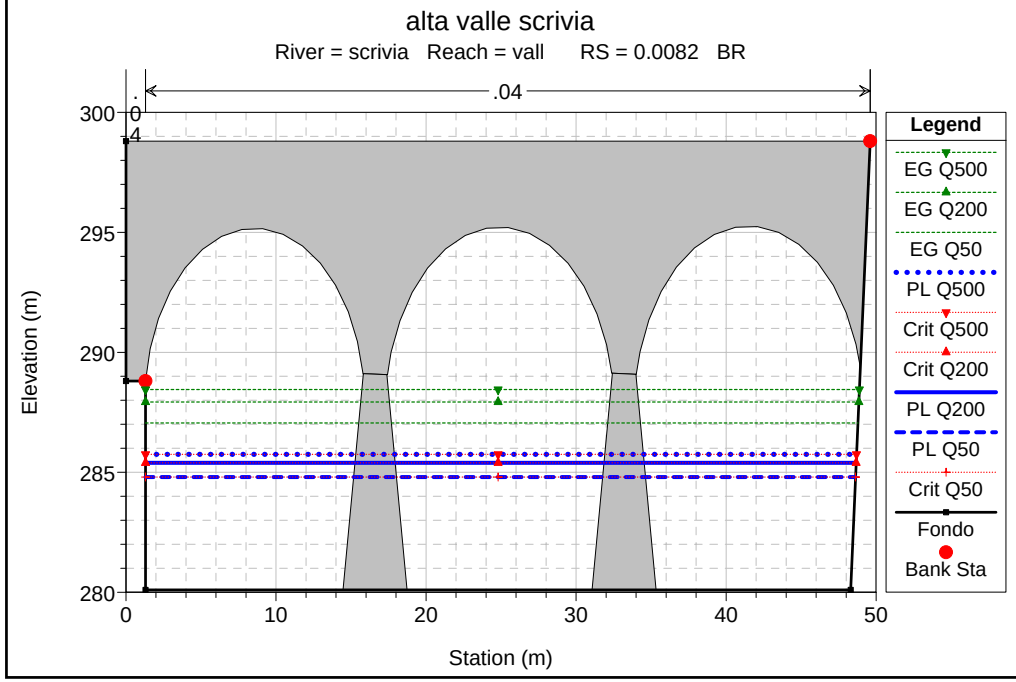

alta valle scrivia
River = scrivia Reach = vall RS = 0.02
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

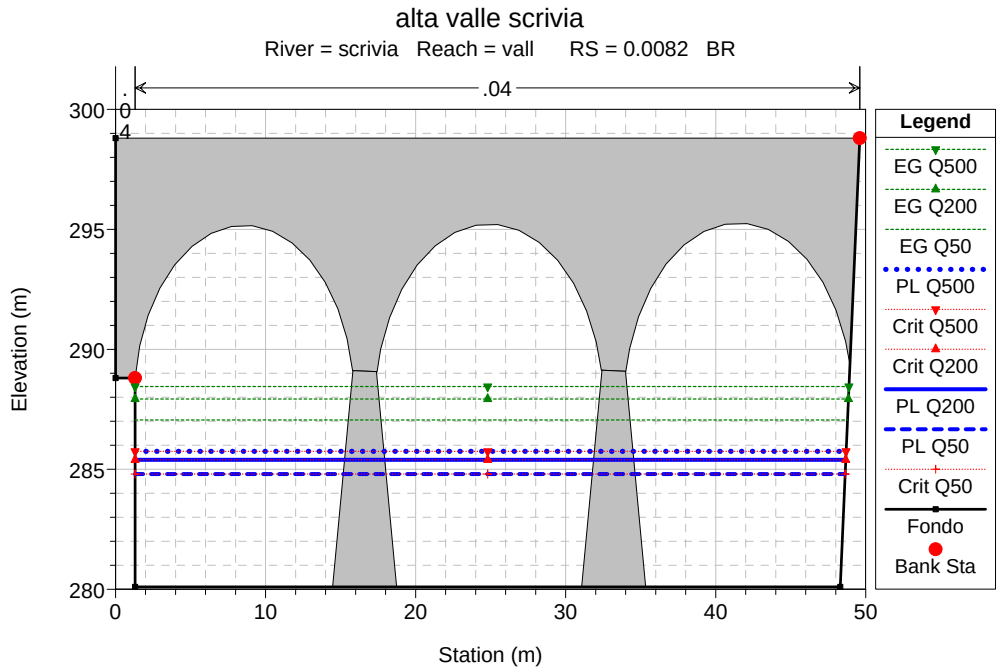

alta valle scrivia
River = scrivia Reach = vall RS = 0.018 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta

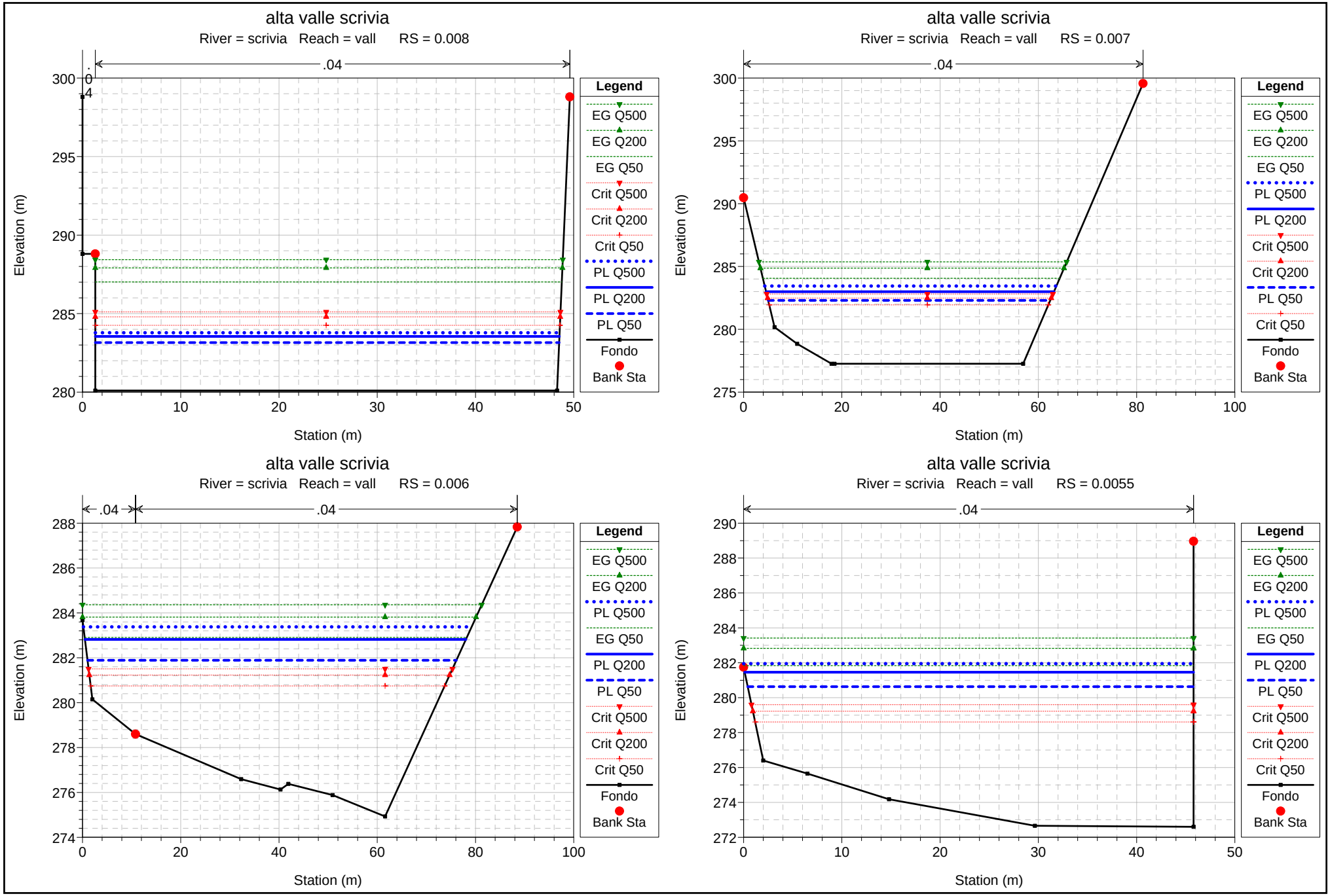

alta valle scrivia
River = scrivia Reach = vall RS = 0.018 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

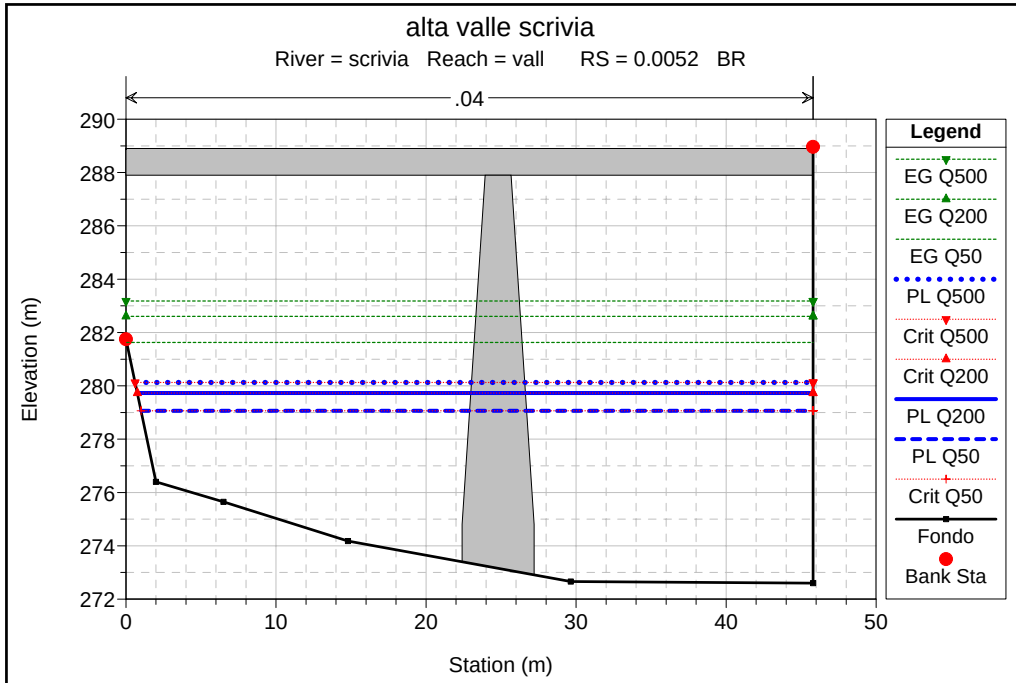

alta valle scrivia
River = scrivia Reach = vall RS = 0.015
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

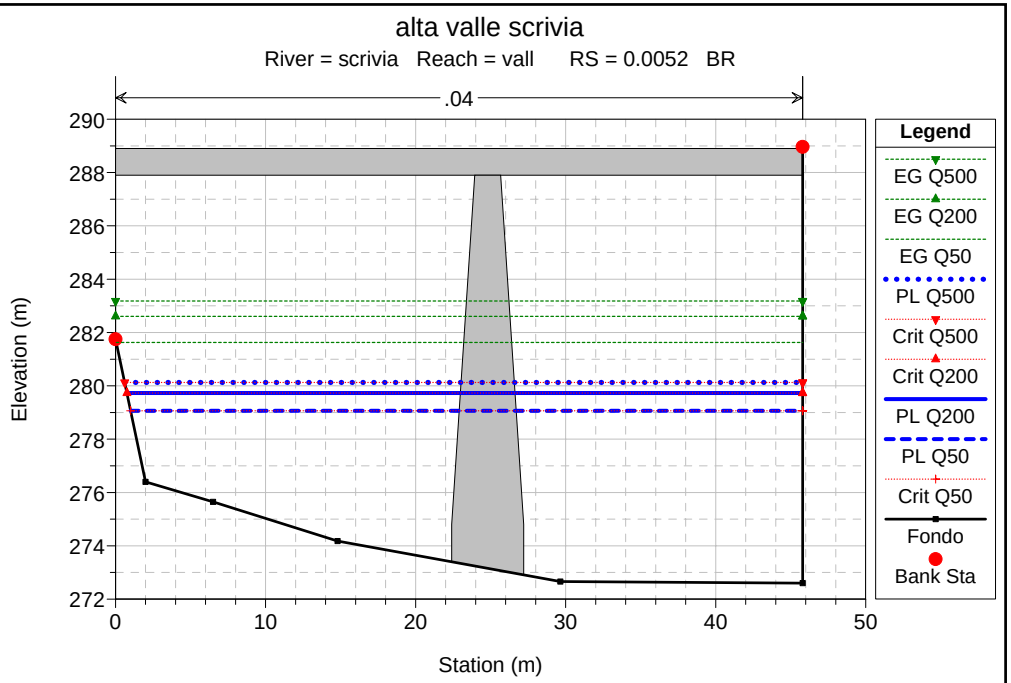

alta valle scrivia
River = scrivia Reach = vall RS = 0.0085
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

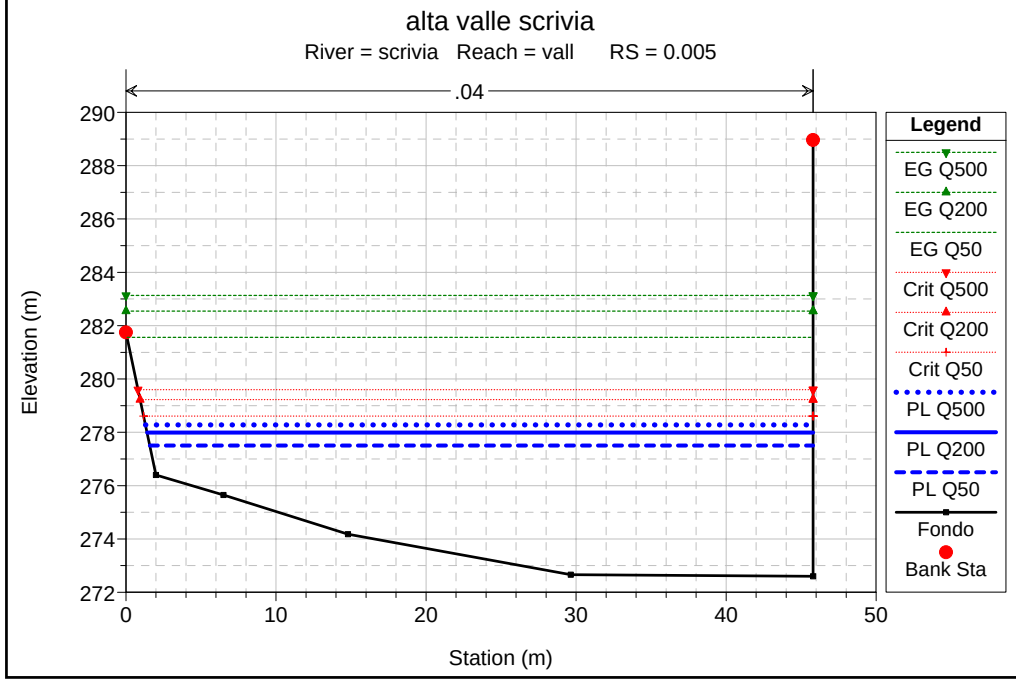

alta valle scrivia
River = scrivia Reach = vall RS = 0.0082 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 0.0082 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 0.008
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = vall RS = 0.007
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = vall RS = 0.006
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = vall RS = 0.0055
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 0.0052 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 0.0052 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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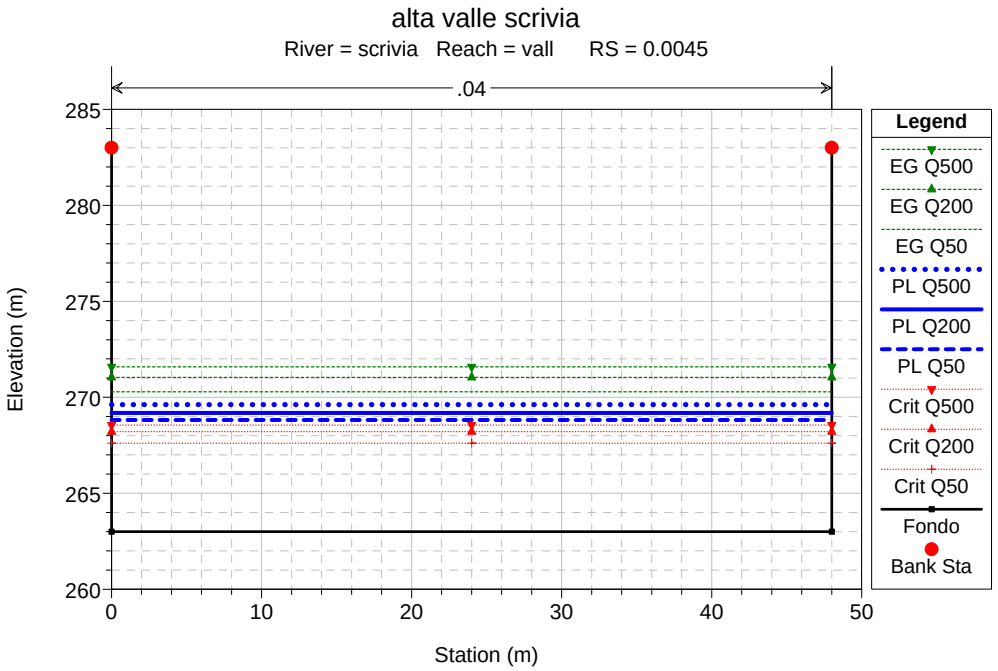
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


alta valle scrivia
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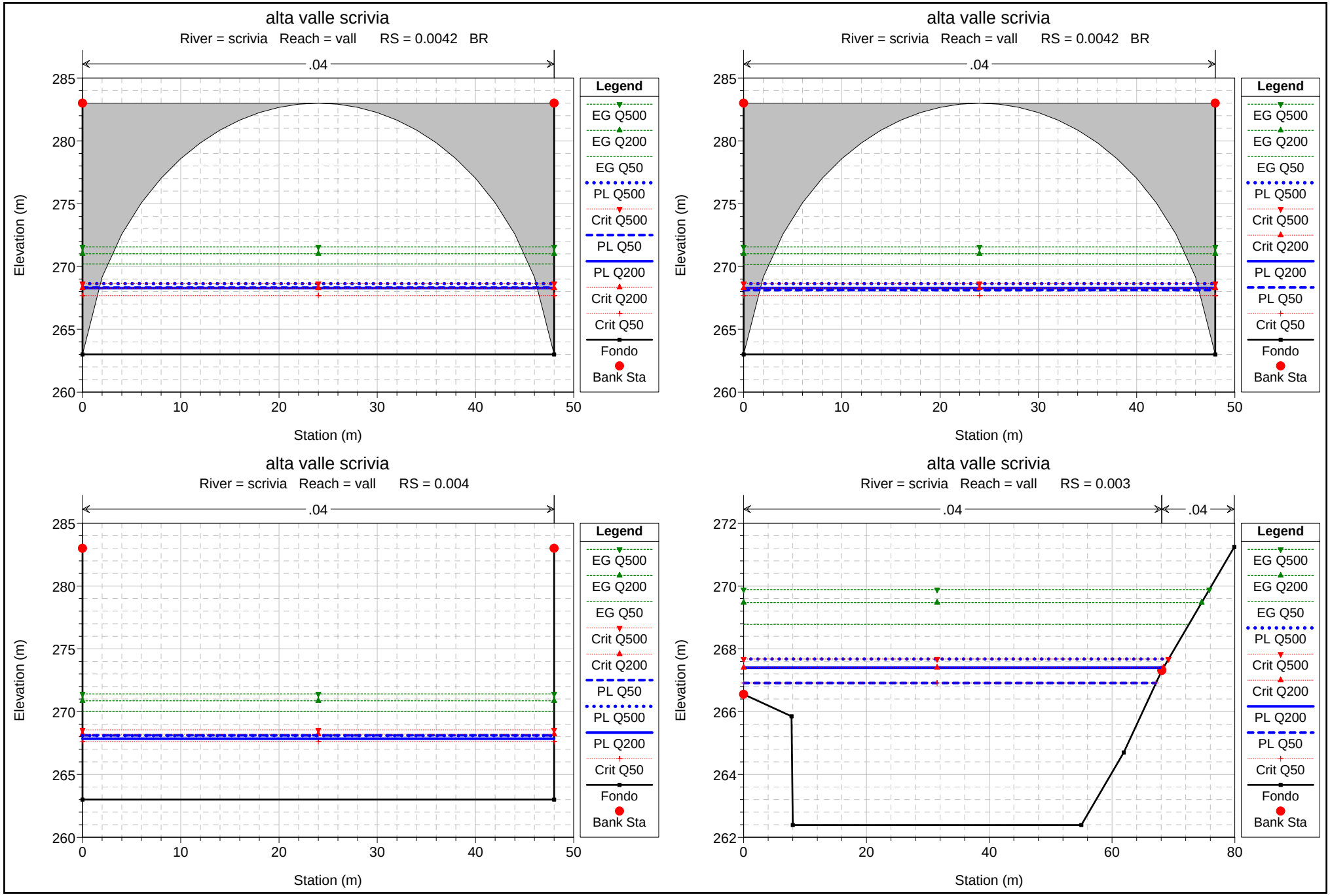
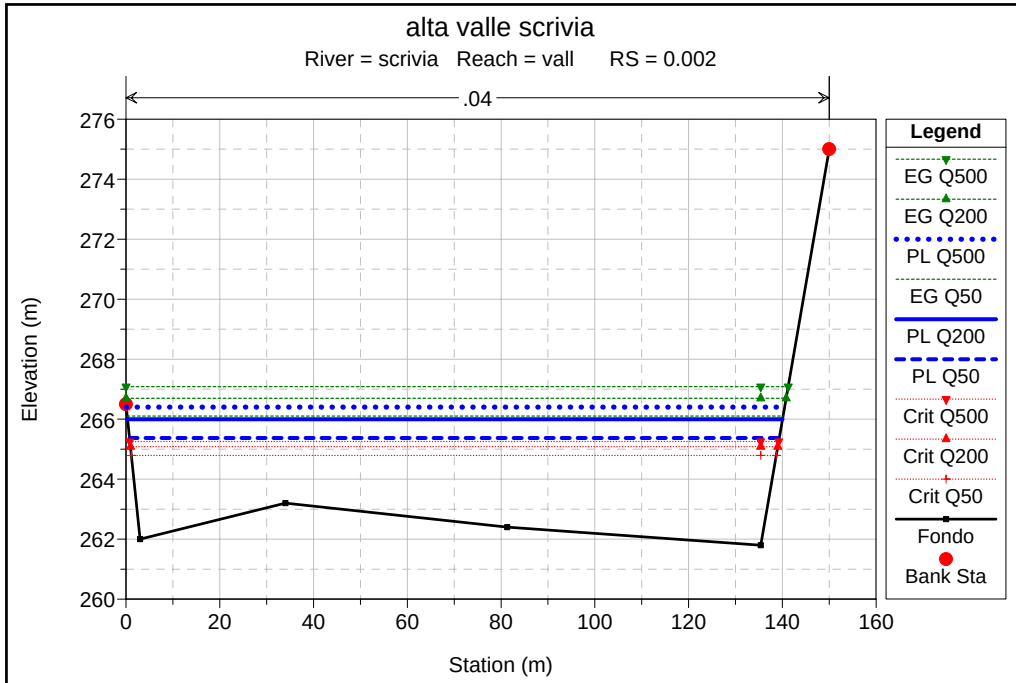
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 0.0042 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q50
PL Q200
Crit Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = vall RS = 0.0042 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = vall RS = 0.004
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
PL Q500
PL Q200
Crit Q50
Fondo
Bank Sta
alta valle scrivia
River = scrivia Reach = vall RS = 0.003
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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.04
Elevation (m)
Station (m)
Legend
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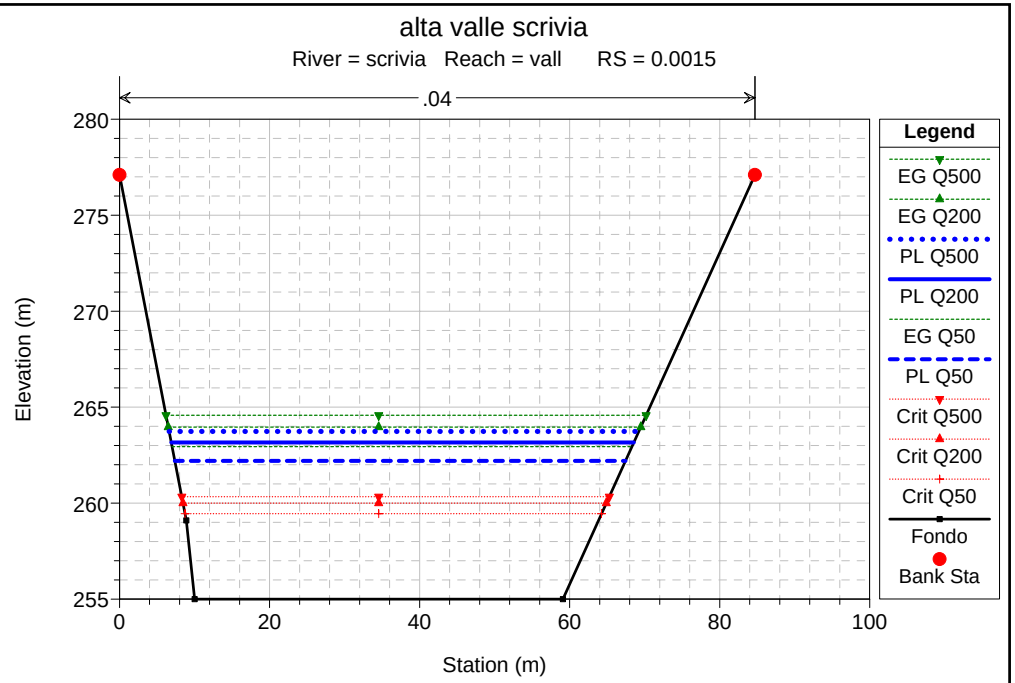
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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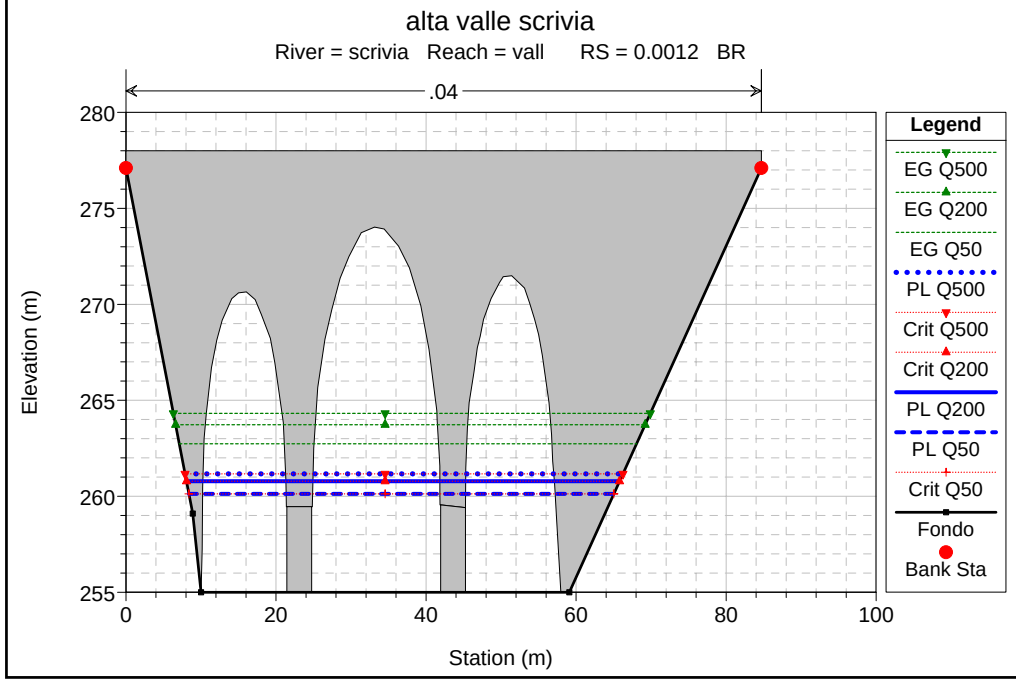
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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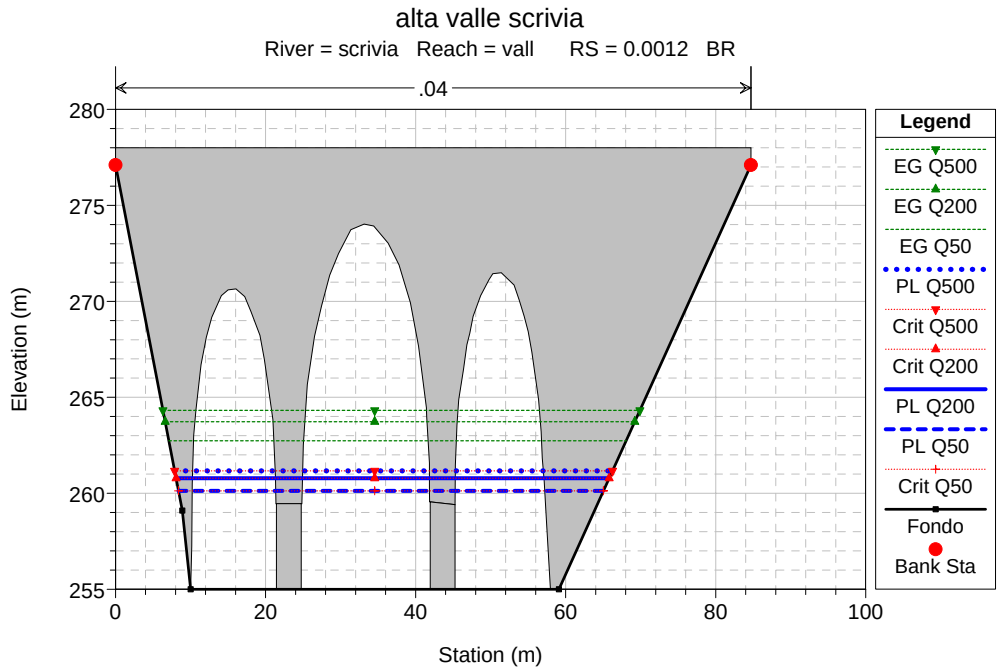
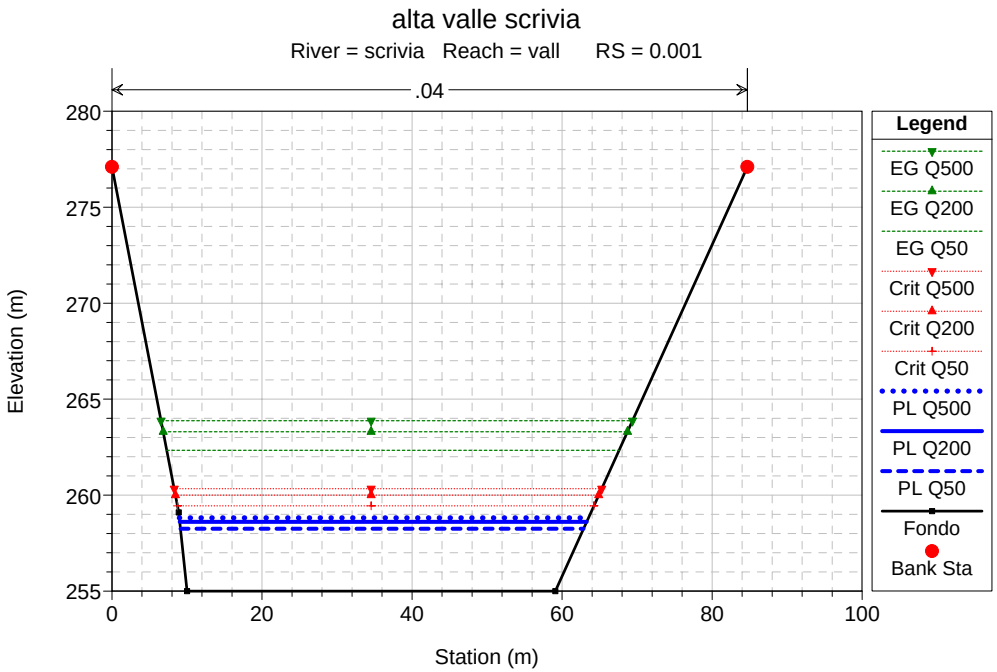
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 0.0012 BR
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = scrivia Reach = vall RS = 0.001
.04
Elevation (m)
280
275
270
265
260
255
0
20
40
60
80
100
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

HEC-RAS Plan: 06_RevF

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
monte	60	Q50	395.00	452.80	457.37	464.96	7.59	465.00	7.63	456.45	458.19	0.005711	4.02	98.16	27.44	0.68
monte	60	Q200	506.00	452.80	457.94	464.96	7.02	465.00	7.06	457.01	458.94	0.006078	4.43	114.16	28.58	0.71
monte	60	Q500	577.00	452.80	458.26	464.96	6.70	465.00	6.74	457.33	459.37	0.006318	4.67	123.49	29.23	0.73
monte	59	Q50	395.00	452.30	456.22	460.00	3.78	460.00	3.78	456.22	457.62	0.012261	5.24	75.33	27.05	1.00
monte	59	Q200	506.00	452.30	456.77	460.00	3.23	460.00	3.23	456.77	458.35	0.011884	5.57	90.83	28.89	1.00
monte	59	Q500	577.00	452.30	457.10	460.00	2.90	460.00	2.90	457.10	458.78	0.011692	5.75	100.35	29.96	1.00
monte	58	Q50	395.00	451.80	454.50	465.00	10.50	465.00	10.50	455.09	456.50	0.027460	6.27	63.03	33.07	1.45
monte	58	Q200	506.00	451.80	454.81	465.00	10.19	465.00	10.19	455.54	457.21	0.029153	6.86	73.79	35.33	1.51
monte	58	Q500	577.00	451.80	455.00	465.00	10.00	465.00	10.00	455.80	457.62	0.029991	7.18	80.34	36.64	1.55
monte	57	Q50	395.00	449.26	451.17	455.00	3.83	455.00	3.83	451.56	452.43	0.034839	4.97	79.55	72.34	1.51
monte	57	Q200	506.00	449.26	451.35	455.00	3.65	455.00	3.65	451.83	452.85	0.037052	5.41	93.52	78.29	1.58
monte	57	Q500	577.00	449.26	451.46	455.00	3.54	455.00	3.54	451.99	453.10	0.038520	5.68	101.66	81.57	1.62
monte	56	Q50	395.00	446.00	449.31	455.00	5.69	455.00	5.69	448.53	449.57	0.003864	2.28	172.97	96.54	0.54
monte	56	Q200	506.00	446.00	449.70	455.00	5.30	455.00	5.30	448.82	449.99	0.003624	2.37	213.29	107.13	0.54
monte	56	Q500	577.00	446.00	449.93	455.00	5.07	455.00	5.07	448.98	450.23	0.003502	2.42	238.37	113.22	0.53
monte	55	Q50	395.00	445.00	448.17	455.00	6.83	455.00	6.83	447.68	448.66	0.006523	3.12	126.54	65.36	0.72
monte	55	Q200	506.00	445.00	448.50	455.00	6.50	455.00	6.50	448.03	449.08	0.006880	3.39	149.08	70.68	0.75
monte	55	Q500	577.00	445.00	448.68	455.00	6.32	455.00	6.32	448.23	449.32	0.007110	3.55	162.36	73.63	0.76
monte	54	Q50	395.00	443.75	446.50	450.00	3.50	461.00	14.50	446.50	447.26	0.013859	3.86	102.34	67.60	1.00
monte	54	Q200	506.00	443.75	446.81	450.00	3.19	461.00	14.19	446.81	447.65	0.013470	4.06	124.48	74.46	1.00
monte	54	Q500	577.00	443.75	446.99	450.00	3.01	461.00	14.01	446.99	447.88	0.013236	4.17	138.24	78.43	1.00
monte	53	Q50	395.00	441.26	445.57	445.32	-0.25	448.20	2.63	444.79	446.01	0.004241	2.94	136.88	69.13	0.59
monte	53	Q200	506.00	441.26	446.09	445.32	-0.77	448.20	2.11	445.12	446.55	0.003655	3.05	177.09	89.51	0.56
monte	53	Q500	577.00	441.26	446.40	445.32	-1.08	448.20	1.80	445.35	446.86	0.003318	3.08	207.37	106.97	0.54
monte	52	Q50	395.00	441.01	445.60	445.07	-0.53	447.95	2.35	444.53	445.95	0.002950	2.61	157.85	78.42	0.50
monte	52	Q200	506.00	441.01	446.13	445.07	-1.06	447.95	1.82	444.87	446.49	0.002600	2.72	205.71	106.00	0.48
monte	52	Q500	577.00	441.01	446.44	445.07	-1.37	447.95	1.51	445.10	446.80	0.002368	2.74	241.74	123.77	0.47
monte	51.8		Bridge													
monte	51.5	Q50	395.00	441.01	445.51	445.07	-0.44	447.95	2.44	444.53	445.89	0.003305	2.71	150.89	75.55	0.53
monte	51.5	Q200	506.00	441.01	446.04	445.07	-0.97	447.95	1.91	444.87	446.43	0.002898	2.82	196.01	100.68	0.51
monte	51.5	Q500	577.00	441.01	446.35	445.07	-1.28	447.95	1.60	445.10	446.74	0.002614	2.84	231.08	118.78	0.49

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
monte	51.49	Q50	395.00	441.05	445.50	443.35	-2.15	444.97	-0.53	444.21	445.83	0.002076	2.69	165.50	63.65	0.44
monte	51.49	Q200	506.00	441.05	445.97	443.35	-2.62	444.97	-1.00	444.61	446.38	0.002280	3.04	198.69	83.92	0.47
monte	51.49	Q500	577.00	441.05	446.24	443.35	-2.89	444.97	-1.27	444.84	446.69	0.002340	3.21	223.80	101.05	0.48
monte	51.48	Q50	395.00	440.94	445.47	443.35	-2.12	444.08	-1.39	444.13	445.77	0.001875	2.62	173.32	67.67	0.42
monte	51.48	Q200	506.00	440.94	445.93	443.35	-2.58	444.08	-1.85	444.53	446.32	0.002050	2.95	207.93	85.56	0.45
monte	51.48	Q500	577.00	440.94	446.21	443.35	-2.86	444.08	-2.13	444.76	446.63	0.002118	3.13	233.33	102.17	0.46
monte	51.47	Q50	395.00	440.49	444.53	443.05	-1.48	445.74	1.21	444.53	445.58	0.009538	4.73	92.59	45.15	0.90
monte	51.47	Q200	506.00	440.49	444.97	443.05	-1.92	445.74	0.77	444.97	446.11	0.009319	4.99	113.53	49.84	0.90
monte	51.47	Q500	577.00	440.49	445.22	443.05	-2.17	445.74	0.52	445.22	446.42	0.009252	5.14	126.16	52.46	0.91
monte	51.46	Q50	395.00	440.34	442.39	441.78	-0.61	445.19	2.80	443.22	444.81	0.036517	6.93	58.41	37.64	1.64
monte	51.46	Q200	506.00	440.34	442.76	441.78	-0.98	445.19	2.43	443.66	445.38	0.031832	7.26	73.51	44.74	1.57
monte	51.46	Q500	577.00	440.34	442.97	441.78	-1.19	445.19	2.22	443.89	445.69	0.030001	7.45	83.19	49.01	1.54
monte	51.45	Q50	395.00	439.40	442.45	441.40	-1.05	442.22	-0.23	442.45	443.67	0.012901	4.90	80.65	33.44	1.01
monte	51.45	Q200	506.00	439.40	442.90	441.40	-1.50	442.22	-0.68	442.90	444.33	0.012342	5.28	95.77	33.44	1.00
monte	51.45	Q500	577.00	439.40	443.15	441.40	-1.75	442.22	-0.93	443.15	444.72	0.012460	5.55	103.87	33.44	1.01
monte	51.44	Q50	395.00	439.41	441.49	442.32	0.83	441.20	-0.29	441.97	443.22	0.030597	5.83	67.75	43.24	1.49
monte	51.44	Q200	506.00	439.41	441.73	442.32	0.59	441.20	-0.53	442.34	443.86	0.031697	6.46	78.35	43.74	1.54
monte	51.44	Q500	577.00	439.41	441.88	442.32	0.44	441.20	-0.68	442.56	444.24	0.032139	6.81	84.78	44.05	1.57
monte	51.43	Q50	395.00	439.06	442.22	442.23	0.01	442.92	0.70	441.51	442.75	0.004898	3.22	122.67	47.71	0.64
monte	51.43	Q200	506.00	439.06	442.63	442.23	-0.40	442.92	0.29	441.88	443.28	0.005072	3.56	142.21	48.39	0.66
monte	51.43	Q500	577.00	439.06	442.86	442.23	-0.63	442.92	0.06	442.11	443.58	0.005214	3.76	153.41	48.77	0.68
monte	51.42	Q50	395.00	438.02	442.29	442.23	-0.06	442.92	0.63	440.64	442.56	0.001886	2.29	172.71	59.73	0.41
monte	51.42	Q200	506.00	438.02	442.73	442.23	-0.49	442.92	0.20	441.01	443.06	0.002082	2.56	206.45	94.28	0.44
monte	51.42	Q500	577.00	438.02	442.98	442.23	-0.75	442.92	-0.06	441.23	443.35	0.002134	2.69	236.54	132.00	0.45
monte	51.41	Q50	395.00	438.41	442.26	442.02	-0.24	442.42	0.16	440.52	442.46	0.001379	1.99	205.31	103.78	0.35
monte	51.41	Q200	506.00	438.41	442.71	442.02	-0.69	442.42	-0.29	440.84	442.95	0.001437	2.21	258.87	123.80	0.37
monte	51.41	Q500	577.00	438.41	442.97	442.02	-0.95	442.42	-0.55	441.03	443.23	0.001446	2.31	291.68	123.80	0.37
valle1	51.25	Q50	648.00	438.30	441.31	441.84	0.53	442.08	0.77	441.31	442.46	0.012311	4.76	136.21	129.78	1.00
valle1	51.25	Q200	791.00	438.30	441.65	441.84	0.19	442.08	0.43	441.65	442.95	0.011842	5.05	156.61	143.44	1.00
valle1	51.25	Q500	880.00	438.30	441.84	441.84	0.00	442.08	0.24	441.85	443.23	0.011727	5.23	168.21	151.10	1.01
valle1	51.20	Q50	648.00	436.03	438.35	439.90	1.55	439.38	1.03	439.13	440.92	0.039248	7.11	91.16	52.33	1.72
valle1	51.20	Q200	791.00	436.03	438.63	439.90	1.27	439.38	0.75	439.49	441.47	0.036603	7.46	105.99	53.57	1.69

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle1	51.20	Q500	880.00	436.03	438.80	439.90	1.10	439.38	0.58	439.72	441.78	0.035107	7.65	115.10	54.31	1.68
valle1	51.15	Q50	648.00	435.99	439.11	439.25	0.14	439.63	0.52	439.06	440.26	0.011485	4.75	136.36	56.50	0.98
valle1	51.15	Q200	791.00	435.99	439.75	439.25	-0.50	439.63	-0.12	439.70	440.72	0.007466	4.43	215.11	164.61	0.81
valle1	51.15	Q500	880.00	435.99	440.18	439.25	-0.93	439.63	-0.55	439.92	440.97	0.005300	4.08	287.05	165.00	0.70
valle1	51.10	Q50	648.00	435.72	439.34	442.59	3.25	439.24	-0.10	438.41	439.87	0.003927	3.22	209.58	141.71	0.59
valle1	51.10	Q200	791.00	435.72	439.94	442.59	2.65	439.24	-0.70	438.73	440.43	0.003040	3.17	294.02	142.31	0.53
valle1	51.10	Q500	880.00	435.72	440.29	442.59	2.30	439.24	-1.05	438.91	440.76	0.002651	3.13	343.88	142.67	0.51
valle1	51	Q50	648.00	435.31	439.13	440.00	0.87	439.19	0.06	438.12	439.71	0.004092	3.36	193.08	61.65	0.61
valle1	51	Q200	791.00	435.31	439.75	440.00	0.25	439.19	-0.56	438.49	440.30	0.003337	3.33	272.39	138.90	0.56
valle1	51	Q500	880.00	435.31	440.13	440.00	-0.13	439.19	-0.94	438.70	440.64	0.002857	3.26	325.75	140.78	0.53
valle1	50.9	Q50	648.00	434.74	438.50	440.00	1.50	439.11	0.61	438.02	439.53	0.007327	4.50	144.14	44.58	0.80
valle1	50.9	Q200	791.00	434.74	438.91	440.00	1.09	439.11	0.20	438.44	440.12	0.007548	4.86	162.66	45.46	0.82
valle1	50.9	Q500	880.00	434.74	439.15	440.00	0.85	439.11	-0.04	438.68	440.46	0.007669	5.07	174.12	79.03	0.83
valle1	50.8	Q50	648.00	434.02	438.42	440.00	1.58	437.14	-1.28	437.59	439.22	0.004901	3.97	177.60	80.93	0.67
valle1	50.8	Q200	791.00	434.02	438.92	440.00	1.08	437.14	-1.78	437.98	439.77	0.004620	4.16	219.35	86.35	0.66
valle1	50.8	Q500	880.00	434.02	439.22	440.00	0.78	437.14	-2.08	438.40	440.09	0.004444	4.24	245.41	89.57	0.66
valle1	50.7	Q50	648.00	434.13	437.33	440.00	2.67	436.94	-0.39	437.33	438.68	0.011750	5.15	126.49	49.43	0.99
valle1	50.7	Q200	791.00	434.13	437.74	440.00	2.26	436.94	-0.80	437.74	439.25	0.011188	5.47	147.17	53.37	0.99
valle1	50.7	Q500	880.00	434.13	437.98	440.00	2.02	436.94	-1.04	437.98	439.59	0.010778	5.62	160.69	55.79	0.98
valle1	50.6	Q50	648.00	433.99	437.36	438.27	0.91	436.45	-0.91	436.84	438.20	0.006347	4.06	164.45	65.91	0.75
valle1	50.6	Q200	791.00	433.99	437.74	438.27	0.53	436.45	-1.29	437.22	438.70	0.006402	4.38	190.47	71.98	0.77
valle1	50.6	Q500	880.00	433.99	437.00	438.27	1.27	436.45	-0.55	437.46	439.02	0.017667	6.29	141.79	60.13	1.23
valle1	50.5	Q50	648.00	433.81	436.69	437.84	1.15	435.83	-0.86	436.69	437.91	0.011217	4.91	136.80	63.65	0.97
valle1	50.5	Q200	791.00	433.81	437.07	437.84	0.77	435.83	-1.24	437.07	438.42	0.010617	5.18	162.12	69.97	0.97
valle1	50.5	Q500	880.00	433.81	437.58	437.84	0.26	435.83	-1.75	437.30	438.75	0.007668	4.84	199.94	78.46	0.84
valle1	50.01	Q50	648.00	429.92	437.14	441.62	4.48	441.62	4.48	434.02	437.41	0.000982	2.29	282.95	50.73	0.31
valle1	50.01	Q200	791.00	429.92	437.73	441.62	3.89	441.62	3.89	434.39	438.06	0.001077	2.53	312.89	51.07	0.33
valle1	50.01	Q500	880.00	429.92	438.10	441.62	3.52	441.62	3.52	434.62	438.46	0.001115	2.65	331.88	51.28	0.33
valle1	50		Bridge													
valle1	49.99	Q50	648.00	429.92	437.03	441.62	4.59	441.62	4.59	434.02	437.31	0.001043	2.34	277.43	50.67	0.32
valle1	49.99	Q200	791.00	429.92	437.60	441.62	4.02	441.62	4.02	434.40	437.94	0.001150	2.58	306.19	50.99	0.34

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle1	49.99	Q500	880.00	429.92	437.96	441.62	3.66	441.62	3.66	434.62	438.33	0.001193	2.71	324.54	51.19	0.34
valle1	49.6	Q50	648.00	432.34	436.45	437.61	1.16	435.87	-0.58	435.65	437.10	0.005355	3.58	180.79	64.29	0.68
valle1	49.6	Q200	791.00	432.34	437.11	437.61	0.50	435.87	-1.24	436.08	437.74	0.004282	3.52	224.85	68.96	0.62
valle1	49.6	Q500	880.00	432.34	437.54	437.61	0.07	435.87	-1.67	436.29	438.14	0.003713	3.45	255.00	71.98	0.59
valle1	49.4	Q50	648.00	431.82	436.27	435.91	-0.36	436.19	-0.08	435.31	436.80	0.004041	3.25	204.33	70.34	0.59
valle1	49.4	Q200	791.00	431.82	436.99	435.91	-1.08	436.19	-0.80	435.67	437.50	0.002980	3.19	255.15	70.34	0.52
valle1	49.4	Q500	880.00	431.82	437.43	435.91	-1.52	436.19	-1.24	435.88	437.93	0.002553	3.17	286.50	70.34	0.49
valle1	49.2	Q50	648.00	431.22	436.20	435.67	-0.53	436.06	-0.14	434.49	436.64	0.002342	2.94	220.46	53.34	0.46
valle1	49.2	Q200	791.00	431.22	436.90	435.67	-1.23	436.06	-0.84	434.86	437.38	0.002136	3.07	257.90	53.34	0.45
valle1	49.2	Q500	880.00	431.22	437.34	435.67	-1.67	436.06	-1.28	435.07	437.84	0.002021	3.13	281.15	53.34	0.44
valle1	49.01	Q50	648.00	430.35	435.46	435.22	-0.24	436.90	1.44	434.47	436.43	0.005563	4.38	148.11	34.75	0.68
valle1	49.01	Q200	791.00	430.35	436.05	435.22	-0.83	436.90	0.85	434.94	437.17	0.005566	4.69	168.82	34.75	0.68
valle1	49.01	Q500	880.00	430.35	436.44	435.22	-1.22	436.90	0.46	435.21	437.63	0.005463	4.83	182.31	34.75	0.67
valle1	49		Bridge													
valle1	48.99	Q50	648.00	430.35	434.47	435.22	0.75	436.90	2.43	434.47	436.12	0.012545	5.70	113.76	34.58	1.00
valle1	48.99	Q200	791.00	430.35	434.94	435.22	0.28	436.90	1.96	434.94	436.82	0.012346	6.08	130.08	34.69	1.00
valle1	48.99	Q500	880.00	430.35	435.22	435.22	0.00	436.90	1.68	435.22	437.24	0.012261	6.30	139.74	34.75	1.00
valle1	48.9	Q50	648.00	430.59	434.50	434.53	0.03	433.09	-1.41	433.91	435.37	0.006431	4.14	156.47	49.77	0.75
valle1	48.9	Q200	791.00	430.59	433.67	434.53	0.86	433.09	-0.58	434.29	436.04	0.024164	6.81	116.12	48.12	1.40
valle1	48.9	Q500	880.00	430.59	433.81	434.53	0.72	433.09	-0.72	434.52	436.43	0.025147	7.17	122.75	48.40	1.44
valle1	48	Q50	648.00	425.14	429.48	451.70	22.22	433.77	4.29	429.48	431.11	0.012206	5.65	114.63	35.54	1.00
valle1	48	Q200	791.00	425.14	429.97	451.70	21.73	433.77	3.80	429.97	431.80	0.011920	5.98	132.19	36.54	1.00
valle1	48	Q500	880.00	425.14	430.31	451.70	21.39	433.77	3.46	430.31	432.19	0.011740	6.07	144.87	38.70	1.00
valle1	47	Q50	648.00	418.99	424.43	429.08	4.65	430.61	6.18	423.29	425.36	0.004876	4.27	151.68	35.96	0.66
valle1	47	Q200	791.00	418.99	424.99	429.08	4.09	430.61	5.62	423.81	426.07	0.005037	4.59	172.18	37.23	0.68
valle1	47	Q500	880.00	418.99	425.31	429.08	3.77	430.61	5.30	424.11	426.48	0.005132	4.78	184.24	37.96	0.69
valle1	46	Q50	648.00	416.96	421.38	426.21	4.83	431.16	9.78	420.85	422.48	0.007131	4.65	139.30	39.97	0.80
valle1	46	Q200	791.00	416.96	421.86	426.21	4.35	431.16	9.30	421.30	423.12	0.007187	4.99	158.63	40.94	0.81
valle1	46	Q500	880.00	416.96	422.14	426.21	4.07	431.16	9.02	421.57	423.50	0.007189	5.17	170.34	41.52	0.81
valle1	45	Q50	648.00	415.87	420.44	424.71	4.27	428.45	8.01	420.19	421.71	0.009414	5.00	129.66	40.69	0.89
valle1	45	Q200	791.00	415.87	420.84	424.71	3.87	428.45	7.61	420.62	422.33	0.009743	5.42	145.93	41.27	0.92

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle1	45	Q500	880.00	415.87	421.07	424.71	3.64	428.45	7.38	420.88	422.70	0.009942	5.66	155.41	41.60	0.94
valle1	44	Q50	783.00	414.45	419.24	422.74	3.50	423.16	3.92	418.39	420.01	0.004966	3.87	202.11	59.34	0.67
valle1	44	Q200	953.00	414.45	419.70	422.74	3.04	423.16	3.46	418.79	420.58	0.004945	4.15	229.42	60.11	0.68
valle1	44	Q500	1058.00	414.45	419.96	422.74	2.78	423.16	3.20	419.01	420.91	0.004963	4.32	245.05	60.54	0.69
valle1	43	Q50	783.00	413.27	418.09	426.99	8.90	428.26	10.17	416.92	418.71	0.004018	3.49	224.37	64.74	0.60
valle1	43	Q200	953.00	413.27	418.58	426.99	8.41	428.26	9.68	417.33	419.28	0.003991	3.72	256.36	66.56	0.60
valle1	43	Q500	1058.00	413.27	418.85	426.99	8.14	428.26	9.41	417.56	419.60	0.004000	3.86	274.22	67.20	0.61
valle1	42.8		Bridge													
valle1	42.5	Q50	783.00	413.27	417.82	427.94	10.12	428.26	10.44	416.92	418.55	0.005047	3.78	207.18	63.10	0.67
valle1	42.5	Q200	953.00	413.27	418.29	427.94	9.65	428.26	9.97	417.33	419.11	0.005053	4.01	237.49	65.88	0.67
valle1	42.5	Q500	1058.00	413.27	418.55	427.94	9.39	428.26	9.71	417.56	419.43	0.005051	4.16	254.18	66.48	0.68
valle1	42	Q50	783.00	409.03	413.20	416.80	3.60	416.98	3.78	413.20	414.65	0.011635	5.33	146.88	50.80	1.00
valle1	42	Q200	953.00	409.03	413.70	416.80	3.10	416.98	3.28	413.70	415.22	0.011592	5.45	174.83	58.33	1.01
valle1	42	Q500	1058.00	409.03	413.92	416.80	2.88	416.98	3.06	413.92	415.54	0.011484	5.64	187.48	58.82	1.01
valle1	41	Q50	783.00	405.54	410.60	414.77	4.17	413.50	2.90	408.73	411.03	0.002122	2.91	268.95	62.37	0.45
valle1	41	Q200	953.00	405.54	411.18	414.77	3.59	413.50	2.32	409.10	411.67	0.002120	3.12	305.30	63.15	0.45
valle1	41	Q500	1058.00	405.54	411.52	414.77	3.25	413.50	1.98	409.32	412.05	0.002114	3.24	326.95	63.60	0.46
valle1	40.8		Bridge													
valle1	40.5	Q50	783.00	405.54	407.89	414.77	6.88	413.50	5.61	408.73	410.72	0.041905	7.45	105.06	58.19	1.77
valle1	40.5	Q200	953.00	405.54	408.16	414.77	6.61	413.50	5.34	409.10	411.34	0.039923	7.90	120.62	58.86	1.76
valle1	40.5	Q500	1058.00	405.54	408.31	414.77	6.46	413.50	5.19	409.31	411.70	0.039016	8.15	129.74	59.25	1.76
valle1	40.4	Q50	783.00	404.90	406.53	413.37	6.84	412.10	5.57	407.66	410.57	0.075529	8.90	87.97	58.30	2.31
valle1	40.4	Q200	953.00	404.90	406.78	413.37	6.59	412.10	5.32	408.03	411.19	0.068482	9.30	102.48	58.93	2.25
valle1	40.4	Q500	1058.00	404.90	406.93	413.37	6.44	412.10	5.17	408.25	411.55	0.065211	9.53	111.07	59.30	2.22
valle1	40	Q50	783.00	405.04	408.26	410.39	2.13	410.63	2.37	407.79	408.96	0.006515	3.70	211.50	83.47	0.74
valle1	40	Q200	953.00	405.04	408.37	410.39	2.02	410.63	2.26	408.08	409.32	0.008376	4.31	221.03	83.72	0.85
valle1	40	Q500	1058.00	405.04	408.43	410.39	1.96	410.63	2.20	408.26	409.55	0.009578	4.68	226.25	83.86	0.91
valle1	39	Q50	783.00	402.15	406.33	405.62	-0.71	405.77	-0.56	405.81	406.76	0.005173	2.90	272.52	143.61	0.65
valle1	39	Q200	953.00	402.15	406.84	405.62	-1.22	405.77	-1.07	406.03	407.24	0.003586	2.80	348.74	155.01	0.56
valle1	39	Q500	1058.00	402.15	407.14	405.62	-1.52	405.77	-1.37	406.15	407.52	0.002997	2.76	396.73	161.78	0.52

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle1	38.6	Q50	783.00	401.20	406.19	403.50	-2.69	403.58	-2.61	404.37	406.59	0.002037	2.80	279.16	65.35	0.43
valle1	38.6	Q200	953.00	401.20	406.58	403.50	-3.08	403.58	-3.00	404.71	407.08	0.002288	3.13	304.65	65.35	0.46
valle1	38.6	Q500	1058.00	401.20	406.81	403.50	-3.31	403.58	-3.23	404.91	407.37	0.002424	3.31	319.60	65.35	0.48
valle2	38.5	Q50	1062.00	400.02	404.10	403.50	-0.60	402.66	-1.44	403.20	404.64	0.003977	3.23	328.29	108.80	0.59
valle2	38.5	Q200	1283.00	400.02	404.42	403.50	-0.92	402.66	-1.76	403.51	405.06	0.004173	3.53	363.31	108.80	0.62
valle2	38.5	Q500	1421.00	400.02	404.61	403.50	-1.11	402.66	-1.95	403.67	405.31	0.004295	3.71	383.43	108.80	0.63
valle2	38	Q50	1062.00	399.39	401.87	404.33	2.46	405.17	3.30	401.87	402.84	0.012704	4.37	243.18	125.19	1.00
valle2	38	Q200	1283.00	399.39	402.14	404.33	2.19	405.17	3.03	402.14	403.23	0.012264	4.63	277.21	127.12	1.00
valle2	38	Q500	1421.00	399.39	402.30	404.33	2.03	405.17	2.87	402.30	403.46	0.012017	4.78	297.30	127.78	1.00
valle2	37.7	Q50	1062.00	396.68	399.78	401.14	1.36	401.37	1.59	398.70	400.03	0.002291	2.20	482.80	190.30	0.44
valle2	37.7	Q200	1283.00	396.68	400.14	401.14	1.00	401.37	1.23	398.90	400.42	0.002171	2.33	551.29	191.38	0.44
valle2	37.7	Q500	1421.00	396.68	400.36	401.14	0.78	401.37	1.01	399.02	400.65	0.002113	2.40	592.03	192.02	0.44
valle2	37.6	Q50	1062.00	395.78	399.23	400.24	1.01	401.42	2.19	398.48	399.66	0.004106	2.88	368.34	150.46	0.59
valle2	37.6	Q200	1283.00	395.78	399.60	400.24	0.64	401.42	1.82	398.72	400.06	0.003841	3.03	423.20	152.15	0.58
valle2	37.6	Q500	1421.00	395.78	399.81	400.24	0.43	401.42	1.61	398.87	400.30	0.003730	3.12	455.32	153.13	0.58
valle2	37.5	Q50	1062.00	395.40	399.11	400.80	1.69	401.59	2.48	397.82	399.42	0.002220	2.45	433.91	140.79	0.45
valle2	37.5	Q200	1283.00	395.40	399.48	400.80	1.32	401.59	2.11	398.05	399.83	0.002254	2.65	484.90	141.03	0.46
valle2	37.5	Q500	1421.00	395.40	399.69	400.80	1.11	401.59	1.90	398.20	400.07	0.002281	2.76	514.35	141.16	0.46
valle2	37.4	Q50	1062.00	394.99	398.89	399.53	0.64	401.94	3.05	397.37	399.22	0.002207	2.55	416.79	125.91	0.45
valle2	37.4	Q200	1283.00	394.99	399.23	399.53	0.30	401.94	2.71	397.64	399.62	0.002443	2.79	459.66	130.66	0.48
valle2	37.4	Q500	1421.00	394.99	399.42	399.53	0.11	401.94	2.52	397.81	399.86	0.002574	2.93	485.19	133.40	0.49
valle2	37.3	Q50	1062.00	394.99	398.28	398.98	0.70	400.15	1.87	397.74	398.84	0.005878	3.32	319.48	136.60	0.69
valle2	37.3	Q200	1283.00	394.99	398.56	398.98	0.42	400.15	1.59	398.00	399.21	0.006038	3.58	358.10	139.43	0.71
valle2	37.3	Q500	1421.00	394.99	398.72	398.98	0.26	400.15	1.43	398.15	399.43	0.006145	3.73	380.60	141.05	0.73
valle2	37.2	Q50	1062.00	394.97	397.20	398.16	0.96	402.62	5.42	397.20	398.12	0.013343	4.25	249.80	137.14	1.01
valle2	37.2	Q200	1283.00	394.97	397.45	398.16	0.71	402.62	5.17	397.45	398.49	0.012822	4.52	283.85	137.66	1.00
valle2	37.2	Q500	1421.00	394.97	397.62	398.16	0.54	402.62	5.00	397.62	398.70	0.012567	4.62	307.59	142.14	1.00
valle2	37.1	Q50	1062.00	394.86	397.03	402.70	5.67	402.86	5.83	396.52	397.52	0.005690	3.11	341.99	157.50	0.67
valle2	37.1	Q200	1283.00	394.86	397.32	402.70	5.38	402.86	5.54	396.75	397.88	0.005492	3.31	387.72	157.50	0.67
valle2	37.1	Q500	1421.00	394.86	397.49	402.70	5.21	402.86	5.37	396.88	398.09	0.005400	3.43	414.66	157.50	0.67
valle2	37.092		Bridge													

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle2	37.091	Q50	1062.00	394.86	396.27	402.70	6.43	402.86	6.59	396.52	397.44	0.023997	4.80	221.23	157.50	1.29
valle2	37.091	Q200	1283.00	394.86	396.45	402.70	6.25	402.86	6.41	396.75	397.79	0.023110	5.11	250.86	157.50	1.29
valle2	37.091	Q500	1421.00	394.86	396.56	402.70	6.14	402.86	6.30	396.88	397.99	0.022661	5.29	268.44	157.50	1.29
valle2	37.09	Q50	1062.00	391.75	395.70	399.59	3.89	399.60	3.90	393.41	395.85	0.000796	1.71	622.33	157.50	0.27
valle2	37.09	Q200	1283.00	391.75	396.43	399.59	3.16	399.60	3.17	393.64	396.58	0.000670	1.74	736.69	157.50	0.26
valle2	37.09	Q500	1421.00	391.75	396.91	399.59	2.68	399.60	2.69	393.77	397.06	0.000598	1.75	812.35	157.50	0.25
valle2	37	Q50	1062.00	388.39	394.68	397.87	3.19	396.34	1.66	392.64	395.18	0.002129	3.13	339.45	71.28	0.46
valle2	37	Q200	1283.00	388.39	395.45	397.87	2.42	396.34	0.89	393.03	395.99	0.001947	3.25	395.27	72.85	0.44
valle2	37	Q500	1421.00	388.39	395.98	397.87	1.89	396.34	0.36	393.27	396.52	0.001834	3.27	435.43	85.79	0.44
valle2	36.9		Bridge													
valle2	36.8	Q50	1062.00	388.39	394.58	397.87	3.29	396.34	1.76	392.64	395.10	0.002275	3.20	332.25	71.08	0.47
valle2	36.8	Q200	1283.00	388.39	395.28	397.87	2.59	396.34	1.06	393.03	395.85	0.002146	3.35	382.74	72.42	0.47
valle2	36.8	Q500	1421.00	388.39	395.72	397.87	2.15	396.34	0.62	393.27	396.32	0.002086	3.43	414.63	75.09	0.46
valle2	36.75	Q50	1062.00	388.04	394.22	391.31	-2.91	397.70	3.48	391.98	394.63	0.001590	2.90	385.52	85.56	0.41
valle2	36.75	Q200	1283.00	388.04	394.97	391.31	-3.66	397.70	2.73	392.43	395.41	0.001447	3.00	450.33	86.14	0.39
valle2	36.75	Q500	1421.00	388.04	395.43	391.31	-4.12	397.70	2.27	392.73	395.88	0.001369	3.05	490.14	86.49	0.39
valle2	36.74	Q50	1062.00	387.37	394.13	395.50	1.37	395.55	1.42	391.07	394.47	0.001192	2.59	410.70	71.01	0.34
valle2	36.74	Q200	1283.00	387.37	394.87	395.50	0.63	395.55	0.68	391.46	395.26	0.001194	2.77	463.92	71.99	0.35
valle2	36.74	Q500	1421.00	387.37	395.33	395.50	0.17	395.55	0.22	391.70	395.75	0.001187	2.86	496.90	72.62	0.35
valle2	36.73	Q50	1062.00	387.30	393.97	395.50	1.53	395.60	1.63	391.23	394.38	0.001558	2.82	376.14	70.85	0.39
valle2	36.73	Q200	1283.00	387.30	394.72	395.50	0.78	395.60	0.88	391.66	395.17	0.001548	2.98	430.54	73.71	0.39
valle2	36.73	Q500	1421.00	387.30	395.18	395.50	0.32	395.60	0.42	391.92	395.65	0.001497	3.06	464.52	73.82	0.39
valle2	36.72	Q50	1062.00	386.58	393.91	395.20	1.29	396.29	2.38	390.68	394.30	0.001309	2.74	387.27	66.04	0.36
valle2	36.72	Q200	1283.00	386.58	394.65	395.20	0.55	396.29	1.64	391.12	395.09	0.001333	2.94	436.59	67.30	0.37
valle2	36.72	Q500	1421.00	386.58	395.11	395.20	0.09	396.29	1.18	391.35	395.58	0.001333	3.04	467.54	68.07	0.37
valle2	36.71	Q50	1062.00	386.50	393.83	395.10	1.27	397.19	3.36	390.56	394.24	0.001290	2.83	375.47	62.87	0.37
valle2	36.71	Q200	1283.00	386.50	394.56	395.10	0.54	397.19	2.63	391.04	395.03	0.001327	3.04	421.79	63.81	0.38
valle2	36.71	Q500	1421.00	386.50	395.01	395.10	0.09	397.19	2.18	391.33	395.52	0.001337	3.15	450.80	64.52	0.38
valle2	36.7	Q50	1062.00	386.12	393.20	394.20	1.00	397.12	3.92	391.37	394.09	0.003441	4.19	253.58	48.66	0.59
valle2	36.7	Q200	1283.00	386.12	393.85	394.20	0.35	397.12	3.27	391.97	394.87	0.003550	4.49	285.61	49.84	0.60
valle2	36.7	Q500	1421.00	386.12	394.26	394.20	-0.06	397.12	2.86	392.30	395.36	0.003548	4.64	306.56	50.60	0.60

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle2	36.6	Q50	1062.00	386.50	392.98	393.60	0.62	397.58	4.60	391.54	394.02	0.004248	4.51	235.54	46.52	0.64
valle2	36.6	Q200	1283.00	386.50	393.60	393.60	0.00	397.58	3.98	392.11	394.80	0.004410	4.84	264.84	47.95	0.66
valle2	36.6	Q500	1421.00	386.50	394.01	393.60	-0.41	397.58	3.57	392.44	395.28	0.004390	4.99	284.56	48.67	0.66
valle2	36.5	Q50	1062.00	386.50	392.99	393.60	0.61	397.62	4.63	391.23	393.86	0.003408	4.13	256.84	49.37	0.58
valle2	36.5	Q200	1283.00	386.50	393.62	393.60	-0.02	397.62	4.00	391.78	394.63	0.003533	4.45	288.51	50.74	0.60
valle2	36.5	Q500	1421.00	386.50	394.04	393.60	-0.44	397.62	3.58	392.11	395.11	0.003509	4.59	309.71	51.24	0.60
valle2	36.4	Q50	1062.00	386.50	392.53	393.30	0.77	397.56	5.03	391.50	393.71	0.005276	4.80	221.38	47.77	0.71
valle2	36.4	Q200	1283.00	386.50	393.13	393.30	0.17	397.56	4.43	392.05	394.47	0.005369	5.12	250.35	49.26	0.73
valle2	36.4	Q500	1421.00	386.50	393.56	393.30	-0.26	397.56	4.00	392.37	394.95	0.005145	5.23	272.01	52.30	0.72
valle2	36.3	Q50	1062.00	386.50	392.61	393.70	1.09	397.24	4.63	391.35	393.62	0.004395	4.46	237.87	50.75	0.66
valle2	36.3	Q200	1283.00	386.50	393.23	393.70	0.47	397.24	4.01	391.88	394.38	0.004450	4.76	269.66	52.48	0.67
valle2	36.3	Q500	1421.00	386.50	393.66	393.70	0.04	397.24	3.58	392.20	394.86	0.004296	4.85	292.88	53.71	0.66
valle2	36.2	Q50	1062.00	386.40	392.51	393.80	1.29	397.30	4.79	391.26	393.52	0.004435	4.45	238.76	51.29	0.66
valle2	36.2	Q200	1283.00	386.40	393.13	393.80	0.67	397.30	4.17	391.79	394.27	0.004472	4.73	270.99	53.08	0.67
valle2	36.2	Q500	1421.00	386.40	393.58	393.80	0.22	397.30	3.72	392.10	394.76	0.004293	4.82	294.87	54.37	0.66
valle2	36.1	Q50	1062.00	386.40	392.19	395.90	3.71	397.74	5.55	391.06	393.38	0.005223	4.84	219.39	44.46	0.70
valle2	36.1	Q200	1283.00	386.40	392.68	395.90	3.22	397.74	5.06	391.61	394.12	0.005729	5.32	241.21	45.07	0.73
valle2	36.1	Q500	1421.00	386.40	393.06	395.90	2.84	397.74	4.68	391.94	394.60	0.005689	5.49	258.86	45.56	0.74
valle2	36.09		Bridge													
valle2	36.08	Q50	1062.00	386.40	391.66	395.90	4.24	396.80	5.14	391.06	393.15	0.007347	5.42	196.02	43.80	0.82
valle2	36.08	Q200	1283.00	386.40	391.06	395.90	4.84	396.80	5.74	391.61	393.96	0.016508	7.54	170.20	43.05	1.21
valle2	36.08	Q500	1421.00	386.40	391.36	395.90	4.54	396.80	5.44	391.94	394.43	0.016263	7.77	182.84	43.42	1.21
valle2	36	Q50	1062.00	385.85	390.70	393.62	2.92	394.82	4.12	389.97	391.08	0.004289	2.71	391.30	180.21	0.59
valle2	36	Q200	1283.00	385.85	390.99	393.62	2.63	394.82	3.83	390.24	391.41	0.004182	2.89	443.31	181.84	0.59
valle2	36	Q500	1421.00	385.85	391.12	393.62	2.50	394.82	3.70	390.37	391.59	0.004322	3.04	467.50	182.58	0.61
valle2	35	Q50	1062.00	383.26	388.82	393.56	4.74	393.78	4.96	387.83	389.63	0.009233	3.98	266.53	122.45	0.86
valle2	35	Q200	1283.00	383.26	389.35	393.56	4.21	393.78	4.43	388.91	390.07	0.008151	3.78	339.78	154.40	0.81
valle2	35	Q500	1421.00	383.26	389.63	393.56	3.93	393.78	4.15	389.15	390.33	0.006874	3.70	383.63	157.80	0.76
valle2	34	Q50	1062.00	383.73	388.45	392.88	4.43	393.48	5.03	387.19	388.85	0.002926	2.80	379.54	125.51	0.51
valle2	34	Q200	1283.00	383.73	388.97	392.88	3.91	393.48	4.51	387.50	389.39	0.002659	2.88	446.00	131.55	0.50
valle2	34	Q500	1421.00	383.73	389.28	392.88	3.60	393.48	4.20	387.68	389.71	0.002508	2.92	487.24	134.64	0.49

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle2	33.8		Bridge													
valle2	33.5	Q50	1062.00	383.73	387.92	392.88	4.96	393.48	5.56	387.19	388.50	0.005061	3.37	314.80	118.71	0.66
valle2	33.5	Q200	1283.00	383.73	388.34	392.88	4.54	393.48	5.14	387.50	388.97	0.004766	3.51	365.53	124.07	0.65
valle2	33.5	Q500	1421.00	383.73	388.60	392.88	4.28	393.48	4.88	387.68	389.25	0.004567	3.57	397.86	127.36	0.65
valle2	33	Q50	1062.00	380.00	387.21	386.60	-0.61	385.00	-2.21	385.29	387.48	0.001806	2.30	469.12	169.56	0.41
valle2	33	Q200	1283.00	380.00	387.78	386.60	-1.18	385.00	-2.78	385.73	388.06	0.001485	2.33	573.76	193.80	0.38
valle2	33	Q500	1421.00	380.00	388.12	386.60	-1.52	385.00	-3.12	385.94	388.39	0.001349	2.34	640.24	207.72	0.37
valle2	32.5	Q50	1062.00	380.00	386.19	385.00	-1.19	385.00	-1.19	384.66	386.79	0.002769	3.46	318.71	97.66	0.53
valle2	32.5	Q200	1283.00	380.00	386.85	385.00	-1.85	385.00	-1.85	385.10	387.47	0.002403	3.55	388.49	112.51	0.51
valle2	32.5	Q500	1421.00	380.00	387.21	385.00	-2.21	385.00	-2.21	385.37	387.85	0.002267	3.61	430.44	120.48	0.50
valle2	32	Q50	1062.00	378.32	385.16	386.41	1.25	397.09	11.93	383.79	385.87	0.003776	3.73	284.90	71.68	0.60
valle2	32	Q200	1283.00	378.32	385.91	386.41	0.50	397.09	11.18	384.19	386.62	0.003829	3.72	344.77	88.42	0.60
valle2	32	Q500	1421.00	378.32	386.33	386.41	0.08	397.09	10.76	384.46	387.03	0.003752	3.71	383.52	97.73	0.60
valle2	31.5	Q50	1062.00	377.25	383.83	381.11	-2.72	380.38	-3.45	382.62	384.91	0.004648	4.64	236.37	59.43	0.66
valle2	31.5	Q200	1283.00	377.25	384.45	381.11	-3.34	380.38	-4.07	383.11	385.65	0.004560	4.92	274.32	63.54	0.66
valle2	31.5	Q500	1421.00	377.25	384.77	381.11	-3.66	380.38	-4.39	383.54	386.06	0.004597	5.11	295.41	65.71	0.66
valle2	31.4	Q50	1062.00	377.20	384.31	380.72	-3.59	381.91	-2.40	381.20	384.69	0.001209	2.78	401.95	81.06	0.35
valle2	31.4	Q200	1283.00	377.20	384.97	380.72	-4.25	381.91	-3.06	381.65	385.41	0.001239	2.99	456.51	83.77	0.36
valle2	31.4	Q500	1421.00	377.20	385.32	380.72	-4.60	381.91	-3.41	381.91	385.80	0.001292	3.14	487.57	92.50	0.37
valle2	31.3	Q50	1062.00	376.96	384.32	381.65	-2.67	382.26	-2.06	381.31	384.67	0.001236	2.65	409.07	78.39	0.35
valle2	31.3	Q200	1283.00	376.96	384.98	381.65	-3.33	382.26	-2.72	381.79	385.39	0.001261	2.87	462.04	84.00	0.36
valle2	31.3	Q500	1421.00	376.96	385.34	381.65	-3.69	382.26	-3.08	382.09	385.78	0.001282	2.99	492.21	84.00	0.37
valle2	31	Q50	1062.00	377.81	382.00	383.91	1.91	383.64	1.64	382.00	383.73	0.012829	5.83	182.21	52.87	1.00
valle2	31	Q200	1283.00	377.81	382.47	383.91	1.44	383.64	1.17	382.47	384.42	0.012594	6.19	207.22	53.81	1.01
valle2	31	Q500	1421.00	377.81	382.90	383.91	1.01	383.64	0.74	382.90	384.81	0.012313	6.13	231.78	60.71	1.00
valle2	30.4	Q50	1062.00	376.80	379.10	385.03	5.93	385.49	6.39	380.46	383.46	0.050345	9.25	114.86	52.02	1.99
valle2	30.4	Q200	1283.00	376.80	379.47	385.03	5.56	385.49	6.02	380.91	384.14	0.044999	9.57	134.01	52.50	1.91
valle2	30.4	Q500	1421.00	376.80	379.69	385.03	5.34	385.49	5.80	381.15	384.52	0.043740	9.73	146.07	54.71	1.90
valle2	30.3	Q50	1062.00	375.45	377.52	383.68	6.16	384.14	6.62	379.11	382.97	0.071983	10.34	102.70	51.71	2.34
valle2	30.3	Q200	1283.00	375.45	377.85	383.68	5.83	384.14	6.29	379.55	383.68	0.064041	10.70	119.92	52.15	2.25
valle2	30.3	Q500	1421.00	375.45	378.06	383.68	5.62	384.14	6.08	379.80	384.07	0.059621	10.86	130.80	52.42	2.20

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle2	30.2	Q50	1062.00	375.45	377.61	383.68	6.07	384.14	6.53	379.11	382.60	0.062672	9.90	107.25	51.83	2.20
valle2	30.2	Q200	1283.00	375.45	377.94	383.68	5.74	384.14	6.20	379.55	383.35	0.056882	10.31	124.48	52.26	2.13
valle2	30.2	Q500	1421.00	375.45	378.15	383.68	5.54	384.14	6.00	379.80	383.76	0.053607	10.50	135.38	52.67	2.09
valle2	30.1	Q50	1062.00	371.74	378.92	383.68	4.76	384.16	5.24	375.41	379.34	0.001606	2.87	370.56	63.64	0.38
valle2	30.1	Q200	1283.00	371.74	379.72	383.68	3.96	384.16	4.44	375.90	380.19	0.001579	3.04	422.07	65.14	0.38
valle2	30.1	Q500	1421.00	371.74	380.22	383.68	3.47	384.16	3.94	376.19	380.71	0.001544	3.12	454.80	65.99	0.38
valle2	30	Q50	1062.00	372.63	377.26	383.68	6.42	384.14	6.88	377.01	378.89	0.009586	5.67	187.46	47.57	0.91
valle2	30	Q200	1283.00	372.63	378.36	383.68	5.32	384.14	5.78	377.53	379.80	0.006578	5.32	240.96	49.50	0.77
valle2	30	Q500	1421.00	372.63	379.22	383.68	4.46	384.14	4.92	377.84	380.38	0.005698	4.77	297.85	61.49	0.69
valle2	29	Q50	1062.00	368.58	377.05	381.82	4.77	381.38	4.33	373.55	377.51	0.001364	3.00	354.29	55.54	0.38
valle2	29	Q200	1283.00	368.58	378.19	381.82	3.63	381.38	3.19	374.09	378.67	0.001217	3.07	418.23	57.18	0.36
valle2	29	Q500	1421.00	368.58	378.93	381.82	2.89	381.38	2.45	374.40	379.41	0.001121	3.08	460.77	58.12	0.35
valle2	28.8		Bridge													
valle2	28.5	Q50	1062.00	368.58	375.99	381.82	5.83	381.38	5.39	373.55	376.64	0.002284	3.58	296.53	52.92	0.48
valle2	28.5	Q200	1283.00	368.58	376.63	381.82	5.19	381.38	4.75	374.09	377.39	0.002428	3.88	330.76	54.49	0.50
valle2	28.5	Q500	1421.00	368.58	376.87	381.82	4.95	381.38	4.51	374.40	377.74	0.002654	4.13	344.22	55.09	0.53
valle2	28	Q50	1062.00	368.57	375.80	380.83	5.03	380.68	4.88	374.18	376.60	0.003837	3.96	267.85	62.50	0.61
valle2	28	Q200	1283.00	368.57	376.49	380.83	4.34	380.68	4.19	374.71	377.35	0.003505	4.12	311.18	63.05	0.59
valle2	28	Q500	1421.00	368.57	376.74	380.83	4.09	380.68	3.94	375.09	377.70	0.003688	4.35	326.94	63.24	0.61
valle2	27.8		Bridge													
valle2	27.5	Q50	1062.00	368.57	374.98	380.83	5.85	380.68	5.70	374.18	376.18	0.006042	4.84	219.41	53.81	0.77
valle2	27.5	Q200	1283.00	368.57	375.64	380.83	5.19	380.68	5.04	374.71	376.90	0.006281	4.97	258.25	62.38	0.78
valle2	27.5	Q500	1421.00	368.57	374.25	380.83	6.58	380.68	6.43	375.10	377.38	0.018281	7.83	181.49	49.74	1.31
valle2	27	Q50	1062.00	367.44	373.69	375.39	1.70	374.26	0.57	372.43	374.66	0.004346	4.38	242.71	53.45	0.66
valle2	27	Q200	1283.00	367.44	374.19	375.39	1.20	374.26	0.07	372.95	375.34	0.004645	4.75	269.86	54.91	0.68
valle2	27	Q500	1421.00	367.44	374.47	375.39	0.92	374.26	-0.21	373.26	375.73	0.004793	4.97	286.14	60.47	0.70
valle2	26	Q50	1062.00	365.67	371.06	373.91	2.85	377.45	6.39	370.17	371.91	0.004930	4.10	258.91	70.35	0.68
valle2	26	Q200	1283.00	365.67	371.62	373.91	2.29	377.45	5.83	370.57	372.56	0.004617	4.29	299.00	71.97	0.67
valle2	26	Q500	1421.00	365.67	371.96	373.91	1.95	377.45	5.49	370.83	372.94	0.004442	4.39	323.69	72.96	0.67
valle2	25.8		Bridge													

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle2	25.5	Q50	1062.00	365.67	371.01	373.91	2.90	377.45	6.44	370.17	371.89	0.005117	4.15	255.81	70.22	0.69
valle2	25.5	Q200	1283.00	365.67	371.58	373.91	2.33	377.45	5.87	370.57	372.54	0.004758	4.33	296.09	71.86	0.68
valle2	25.5	Q500	1421.00	365.67	371.92	373.91	1.99	377.45	5.53	370.82	372.92	0.004561	4.43	320.89	72.85	0.67
valle2	25	Q50	1062.00	362.90	369.64	376.91	7.27	375.09	5.45	368.24	370.47	0.003843	4.06	261.74	58.80	0.61
valle2	25	Q200	1283.00	362.90	370.22	376.91	6.69	375.09	4.87	368.75	371.17	0.003874	4.33	296.54	60.63	0.62
valle2	25	Q500	1421.00	362.90	370.56	376.91	6.35	375.09	4.53	369.03	371.58	0.003892	4.48	317.33	61.70	0.63
valle2	24.8		Bridge													
valle2	24.5	Q50	1062.00	362.90	367.55	376.91	9.36	375.09	7.54	368.24	370.20	0.020829	7.22	147.13	50.03	1.34
valle2	24.5	Q200	1283.00	362.90	368.00	376.91	8.91	375.09	7.09	368.75	370.89	0.019742	7.52	170.57	52.27	1.33
valle2	24.5	Q500	1421.00	362.90	368.27	376.91	8.64	375.09	6.82	369.03	371.29	0.019254	7.70	184.59	53.56	1.32
valle2	24	Q50	1062.00	358.57	365.24	366.56	1.32	369.43	4.19	363.58	365.97	0.003233	3.79	280.55	61.08	0.56
valle2	24	Q200	1283.00	358.57	365.85	366.56	0.71	369.43	3.58	364.03	366.67	0.003276	4.03	318.71	63.72	0.57
valle2	24	Q500	1421.00	358.57	366.21	366.56	0.35	369.43	3.22	364.32	367.09	0.003293	4.16	341.75	65.22	0.58
valle2	23.8		Bridge													
valle2	23.5	Q50	1062.00	358.57	362.81	366.56	3.75	369.43	6.62	363.58	365.63	0.025309	7.45	142.62	54.00	1.46
valle2	23.5	Q200	1283.00	358.57	363.20	366.56	3.36	369.43	6.23	364.05	366.32	0.023853	7.83	163.84	54.70	1.44
valle2	23.5	Q500	1421.00	358.57	363.44	366.56	3.12	369.43	5.99	364.34	366.73	0.023041	8.04	176.80	55.13	1.43
valle2	23	Q50	1062.00	357.71	363.66	368.77	5.11	365.47	1.81	360.97	363.85	0.001061	1.90	557.69	153.00	0.32
valle2	23	Q200	1283.00	357.71	364.07	368.77	4.70	365.47	1.40	361.27	364.29	0.001101	2.06	621.33	155.13	0.33
valle2	23	Q500	1421.00	357.71	364.32	368.77	4.45	365.47	1.15	361.45	364.55	0.001121	2.16	659.05	156.18	0.34
valle2	22	Q50	1062.00	358.01	361.76	367.46	5.70	365.48	3.72	361.76	362.79	0.012653	4.49	236.62	114.58	1.00
valle2	22	Q200	1283.00	358.01	362.04	367.46	5.42	365.48	3.44	362.04	363.20	0.012226	4.78	268.30	114.63	1.00
valle2	22	Q500	1421.00	358.01	362.21	367.46	5.25	365.48	3.27	362.21	363.45	0.011968	4.94	287.41	114.66	1.00
valle2	21.75	Q50	1062.00	356.72	361.47	363.98	2.51	361.49	0.02	359.25	361.70	0.001136	2.16	492.59	117.08	0.34
valle2	21.75	Q200	1283.00	356.72	361.91	363.98	2.07	361.49	-0.42	359.53	362.19	0.001201	2.36	544.45	117.48	0.35
valle2	21.75	Q500	1421.00	356.72	361.00	363.98	2.98	361.49	0.49	359.69	361.54	0.002963	3.24	438.34	116.47	0.53
valle3	21.6	Q50	1138.00	355.59	360.25	361.96	1.71	360.74	0.49	358.35	360.52	0.001445	2.28	499.08	128.37	0.37
valle3	21.6	Q200	1373.00	355.59	360.68	361.96	1.28	360.74	0.06	358.63	360.99	0.001498	2.48	553.98	128.37	0.38
valle3	21.6	Q500	1518.00	355.59	360.93	361.96	1.03	360.74	-0.19	358.79	361.28	0.001521	2.59	586.58	128.37	0.39
valle3	21.5	Q50	1138.00	355.13	360.04	360.73	0.69	362.70	2.66	358.54	360.42	0.002270	2.73	417.58	115.91	0.46
valle3	21.5	Q200	1373.00	355.13	360.44	360.73	0.29	362.70	2.26	358.84	360.89	0.002340	2.96	464.44	116.08	0.47

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle3	21.5	Q500	1518.00	355.13	360.68	360.73	0.05	362.70	2.02	359.02	361.17	0.002366	3.08	492.44	116.19	0.48
valle3	21.46	Q50	1138.00	355.13	360.03	360.73	0.70	360.74	0.71	358.53	360.41	0.002295	2.73	416.19	115.91	0.46
valle3	21.46	Q200	1373.00	355.13	360.43	360.73	0.30	360.74	0.31	358.84	360.88	0.002364	2.97	462.98	116.08	0.47
valle3	21.46	Q500	1518.00	355.13	360.67	360.73	0.06	360.74	0.07	359.01	361.16	0.002389	3.09	490.95	116.18	0.48
valle3	21.45		Bridge													
valle3	21.41	Q50	1138.00	355.24	359.81	361.48	1.67	360.74	0.93	358.31	360.20	0.002308	2.79	408.20	111.47	0.47
valle3	21.41	Q200	1373.00	355.24	360.16	361.48	1.32	360.74	0.58	358.61	360.64	0.002494	3.07	447.53	111.65	0.49
valle3	21.41	Q500	1518.00	355.24	360.37	361.48	1.11	360.74	0.37	358.80	360.90	0.002586	3.22	470.93	111.76	0.50
valle3	21.4	Q50	1138.00	355.24	359.76	361.48	1.72	360.74	0.98	358.31	360.17	0.002412	2.83	402.71	111.44	0.47
valle3	21.4	Q200	1373.00	355.24	360.10	361.48	1.38	360.74	0.64	358.61	360.60	0.002610	3.11	441.30	111.62	0.50
valle3	21.4	Q500	1518.00	355.24	360.31	361.48	1.17	360.74	0.43	358.80	360.86	0.002706	3.27	464.34	111.73	0.51
valle3	21.2	Q50	1138.00	355.25	359.45	360.15	0.70	358.59	-0.86	358.34	359.91	0.003096	3.06	410.47	193.66	0.54
valle3	21.2	Q200	1373.00	355.25	359.85	360.15	0.30	358.59	-1.26	358.69	360.35	0.002938	3.20	488.38	195.05	0.53
valle3	21.2	Q500	1518.00	355.25	360.08	360.15	0.07	358.59	-1.49	358.91	360.60	0.002865	3.28	533.06	195.85	0.53
valle3	21.1	Q50	1138.00	355.25	359.05	361.30	2.25	358.59	-0.46	358.34	359.69	0.004922	3.56	334.83	162.53	0.66
valle3	21.1	Q200	1373.00	355.25	359.46	361.30	1.84	358.59	-0.87	358.68	360.13	0.004474	3.69	410.61	192.62	0.65
valle3	21.1	Q500	1518.00	355.25	359.72	361.30	1.58	358.59	-1.13	358.91	360.39	0.004140	3.72	460.28	193.39	0.63
valle3	21	Q50	1138.00	355.27	359.21	362.89	3.68	362.03	2.82	357.81	359.42	0.001714	2.01	564.78	202.51	0.39
valle3	21	Q200	1373.00	355.27	359.65	362.89	3.24	362.03	2.38	358.05	359.87	0.001563	2.10	653.82	205.24	0.38
valle3	21	Q500	1518.00	355.27	359.91	362.89	2.98	362.03	2.12	358.17	360.14	0.001490	2.15	707.03	206.85	0.37
valle3	20.8		Bridge													
valle3	20.5	Q50	1138.00	355.27	359.14	362.89	3.75	362.03	2.89	357.81	359.36	0.001853	2.07	550.99	202.08	0.40
valle3	20.5	Q200	1373.00	355.27	359.58	362.89	3.31	362.03	2.45	358.05	359.82	0.001671	2.15	640.09	204.81	0.39
valle3	20.5	Q500	1518.00	355.27	359.84	362.89	3.05	362.03	2.19	358.17	360.08	0.001585	2.19	693.14	206.42	0.38
valle3	20	Q50	1138.00	354.95	358.81	362.68	3.87	363.07	4.26	357.84	359.26	0.003572	2.99	380.09	129.17	0.56
valle3	20	Q200	1373.00	354.95	359.20	362.68	3.48	363.07	3.87	358.11	359.72	0.003437	3.18	431.45	129.41	0.56
valle3	20	Q500	1518.00	354.95	359.44	362.68	3.24	363.07	3.63	358.27	359.99	0.003369	3.29	461.65	129.55	0.56
valle3	19.8		Bridge													
valle3	19.5	Q50	1138.00	354.95	357.38	362.68	5.30	363.07	5.69	357.38	358.39	0.012695	4.45	255.96	128.00	1.00
valle3	19.5	Q200	1373.00	354.95	357.65	362.68	5.03	363.07	5.42	357.65	358.79	0.012298	4.73	290.20	128.17	1.00

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle3	19.5	Q500	1518.00	354.95	357.80	362.68	4.88	363.07	5.27	357.80	359.02	0.012093	4.89	310.40	128.26	1.00
valle3	19.4	Q50	1138.00	351.67	357.20	359.48	2.28	359.87	2.67	354.17	357.36	0.000623	1.76	647.73	130.14	0.25
valle3	19.4	Q200	1373.00	351.67	357.83	359.48	1.65	359.87	2.04	354.44	358.01	0.000617	1.88	729.99	130.52	0.25
valle3	19.4	Q500	1518.00	351.67	358.21	359.48	1.27	359.87	1.66	354.59	358.41	0.000609	1.95	780.07	130.76	0.25
valle3	19	Q50	1138.00	350.87	356.68	361.81	5.13	357.61	0.93	354.99	357.23	0.002625	3.29	346.10	79.97	0.50
valle3	19	Q200	1373.00	350.87	357.26	361.81	4.55	357.61	0.35	355.38	357.88	0.002758	3.49	393.44	86.25	0.52
valle3	19	Q500	1518.00	350.87	357.63	361.81	4.18	357.61	-0.02	355.61	358.27	0.002855	3.55	430.49	123.12	0.53
valle3	18	Q50	1225.00	349.76	355.52	360.44	4.92	355.08	-0.44	353.79	356.09	0.002935	3.35	365.18	87.99	0.53
valle3	18	Q200	1474.00	349.76	356.11	360.44	4.33	355.08	-1.03	354.19	356.75	0.002788	3.53	417.28	88.86	0.52
valle3	18	Q500	1630.00	349.76	356.47	360.44	3.97	355.08	-1.39	354.42	357.14	0.002705	3.63	449.14	89.39	0.52
valle3	17.5	Q50	1225.00	348.70	354.14	359.88	5.74	359.10	4.96	352.90	355.08	0.004181	4.30	284.70	61.03	0.64
valle3	17.5	Q200	1474.00	348.70	354.54	359.88	5.34	359.10	4.56	353.36	355.70	0.004684	4.77	309.12	61.29	0.68
valle3	17.5	Q500	1630.00	348.70	354.80	359.88	5.08	359.10	4.30	353.63	356.08	0.004915	5.02	324.84	61.53	0.70
valle3	17.18	Q50	1225.00	343.35	348.54	348.96	0.42	350.00	1.46	347.43	349.22	0.004044	3.66	338.85	115.57	0.62
valle3	17.18	Q200	1474.00	343.35	349.13	348.96	-0.17	350.00	0.87	347.81	349.82	0.003584	3.71	414.84	136.20	0.59
valle3	17.18	Q500	1630.00	343.35	349.41	348.96	-0.45	350.00	0.59	348.04	350.12	0.003490	3.79	453.50	138.08	0.59
vall	17.17	Q50	1229.00	343.50	348.18	349.02	0.84	350.00	1.82	347.18	348.99	0.004693	4.00	307.44	83.39	0.66
vall	17.17	Q200	1479.00	343.50	348.70	349.02	0.32	350.00	1.30	347.61	349.60	0.004615	4.21	351.72	87.07	0.67
vall	17.17	Q500	1636.00	343.50	349.04	349.02	-0.02	350.00	0.96	347.82	349.92	0.004240	4.18	413.12	135.62	0.65
vall	17.16	Q50	1229.00	343.15	348.18	348.40	0.22	349.09	0.91	346.46	348.74	0.002758	3.32	370.37	86.58	0.51
vall	17.16	Q200	1479.00	343.15	348.71	348.40	-0.31	349.09	0.38	346.84	349.34	0.002804	3.53	430.24	143.09	0.52
vall	17.16	Q500	1636.00	343.15	349.03	348.40	-0.63	349.09	0.06	347.07	349.68	0.002749	3.60	476.75	145.39	0.52
vall	17.15	Q50	1229.00	342.86	348.04	348.10	0.06	347.20	-0.84	346.27	348.60	0.002666	3.30	372.19	85.29	0.50
vall	17.15	Q200	1479.00	342.86	348.58	348.10	-0.48	347.20	-1.38	346.67	349.20	0.002588	3.50	439.58	130.23	0.50
vall	17.15	Q500	1636.00	342.86	348.91	348.10	-0.81	347.20	-1.71	346.93	349.55	0.002506	3.58	481.82	130.72	0.50
vall	17.14	Q50	1229.00	342.33	347.05	347.93	0.88	347.00	-0.05	346.20	347.98	0.005208	4.28	286.97	75.35	0.70
vall	17.14	Q200	1479.00	342.33	347.49	347.93	0.44	347.00	-0.49	346.61	348.58	0.005296	4.61	320.70	75.68	0.72
vall	17.14	Q500	1636.00	342.33	347.74	347.93	0.19	347.00	-0.74	346.86	348.92	0.005432	4.83	339.29	90.16	0.73
vall	17.13	Q50	1229.00	342.15	347.09	347.65	0.56	346.50	-0.59	345.75	347.81	0.003509	3.75	327.78	77.60	0.58
vall	17.13	Q200	1479.00	342.15	347.55	347.65	0.10	346.50	-1.05	346.17	348.40	0.003663	4.07	363.42	77.93	0.60
vall	17.13	Q500	1636.00	342.15	347.81	347.65	-0.16	346.50	-1.31	346.41	348.73	0.003747	4.25	391.26	114.35	0.61

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	17.11	Q50	1229.00	341.82	346.93	347.42	0.49	346.80	-0.13	345.71	347.65	0.004173	3.75	327.35	88.19	0.62
vall	17.11	Q200	1479.00	341.82	347.41	347.42	0.01	346.80	-0.61	346.16	348.23	0.004093	4.00	369.60	88.49	0.63
vall	17.11	Q500	1636.00	341.82	347.68	347.42	-0.26	346.80	-0.88	346.42	348.55	0.004039	4.14	403.33	124.81	0.63
vall	17.1	Q50	1229.00	341.64	346.97	347.24	0.27	345.80	-1.17	345.18	347.53	0.002410	3.33	374.78	86.59	0.49
vall	17.1	Q200	1479.00	341.64	347.45	347.24	-0.21	345.80	-1.65	345.58	348.11	0.002507	3.61	419.25	101.00	0.51
vall	17.1	Q500	1636.00	341.64	347.72	347.24	-0.48	345.80	-1.92	345.81	348.43	0.002564	3.78	446.36	101.00	0.52
vall	16.97	Q50	1229.00	341.40	346.63	347.26	0.63	352.00	5.37	345.53	347.45	0.004905	4.01	306.63	84.40	0.67
vall	16.97	Q200	1479.00	341.40	347.10	347.26	0.16	352.00	4.90	345.96	348.02	0.005200	4.25	348.13	91.79	0.70
vall	16.97	Q500	1636.00	341.40	347.37	347.26	-0.11	352.00	4.63	346.28	348.35	0.005352	4.38	373.21	95.93	0.71
vall	16.963	Q50	1229.00	341.55	346.53	347.12	0.59	352.00	5.47	345.45	347.31	0.004980	3.91	314.47	91.72	0.67
vall	16.963	Q200	1479.00	341.55	347.02	347.12	0.10	352.00	4.98	345.85	347.87	0.005003	4.09	361.63	98.81	0.68
vall	16.963	Q500	1636.00	341.55	347.30	347.12	-0.18	352.00	4.70	346.19	348.19	0.004868	4.19	396.29	143.16	0.68
vall	16.962	Q50	1229.00	341.55	346.53	347.12	0.59	352.00	5.47	345.45	347.31	0.005009	3.92	313.72	91.57	0.68
vall	16.962	Q200	1479.00	341.55	347.01	347.12	0.11	352.00	4.99	345.85	347.87	0.005038	4.10	360.78	98.75	0.68
vall	16.962	Q500	1636.00	341.55	347.29	347.12	-0.17	352.00	4.71	346.19	348.19	0.004904	4.20	395.01	143.11	0.68
vall	16.9615		Bridge													
vall	16.961	Q50	1229.00	341.55	346.39	347.12	0.73	352.00	5.61	345.45	347.24	0.005496	4.07	301.88	89.14	0.71
vall	16.961	Q200	1479.00	341.55	346.83	347.12	0.29	352.00	5.17	345.85	347.78	0.005851	4.31	343.22	97.59	0.73
vall	16.961	Q500	1636.00	341.55	347.06	347.12	0.06	352.00	4.94	346.19	348.08	0.005918	4.47	365.72	99.07	0.74
vall	16.96	Q50	1229.00	341.55	346.34	347.12	0.78	352.00	5.66	345.46	347.21	0.005698	4.13	297.38	88.21	0.72
vall	16.96	Q200	1479.00	341.55	346.77	347.12	0.35	352.00	5.23	345.86	347.75	0.006168	4.39	337.24	97.19	0.75
vall	16.96	Q500	1636.00	341.55	347.00	347.12	0.12	352.00	5.00	346.19	348.05	0.006240	4.55	359.32	98.65	0.76
vall	16.95	Q50	1229.00	340.95	345.98	348.09	2.11	351.59	5.61	345.01	346.79	0.006159	3.99	307.79	102.67	0.74
vall	16.95	Q200	1479.00	340.95	346.43	348.09	1.66	351.59	5.16	345.67	347.32	0.005660	4.17	354.41	103.40	0.72
vall	16.95	Q500	1636.00	340.95	346.66	348.09	1.43	351.59	4.93	345.92	347.61	0.005596	4.32	378.70	103.78	0.72
vall	16.94	Q50	1229.00	340.70	345.86	348.15	2.29	351.59	5.73	345.04	346.57	0.005179	3.74	328.39	107.30	0.68
vall	16.94	Q200	1479.00	340.70	346.34	348.15	1.81	351.59	5.25	345.42	347.11	0.004684	3.89	380.37	108.56	0.66
vall	16.94	Q500	1636.00	340.70	346.58	348.15	1.57	351.59	5.01	345.64	347.41	0.004622	4.02	406.90	109.19	0.66
vall	16.93	Q50	1229.00	340.50	345.45	348.02	2.57	351.59	6.14	344.66	346.21	0.005397	3.88	316.97	101.24	0.70
vall	16.93	Q200	1479.00	340.50	345.99	348.02	2.03	351.59	5.60	345.05	346.79	0.004814	3.96	373.60	106.02	0.67
vall	16.93	Q500	1636.00	340.50	346.24	348.02	1.78	351.59	5.35	345.27	347.09	0.004750	4.09	399.74	106.69	0.67

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	16.92	Q50	1229.00	340.40	345.16	348.04	2.88	351.59	6.43	344.42	346.00	0.005678	4.08	301.27	91.90	0.72
vall	16.92	Q200	1479.00	340.40	345.69	348.04	2.35	351.59	5.90	344.81	346.59	0.005746	4.20	352.21	103.95	0.73
vall	16.92	Q500	1636.00	340.40	345.94	348.04	2.10	351.59	5.65	345.05	346.89	0.005928	4.31	379.61	110.35	0.74
vall	16.91	Q50	1229.00	340.28	345.01	348.19	3.18	351.59	6.58	344.20	345.72	0.005077	3.74	328.62	105.92	0.68
vall	16.91	Q200	1479.00	340.28	345.58	348.19	2.61	351.59	6.01	344.55	346.31	0.004422	3.78	390.96	111.56	0.65
vall	16.91	Q500	1636.00	340.28	345.83	348.19	2.36	351.59	5.76	344.77	346.61	0.004412	3.90	419.12	113.85	0.65
vall	16.4	Q50	1229.00	339.80	344.61	348.00	3.39	344.00	-0.61	343.36	345.02	0.002722	2.84	439.83	159.95	0.50
vall	16.4	Q200	1479.00	339.80	345.28	348.00	2.72	344.00	-1.28	343.64	345.65	0.002553	2.74	564.19	210.00	0.48
vall	16.4	Q500	1636.00	339.80	345.61	348.00	2.39	344.00	-1.61	343.80	345.97	0.002189	2.70	635.48	210.00	0.45
vall	16.3	Q50	1229.00	338.30	343.70	348.30	4.60	344.00	0.30	341.67	344.21	0.002186	3.16	389.32	81.40	0.46
vall	16.3	Q200	1479.00	338.30	344.24	348.30	4.06	344.00	-0.24	342.06	344.83	0.002254	3.41	433.93	82.00	0.47
vall	16.3	Q500	1636.00	338.30	344.56	348.30	3.74	344.00	-0.56	342.30	345.21	0.002290	3.56	460.18	82.00	0.48
vall	16	Q50	1229.00	337.44	343.27	343.61	0.34	343.66	0.39	341.56	343.82	0.002642	3.29	374.14	91.10	0.51
vall	16	Q200	1479.00	337.44	343.84	343.61	-0.23	343.66	-0.18	342.00	344.45	0.002538	3.46	431.44	106.39	0.51
vall	16	Q500	1636.00	337.44	344.19	343.61	-0.58	343.66	-0.53	342.23	344.83	0.002426	3.55	469.34	110.94	0.51
vall	15.8		Bridge													
vall	15.5	Q50	1229.00	337.44	342.76	343.61	0.85	341.58	-1.18	341.53	343.48	0.003606	3.79	329.19	87.45	0.60
vall	15.5	Q200	1479.00	337.44	343.32	343.61	0.29	341.58	-1.74	341.97	344.12	0.003388	3.98	379.73	93.54	0.59
vall	15.5	Q500	1636.00	337.44	343.66	343.61	-0.05	341.58	-2.08	342.22	344.50	0.003265	4.08	413.34	104.86	0.58
vall	15.4	Q50	1229.00	336.74	342.93	342.91	-0.02	340.88	-2.05	340.83	343.41	0.001885	3.09	410.08	104.55	0.44
vall	15.4	Q200	1479.00	336.74	343.51	342.91	-0.60	340.88	-2.63	341.27	344.04	0.001842	3.29	472.32	111.56	0.45
vall	15.4	Q500	1636.00	336.74	343.85	342.91	-0.94	340.88	-2.97	341.52	344.42	0.001812	3.39	512.04	119.50	0.45
vall	15	Q50	1229.00	335.33	341.45	343.13	1.68	343.35	1.90	340.63	342.53	0.005590	4.62	266.21	67.07	0.74
vall	15	Q200	1479.00	335.33	341.83	343.13	1.30	343.35	1.52	341.11	343.13	0.006144	5.07	291.98	68.56	0.78
vall	15	Q500	1636.00	335.33	342.04	343.13	1.09	343.35	1.31	341.38	343.49	0.006477	5.33	306.99	69.41	0.81
vall	14	Q50	1229.00	334.78	340.70	339.54	-1.16	339.31	-1.39	339.68	341.43	0.003715	3.89	334.83	93.51	0.61
vall	14	Q200	1479.00	334.78	341.01	339.54	-1.47	339.31	-1.70	340.11	341.91	0.004154	4.32	363.93	93.80	0.65
vall	14	Q500	1636.00	334.78	341.17	339.54	-1.63	339.31	-1.86	340.32	342.18	0.004472	4.59	379.19	93.95	0.68
vall	13	Q50	1229.00	335.02	340.41	340.34	-0.07	340.66	0.25	339.58	340.93	0.004696	3.21	383.23	149.69	0.64
vall	13	Q200	1479.00	335.02	340.78	340.34	-0.44	340.66	-0.12	339.89	341.36	0.004532	3.36	441.49	159.36	0.63
vall	13	Q500	1636.00	335.02	340.99	340.34	-0.65	340.66	-0.33	340.08	341.60	0.004390	3.46	474.61	159.85	0.63

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	12.8		Bridge													
vall	12.5	Q50	1229.00	335.02	339.22	340.34	1.12	340.66	1.44	339.58	340.74	0.019617	5.46	225.09	114.38	1.24
vall	12.5	Q200	1479.00	335.02	339.52	340.34	0.82	340.66	1.14	339.89	341.15	0.019550	5.66	261.24	125.35	1.25
vall	12.5	Q500	1636.00	335.02	339.69	340.34	0.65	340.66	0.97	340.08	341.39	0.019194	5.78	282.87	129.59	1.25
vall	12	Q50	1229.00	333.38	338.41	340.01	1.60	340.04	1.63	337.10	338.83	0.002784	2.85	431.15	133.40	0.51
vall	12	Q200	1479.00	333.38	338.87	340.01	1.14	340.04	1.17	337.41	339.33	0.002690	3.00	493.53	138.04	0.51
vall	12	Q500	1636.00	333.38	339.12	340.01	0.89	340.04	0.92	337.59	339.61	0.002684	3.10	528.49	140.56	0.51
vall	11	Q50	1229.00	332.03	337.29	338.23	0.94	338.34	1.05	336.28	337.94	0.005250	3.56	345.28	123.47	0.68
vall	11	Q200	1479.00	332.03	337.85	338.23	0.38	338.34	0.49	336.79	338.47	0.005086	3.51	421.44	150.61	0.67
vall	11	Q500	1636.00	332.03	338.16	338.23	0.07	338.34	0.18	336.97	338.78	0.004866	3.47	471.68	166.10	0.66
vall	10.3	Q50	1229.00	328.89	335.77	333.44	-2.33	340.00	4.23	334.54	336.52	0.003032	3.98	349.31	107.79	0.56
vall	10.3	Q200	1479.00	328.89	336.29	333.44	-2.85	340.00	3.71	334.98	337.08	0.002961	4.16	405.34	108.04	0.56
vall	10.3	Q500	1636.00	328.89	336.59	333.44	-3.15	340.00	3.41	335.24	337.42	0.002921	4.26	438.38	108.19	0.56
vall	10.2	Q50	1229.00	329.00	335.52	333.24	-2.28	340.00	4.48	334.19	336.19	0.002668	3.79	363.19	97.07	0.53
vall	10.2	Q200	1479.00	329.00	336.03	333.24	-2.79	340.00	3.97	334.76	336.77	0.002694	4.02	412.26	97.27	0.53
vall	10.2	Q500	1636.00	329.00	336.32	333.24	-3.08	340.00	3.68	335.01	337.11	0.002709	4.15	441.09	97.39	0.54
vall	10.1	Q50	1229.00	328.69	335.34	336.02	0.68	340.00	4.66	333.81	335.93	0.003005	3.40	361.61	88.39	0.54
vall	10.1	Q200	1479.00	328.69	335.83	336.02	0.19	340.00	4.17	334.22	336.51	0.003101	3.65	405.53	91.23	0.55
vall	10.1	Q500	1636.00	328.69	336.12	336.02	-0.10	340.00	3.88	334.47	336.85	0.003109	3.78	436.17	104.20	0.56
vall	10	Q50	1229.00	329.04	335.20	334.59	-0.61	334.11	-1.09	333.69	335.65	0.002615	3.01	423.44	133.59	0.50
vall	10	Q200	1479.00	329.04	335.74	334.59	-1.15	334.11	-1.63	334.10	336.22	0.002324	3.11	497.39	138.42	0.48
vall	10	Q500	1636.00	329.04	336.06	334.59	-1.47	334.11	-1.95	334.35	336.55	0.002187	3.17	542.56	141.28	0.47
vall	9.8		Bridge													
vall	9.5	Q50	1229.00	329.04	333.08	334.59	1.51	334.11	1.03	333.69	335.21	0.022300	6.47	190.07	82.24	1.36
vall	9.5	Q200	1479.00	329.04	333.40	334.59	1.19	334.11	0.71	334.10	335.76	0.022334	6.81	217.28	86.88	1.37
vall	9.5	Q500	1636.00	329.04	333.58	334.59	1.01	334.11	0.53	334.35	336.09	0.022511	7.02	233.17	89.48	1.39
vall	9.4	Q50	1229.00	328.96	334.44	339.16	4.72	332.42	-2.02	332.49	334.84	0.001858	2.82	436.46	97.90	0.43
vall	9.4	Q200	1479.00	328.96	334.99	339.16	4.18	332.42	-2.57	332.82	335.45	0.001858	3.02	489.82	97.99	0.43
vall	9.4	Q500	1636.00	328.96	335.35	339.16	3.81	332.42	-2.93	333.02	335.84	0.001813	3.11	525.71	98.05	0.43
vall	9.3	Q50	1229.00	328.36	334.35	339.06	4.71	331.88	-2.47	332.53	334.70	0.001808	2.64	466.22	114.47	0.42
vall	9.3	Q200	1479.00	328.36	334.91	339.06	4.15	331.88	-3.03	332.84	335.30	0.001725	2.79	530.44	114.56	0.41

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	9.3	Q500	1636.00	328.36	335.29	339.06	3.77	331.88	-3.41	333.01	335.70	0.001638	2.85	573.78	114.62	0.41
vall	9.1	Q50	1229.00	327.20	333.99	335.00	1.01	335.51	1.52	332.40	334.33	0.002028	2.59	474.48	134.37	0.44
vall	9.1	Q200	1479.00	327.20	334.60	335.00	0.40	335.51	0.91	332.70	334.96	0.001771	2.65	557.35	137.31	0.42
vall	9.1	Q500	1636.00	327.20	335.01	335.00	-0.01	335.51	0.50	332.87	335.38	0.001596	2.66	614.65	139.26	0.40
vall	9	Q50	1252.00	326.74	332.63	335.48	2.85	333.90	1.27	331.41	333.63	0.004639	4.43	282.73	64.80	0.68
vall	9	Q200	1503.00	326.74	333.11	335.48	2.37	333.90	0.79	331.96	334.27	0.005067	4.77	314.78	68.75	0.71
vall	9	Q500	1659.00	326.74	333.55	335.48	1.93	333.90	0.35	332.25	334.71	0.005681	4.77	347.91	86.26	0.75
vall	8.5	Q50	1252.00	326.39	331.17	335.00	3.83	331.35	0.18	330.76	332.38	0.007597	4.88	256.78	74.86	0.84
vall	8.5	Q200	1503.00	326.39	331.64	335.00	3.36	331.35	-0.29	331.19	332.99	0.007315	5.14	292.22	76.00	0.84
vall	8.5	Q500	1659.00	326.39	331.91	335.00	3.09	331.35	-0.56	331.43	333.34	0.007167	5.30	313.14	76.36	0.84
vall	8	Q50	1252.00	324.55	330.52	329.27	-1.25	329.94	-0.58	328.75	331.14	0.002543	3.51	371.01	100.32	0.51
vall	8	Q200	1503.00	324.55	331.07	329.27	-1.80	329.94	-1.13	329.17	331.75	0.002482	3.72	431.02	115.90	0.51
vall	8	Q500	1659.00	324.55	331.42	329.27	-2.15	329.94	-1.48	329.43	332.13	0.002389	3.80	471.81	118.79	0.51
vall	7.8		Bridge													
vall	7.5	Q50	1252.00	324.55	330.21	329.27	-0.94	329.94	-0.27	328.75	330.93	0.003216	3.78	340.70	95.03	0.56
vall	7.5	Q200	1503.00	324.55	330.72	329.27	-1.45	329.94	-0.78	329.17	331.53	0.003179	4.03	391.44	107.12	0.57
vall	7.5	Q500	1659.00	324.55	331.03	329.27	-1.76	329.94	-1.09	329.43	331.88	0.003116	4.15	426.10	115.73	0.57
vall	7	Q50	1252.00	324.33	330.02	328.75	-1.27	329.51	-0.51	328.65	330.71	0.003222	3.72	347.55	99.49	0.57
vall	7	Q200	1503.00	324.33	330.54	328.75	-1.79	329.51	-1.03	329.12	331.31	0.003141	3.95	409.31	138.35	0.57
vall	7	Q500	1659.00	324.33	330.88	328.75	-2.13	329.51	-1.37	329.36	331.66	0.002944	4.00	459.15	151.59	0.56
vall	6.8		Bridge													
vall	6.5	Q50	1252.00	324.33	328.10	328.75	0.65	329.51	1.41	328.65	330.38	0.021118	6.69	187.14	73.32	1.34
vall	6.5	Q200	1503.00	324.33	328.47	328.75	0.28	329.51	1.04	329.12	330.97	0.019761	7.01	214.54	74.34	1.32
vall	6.5	Q500	1659.00	324.33	328.70	328.75	0.05	329.51	0.81	329.36	331.32	0.018960	7.17	231.47	74.97	1.30
vall	6.3	Q50	1252.00	322.35	328.17	325.40	-2.77	325.15	-3.02	326.36	328.70	0.002182	3.25	392.65	85.30	0.48
vall	6.3	Q200	1503.00	322.35	328.76	325.40	-3.36	325.15	-3.61	326.74	329.37	0.002121	3.47	443.80	87.30	0.48
vall	6.3	Q500	1659.00	322.35	328.89	325.40	-3.49	325.15	-3.74	326.94	329.59	0.002379	3.73	455.34	87.30	0.51
vall	6.2	Q50	1252.00	322.15	328.22	327.10	-1.12	330.40	2.18	326.15	328.60	0.002169	2.72	461.03	125.81	0.45
vall	6.2	Q200	1503.00	322.15	328.86	327.10	-1.76	330.40	1.54	326.55	329.25	0.001860	2.79	541.12	126.79	0.43
vall	6.2	Q500	1659.00	322.15	329.02	327.10	-1.92	330.40	1.38	327.07	329.46	0.002015	2.96	561.12	127.03	0.45

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	6.1	Q50	1252.00	322.00	328.21	326.80	-1.41	329.45	1.24	325.94	328.55	0.001603	2.64	491.64	122.50	0.40
vall	6.1	Q200	1503.00	322.00	328.84	326.80	-2.04	329.45	0.61	326.42	329.21	0.001499	2.73	570.01	125.95	0.39
vall	6.1	Q500	1659.00	322.00	329.00	326.80	-2.20	329.45	0.45	326.81	329.42	0.001666	2.91	589.81	127.51	0.42
vall	6	Q50	1252.00	319.67	326.69	328.14	1.45	331.57	4.88	325.06	327.48	0.003244	3.94	317.85	65.47	0.57
vall	6	Q200	1503.00	319.67	327.42	328.14	0.72	331.57	4.15	325.53	328.28	0.003042	4.11	366.13	67.09	0.56
vall	6	Q500	1659.00	319.67	328.23	328.14	-0.09	331.57	3.34	325.82	328.46	0.000933	2.44	844.94	222.48	0.32
vall	5	Q50	1252.00	319.12	325.79	325.50	-0.29	323.91	-1.88	324.01	326.57	0.002920	3.99	357.88	133.05	0.54
vall	5	Q200	1503.00	319.12	326.96	325.50	-1.46	323.91	-3.05	324.53	327.51	0.001770	3.52	514.65	135.73	0.43
vall	5	Q500	1659.00	319.12	327.64	325.50	-2.14	323.91	-3.73	325.54	328.11	0.001387	3.32	606.73	137.27	0.39
vall	4.8		Bridge													
vall	4.5	Q50	1252.00	319.12	325.28	325.50	0.22	323.91	-1.37	324.01	326.37	0.004444	4.63	271.83	55.62	0.65
vall	4.5	Q200	1503.00	319.12	326.56	325.50	-1.06	323.91	-2.65	324.53	327.25	0.002354	3.90	460.16	134.80	0.49
vall	4.5	Q500	1659.00	319.12	327.26	325.50	-1.76	323.91	-3.35	325.54	327.83	0.001763	3.62	555.41	136.41	0.43
vall	4	Q50	1252.00	318.35	325.18	325.75	0.57	327.76	2.58	322.89	325.87	0.002561	3.67	341.10	59.29	0.49
vall	4	Q200	1503.00	318.35	326.41	325.75	-0.66	327.76	1.35	323.37	326.98	0.001796	3.41	468.01	84.82	0.42
vall	4	Q500	1659.00	318.35	327.09	325.75	-1.34	327.76	0.67	323.65	327.63	0.001570	3.36	525.67	85.91	0.40
vall	3.8		Bridge													
vall	3.5	Q50	1252.00	318.35	324.65	325.75	1.10	327.76	3.11	322.89	325.48	0.003417	4.04	310.03	58.35	0.56
vall	3.5	Q200	1503.00	318.35	325.92	325.75	-0.17	327.76	1.84	323.37	326.61	0.002330	3.73	426.64	84.02	0.47
vall	3.5	Q500	1659.00	318.35	326.72	325.75	-0.97	327.76	1.04	323.65	327.33	0.001880	3.57	493.73	85.30	0.43
vall	3.4	Q50	1252.00	316.85	324.97	323.13	-1.84	326.26	1.29	321.39	325.35	0.001181	2.81	473.44	84.90	0.34
vall	3.4	Q200	1503.00	316.85	326.14	323.13	-3.01	326.26	0.12	321.87	326.51	0.000976	2.78	574.24	86.80	0.32
vall	3.4	Q500	1659.00	316.85	326.89	323.13	-3.76	326.26	-0.63	322.15	327.26	0.000851	2.76	640.12	87.97	0.30
vall	3	Q50	1252.00	315.45	324.63	322.37	-2.26	322.75	-1.88	320.15	324.98	0.000862	2.70	506.50	101.99	0.30
vall	3	Q200	1503.00	315.45	325.88	322.37	-3.51	322.75	-3.13	320.66	326.21	0.000691	2.65	634.04	101.99	0.28
vall	3	Q500	1659.00	315.45	326.67	322.37	-4.30	322.75	-3.92	320.96	326.99	0.000605	2.62	716.47	105.43	0.26
vall	2.8		Bridge													
vall	2.5	Q50	1252.00	315.45	324.50	322.37	-2.13	322.75	-1.75	320.15	324.87	0.000917	2.75	493.78	101.44	0.31
vall	2.5	Q200	1503.00	315.45	325.73	322.37	-3.36	322.75	-2.98	320.66	326.07	0.000738	2.71	618.74	101.99	0.28
vall	2.5	Q500	1659.00	315.45	326.51	322.37	-4.14	322.75	-3.76	320.96	326.84	0.000647	2.68	699.53	105.43	0.27

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	2.2	Q50	1252.00	316.45	324.19	325.50	1.31	326.10	1.91	321.19	324.72	0.001706	3.22	389.08	59.58	0.40
vall	2.2	Q200	1503.00	316.45	325.40	325.50	0.10	326.10	0.70	321.64	325.94	0.001451	3.25	465.59	64.62	0.37
vall	2.2	Q500	1659.00	316.45	326.19	325.50	-0.69	326.10	-0.09	321.92	326.72	0.001292	3.25	517.27	70.50	0.36
vall	2	Q50	1252.00	315.10	324.26	324.79	0.53	325.13	0.87	319.85	324.57	0.000800	2.48	505.13	68.68	0.29
vall	2	Q200	1503.00	315.10	325.48	324.79	-0.69	325.13	-0.35	320.35	325.81	0.000708	2.55	592.44	75.90	0.28
vall	2	Q500	1659.00	315.10	326.26	324.79	-1.47	325.13	-1.13	320.63	326.60	0.000639	2.57	652.11	75.90	0.27
vall	1.8		Bridge													
vall	1.5	Q50	1252.00	315.10	323.46	324.79	1.33	325.13	1.67	319.85	323.85	0.001138	2.78	450.26	68.07	0.35
vall	1.5	Q200	1503.00	315.10	324.28	324.79	0.51	325.13	0.85	320.35	324.73	0.001143	2.97	506.63	68.69	0.35
vall	1.5	Q500	1659.00	315.10	324.77	324.79	0.02	325.13	0.36	320.63	325.25	0.001146	3.07	540.01	69.06	0.35
vall	1	Q50	1252.00	314.93	321.40	326.98	5.58	327.86	6.46	321.40	323.64	0.011147	6.63	188.79	42.53	1.00
vall	1	Q200	1503.00	314.93	322.01	326.98	4.97	327.86	5.85	322.01	324.50	0.010910	6.99	214.90	43.38	1.00
vall	1	Q500	1659.00	314.93	322.36	326.98	4.62	327.86	5.50	322.36	325.01	0.010853	7.21	230.09	43.87	1.00
vall	0.96	Q50	1252.00	314.90	318.14	317.90	-0.24	324.30	6.16	319.52	322.82	0.040582	9.64	132.75	51.67	1.83
vall	0.96	Q200	1503.00	314.90	318.51	317.90	-0.61	324.30	5.79	320.03	323.67	0.038586	10.16	151.96	51.74	1.81
vall	0.96	Q500	1659.00	314.90	318.73	317.90	-0.83	324.30	5.57	320.34	324.17	0.037526	10.44	163.44	51.79	1.80
vall	0.95	Q50	1252.00	314.70	319.75	317.50	-2.25	324.40	4.65	319.38	321.30	0.007577	5.58	231.41	56.86	0.85
vall	0.95	Q200	1503.00	314.70	320.49	317.50	-2.99	324.40	3.91	319.88	322.08	0.006524	5.68	273.31	57.17	0.80
vall	0.95	Q500	1659.00	314.70	321.00	317.50	-3.50	324.40	3.40	320.16	322.58	0.005795	5.67	302.68	57.38	0.77
vall	0.94	Q50	1252.00	314.60	319.25	317.30	-1.95	325.70	6.45	319.08	320.86	0.009142	5.74	226.48	61.45	0.92
vall	0.94	Q200	1503.00	314.60	320.30	317.30	-3.00	325.70	5.40	319.54	321.70	0.005959	5.35	292.04	62.83	0.77
vall	0.94	Q500	1659.00	314.60	320.89	317.30	-3.59	325.70	4.81	319.82	322.23	0.005002	5.25	329.32	63.60	0.71
vall	0.93	Q50	1252.00	312.40	319.59	319.30	-0.29	324.20	4.61	317.04	320.19	0.002521	3.48	373.98	71.84	0.45
vall	0.93	Q200	1503.00	312.40	320.56	319.30	-1.26	324.20	3.64	317.53	321.18	0.002176	3.53	444.35	72.19	0.42
vall	0.93	Q500	1659.00	312.40	321.13	319.30	-1.83	324.20	3.07	317.82	321.76	0.002027	3.57	485.67	72.39	0.41
vall	0.92	Q50	1252.00	311.20	319.49	319.35	-0.14	324.10	4.61	316.36	320.02	0.002516	3.22	388.49	79.16	0.46
vall	0.92	Q200	1503.00	311.20	320.51	319.35	-1.16	324.10	3.59	316.88	321.03	0.001966	3.20	469.10	79.70	0.42
vall	0.92	Q500	1659.00	311.20	321.09	319.35	-1.74	324.10	3.01	317.16	321.62	0.001760	3.22	515.94	80.01	0.40
vall	0.91	Q50	1252.00	310.70	319.35	319.85	0.50	324.00	4.65	316.18	319.95	0.001946	3.43	366.35	57.55	0.42
vall	0.91	Q200	1503.00	310.70	320.30	319.85	-0.45	324.00	3.70	316.75	320.96	0.001850	3.59	421.59	58.42	0.42
vall	0.91	Q500	1659.00	310.70	320.86	319.85	-1.01	324.00	3.14	317.10	321.55	0.001798	3.69	454.17	58.69	0.41

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	0.9	Q50	1252.00	309.20	319.05	317.75	-1.30	324.00	4.95	315.34	319.76	0.002000	3.73	337.12	45.27	0.42
vall	0.9	Q200	1503.00	309.20	319.95	317.75	-2.20	324.00	4.05	316.05	320.77	0.002038	4.00	378.92	47.27	0.43
vall	0.9	Q500	1659.00	309.20	320.48	317.75	-2.73	324.00	3.52	316.42	321.36	0.002057	4.16	404.22	48.44	0.44
vall	0.8	Q50	1252.00	309.10	318.66	324.40	5.74	322.50	3.84	316.16	319.57	0.003361	4.22	296.76	45.18	0.53
vall	0.8	Q200	1503.00	309.10	319.58	324.40	4.82	322.50	2.92	316.74	320.58	0.003316	4.43	339.00	47.14	0.53
vall	0.8	Q500	1659.00	309.10	320.12	324.40	4.28	322.50	2.38	317.09	321.17	0.003285	4.55	364.70	48.29	0.53
vall	0.7	Q50	1252.00	307.60	316.53	323.15	6.62	321.60	5.07	316.53	319.11	0.013671	7.12	175.92	34.28	1.00
vall	0.7	Q200	1503.00	307.60	317.22	323.15	5.93	321.60	4.38	317.22	320.11	0.013489	7.53	199.73	34.91	1.00
vall	0.7	Q500	1659.00	307.60	317.64	323.15	5.51	321.60	3.96	317.64	320.69	0.013309	7.74	214.47	35.30	1.00
vall	0.6	Q50	1252.00	306.85	315.79	320.85	5.06	320.85	5.06	312.84	316.12	0.001197	2.54	493.05	93.36	0.35
vall	0.6	Q200	1503.00	306.85	316.69	320.85	4.16	320.85	4.16	313.26	317.03	0.001050	2.60	578.02	95.13	0.34
vall	0.6	Q500	1659.00	306.85	317.25	320.85	3.59	320.85	3.59	313.50	317.61	0.000969	2.62	632.25	96.24	0.33
vall	0.58		Bridge													
vall	0.55	Q50	1252.00	306.55	315.50	320.55	5.05	320.55	5.05	312.55	315.83	0.001185	2.53	494.70	93.40	0.35
vall	0.55	Q200	1503.00	306.55	316.43	320.55	4.12	320.55	4.12	312.96	316.77	0.001030	2.58	581.61	95.21	0.33
vall	0.55	Q500	1659.00	306.55	317.00	320.55	3.55	320.55	3.55	313.20	317.35	0.000948	2.61	636.76	96.34	0.32
vall	0.4	Q50	1252.00	306.00	315.07	319.50	4.43	319.20	4.13	312.13	315.72	0.002047	3.57	351.05	56.07	0.45
vall	0.4	Q200	1503.00	306.00	315.94	319.50	3.56	319.20	3.26	312.73	316.66	0.001993	3.76	399.84	56.77	0.45
vall	0.4	Q500	1659.00	306.00	316.49	319.50	3.01	319.20	2.71	313.08	317.24	0.001939	3.85	431.07	57.21	0.45
vall	0.3	Q50	1252.00	305.10	314.44	316.95	2.51	318.90	4.46	312.42	315.57	0.003787	4.70	266.39	41.40	0.59
vall	0.3	Q200	1503.00	305.10	315.20	316.95	1.75	318.90	3.70	313.04	316.49	0.003936	5.05	297.82	42.04	0.61
vall	0.3	Q500	1659.00	305.10	315.70	316.95	1.25	318.90	3.20	313.40	317.07	0.003930	5.20	318.88	42.46	0.61
vall	0.29	Q50	1252.00	304.39	313.91	318.30	4.39	319.62	5.71	312.69	315.32	0.005688	5.26	238.25	44.19	0.72
vall	0.29	Q200	1503.00	304.39	314.73	318.30	3.57	319.62	4.89	313.37	316.25	0.005415	5.47	274.92	45.76	0.71
vall	0.29	Q500	1659.00	304.39	315.30	318.30	3.00	319.62	4.32	313.73	316.84	0.005058	5.51	301.15	46.67	0.69
vall	0.281	Q50	1252.00	304.02	313.85	318.33	4.48	319.69	5.84	312.78	315.30	0.005934	5.34	234.64	43.97	0.74
vall	0.281	Q200	1503.00	304.02	314.67	318.33	3.66	319.69	5.02	313.39	316.24	0.005595	5.55	270.93	45.15	0.72
vall	0.281	Q500	1659.00	304.02	315.23	318.33	3.10	319.69	4.46	313.75	316.83	0.005221	5.59	296.77	45.97	0.70
vall	0.28		Bridge													
vall	0.279	Q50	1252.00	304.02	313.06	318.33	5.27	319.69	6.63	312.78	315.05	0.009551	6.26	200.03	42.82	0.92
vall	0.279	Q200	1503.00	304.02	314.19	318.33	4.14	319.69	5.50	313.39	316.04	0.007127	6.02	249.55	44.46	0.81

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	0.279	Q500	1659.00	304.02	314.84	318.33	3.49	319.69	4.85	313.75	316.64	0.006274	5.95	278.70	45.40	0.77
vall	0.27	Q50	1252.00	304.40	313.41	317.95	4.54	319.23	5.82	312.42	314.88	0.005808	5.36	233.52	44.88	0.75
vall	0.27	Q200	1503.00	304.40	314.45	317.95	3.50	319.23	4.78	313.02	315.91	0.004886	5.34	281.30	46.85	0.70
vall	0.27	Q500	1659.00	304.40	315.07	317.95	2.88	319.23	4.16	313.38	316.53	0.004466	5.34	310.70	47.90	0.67
vall	0.26	Q50	1252.00	304.20	312.11	316.00	3.89	316.30	4.19	311.53	314.40	0.008656	6.71	186.48	31.26	0.88
vall	0.26	Q200	1503.00	304.20	312.64	316.00	3.36	316.30	3.66	312.33	315.42	0.009831	7.39	203.33	32.24	0.94
vall	0.26	Q500	1659.00	304.20	312.93	316.00	3.07	316.30	3.37	312.81	316.03	0.010579	7.80	212.74	32.78	0.98
vall	0.25	Q50	1252.00	303.90	312.68	319.20	6.52	315.50	2.82	310.04	313.71	0.003308	4.49	278.78	41.52	0.55
vall	0.25	Q200	1503.00	303.90	313.40	319.20	5.80	315.50	2.10	310.75	314.60	0.003621	4.86	309.24	43.58	0.58
vall	0.25	Q500	1659.00	303.90	313.82	319.20	5.38	315.50	1.68	311.17	315.13	0.003781	5.06	327.77	44.79	0.60
vall	0.24	Q50	1252.00	303.50	311.04	317.90	6.86	316.40	5.36	311.04	313.27	0.012593	6.63	188.90	42.35	1.00
vall	0.24	Q200	1503.00	303.50	311.65	317.90	6.25	316.40	4.75	311.65	314.13	0.012620	6.98	215.48	43.60	1.00
vall	0.24	Q500	1659.00	303.50	312.01	317.90	5.89	316.40	4.39	312.01	314.63	0.012720	7.18	230.92	44.31	1.00
vall	0.2	Q50	1252.00	299.66	304.99	316.26	11.27	316.26	11.27	303.28	305.68	0.002931	3.69	339.15	72.20	0.54
vall	0.2	Q200	1503.00	299.66	305.65	316.26	10.61	316.26	10.61	303.73	306.42	0.002814	3.88	387.79	74.06	0.54
vall	0.2	Q500	1659.00	299.66	306.05	316.26	10.21	316.26	10.21	303.99	306.85	0.002749	3.98	417.26	75.17	0.54
vall	0.18		Bridge													
vall	0.15	Q50	1252.00	299.66	302.49	316.26	13.77	316.26	13.77	303.28	305.33	0.025904	7.45	167.96	65.22	1.48
vall	0.15	Q200	1503.00	299.66	302.82	316.26	13.44	316.26	13.44	303.73	306.03	0.025652	7.94	189.24	66.13	1.50
vall	0.15	Q500	1659.00	299.66	303.01	316.26	13.25	316.26	13.25	303.99	306.45	0.025521	8.22	201.89	66.66	1.51
vall	0.02	Q50	1252.00	285.00	291.85	310.40	18.55	310.72	18.87	289.21	292.55	0.002257	3.71	337.03	53.48	0.47
vall	0.02	Q200	1503.00	285.00	292.73	310.40	17.67	310.72	17.99	289.74	293.51	0.002189	3.91	384.60	54.52	0.47
vall	0.02	Q500	1659.00	285.00	293.26	310.40	17.14	310.72	17.46	290.06	294.08	0.002151	4.01	413.39	55.14	0.47
vall	0.018		Bridge													
vall	0.015	Q50	1252.00	285.00	291.08	310.40	19.32	310.72	19.64	289.28	292.02	0.003436	4.29	291.81	52.34	0.58
vall	0.015	Q200	1503.00	285.00	291.84	310.40	18.56	310.72	18.88	289.82	292.88	0.003356	4.53	331.92	53.27	0.58
vall	0.015	Q500	1659.00	285.00	292.29	310.40	18.11	310.72	18.43	290.13	293.40	0.003309	4.66	356.17	53.83	0.58
vall	0.0085	Q50	1252.00	280.10	286.28	288.80	2.52	298.80	12.52	284.26	287.22	0.003519	4.29	291.97	47.43	0.55
vall	0.0085	Q200	1503.00	280.10	287.04	288.80	1.76	298.80	11.76	284.80	288.11	0.003564	4.58	327.84	47.48	0.56
vall	0.0085	Q500	1659.00	280.10	287.48	288.80	1.32	298.80	11.32	285.11	288.64	0.003595	4.75	348.99	47.51	0.56

HEC-RAS Plan: 06_RevF (Continued)

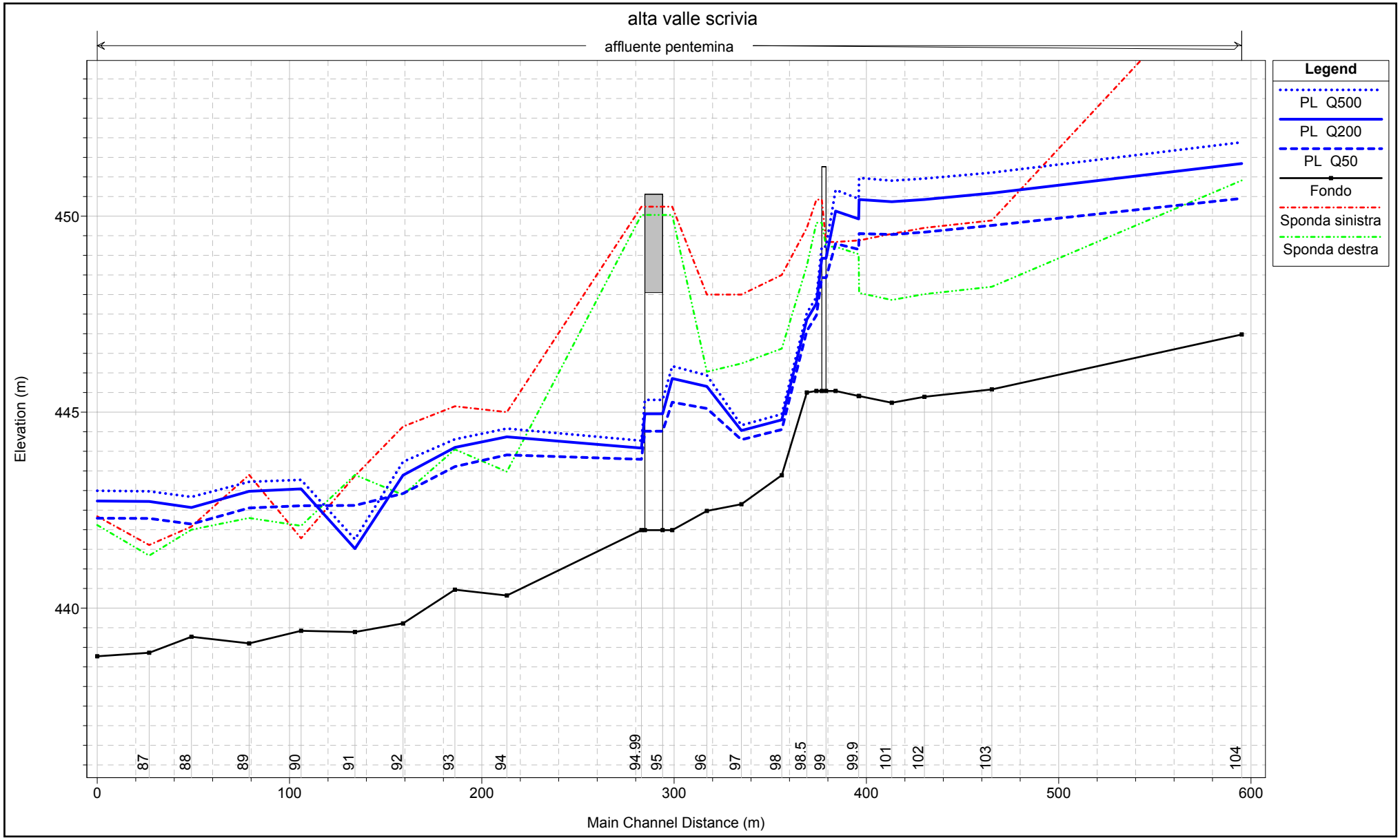
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	0.0082		Bridge													
vall	0.008	Q50	1252.00	280.10	283.37	288.80	5.43	298.80	15.43	284.26	286.73	0.025739	8.12	154.22	47.23	1.43
vall	0.008	Q200	1503.00	280.10	283.80	288.80	5.00	298.80	15.00	284.80	287.59	0.025257	8.63	174.15	47.26	1.44
vall	0.008	Q500	1659.00	280.10	284.05	288.80	4.75	298.80	14.75	285.11	288.10	0.024950	8.91	186.16	47.27	1.43
vall	0.007	Q50	1497.00	277.26	282.29	290.47	8.18	299.57	17.28	281.95	284.06	0.008294	5.90	253.86	57.40	0.90
vall	0.007	Q200	1790.00	277.26	282.97	290.47	7.50	299.57	16.60	282.49	284.87	0.007619	6.10	293.29	58.56	0.87
vall	0.007	Q500	1973.00	277.26	283.42	290.47	7.05	299.57	16.15	282.81	285.36	0.007121	6.17	319.70	59.32	0.85
vall	0.006	Q50	1497.00	274.93	281.87	278.60	-3.27	287.83	5.96	280.74	282.89	0.004197	4.55	338.46	75.03	0.66
vall	0.006	Q200	1790.00	274.93	282.79	278.60	-4.19	287.83	5.04	281.23	283.79	0.003394	4.51	408.92	77.48	0.61
vall	0.006	Q500	1973.00	274.93	283.34	278.60	-4.74	287.83	4.49	281.51	284.34	0.003050	4.50	452.18	78.95	0.58
vall	0.0055	Q50	1497.00	272.60	280.57	281.75	1.18	288.96	8.39	278.61	281.80	0.004061	4.90	305.21	45.36	0.60
vall	0.0055	Q200	1790.00	272.60	281.40	281.75	0.35	288.96	7.56	279.23	282.79	0.004106	5.22	342.67	45.67	0.61
vall	0.0055	Q500	1973.00	272.60	281.88	281.75	-0.13	288.96	7.08	279.60	283.37	0.004136	5.41	364.96	45.80	0.61
vall	0.0052		Bridge													
vall	0.005	Q50	1497.00	272.60	277.73	281.75	4.02	288.96	11.23	278.61	281.35	0.021306	8.43	177.63	44.30	1.34
vall	0.005	Q200	1790.00	272.60	278.24	281.75	3.51	288.96	10.72	279.23	282.31	0.020956	8.93	200.38	44.49	1.34
vall	0.005	Q500	1973.00	272.60	278.55	281.75	3.20	288.96	10.41	279.60	282.88	0.020763	9.22	214.07	44.60	1.34
vall	0.0045	Q50	1497.00	263.00	268.82	283.00	14.18	283.00	14.18	267.61	270.28	0.005857	5.36	279.44	48.00	0.71
vall	0.0045	Q200	1790.00	263.00	269.54	283.00	13.46	283.00	13.46	268.21	271.20	0.005861	5.70	313.99	48.00	0.71
vall	0.0045	Q500	1973.00	263.00	269.93	283.00	13.07	283.00	13.07	268.55	271.72	0.005980	5.93	332.55	48.00	0.72
vall	0.0042		Bridge													
vall	0.004	Q50	1497.00	263.00	268.12	283.00	14.88	283.00	14.88	267.62	270.01	0.008707	6.09	245.75	48.00	0.86
vall	0.004	Q200	1790.00	263.00	268.51	283.00	14.49	283.00	14.49	268.21	270.84	0.009908	6.77	264.59	48.00	0.92
vall	0.004	Q500	1973.00	263.00	268.16	283.00	14.84	283.00	14.84	268.55	271.39	0.014803	7.97	247.46	48.00	1.12
vall	0.003	Q50	1497.00	262.39	266.91	266.55	-0.36	267.31	0.40	266.91	268.77	0.011170	6.04	247.75	67.16	1.00
vall	0.003	Q200	1790.00	262.39	267.40	266.55	-0.85	267.31	-0.09	267.40	269.47	0.010851	6.38	280.54	68.36	1.00
vall	0.003	Q500	1973.00	262.39	267.68	266.55	-1.13	267.31	-0.37	267.68	269.89	0.010648	6.59	299.74	69.20	1.00
vall	0.002	Q50	1497.00	261.80	265.37	266.50	1.13	275.00	9.63	264.79	266.10	0.005831	3.78	395.67	138.60	0.71
vall	0.002	Q200	1790.00	261.80	266.00	266.50	0.50	275.00	9.00	265.08	266.70	0.004377	3.71	482.31	139.71	0.64
vall	0.002	Q500	1973.00	261.80	266.40	266.50	0.10	275.00	8.60	265.26	267.08	0.003708	3.66	539.03	140.42	0.60

HEC-RAS Plan: 06_RevF (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
vall	0.0015	Q50	1497.00	255.00	262.20	277.10	14.90	277.10	14.90	259.45	262.94	0.002257	3.82	391.62	60.07	0.48
vall	0.0015	Q200	1790.00	255.00	263.16	277.10	13.94	277.10	13.94	260.00	263.96	0.002134	3.98	449.90	61.66	0.47
vall	0.0015	Q500	1973.00	255.00	263.74	277.10	13.36	277.10	13.36	260.33	264.58	0.002066	4.06	485.79	62.61	0.47
vall	0.0012		Bridge													
vall	0.001	Q50	1497.00	255.00	258.25	277.10	18.85	277.10	18.85	259.45	262.34	0.030941	8.96	167.06	53.74	1.62
vall	0.001	Q200	1790.00	255.00	258.61	277.10	18.49	277.10	18.49	260.00	263.30	0.031321	9.60	186.48	54.25	1.65
vall	0.001	Q500	1973.00	255.00	258.82	277.10	18.28	277.10	18.28	260.33	263.88	0.031520	9.96	198.06	54.55	1.67

Torrente Pentemina

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati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PL Q200
PL Q50
Fondo
Sponda sinistra
Sponda destra
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300
400
500
600
Main Channel Distance (m)
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99.9
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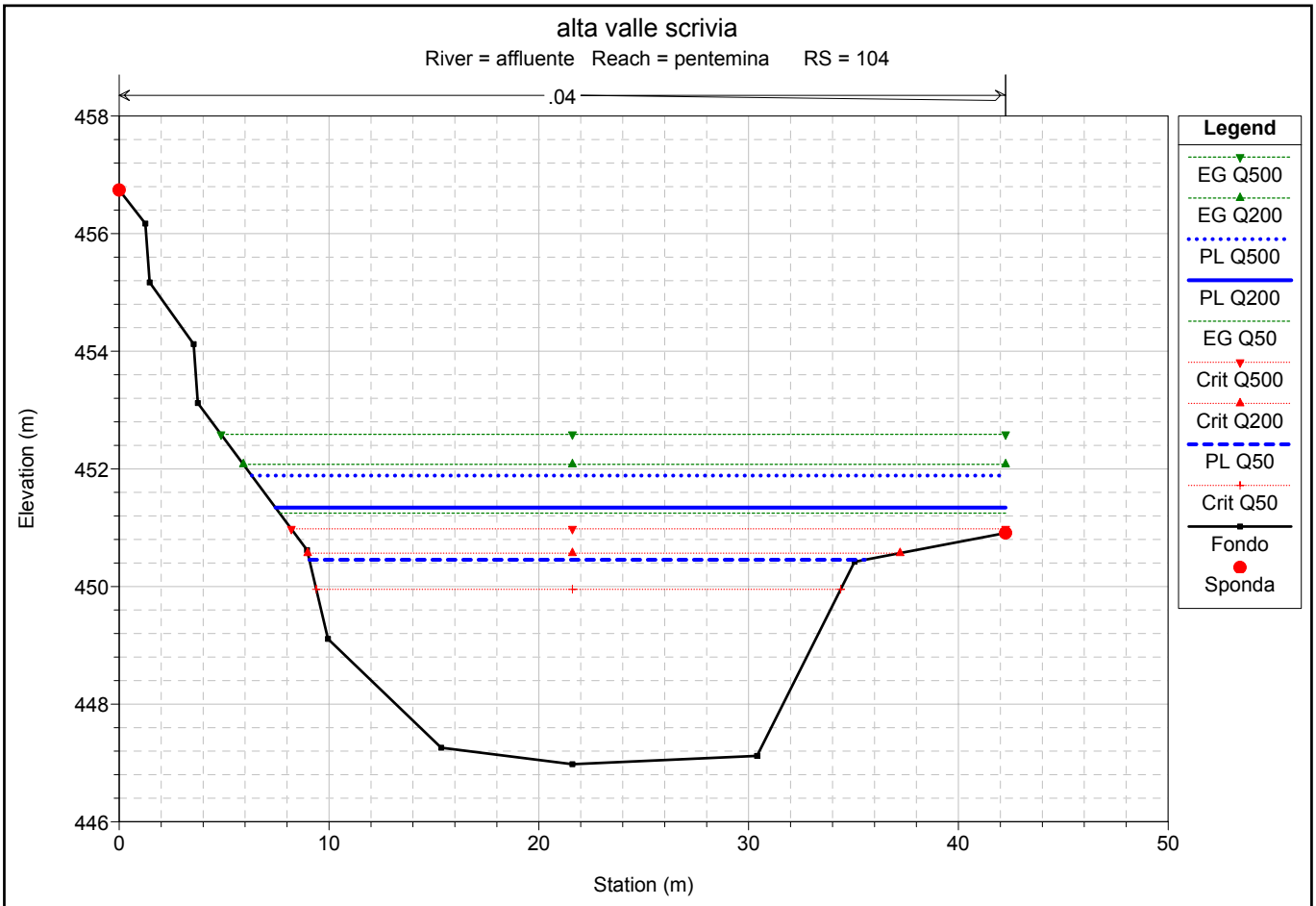
103
104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.04
Elevation (m)
Station (m)
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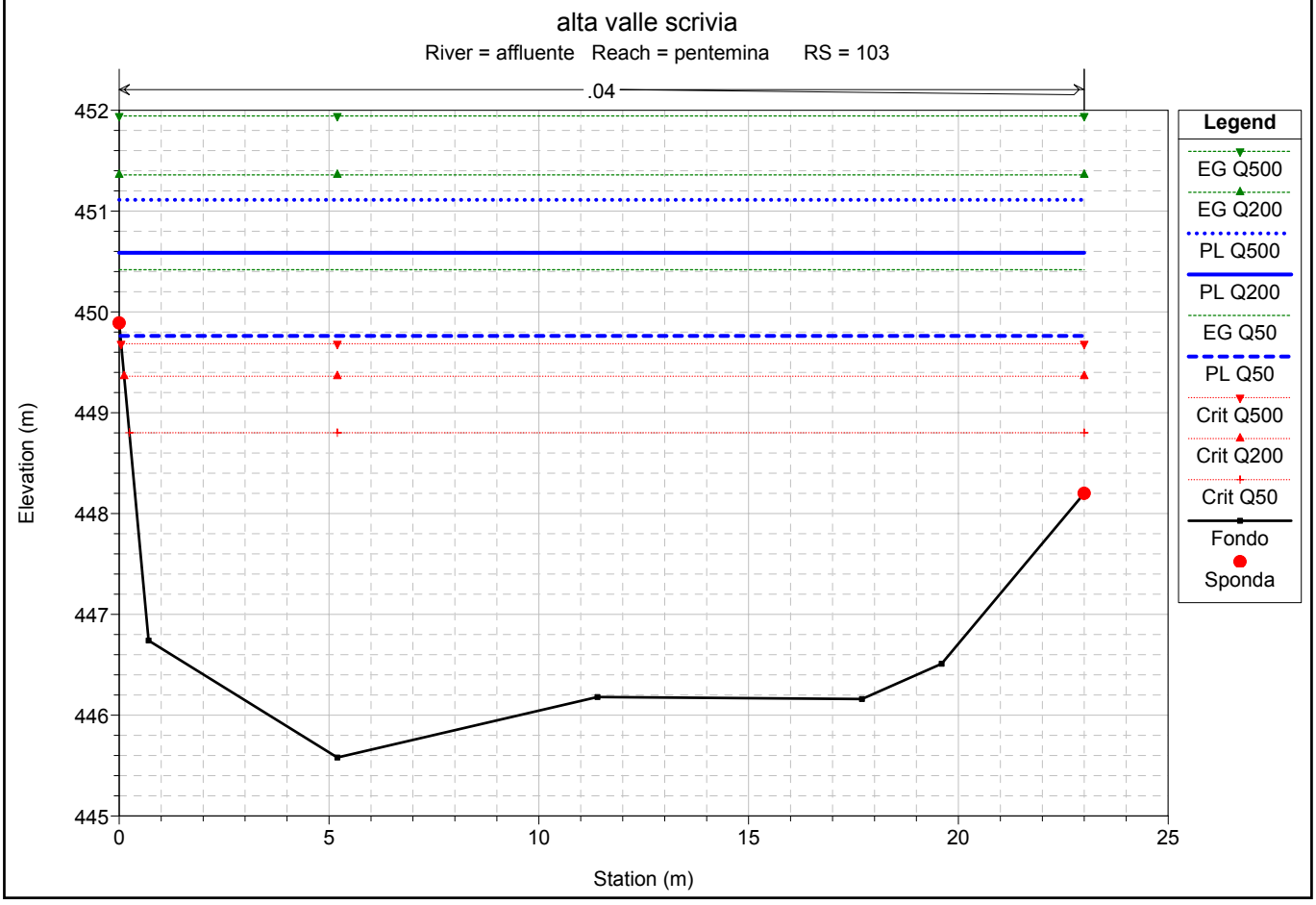
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Sponda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Station (m)
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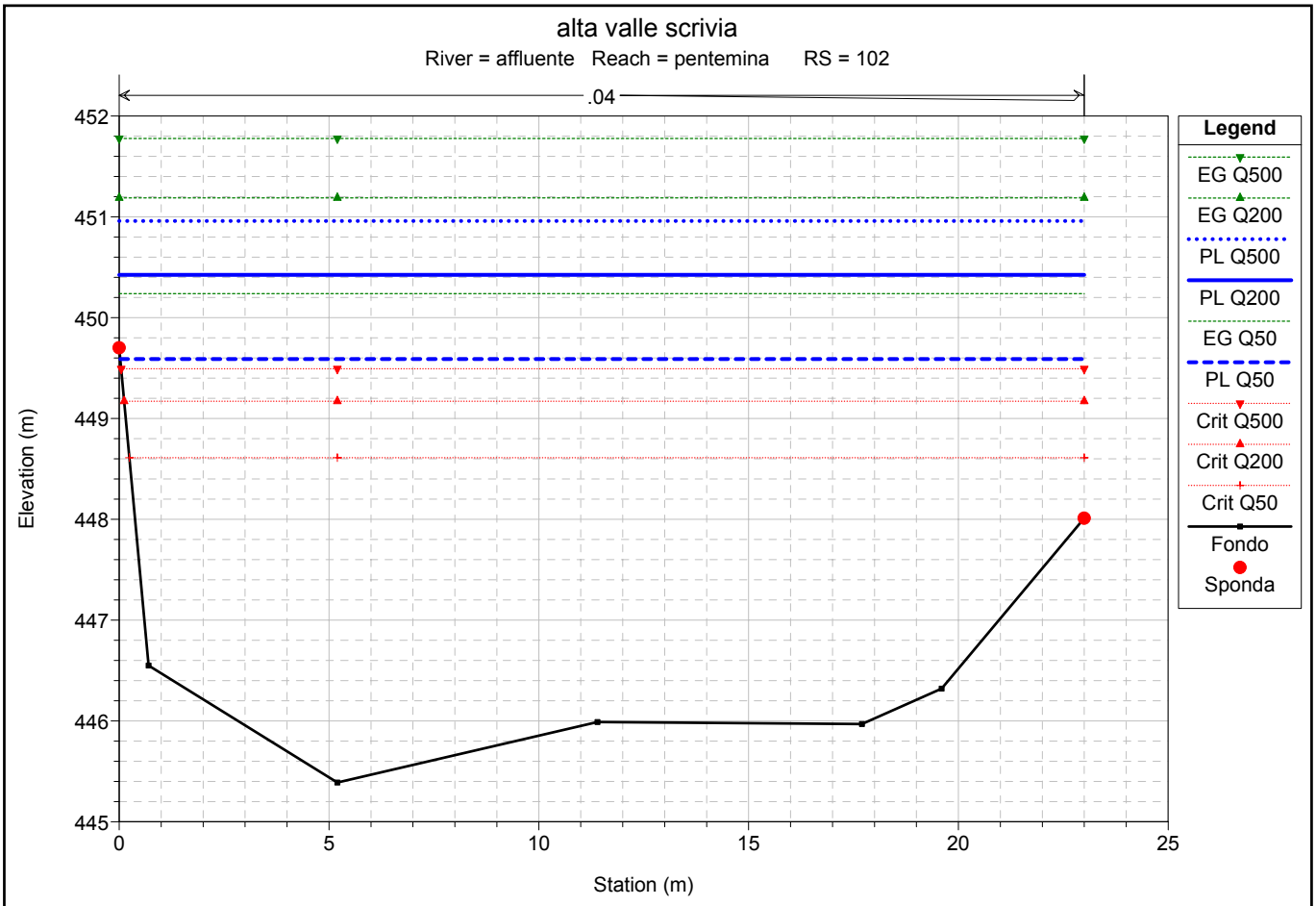
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Sponda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PL Q50
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Crit Q200
Crit Q50
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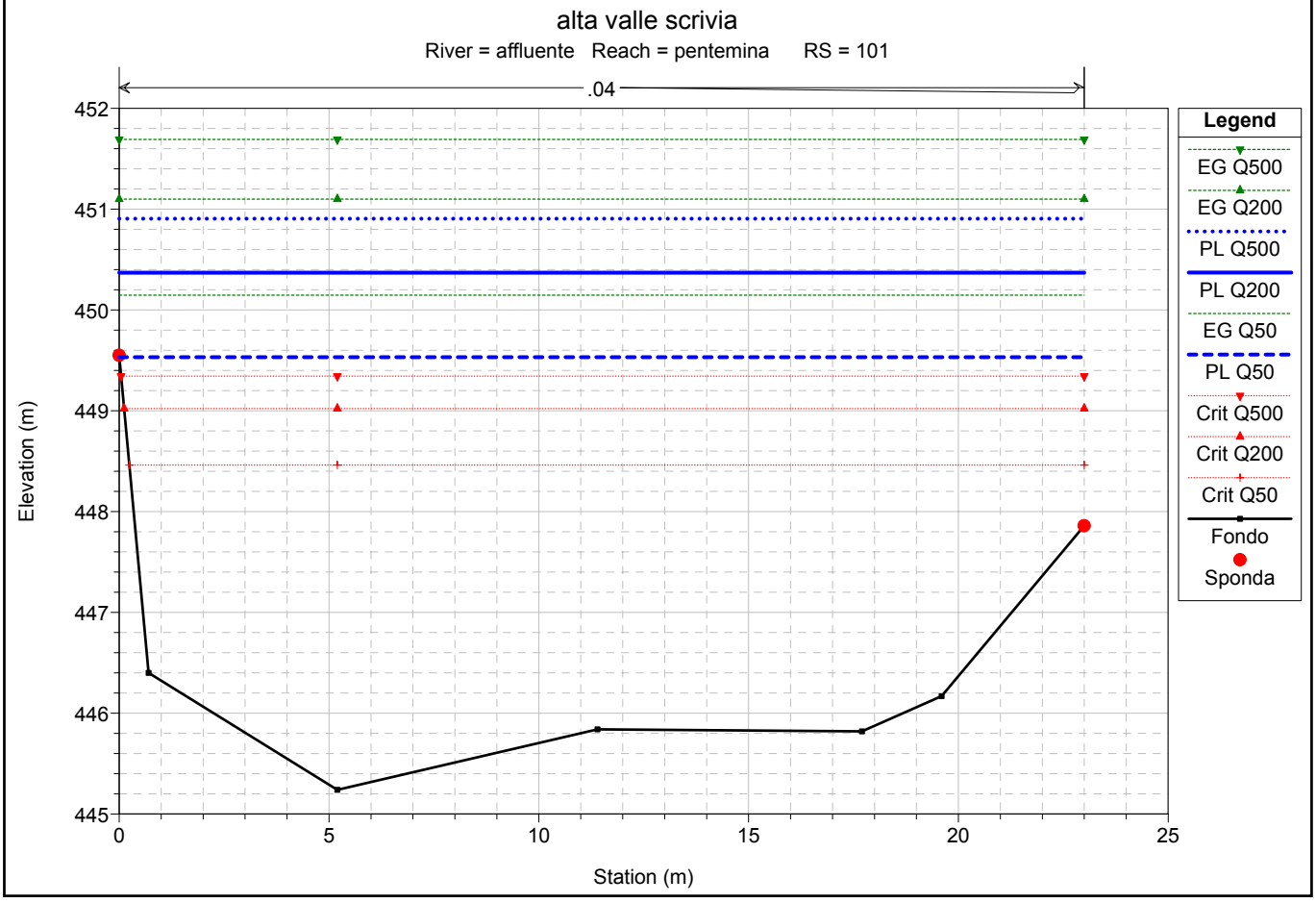
Sponda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PL Q50
Crit Q500
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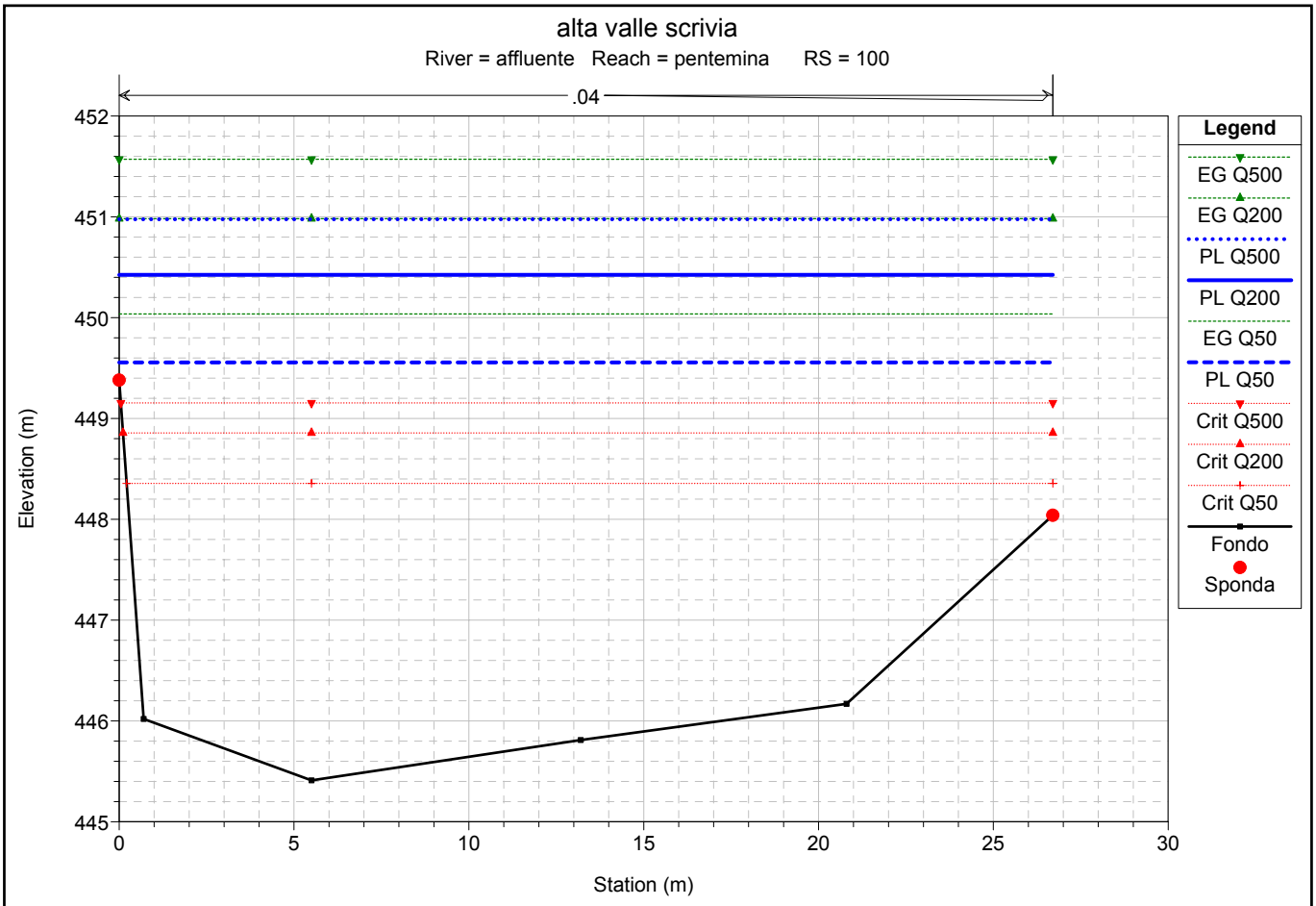
Sponda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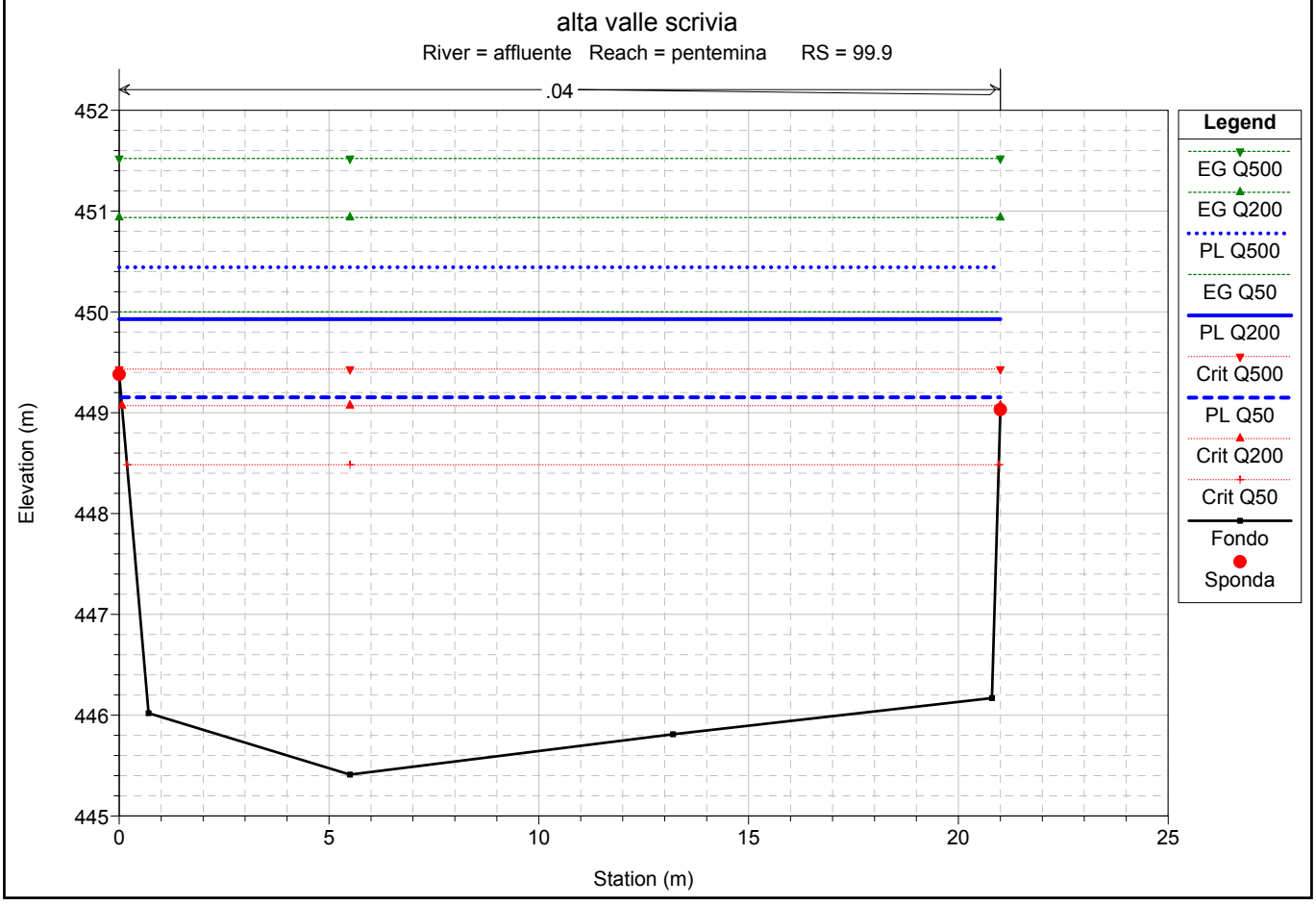
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Sponda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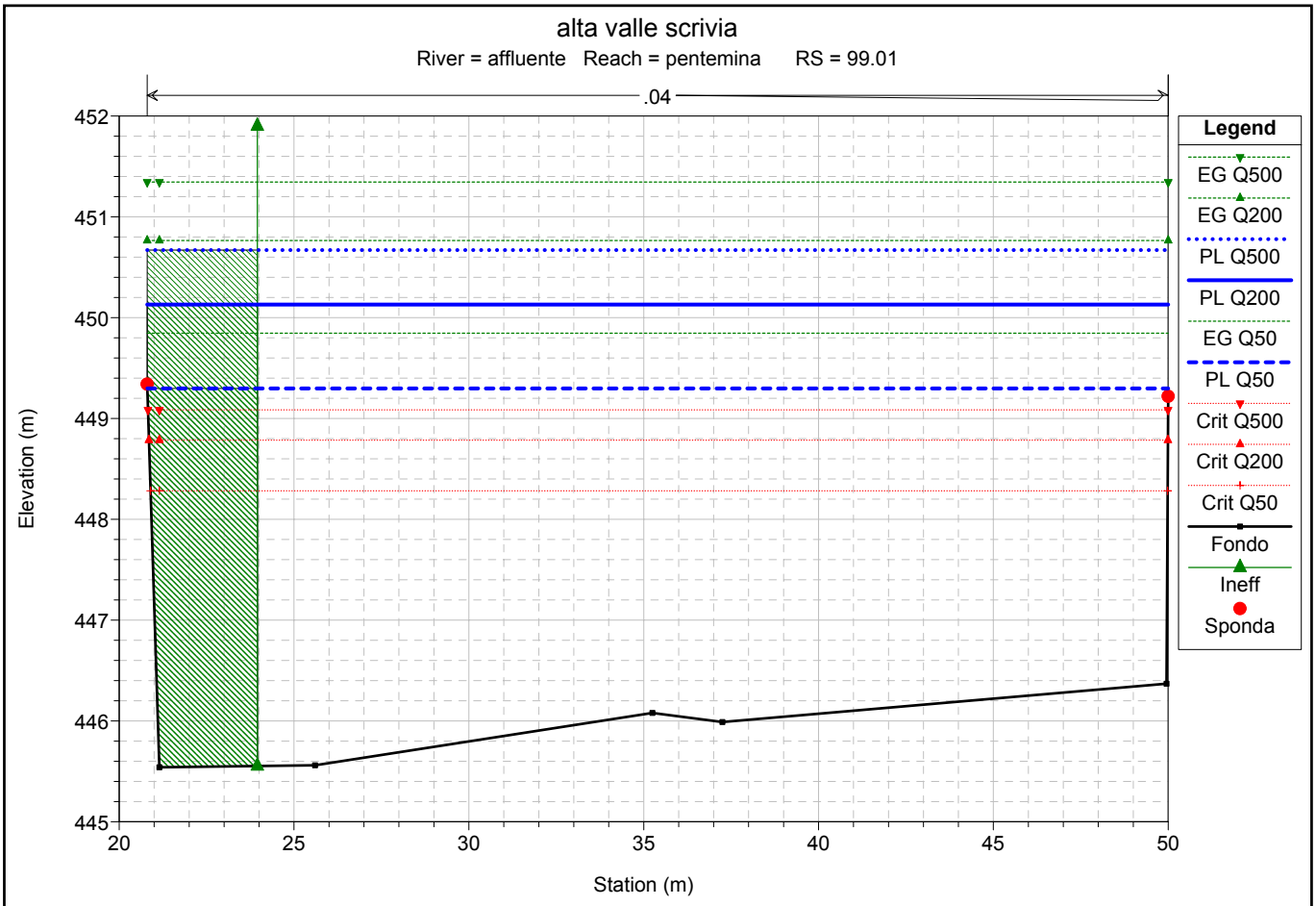
Sponda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PL Q500
PL Q200
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Crit Q500
Crit Q200
Crit Q50
Fondo
Ineff
Sponda
Elevation (m)
Station (m)
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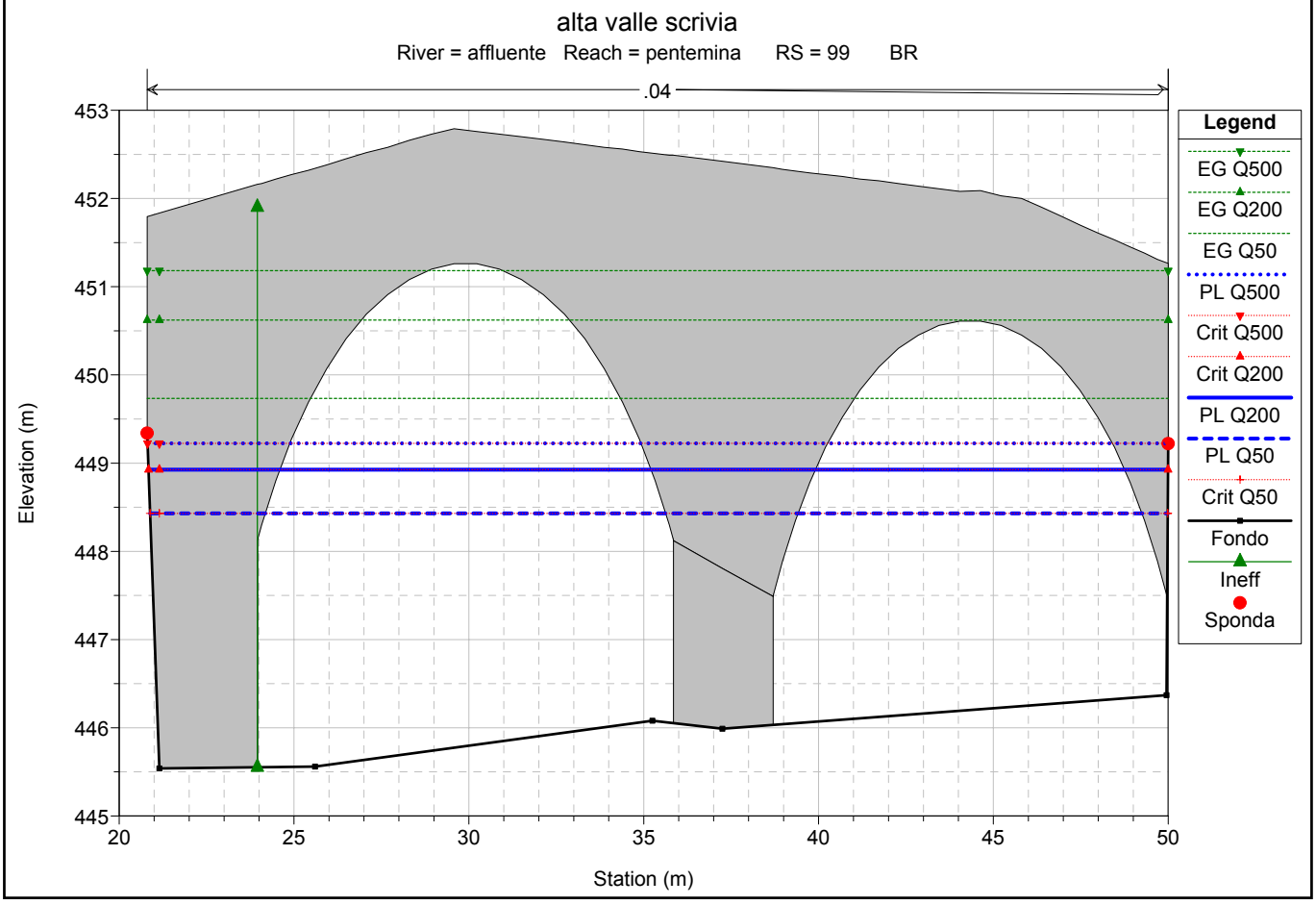
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EG Q50
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PL Q200
PL Q50
Crit Q50
Fondo
Ineff
Sponda
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Station (m)
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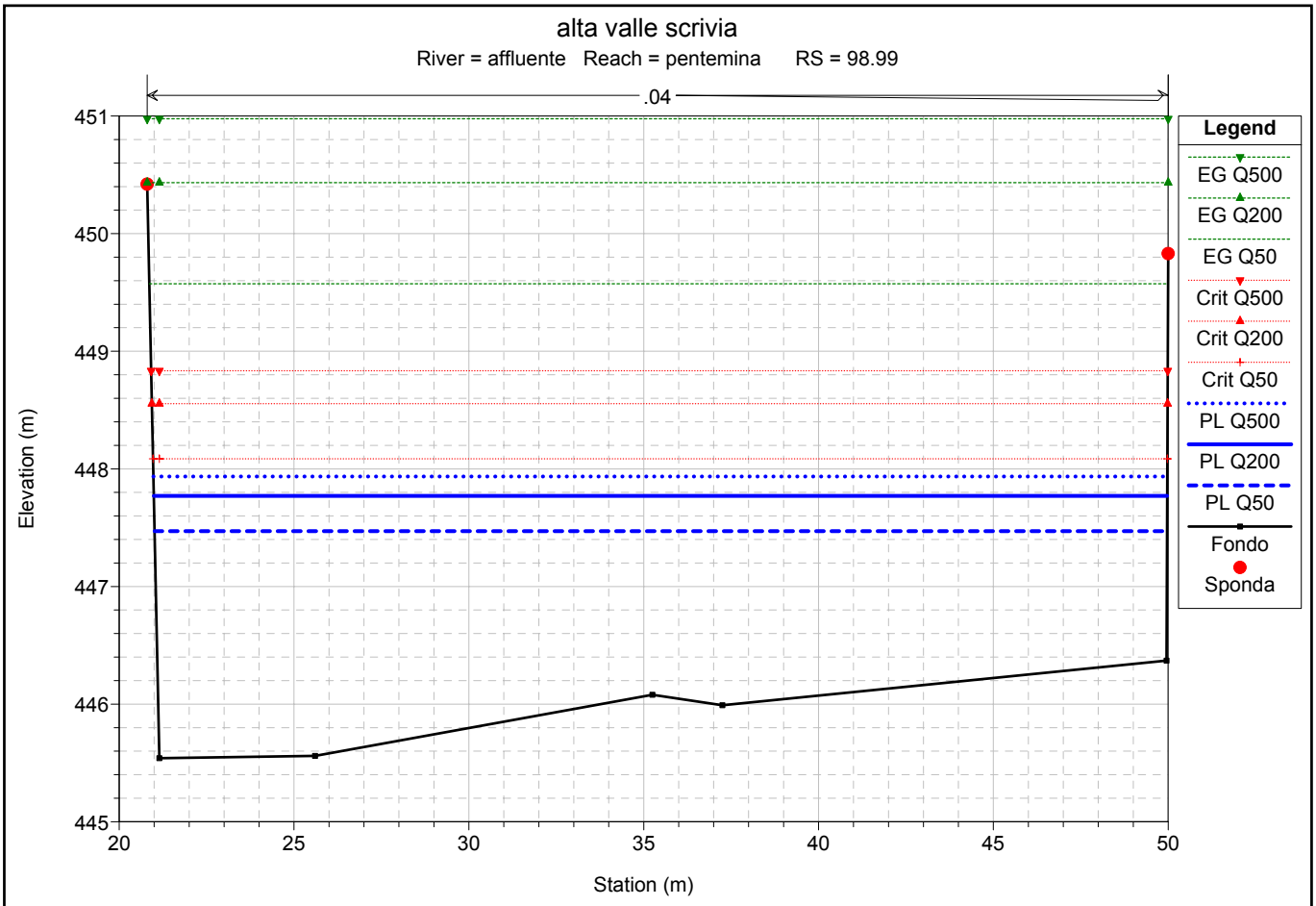
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EG Q50
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Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
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Station (m)
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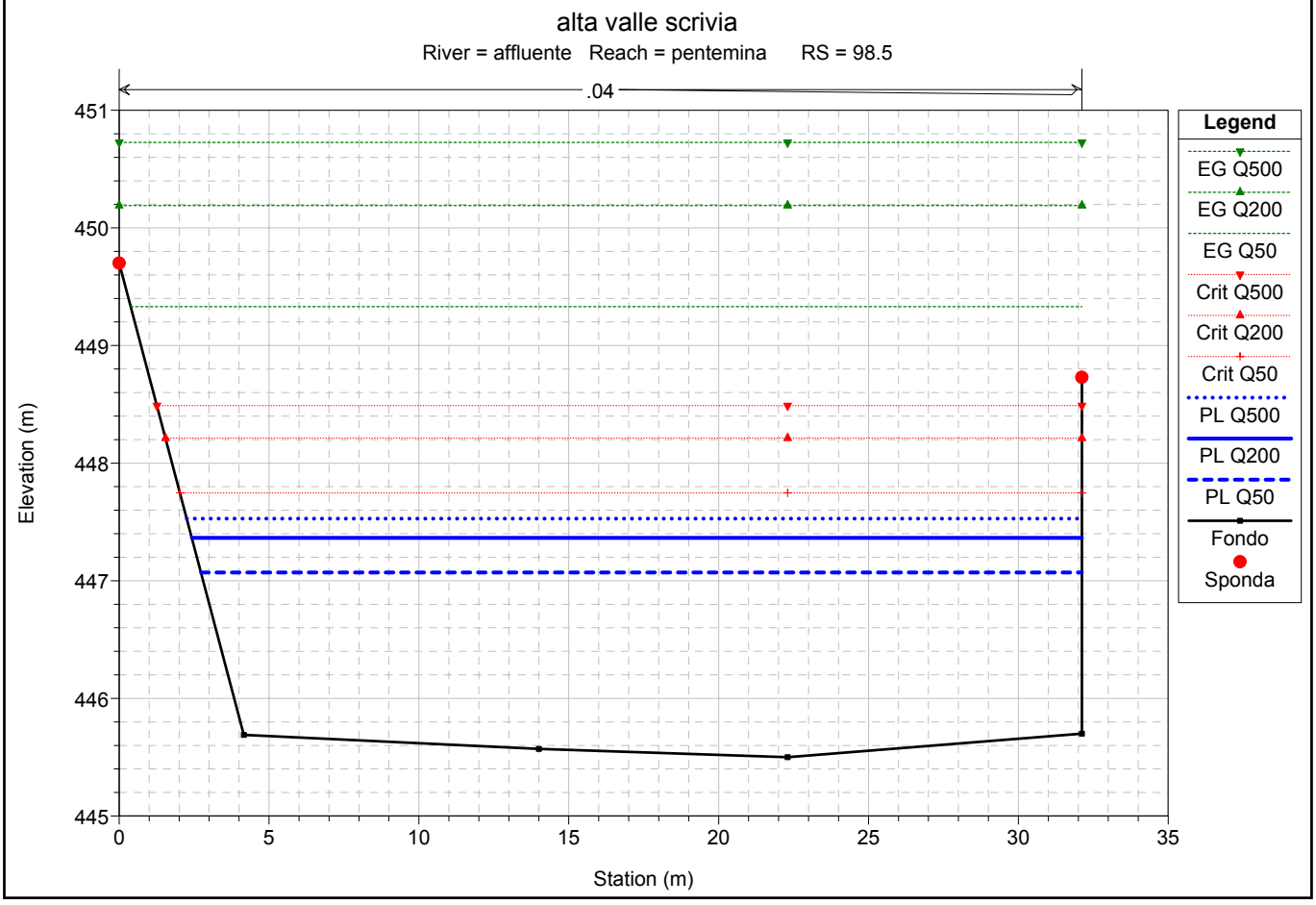
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PL Q200
PL Q50
Fondo
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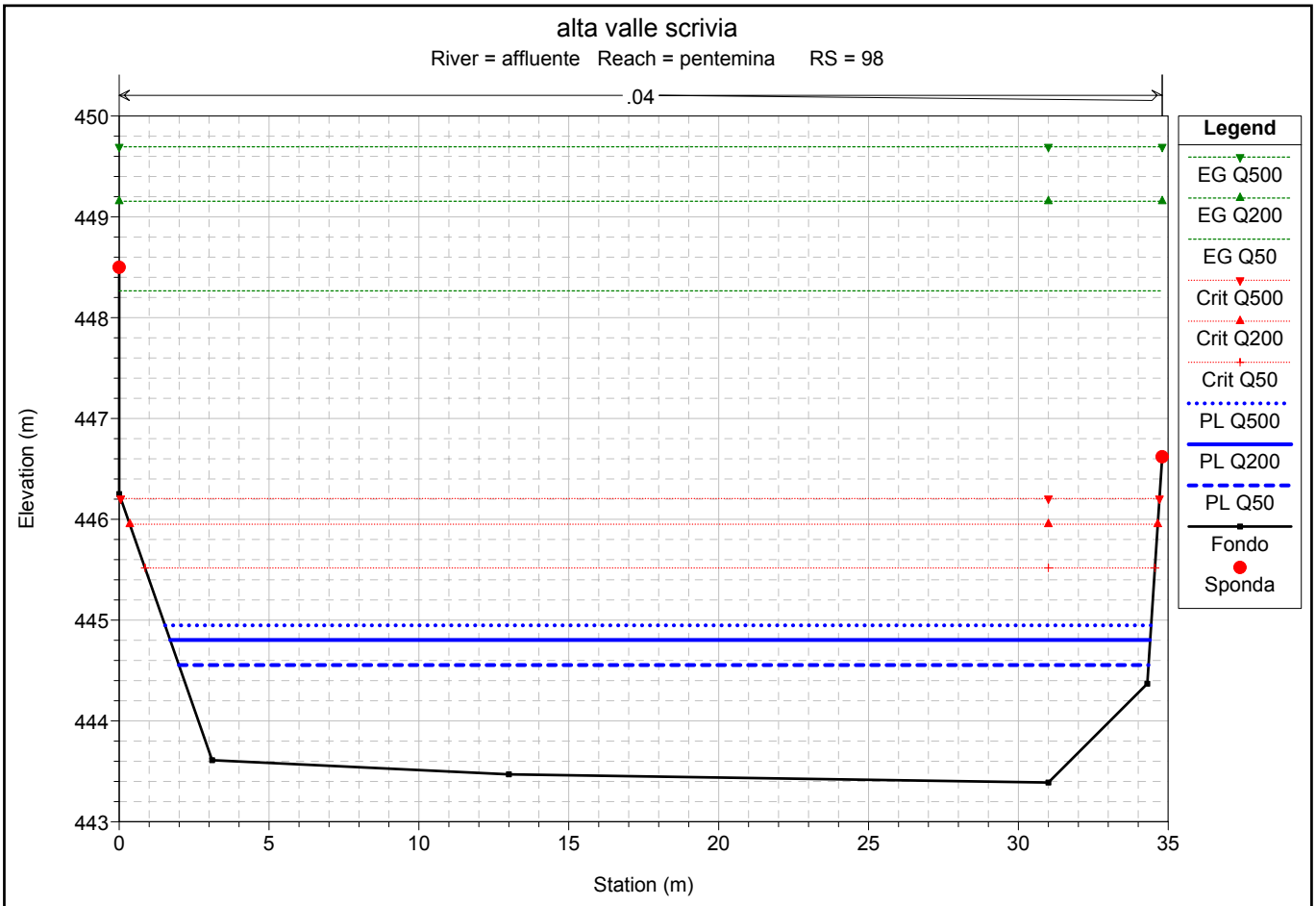
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Crit Q50
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PL Q200
PL Q50
Fondo
Sponda
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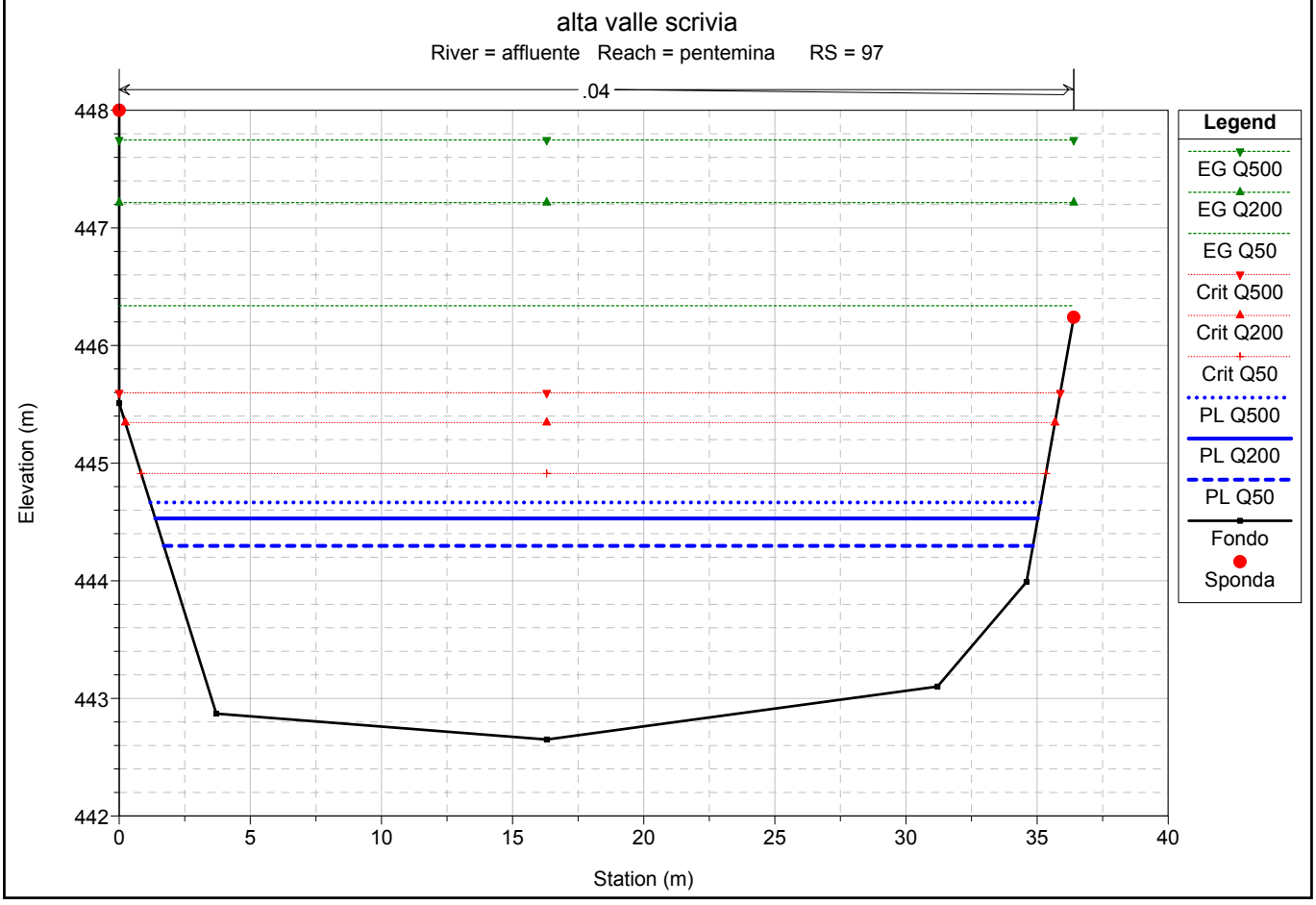
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PL Q200
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Fondo
Sponda
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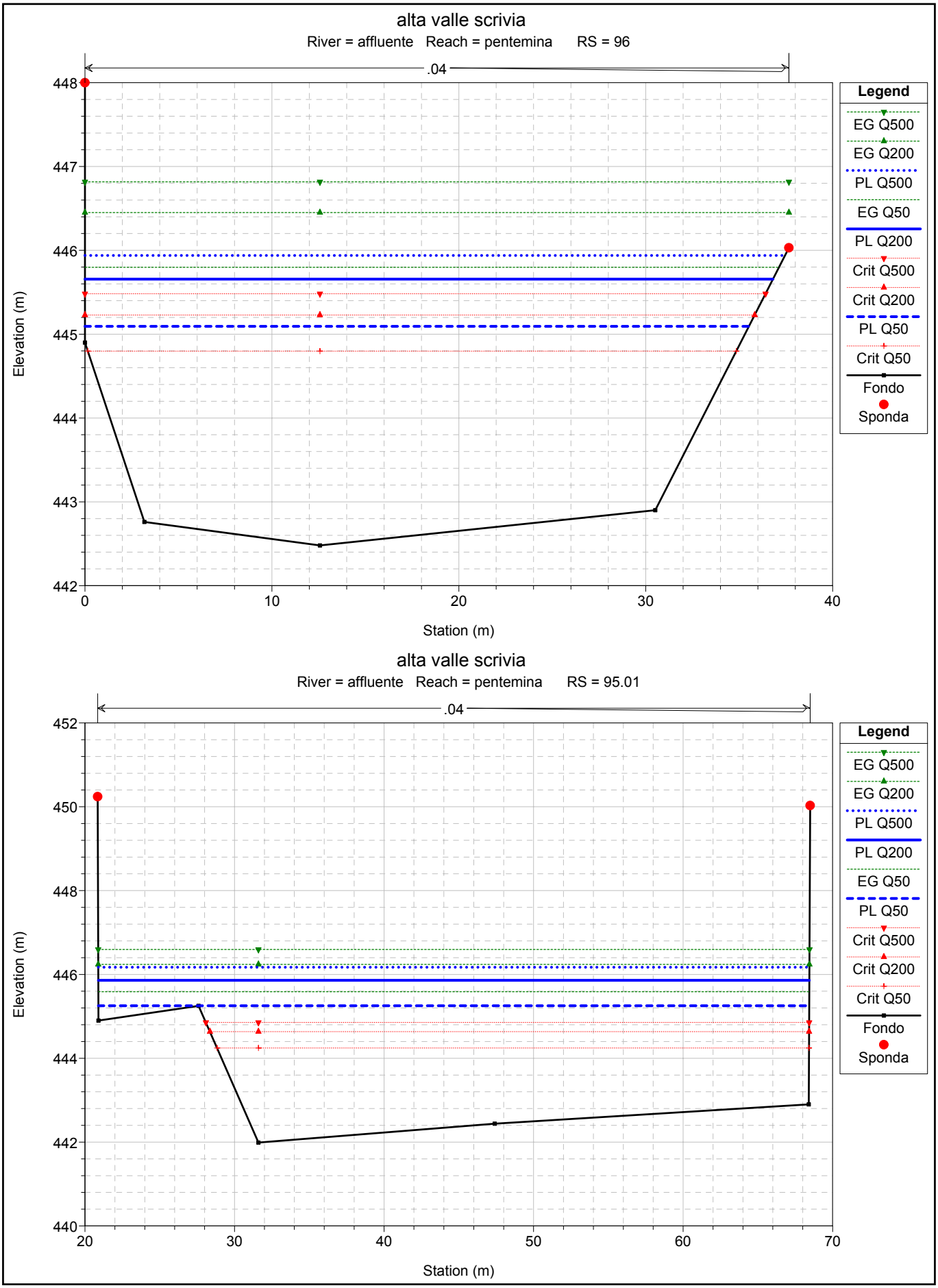
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Legend
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EG Q200
PL Q500
EG Q50
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Crit Q50
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Sponda
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Elevation (m)
Station (m)
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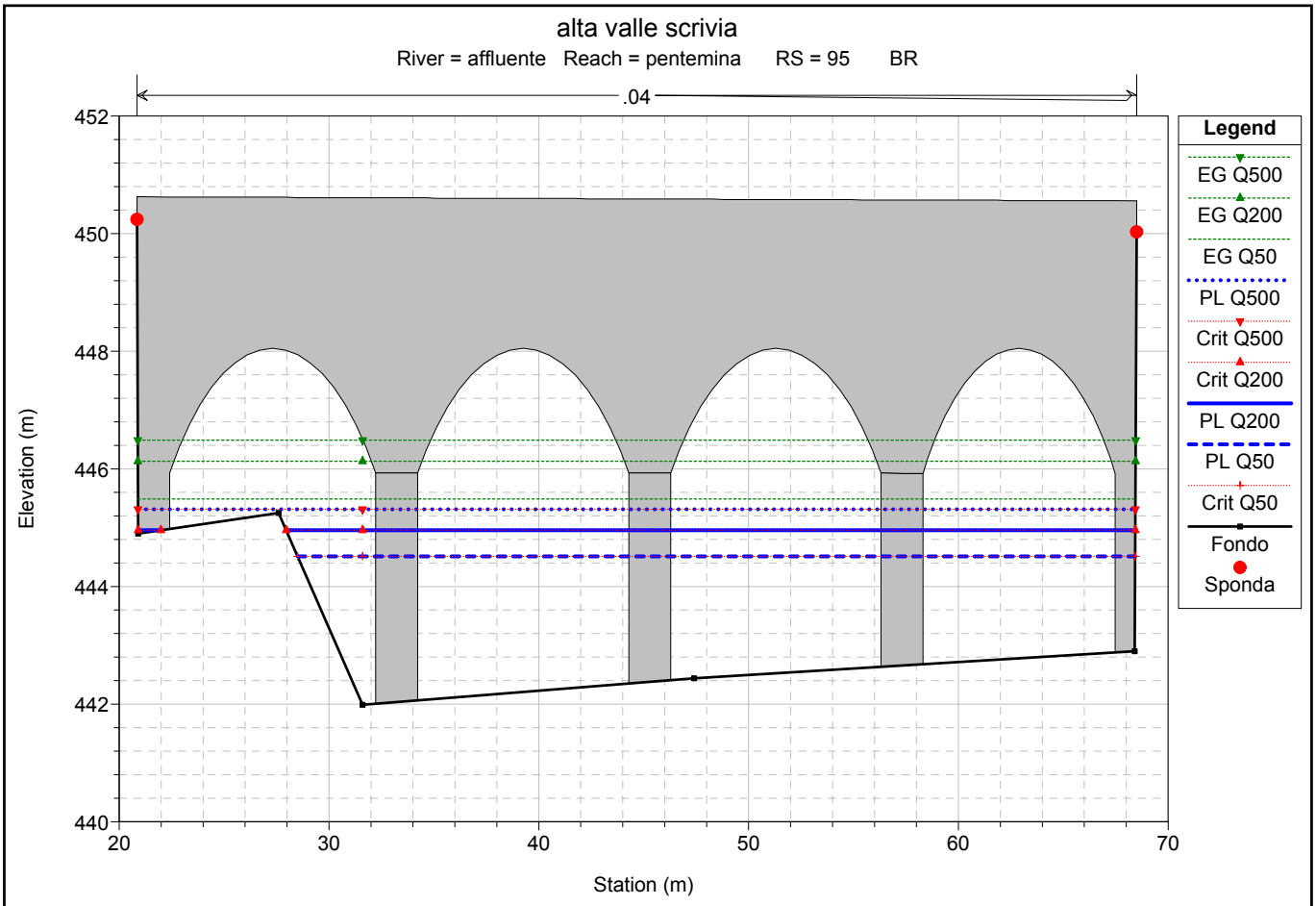
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EG Q50
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Crit Q200
PL Q200
PL Q50
Crit Q50
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Station (m)
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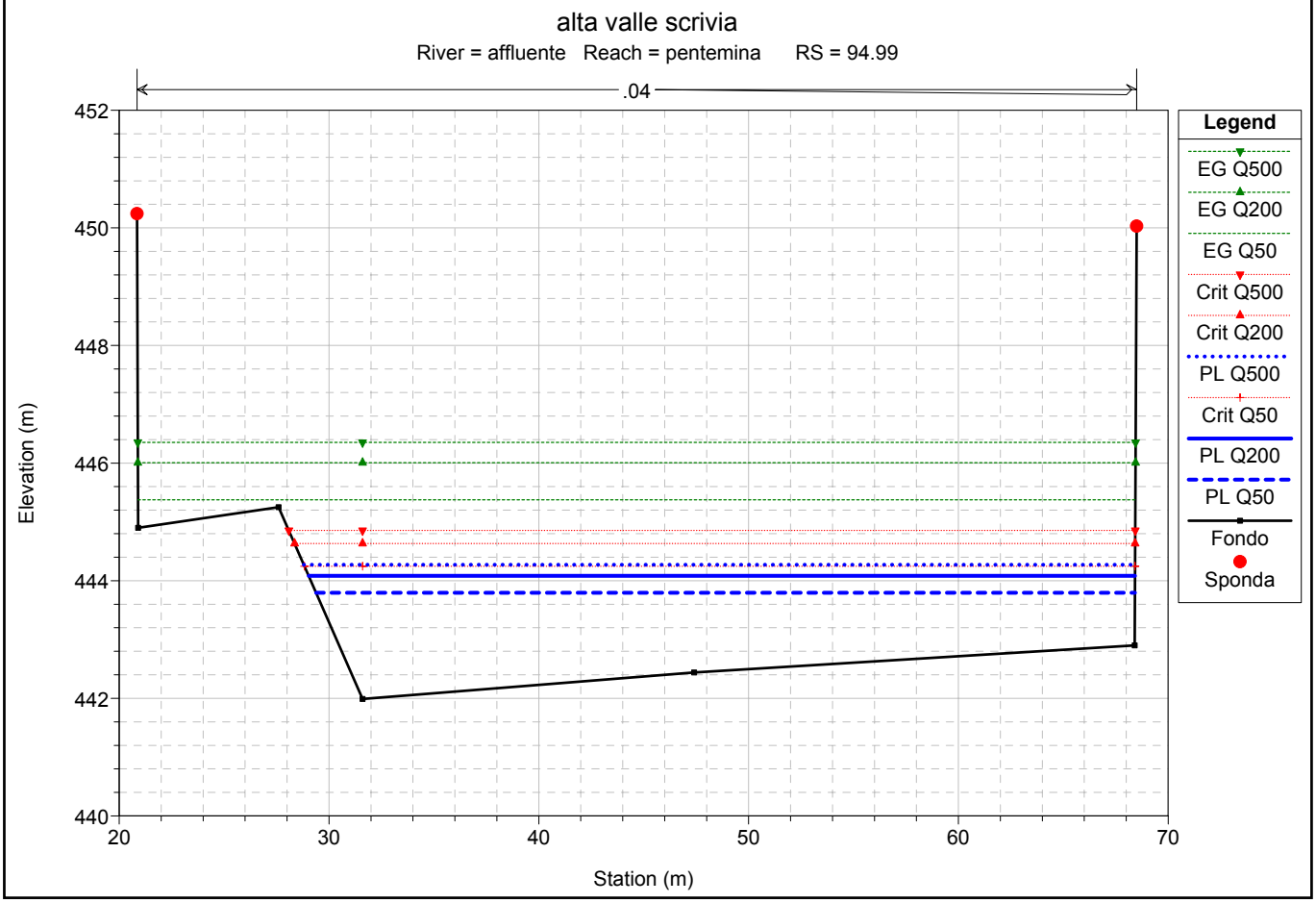
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EG Q50
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Crit Q50
PL Q200
PL Q50
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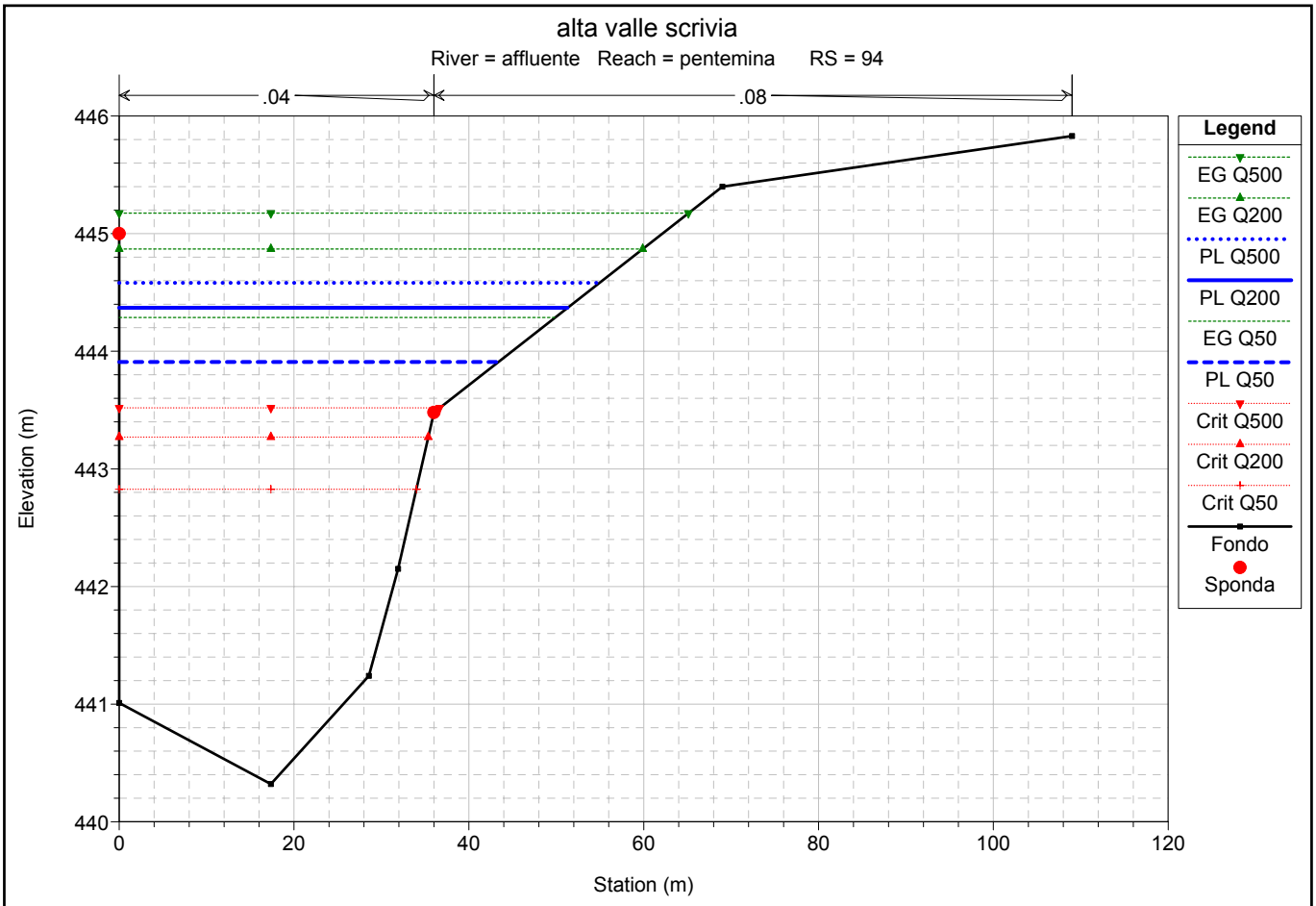
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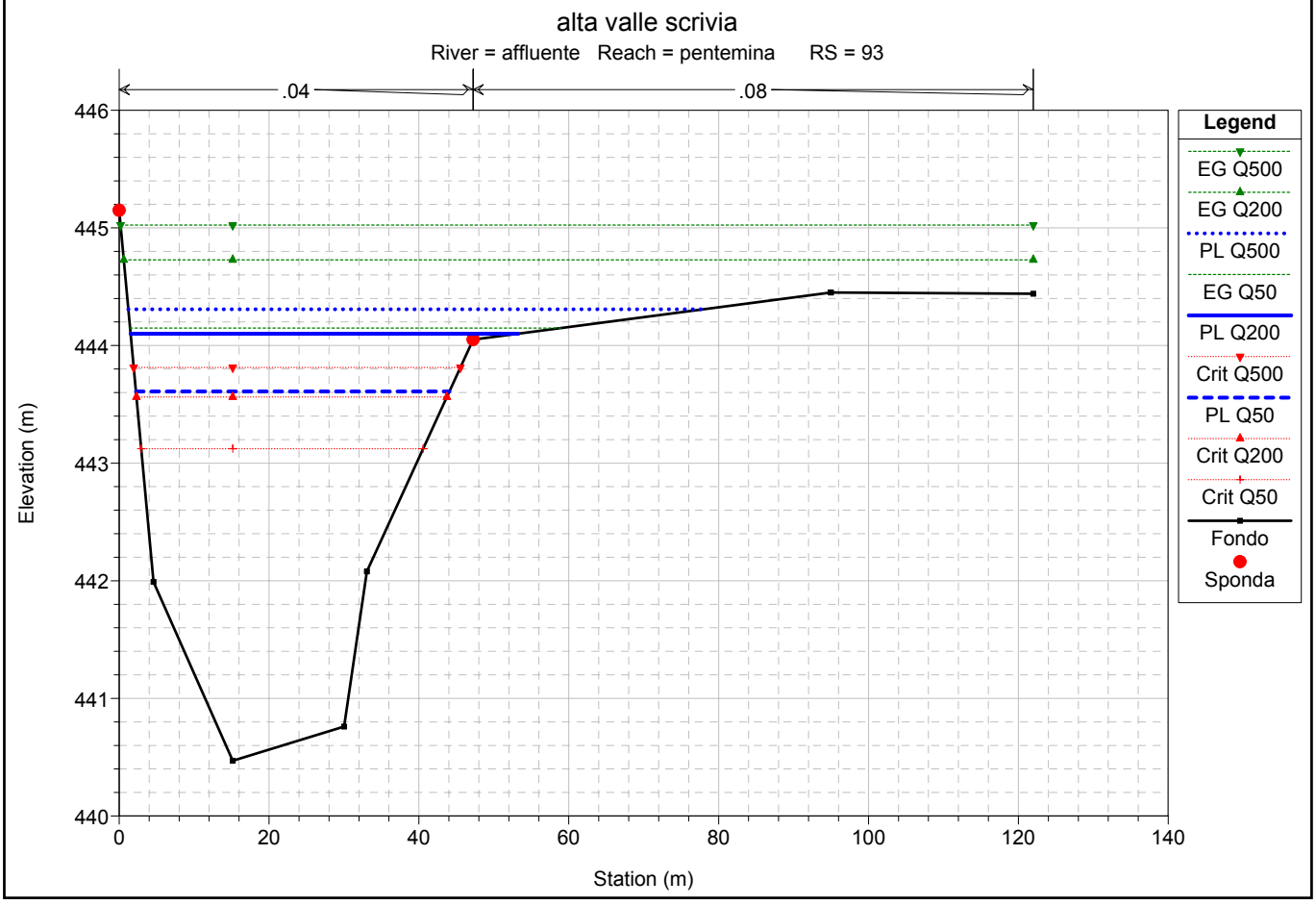
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Sponda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River = affluente Reach = pentemina RS = 93
.04
.08
Elevation (m)
Station (m)
Legend
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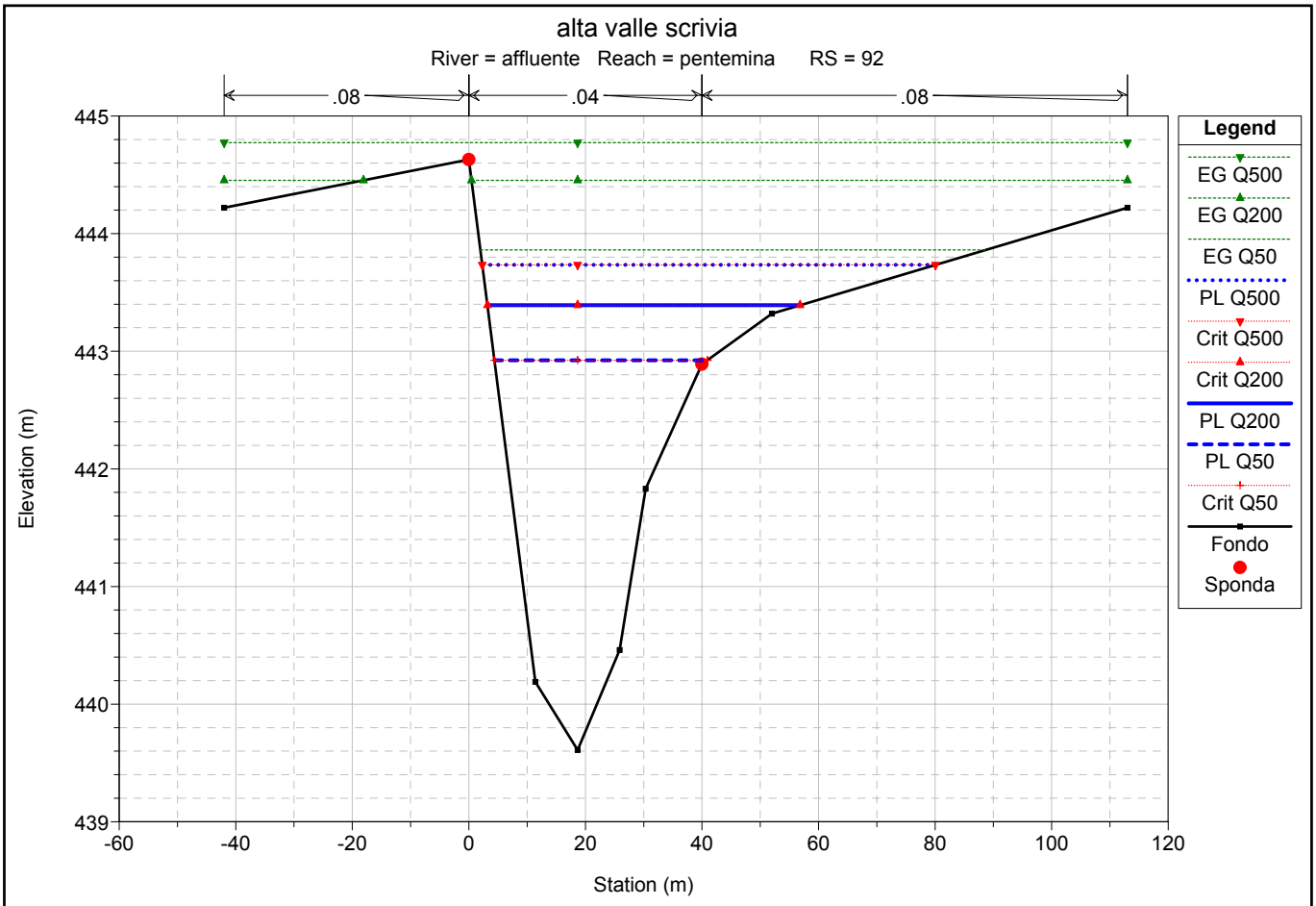
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Sponda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Legend
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EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Sponda
Elevation (m)
445
444
443
442
441
440
439
-60
-40
-20
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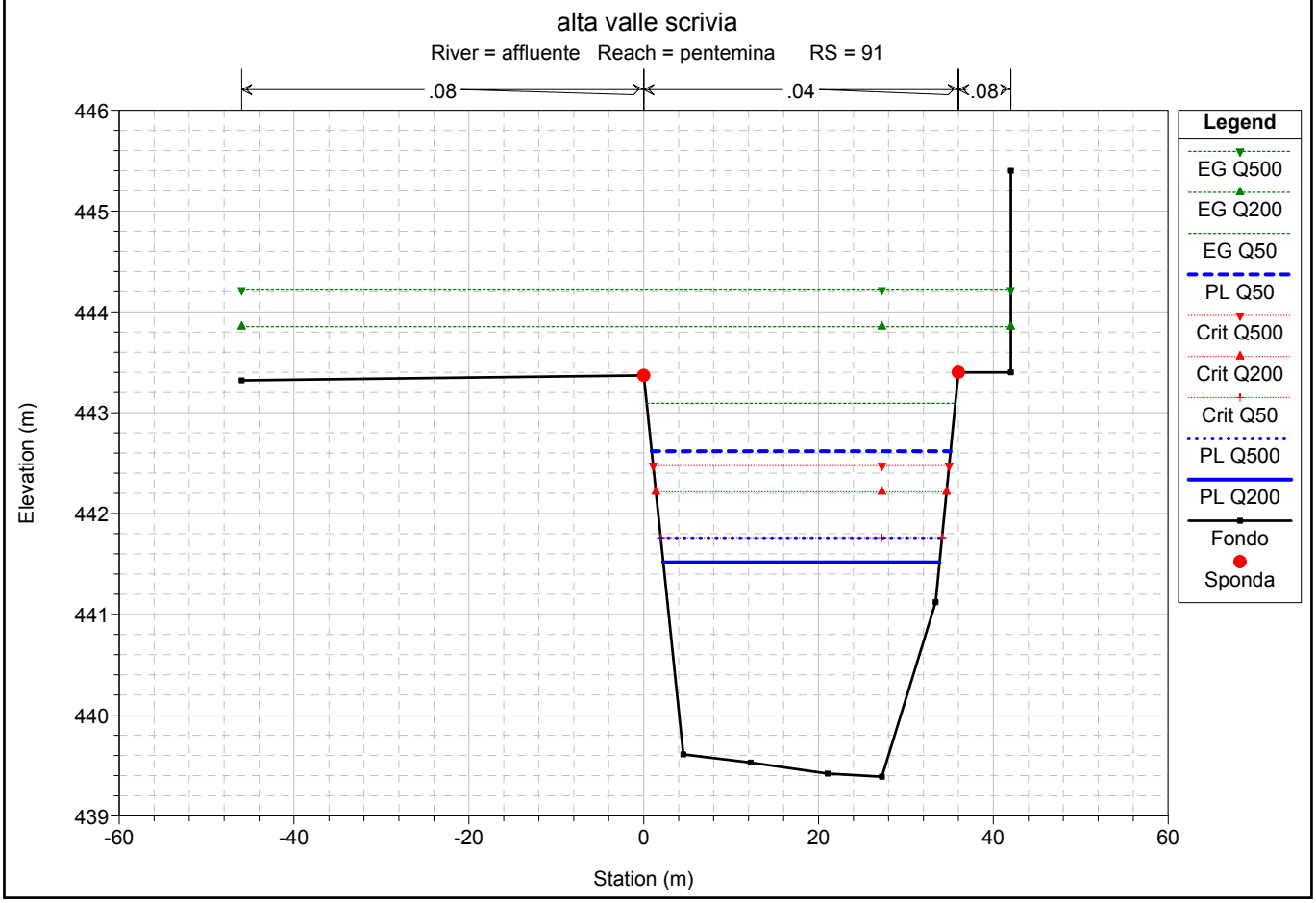
20
40
60
80
100
120
Station (m)


alta valle scrivia
River = affluente Reach = pentemina RS = 91
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.04
.08
Legend
EG Q500
EG Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
Fondo
Sponda
Elevation (m)
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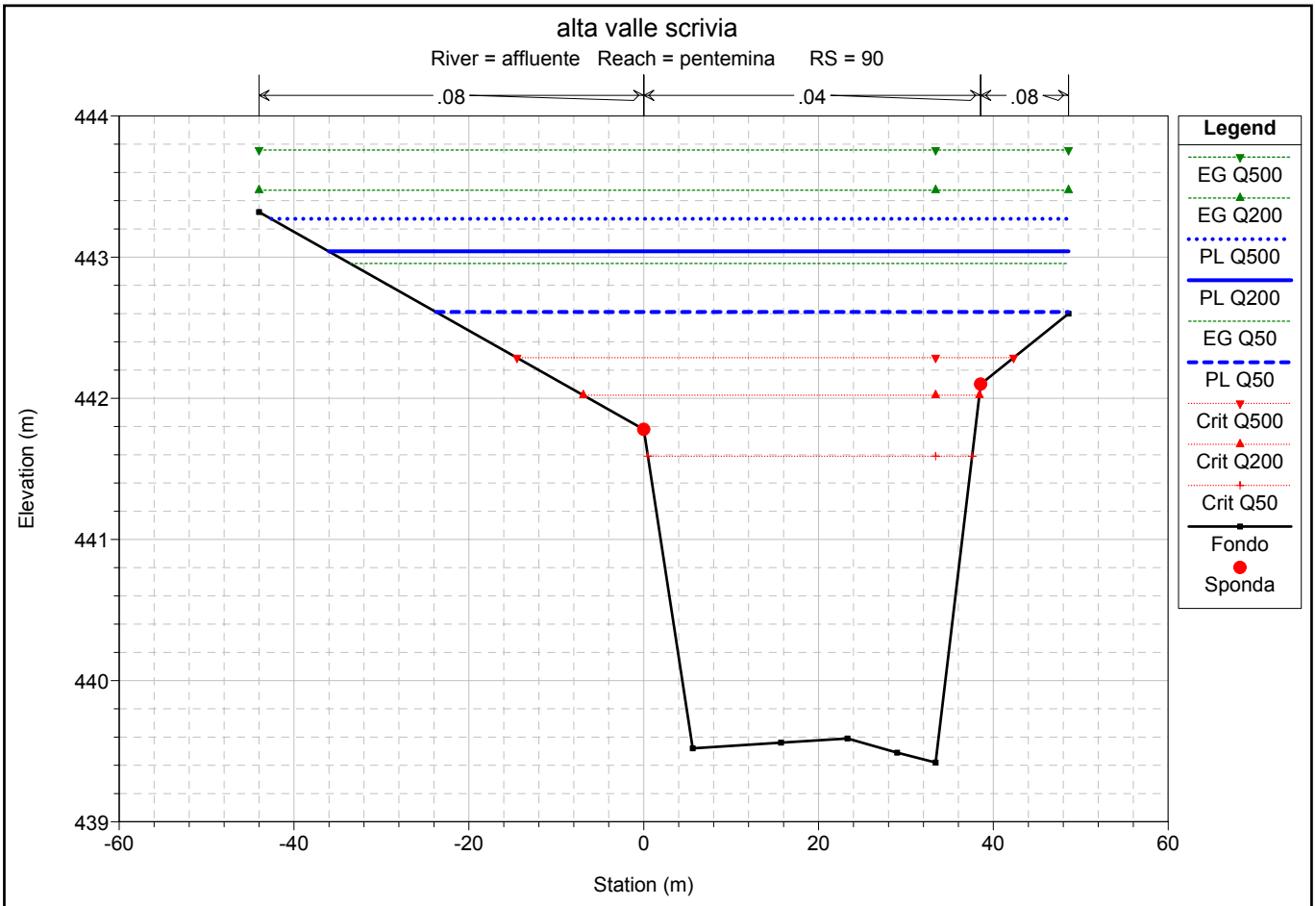
445
444
443
442
441
440
439
-60
-40
-20
0
20
40
60
Station (m)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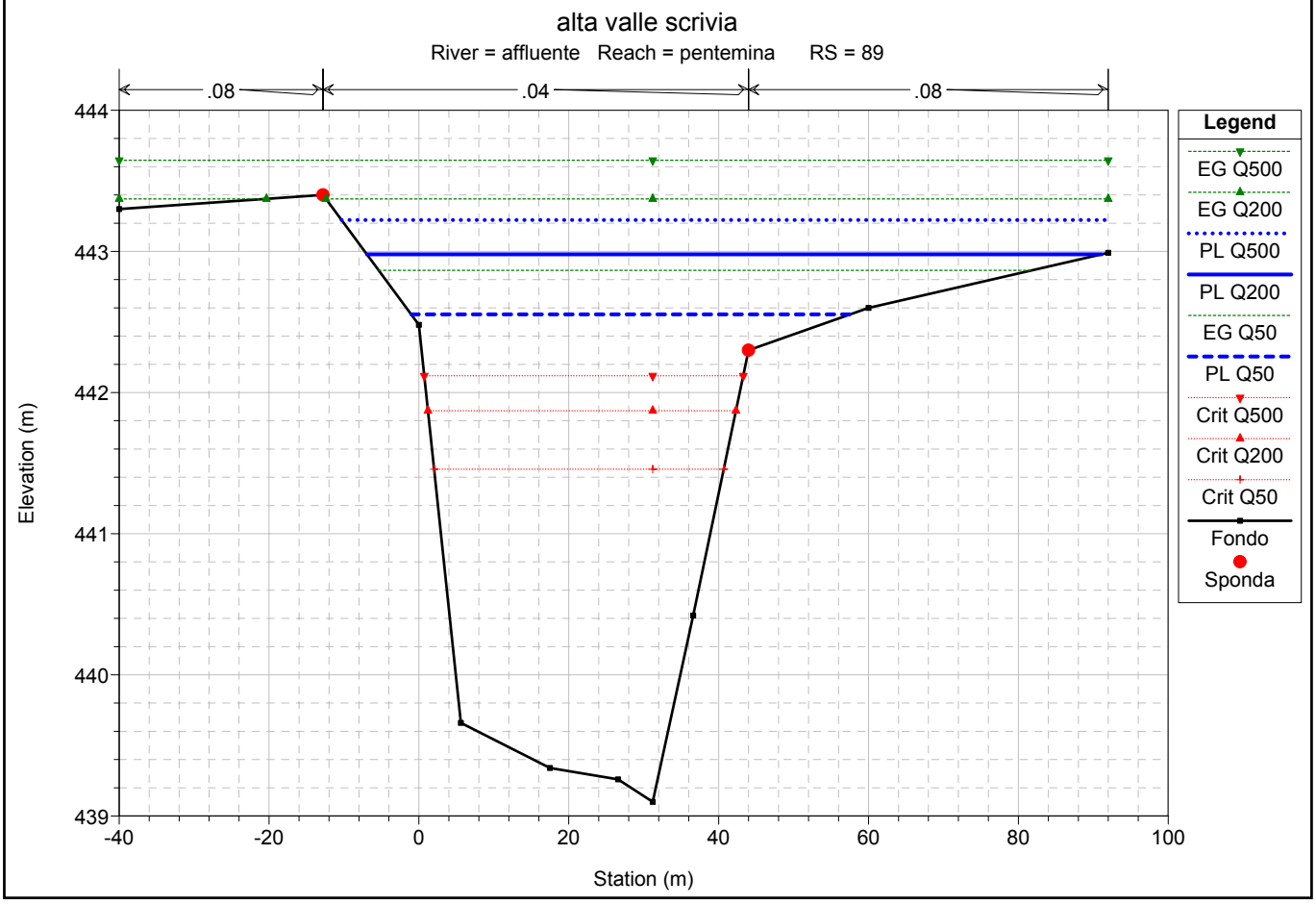
.04
.08
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Sponda
Elevation (m)
444
443
442
441
440
439
-60
-40
-20
0
20
40
60
Station (m)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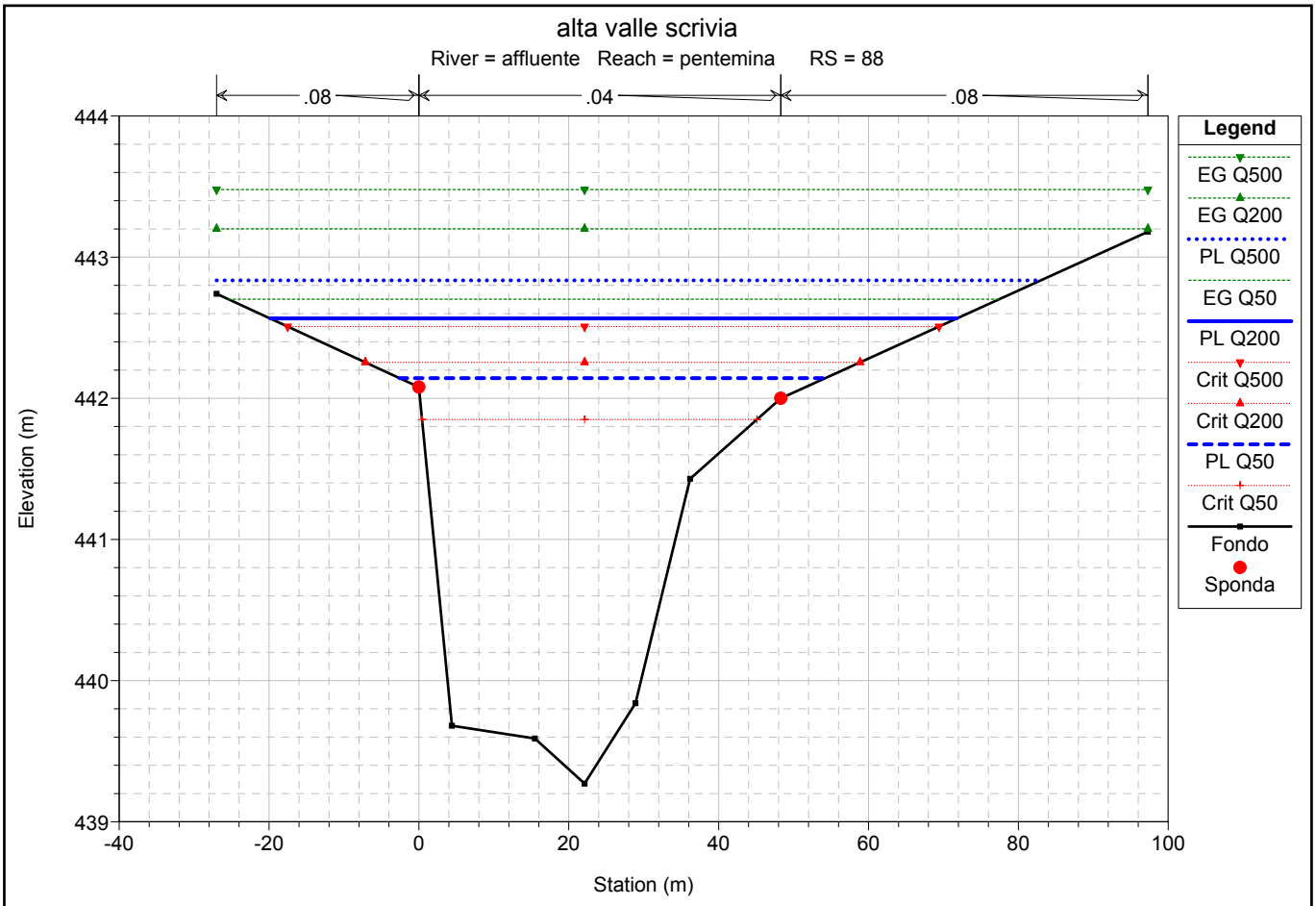
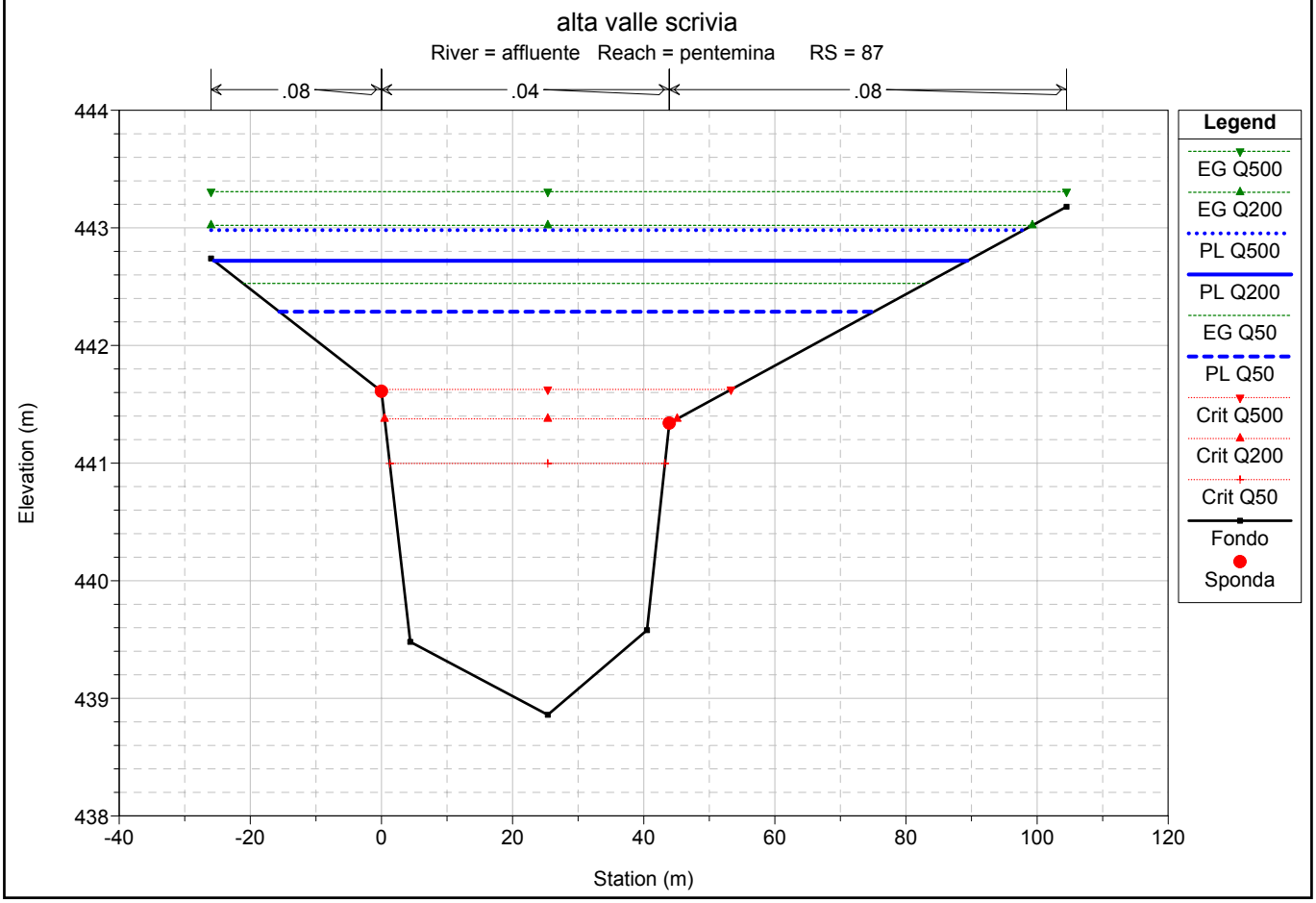
River = affluente Reach = pentemina RS = 89
.08
.04
.08
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Sponda
Elevation (m)
444
443
442
441
440
439
-40
-20
0
20
40
60
80
100
Station (m)


alta valle scrivia
River = affluente Reach = pentemina RS = 88
.08
.04
.08
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Sponda
Elevation (m)
444
443
442
441
440
439
-40
-20
0
20
40
60
80
100
Station (m)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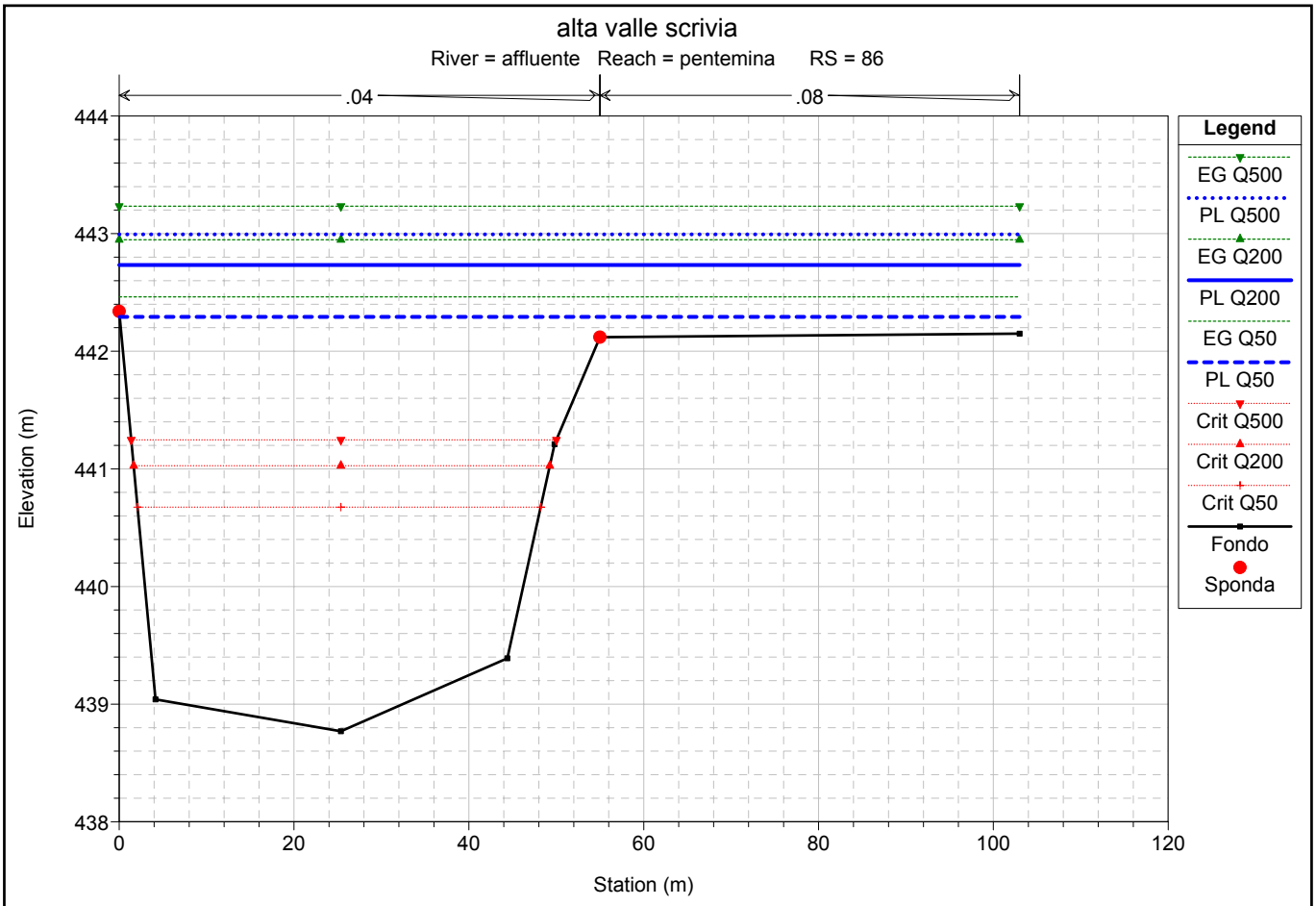
River = affluente Reach = pentemina RS = 87
.08
.04
.08
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Sponda
Elevation (m)
444
443
442
441
440
439
438
-40
-20
0
20
40
60
80
100
120
Station (m)


alta valle scrivia
River = affluente Reach = pentemina RS = 86
.04
.08
Elevation (m)
444
443
442
441
440
439
438
0
20
40
60
80
100
120
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Sponda

HEC-RAS Plan: 06_RevF River: affluente Reach: pentemina

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
pentemina	104	Q50	282.00	446.98	450.45	456.74	6.29	450.91	0.46	449.95	451.25	0.007335	3.95	71.47	26.48	0.77
pentemina	104	Q200	380.00	446.98	451.34	456.74	5.40	450.91	-0.43	450.57	452.08	0.006255	3.80	100.07	34.80	0.71
pentemina	104	Q500	443.00	446.98	451.89	456.74	4.85	450.91	-0.98	450.98	452.59	0.005038	3.71	119.27	35.93	0.65
pentemina	103	Q50	282.00	445.58	449.76	449.89	0.13	448.20	-1.56	448.80	450.42	0.005089	3.59	78.62	22.97	0.62
pentemina	103	Q200	380.00	445.58	450.59	449.89	-0.70	448.20	-2.39	449.36	451.36	0.004862	3.89	97.57	23.00	0.60
pentemina	103	Q500	443.00	445.58	451.11	449.89	-1.22	448.20	-2.91	449.68	451.94	0.004692	4.04	109.66	23.00	0.59
pentemina	102	Q50	282.00	445.39	449.59	449.70	0.11	448.01	-1.58	448.61	450.24	0.005010	3.57	79.03	22.98	0.61
pentemina	102	Q200	380.00	445.39	450.42	449.70	-0.72	448.01	-2.41	449.17	451.19	0.004766	3.87	98.23	23.00	0.60
pentemina	102	Q500	443.00	445.39	450.96	449.70	-1.26	448.01	-2.95	449.49	451.78	0.004589	4.01	110.50	23.00	0.58
pentemina	101	Q50	282.00	445.24	449.53	449.55	0.02	447.86	-1.67	448.46	450.15	0.004632	3.48	81.13	23.00	0.59
pentemina	101	Q200	380.00	445.24	450.37	449.55	-0.82	447.86	-2.51	449.02	451.10	0.004470	3.78	100.40	23.00	0.58
pentemina	101	Q500	443.00	445.24	450.90	449.55	-1.35	447.86	-3.04	449.34	451.69	0.004331	3.93	112.72	23.00	0.57
pentemina	100	Q50	282.00	445.41	449.56	449.38	-0.18	448.04	-1.51	448.36	450.04	0.003641	3.08	91.66	26.70	0.53
pentemina	100	Q200	380.00	445.41	450.42	449.38	-1.04	448.04	-2.38	448.86	450.98	0.003348	3.31	114.86	26.70	0.51
pentemina	100	Q500	443.00	445.41	450.98	449.38	-1.60	448.04	-2.94	449.15	451.57	0.003178	3.42	129.60	26.70	0.50
pentemina	99.9	Q50	282.00	445.41	449.15	449.38	0.23	449.03	-0.12	448.48	450.00	0.007348	4.08	69.16	20.95	0.72
pentemina	99.9	Q200	380.00	445.41	449.93	449.38	-0.55	449.03	-0.90	449.07	450.94	0.007122	4.45	85.42	21.00	0.70
pentemina	99.9	Q500	443.00	445.41	450.44	449.38	-1.06	449.03	-1.41	449.43	451.52	0.006829	4.60	96.23	21.00	0.69
pentemina	99.01	Q50	282.00	445.54	449.30	449.34	0.04	449.22	-0.08	448.28	449.85	0.004040	3.28	85.93	29.20	0.58
pentemina	99.01	Q200	380.00	445.54	450.13	449.34	-0.79	449.22	-0.91	448.78	450.76	0.003600	3.53	107.60	29.20	0.55
pentemina	99.01	Q500	443.00	445.54	450.67	449.34	-1.33	449.22	-1.45	449.08	451.35	0.003326	3.64	121.68	29.20	0.54
pentemina	99		Bridge													
pentemina	98.99	Q50	282.00	445.54	447.47	450.42	2.95	449.83	2.36	448.09	449.57	0.043088	6.43	43.89	28.95	1.67
pentemina	98.99	Q200	380.00	445.54	447.77	450.42	2.65	449.83	2.06	448.55	450.43	0.044012	7.23	52.55	28.98	1.71
pentemina	98.99	Q500	443.00	445.54	447.94	450.42	2.49	449.83	1.89	448.83	450.98	0.045343	7.73	57.33	28.99	1.75
pentemina	98.5	Q50	282.00	445.50	447.07	449.70	2.63	448.73	1.66	447.75	449.33	0.047496	6.66	42.34	29.39	1.77
pentemina	98.5	Q200	380.00	445.50	447.36	449.70	2.34	448.73	1.37	448.21	450.19	0.047705	7.45	51.03	29.70	1.81
pentemina	98.5	Q500	443.00	445.50	447.53	449.70	2.17	448.73	1.20	448.49	450.73	0.048600	7.92	55.91	29.87	1.85
pentemina	98	Q50	282.00	443.39	444.55	448.50	3.95	446.62	2.07	445.52	448.27	0.116340	8.54	33.04	32.35	2.70
pentemina	98	Q200	380.00	443.39	444.80	448.50	3.70	446.62	1.82	445.95	449.15	0.104501	9.24	41.12	32.70	2.63
pentemina	98	Q500	443.00	443.39	444.95	448.50	3.55	446.62	1.67	446.21	449.70	0.099925	9.65	45.90	32.90	2.61
pentemina	97	Q50	282.00	442.65	444.30	448.00	3.70	446.24	1.94	444.91	446.34	0.044492	6.33	44.55	33.14	1.74

HEC-RAS Plan: 06_RevF River: affluente Reach: pentemina (Continued)

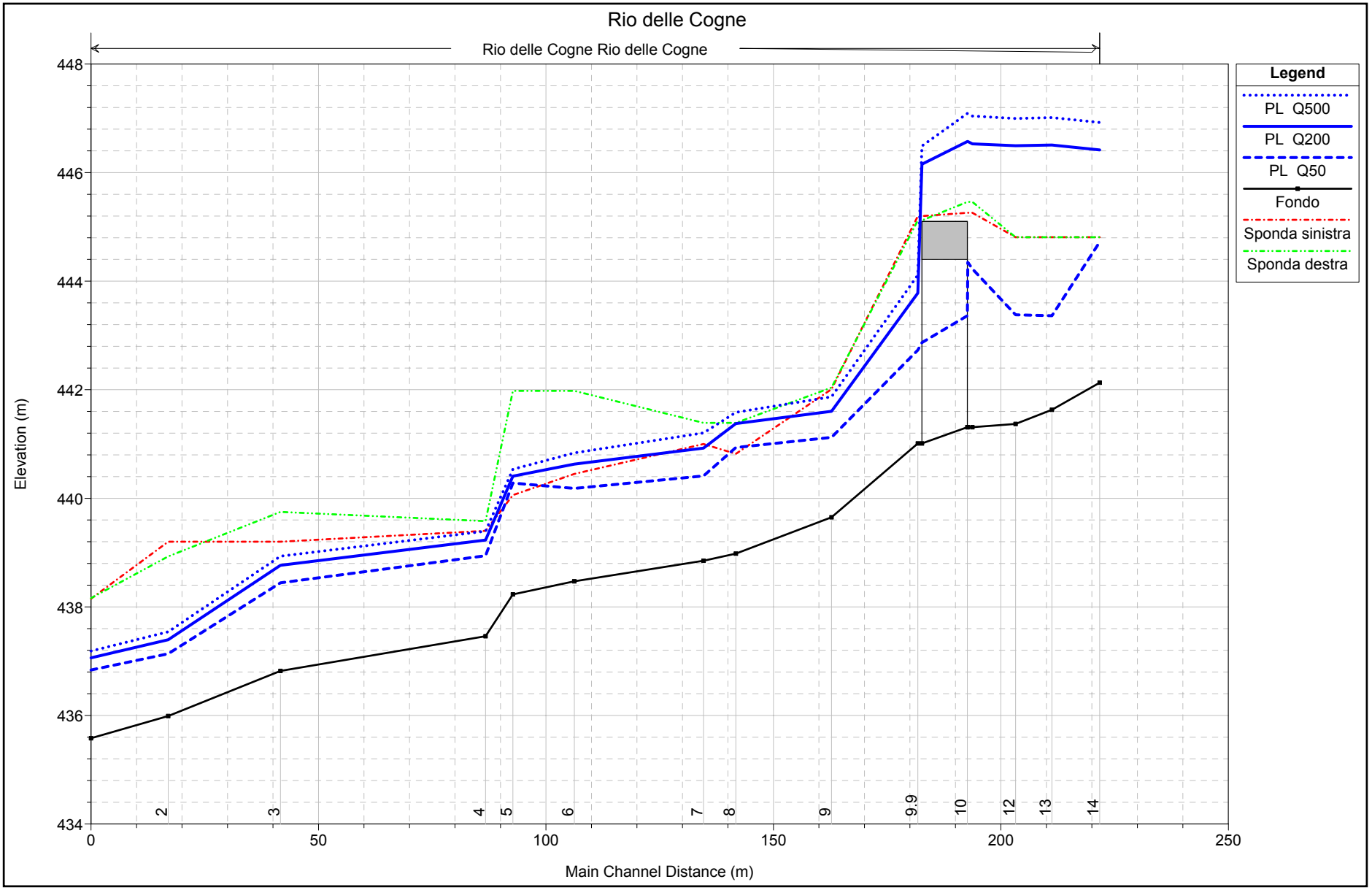
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
pentemina	97	Q200	380.00	442.65	444.53	448.00	3.47	446.24	1.71	445.34	447.21	0.048505	7.26	52.34	33.66	1.86
pentemina	97	Q500	443.00	442.65	444.67	448.00	3.33	446.24	1.57	445.60	447.75	0.050510	7.78	56.96	33.96	1.92
pentemina	96	Q50	282.00	442.48	445.09	448.00	2.91	446.03	0.94	444.80	445.80	0.008444	3.72	75.84	35.52	0.81
pentemina	96	Q200	380.00	442.48	445.66	448.00	2.34	446.03	0.37	445.23	446.45	0.007438	3.95	96.21	36.81	0.78
pentemina	96	Q500	443.00	442.48	445.94	448.00	2.06	446.03	0.09	445.48	446.82	0.007402	4.15	106.70	37.45	0.79
pentemina	95.01	Q50	282.00	441.99	445.25	450.24	4.99	450.03	4.78	444.25	445.59	0.003806	2.56	110.05	47.54	0.54
pentemina	95.01	Q200	380.00	441.99	445.86	450.24	4.38	450.03	4.17	444.63	446.24	0.003287	2.74	138.82	47.55	0.51
pentemina	95.01	Q500	443.00	441.99	446.17	450.24	4.07	450.03	3.86	444.86	446.60	0.003232	2.88	153.70	47.56	0.51
pentemina	95		Bridge													
pentemina	94.99	Q50	282.00	441.99	443.80	450.24	6.44	450.03	6.23	444.25	445.38	0.036982	5.57	50.61	39.03	1.56
pentemina	94.99	Q200	380.00	441.99	444.08	450.24	6.16	450.03	5.95	444.63	446.01	0.035286	6.15	61.83	39.38	1.57
pentemina	94.99	Q500	443.00	441.99	444.27	450.24	5.97	450.03	5.76	444.86	446.35	0.033269	6.39	69.33	39.62	1.54
pentemina	94	Q50	282.00	440.32	443.91	445.00	1.09	443.48	-0.43	442.83	444.29	0.003281	2.73	104.83	43.37	0.51
pentemina	94	Q200	380.00	440.32	444.37	445.00	0.63	443.48	-0.89	443.27	444.87	0.003638	3.15	126.61	51.28	0.55
pentemina	94	Q500	443.00	440.32	444.58	445.00	0.42	443.48	-1.10	443.52	445.17	0.004014	3.43	137.87	54.93	0.58
pentemina	93	Q50	282.00	440.47	443.61	445.15	1.54	444.05	0.44	443.12	444.15	0.006630	3.26	86.63	41.84	0.72
pentemina	93	Q200	380.00	440.47	444.10	445.15	1.05	444.05	-0.05	443.56	444.73	0.006470	3.51	108.38	51.75	0.73
pentemina	93	Q500	443.00	440.47	444.31	445.15	0.84	444.05	-0.26	443.81	445.02	0.006677	3.75	121.72	76.83	0.75
pentemina	92	Q50	282.00	439.61	442.92	444.63	1.71	442.89	-0.03	442.92	443.86	0.013441	4.29	65.72	36.55	1.01
pentemina	92	Q200	380.00	439.61	443.39	444.63	1.24	442.89	-0.50	443.39	444.45	0.011793	4.58	86.25	53.64	0.98
pentemina	92	Q500	443.00	439.61	443.73	444.63	0.90	442.89	-0.84	443.73	444.77	0.009983	4.56	108.77	77.76	0.91
pentemina	91	Q50	282.00	439.39	442.62	443.37	0.75	443.40	0.78	441.76	443.09	0.004256	3.05	92.40	34.20	0.59
pentemina	91	Q200	380.00	439.39	441.52	443.37	1.85	443.40	1.88	442.22	443.85	0.035745	6.77	56.10	31.62	1.62
pentemina	91	Q500	443.00	439.39	441.75	443.37	1.62	443.40	1.65	442.47	444.22	0.032732	6.95	63.71	32.18	1.58
pentemina	90	Q50	282.00	439.42	442.61	441.78	-0.83	442.10	-0.51	441.59	442.96	0.002955	2.62	118.52	72.36	0.50
pentemina	90	Q200	380.00	439.42	443.04	441.78	-1.26	442.10	-0.94	442.02	443.47	0.003144	2.97	152.22	84.63	0.53
pentemina	90	Q500	443.00	439.42	443.27	441.78	-1.49	442.10	-1.17	442.29	443.76	0.003279	3.18	172.45	91.20	0.55
pentemina	89	Q50	282.00	439.10	442.55	443.40	0.85	442.30	-0.25	441.46	442.87	0.002941	2.48	115.51	58.60	0.50
pentemina	89	Q200	380.00	439.10	442.98	443.40	0.42	442.30	-0.68	441.87	443.37	0.003539	2.80	148.50	98.03	0.55
pentemina	89	Q500	443.00	439.10	443.22	443.40	0.18	442.30	-0.92	442.12	443.65	0.003729	2.92	173.01	102.33	0.57
pentemina	88	Q50	282.00	439.27	442.14	442.08	-0.06	442.00	-0.14	441.85	442.70	0.008439	3.31	85.61	56.84	0.80
pentemina	88	Q200	380.00	439.27	442.57	442.08	-0.49	442.00	-0.57	442.25	443.20	0.007294	3.55	116.97	91.65	0.77

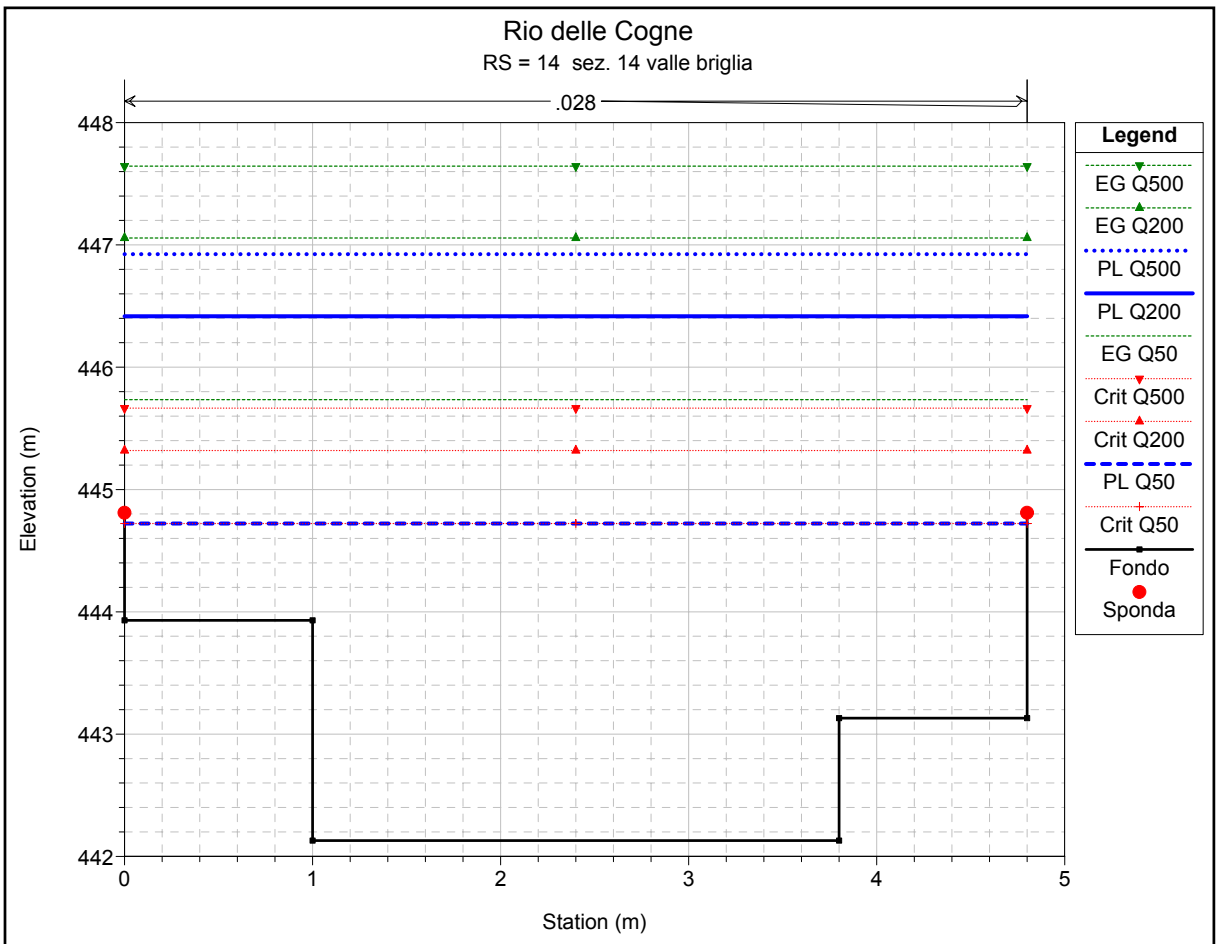
HEC-RAS Plan: 06_RevF River: affluente Reach: pentemina (Continued)

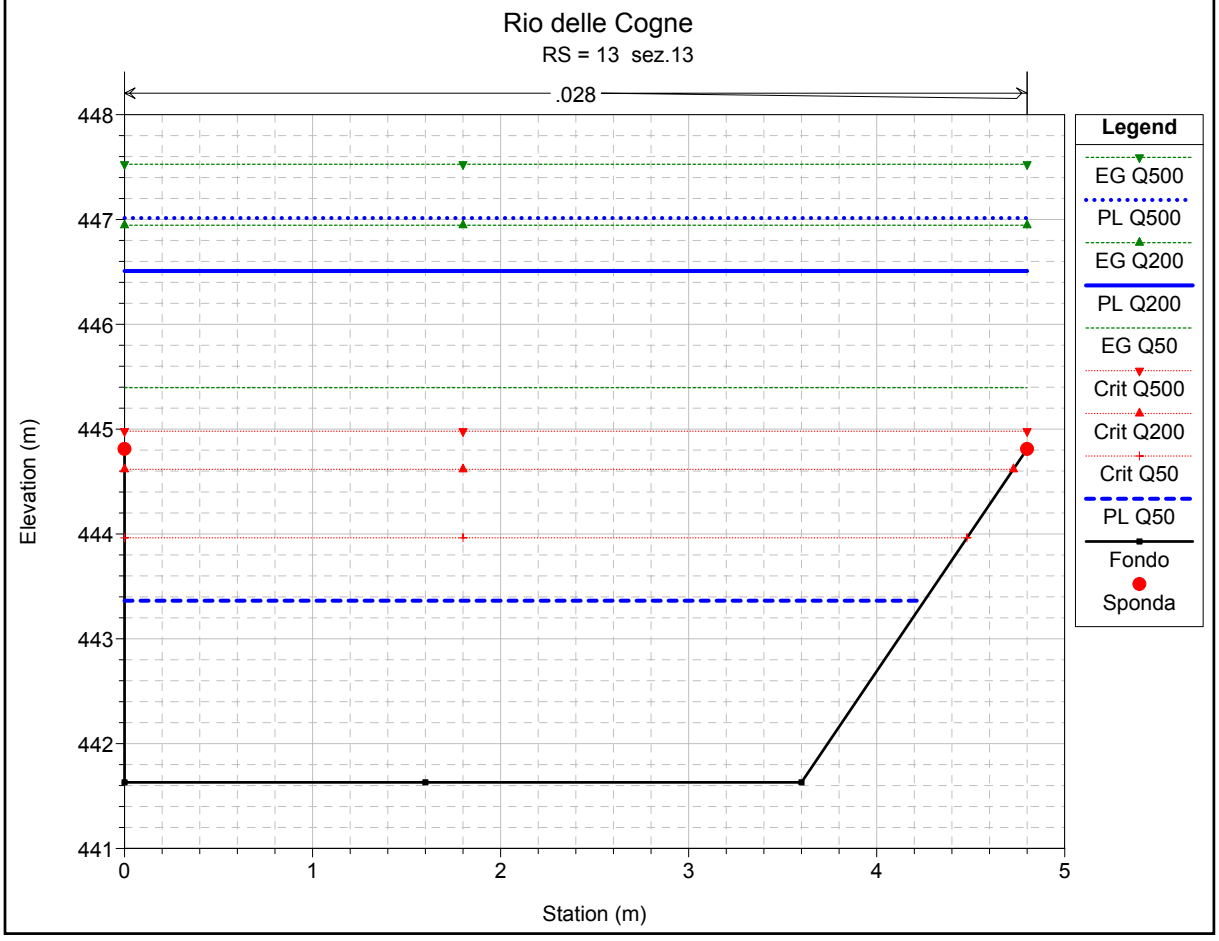
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
pentemina	88	Q500	443.00	439.27	442.83	442.08	-0.75	442.00	-0.83	442.51	443.48	0.006463	3.61	144.45	109.96	0.74
pentemina	87	Q50	282.00	438.86	442.29	441.61	-0.68	441.34	-0.95	441.00	442.53	0.001947	2.19	145.75	90.70	0.41
pentemina	87	Q200	380.00	438.86	442.72	441.61	-1.11	441.34	-1.38	441.38	443.02	0.002084	2.49	190.28	114.93	0.44
pentemina	87	Q500	443.00	438.86	442.98	441.61	-1.37	441.34	-1.64	441.63	443.31	0.002097	2.63	221.36	123.93	0.45
pentemina	86	Q50	282.00	438.77	442.29	442.34	0.05	442.12	-0.17	440.67	442.46	0.001408	1.83	161.21	102.94	0.35
pentemina	86	Q200	380.00	438.77	442.73	442.34	-0.39	442.12	-0.61	441.03	442.95	0.001516	2.08	206.61	103.00	0.37
pentemina	86	Q500	443.00	438.77	442.99	442.34	-0.65	442.12	-0.87	441.25	443.23	0.001552	2.21	233.49	103.00	0.38

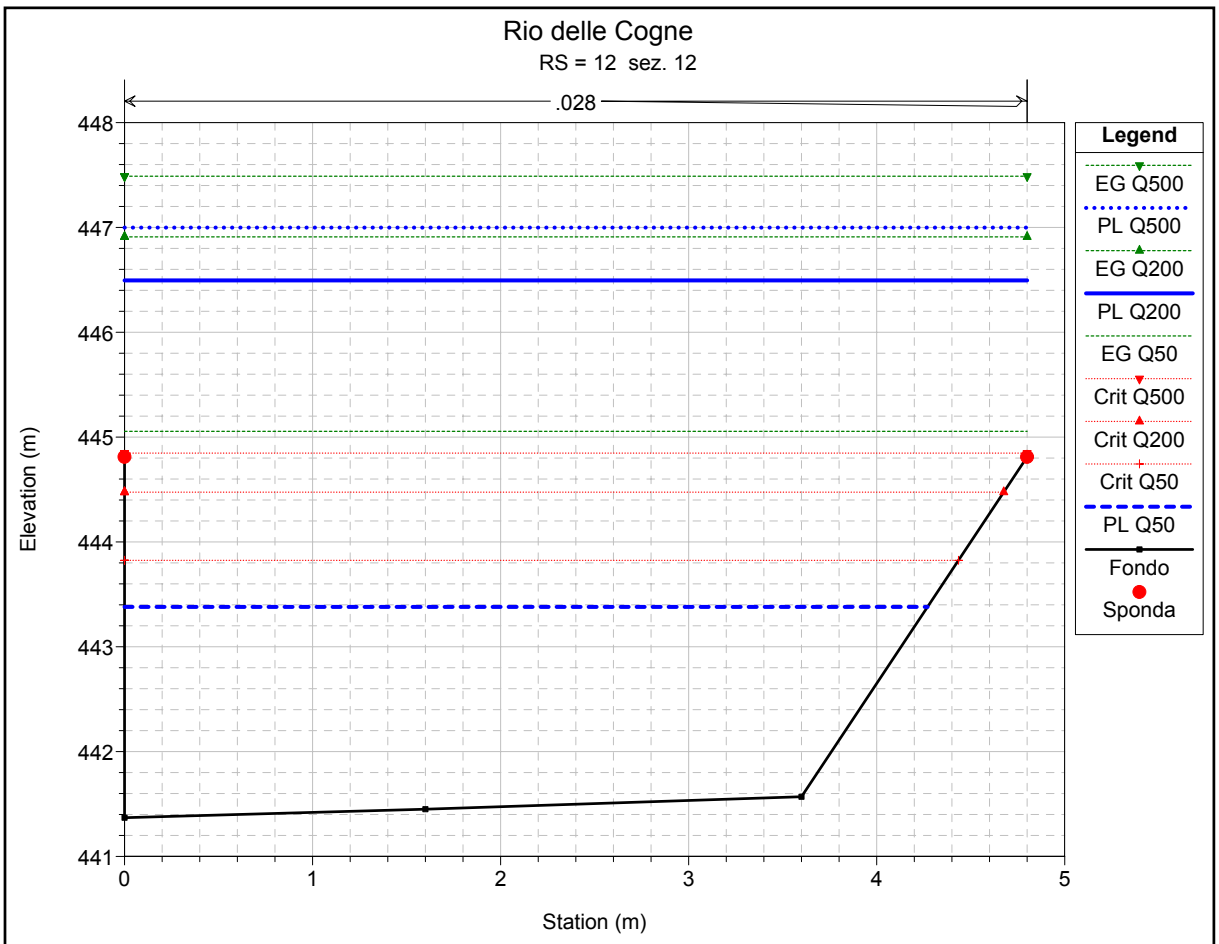
Rio delle Cogne

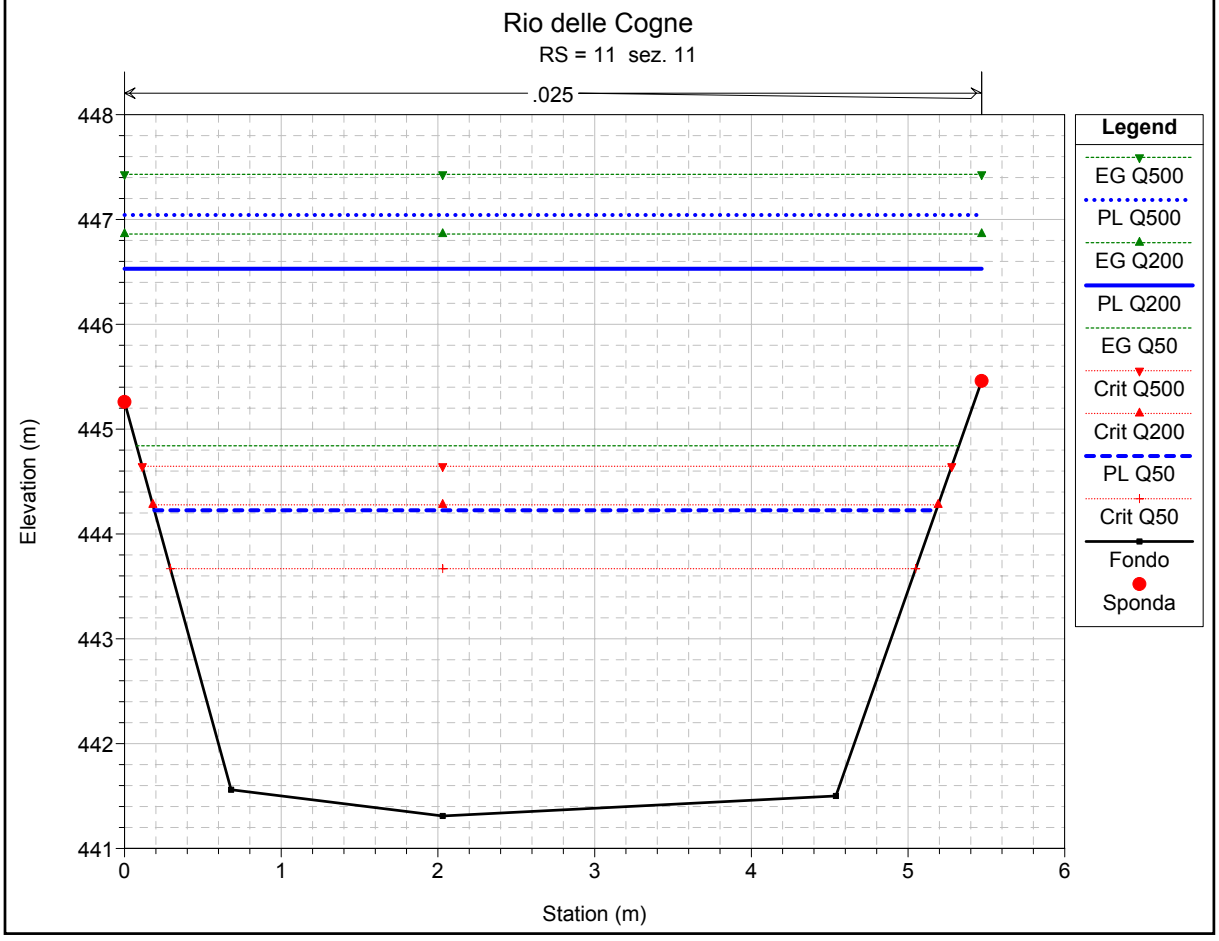
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

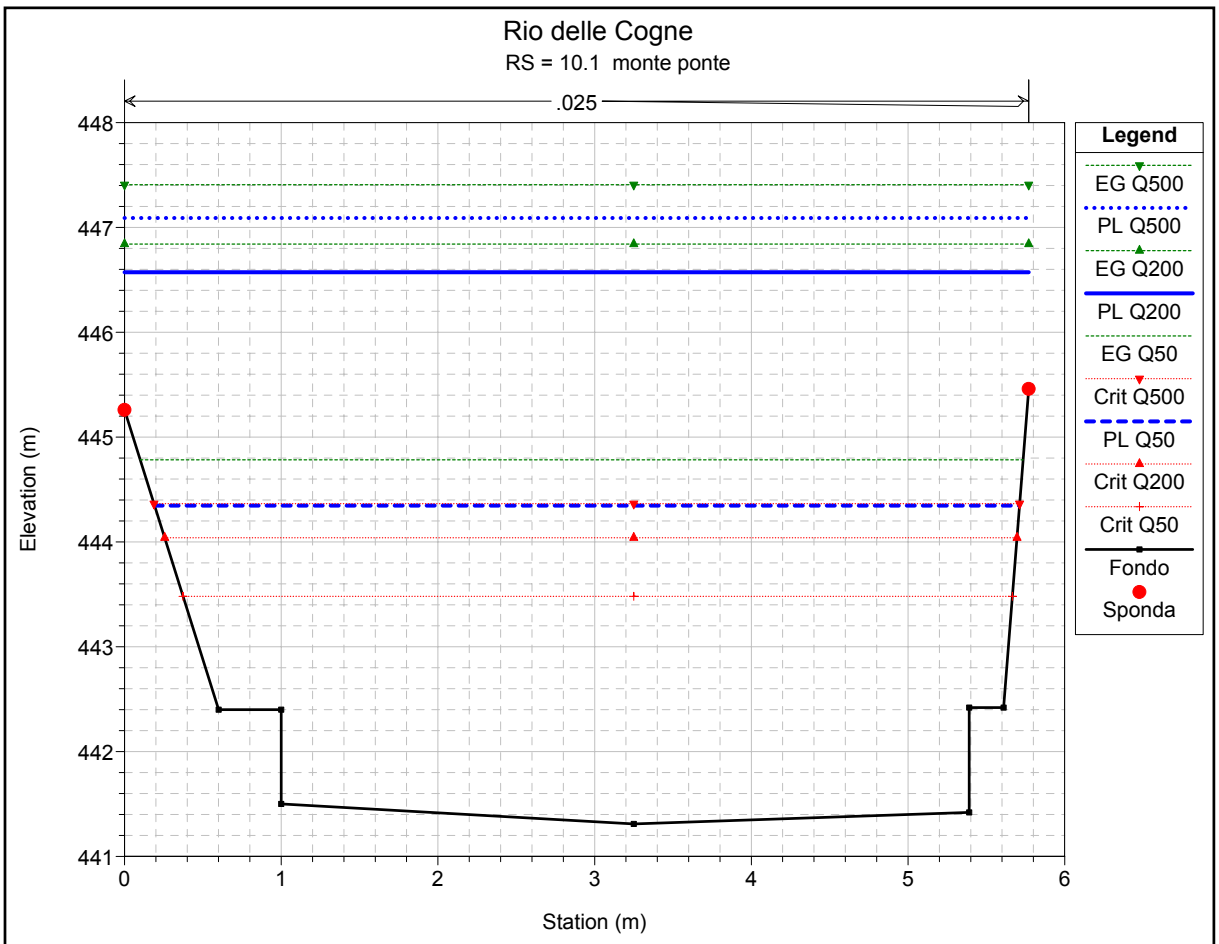

Rio delle Cogne
Rio delle Cogne Rio delle Cogne
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sinistra
Sponda destra
Elevation (m)
448
446
444
442
440
438
436
434
0
50
100
150
200
250
Main Channel Distance (m)
2
3
4
5
6
7
8
9
9.9
10
12
13
14

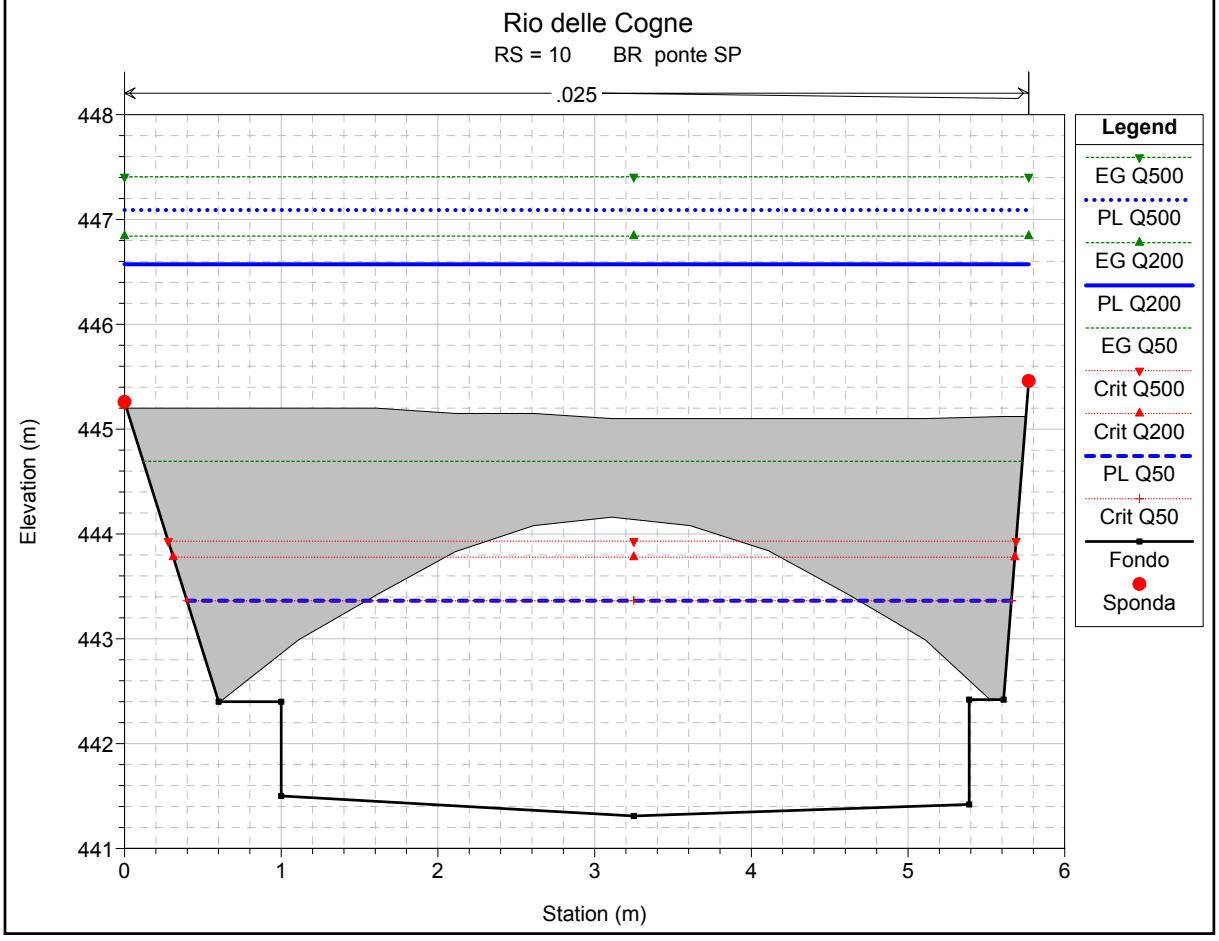

Rio delle Cogne
RS = 14 sez. 14 valle briglia
.028
Elevation (m)
448
447
446
445
444
443
442
0
1
2
3
4
5
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Sponda

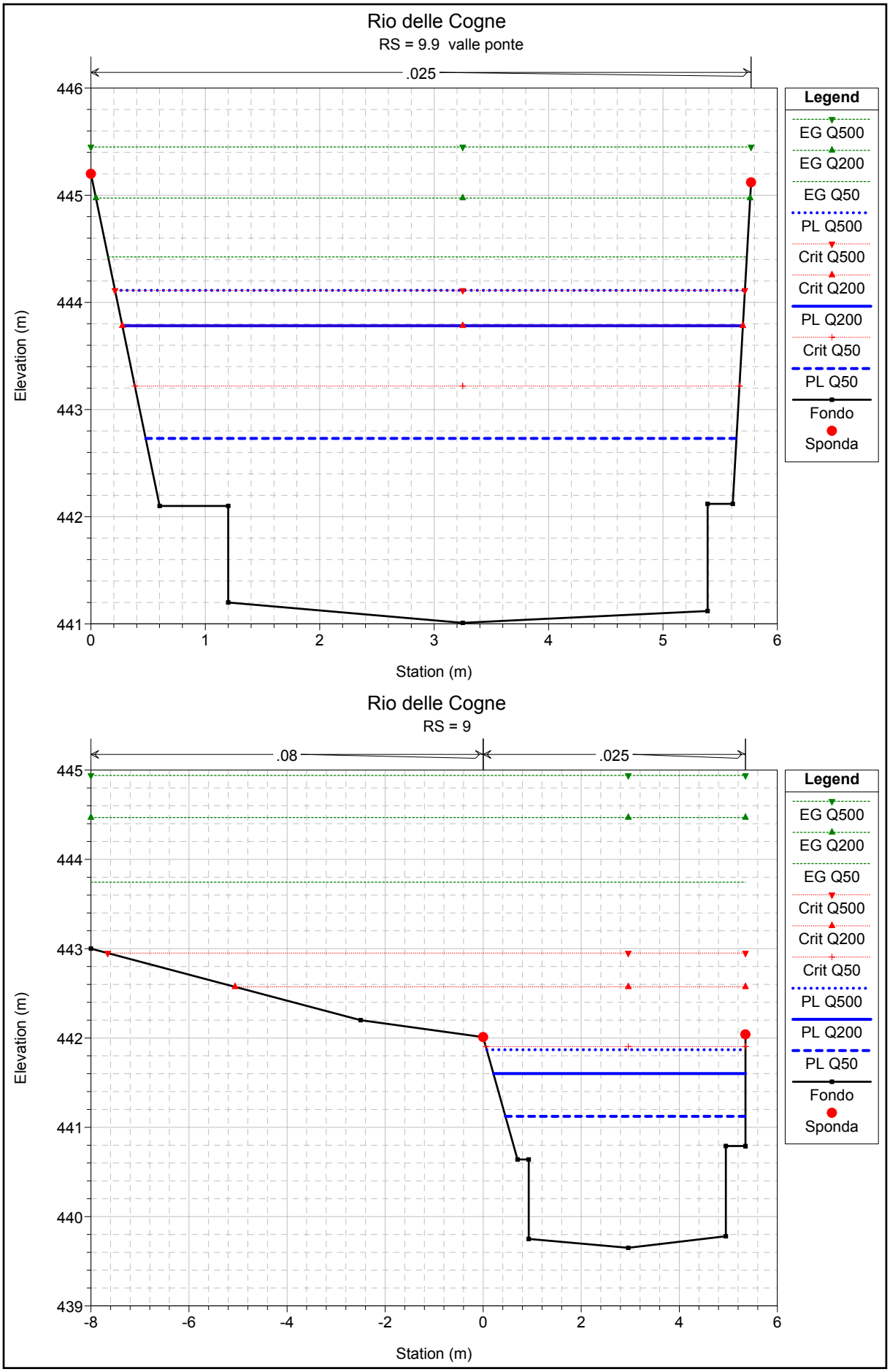

Rio delle Cogne
RS = 13 sez.13
.028
Elevation (m)
448
447
446
445
444
443
442
441
0
1
2
3
4
5
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Sponda

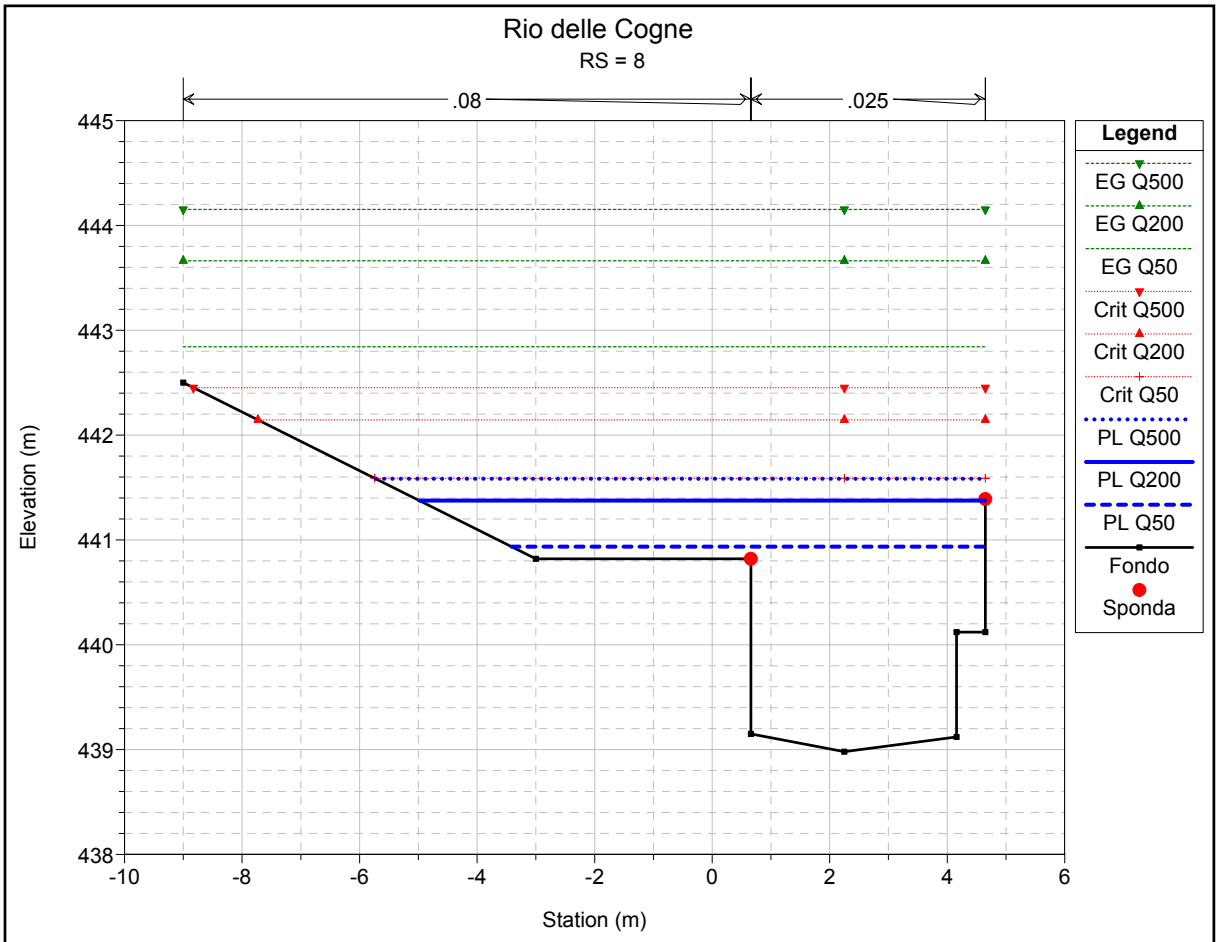

Rio delle Cogne
RS = 12 sez. 12
.028
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Sponda

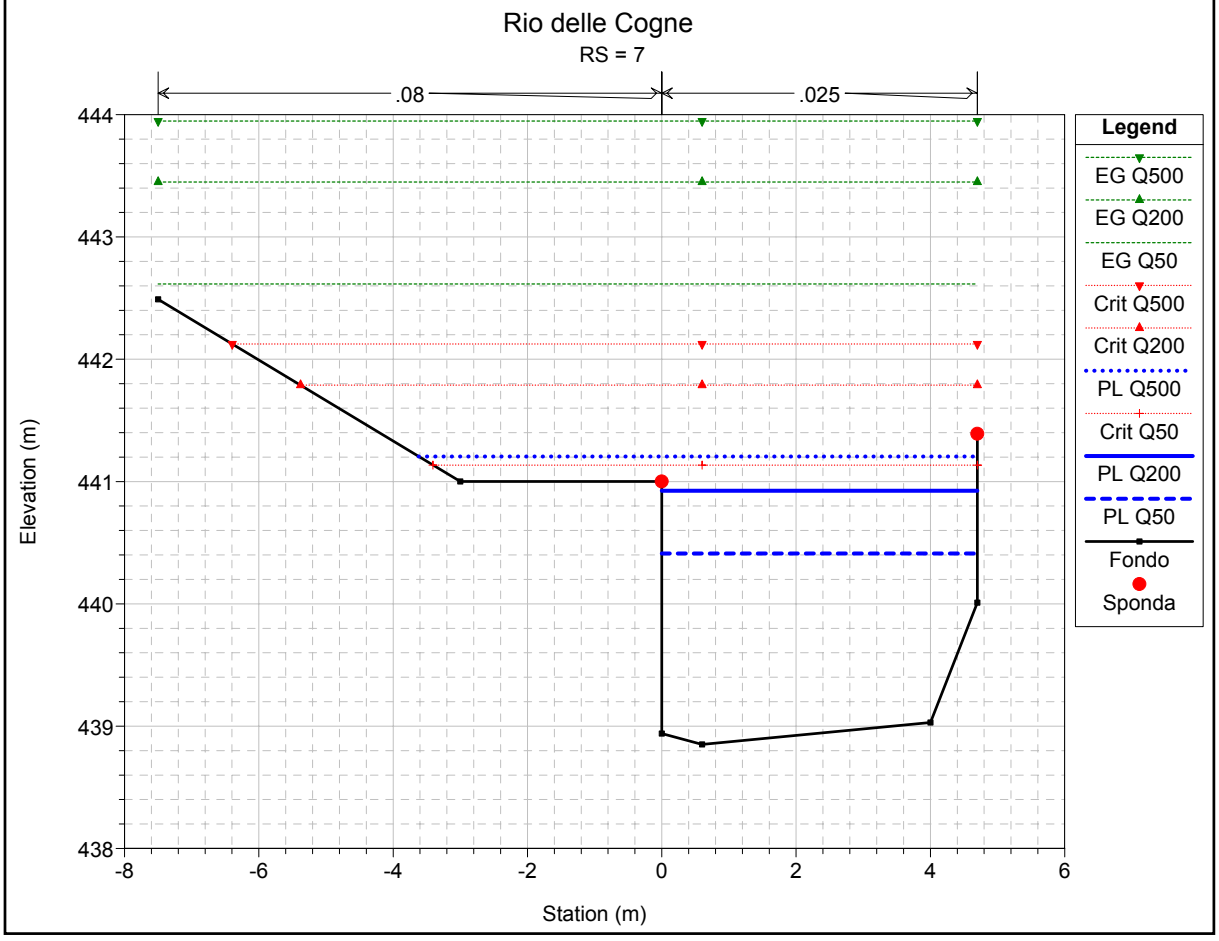

Rio delle Cogne
RS = 11 sez. 11
.025
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Sponda

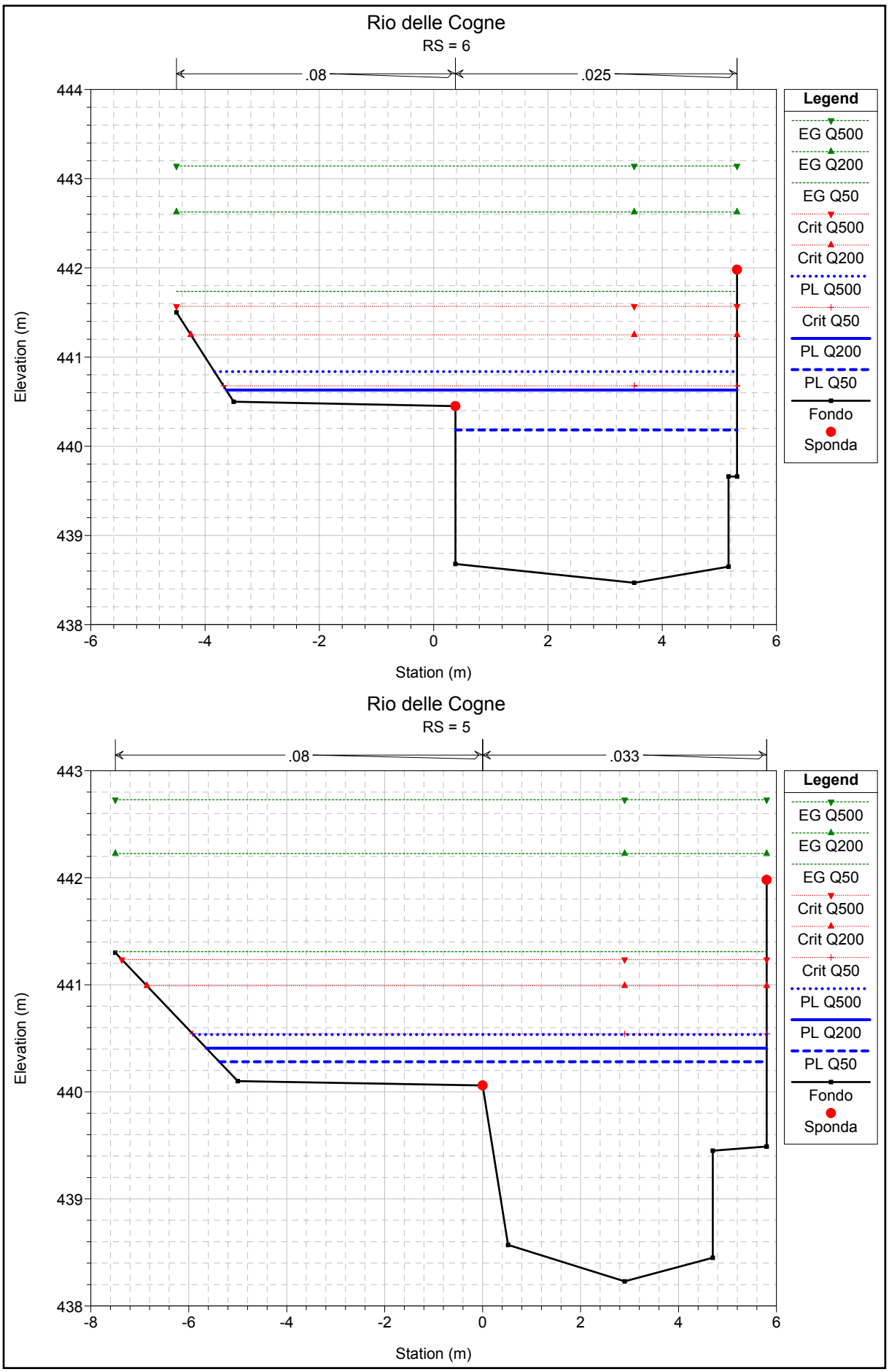

Rio delle Cogne
RS = 10.1 monte ponte
.025
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Sponda

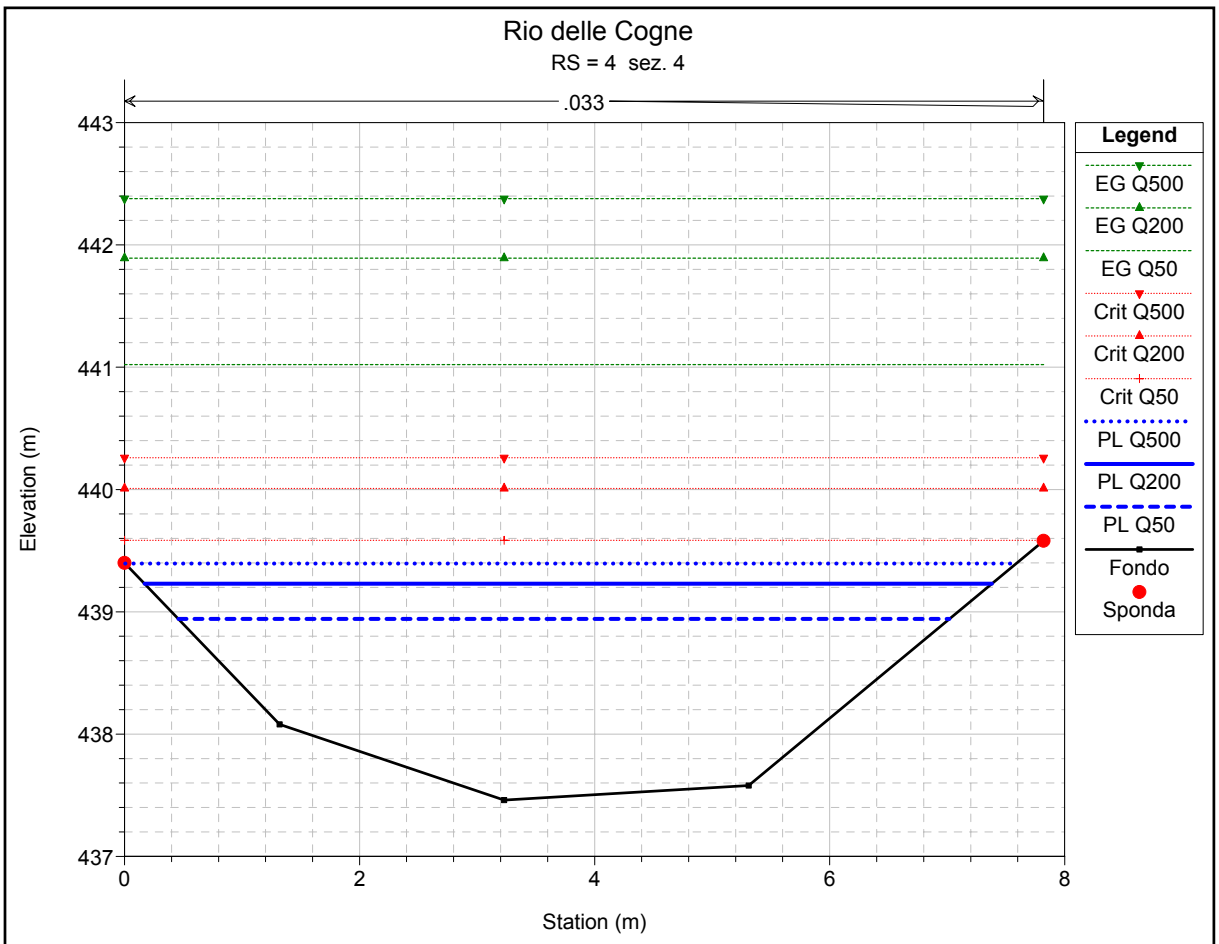

Rio delle Cogne
RS = 10 BR ponte SP
.025
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Sponda

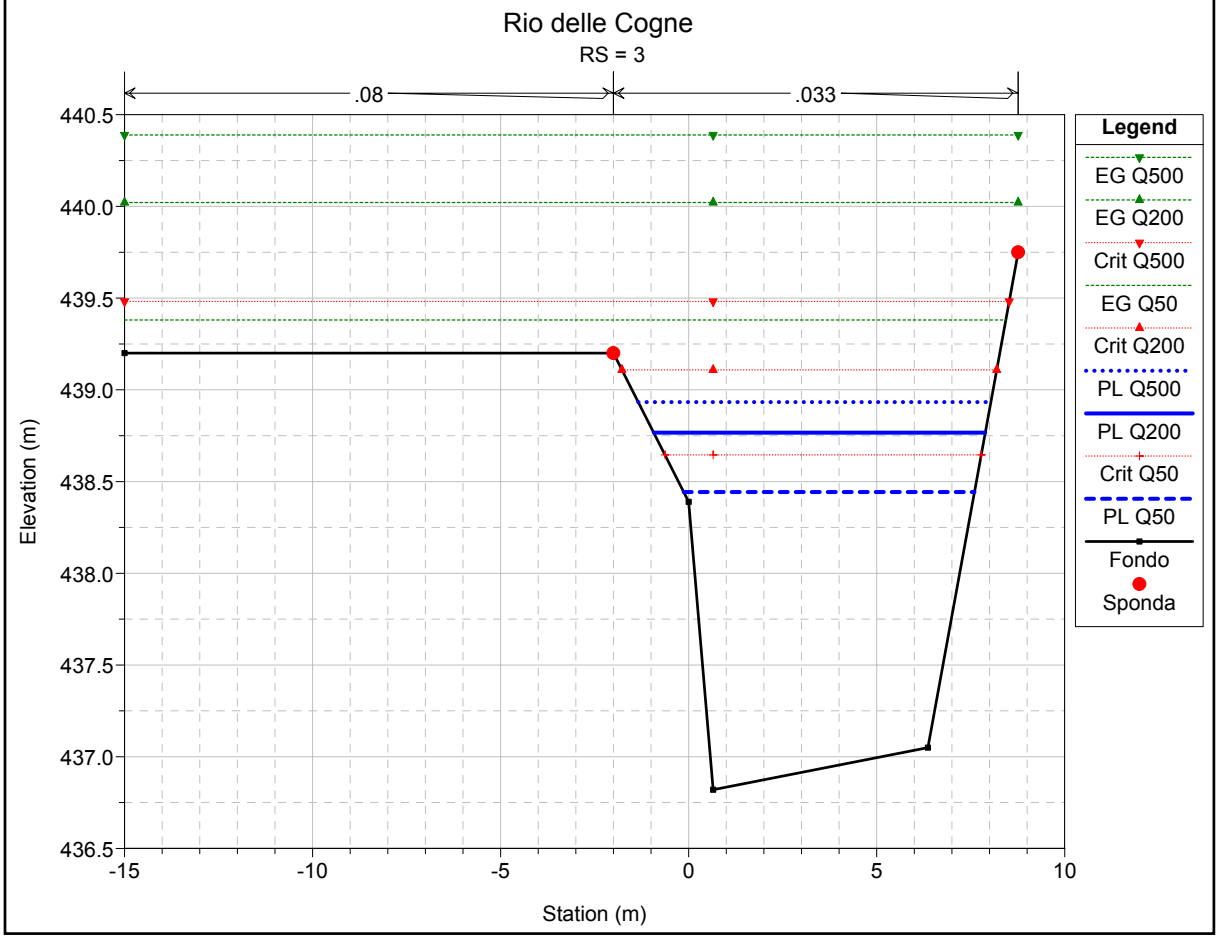

Rio delle Cogne
RS = 9.9 valle ponte
.025
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Sponda
Rio delle Cogne
RS = 9
.08
.025
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Sponda

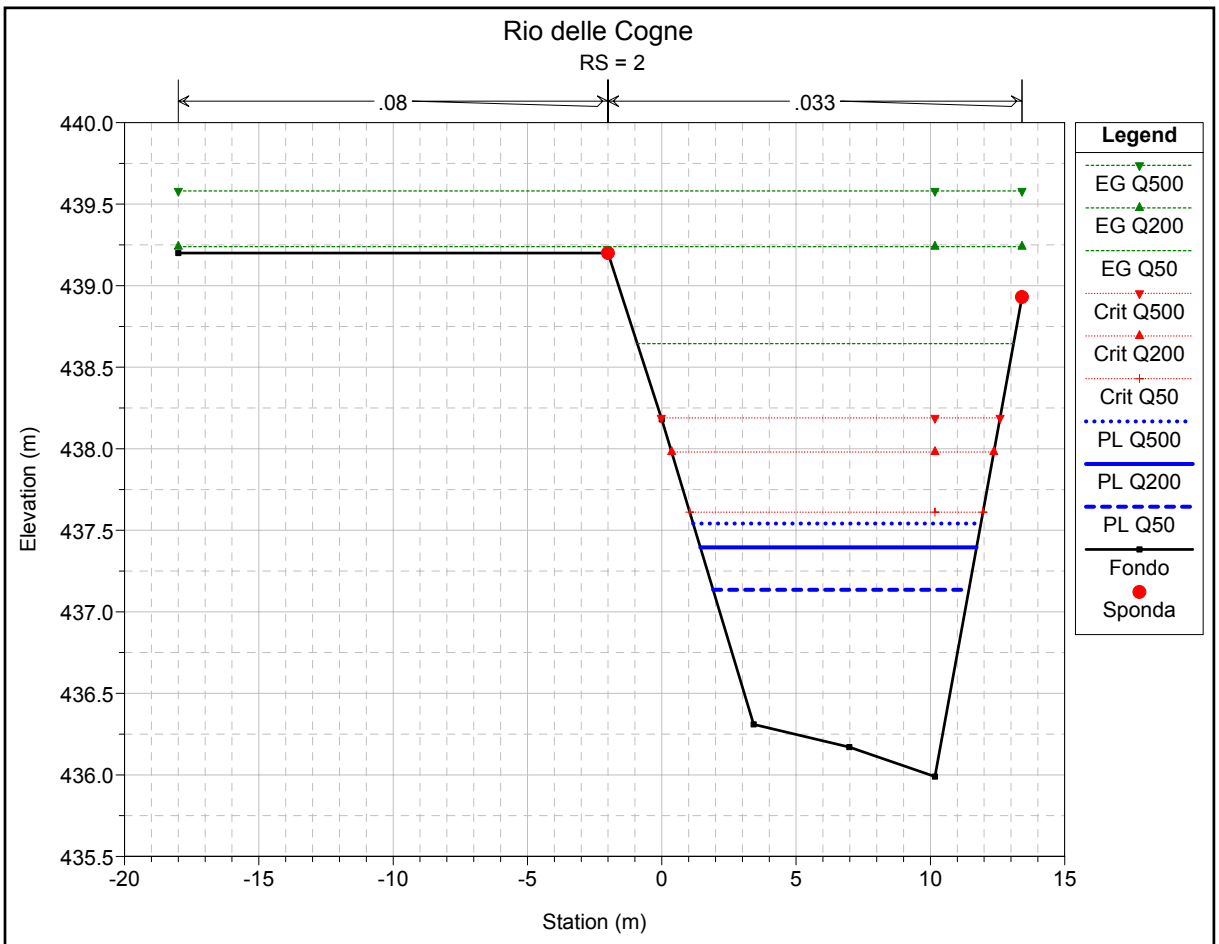

Rio delle Cogne
RS = 8
.08
.025
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Sponda

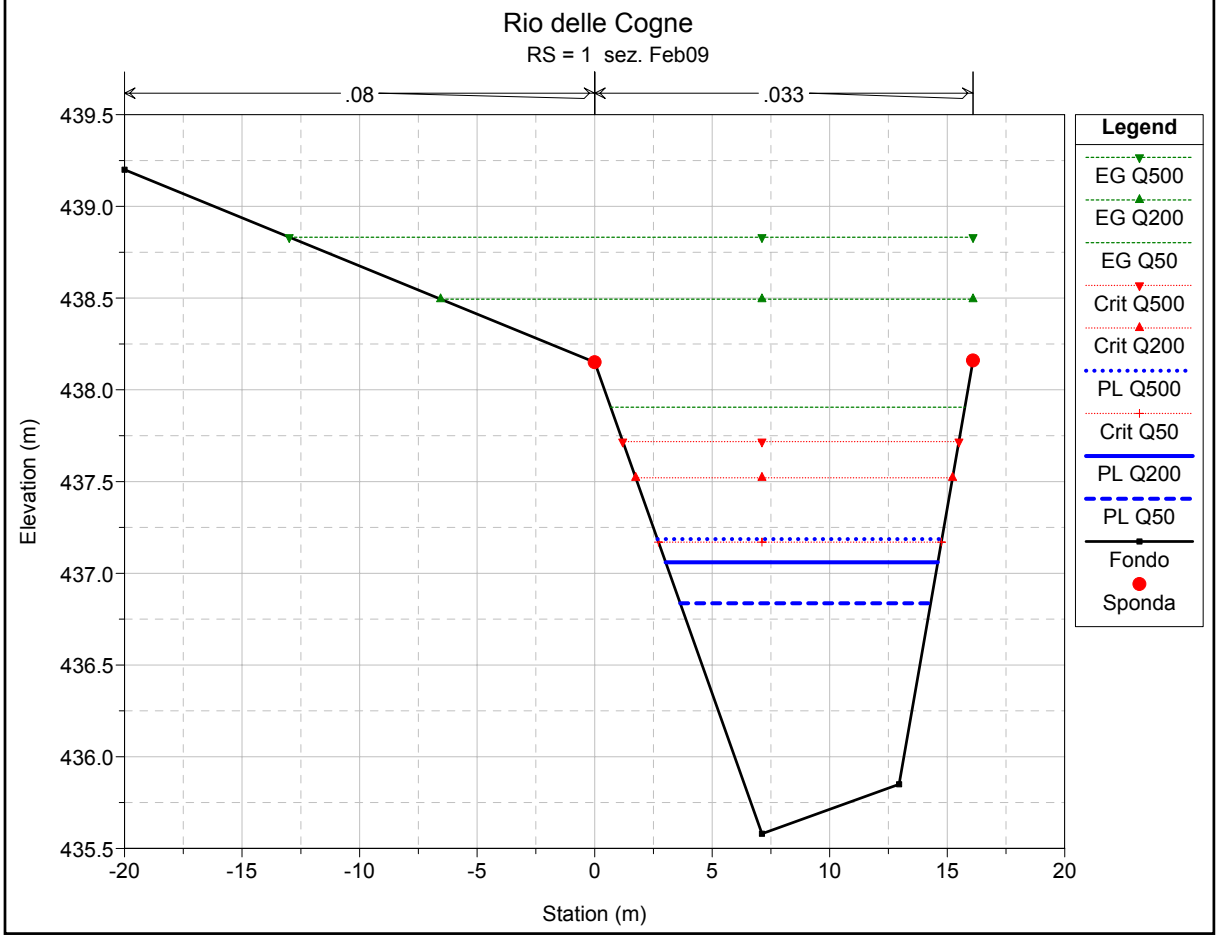

Rio delle Cogne
RS = 7
.08
.025
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Sponda


Rio delle Cogne
RS = 6
.08
.025
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Sponda
Rio delle Cogne
RS = 5
.08
.033
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Sponda


Rio delle Cogne
RS = 4 sez. 4
.033
Elevation (m)
443
442
441
440
439
438
437
0
2
4
6
8
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Sponda


Rio delle Cogne
RS = 3
.08
.033
Elevation (m)
440.5
440.0
439.5
439.0
438.5
438.0
437.5
437.0
436.5
-15
-10
-5
0
5
10
Station (m)
Legend
EG Q500
EG Q200
Crit Q500
EG Q50
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Sponda


Rio delle Cogne
RS = 2
.08
.033
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Sponda


Rio delle Cogne
RS = 1 sez. Feb09
.08
.033
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Sponda

HEC-RAS Plan: Mar09 River: Rio delle Cogne Reach: Rio delle Cogne

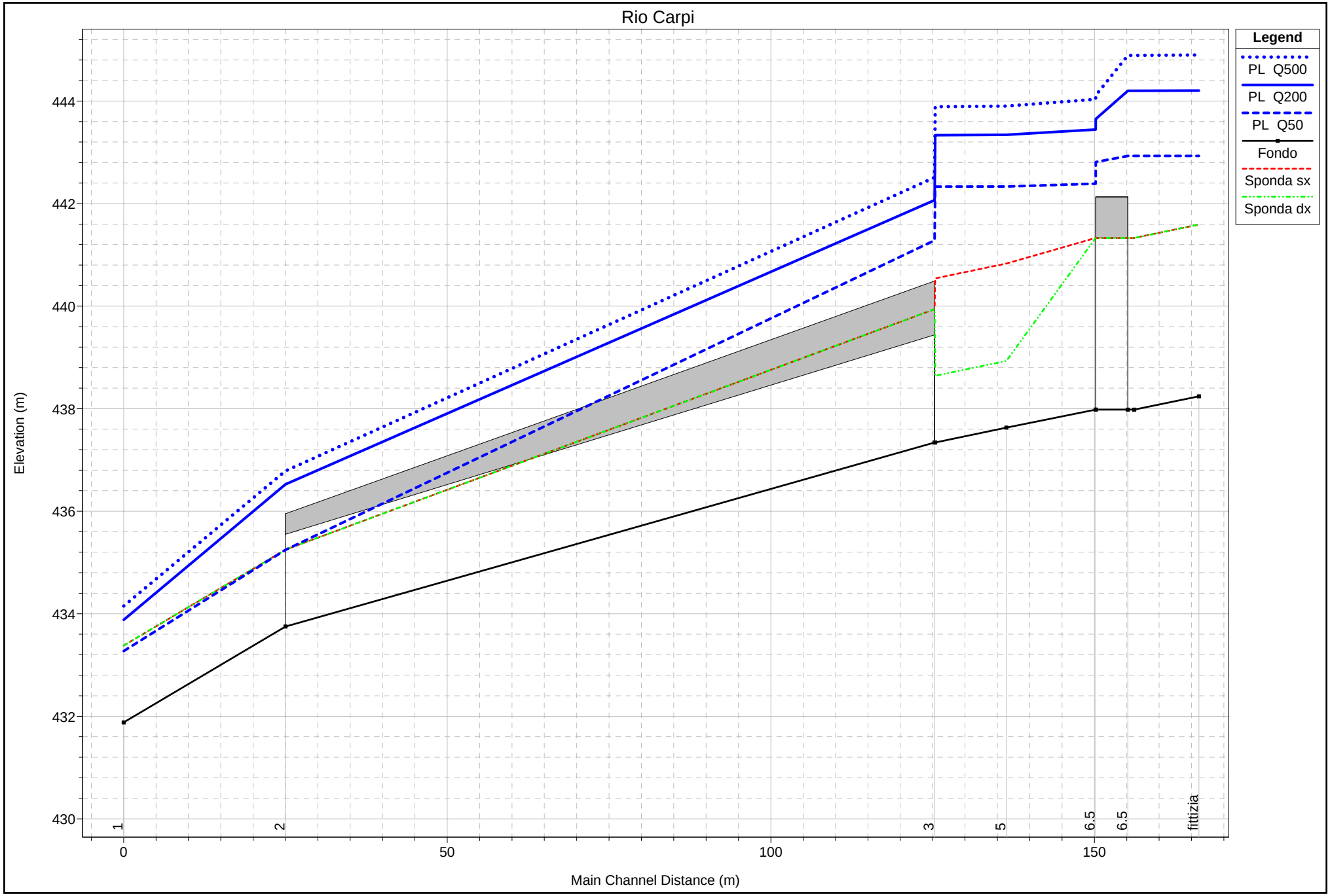
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio delle Cogne	14	Q50	43.00	442.13	444.72	444.81	0.09	444.81	0.09	444.72	445.74	0.016331	4.46	9.64	4.80	1.00
Rio delle Cogne	14	Q200	63.00	442.13	446.42	444.81	-1.61	444.81	-1.61	445.32	447.06	0.006737	3.54	17.78	4.80	0.59
Rio delle Cogne	14	Q500	76.00	442.13	446.92	444.81	-2.11	444.81	-2.11	445.66	447.64	0.007046	3.76	20.21	4.80	0.58
Rio delle Cogne	13	Q50	43.00	441.63	443.36	444.81	1.45	444.81	1.45	443.96	445.40	0.033600	6.31	6.81	4.25	1.59
Rio delle Cogne	13	Q200	63.00	441.63	446.51	444.81	-1.70	444.81	-1.70	444.62	446.95	0.003642	2.93	21.51	4.80	0.44
Rio delle Cogne	13	Q500	76.00	441.63	447.01	444.81	-2.20	444.81	-2.20	444.98	447.53	0.004085	3.18	23.93	4.80	0.45
Rio delle Cogne	12	Q50	43.00	441.37	443.38	444.81	1.43	444.81	1.43	443.82	445.05	0.025959	5.73	7.50	4.27	1.38
Rio delle Cogne	12	Q200	63.00	441.37	446.50	444.81	-1.69	444.81	-1.69	444.47	446.91	0.003437	2.85	22.07	4.80	0.42
Rio delle Cogne	12	Q500	76.00	441.37	447.00	444.81	-2.19	444.81	-2.19	444.85	447.49	0.003887	3.10	24.49	4.80	0.44
Rio delle Cogne	11	Q50	43.00	441.31	444.23	445.26	1.03	445.46	1.23	443.67	444.84	0.005230	3.47	12.38	4.99	0.70
Rio delle Cogne	11	Q200	63.00	441.31	446.53	445.26	-1.27	445.46	-1.07	444.28	446.86	0.001918	2.55	24.70	5.47	0.38
Rio delle Cogne	11	Q500	76.00	441.31	447.04	445.26	-1.78	445.46	-1.58	444.65	447.43	0.002143	2.76	27.50	5.47	0.39
Rio delle Cogne	10.1	Q50	43.00	441.31	444.35	445.26	0.91	445.46	1.11	443.48	444.78	0.003565	2.93	14.70	5.52	0.57
Rio delle Cogne	10.1	Q200	63.00	441.31	446.57	445.26	-1.31	445.46	-1.11	444.04	446.84	0.001518	2.30	27.42	5.77	0.34
Rio delle Cogne	10.1	Q500	76.00	441.31	447.09	445.26	-1.83	445.46	-1.63	444.37	447.41	0.001707	2.50	30.41	5.77	0.35
Rio delle Cogne	10		Bridge													
Rio delle Cogne	9.9	Q50	43.00	441.01	442.73	445.20	2.47	445.12	2.39	443.22	444.42	0.023499	5.77	7.46	5.16	1.53
Rio delle Cogne	9.9	Q200	63.00	441.01	443.78	445.20	1.42	445.12	1.34	443.78	444.97	0.010697	4.84	13.02	5.42	1.00
Rio delle Cogne	9.9	Q500	76.00	441.01	444.11	445.20	1.09	445.12	1.01	444.11	445.45	0.010972	5.12	14.83	5.51	1.00
Rio delle Cogne	9	Q50	43.00	439.65	441.12	442.01	0.89	442.04	0.92	441.90	443.75	0.042852	7.17	5.99	4.90	2.07
Rio delle Cogne	9	Q200	63.00	439.65	441.60	442.01	0.41	442.04	0.44	442.57	444.47	0.035449	7.50	8.40	5.14	1.87
Rio delle Cogne	9	Q500	76.00	439.65	441.87	442.01	0.14	442.04	0.17	442.95	444.94	0.033759	7.76	9.79	5.28	1.82
Rio delle Cogne	8	Q50	43.00	438.98	440.94	440.82	-0.12	441.39	0.45	441.59	442.84	0.025829	6.13	7.43	8.07	1.48
Rio delle Cogne	8	Q200	63.00	438.98	441.38	440.82	-0.56	441.39	0.01	442.14	443.66	0.025877	6.86	11.32	9.64	1.48
Rio delle Cogne	8	Q500	76.00	438.98	441.58	440.82	-0.76	441.39	-0.19	442.45	444.15	0.027370	7.37	13.39	10.37	1.52
Rio delle Cogne	7	Q50	43.00	438.85	440.41	441.00	0.59	441.39	0.98	441.13	442.61	0.030100	6.58	6.54	4.70	1.78
Rio delle Cogne	7	Q200	63.00	438.85	440.92	441.00	0.08	441.39	0.47	441.79	443.45	0.027184	7.04	8.95	4.70	1.63
Rio delle Cogne	7	Q500	76.00	438.85	441.21	441.00	-0.21	441.39	0.18	442.12	443.95	0.026189	7.36	10.95	8.32	1.59
Rio delle Cogne	6	Q50	43.00	438.47	440.18	440.45	0.27	441.98	1.80	440.68	441.74	0.019709	5.52	7.79	4.93	1.40
Rio delle Cogne	6	Q200	63.00	438.47	440.63	440.45	-0.18	441.98	1.35	441.25	442.63	0.020451	6.27	10.60	8.94	1.41
Rio delle Cogne	6	Q500	76.00	438.47	440.84	440.45	-0.39	441.98	1.14	441.57	443.14	0.021665	6.78	12.47	9.15	1.45
Rio delle Cogne	5	Q50	43.00	438.23	440.28	440.06	-0.22	441.98	1.70	440.54	441.31	0.020181	4.53	10.40	11.18	1.14
Rio delle Cogne	5	Q200	63.00	438.23	440.41	440.06	-0.35	441.98	1.57	440.99	442.23	0.033329	6.06	11.84	11.44	1.47
Rio delle Cogne	5	Q500	76.00	438.23	440.54	440.06	-0.48	441.98	1.45	441.24	442.73	0.037877	6.70	13.31	11.71	1.57
Rio delle Cogne	4	Q50	43.00	437.46	438.94	439.40	0.46	439.58	0.64	439.58	441.02	0.051345	6.39	6.73	6.56	2.01
Rio delle Cogne	4	Q200	63.00	437.46	439.23	439.40	0.17	439.58	0.35	440.01	441.89	0.053862	7.23	8.72	7.21	2.10
Rio delle Cogne	4	Q500	76.00	437.46	439.39	439.40	0.01	439.58	0.19	440.26	442.38	0.054820	7.65	9.93	7.58	2.13

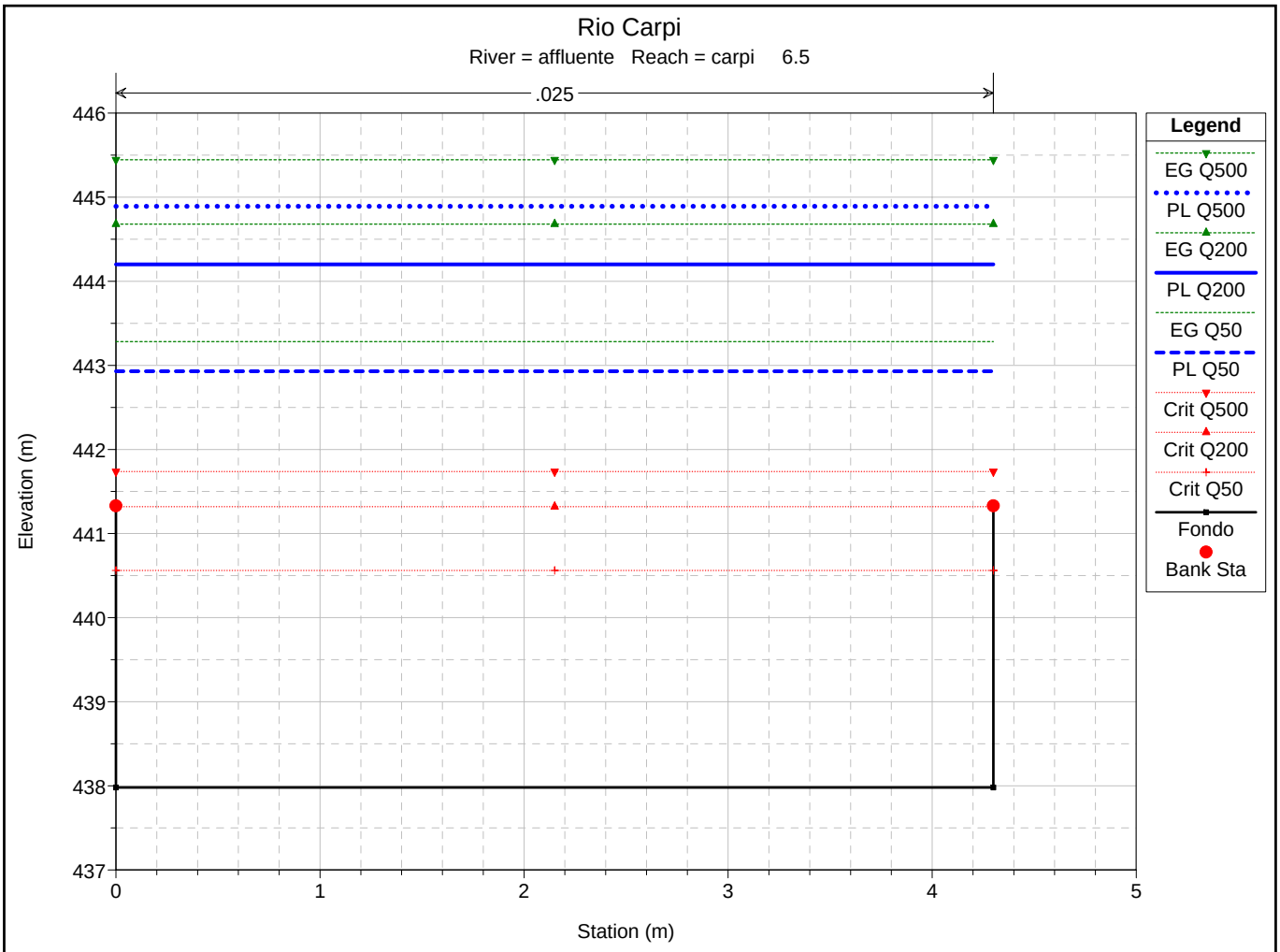
HEC-RAS Plan: Mar09 River: Rio delle Cogne Reach: Rio delle Cogne (Continued)

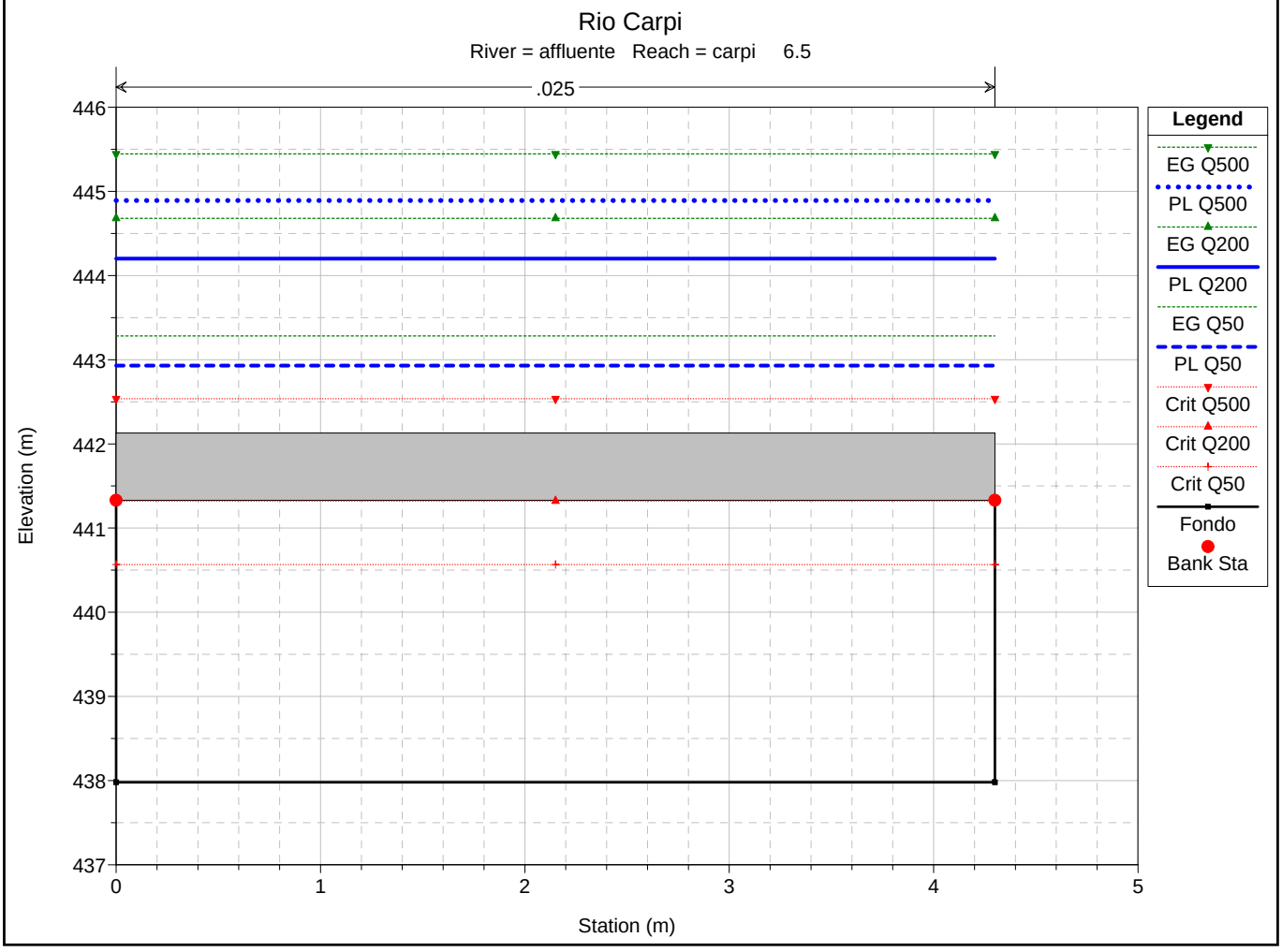
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio delle Cogne	3	Q50	43.00	436.82	438.44	439.20	0.76	439.75	1.31	438.65	439.38	0.018461	4.29	10.02	7.73	1.20
Rio delle Cogne	3	Q200	63.00	436.82	438.77	439.20	0.43	439.75	0.98	439.11	440.02	0.021384	4.96	12.70	8.81	1.32
Rio delle Cogne	3	Q500	76.00	436.82	438.93	439.20	0.27	439.75	0.82	439.48	440.39	0.023140	5.35	14.22	9.38	1.39
Rio delle Cogne	2	Q50	43.00	435.99	437.14	439.20	2.06	438.93	1.79	437.61	438.64	0.045250	5.44	7.90	9.52	1.91
Rio delle Cogne	2	Q200	63.00	435.99	437.40	439.20	1.81	438.93	1.53	437.98	439.24	0.042658	6.02	10.47	10.28	1.90
Rio delle Cogne	2	Q500	76.00	435.99	437.54	439.20	1.66	438.93	1.39	438.19	439.58	0.041774	6.33	12.01	10.71	1.91
Rio delle Cogne	1	Q50	43.00	435.58	436.84	438.15	1.31	438.16	1.32	437.17	437.91	0.028946	4.58	9.39	10.65	1.56
Rio delle Cogne	1	Q200	63.00	435.58	437.06	438.15	1.09	438.16	1.10	437.52	438.49	0.031930	5.31	11.87	11.58	1.67
Rio delle Cogne	1	Q500	76.00	435.58	437.19	438.15	0.96	438.16	0.97	437.72	438.83	0.033279	5.68	13.37	12.10	1.73

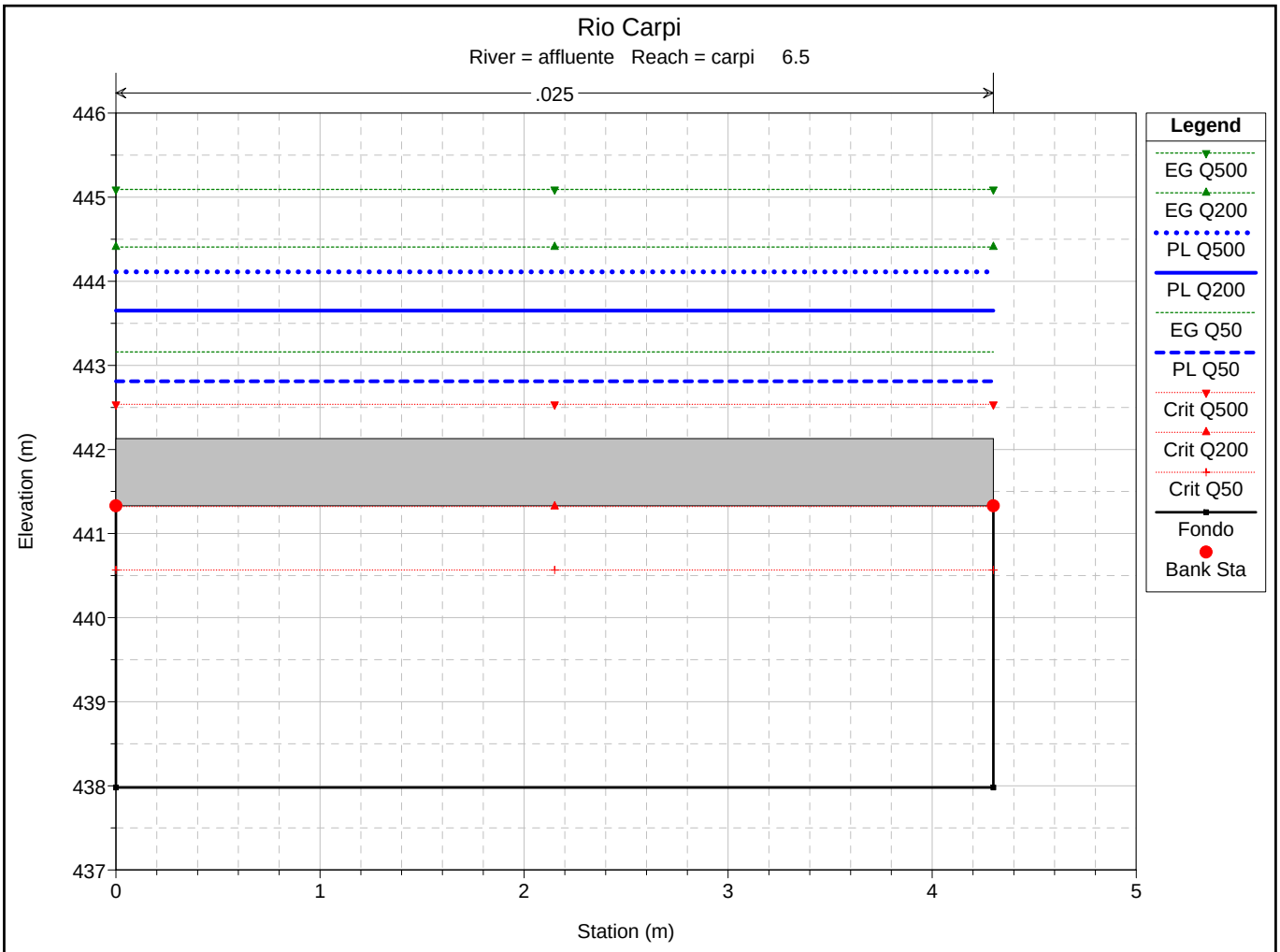
Rio Carpi

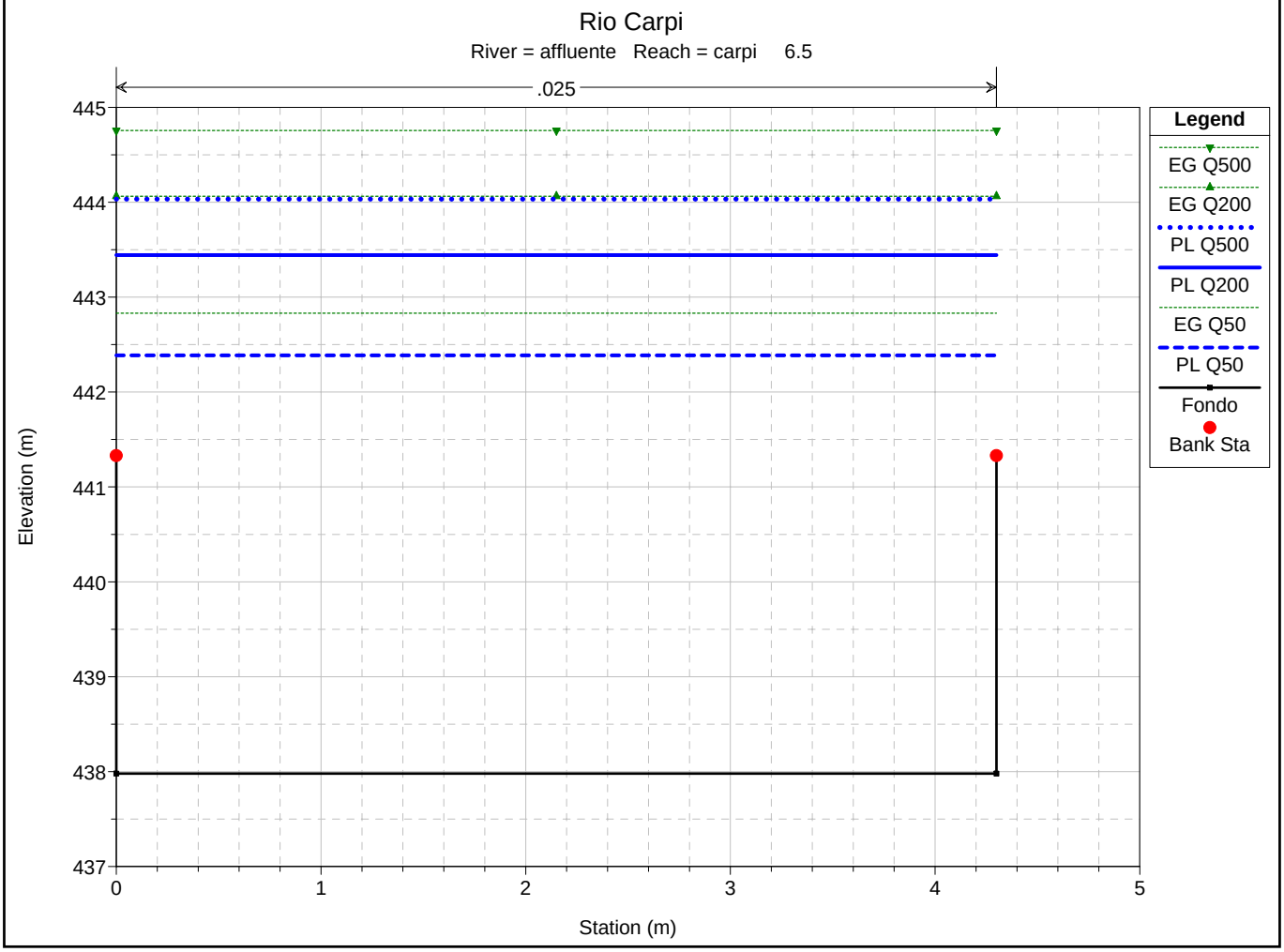
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

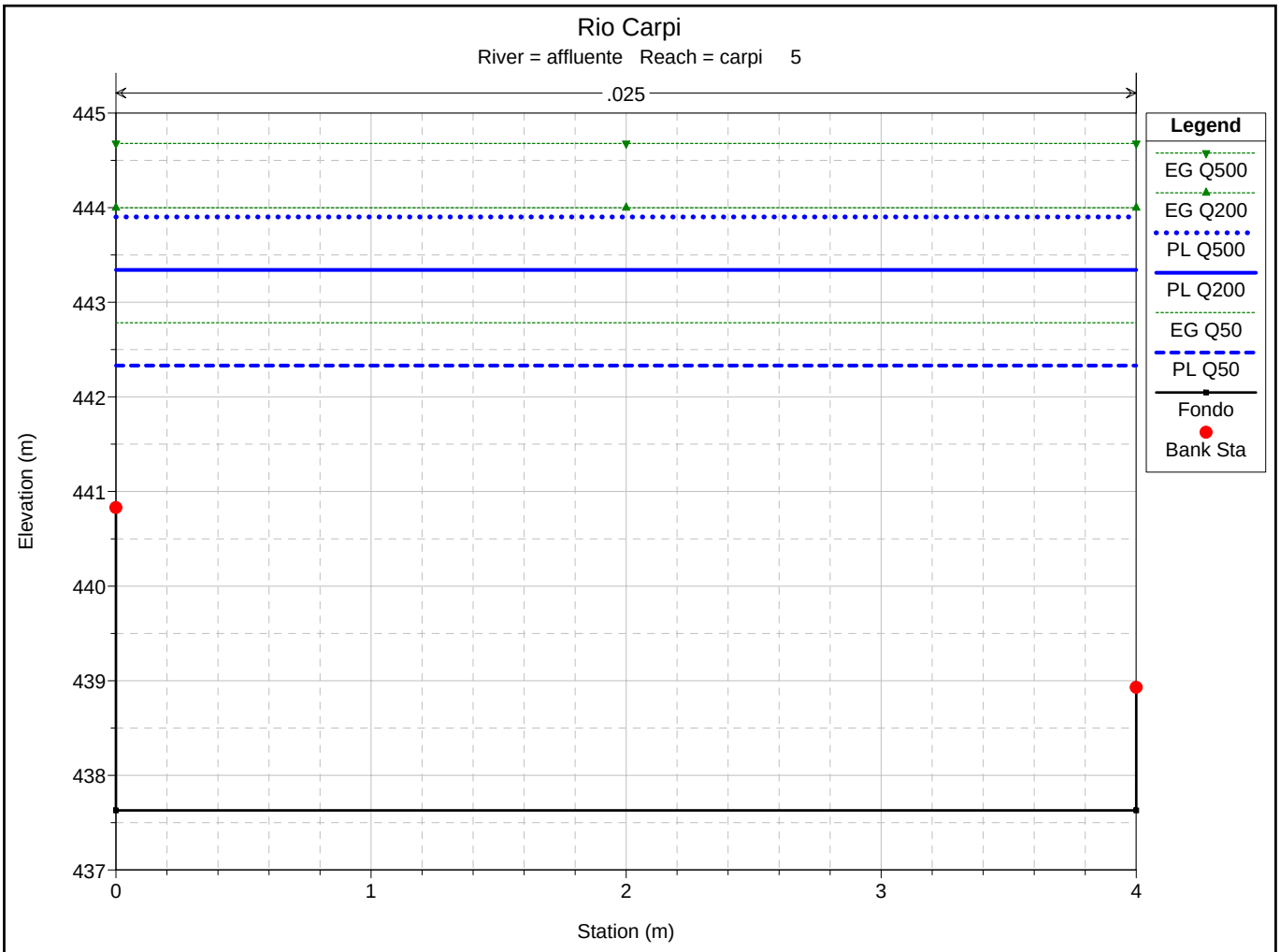

Rio Carpi
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
444
442
440
438
436
434
432
430
0
50
100
150
Main Channel Distance (m)
1
2
3
5
6.5
6.5
fittizia

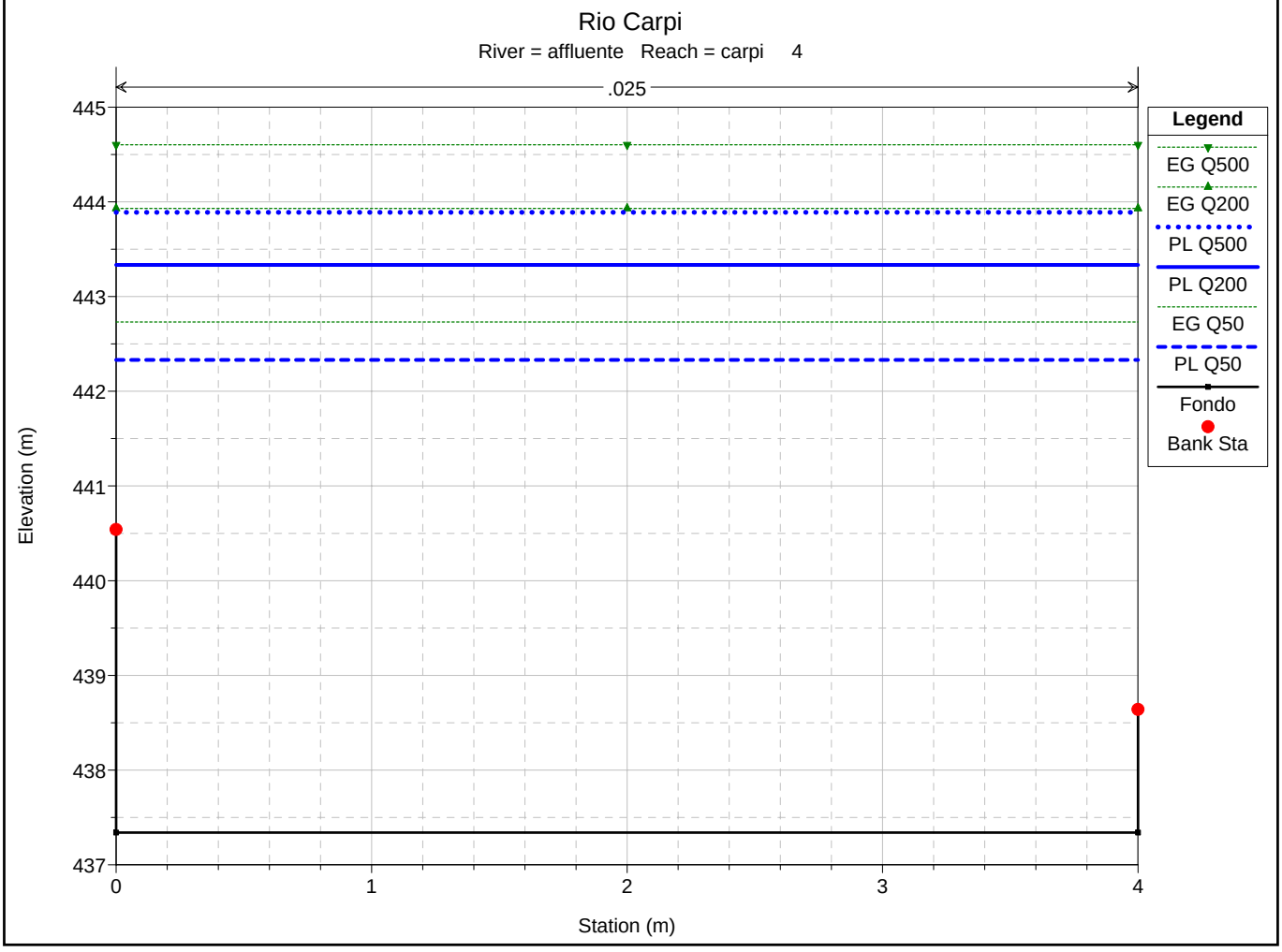

Rio Carpi
River = affluente Reach = carpi 6.5
.025
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

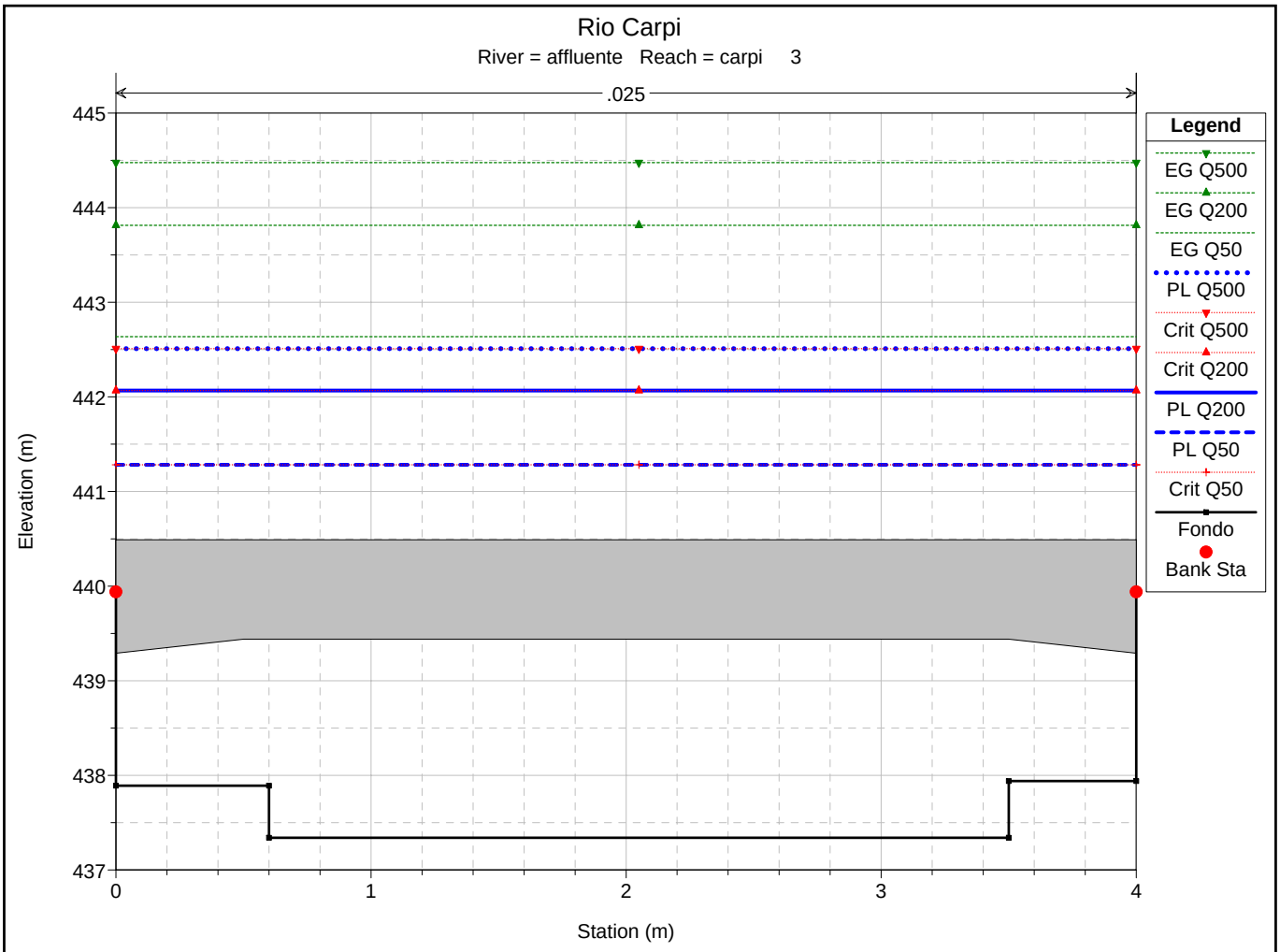

Rio Carpi
River = affluente Reach = carpi 6.5
.025
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

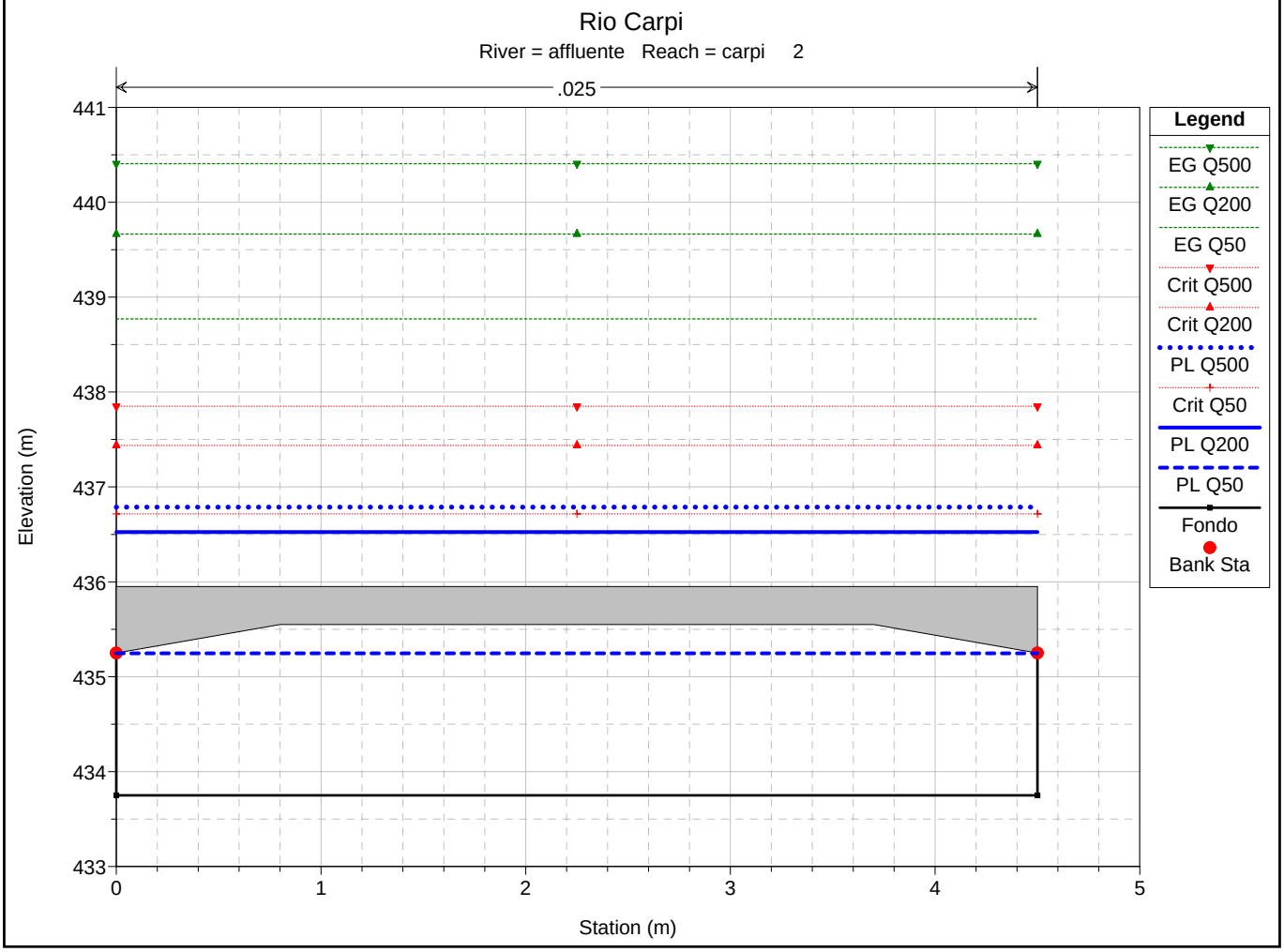

Rio Carpi
River = affluente Reach = carpi 6.5
.025
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

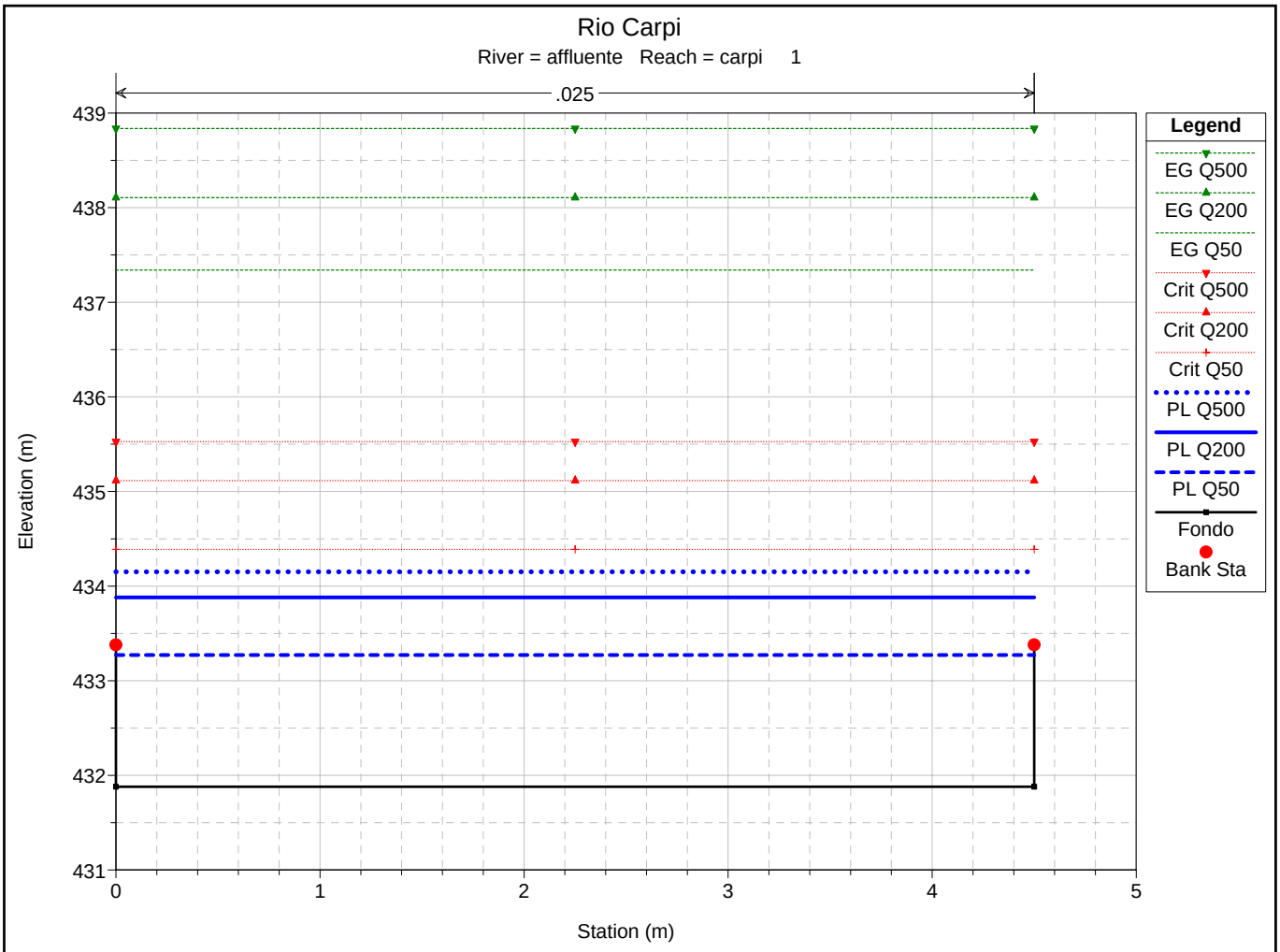

Rio Carpi
River = affluente Reach = carpi 6.5
.025
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Fondo
Bank Sta


Rio Carpi
River = affluente Reach = carpi 5
.025
Elevation (m)
445
444
443
442
441
440
439
438
437
0
1
2
3
4
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Fondo
Bank Sta


Rio Carpi
River = affluente Reach = carpi 4
.025
Elevation (m)
445
444
443
442
441
440
439
438
437
0
1
2
3
4
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Fondo
Bank Sta


Rio Carpi
River = affluente Reach = carpi 3
.025
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
445
444
443
442
441
440
439
438
437
0
1
2
3
4


Rio Carpi
River = affluente Reach = carpi 2
.025
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
441
440
439
438
437
436
435
434
433
0
1
2
3
4
5

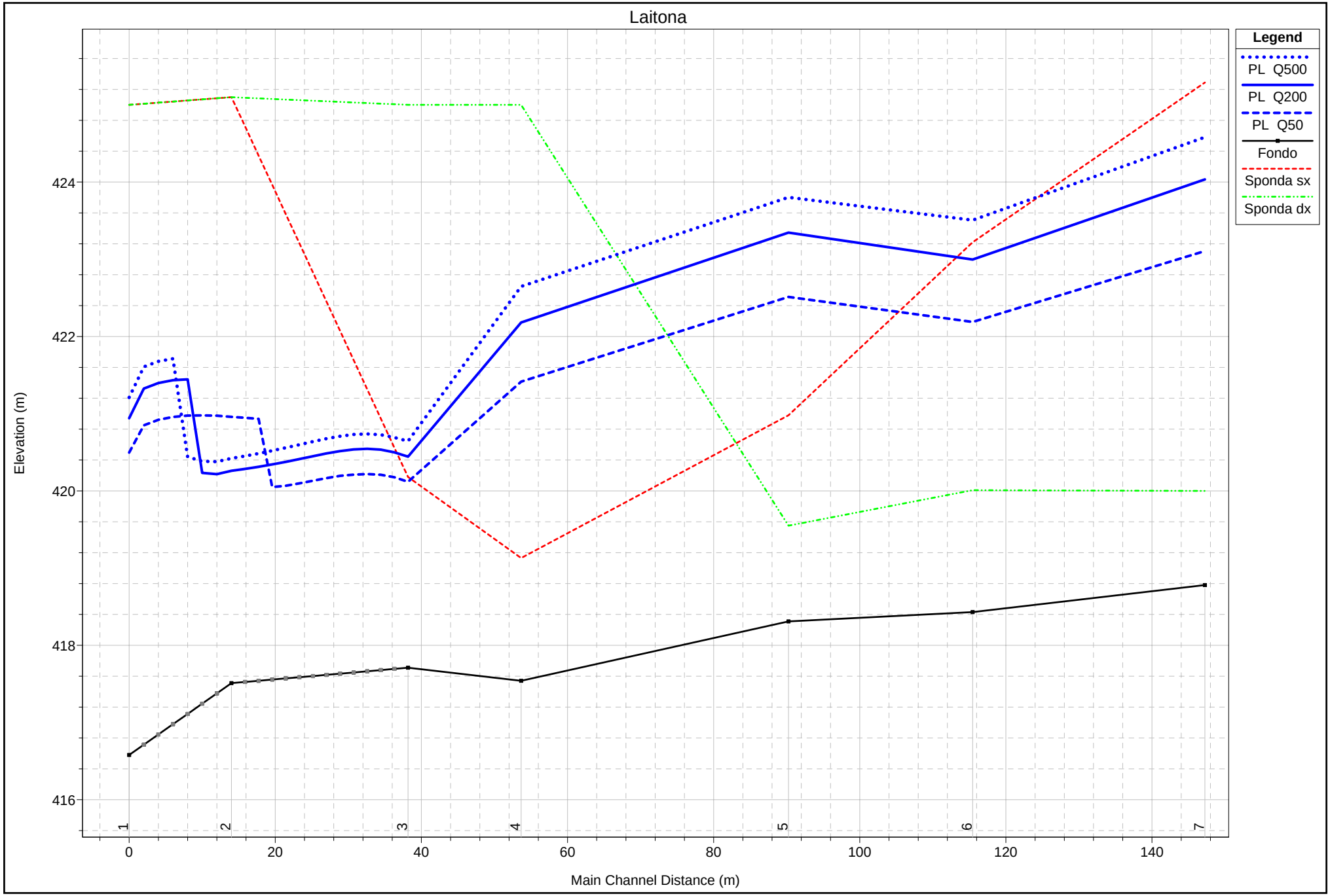

Rio Carpi
River = affluente Reach = carpi 1
.025
Elevation (m)
439
438
437
436
435
434
433
432
431
0
1
2
3
4
5
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

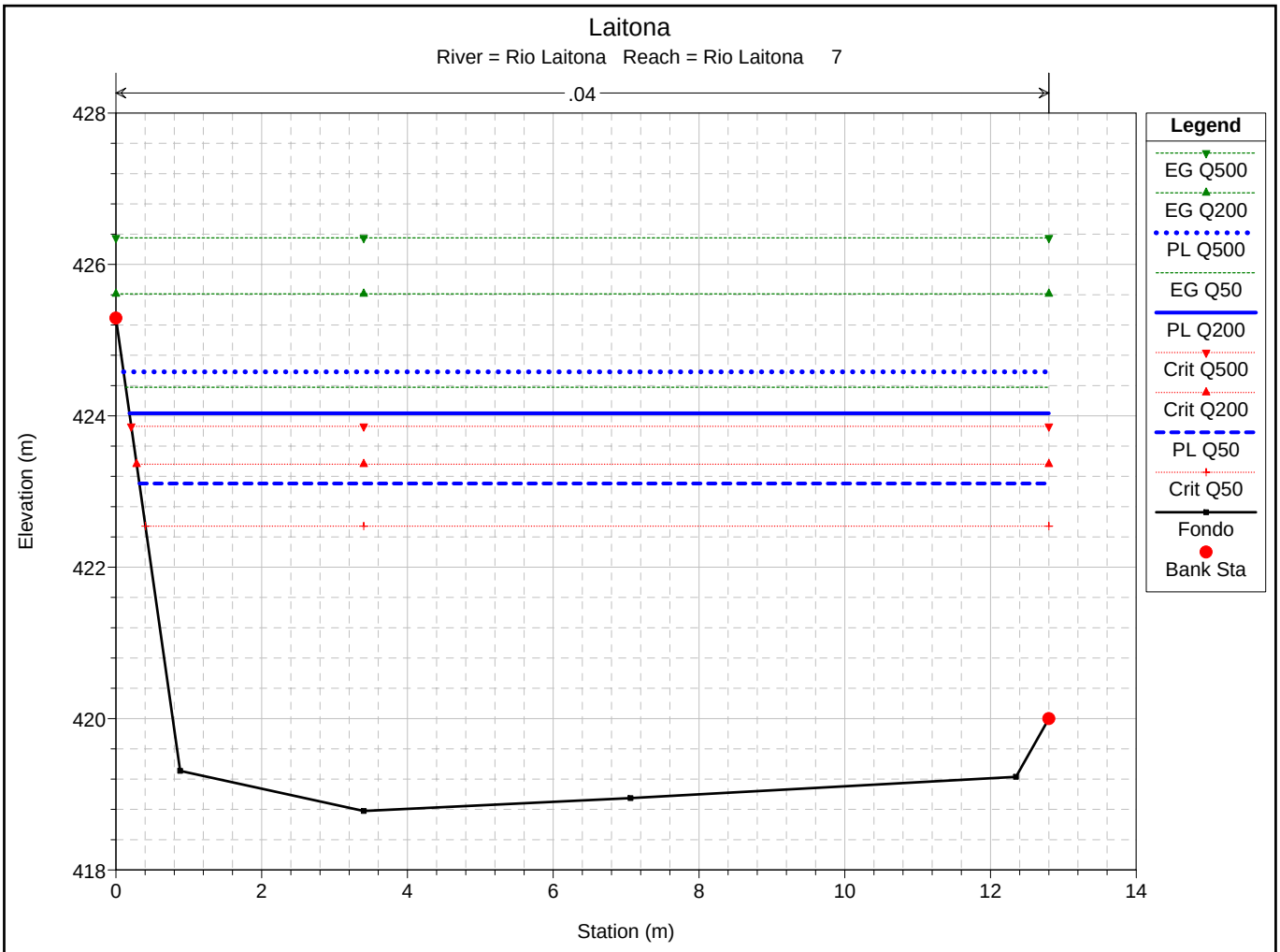
HEC-RAS Plan: Rio Carpi River: affluente Reach: carpi

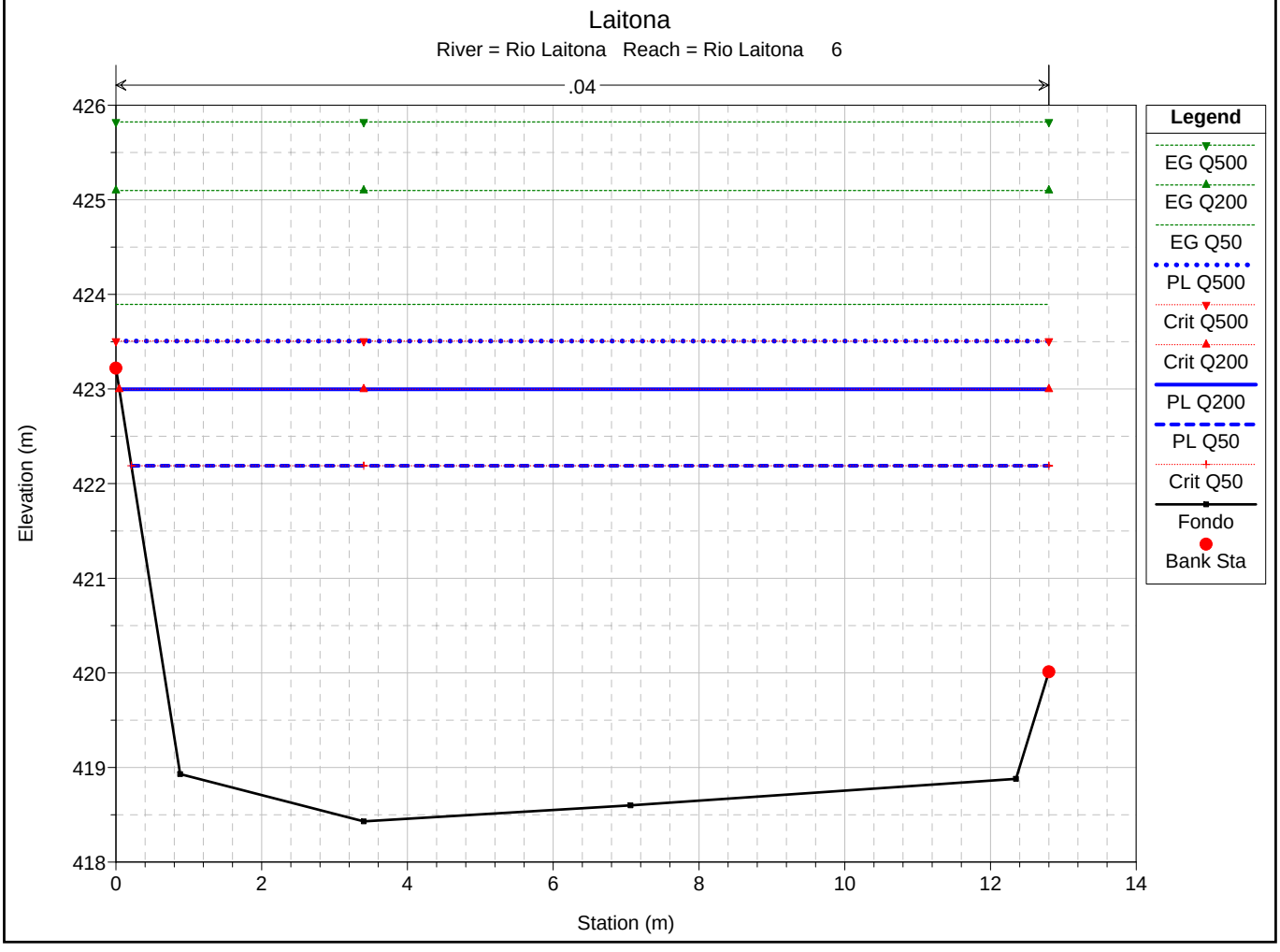
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
carpi	140 fittizia	Q50	56.00	438.24	442.93	441.59	-1.34	441.59	-1.34	440.82	443.32	0.002874	2.78	20.16	4.30	0.41
carpi	140 fittizia	Q200	82.00	438.24	444.20	441.59	-2.61	441.59	-2.61	441.57	444.72	0.003472	3.20	25.64	4.30	0.42
carpi	140 fittizia	Q500	98.00	438.24	444.90	441.59	-3.31	441.59	-3.31	441.98	445.49	0.003833	3.42	28.63	4.30	0.42
carpi	130 6.5	Q50	56.00	437.98	442.93	441.33	-1.60	441.33	-1.60	440.56	443.28	0.002522	2.63	21.29	4.30	0.38
carpi	130 6.5	Q200	82.00	437.98	444.20	441.33	-2.87	441.33	-2.87	441.32	444.68	0.003145	3.07	26.75	4.30	0.39
carpi	130 6.5	Q500	98.00	437.98	444.89	441.33	-3.56	441.33	-3.56	441.74	445.44	0.003515	3.30	29.72	4.30	0.40
carpi	125 6.5		Bridge													
carpi	120 6.5	Q50	56.00	437.98	442.39	441.33	-1.06	441.33	-1.06		442.83	0.003341	2.96	18.95	4.30	0.45
carpi	120 6.5	Q200	82.00	437.98	443.44	441.33	-2.11	441.33	-2.11		444.06	0.004270	3.49	23.49	4.30	0.48
carpi	120 6.5	Q500	98.00	437.98	444.03	441.33	-2.70	441.33	-2.70		444.76	0.004786	3.76	26.03	4.30	0.49
carpi	110 5	Q50	56.00	437.63	442.33	440.83	-1.50	438.93	-3.40		442.78	0.003528	2.98	18.81	4.00	0.44
carpi	110 5	Q200	82.00	437.63	443.34	440.83	-2.51	438.93	-4.41		444.00	0.004768	3.59	22.85	4.00	0.48
carpi	110 5	Q500	98.00	437.63	443.90	440.83	-3.07	438.93	-4.97		444.68	0.005474	3.91	25.09	4.00	0.50
carpi	101 4	Q50	56.00	437.34	442.33	440.54	-1.79	438.64	-3.69		442.73	0.003059	2.81	19.96	4.00	0.40
carpi	101 4	Q200	82.00	437.34	443.33	440.54	-2.79	438.64	-4.69		443.93	0.004259	3.42	23.98	4.00	0.45
carpi	101 4	Q500	98.00	437.34	443.89	440.54	-3.35	438.64	-5.25		444.60	0.004952	3.74	26.20	4.00	0.47
carpi	100 3	Q50	56.00	437.34	441.28	439.29	-1.99	439.29	-1.99	441.28	442.64	0.027707	5.16	10.86	4.00	0.85
carpi	100 3	Q200	82.00	437.34	442.07	439.29	-2.78	439.29	-2.78	442.07	443.81	0.025486	5.86	14.00	4.00	0.87
carpi	100 3	Q500	98.00	437.34	442.51	439.29	-3.22	439.29	-3.22	442.51	444.48	0.024480	6.21	15.77	4.00	0.89
carpi	50 2	Q50	56.00	433.75	435.25	435.25	0.00	435.25	0.00	436.72	438.77	0.049860	8.32	6.73	4.50	2.17
carpi	50 2	Q200	82.00	433.75	436.52	435.25	-1.27	435.25	-1.27	437.44	439.66	0.071515	7.85	10.44	4.50	1.50
carpi	50 2	Q500	98.00	433.75	436.79	435.25	-1.54	435.25	-1.54	437.85	440.41	0.071430	8.43	11.63	4.50	1.54
carpi	40 1	Q50	56.00	431.88	433.27	433.38	0.11	433.38	0.11	434.39	437.34	0.061011	8.94	6.27	4.50	2.42
carpi	40 1	Q200	82.00	431.88	433.88	433.38	-0.50	433.38	-0.50	435.11	438.11	0.048009	9.11	9.00	4.50	2.05
carpi	40 1	Q500	98.00	431.88	434.15	433.38	-0.77	433.38	-0.77	435.53	438.84	0.048829	9.59	10.22	4.50	2.03

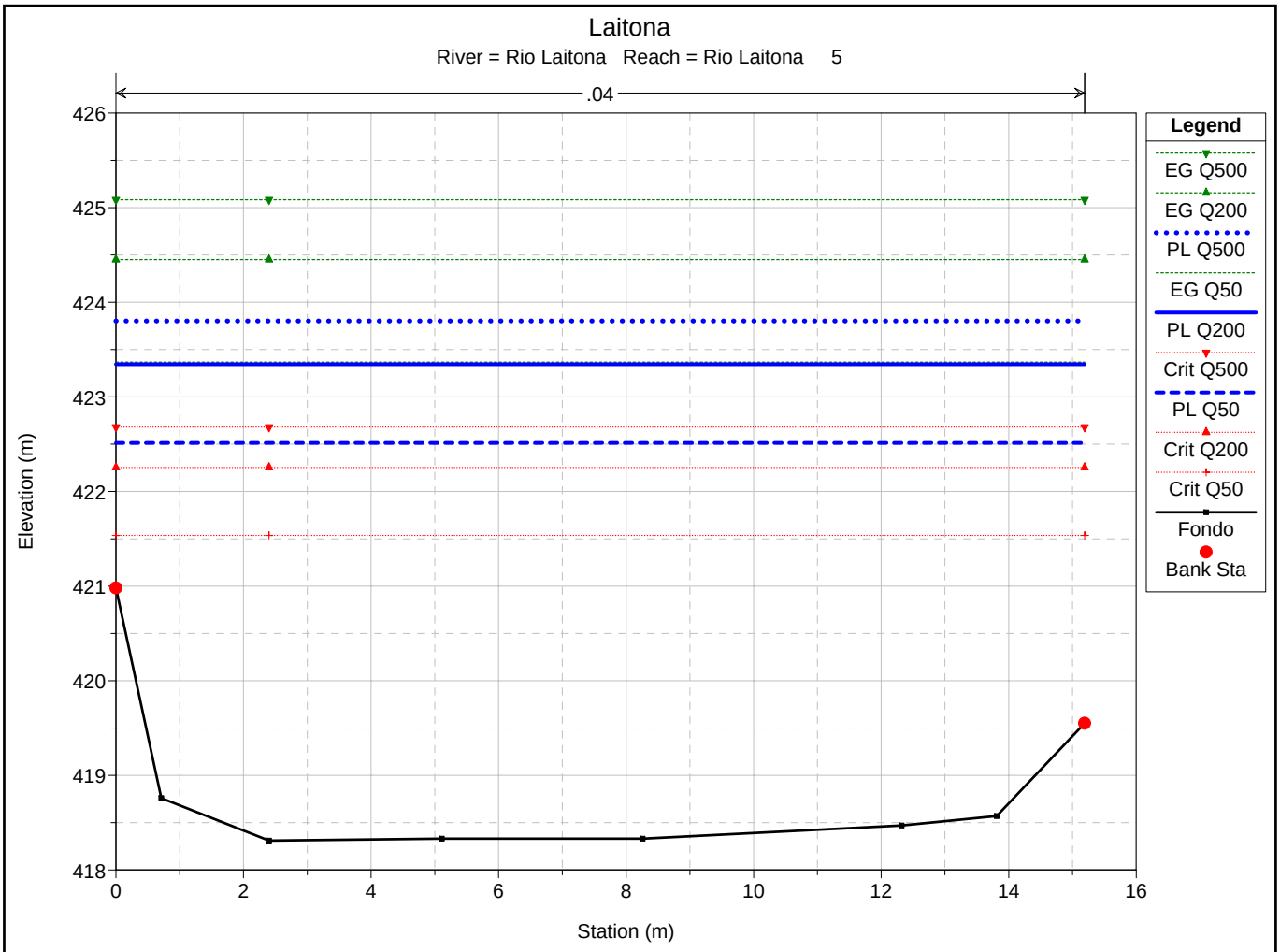
Rio Laitona

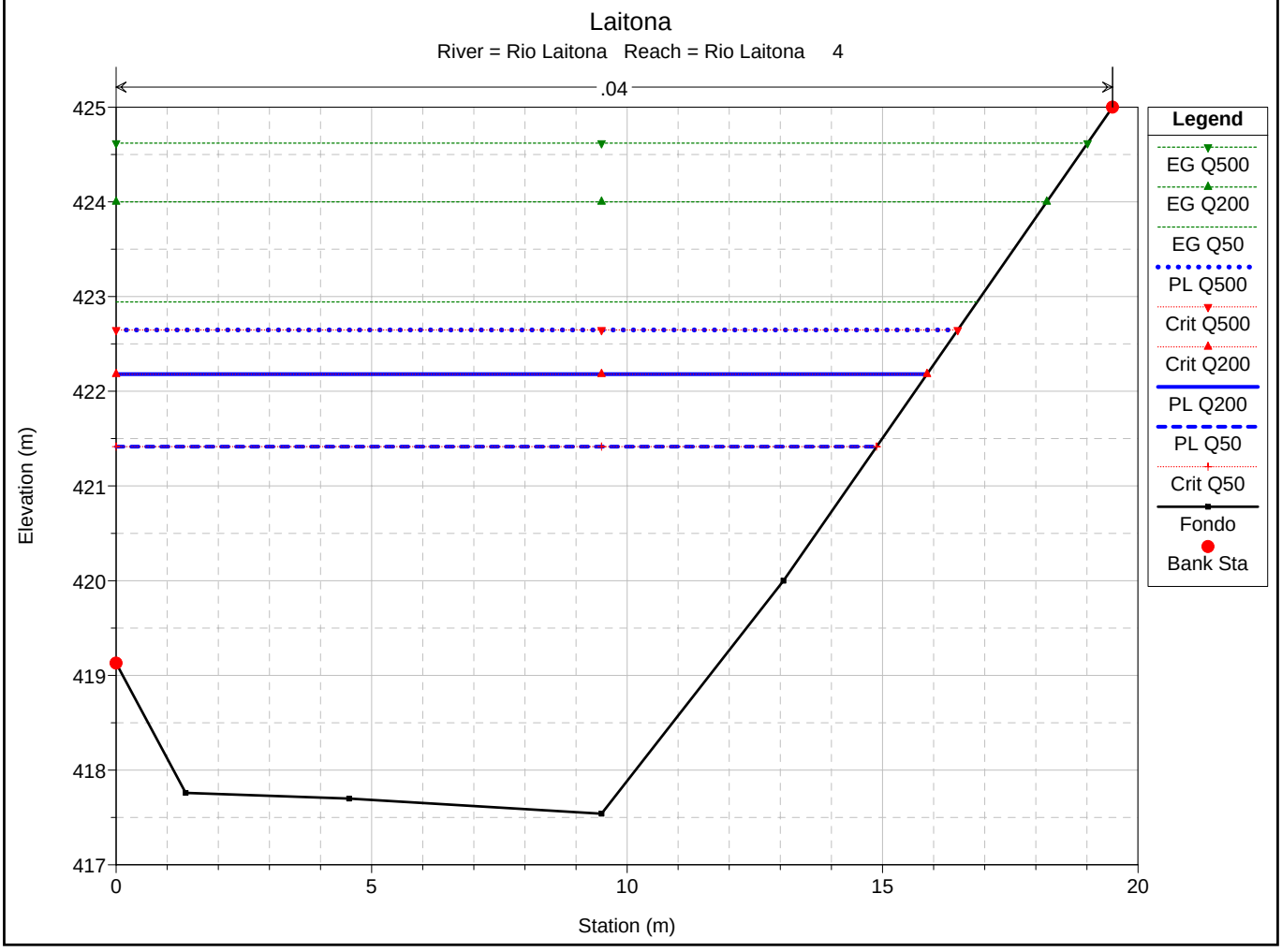
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

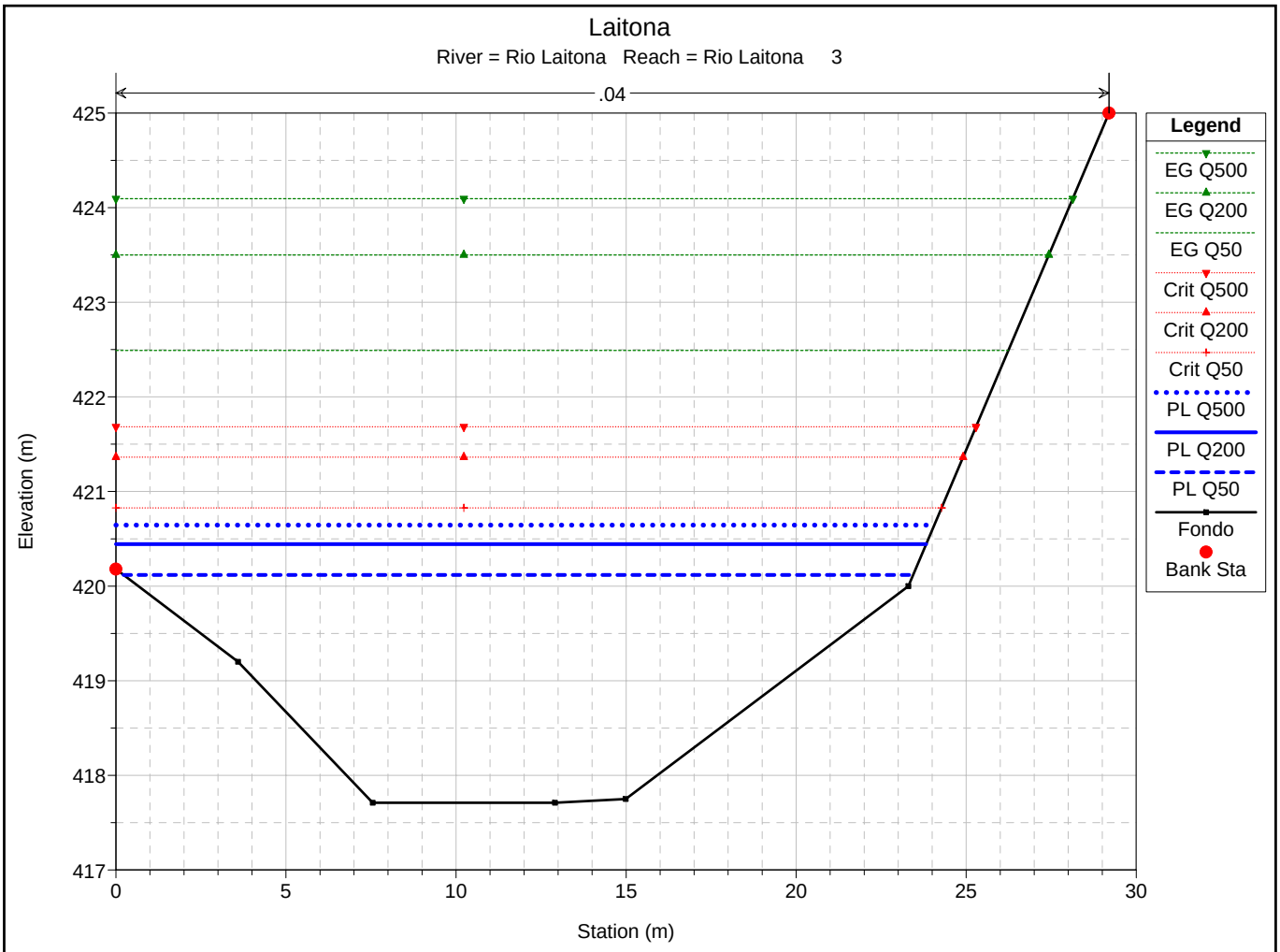

Laitona
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
424
422
420
418
416
0
20
40
60
80
100
120
140
Main Channel Distance (m)
1
2
3
4
5
6
7

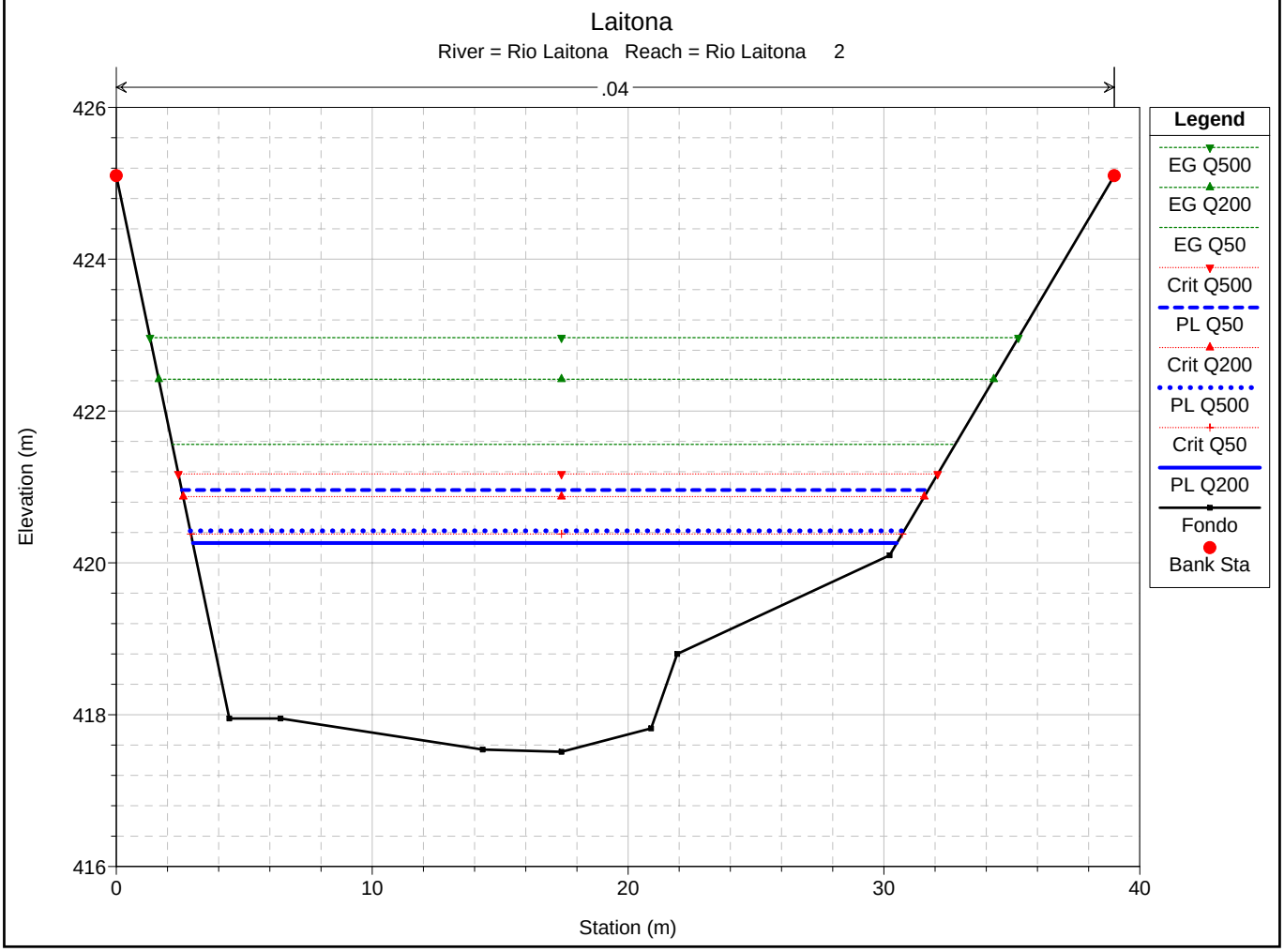

Laitona
River = Rio Laitona Reach = Rio Laitona 7
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

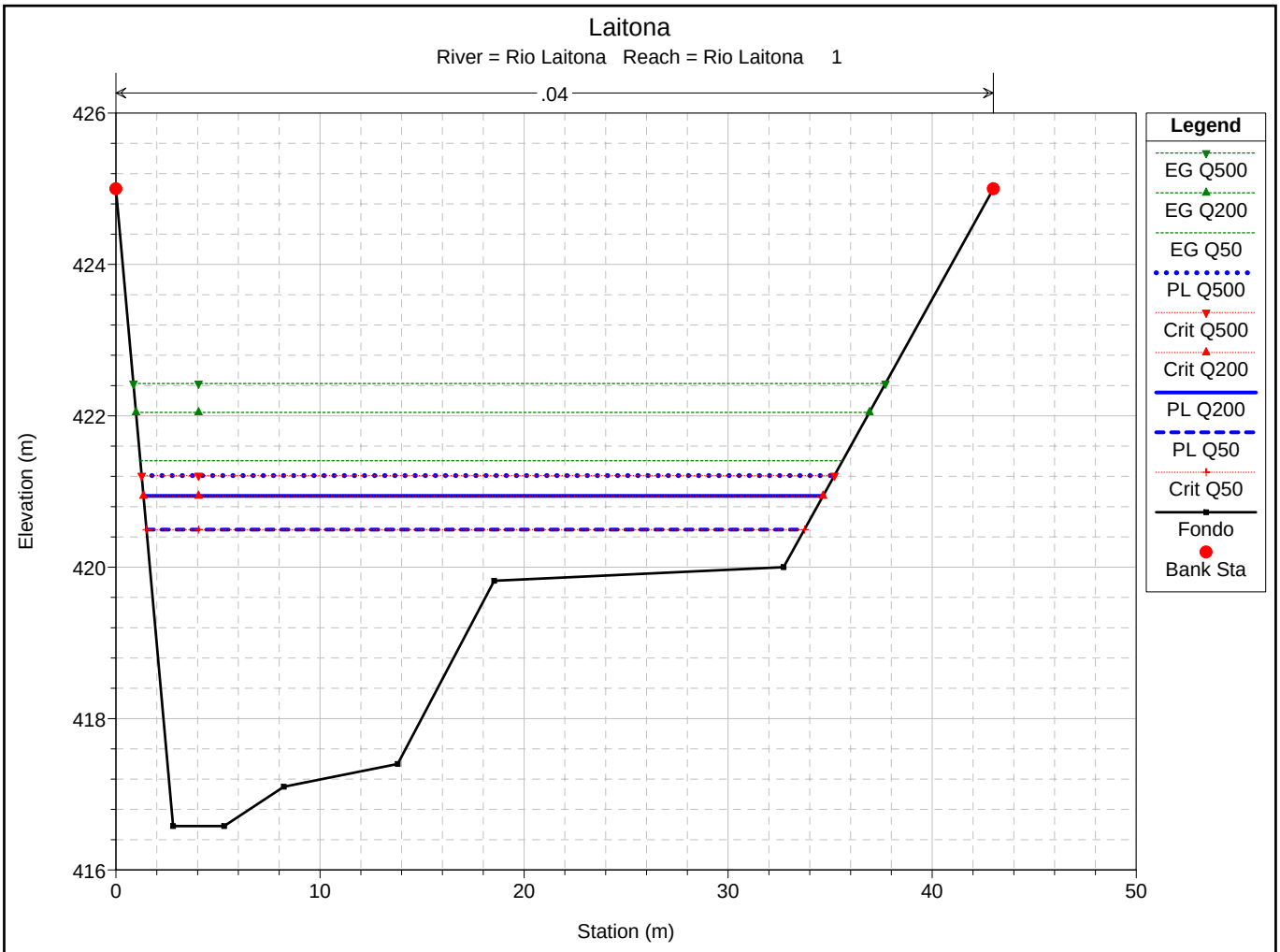

Laitona
River = Rio Laitona Reach = Rio Laitona 6
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Laitona
River = Rio Laitona Reach = Rio Laitona 5
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


Laitona
River = Rio Laitona Reach = Rio Laitona 4
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Laitona
River = Rio Laitona Reach = Rio Laitona 3
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Laitona
River = Rio Laitona Reach = Rio Laitona 2
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
PL Q500
Crit Q50
PL Q200
Fondo
Bank Sta

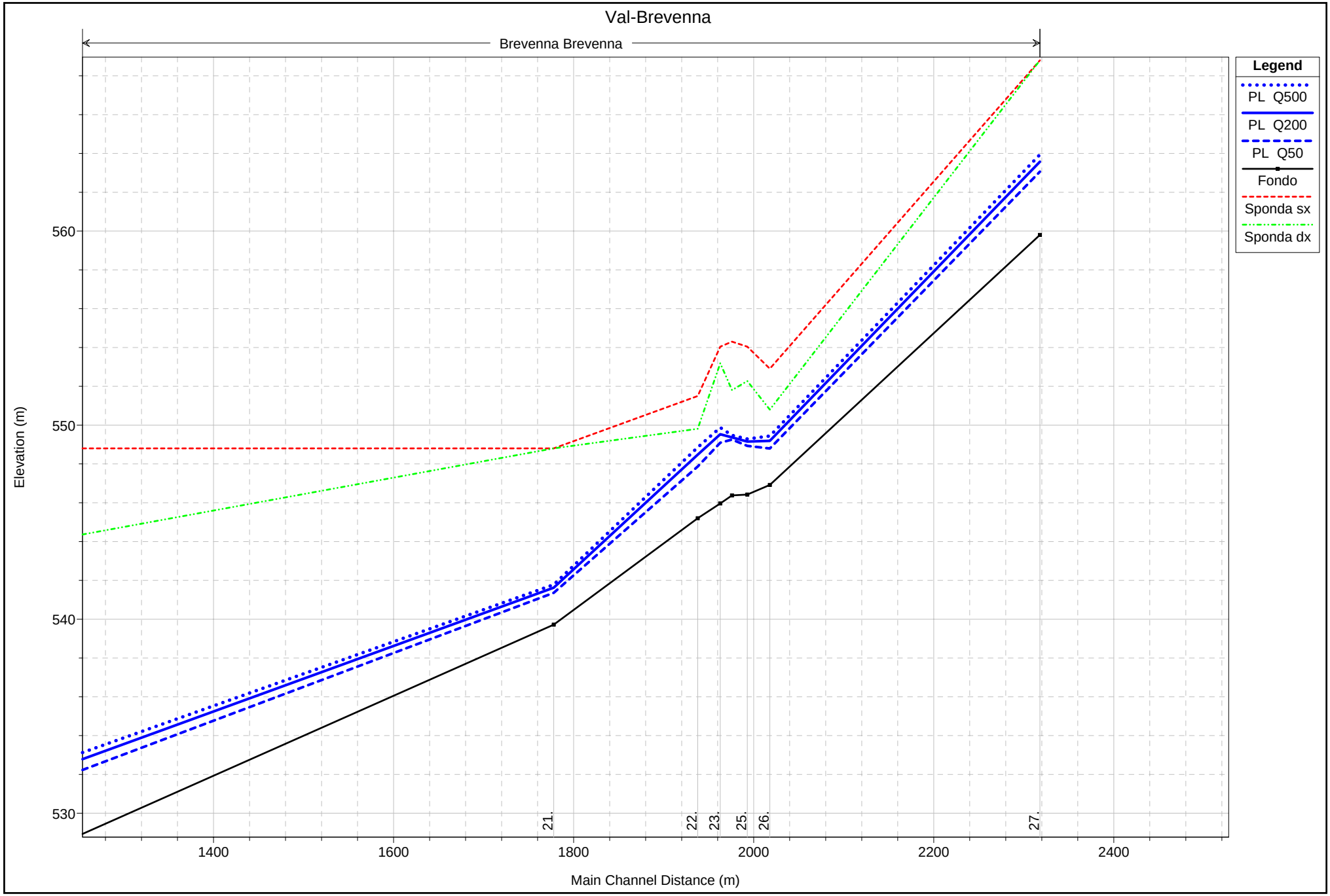

Laitona
River = Rio Laitona Reach = Rio Laitona 1
.04
Elevation (m)
426
424
422
420
418
416
0
10
20
30
40
50
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

HEC-RAS Plan: Rio Laitona River: Rio Laitona Reach: Rio Laitona

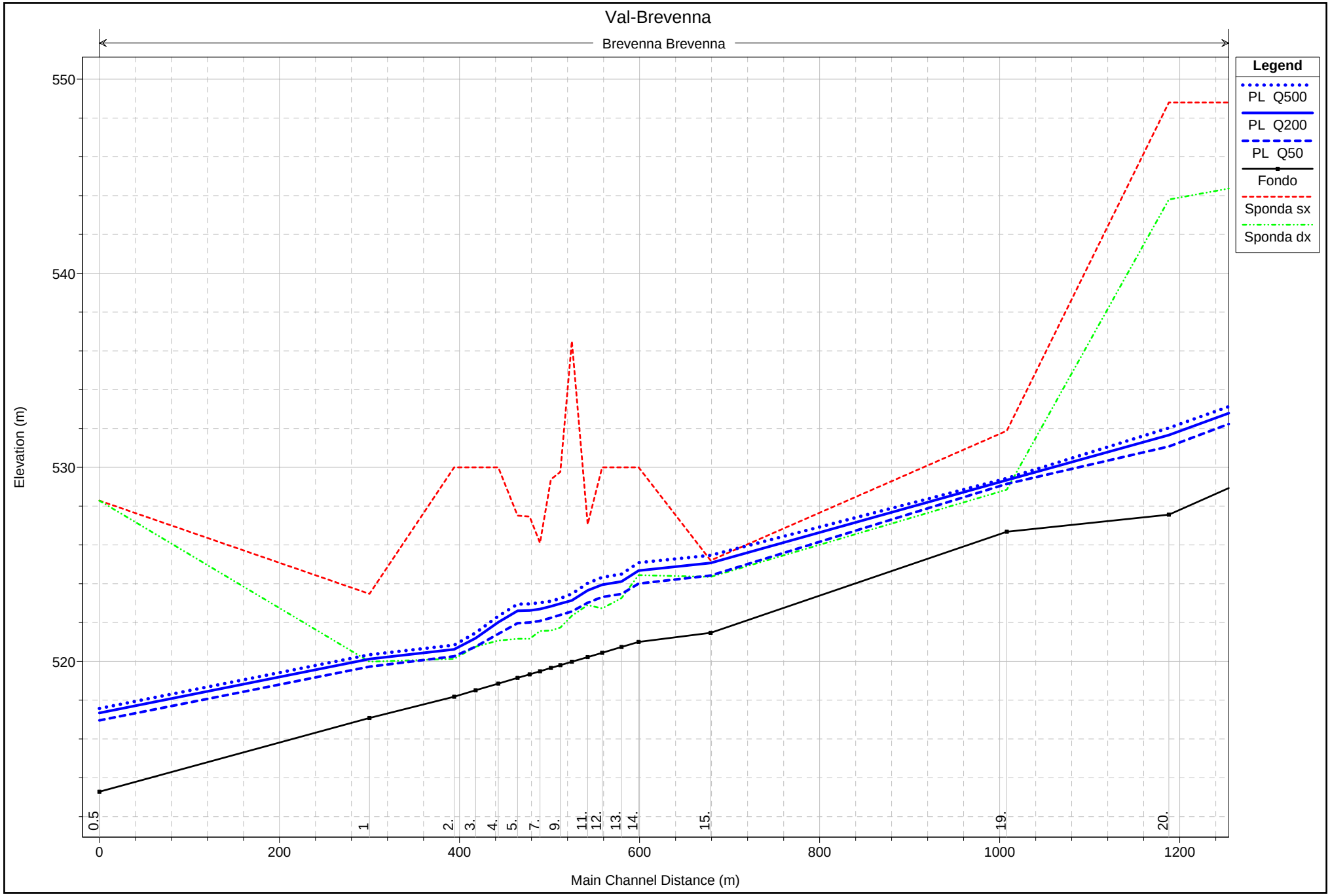
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio Laitona	7 7	Q50	248.00	418.78	423.11	425.29	2.18	420.00	-3.11	422.54	424.38	0.011391	5.00	49.64	12.48	0.80
Rio Laitona	7 7	Q200	341.00	418.78	424.03	425.29	1.26	420.00	-4.03	423.36	425.61	0.012062	5.56	61.28	12.62	0.81
Rio Laitona	7 7	Q500	402.00	418.78	424.58	425.29	0.71	420.00	-4.58	423.86	426.35	0.012550	5.89	68.20	12.70	0.81
Rio Laitona	6 6	Q50	248.00	418.43	422.19	423.22	1.03	420.01	-2.18	422.19	423.89	0.017171	5.79	42.85	12.59	1.00
Rio Laitona	6 6	Q200	341.00	418.43	423.00	423.22	0.22	420.01	-2.99	423.00	425.10	0.017810	6.42	53.10	12.75	1.00
Rio Laitona	6 6	Q500	402.00	418.43	423.51	423.22	-0.29	420.01	-3.50	423.51	425.82	0.017991	6.74	59.62	12.80	1.00
Rio Laitona	5 5	Q50	248.00	418.31	422.51	420.98	-1.53	419.55	-2.96	421.54	423.37	0.006827	4.10	60.55	15.19	0.65
Rio Laitona	5 5	Q200	341.00	418.31	423.35	420.98	-2.37	419.55	-3.80	422.25	424.45	0.007570	4.66	73.19	15.19	0.68
Rio Laitona	5 5	Q500	402.00	418.31	423.80	420.98	-2.82	419.55	-4.25	422.68	425.08	0.008185	5.02	80.14	15.19	0.70
Rio Laitona	4 4	Q50	248.00	417.54	421.41	419.13	-2.28	425.00	3.59	421.41	422.94	0.015072	5.48	45.28	14.88	1.00
Rio Laitona	4 4	Q200	341.00	417.54	422.18	419.13	-3.05	425.00	2.82	422.18	424.00	0.015070	5.97	57.07	15.87	1.01
Rio Laitona	4 4	Q500	402.00	417.54	422.65	419.13	-3.52	425.00	2.35	422.65	424.62	0.014939	6.22	64.61	16.47	1.00
Rio Laitona	3 3	Q50	248.00	417.71	420.12	420.18	0.06	425.00	4.88	420.83	422.49	0.042721	6.82	36.34	23.21	1.74
Rio Laitona	3 3	Q200	341.00	417.71	420.44	420.18	-0.26	425.00	4.56	421.36	423.50	0.045031	7.75	44.02	23.82	1.82
Rio Laitona	3 3	Q500	402.00	417.71	420.64	420.18	-0.46	425.00	4.36	421.68	424.10	0.045474	8.23	48.84	24.06	1.84
Rio Laitona	2 2	Q50	248.00	417.51	420.96	425.10	4.14	425.10	4.14	420.38	421.56	0.006270	3.43	72.21	29.17	0.70
Rio Laitona	2 2	Q200	341.00	417.51	420.26	425.10	4.84	425.10	4.84	420.87	422.42	0.031304	6.51	52.40	27.51	1.51
Rio Laitona	2 2	Q500	402.00	417.51	420.42	425.10	4.68	425.10	4.68	421.17	422.97	0.033885	7.07	56.87	27.89	1.58
Rio Laitona	1 1	Q50	248.00	416.58	420.50	425.00	4.50	425.00	4.50	420.50	421.41	0.014811	4.23	58.67	32.24	1.00
Rio Laitona	1 1	Q200	341.00	416.58	420.94	425.00	4.06	425.00	4.06	420.94	422.05	0.014115	4.66	73.23	33.30	1.00
Rio Laitona	1 1	Q500	402.00	416.58	421.21	425.00	3.79	425.00	3.79	421.21	422.43	0.013731	4.89	82.28	33.95	1.00

Torrente Brevenna *(monte)*

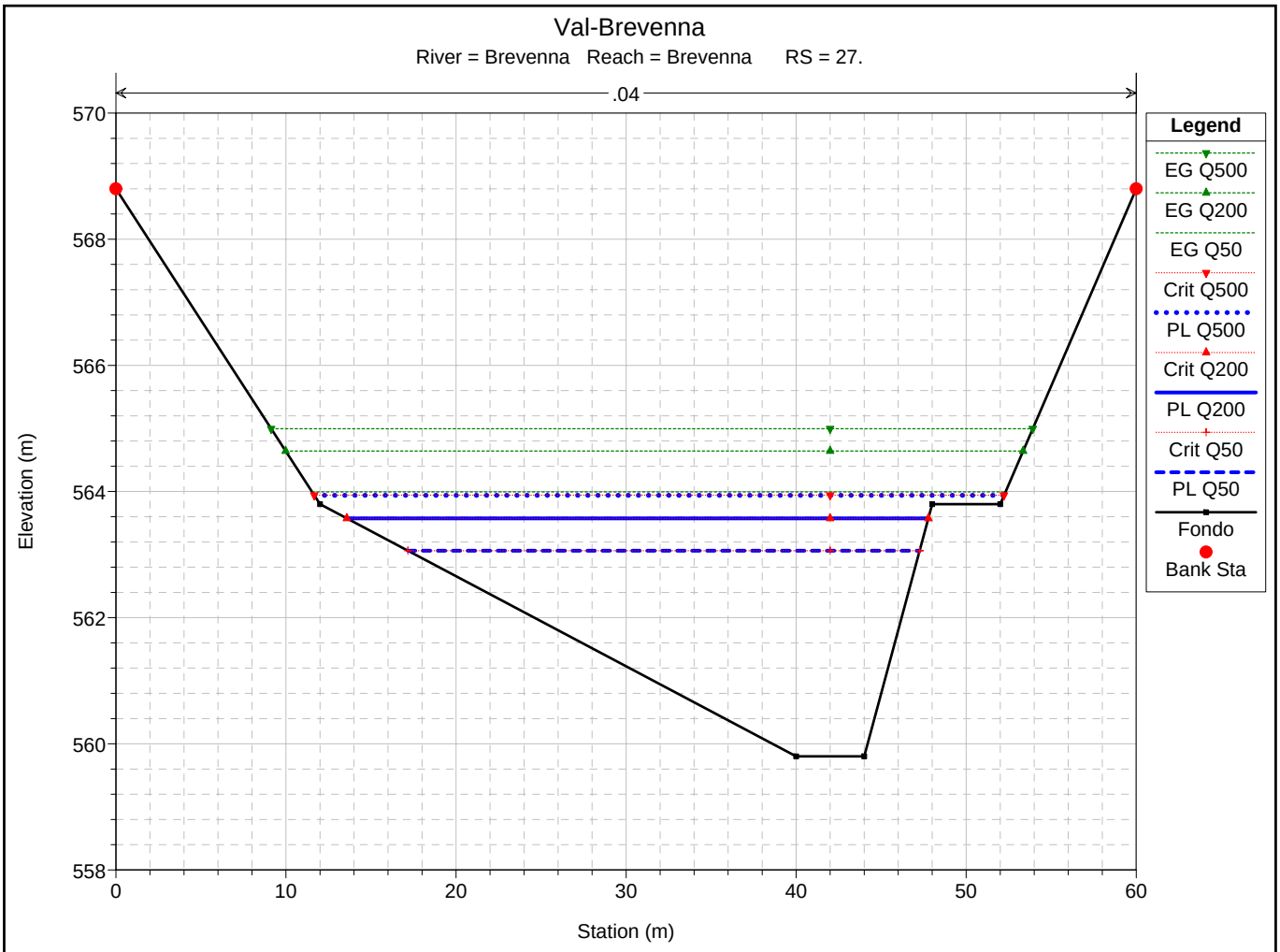
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

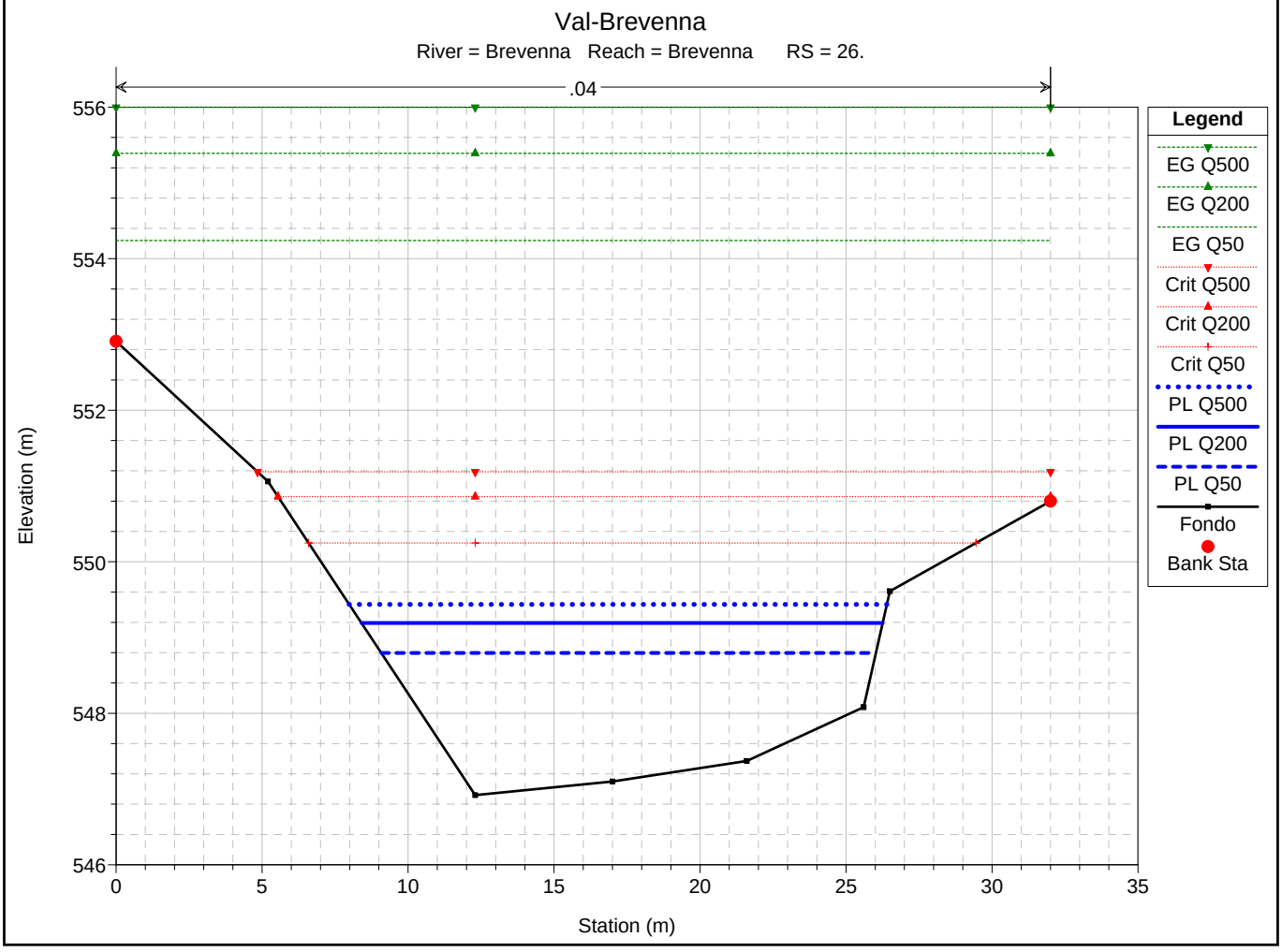


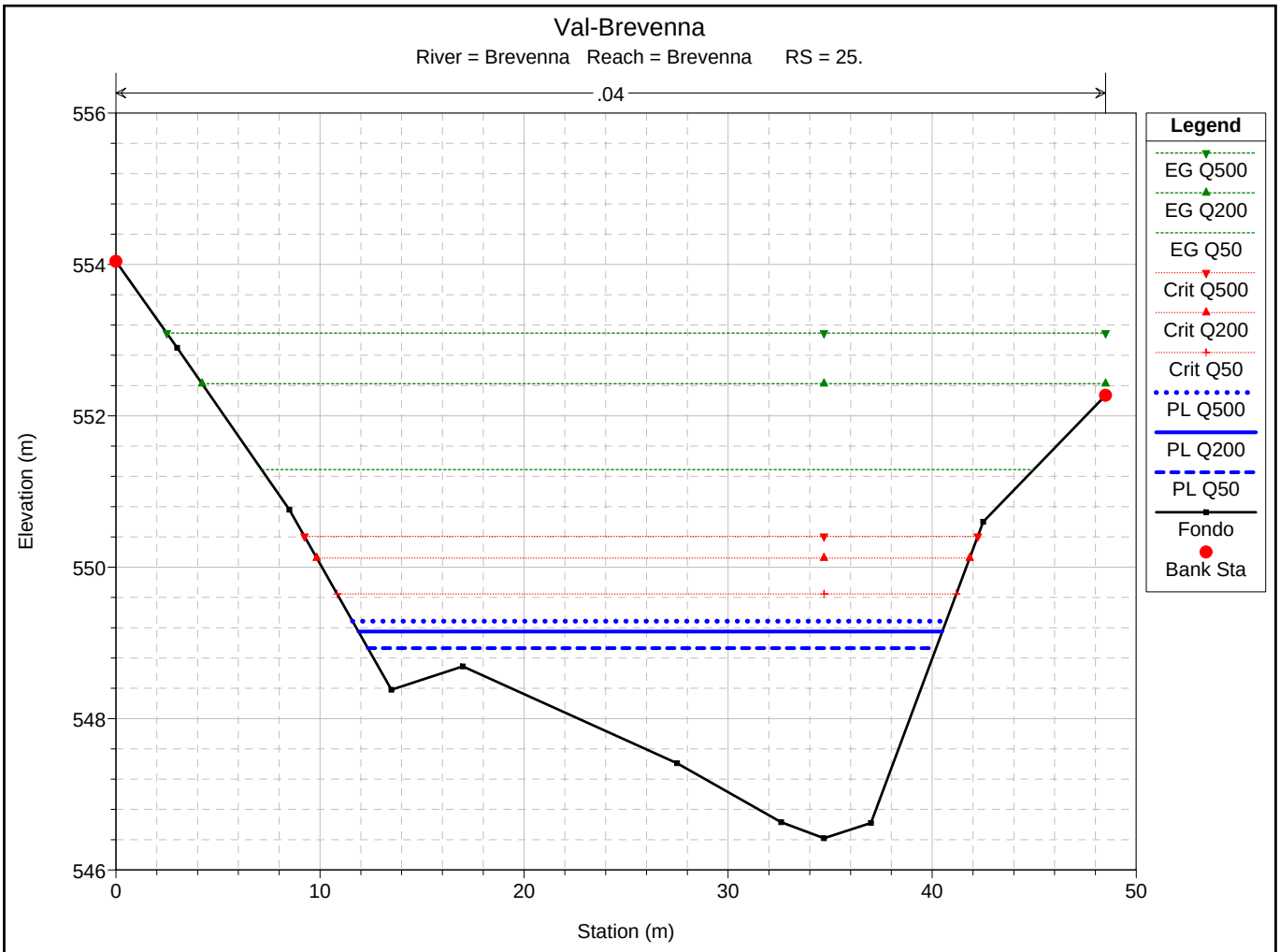
1 cm Horiz. = 55 m 1 cm Vert. = 2.55 m

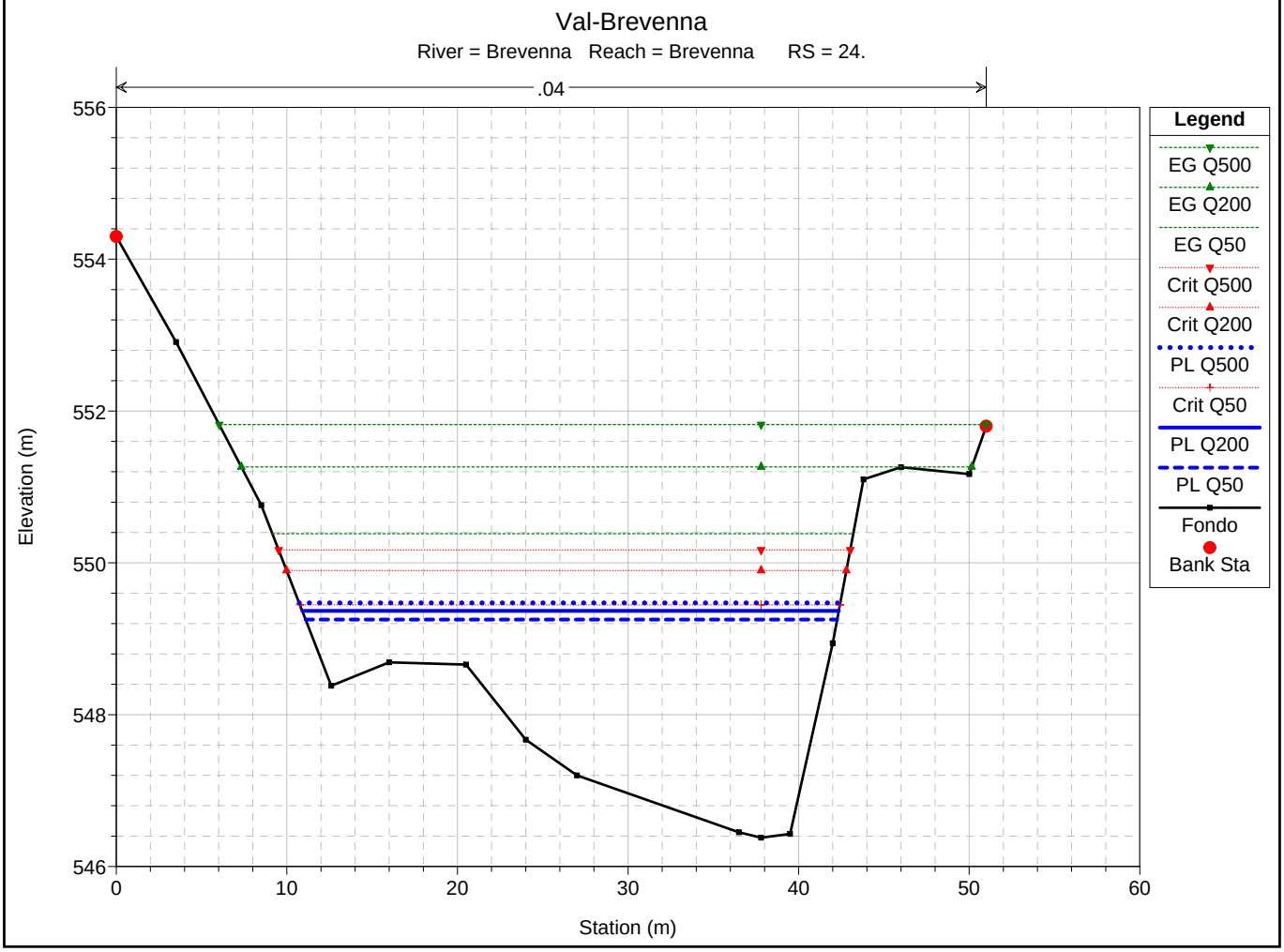


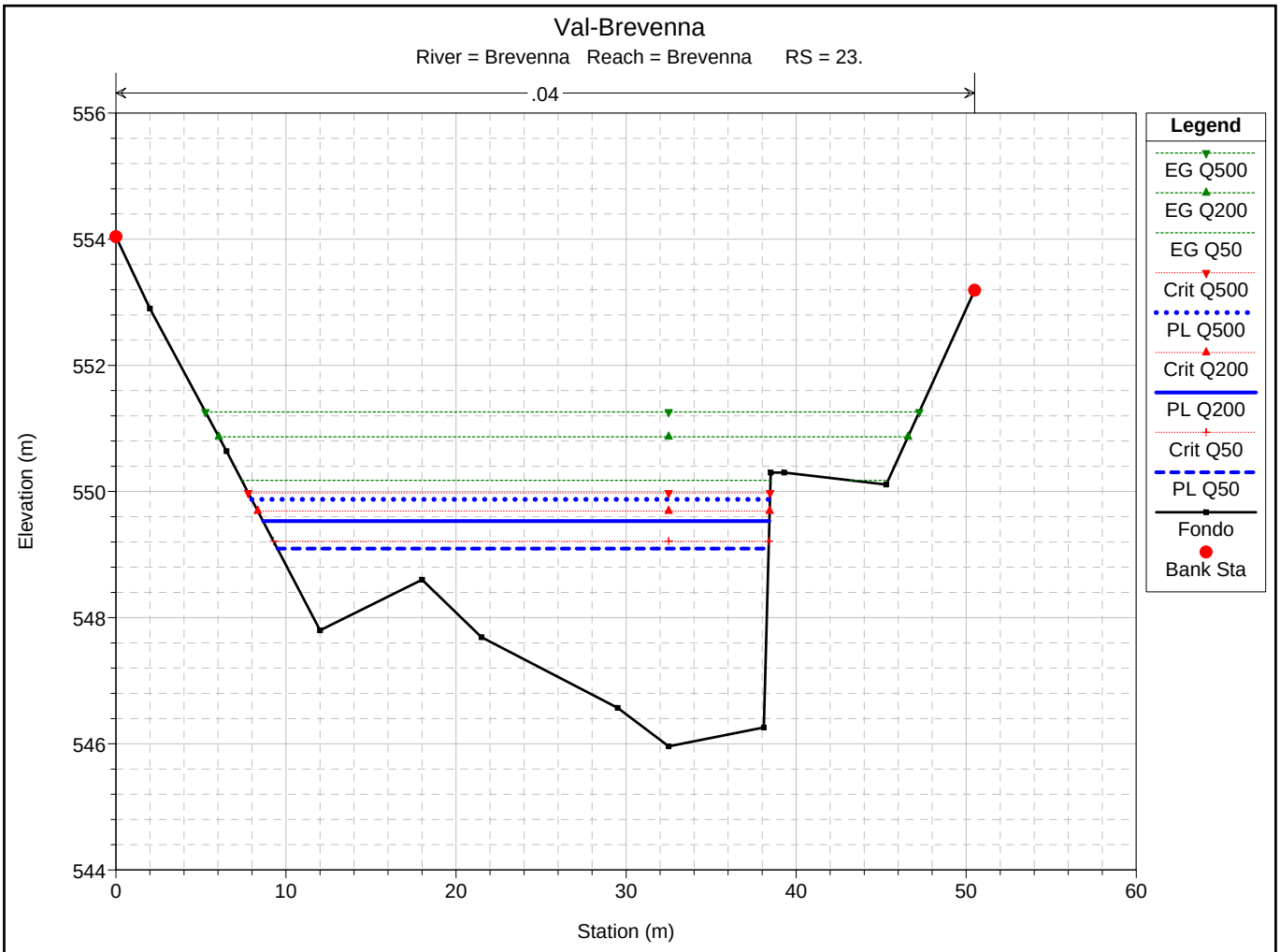
1 cm Horiz. = 55 m 1 cm Vert. = 2.55 m

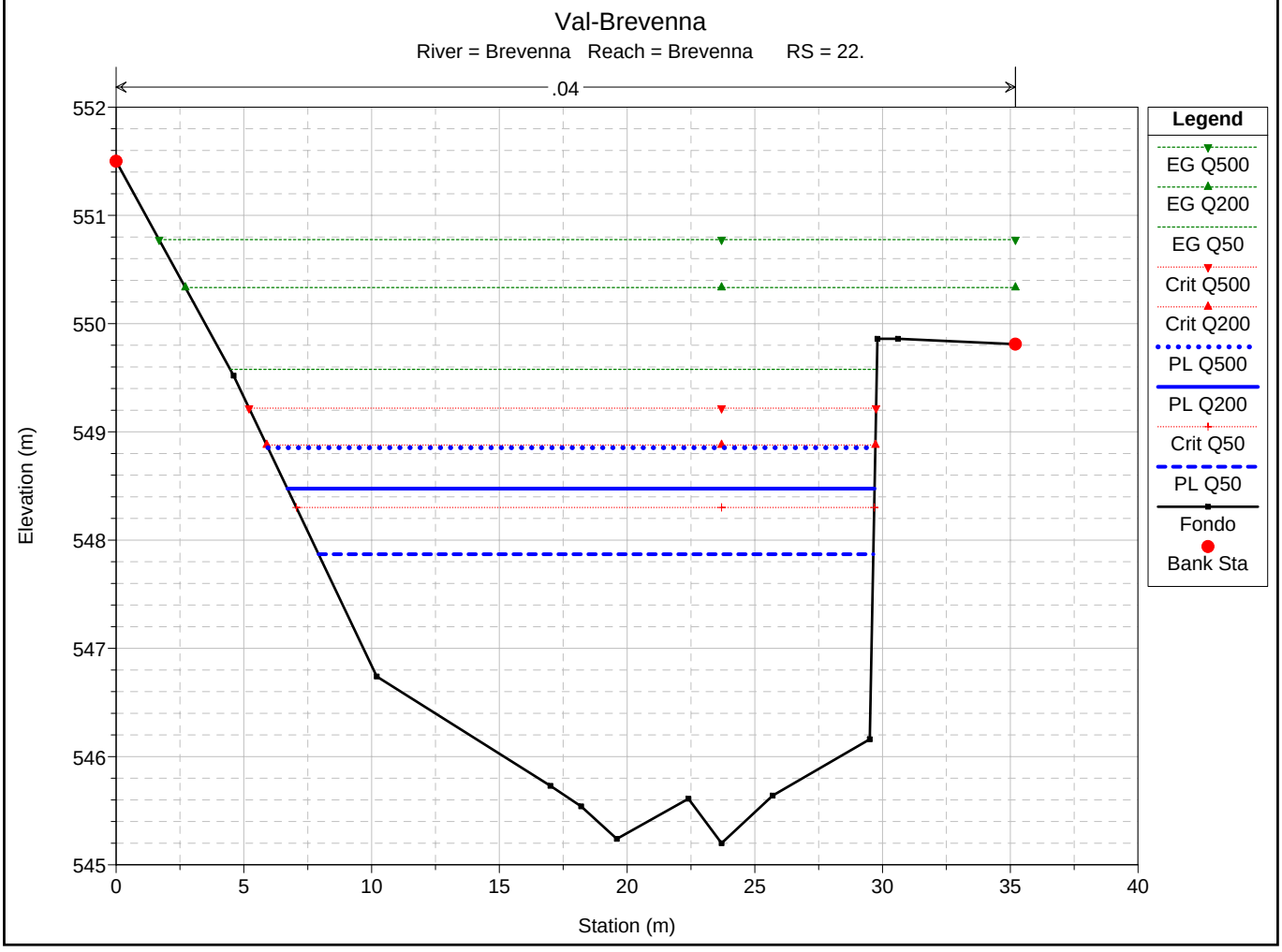

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 27.
.04
Elevation (m)
Station (m)
570
568
566
564
562
560
558
0
10
20
30
40
50
60
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

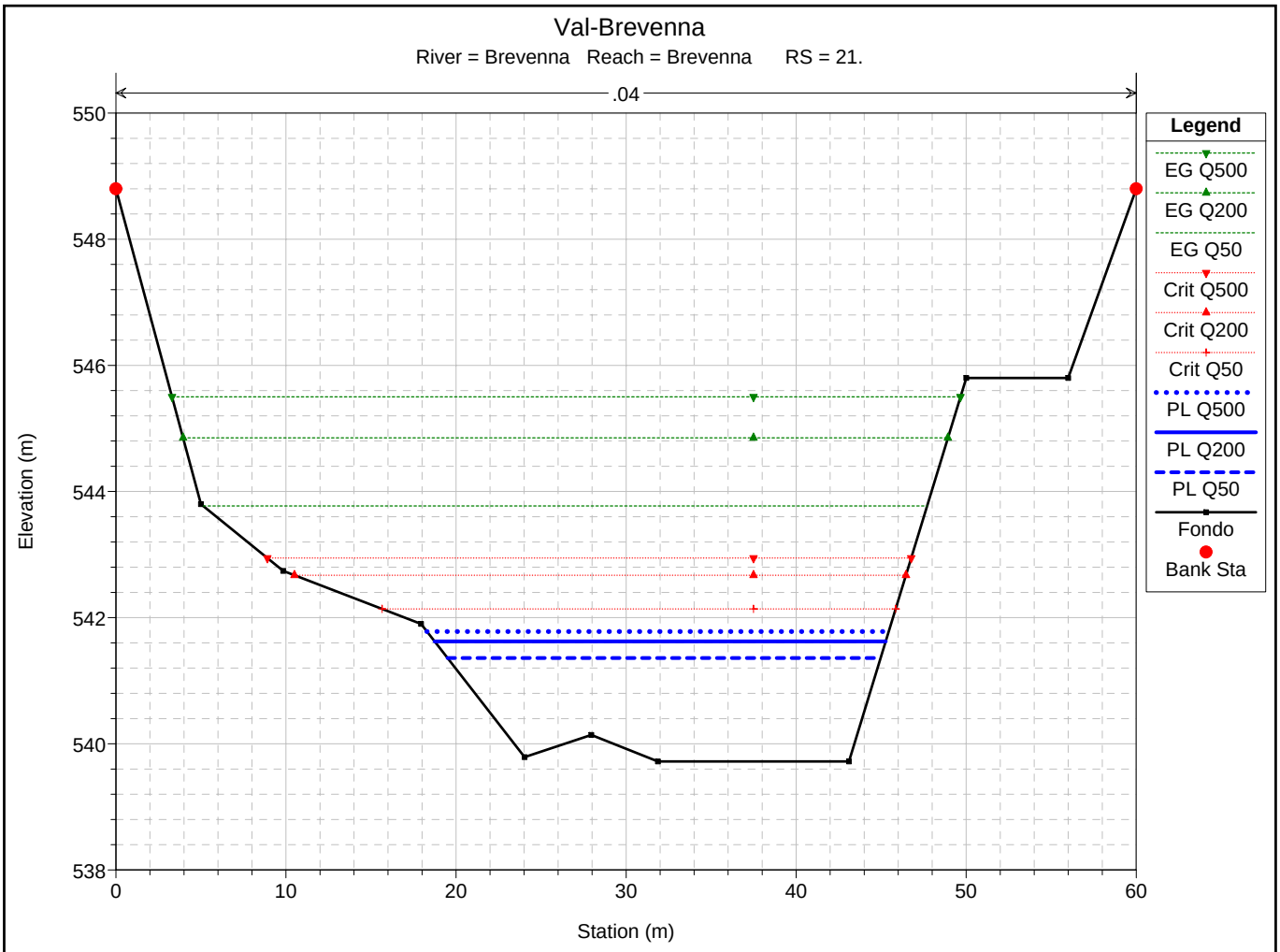

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 26.
.04
Elevation (m)
Station (m)
556
554
552
550
548
546
0
5
10
15
20
25
30
35
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

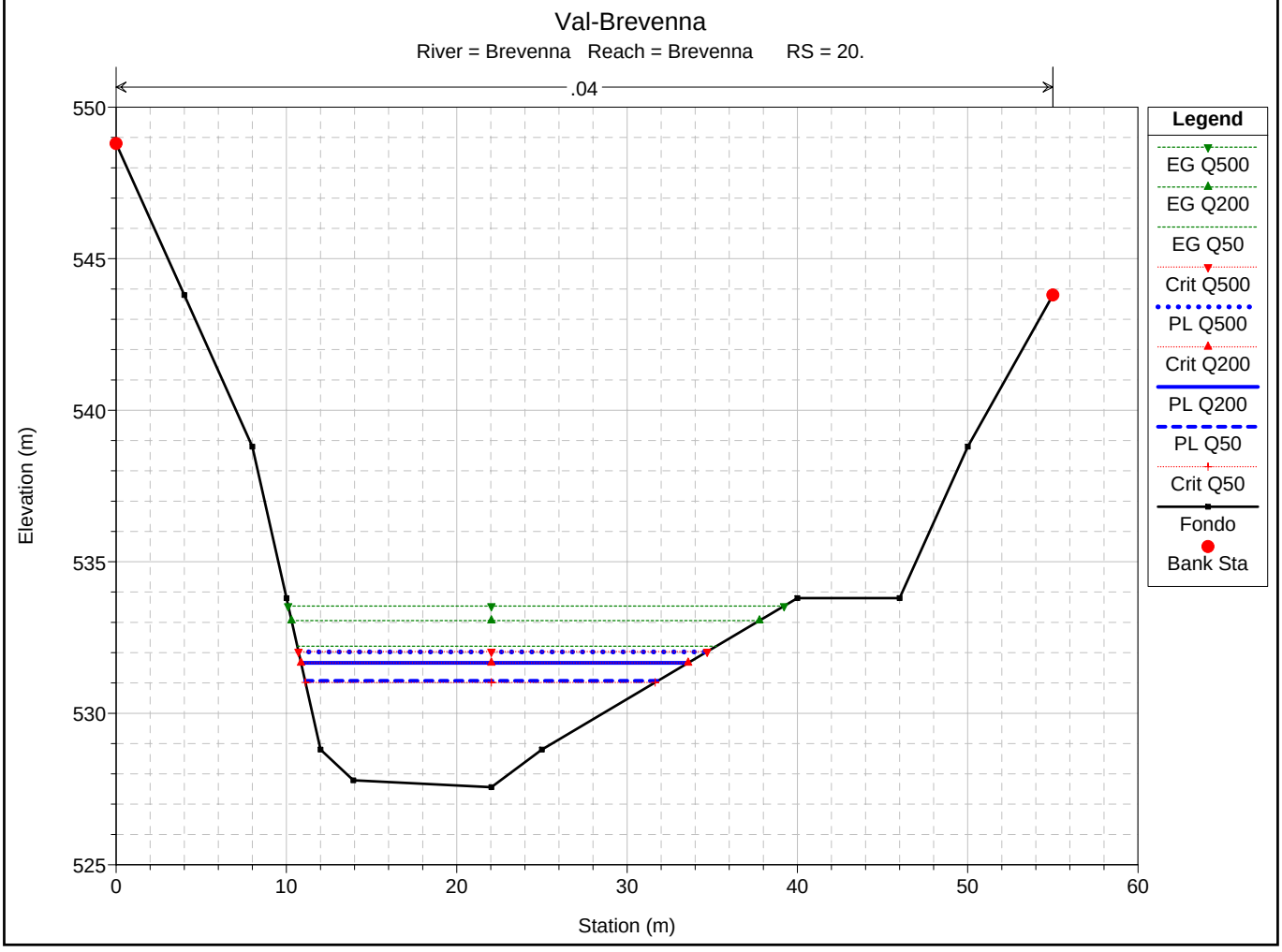

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 25.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

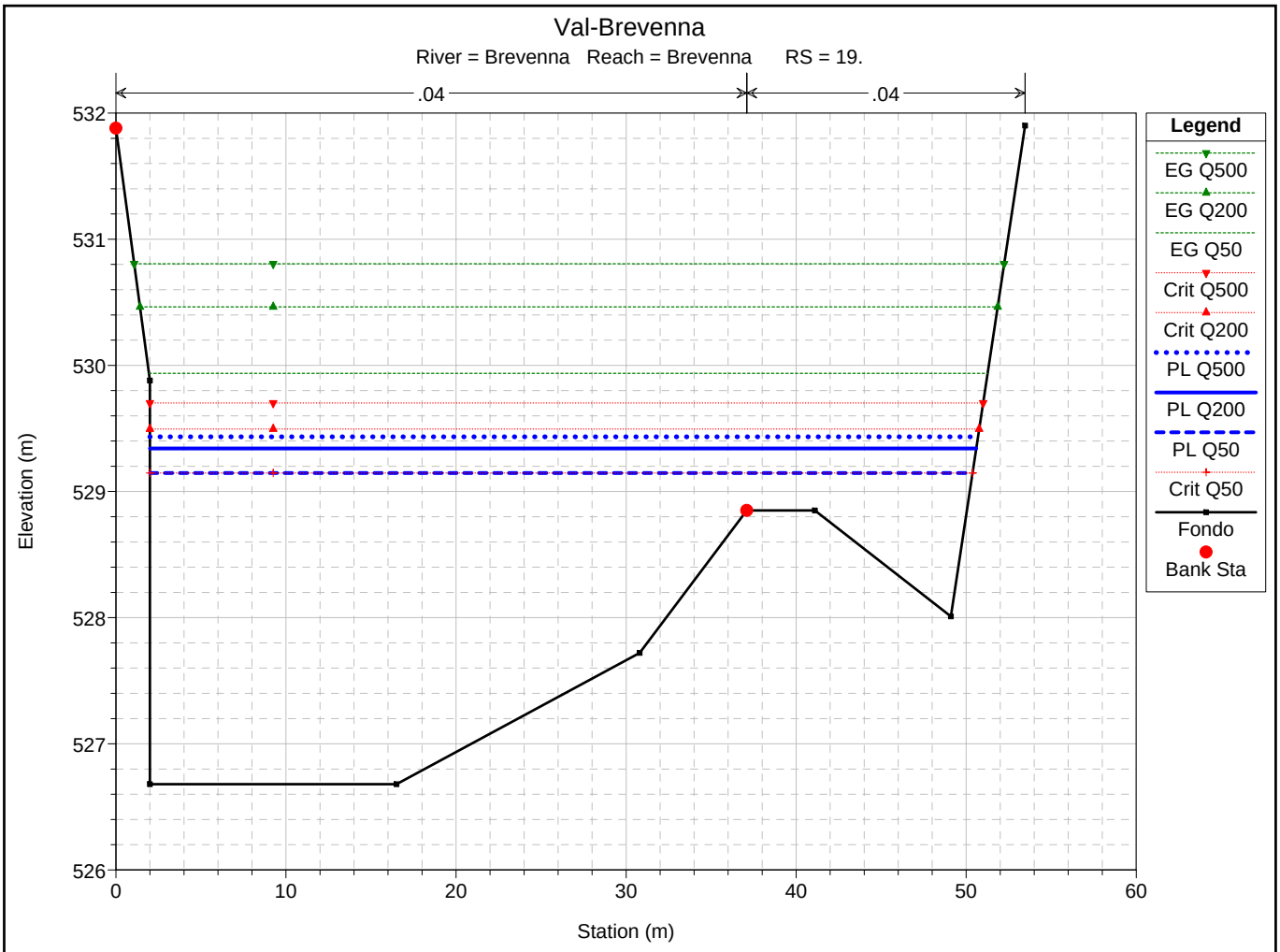

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 24.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

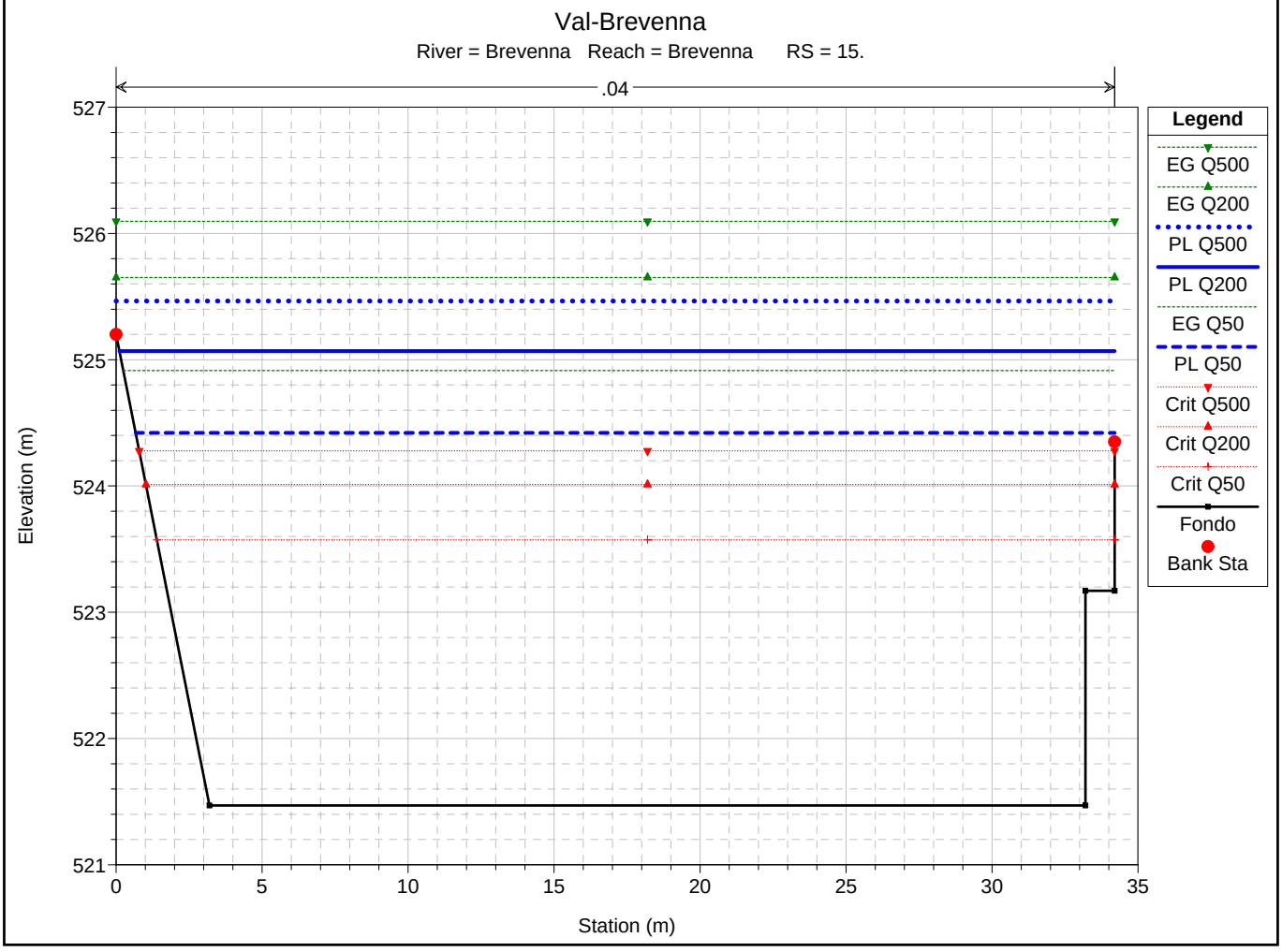

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 23.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

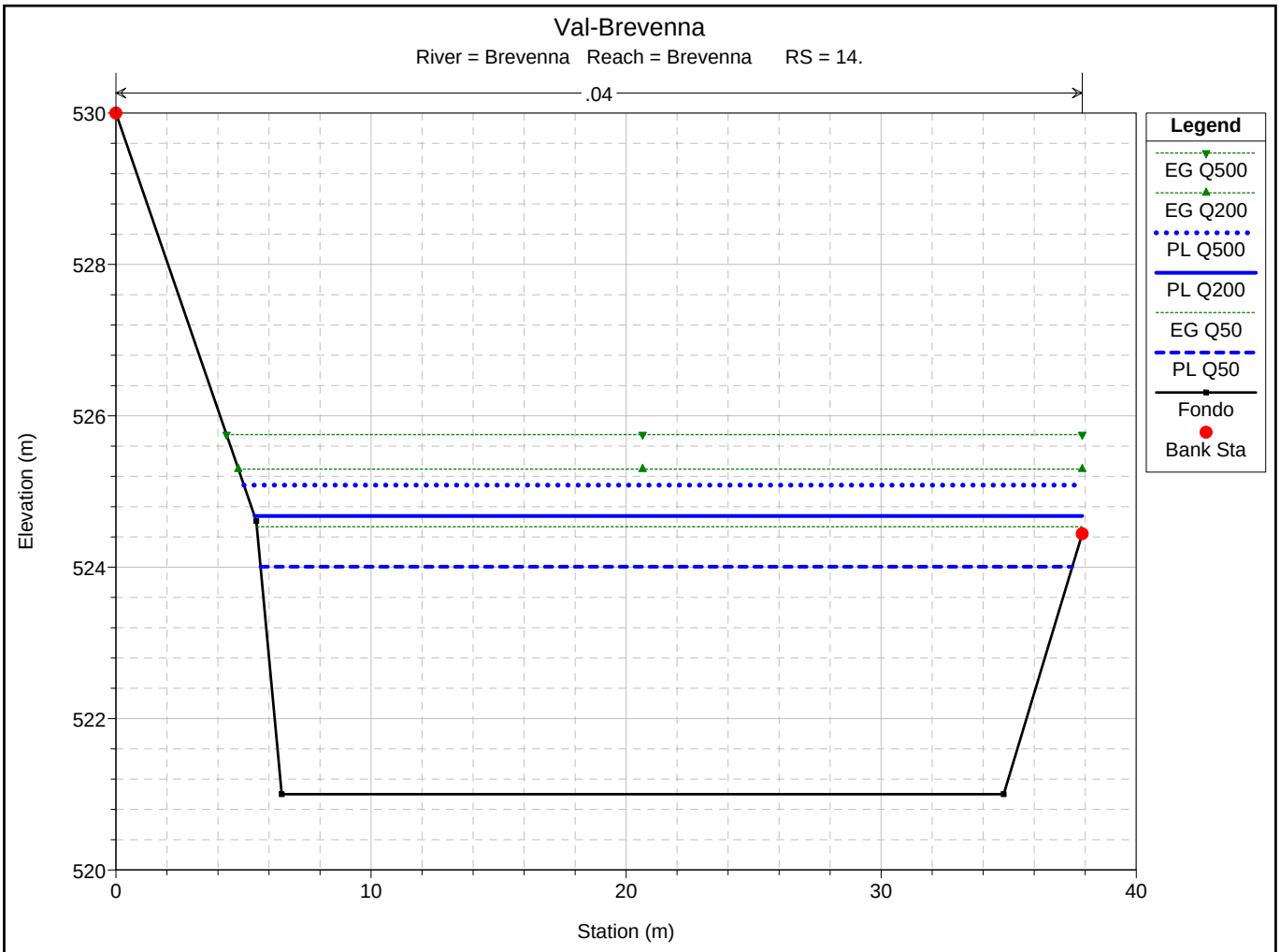

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 22.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

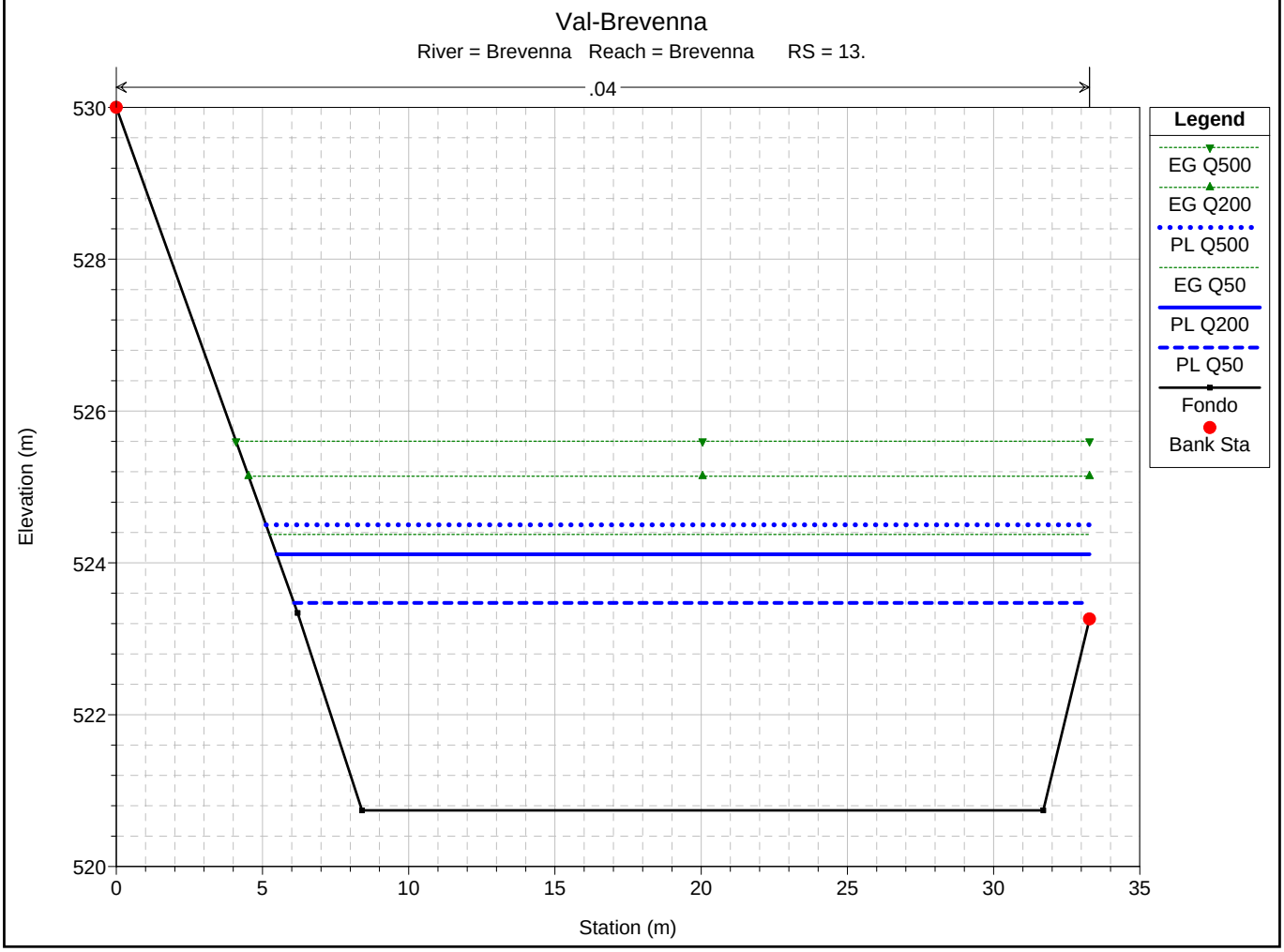

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 21.
.04
Elevation (m)
Station (m)
550
548
546
544
542
540
538
0
10
20
30
40
50
60
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

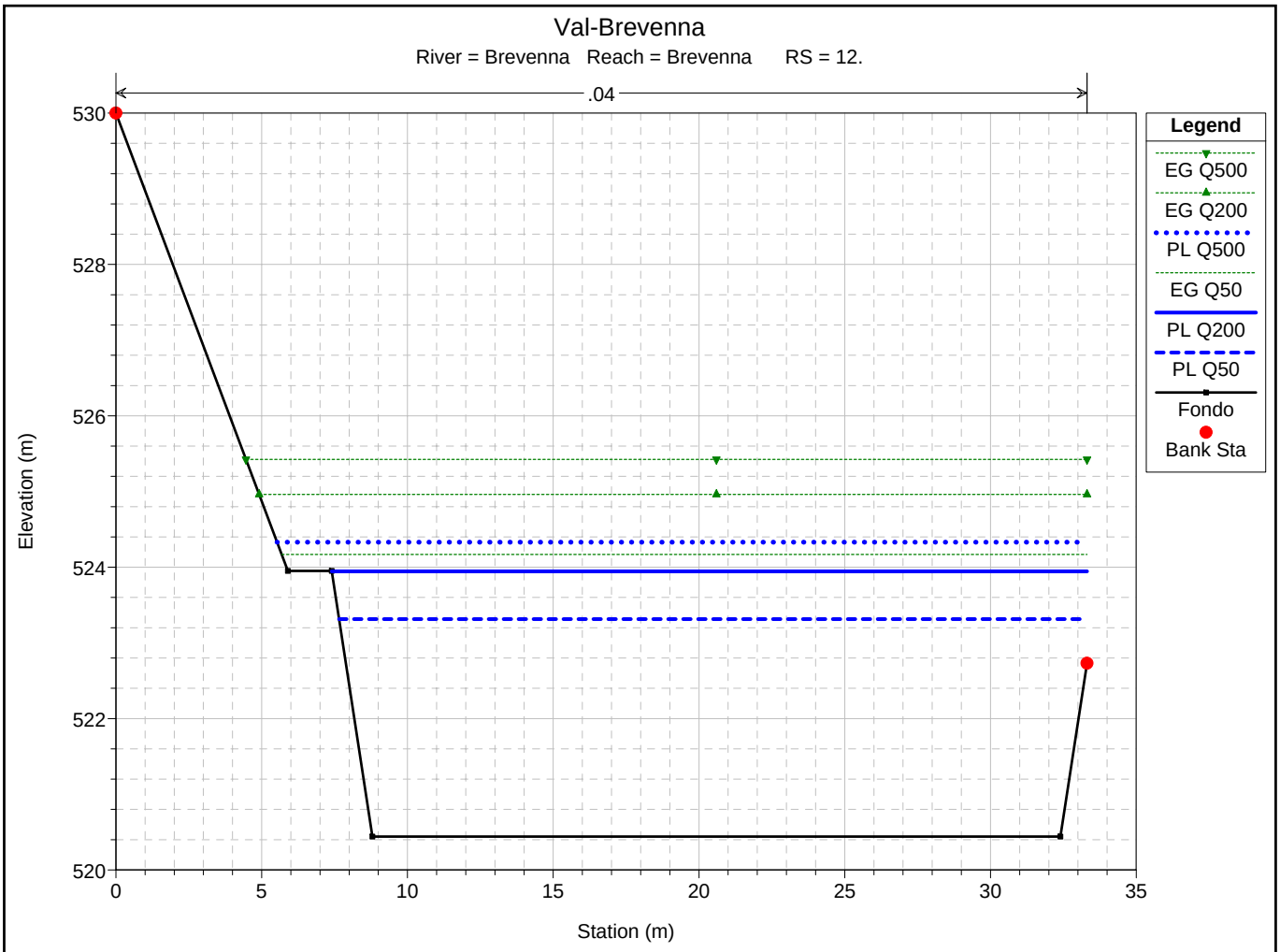

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 20.
.04
Elevation (m)
Station (m)
550
545
540
535
530
525
0
10
20
30
40
50
60
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

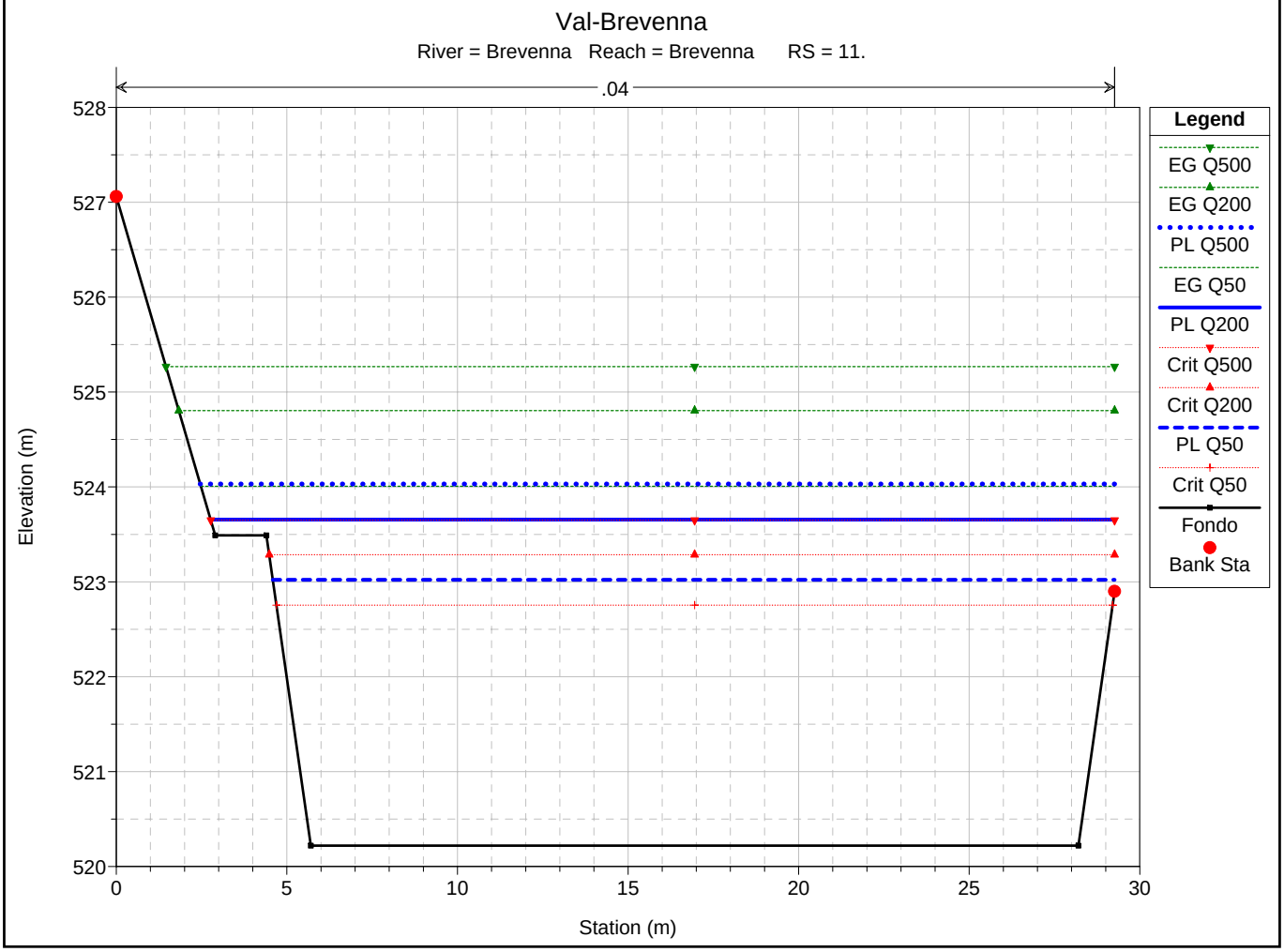

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 19.
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

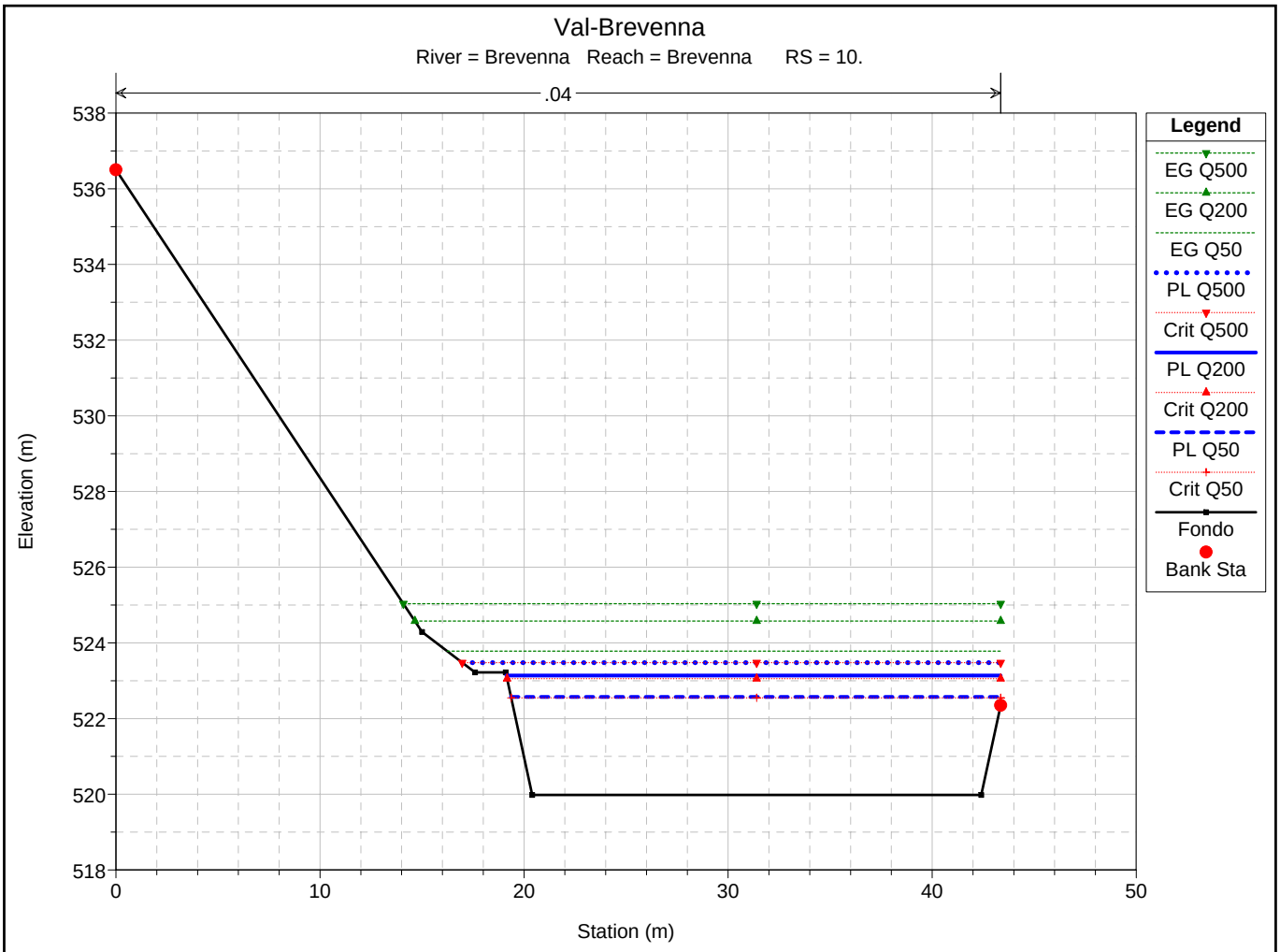

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 15.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

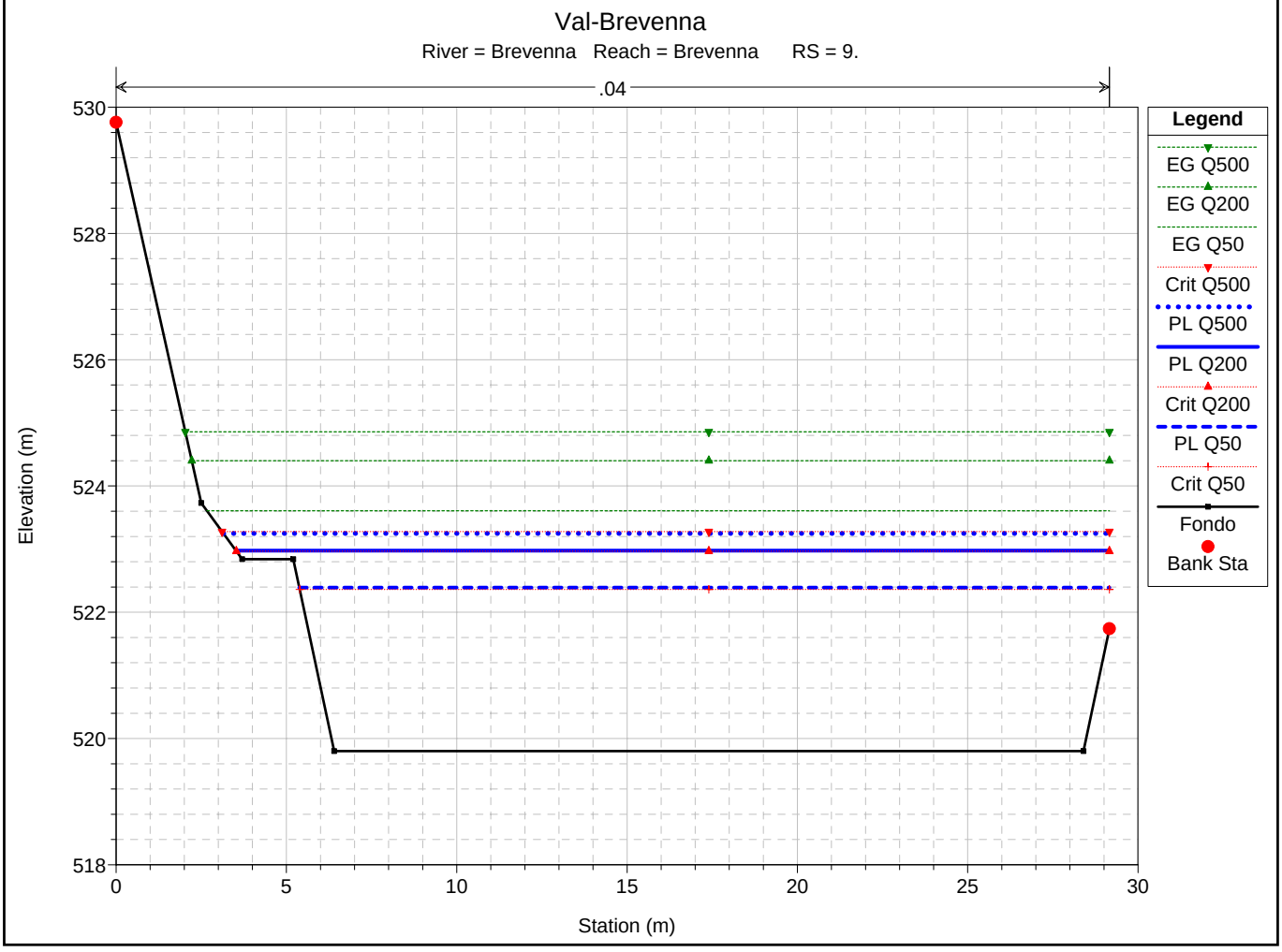

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 14.
.04
Elevation (m)
530
528
526
524
522
520
0
10
20
30
40
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Fondo
Bank Sta

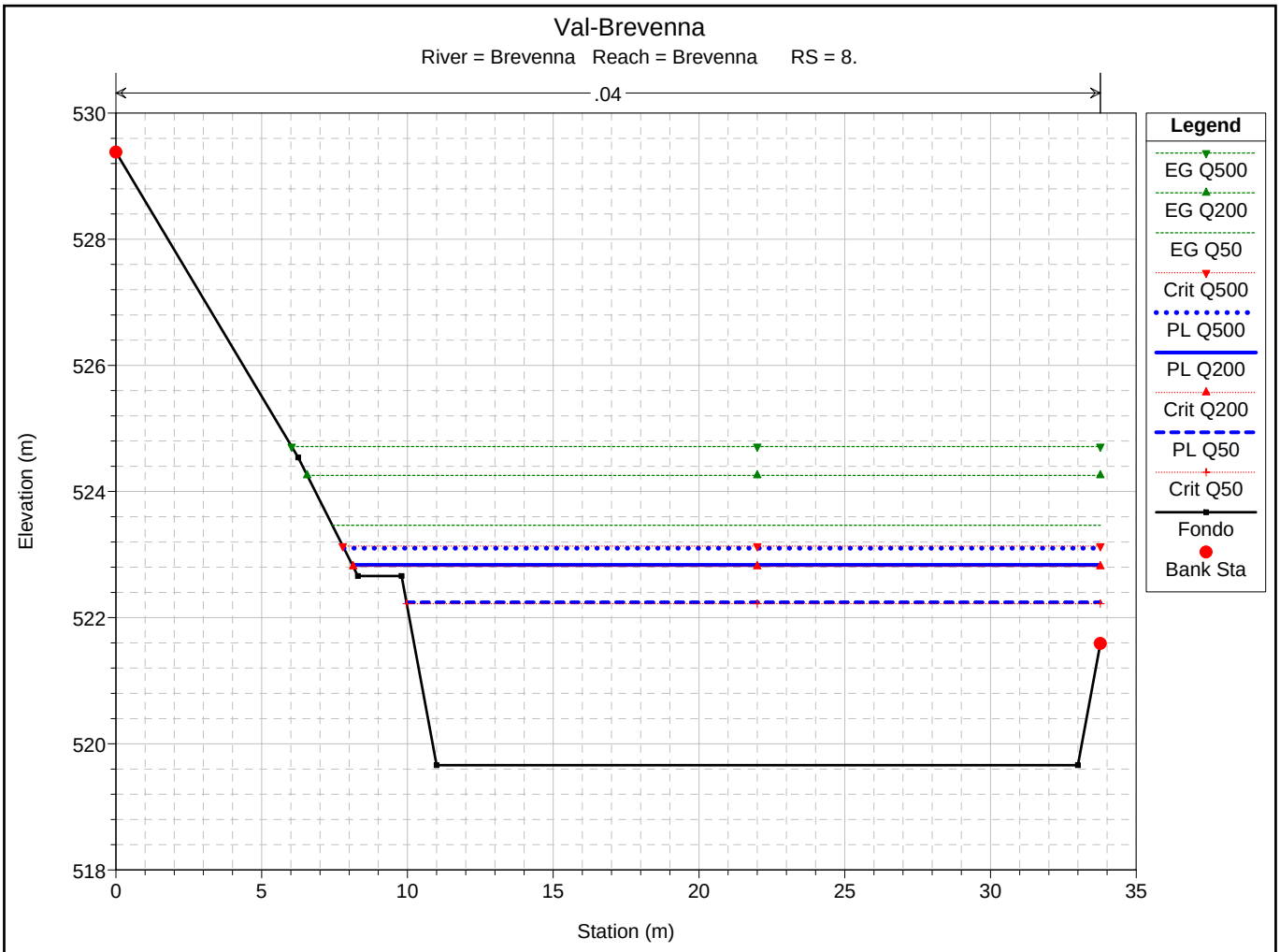

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 13.
.04
Elevation (m)
530
528
526
524
522
520
0
5
10
15
20
25
30
35
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Fondo
Bank Sta

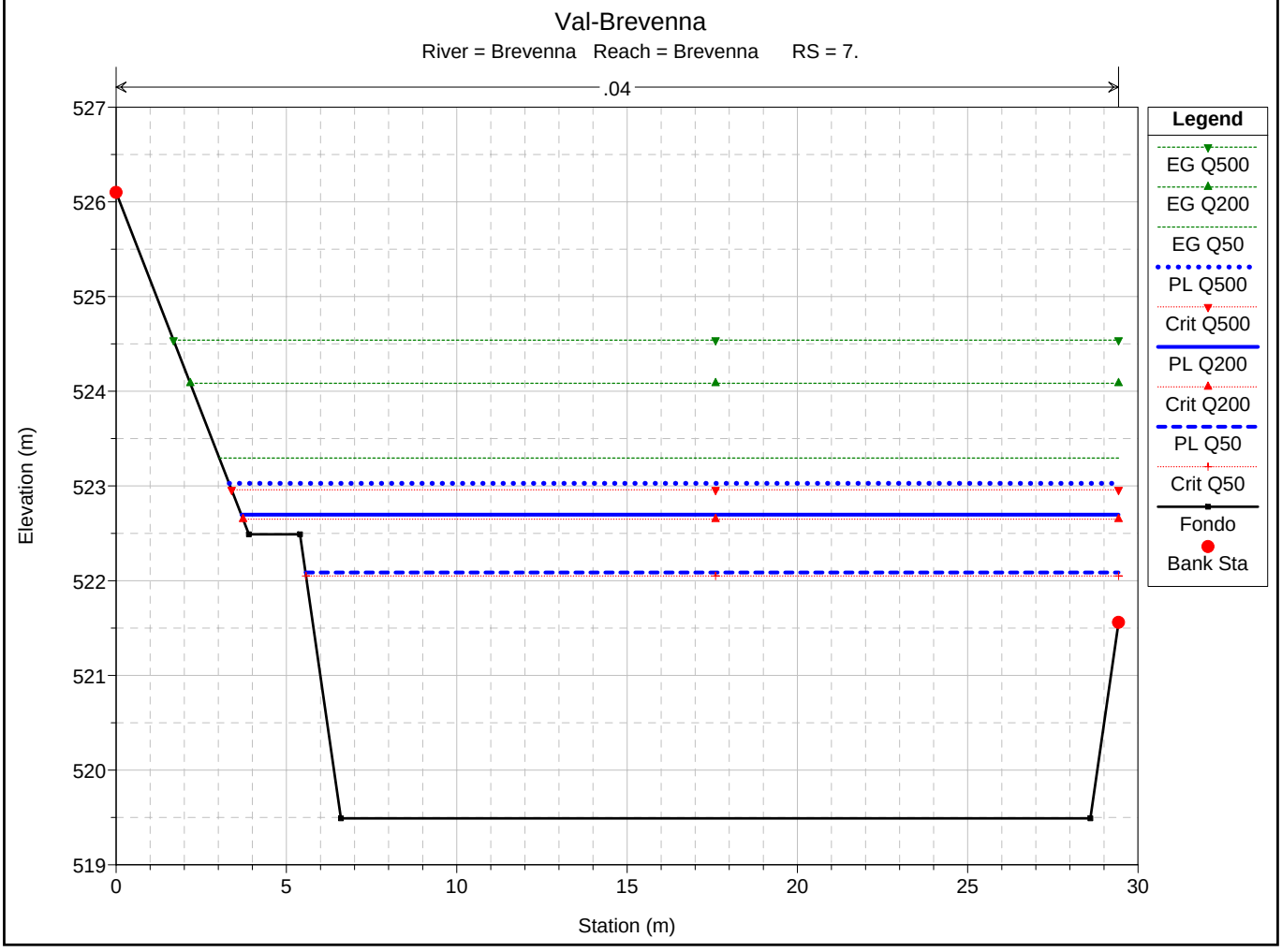

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 12.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Fondo
Bank Sta

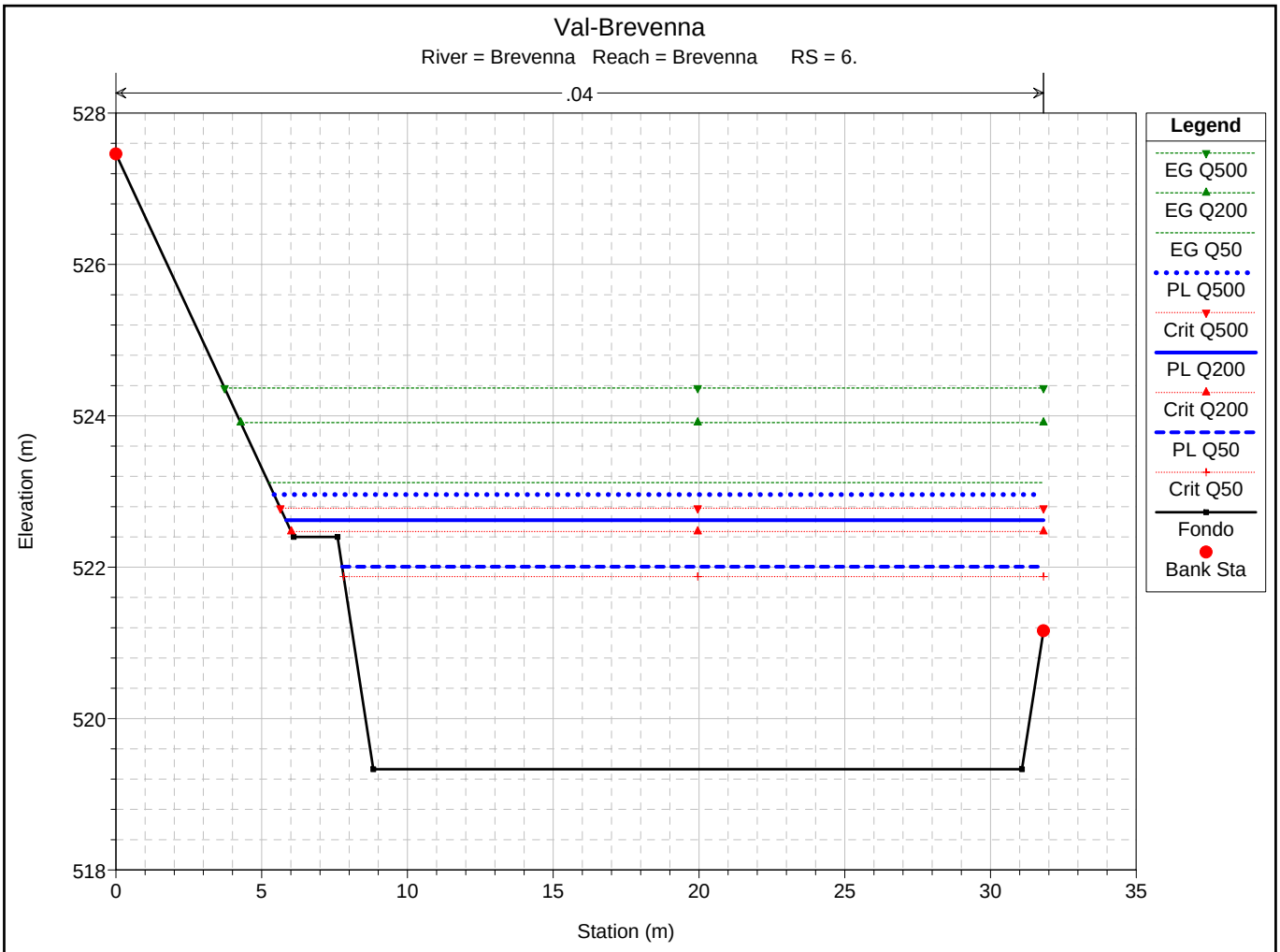

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 11.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

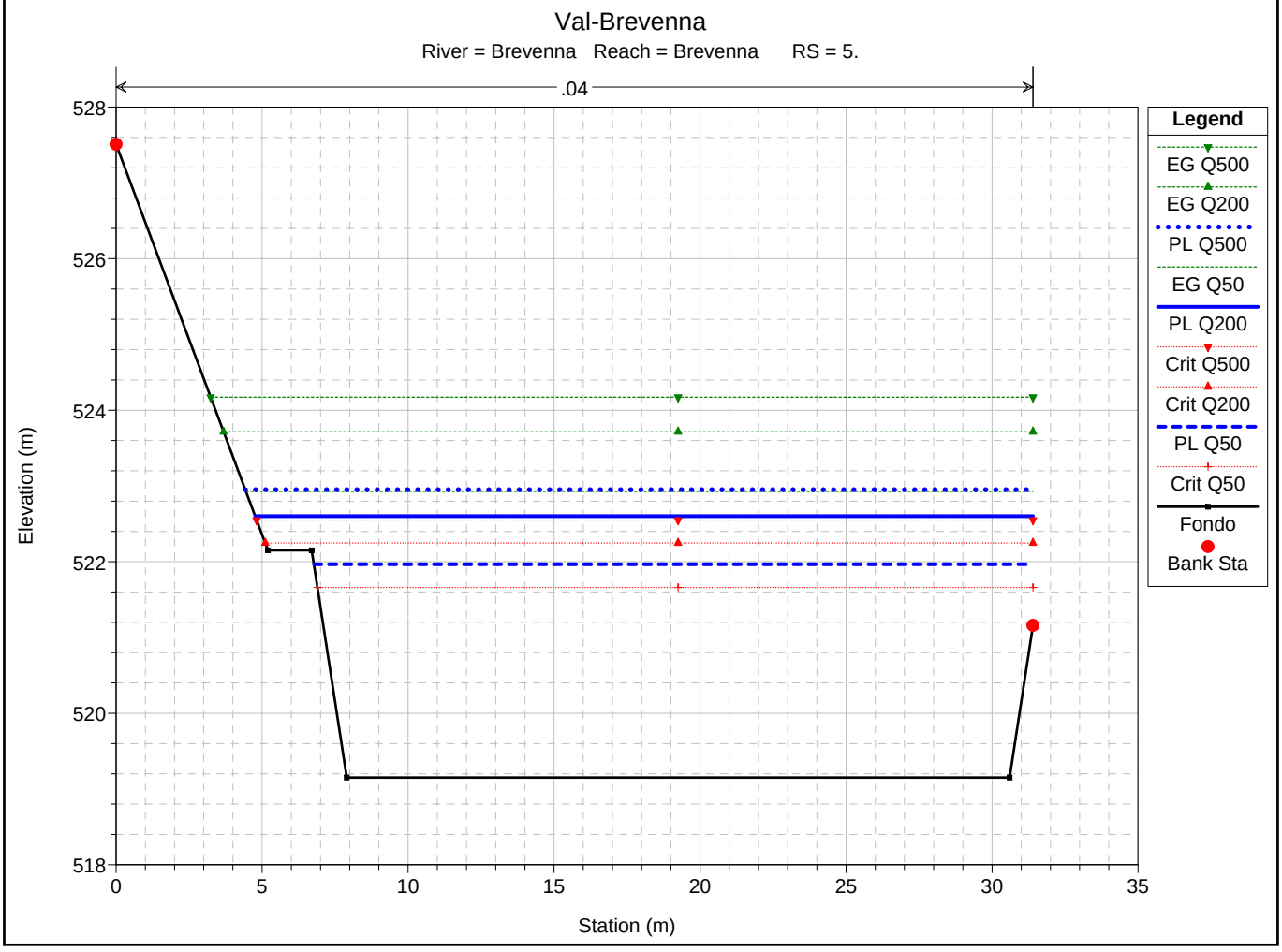

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 10.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

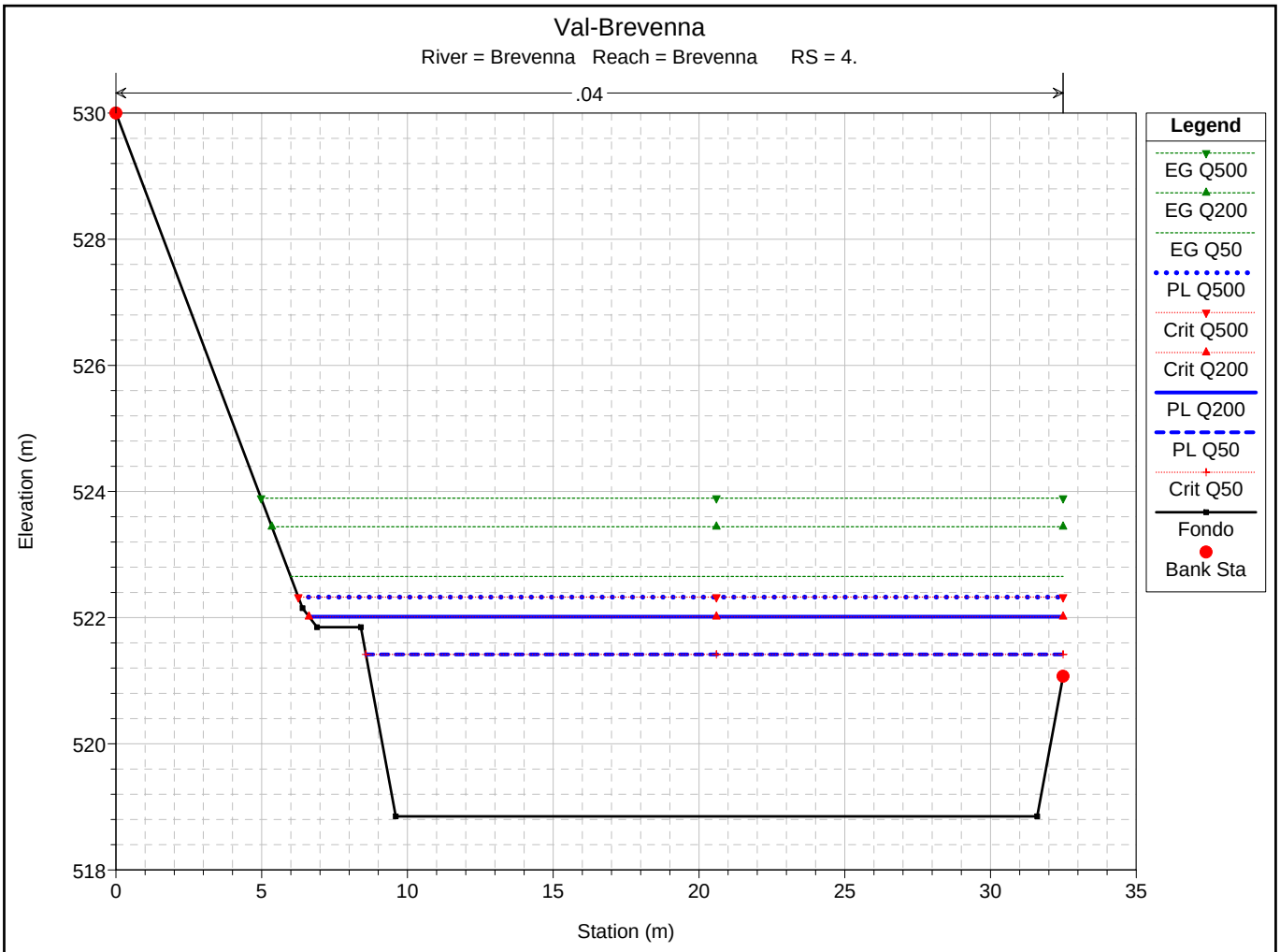

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 9.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

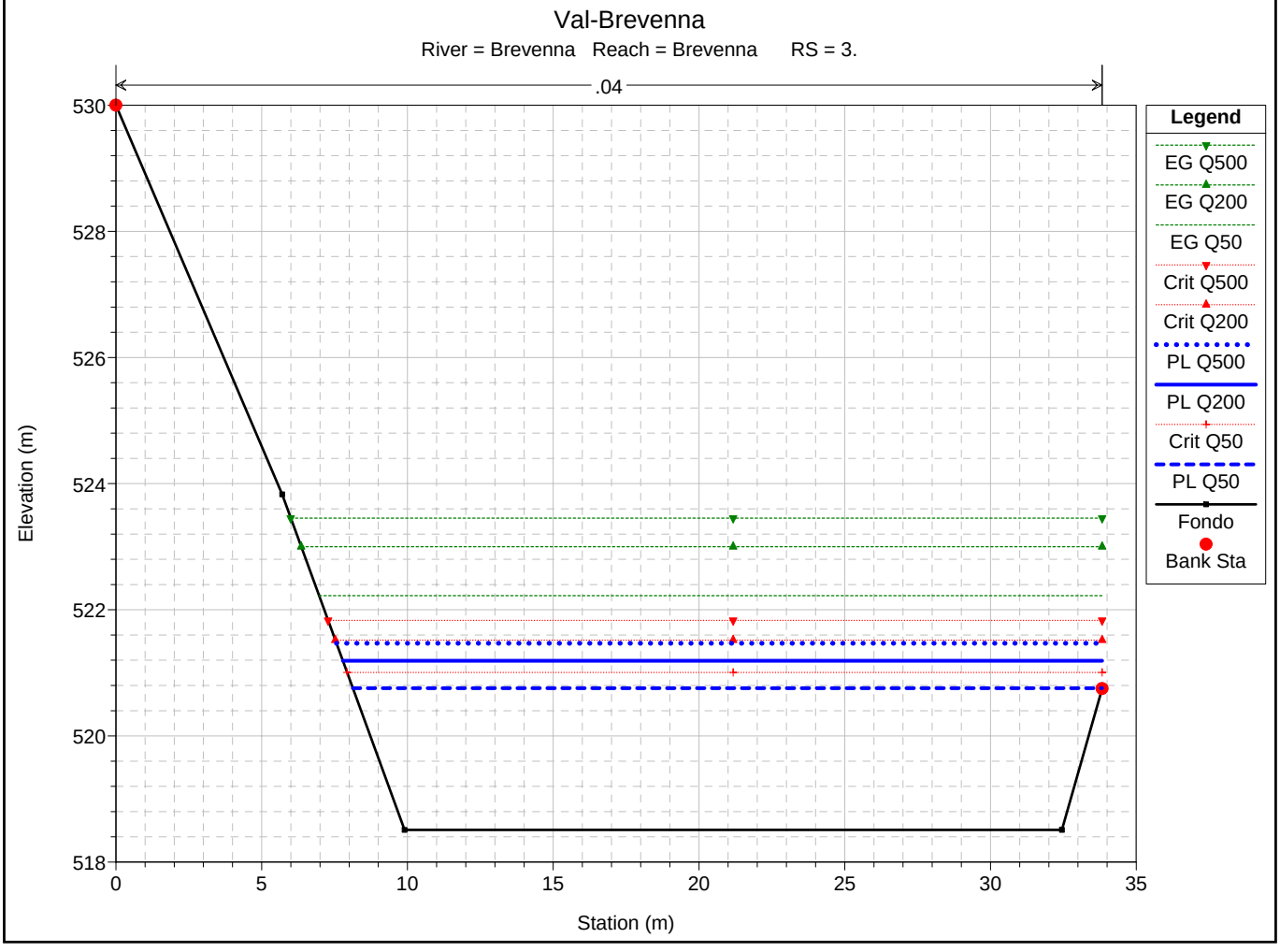

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 8.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

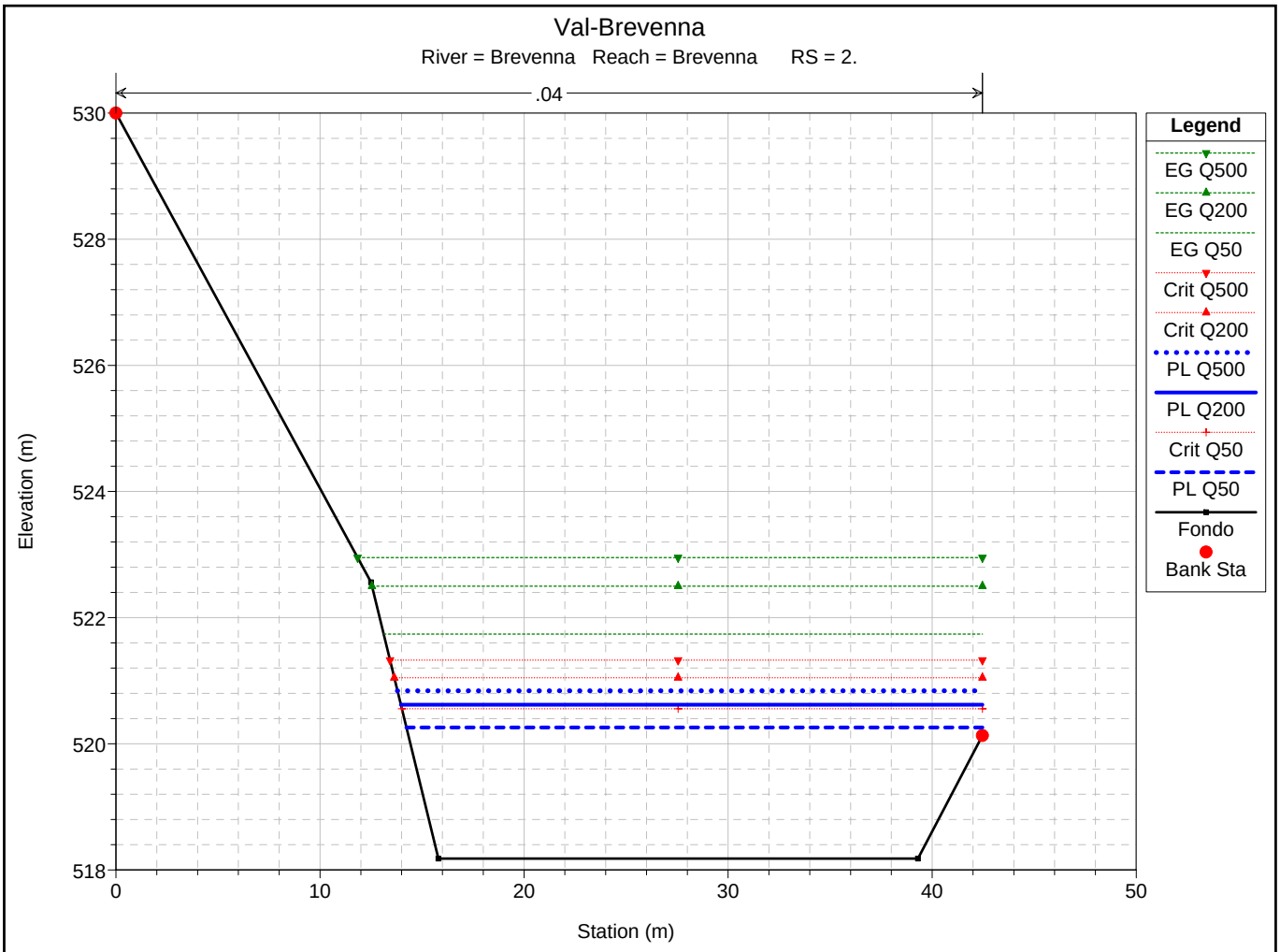

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 7.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

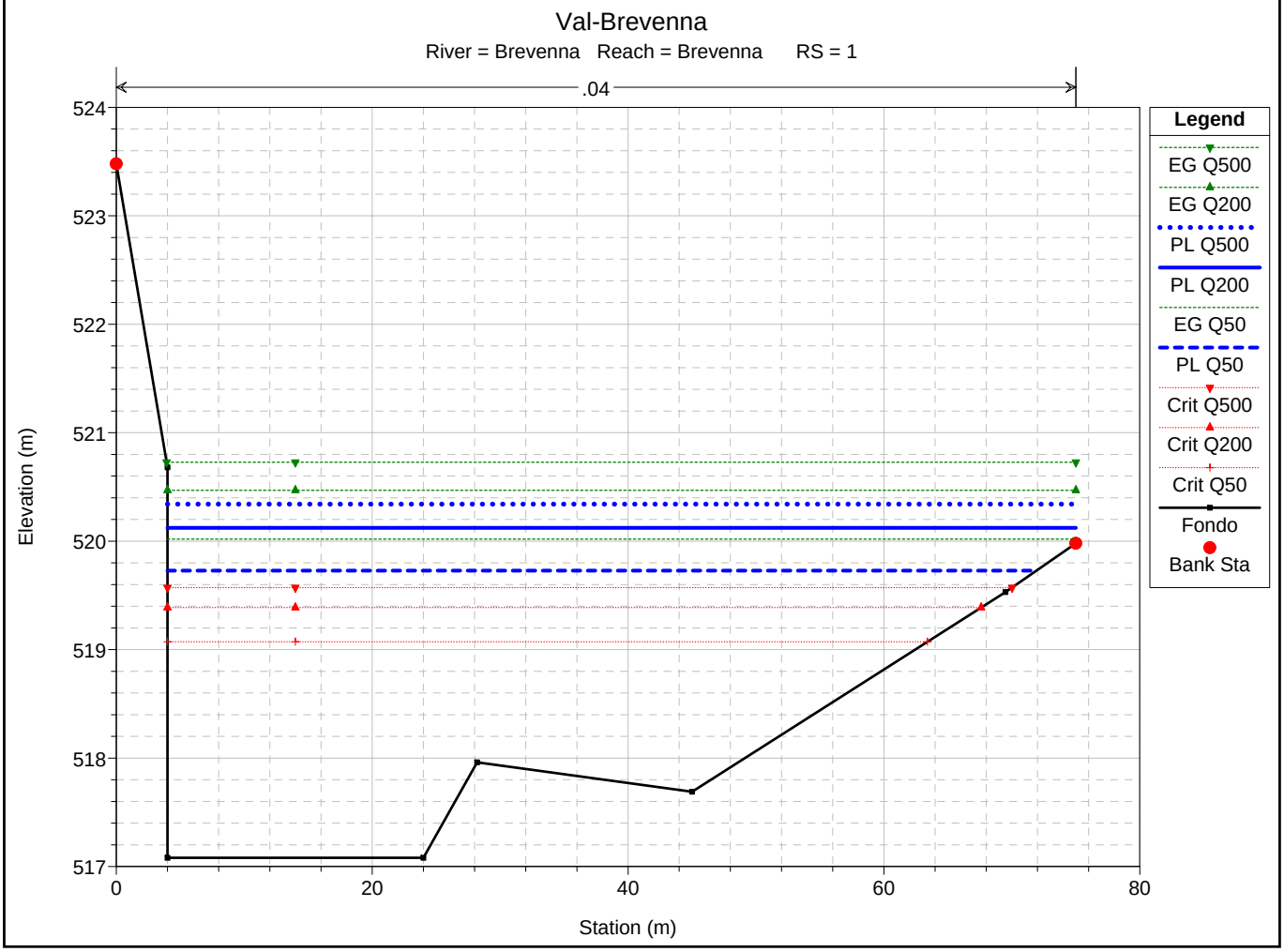

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 6.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

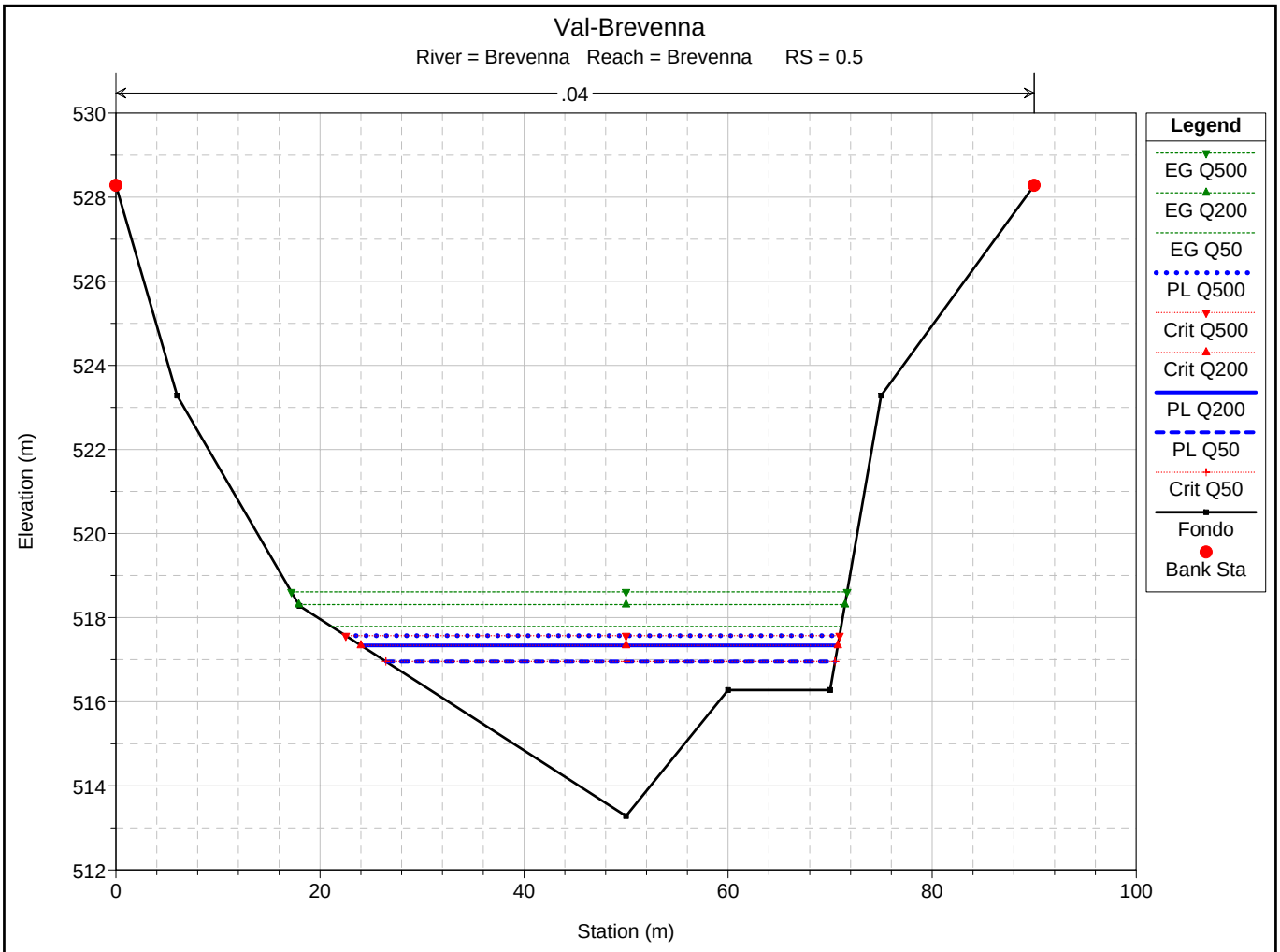

Val-Brevenna
River = Brevenna Reach = Brevenna RS = 5.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Val-Brevenna
River = Brevenna Reach = Brevenna RS = 4.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Val-Brevenna
River = Brevenna Reach = Brevenna RS = 3.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Val-Brevenna
River = Brevenna Reach = Brevenna RS = 2.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Val-Brevenna
River = Brevenna Reach = Brevenna RS = 1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


Val-Brevenna
River = Brevenna Reach = Brevenna RS = 0.5
.04
Elevation (m)
530
528
526
524
522
520
518
516
514
512
0
20
40
60
80
100
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

HEC-RAS Plan: t. Brevenna River: Brevenna Reach: Brevenna

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Brevenna	27.	Q50	238.00	559.80	563.06	568.80	5.74	568.80	5.74	563.06	564.00	0.013848	4.28	55.60	30.09	1.01
Brevenna	27.	Q200	330.00	559.80	563.57	568.80	5.23	568.80	5.23	563.57	564.64	0.013305	4.58	72.07	34.19	1.01
Brevenna	27.	Q500	390.00	559.80	563.94	568.80	4.86	568.80	4.86	563.94	565.00	0.013061	4.55	85.65	40.56	1.00
Brevenna	26.	Q50	238.00	546.92	548.80	552.91	4.11	550.80	2.00	550.25	554.24	0.122534	10.34	23.02	16.94	2.83
Brevenna	26.	Q200	330.00	546.92	549.19	552.91	3.72	550.80	1.61	550.86	555.39	0.107580	11.03	29.92	17.85	2.72
Brevenna	26.	Q500	390.00	546.92	549.44	552.91	3.47	550.80	1.36	551.19	556.00	0.099772	11.35	34.36	18.42	2.65
Brevenna	25.	Q50	238.00	546.42	548.93	554.04	5.11	552.27	3.34	549.65	551.29	0.057409	6.80	34.98	27.85	1.94
Brevenna	25.	Q200	330.00	546.42	549.15	554.04	4.89	552.27	3.12	550.12	552.42	0.066794	8.02	41.16	28.61	2.13
Brevenna	25.	Q500	390.00	546.42	549.29	554.04	4.75	552.27	2.98	550.41	553.09	0.070376	8.64	45.12	29.09	2.22
Brevenna	24.	Q50	238.00	546.38	549.25	554.30	5.05	551.80	2.55	549.45	550.38	0.020001	4.71	50.50	31.16	1.18
Brevenna	24.	Q200	330.00	546.38	549.37	554.30	4.93	551.80	2.43	549.90	551.26	0.031070	6.10	54.08	31.46	1.49
Brevenna	24.	Q500	390.00	546.38	549.47	554.30	4.83	551.80	2.33	550.17	551.82	0.035975	6.79	57.45	31.73	1.61
Brevenna	23.	Q50	238.00	545.96	549.09	554.04	4.95	553.19	4.10	549.21	550.18	0.018030	4.61	51.63	28.89	1.10
Brevenna	23.	Q200	330.00	545.96	549.53	554.04	4.51	553.19	3.66	549.69	550.87	0.017522	5.12	64.44	29.78	1.11
Brevenna	23.	Q500	390.00	545.96	549.88	554.04	4.16	553.19	3.31	549.98	551.26	0.015538	5.21	74.81	30.48	1.06
Brevenna	22.	Q50	238.00	545.20	547.87	551.50	3.63	549.81	1.94	548.30	549.58	0.025954	5.79	41.11	21.71	1.34
Brevenna	22.	Q200	330.00	545.20	548.48	551.50	3.02	549.81	1.33	548.88	550.33	0.021479	6.04	54.64	22.98	1.25
Brevenna	22.	Q500	390.00	545.20	548.85	551.50	2.65	549.81	0.96	549.22	550.78	0.019354	6.14	63.49	23.78	1.20
Brevenna	21.	Q50	238.00	539.72	541.36	548.80	7.44	548.80	7.44	542.14	543.77	0.052740	6.88	34.61	25.47	1.88
Brevenna	21.	Q200	330.00	539.72	541.62	548.80	7.18	548.80	7.18	542.67	544.85	0.058915	7.96	41.46	26.53	2.03
Brevenna	21.	Q500	390.00	539.72	541.78	548.80	7.02	548.80	7.02	542.94	545.50	0.061825	8.55	45.63	27.16	2.10
Brevenna	20.	Q50	238.00	527.56	531.07	548.80	17.73	543.80	12.73	531.02	532.22	0.012783	4.74	50.22	20.72	0.97
Brevenna	20.	Q200	330.00	527.56	531.66	548.80	17.14	543.80	12.14	531.66	533.06	0.013188	5.23	63.07	22.73	1.00
Brevenna	20.	Q500	390.00	527.56	532.03	548.80	16.77	543.80	11.77	532.03	533.54	0.013068	5.45	71.56	23.97	1.01
Brevenna	19.	Q50	291.00	526.68	529.15	531.88	2.73	528.85	-0.30	529.15	529.94	0.011527	4.02	76.64	48.37	0.91
Brevenna	19.	Q200	390.00	526.68	529.34	531.88	2.54	528.85	-0.49	529.50	530.46	0.014673	4.81	86.10	48.59	1.04
Brevenna	19.	Q500	454.00	526.68	529.43	531.88	2.45	528.85	-0.58	529.70	530.80	0.017080	5.33	90.59	48.70	1.13
Brevenna	15.	Q50	291.00	521.47	524.42	525.20	0.78	524.35	-0.07	523.57	524.91	0.004638	3.11	93.51	33.53	0.59
Brevenna	15.	Q200	390.00	521.47	525.07	525.20	0.13	524.35	-0.72	524.01	525.65	0.004348	3.38	115.43	34.09	0.59
Brevenna	15.	Q500	454.00	521.47	525.46	525.20	-0.26	524.35	-1.11	524.28	526.10	0.004188	3.52	128.95	34.20	0.58
Brevenna	14.	Q50	291.00	521.00	524.01	530.00	5.99	524.44	0.44		524.53	0.004768	3.22	90.35	31.82	0.61
Brevenna	14.	Q200	390.00	521.00	524.68	530.00	5.32	524.44	-0.24		525.30	0.004434	3.48	111.97	32.45	0.60
Brevenna	14.	Q500	454.00	521.00	525.08	530.00	4.92	524.44	-0.64		525.75	0.004284	3.62	125.24	32.86	0.59
Brevenna	13.	Q50	291.00	520.74	523.47	530.00	6.53	523.26	-0.21		524.37	0.009339	4.21	69.14	27.20	0.84
Brevenna	13.	Q200	390.00	520.74	524.11	530.00	5.89	523.26	-0.85		525.14	0.008401	4.49	86.77	27.80	0.81
Brevenna	13.	Q500	454.00	520.74	524.50	530.00	5.50	523.26	-1.24		525.60	0.007994	4.65	97.59	28.16	0.80

HEC-RAS Plan: t. Brevenna River: Brevenna Reach: Brevenna (Continued)

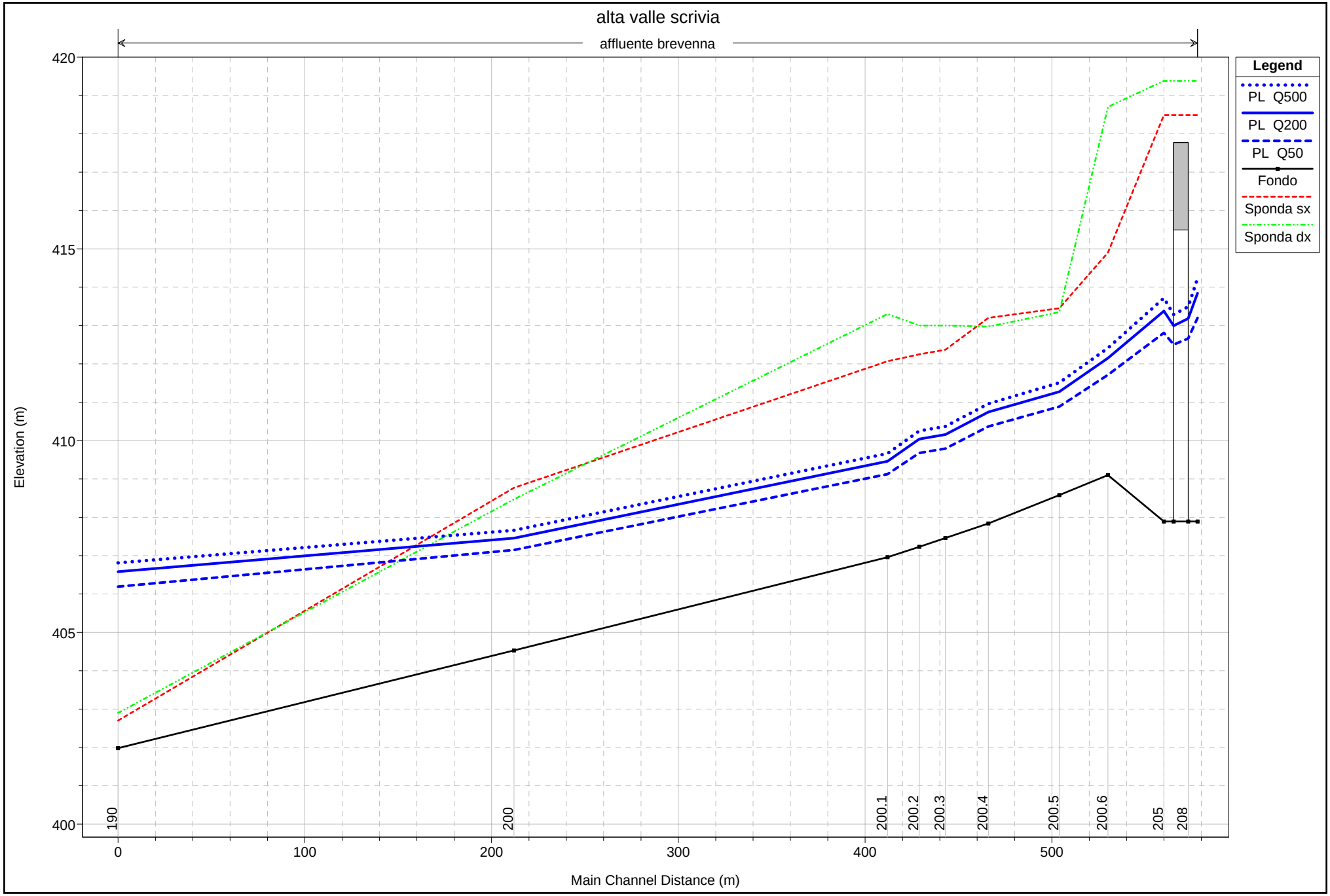
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Brevenna	12.	Q50	291.00	520.44	523.31	530.00	6.69	522.73	-0.58		524.17	0.008407	4.10	71.05	25.66	0.79
Brevenna	12.	Q200	390.00	520.44	523.95	530.00	6.05	522.73	-1.22		524.96	0.008038	4.47	87.33	25.91	0.78
Brevenna	12.	Q500	454.00	520.44	524.33	530.00	5.67	522.73	-1.60		525.42	0.008216	4.64	97.94	27.78	0.79
Brevenna	11.	Q50	291.00	520.22	523.02	527.06	4.04	522.90	-0.12	522.75	524.01	0.010085	4.40	66.15	24.67	0.86
Brevenna	11.	Q200	390.00	520.22	523.66	527.06	3.40	522.90	-0.76	523.29	524.80	0.009990	4.75	82.15	26.50	0.86
Brevenna	11.	Q500	454.00	520.22	524.03	527.06	3.03	522.90	-1.13	523.65	525.27	0.009585	4.93	92.10	26.80	0.85
Brevenna	10.	Q50	291.00	519.98	522.57	536.50	13.93	522.35	-0.22	522.55	523.78	0.013567	4.87	59.70	24.00	0.99
Brevenna	10.	Q200	390.00	519.98	523.14	536.50	13.36	522.35	-0.79	523.06	524.58	0.012979	5.32	73.34	24.23	0.98
Brevenna	10.	Q500	454.00	519.98	523.48	536.50	13.02	522.35	-1.13	523.48	525.04	0.013548	5.53	82.12	26.39	1.00
Brevenna	9.	Q50	291.00	519.80	522.39	529.76	7.37	521.74	-0.65	522.36	523.61	0.013646	4.89	59.56	23.78	0.99
Brevenna	9.	Q200	390.00	519.80	522.98	529.76	6.78	521.74	-1.24	522.97	524.40	0.013668	5.29	73.76	25.64	1.00
Brevenna	9.	Q500	454.00	519.80	523.25	529.76	6.51	521.74	-1.51	523.28	524.86	0.014113	5.62	80.80	26.01	1.02
Brevenna	8.	Q50	291.00	519.66	522.24	529.38	7.14	521.59	-0.65	522.22	523.47	0.013765	4.90	59.39	23.80	0.99
Brevenna	8.	Q200	390.00	519.66	522.84	529.38	6.54	521.59	-1.25	522.81	524.26	0.013604	5.28	73.86	25.66	0.99
Brevenna	8.	Q500	454.00	519.66	523.10	529.38	6.28	521.59	-1.51	523.13	524.71	0.014115	5.62	80.72	25.95	1.02
Brevenna	7.	Q50	291.00	519.49	522.09	526.10	4.01	521.56	-0.53	522.05	523.29	0.013513	4.87	59.76	23.87	0.98
Brevenna	7.	Q200	390.00	519.49	522.70	526.10	3.40	521.56	-1.14	522.65	524.08	0.013133	5.22	74.74	25.75	0.98
Brevenna	7.	Q500	454.00	519.49	523.03	526.10	3.07	521.56	-1.47	522.96	524.54	0.012846	5.45	83.29	26.11	0.97
Brevenna	6.	Q50	291.00	519.33	522.01	527.46	5.45	521.16	-0.85	521.88	523.12	0.012002	4.67	62.28	24.06	0.93
Brevenna	6.	Q200	390.00	519.33	522.62	527.46	4.84	521.16	-1.46	522.47	523.91	0.011863	5.03	77.49	25.99	0.93
Brevenna	6.	Q500	454.00	519.33	522.96	527.46	4.50	521.16	-1.80	522.78	524.37	0.011616	5.26	86.38	26.40	0.93
Brevenna	5.	Q50	291.00	519.15	521.97	527.51	5.54	521.16	-0.81	521.66	522.93	0.009757	4.34	66.98	24.63	0.84
Brevenna	5.	Q200	390.00	519.15	522.60	527.51	4.91	521.16	-1.44	522.25	523.72	0.009605	4.67	83.44	26.64	0.84
Brevenna	5.	Q500	454.00	519.15	522.95	527.51	4.56	521.16	-1.79	522.55	524.17	0.009451	4.89	92.81	26.98	0.84
Brevenna	4.	Q50	291.00	518.85	521.42	530.00	8.58	521.07	-0.35	521.42	522.65	0.014004	4.93	59.08	23.92	1.00
Brevenna	4.	Q200	390.00	518.85	522.02	530.00	7.98	521.07	-0.95	522.02	523.44	0.013723	5.29	73.75	25.87	1.00
Brevenna	4.	Q500	454.00	518.85	522.33	530.00	7.67	521.07	-1.26	522.33	523.89	0.013603	5.55	81.84	26.23	1.00
Brevenna	3.	Q50	291.00	518.51	520.76	530.00	9.24	520.75	-0.01	521.01	522.22	0.019125	5.37	54.23	25.70	1.18
Brevenna	3.	Q200	390.00	518.51	521.19	530.00	8.81	520.75	-0.44	521.52	523.00	0.019182	5.95	65.50	26.05	1.20
Brevenna	3.	Q500	454.00	518.51	521.47	530.00	8.53	520.75	-0.72	521.83	523.45	0.018851	6.24	72.75	26.27	1.20
Brevenna	2.	Q50	291.00	518.18	520.26	530.00	9.74	520.13	-0.13	520.56	521.74	0.021195	5.39	53.98	28.23	1.24
Brevenna	2.	Q200	390.00	518.18	520.62	530.00	9.38	520.13	-0.49	521.05	522.50	0.022148	6.08	64.19	28.50	1.29
Brevenna	2.	Q500	454.00	518.18	520.84	530.00	9.16	520.13	-0.71	521.33	522.95	0.022426	6.44	70.50	28.66	1.31
Brevenna	1	Q50	291.00	517.08	519.73	523.48	3.75	519.98	0.25	519.07	520.02	0.004423	2.39	121.81	67.92	0.57
Brevenna	1	Q200	390.00	517.08	520.12	523.48	3.36	519.98	-0.14	519.39	520.47	0.004298	2.61	149.43	71.00	0.57
Brevenna	1	Q500	454.00	517.08	520.34	523.48	3.14	519.98	-0.36	519.57	520.73	0.004218	2.75	165.01	71.00	0.58

HEC-RAS Plan: t. Brevenna River: Brevenna Reach: Brevenna (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Brevenna	0.5	Q50	291.00	513.28	516.96	528.28	11.32	528.28	11.32	516.96	517.79	0.014001	4.04	72.01	44.02	1.01
Brevenna	0.5	Q200	390.00	513.28	517.34	528.28	10.94	528.28	10.94	517.34	518.31	0.013318	4.36	89.37	46.74	1.01
Brevenna	0.5	Q500	454.00	513.28	517.57	528.28	10.71	528.28	10.71	517.57	518.61	0.012868	4.52	100.37	48.39	1.00

Torrente Brevenna *(confluenza)*

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati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Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
420
415
410
405
400
0
100
200
300
400
500
Main Channel Distance (m)
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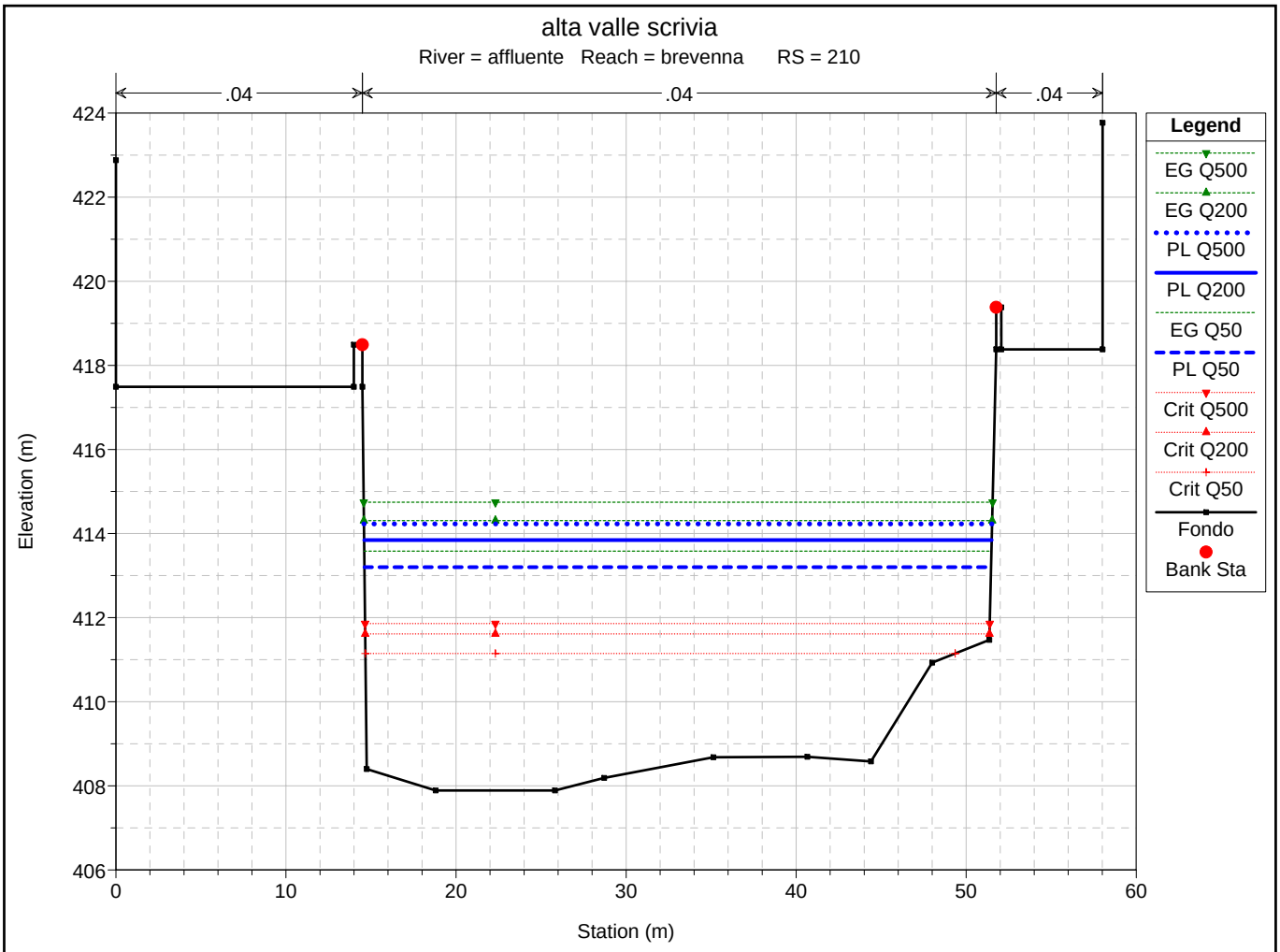
200.1
200.2
200.3
200.4
200.5
200.6
205
208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.04
.04
.04
Elevation (m)
Station (m)
Legend
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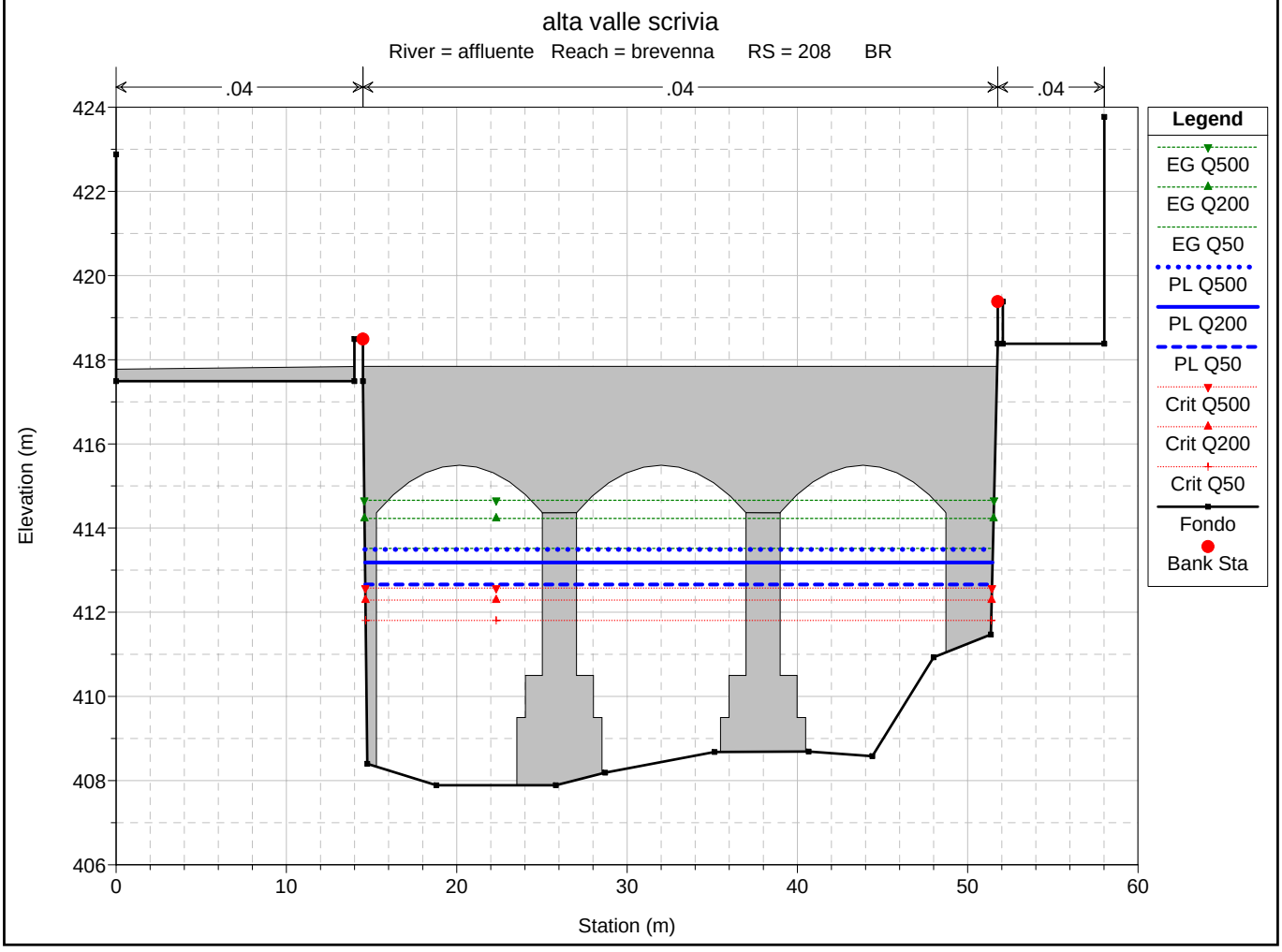
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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.04
.04
.04
Elevation (m)
Station (m)
Legend
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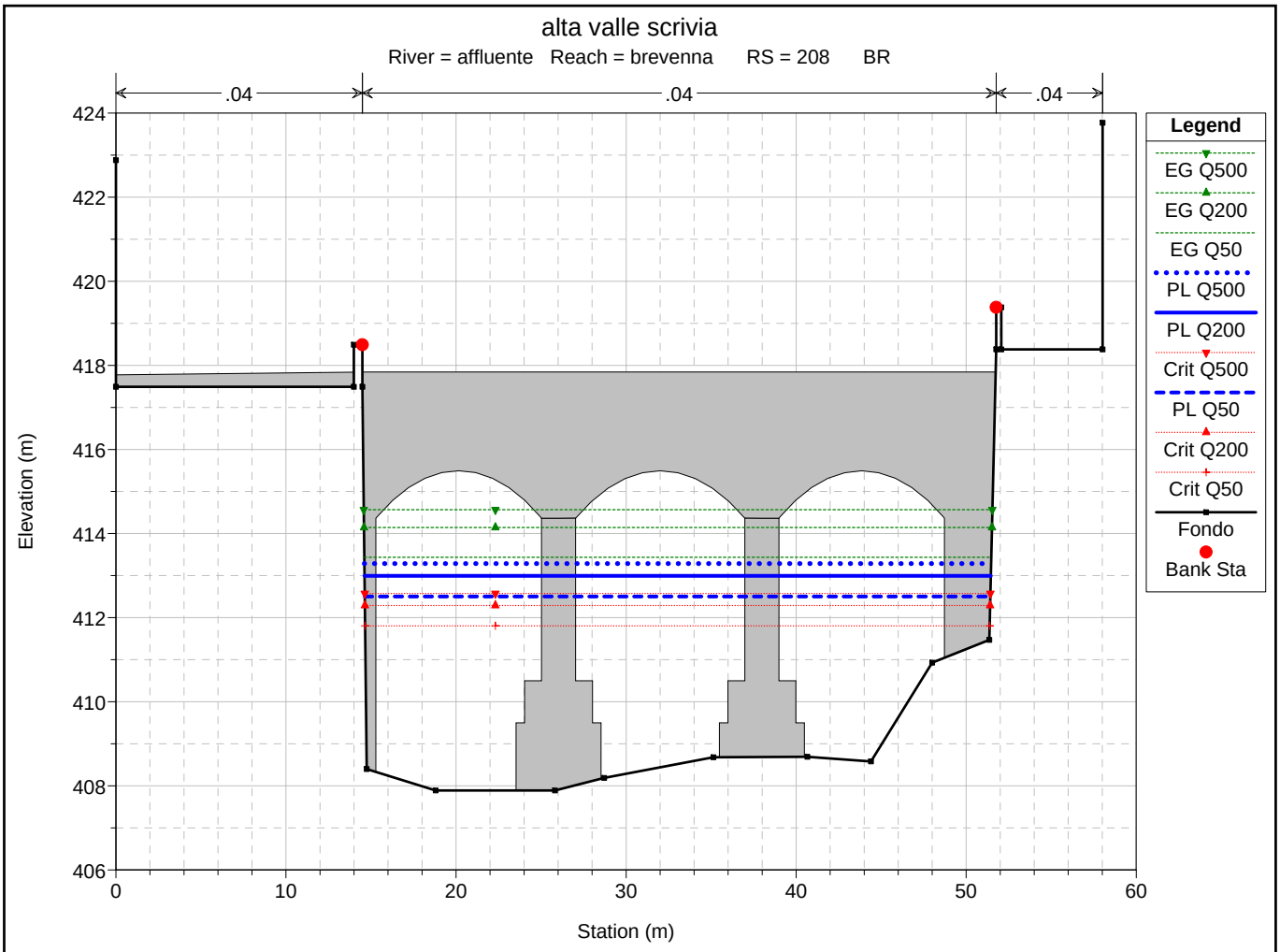
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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.04
.04
Elevation (m)
Station (m)
Legend
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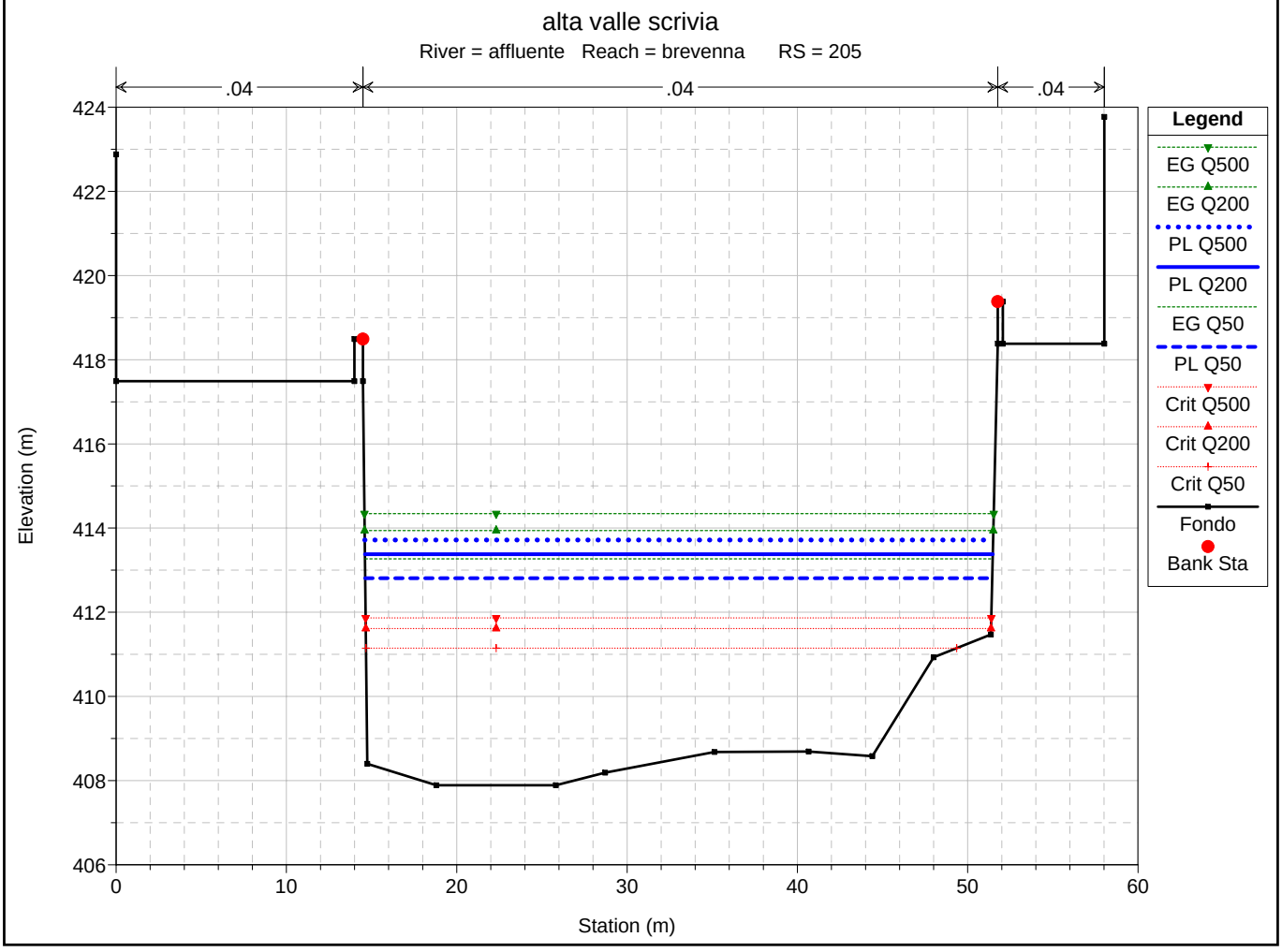
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta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.04
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Elevation (m)
Station (m)
Legend
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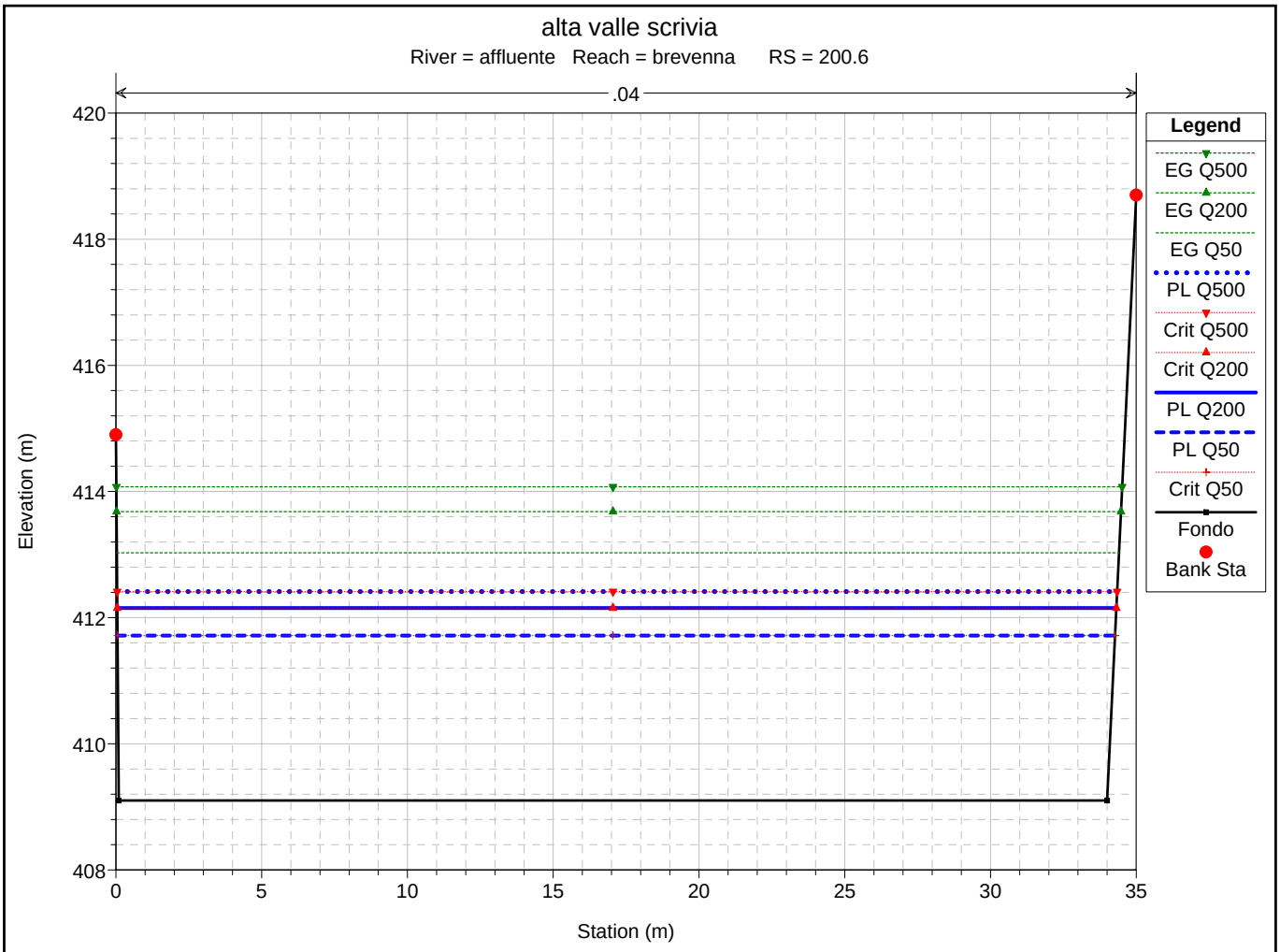
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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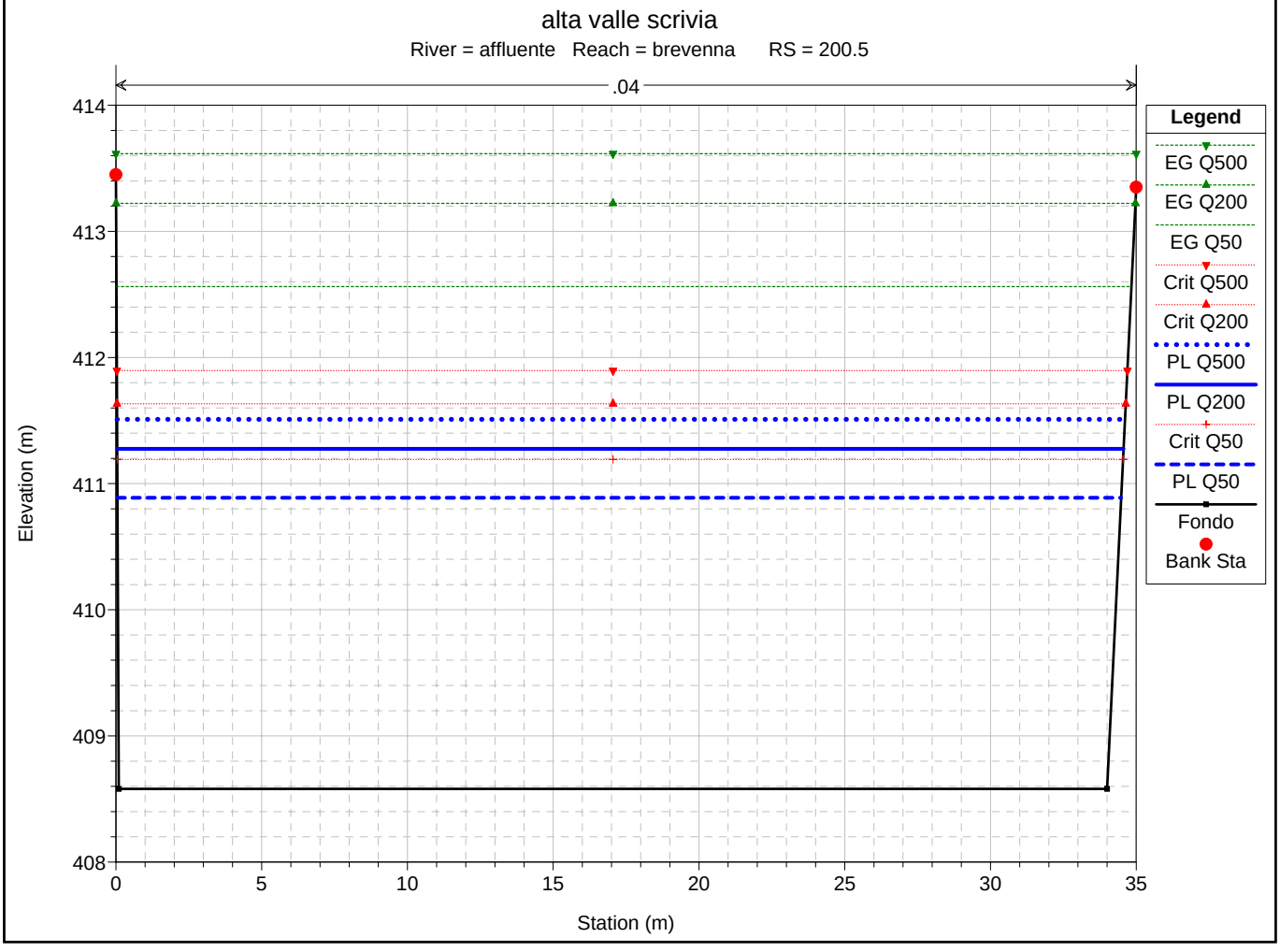
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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.04
Elevation (m)
Station (m)
Legend
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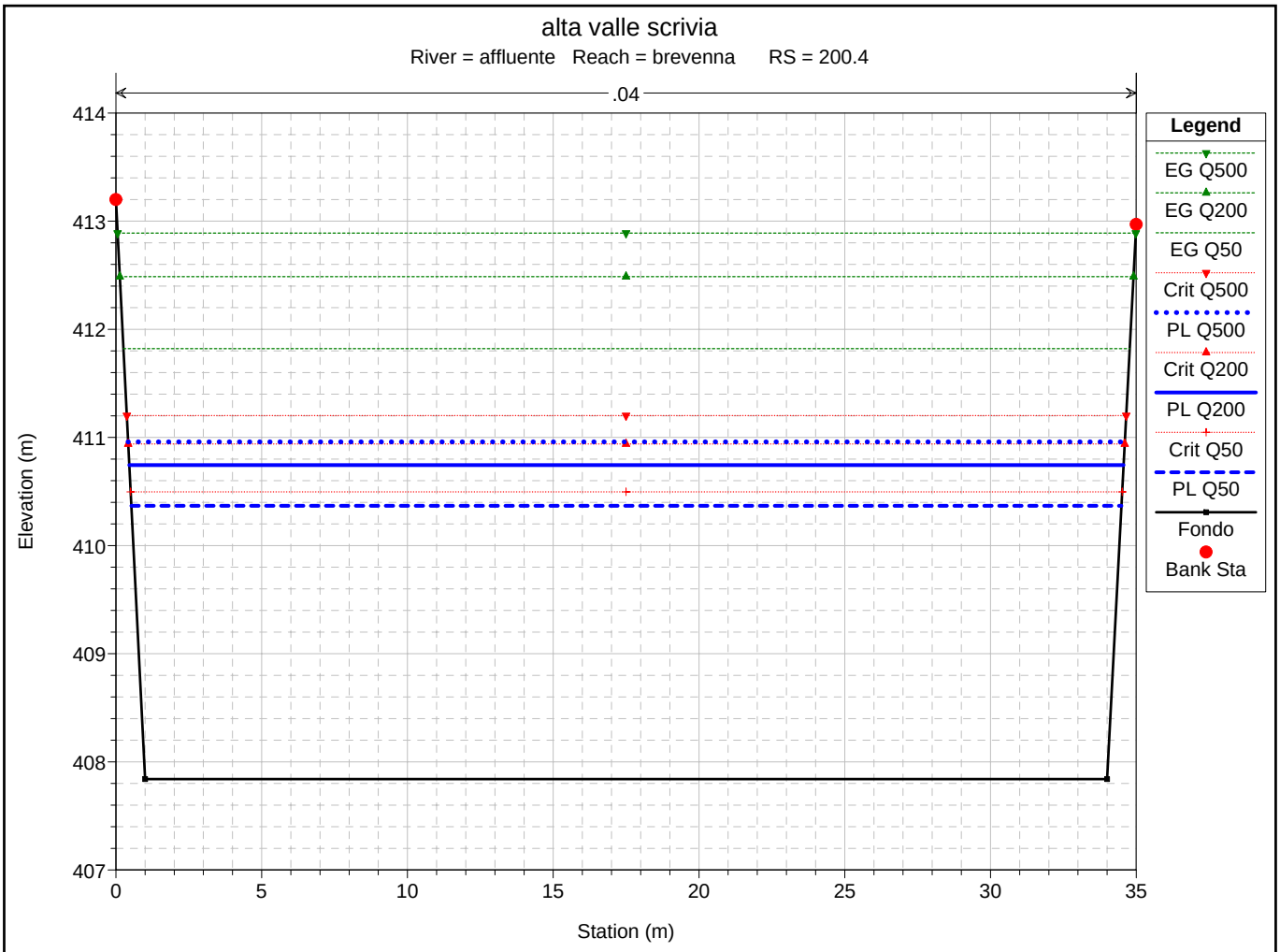
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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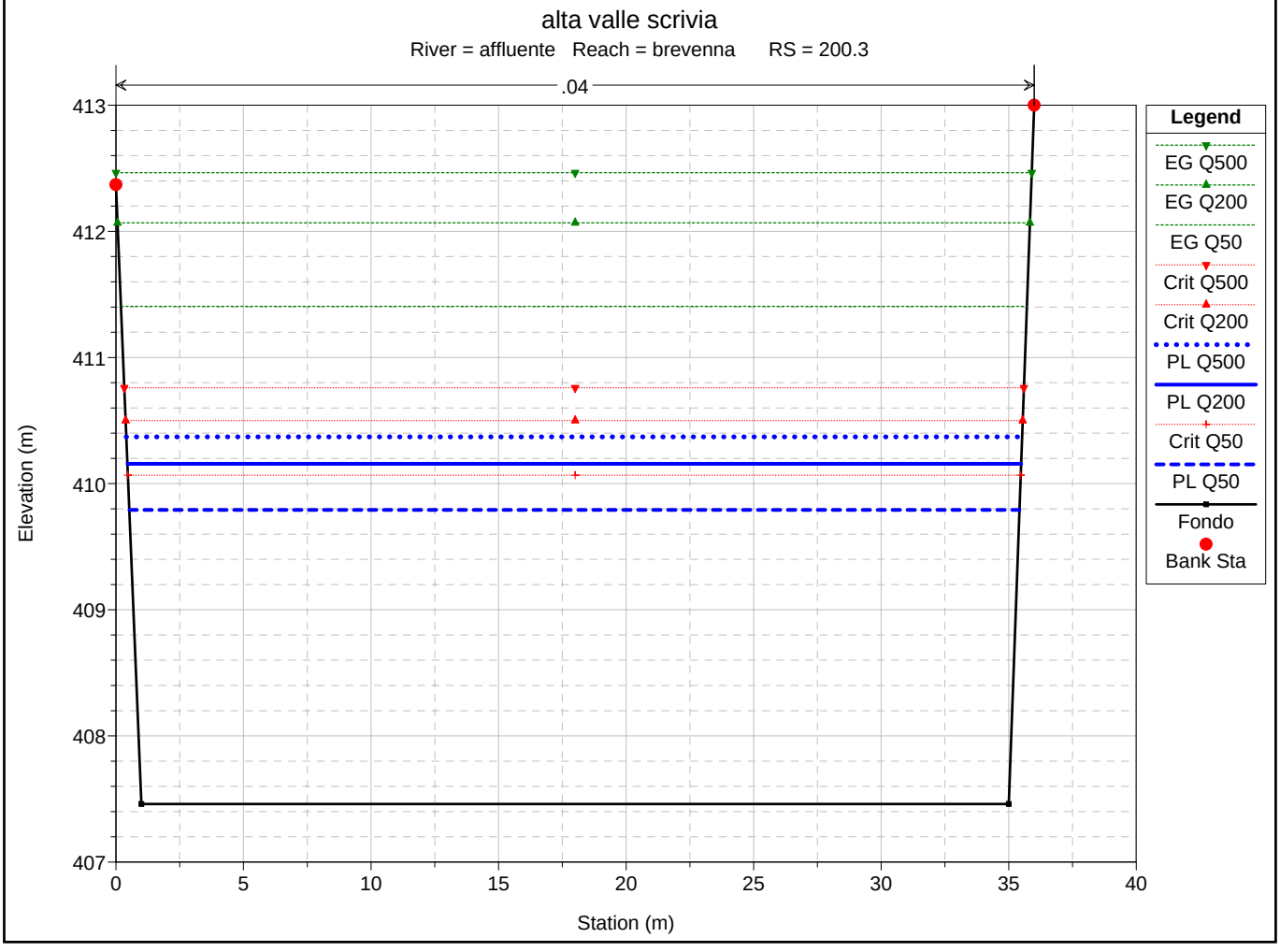
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta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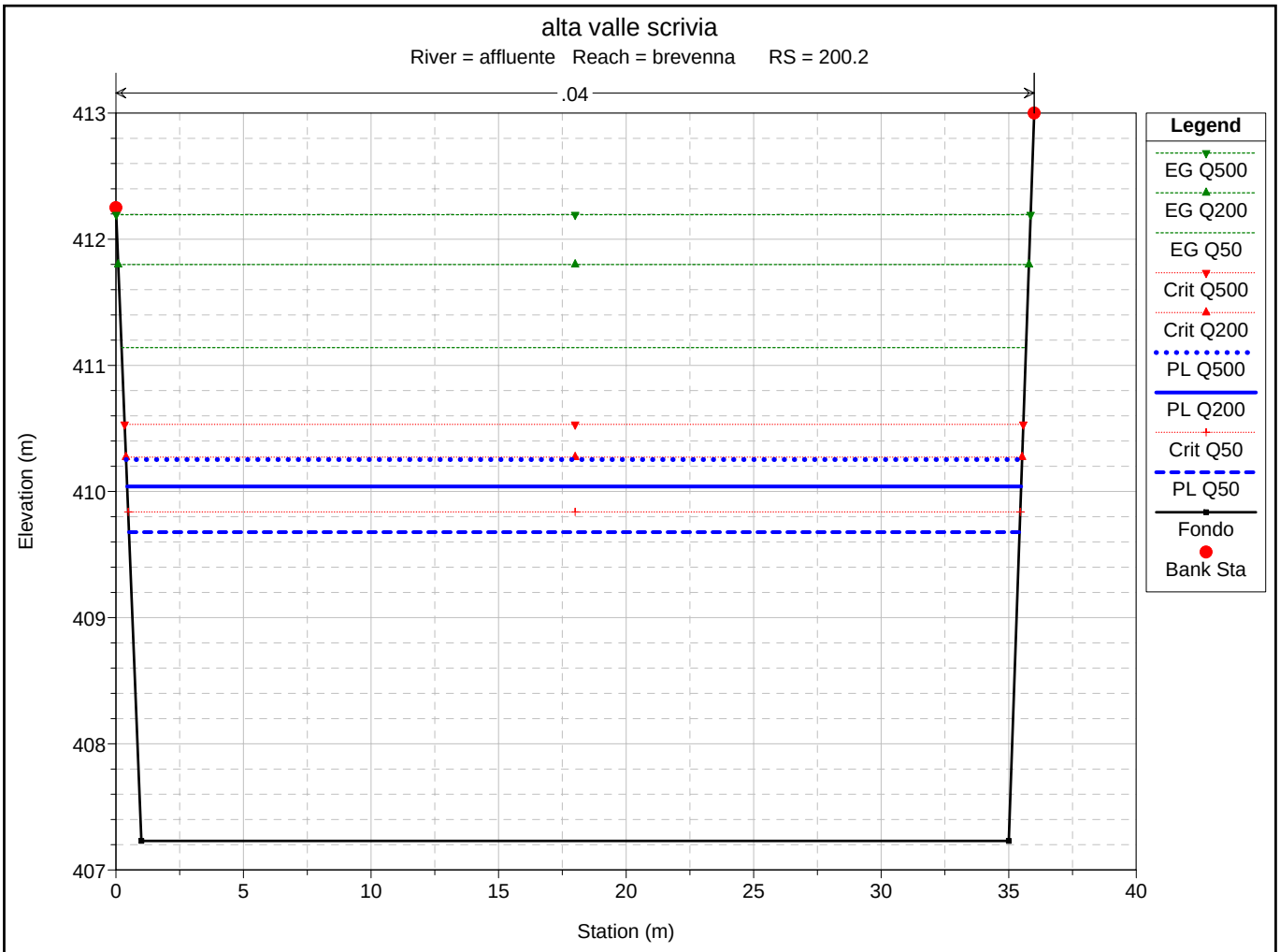
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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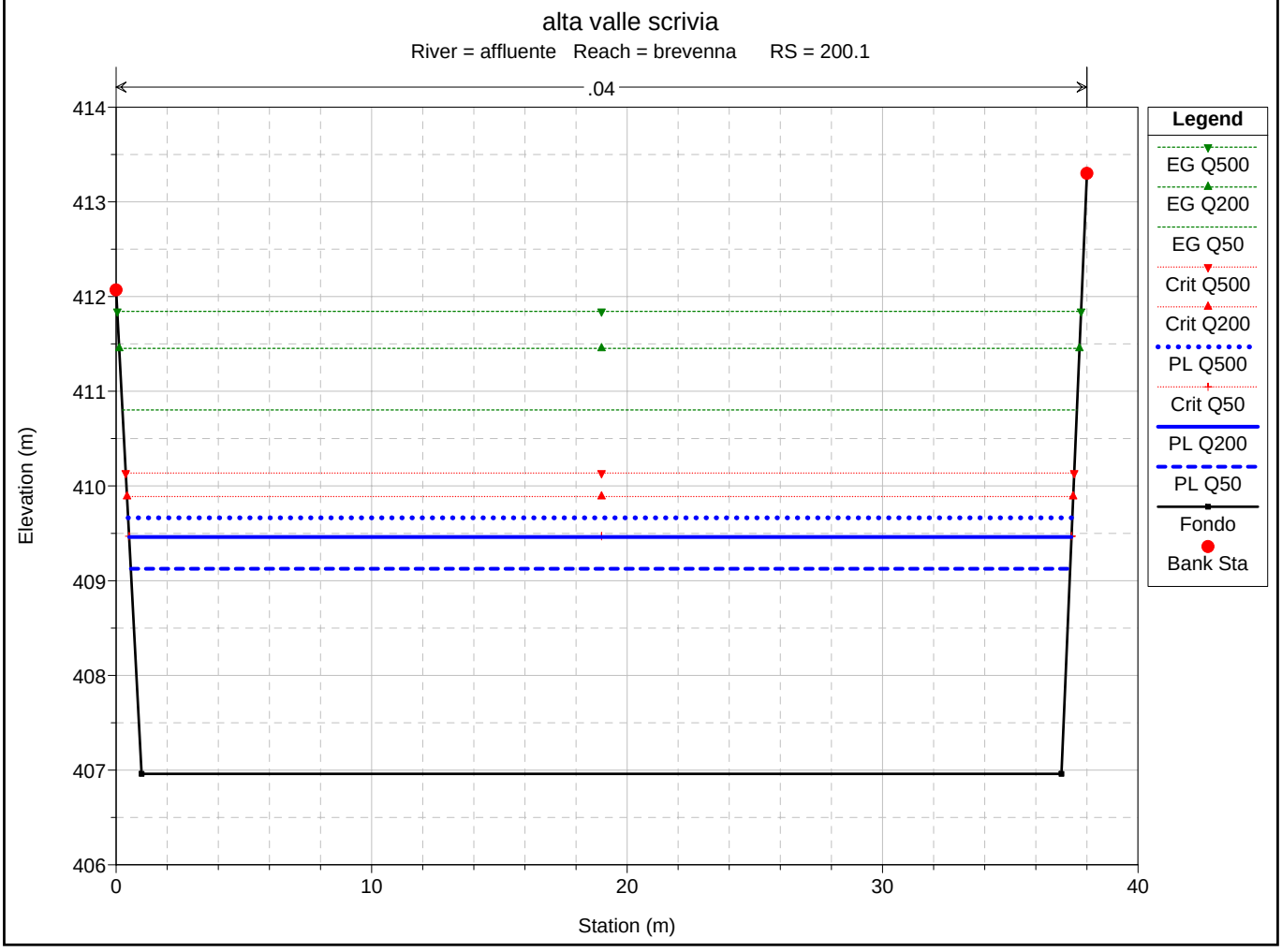
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta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Station (m)
Legend
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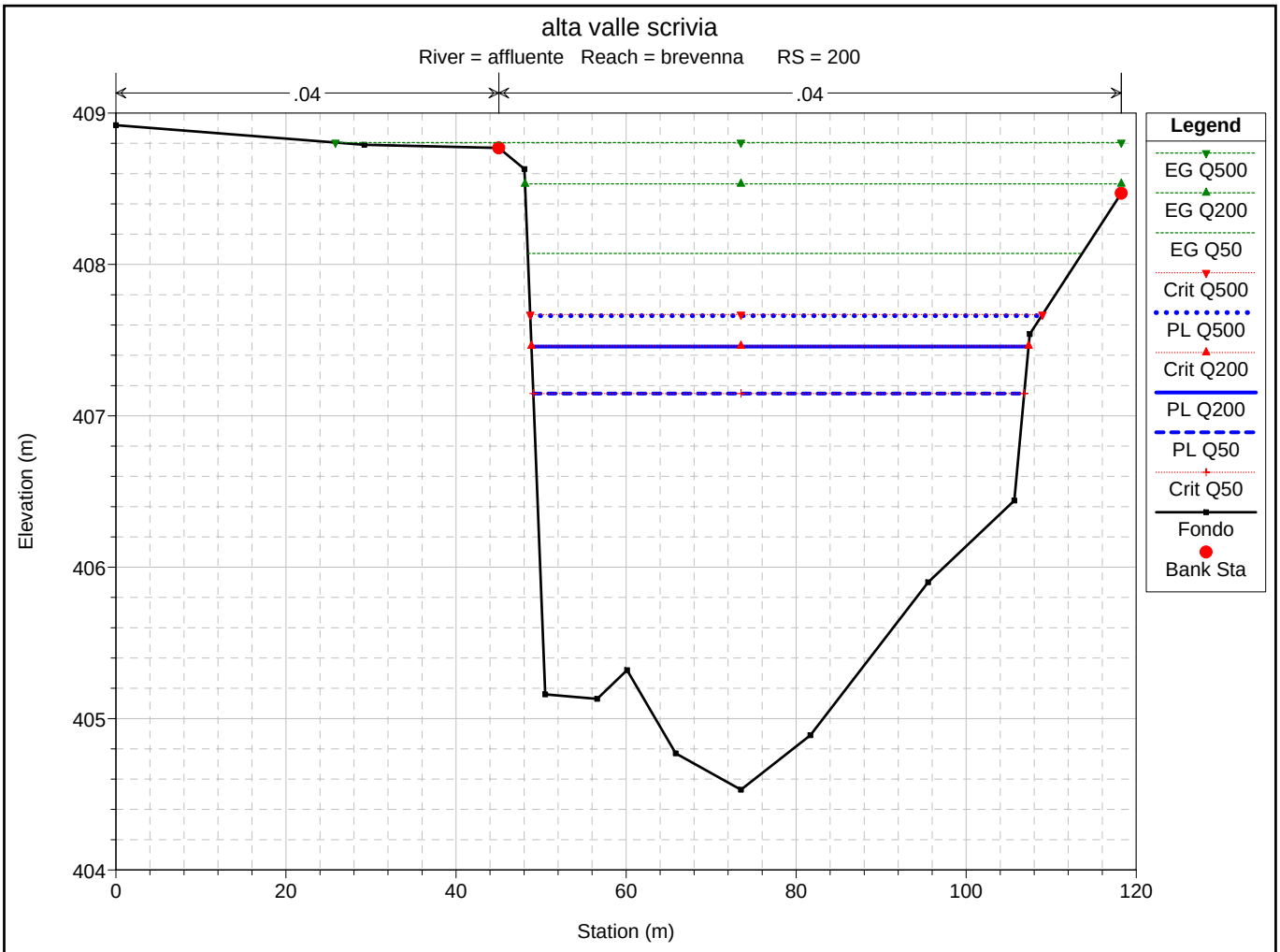
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta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Station (m)
Legend
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EG Q200
EG Q50
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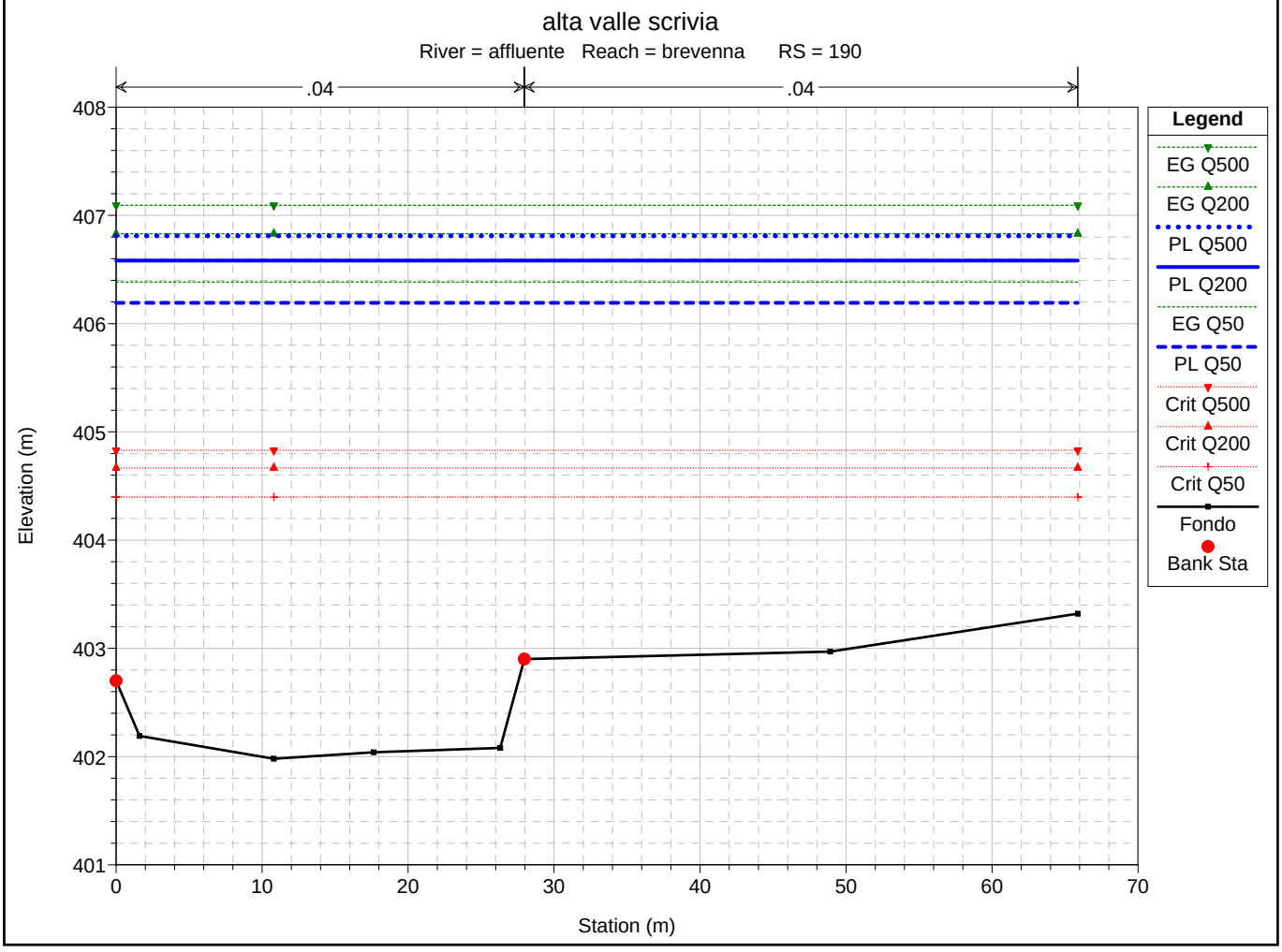
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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.04
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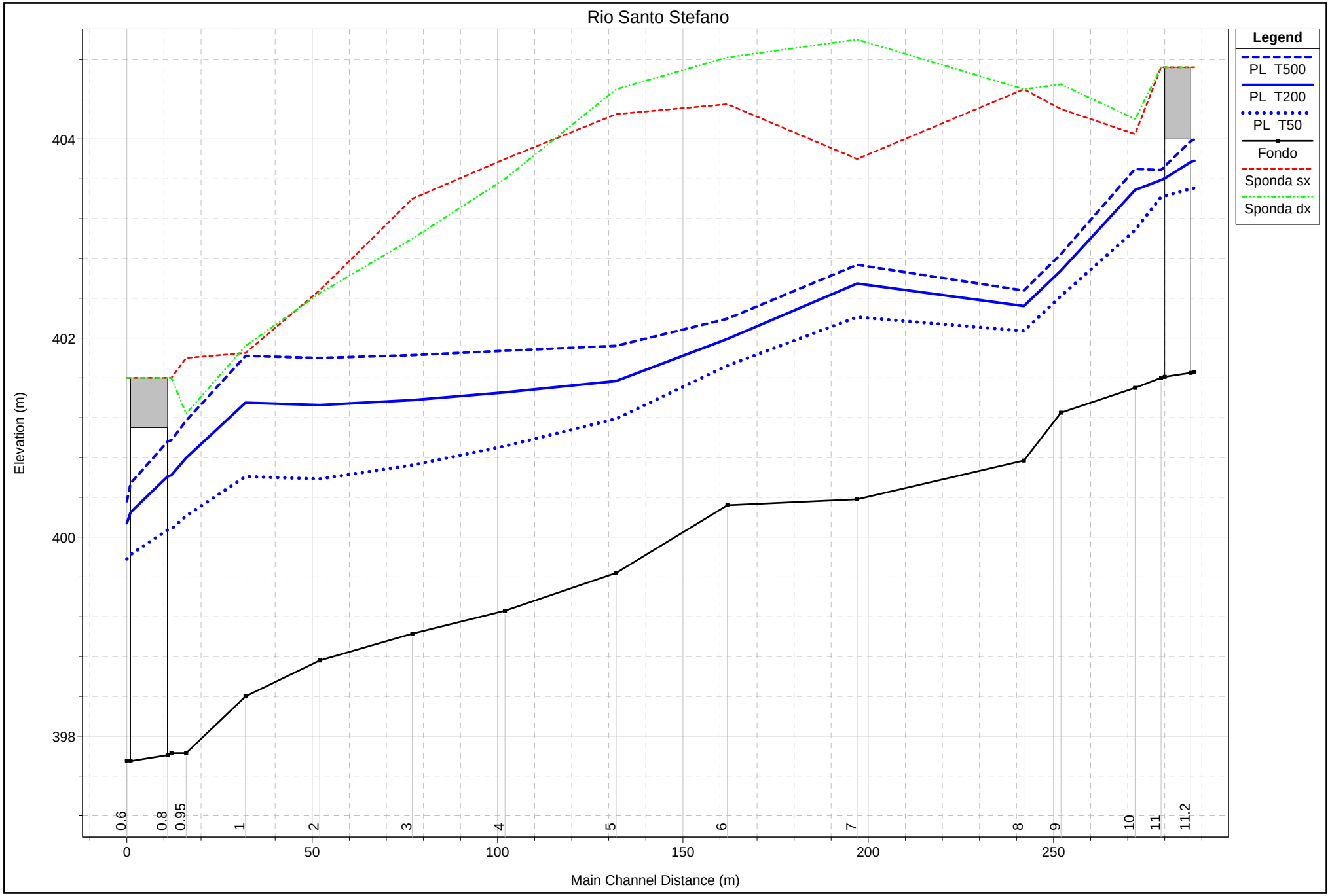
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

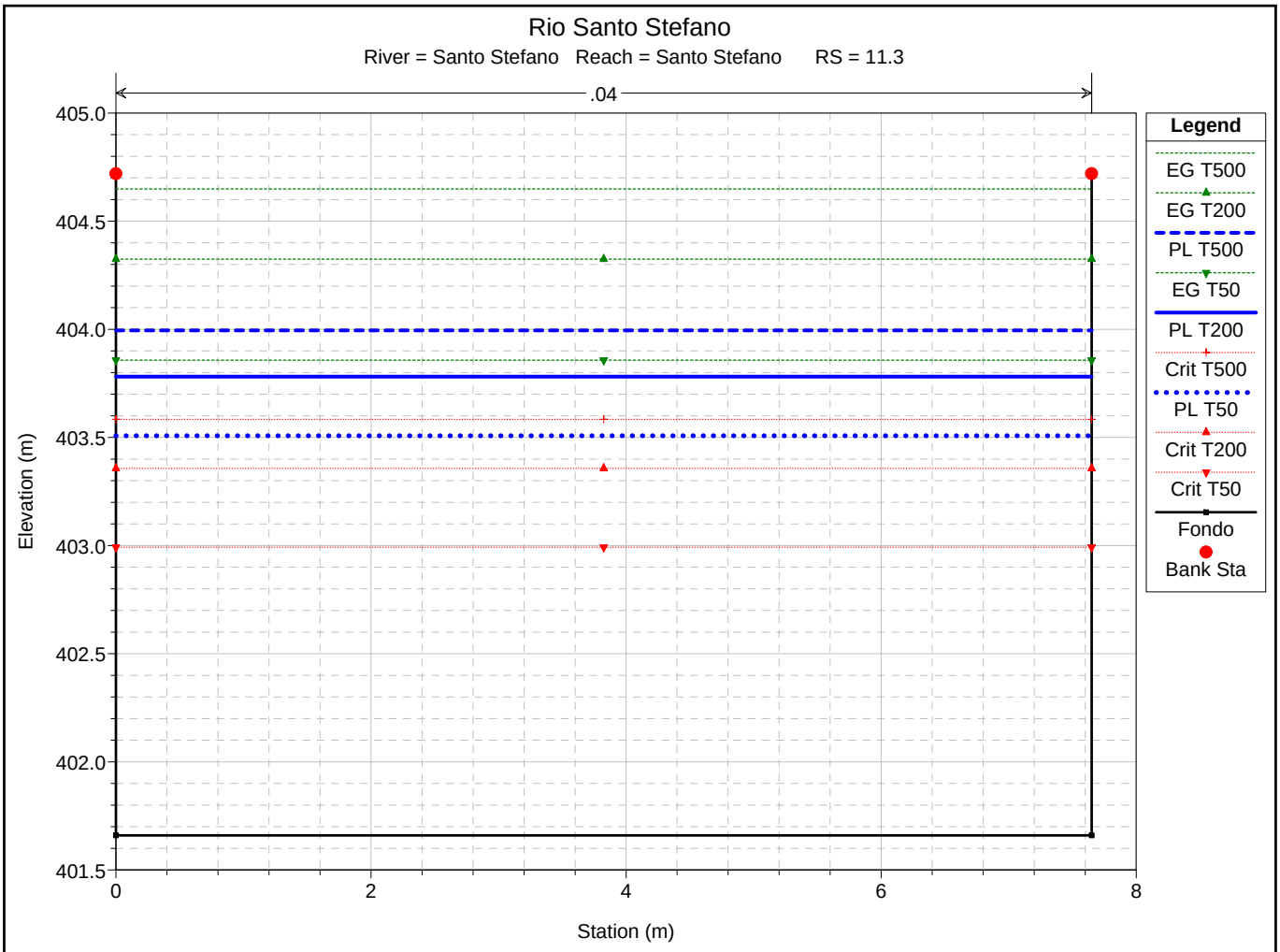
HEC-RAS Plan: 02_Rev B River: affluente Reach: brevenna

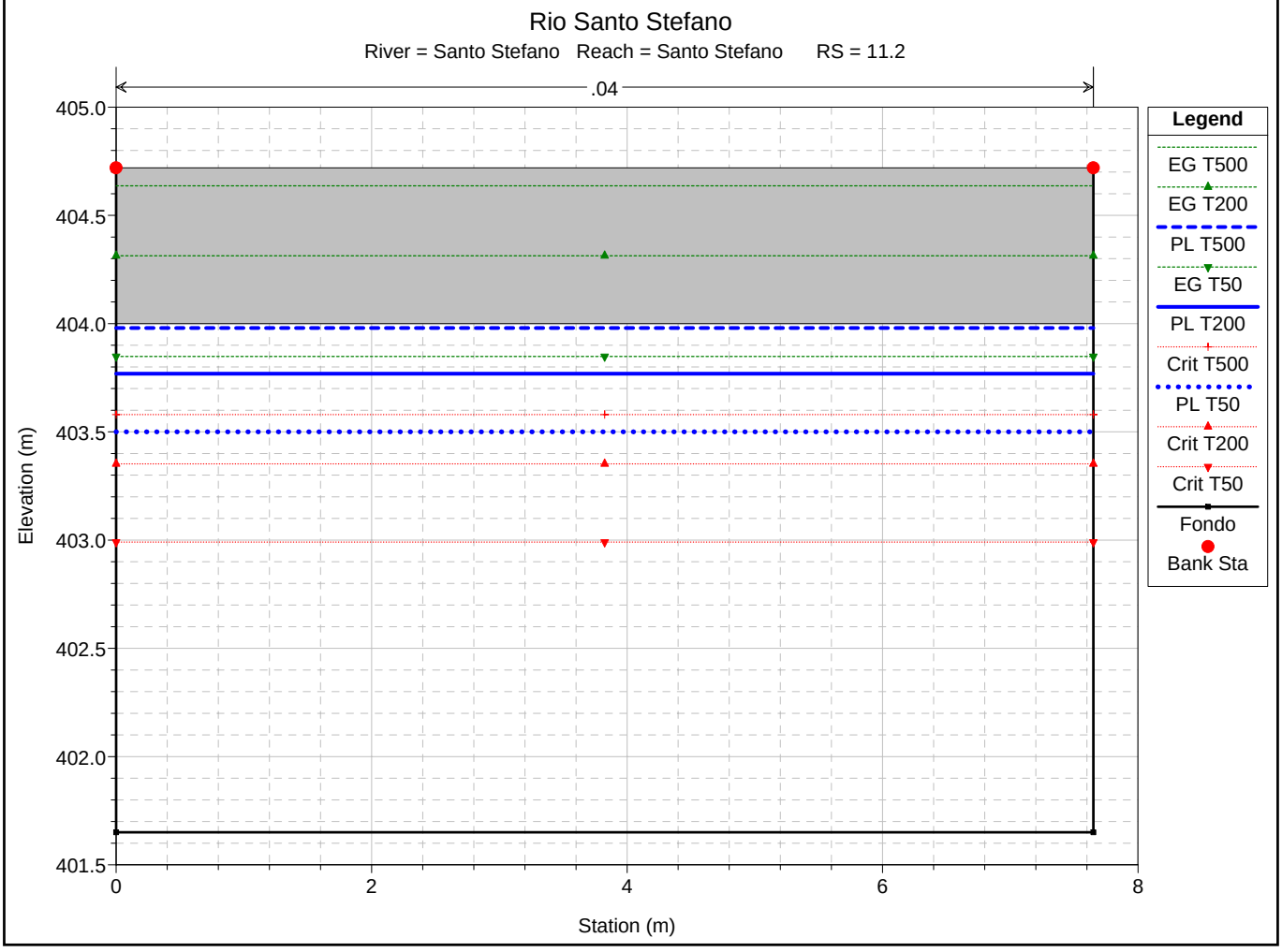
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
brevenna	210	Q50	452.00	407.89	413.20	418.49	5.29	419.38	6.18	411.15	413.58	0.002066	2.74	164.81	36.85	0.41
brevenna	210	Q200	570.00	407.89	413.84	418.49	4.65	419.38	5.54	411.61	414.31	0.002180	3.02	188.57	36.90	0.43
brevenna	210	Q500	645.00	407.89	414.23	418.49	4.26	419.38	5.15	411.86	414.75	0.002238	3.18	202.85	36.94	0.43
brevenna	208		Bridge													
brevenna	205	Q50	452.00	407.89	412.81	418.49	5.68	419.38	6.57	411.15	413.27	0.002733	3.00	150.45	36.81	0.47
brevenna	205	Q200	570.00	407.89	413.38	418.49	5.11	419.38	6.00	411.61	413.94	0.002916	3.33	171.36	36.86	0.49
brevenna	205	Q500	645.00	407.89	413.72	418.49	4.77	419.38	5.66	411.87	414.34	0.003015	3.51	183.83	36.89	0.50
brevenna	200.6	Q50	452.00	409.10	411.72	414.90	3.18	418.70	6.98	411.72	413.03	0.013770	5.07	89.06	34.22	1.00
brevenna	200.6	Q200	570.00	409.10	412.15	414.90	2.75	418.70	6.55	412.15	413.68	0.013447	5.48	104.01	34.27	1.00
brevenna	200.6	Q500	645.00	409.10	412.41	414.90	2.49	418.70	6.29	412.41	414.07	0.013292	5.71	113.00	34.30	1.00
brevenna	200.5	Q50	452.00	408.58	410.89	413.45	2.56	413.35	2.46	411.19	412.56	0.020257	5.73	78.86	34.43	1.21
brevenna	200.5	Q200	570.00	408.58	411.28	413.45	2.17	413.35	2.07	411.63	413.22	0.019639	6.18	92.22	34.52	1.21
brevenna	200.5	Q500	645.00	408.58	411.51	413.45	1.94	413.35	1.84	411.90	413.62	0.019309	6.43	100.30	34.57	1.21
brevenna	200.4	Q50	452.00	407.84	410.37	413.20	2.83	412.97	2.60	410.50	411.82	0.015763	5.34	84.65	33.96	1.08
brevenna	200.4	Q200	570.00	407.84	410.74	413.20	2.46	412.97	2.23	410.94	412.49	0.016107	5.85	97.43	34.11	1.10
brevenna	200.4	Q500	645.00	407.84	410.96	413.20	2.24	412.97	2.01	411.20	412.89	0.016423	6.16	104.79	34.19	1.12
brevenna	200.3	Q50	452.00	407.46	409.79	412.37	2.58	413.00	3.21	410.07	411.41	0.019175	5.63	80.32	34.90	1.18
brevenna	200.3	Q200	570.00	407.46	410.16	412.37	2.21	413.00	2.84	410.50	412.07	0.019120	6.12	93.09	35.04	1.20
brevenna	200.3	Q500	645.00	407.46	410.37	412.37	2.00	413.00	2.63	410.76	412.47	0.019193	6.41	100.59	35.12	1.21
brevenna	200.2	Q50	452.00	407.23	409.68	412.25	2.57	413.00	3.32	409.84	411.14	0.016424	5.36	84.34	34.91	1.10
brevenna	200.2	Q200	570.00	407.23	410.04	412.25	2.21	413.00	2.96	410.27	411.80	0.016792	5.88	97.01	35.05	1.13
brevenna	200.2	Q500	645.00	407.23	410.25	412.25	2.00	413.00	2.75	410.53	412.19	0.017029	6.17	104.49	35.13	1.14
brevenna	200.1	Q50	452.00	406.96	409.13	412.07	2.94	413.30	4.17	409.47	410.80	0.021625	5.74	78.77	36.77	1.25
brevenna	200.1	Q200	570.00	406.96	409.46	412.07	2.61	413.30	3.84	409.89	411.45	0.021608	6.25	91.17	36.88	1.27
brevenna	200.1	Q500	645.00	406.96	409.66	412.07	2.41	413.30	3.64	410.14	411.84	0.021588	6.54	98.60	36.96	1.28
brevenna	200	Q50	452.00	404.53	407.15	408.77	1.62	408.47	1.32	407.15	408.07	0.013323	4.26	106.03	57.73	1.00
brevenna	200	Q200	570.00	404.53	407.46	408.77	1.31	408.47	1.01	407.46	408.53	0.012821	4.59	124.09	58.46	1.01
brevenna	200	Q500	645.00	404.53	407.66	408.77	1.11	408.47	0.81	407.67	408.81	0.012556	4.74	136.10	60.14	1.01
brevenna	190	Q50	452.00	401.98	406.19	402.70	-3.49	402.90	-3.29	404.40	406.38	0.001233	2.06	234.26	65.87	0.33
brevenna	190	Q200	570.00	401.98	406.58	402.70	-3.88	402.90	-3.68	404.67	406.83	0.001410	2.33	259.94	65.87	0.35
brevenna	190	Q500	645.00	401.98	406.81	402.70	-4.11	402.90	-3.91	404.83	407.09	0.001511	2.48	275.01	65.87	0.36

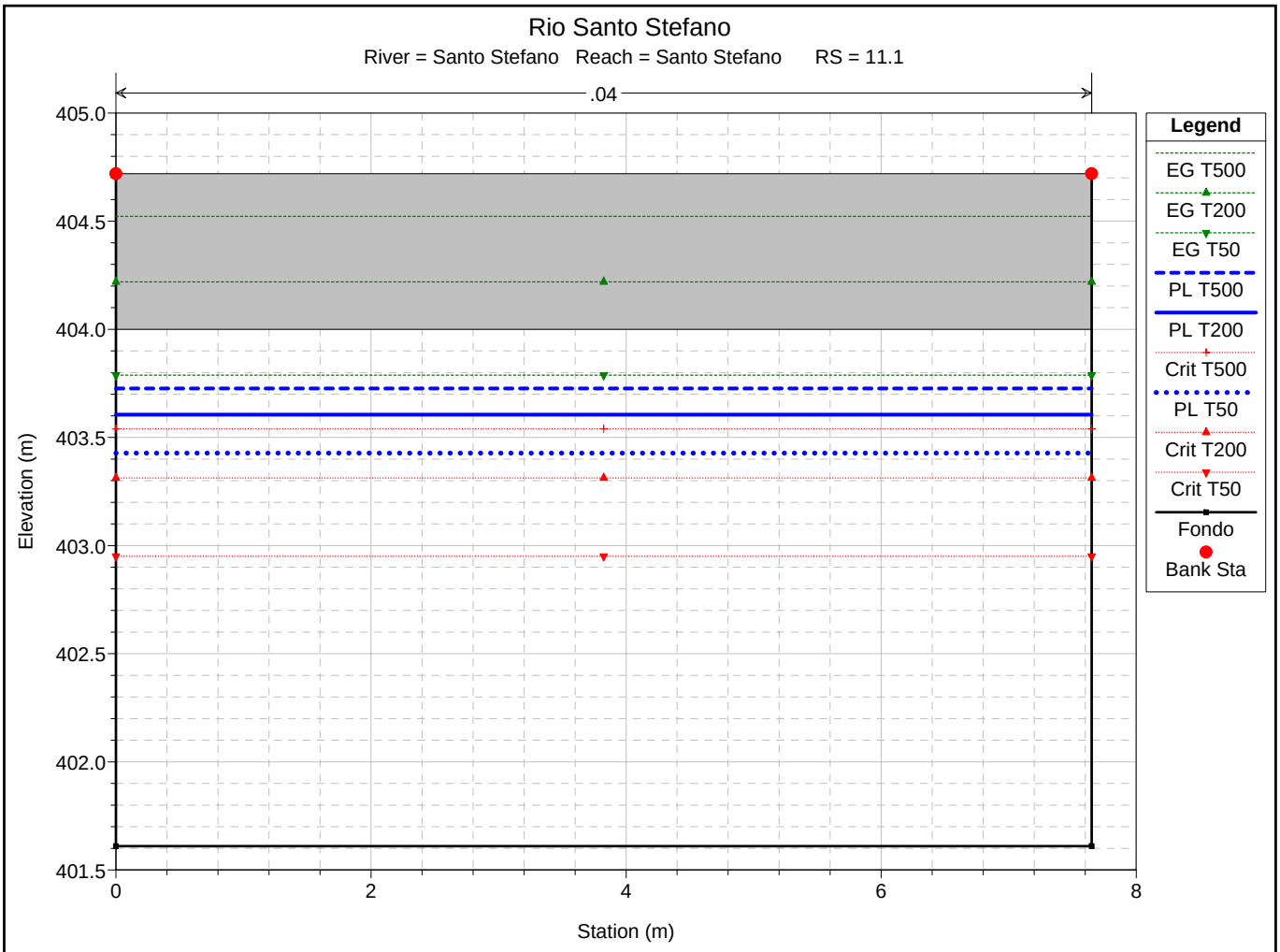
Rio Santo Stefano

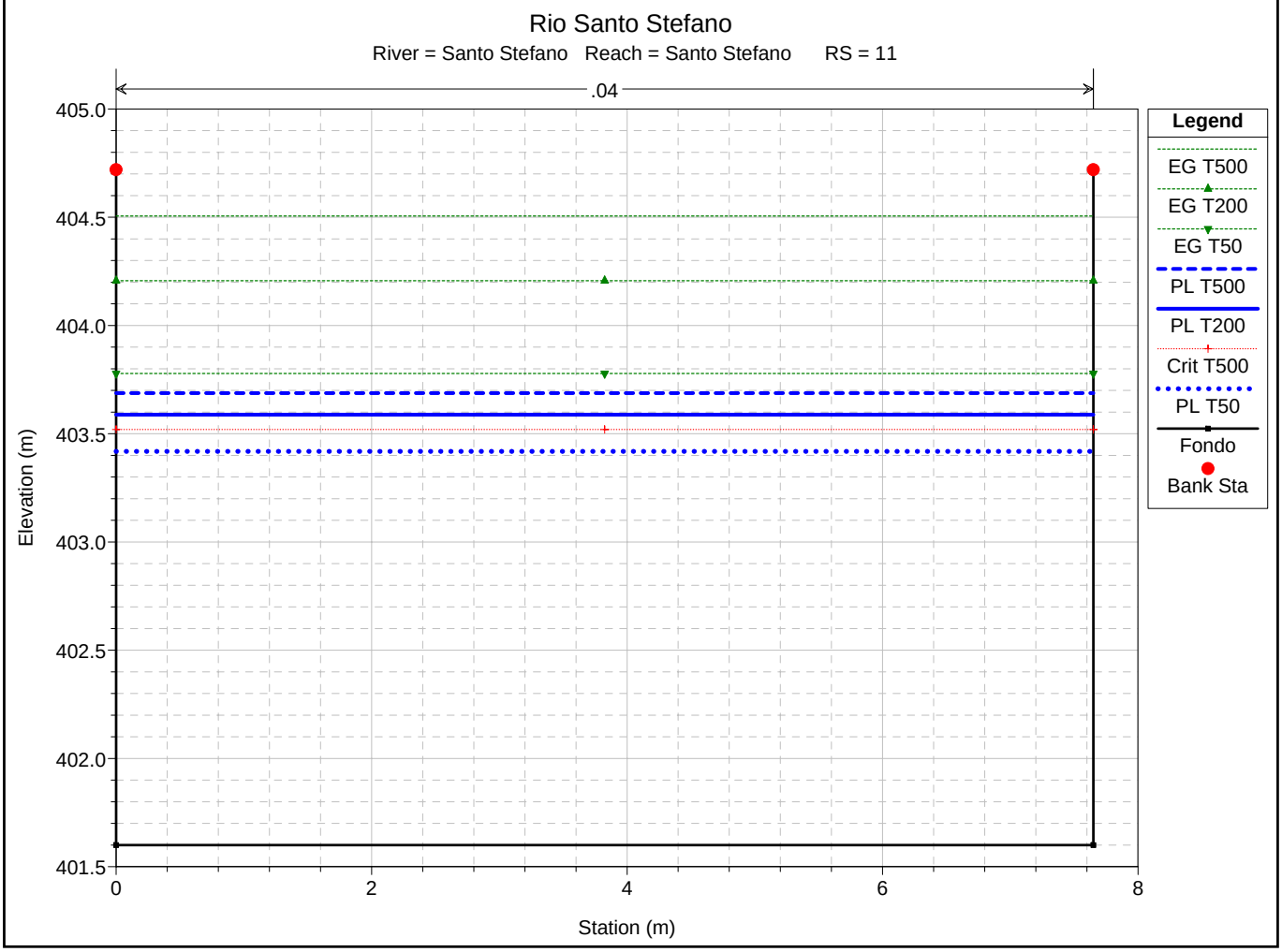
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

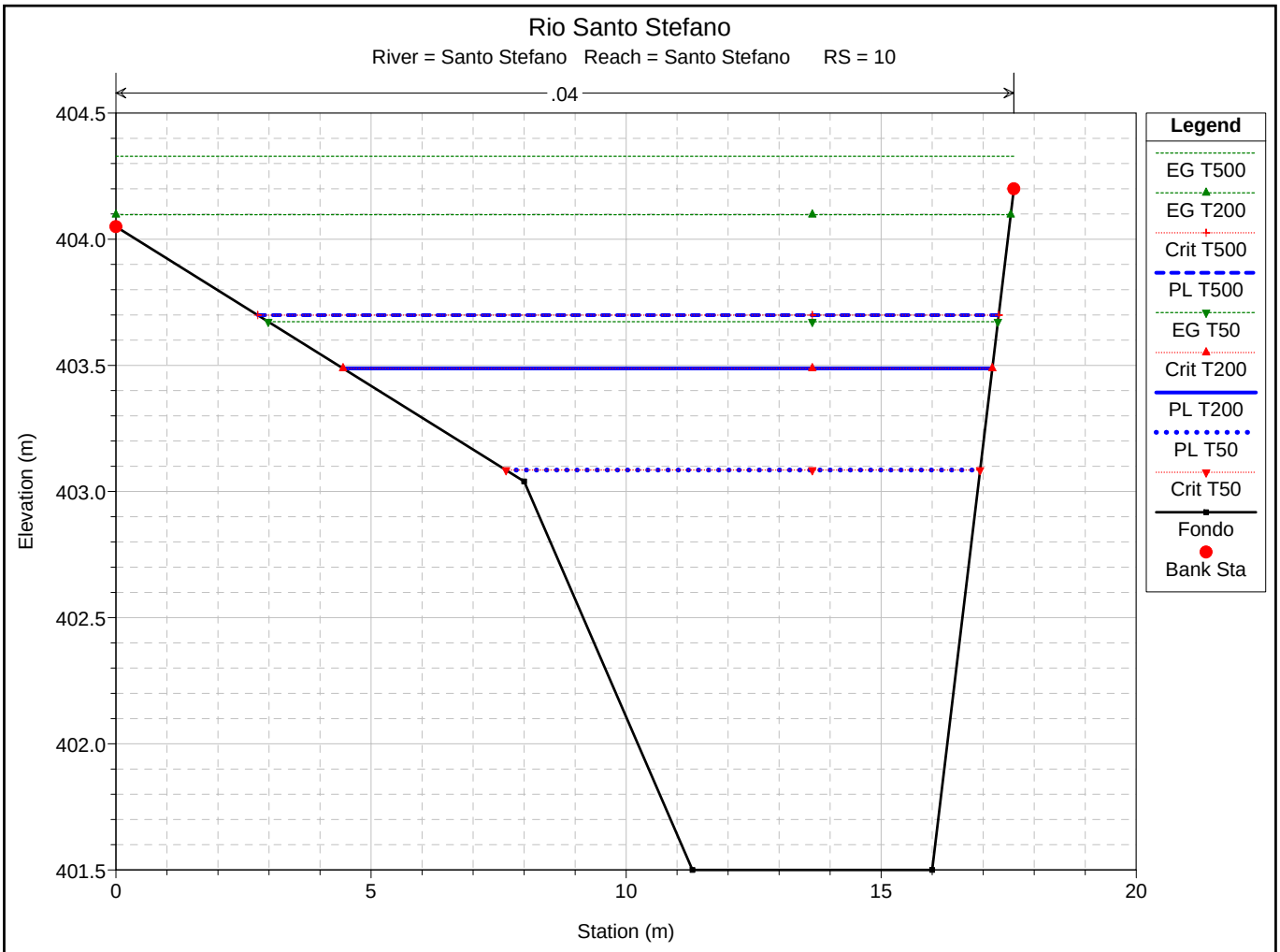

Rio Santo Stefano
Legend
PL T500
PL T200
PL T50
Fondo
Sponda sx
Sponda dx
Elevation (m)
404
402
400
398
0.6
0.8
0.95
1
2
3
4
5
6
7
8
9
10
11
11.2
0
50
100
150
200
250
Main Channel Distance (m)

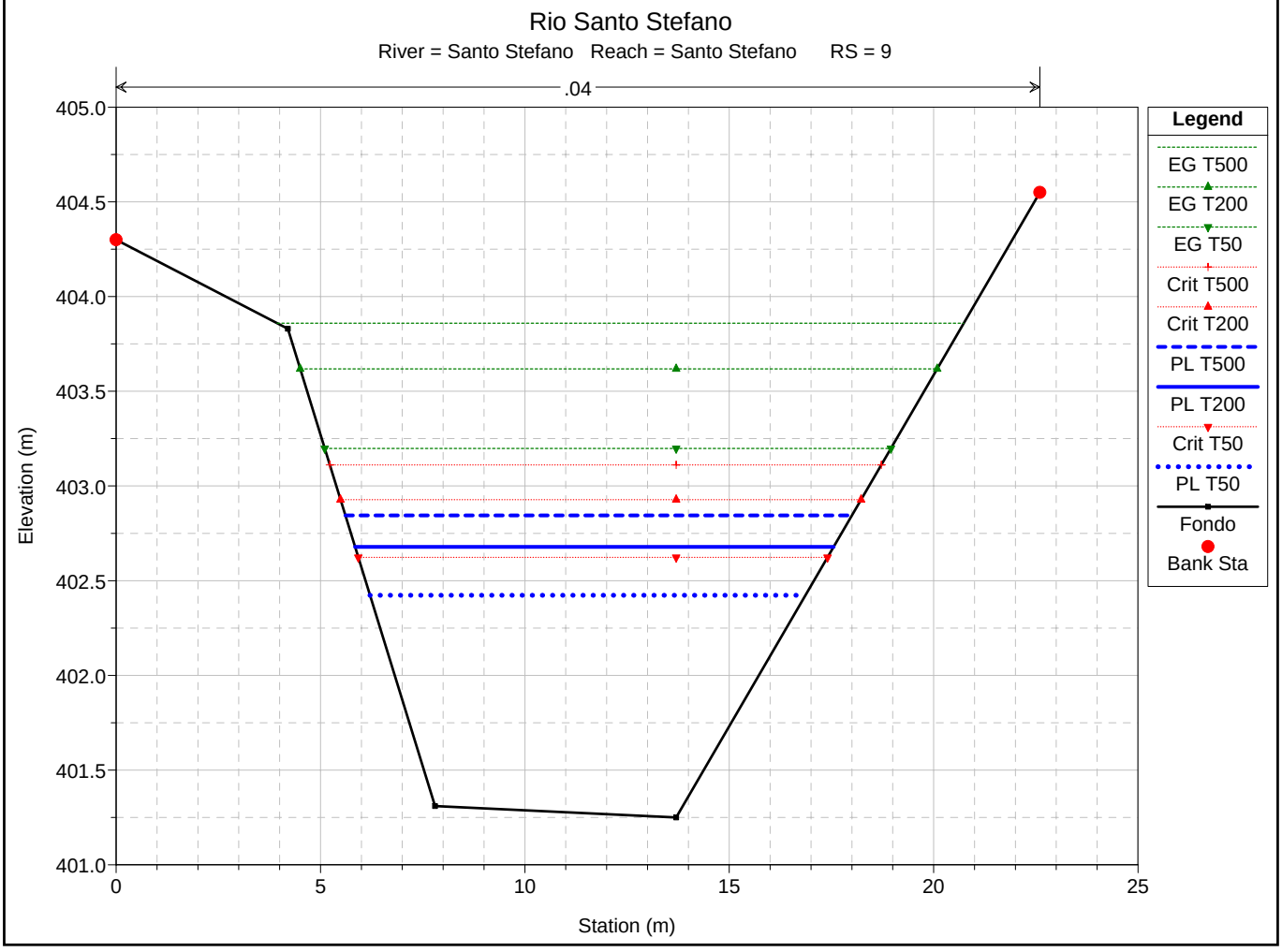

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 11.3
.04
405.0
404.5
404.0
403.5
403.0
402.5
402.0
401.5
Elevation (m)
0
2
4
6
8
Station (m)
Legend
EG T500
EG T200
PL T500
EG T50
PL T200
Crit T500
PL T50
Crit T200
Crit T50
Fondo
Bank Sta

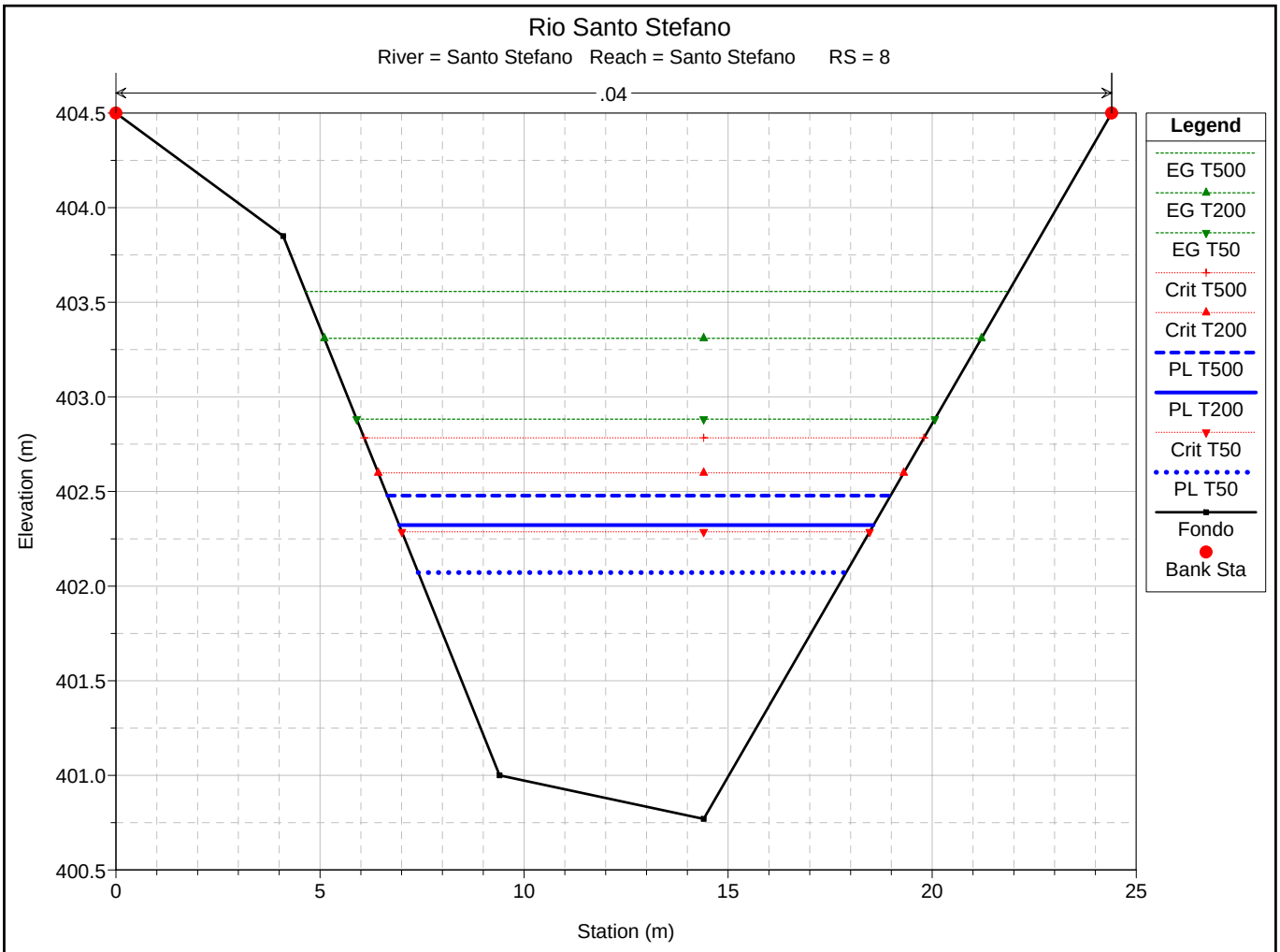

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 11.2
.04
405.0
404.5
404.0
403.5
403.0
402.5
402.0
401.5
Elevation (m)
0
2
4
6
8
Station (m)
Legend
EG T500
EG T200
PL T500
EG T50
PL T200
Crit T500
PL T50
Crit T200
Crit T50
Fondo
Bank Sta

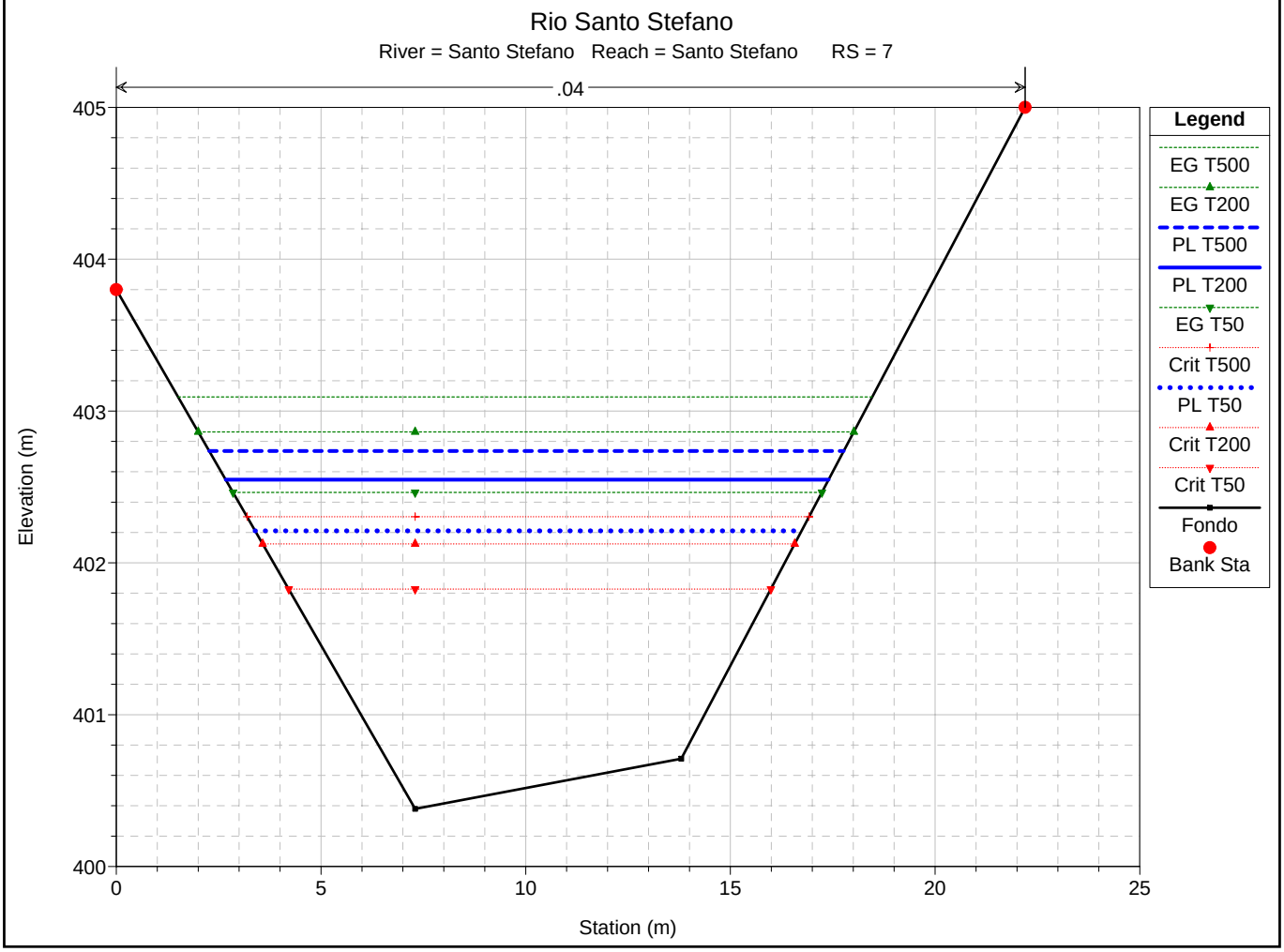

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 11.1
.04
405.0
404.5
404.0
403.5
403.0
402.5
402.0
401.5
Elevation (m)
0
2
4
6
8
Station (m)
Legend
EG T500
EG T200
EG T50
PL T500
PL T200
Crit T500
PL T50
Crit T200
Crit T50
Fondo
Bank Sta

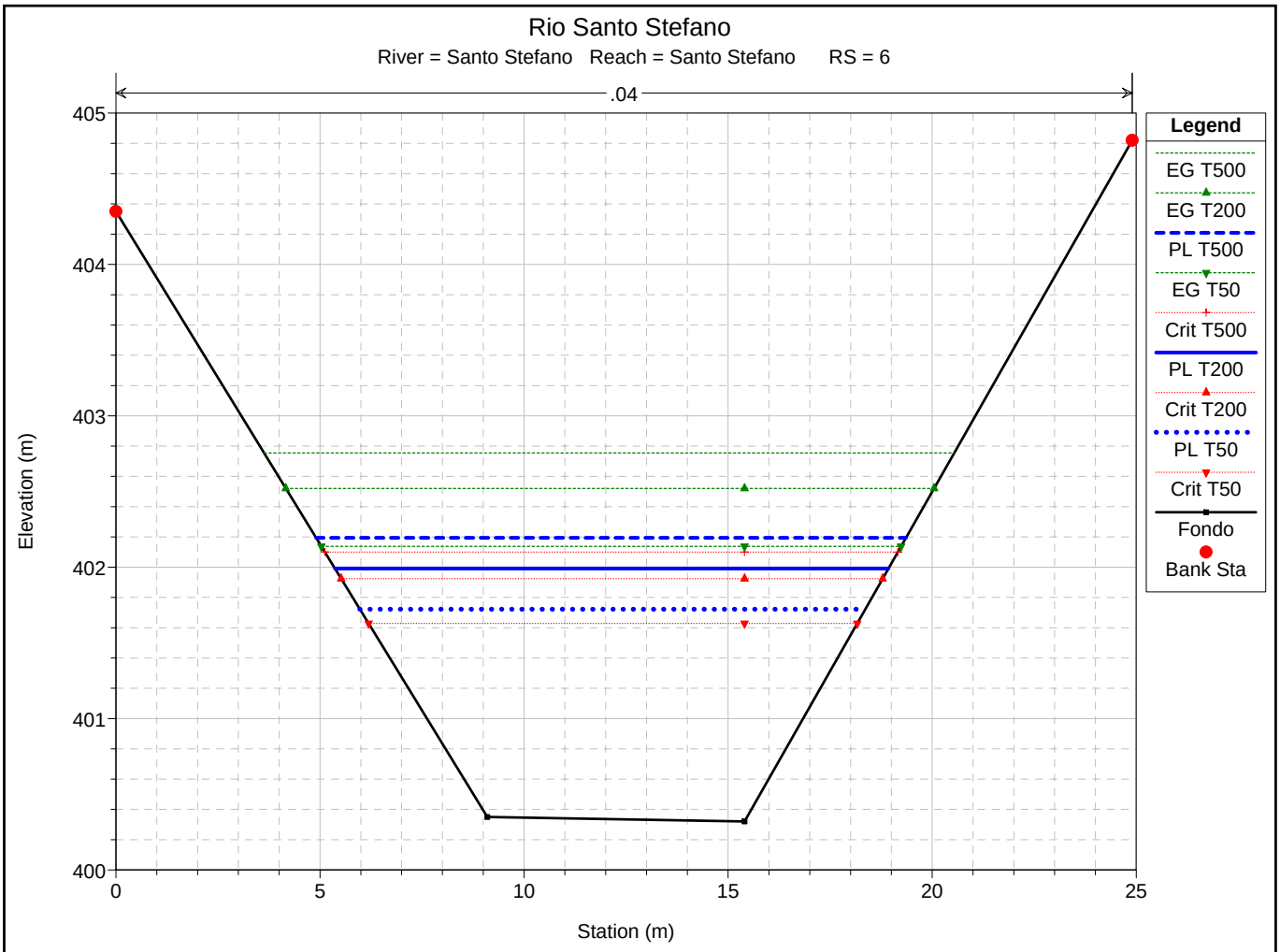

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 11
.04
405.0
404.5
404.0
403.5
403.0
402.5
402.0
401.5
Elevation (m)
0
2
4
6
8
Station (m)
Legend
EG T500
EG T200
EG T50
PL T500
PL T200
Crit T500
PL T50
Fondo
Bank Sta

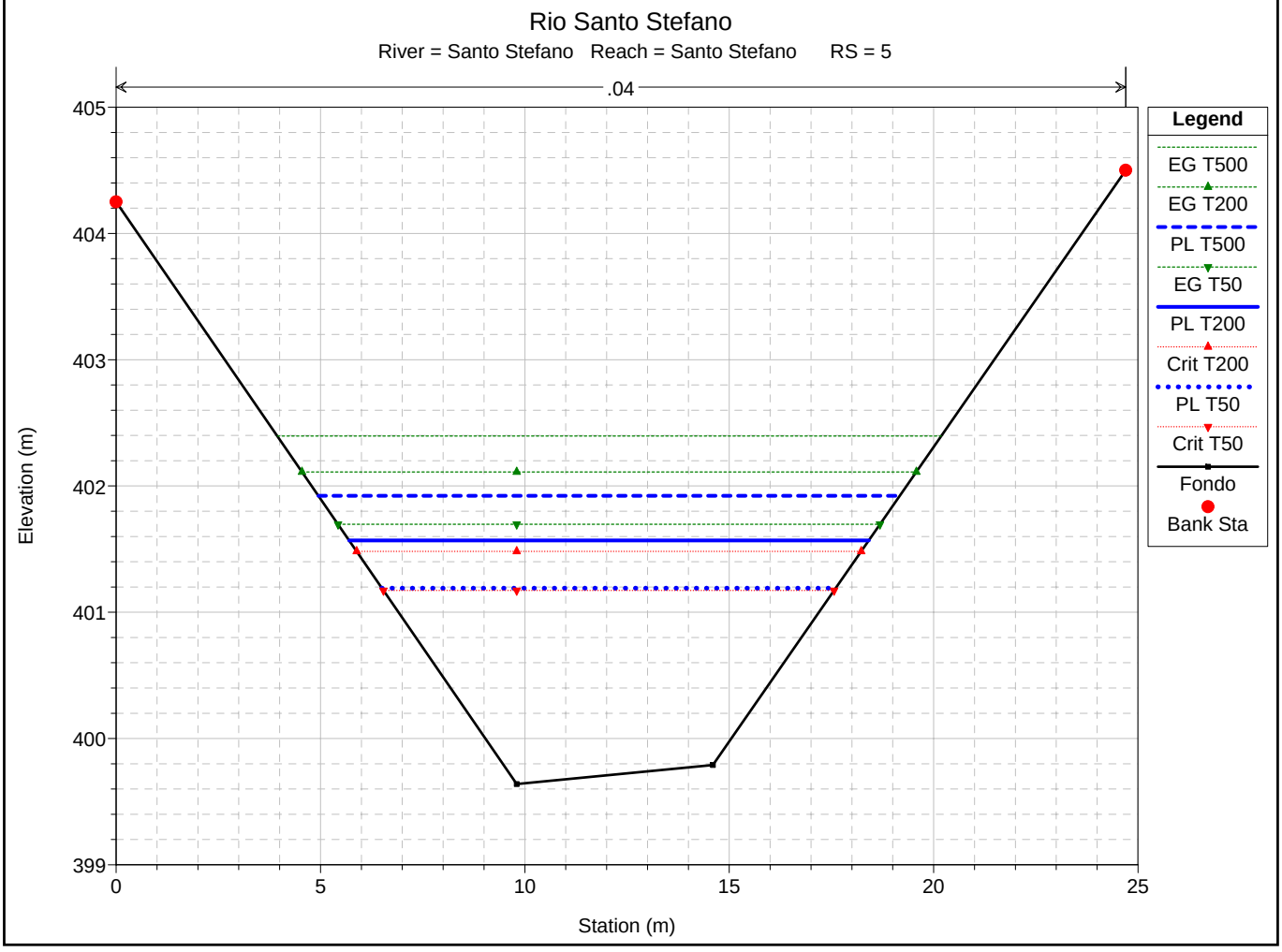

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 10
.04
Elevation (m)
Station (m)
Legend
EG T500
EG T200
Crit T500
PL T500
EG T50
Crit T200
PL T200
PL T50
Crit T50
Fondo
Bank Sta

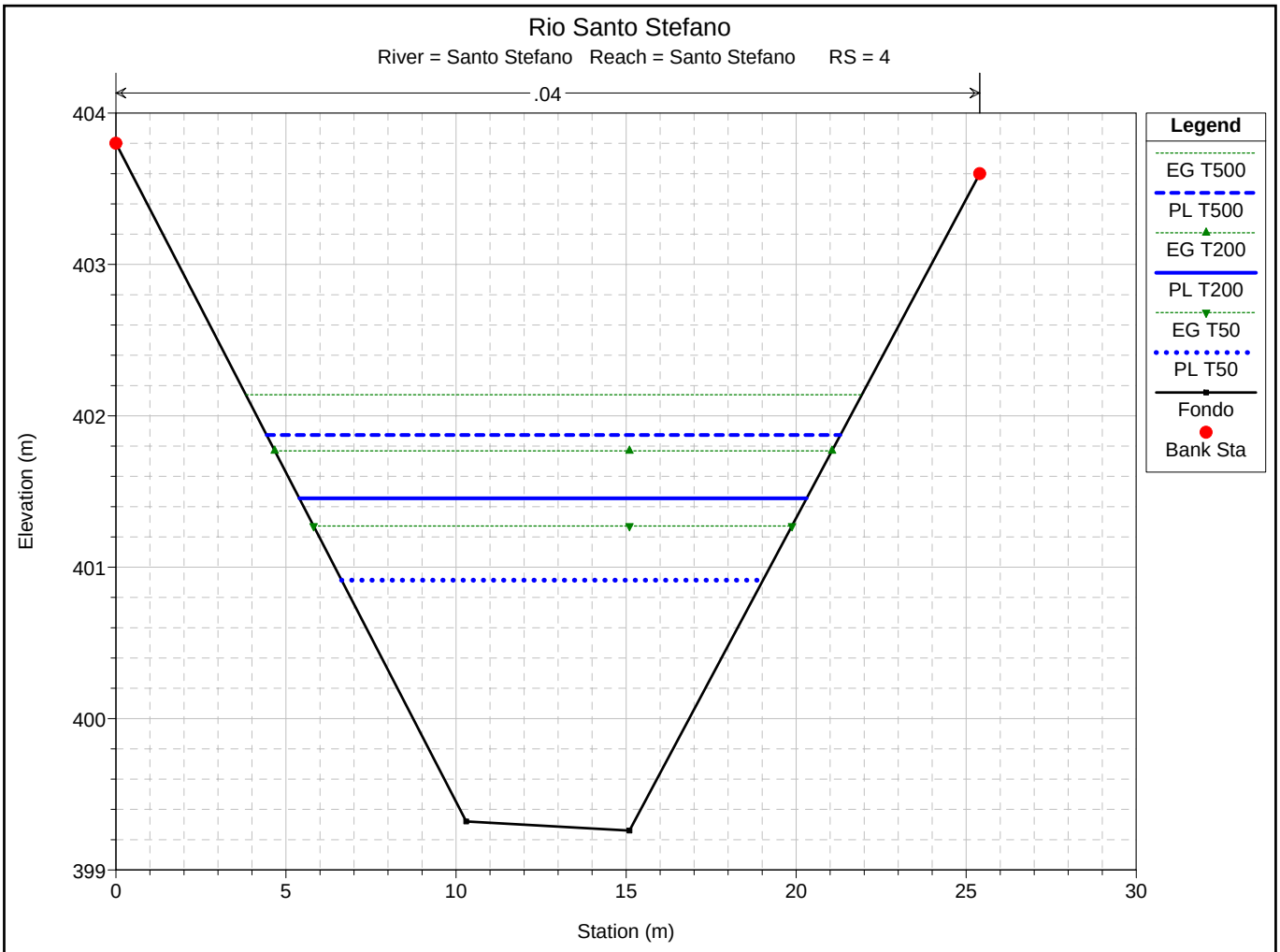

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 9
.04
Elevation (m)
Station (m)
Legend
EG T500
EG T200
EG T50
Crit T500
Crit T200
PL T500
PL T200
Crit T50
PL T50
Fondo
Bank Sta

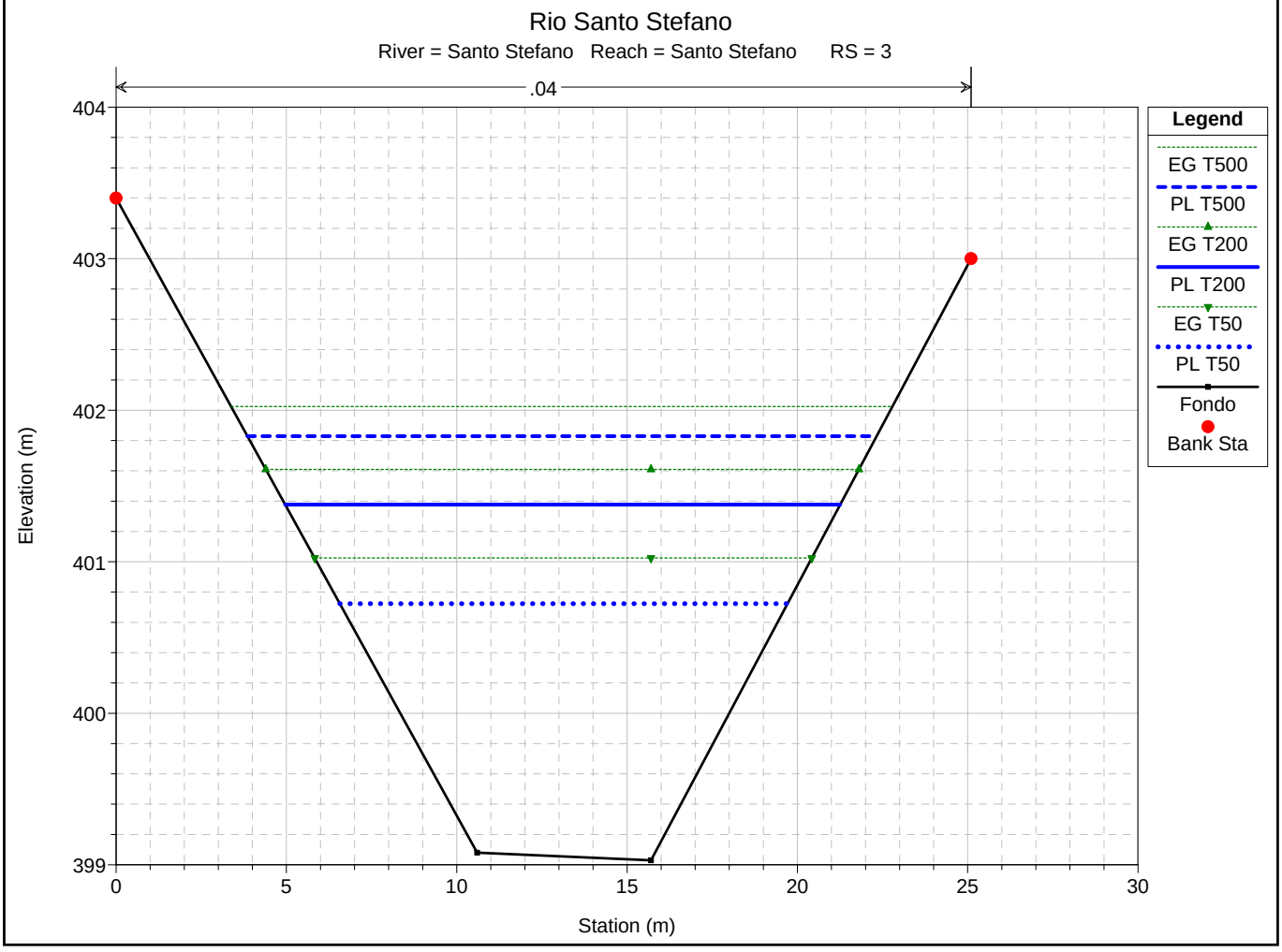

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 8
.04
Elevation (m)
Station (m)
Legend
EG T500
EG T200
EG T50
Crit T500
Crit T200
PL T500
PL T200
Crit T50
PL T50
Fondo
Bank Sta

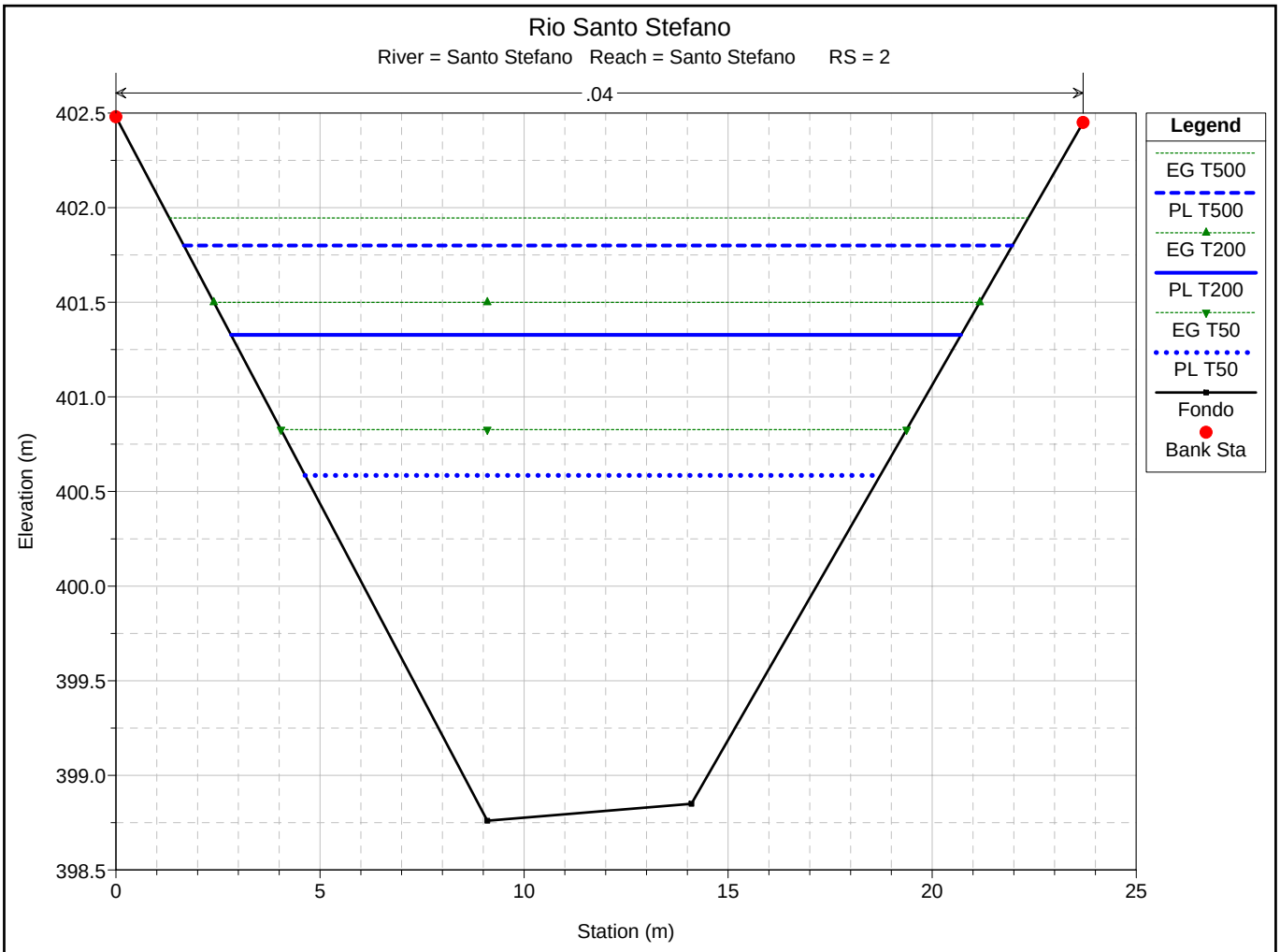

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 7
.04
Elevation (m)
Station (m)
Legend
EG T500
EG T200
PL T500
PL T200
EG T50
Crit T500
PL T50
Crit T200
Crit T50
Fondo
Bank Sta

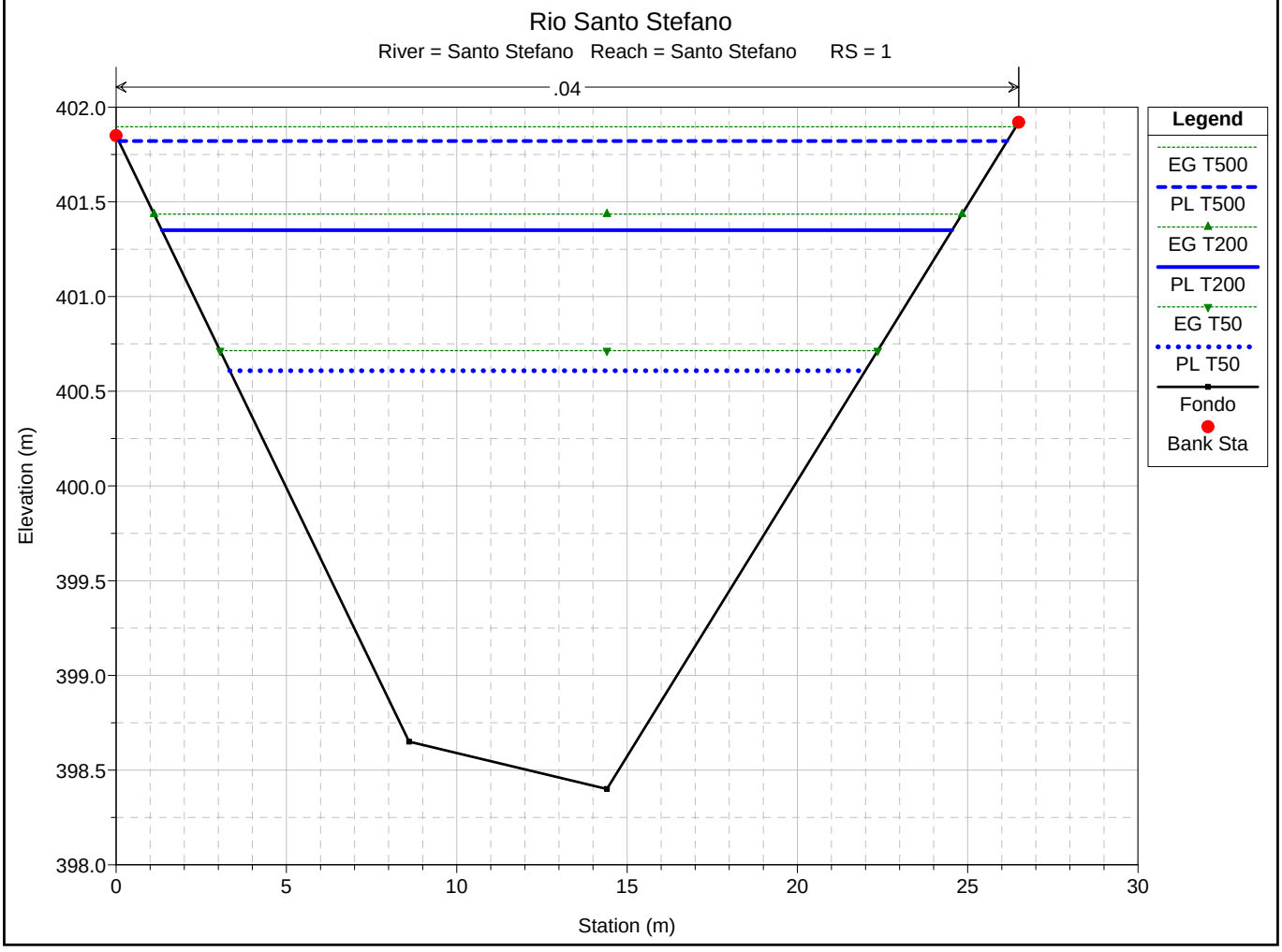

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 6
.04
Legend
EG T500
EG T200
PL T500
EG T50
Crit T500
PL T200
Crit T200
PL T50
Crit T50
Fondo
Bank Sta
Elevation (m)
Station (m)
405
404
403
402
401
400
0
5
10
15
20
25

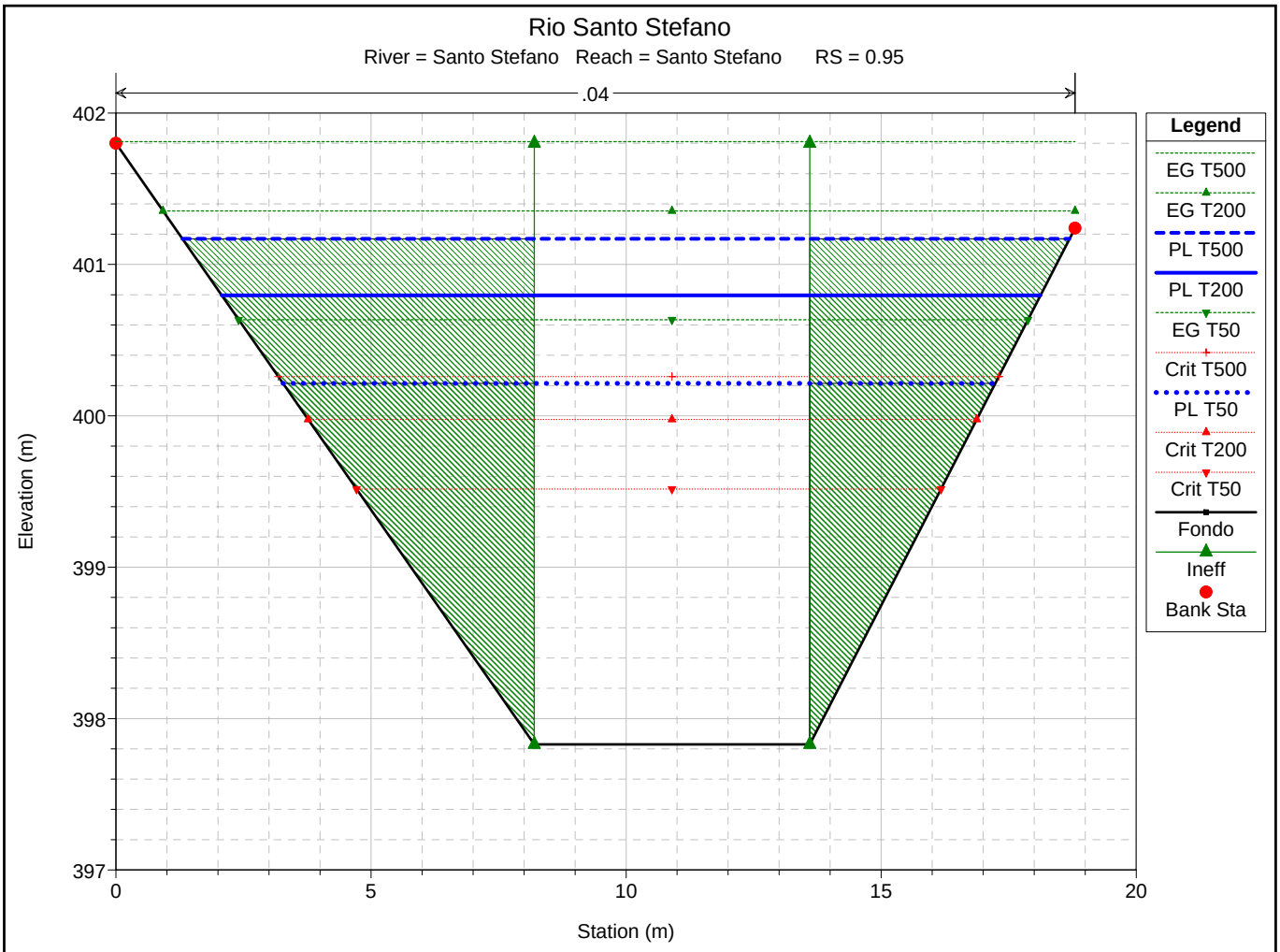

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 5
.04
Legend
EG T500
EG T200
PL T500
EG T50
PL T200
Crit T200
PL T50
Crit T50
Fondo
Bank Sta
Elevation (m)
Station (m)
405
404
403
402
401
400
399
0
5
10
15
20
25

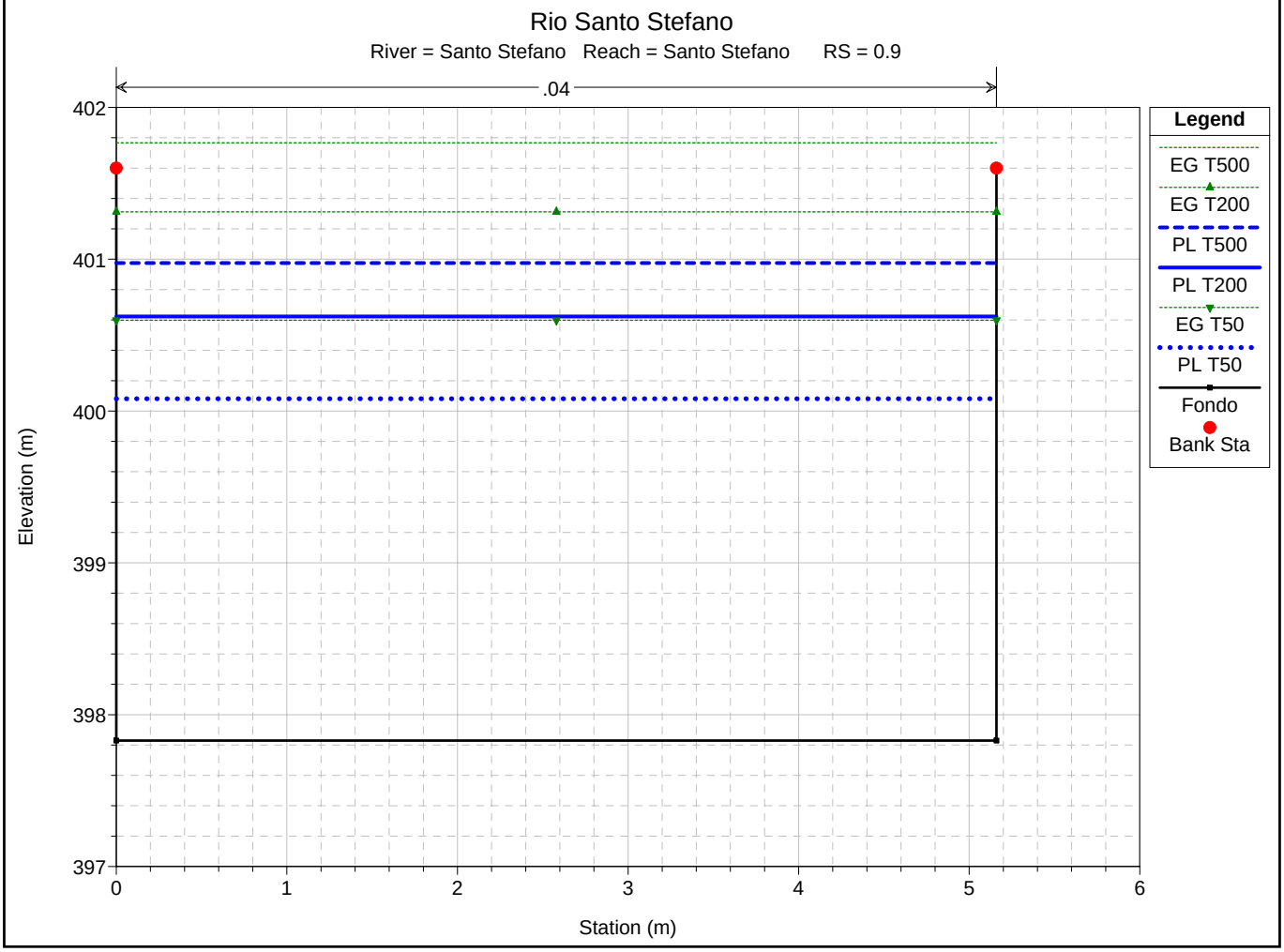

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 4
.04
Legend
EG T500
PL T500
EG T200
PL T200
EG T50
PL T50
Fondo
Bank Sta
Elevation (m)
Station (m)
404
403
402
401
400
399
0
5
10
15
20
25
30


Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 3
.04
Legend
EG T500
PL T500
EG T200
PL T200
EG T50
PL T50
Fondo
Bank Sta
Elevation (m)
Station (m)
404
403
402
401
400
399
0
5
10
15
20
25
30


Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 2
.04
Legend
EG T500
PL T500
EG T200
PL T200
EG T50
PL T50
Fondo
Bank Sta
Elevation (m)
Station (m)
402.5
402.0
401.5
401.0
400.5
400.0
399.5
399.0
398.5
0
5
10
15
20
25

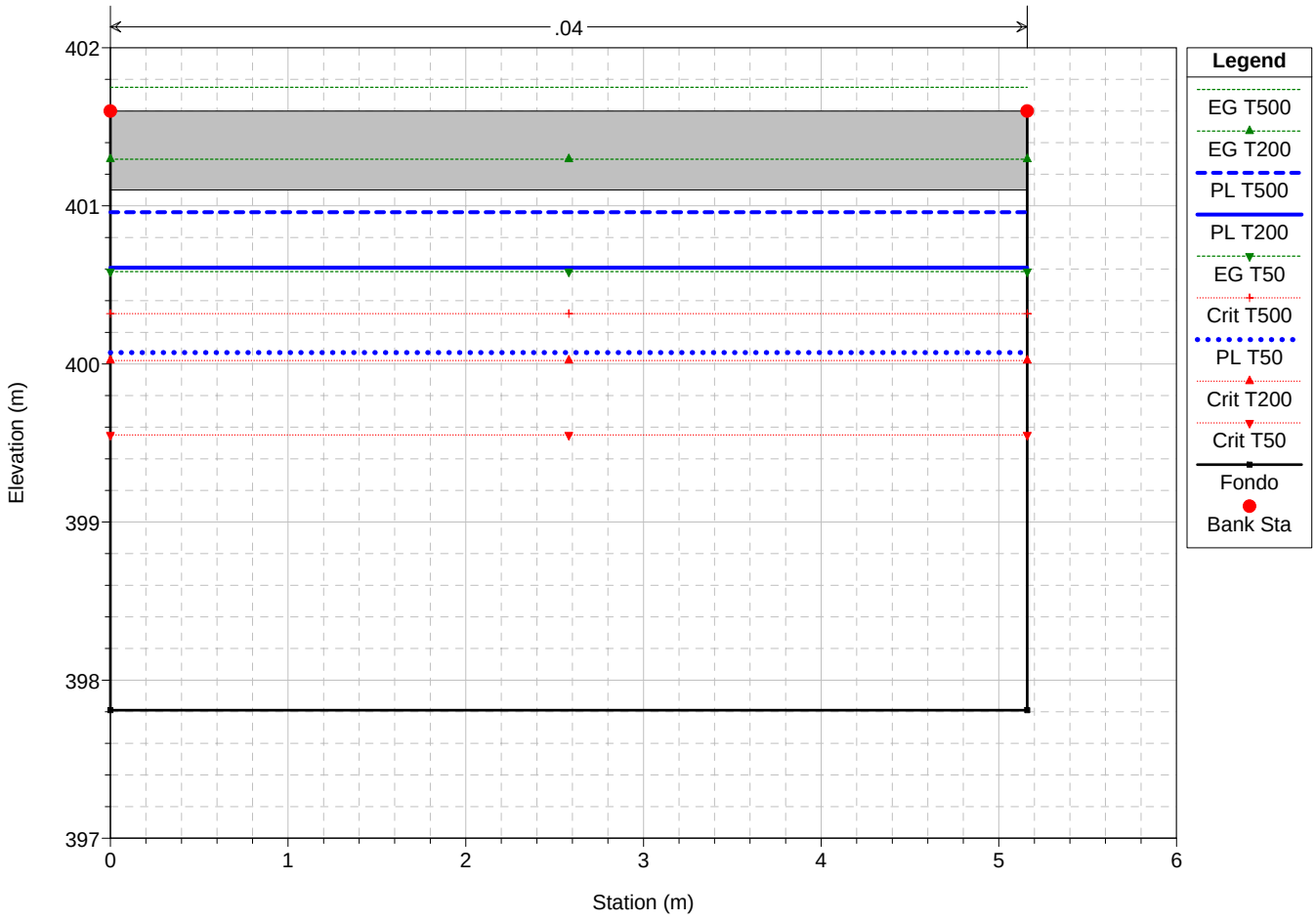

Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 1
.04
Legend
EG T500
PL T500
EG T200
PL T200
EG T50
PL T50
Fondo
Bank Sta
Elevation (m)
Station (m)
402.0
401.5
401.0
400.5
400.0
399.5
399.0
398.5
398.0
0
5
10
15
20
25
30


Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 0.95
.04
Elevation (m)
Station (m)
Legend
EG T500
EG T200
PL T500
PL T200
EG T50
Crit T500
PL T50
Crit T200
Crit T50
Fondo
Ineff
Bank Sta


Rio Santo Stefano
River = Santo Stefano Reach = Santo Stefano RS = 0.9
.04
Elevation (m)
Station (m)
Legend
EG T500
EG T200
PL T500
PL T200
EG T50
PL T50
Fondo
Bank Sta

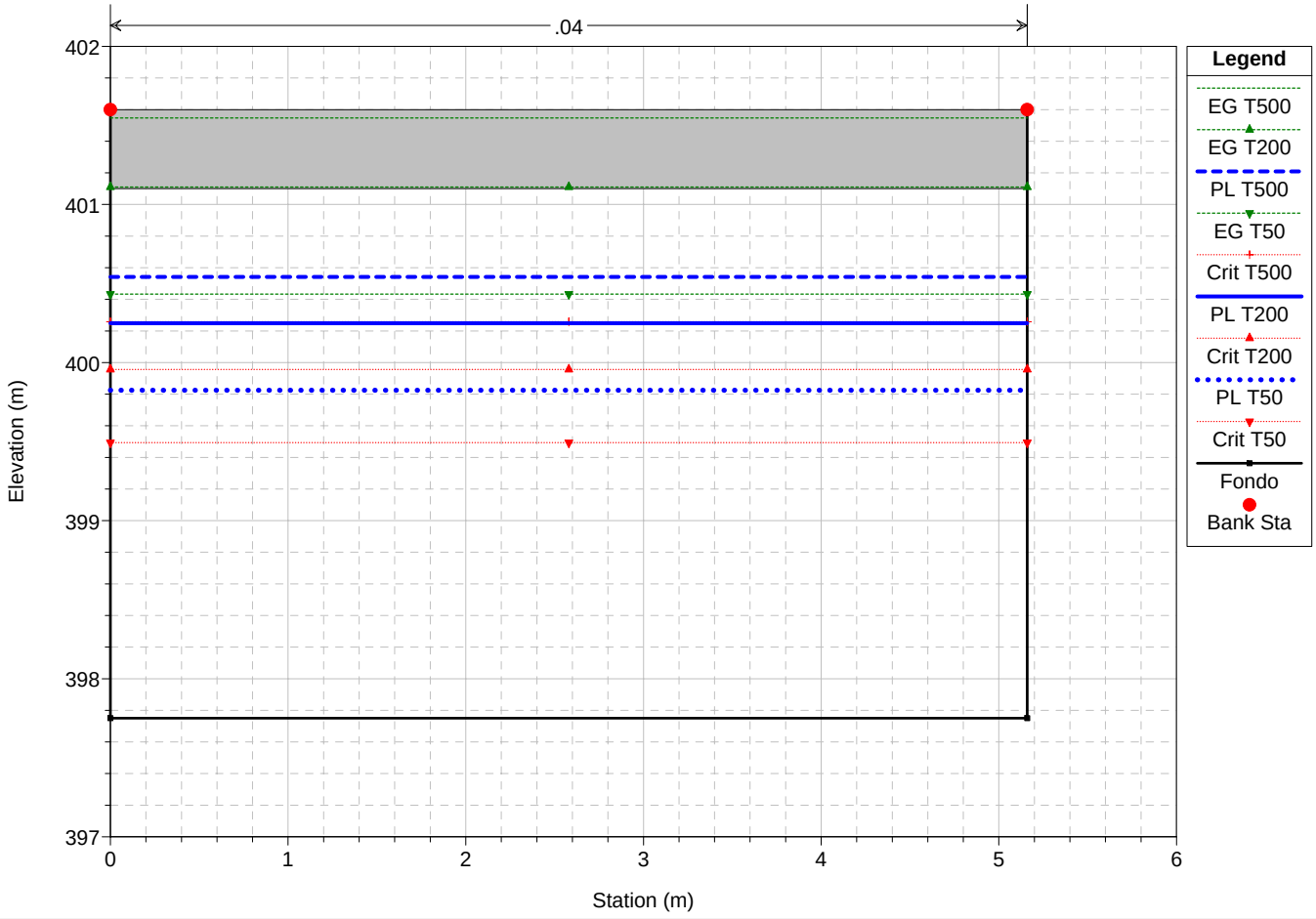
Rio Santo Stefano

River = Santo Stefano Reach = Santo Stefano RS = 0.8



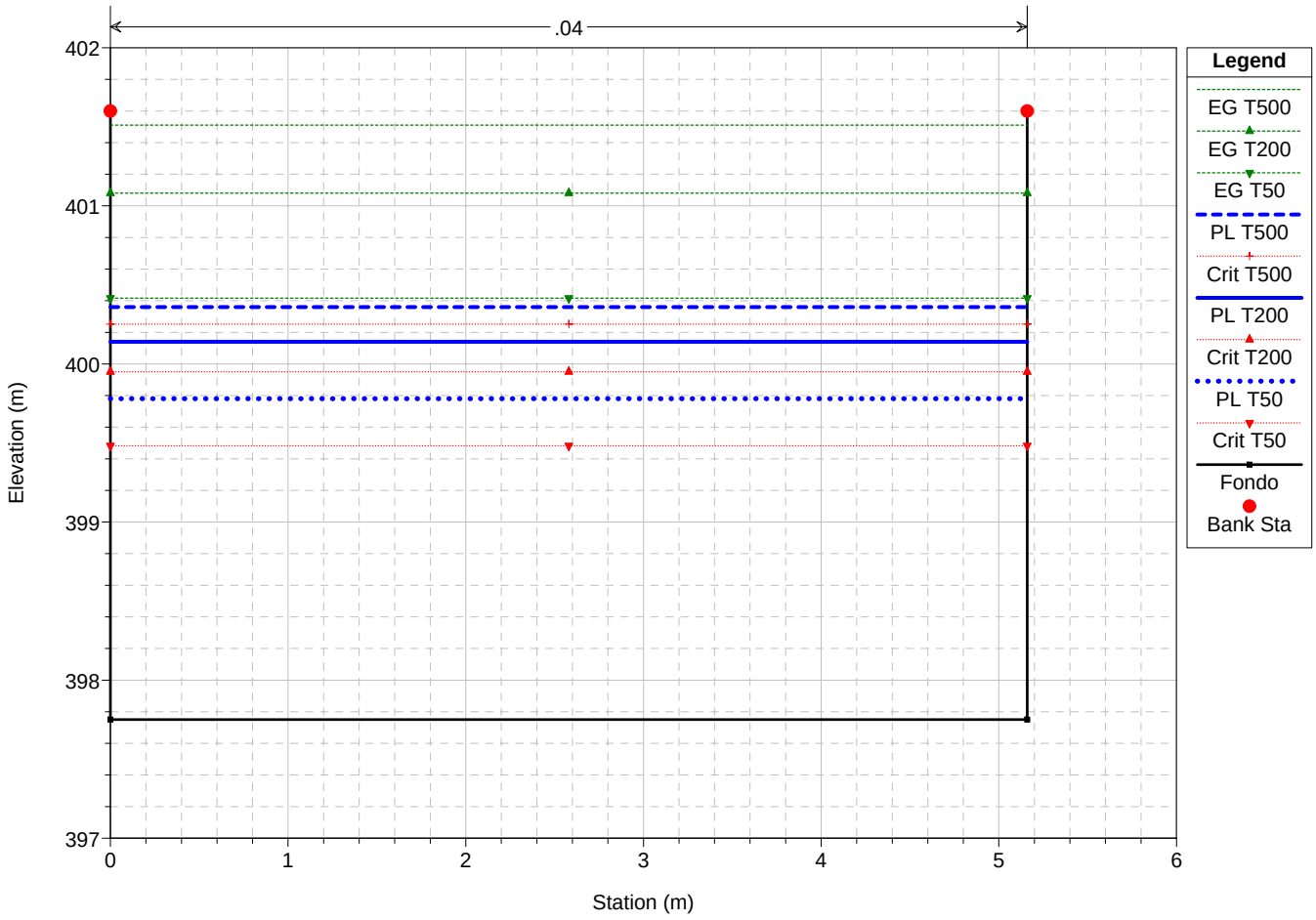
Rio Santo Stefano

River = Santo Stefano Reach = Santo Stefano RS = 0.7



Rio Santo Stefano

River = Santo Stefano Reach = Santo Stefano RS = 0.6



HEC-RAS Plan: att River: Santo Stefano Reach: Santo Stefano

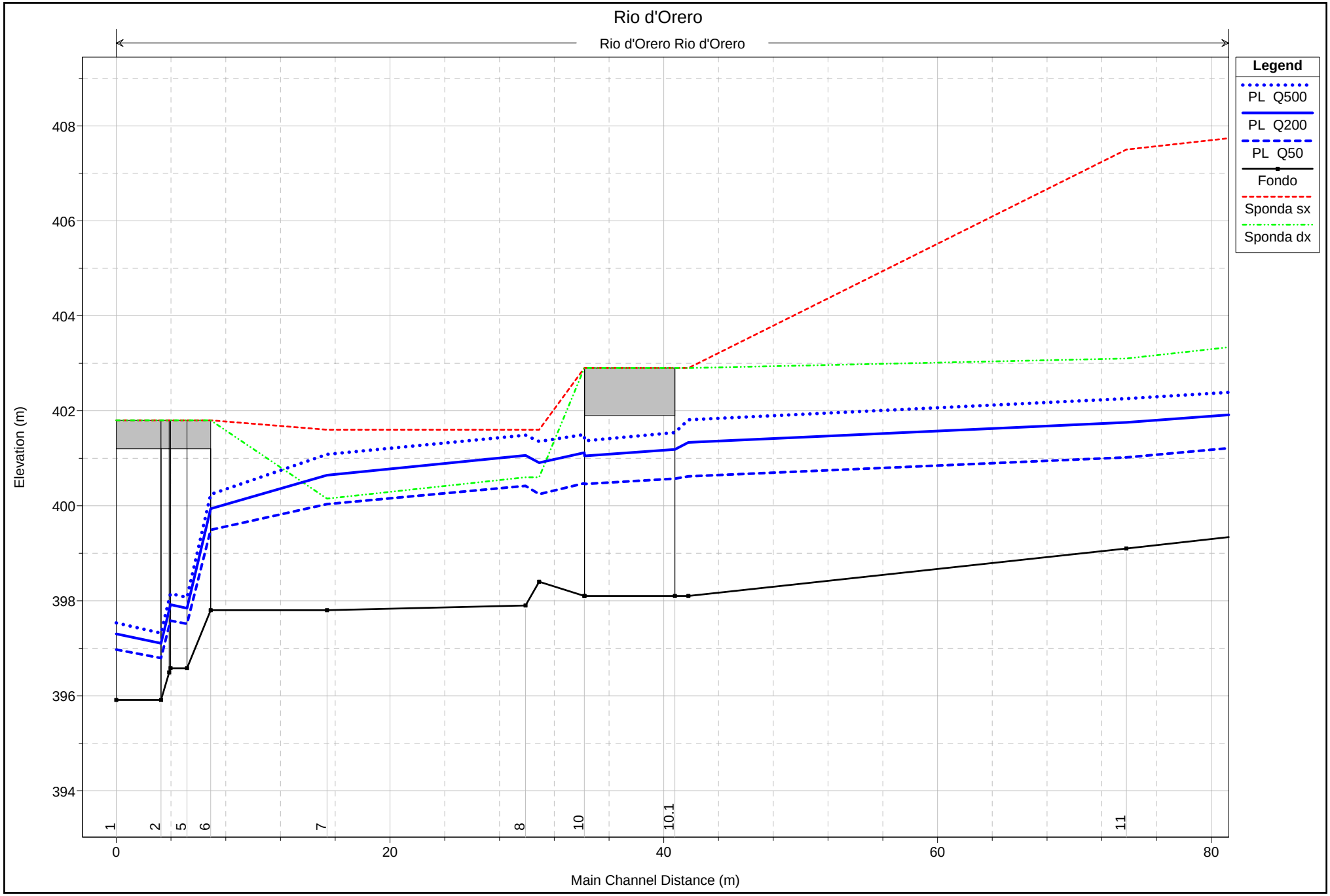
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Santo Stefano	11.3	T500	64.00	401.66	404.00	404.72	0.73	404.72	0.73	403.58	404.65	0.012517	3.58	17.86	7.65	0.75
Santo Stefano	11.3	T200	53.00	401.66	403.78	404.72	0.94	404.72	0.94	403.36	404.32	0.011279	3.27	16.23	7.65	0.72
Santo Stefano	11.3	T50	37.00	401.66	403.51	404.72	1.21	404.72	1.21	402.99	403.86	0.008173	2.62	14.14	7.65	0.61
Santo Stefano	11.2	T500	64.00	401.65	403.98	404.00	0.02	404.00	0.02	403.58	404.64	0.012595	3.59	17.82	7.65	0.75
Santo Stefano	11.2	T200	53.00	401.65	403.77	404.00	0.23	404.00	0.23	403.35	404.31	0.011317	3.27	16.21	7.65	0.72
Santo Stefano	11.2	T50	37.00	401.65	403.50	404.00	0.50	404.00	0.50	402.99	403.85	0.008149	2.61	14.15	7.65	0.61
Santo Stefano	11.1	T500	64.00	401.61	403.73	404.00	0.27	404.00	0.27	403.54	404.52	0.016545	3.95	16.19	7.65	0.87
Santo Stefano	11.1	T200	53.00	401.61	403.61	404.00	0.39	404.00	0.39	403.31	404.22	0.013441	3.47	15.26	7.65	0.78
Santo Stefano	11.1	T50	37.00	401.61	403.43	404.00	0.57	404.00	0.57	402.95	403.79	0.008577	2.66	13.90	7.65	0.63
Santo Stefano	11	T500	64.00	401.60	403.69	404.72	1.03	404.72	1.03	403.52	404.51	0.017208	4.01	15.97	7.65	0.89
Santo Stefano	11	T200	53.00	401.60	403.59	404.72	1.13	404.72	1.13		404.21	0.013578	3.48	15.21	7.65	0.79
Santo Stefano	11	T50	37.00	401.60	403.42	404.72	1.30	404.72	1.30		403.78	0.008567	2.66	13.91	7.65	0.63
Santo Stefano	10	T500	64.00	401.50	403.70	404.05	0.35	404.20	0.50	403.70	404.33	0.016868	3.52	18.21	14.52	1.00
Santo Stefano	10	T200	53.00	401.50	403.49	404.05	0.56	404.20	0.71	403.49	404.10	0.017320	3.46	15.33	12.73	1.01
Santo Stefano	10	T50	37.00	401.50	403.08	404.05	0.97	404.20	1.12	403.08	403.67	0.017685	3.40	10.89	9.29	1.00
Santo Stefano	9	T500	64.00	401.25	402.84	404.30	1.46	404.55	1.71	403.11	403.86	0.028424	4.46	14.34	12.39	1.32
Santo Stefano	9	T200	53.00	401.25	402.68	404.30	1.62	404.55	1.87	402.93	403.62	0.029666	4.29	12.34	11.71	1.33
Santo Stefano	9	T50	37.00	401.25	402.42	404.30	1.88	404.55	2.13	402.62	403.20	0.030435	3.90	9.49	10.65	1.32
Santo Stefano	8	T500	64.00	400.77	402.48	404.50	2.02	404.50	2.02	402.78	403.56	0.031017	4.60	13.91	12.33	1.38
Santo Stefano	8	T200	53.00	400.77	402.32	404.50	2.18	404.50	2.18	402.60	403.31	0.031684	4.40	12.04	11.62	1.38
Santo Stefano	8	T50	37.00	400.77	402.07	404.50	2.43	404.50	2.43	402.29	402.88	0.031953	3.99	9.27	10.48	1.35
Santo Stefano	7	T500	64.00	400.38	402.74	403.80	1.06	405.00	2.26	402.30	403.09	0.006734	2.65	24.19	15.50	0.68
Santo Stefano	7	T200	53.00	400.38	402.55	403.80	1.25	405.00	2.45	402.12	402.86	0.006526	2.48	21.35	14.73	0.66
Santo Stefano	7	T50	37.00	400.38	402.21	403.80	1.59	405.00	2.79	401.83	402.46	0.006390	2.23	16.62	13.35	0.64
Santo Stefano	6	T500	64.00	400.32	402.19	404.35	2.16	404.82	2.63	402.10	402.76	0.012882	3.32	19.29	14.45	0.92
Santo Stefano	6	T200	53.00	400.32	401.99	404.35	2.36	404.82	2.83	401.92	402.52	0.013762	3.22	16.45	13.56	0.93
Santo Stefano	6	T50	37.00	400.32	401.72	404.35	2.63	404.82	3.10	401.63	402.14	0.013065	2.85	12.96	12.38	0.89
Santo Stefano	5	T500	64.00	399.64	401.92	404.25	2.33	404.50	2.58		402.40	0.009660	3.05	21.00	14.22	0.80
Santo Stefano	5	T200	53.00	399.64	401.57	404.25	2.68	404.50	2.93	401.48	402.11	0.013372	3.26	16.24	12.71	0.92
Santo Stefano	5	T50	37.00	399.64	401.19	404.25	3.06	404.50	3.31	401.17	401.70	0.015958	3.15	11.73	11.10	0.98
Santo Stefano	4	T500	64.00	399.26	401.87	403.80	1.93	403.60	1.73		402.14	0.004618	2.29	27.99	16.87	0.57
Santo Stefano	4	T200	53.00	399.26	401.45	403.80	2.35	403.60	2.15		401.77	0.006608	2.48	21.35	14.92	0.66
Santo Stefano	4	T50	37.00	399.26	400.91	403.80	2.89	403.60	2.69		401.27	0.010264	2.65	13.97	12.39	0.80
Santo Stefano	3	T500	64.00	399.03	401.83	403.40	1.57	403.00	1.17		402.02	0.003097	1.96	32.69	18.47	0.47
Santo Stefano	3	T200	53.00	399.03	401.38	403.40	2.02	403.00	1.62		401.61	0.004469	2.13	24.84	16.29	0.55
Santo Stefano	3	T50	37.00	399.03	400.72	403.40	2.68	403.00	2.28		401.02	0.008308	2.43	15.22	13.14	0.72
Santo Stefano	2	T500	64.00	398.76	401.80	402.48	0.68	402.45	0.65		401.95	0.002139	1.69	37.87	20.30	0.39
Santo Stefano	2	T200	53.00	398.76	401.33	402.48	1.15	402.45	1.12		401.50	0.003056	1.84	28.86	17.89	0.46
Santo Stefano	2	T50	37.00	398.76	400.59	402.48	1.90	402.45	1.87		400.83	0.006297	2.18	16.99	14.09	0.63

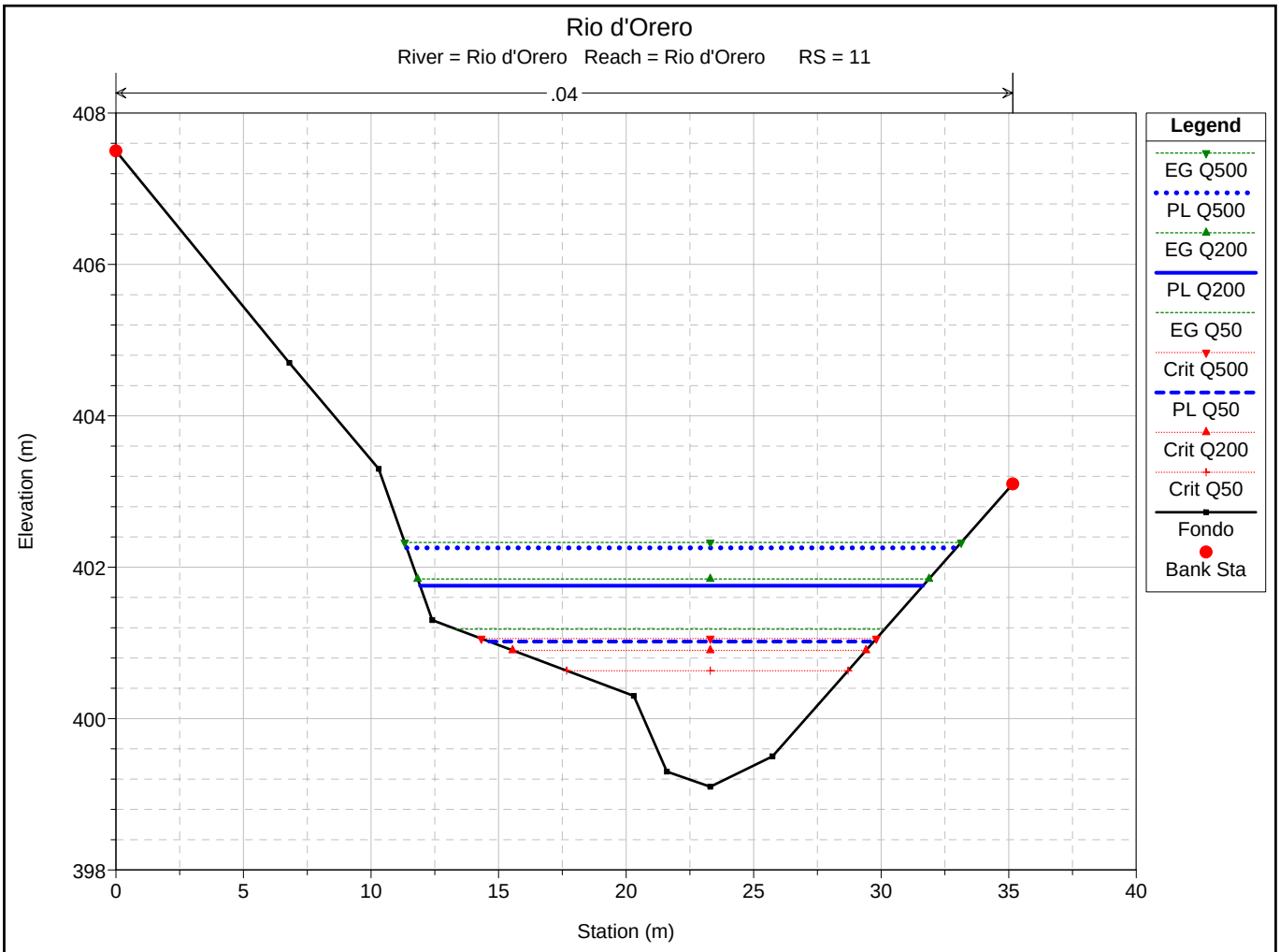
HEC-RAS Plan: att River: Santo Stefano Reach: Santo Stefano (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Santo Stefano	1	T500	64.00	398.40	401.82	401.85	0.03	401.92	0.10		401.90	0.000971	1.21	52.76	26.08	0.27
Santo Stefano	1	T200	53.00	398.40	401.35	401.85	0.50	401.92	0.57		401.44	0.001300	1.29	41.17	23.20	0.31
Santo Stefano	1	T50	37.00	398.40	400.61	401.85	1.24	401.92	1.31		400.71	0.002288	1.44	25.64	18.66	0.39
Santo Stefano	0.95	T500	64.00	397.83	401.17	401.80	0.63	401.24	0.07	400.26	401.81	0.004035	3.55	18.04	17.39	0.62
Santo Stefano	0.95	T200	53.00	397.83	400.80	401.80	1.00	401.24	0.44	399.98	401.35	0.004112	3.31	16.02	16.05	0.61
Santo Stefano	0.95	T50	37.00	397.83	400.21	401.80	1.59	401.24	1.03	399.52	400.63	0.004148	2.87	12.88	13.96	0.59
Santo Stefano	0.9	T500	64.00	397.83	400.97	401.60	0.63	401.60	0.63		401.77	0.015636	3.94	16.23	5.16	0.71
Santo Stefano	0.9	T200	53.00	397.83	400.62	401.60	0.98	401.60	0.98		401.31	0.014634	3.68	14.41	5.16	0.70
Santo Stefano	0.9	T50	37.00	397.83	400.08	401.60	1.52	401.60	1.52		400.60	0.012694	3.18	11.62	5.16	0.68
Santo Stefano	0.8	T500	64.00	397.81	400.96	401.10	0.14	401.10	0.14	400.32	401.75	0.015568	3.94	16.25	5.16	0.71
Santo Stefano	0.8	T200	53.00	397.81	400.61	401.10	0.49	401.10	0.49	400.02	401.30	0.014545	3.67	14.44	5.16	0.70
Santo Stefano	0.8	T50	37.00	397.81	400.07	401.10	1.03	401.10	1.03	399.55	400.58	0.012535	3.17	11.67	5.16	0.67
Santo Stefano	0.7	T500	64.00	397.75	400.54	401.10	0.56	401.10	0.56	400.26	401.55	0.021368	4.44	14.40	5.16	0.85
Santo Stefano	0.7	T200	53.00	397.75	400.25	401.10	0.85	401.10	0.85	399.96	401.11	0.019659	4.11	12.90	5.16	0.83
Santo Stefano	0.7	T50	37.00	397.75	399.82	401.10	1.28	401.10	1.28	399.49	400.43	0.015865	3.46	10.71	5.16	0.77
Santo Stefano	0.6	T500	64.00	397.75	400.36	401.60	1.24	401.60	1.24	400.25	401.51	0.025534	4.75	13.47	5.16	0.94
Santo Stefano	0.6	T200	53.00	397.75	400.14	401.60	1.46	401.60	1.46	399.95	401.08	0.022168	4.30	12.33	5.16	0.89
Santo Stefano	0.6	T50	37.00	397.75	399.78	401.60	1.82	401.60	1.82	399.48	400.42	0.016841	3.53	10.47	5.16	0.79

Rio Orero

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


Rio d'Orero
Rio d'Orero Rio d'Orero
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
408
406
404
402
400
398
396
394
1
2
5
6
7
8
10
10.1
11
0
20
40
60
80
Main Channel Distance (m)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.04
Elevation (m)
Station (m)
Legend
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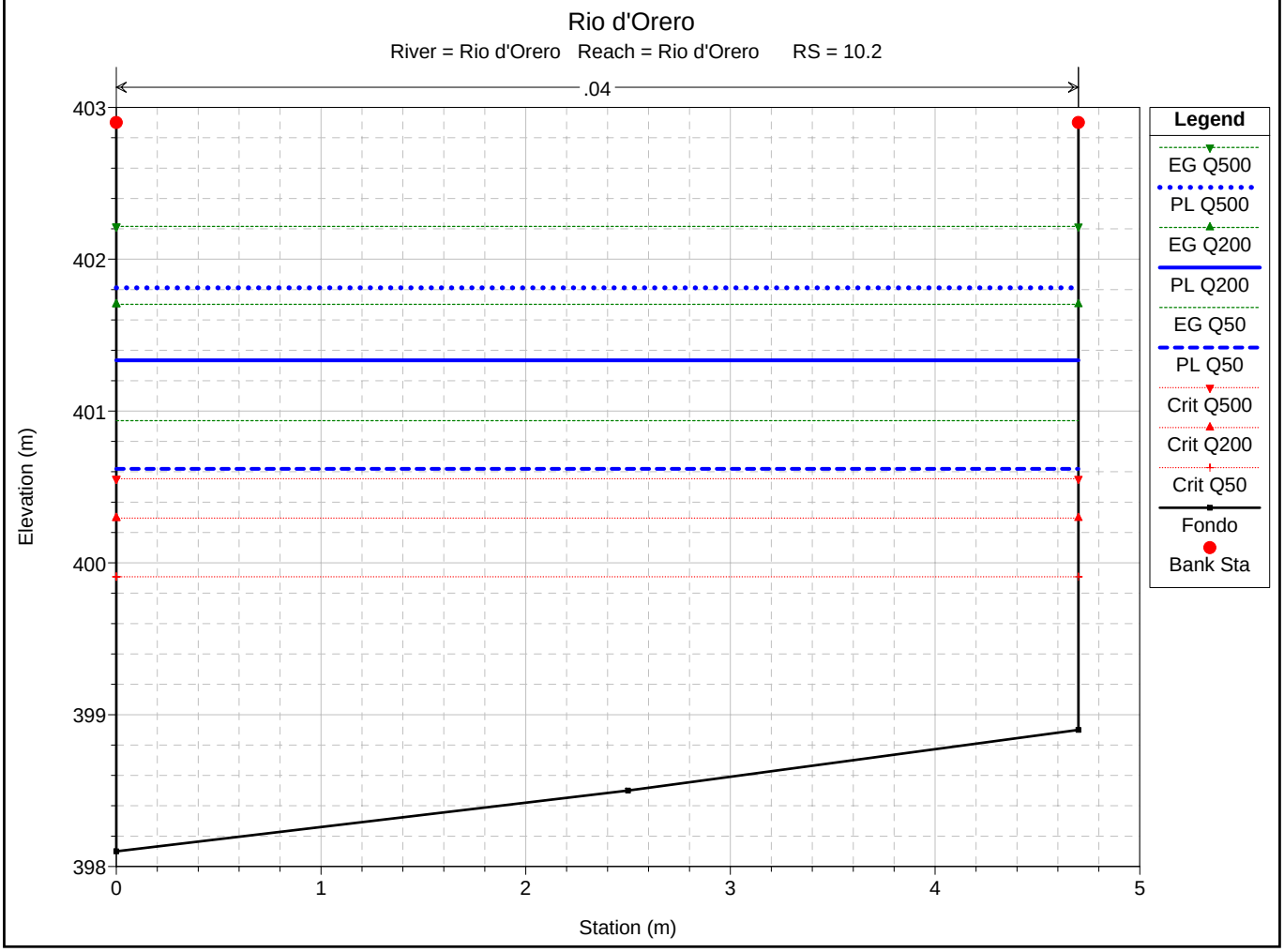
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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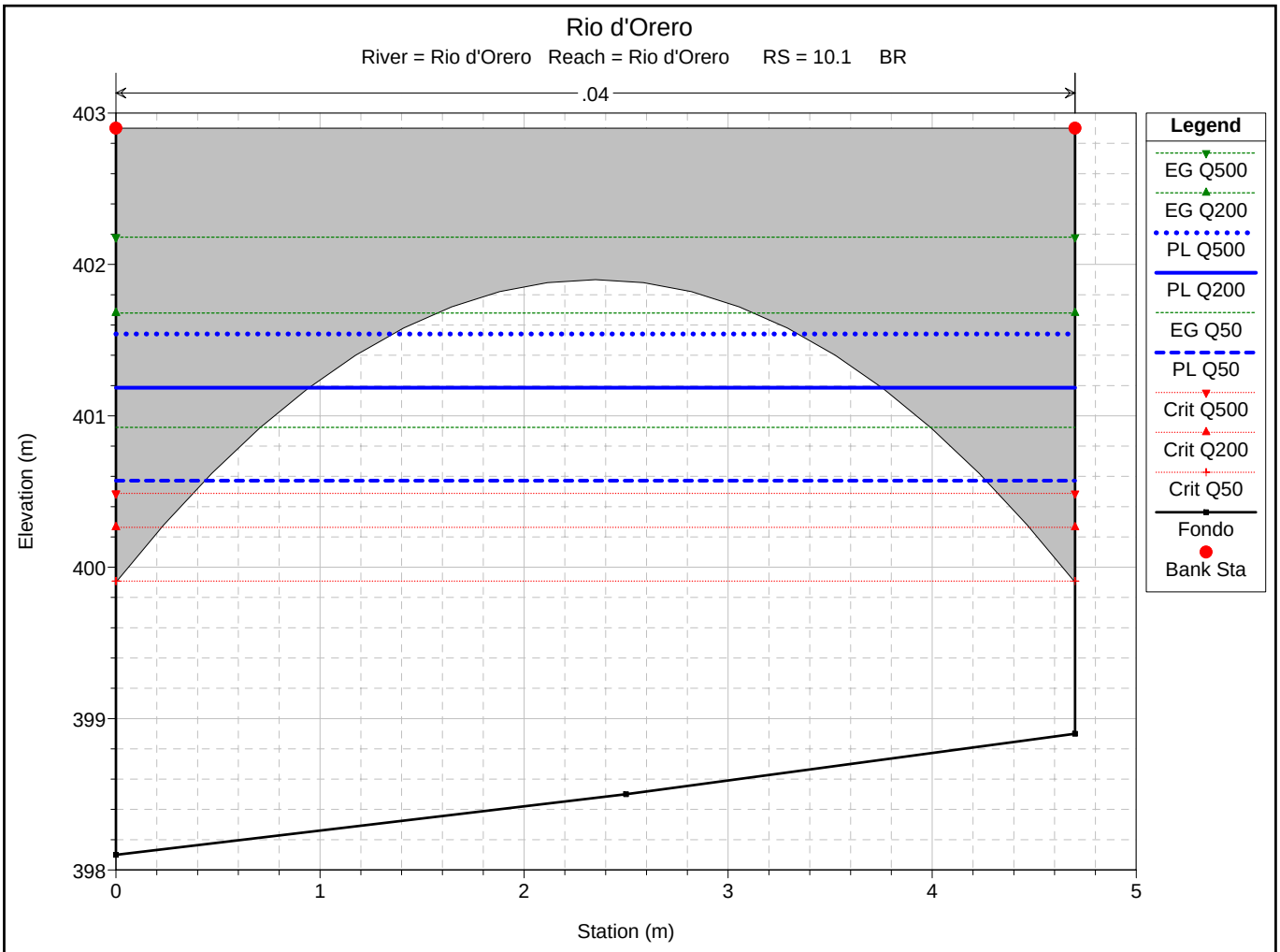
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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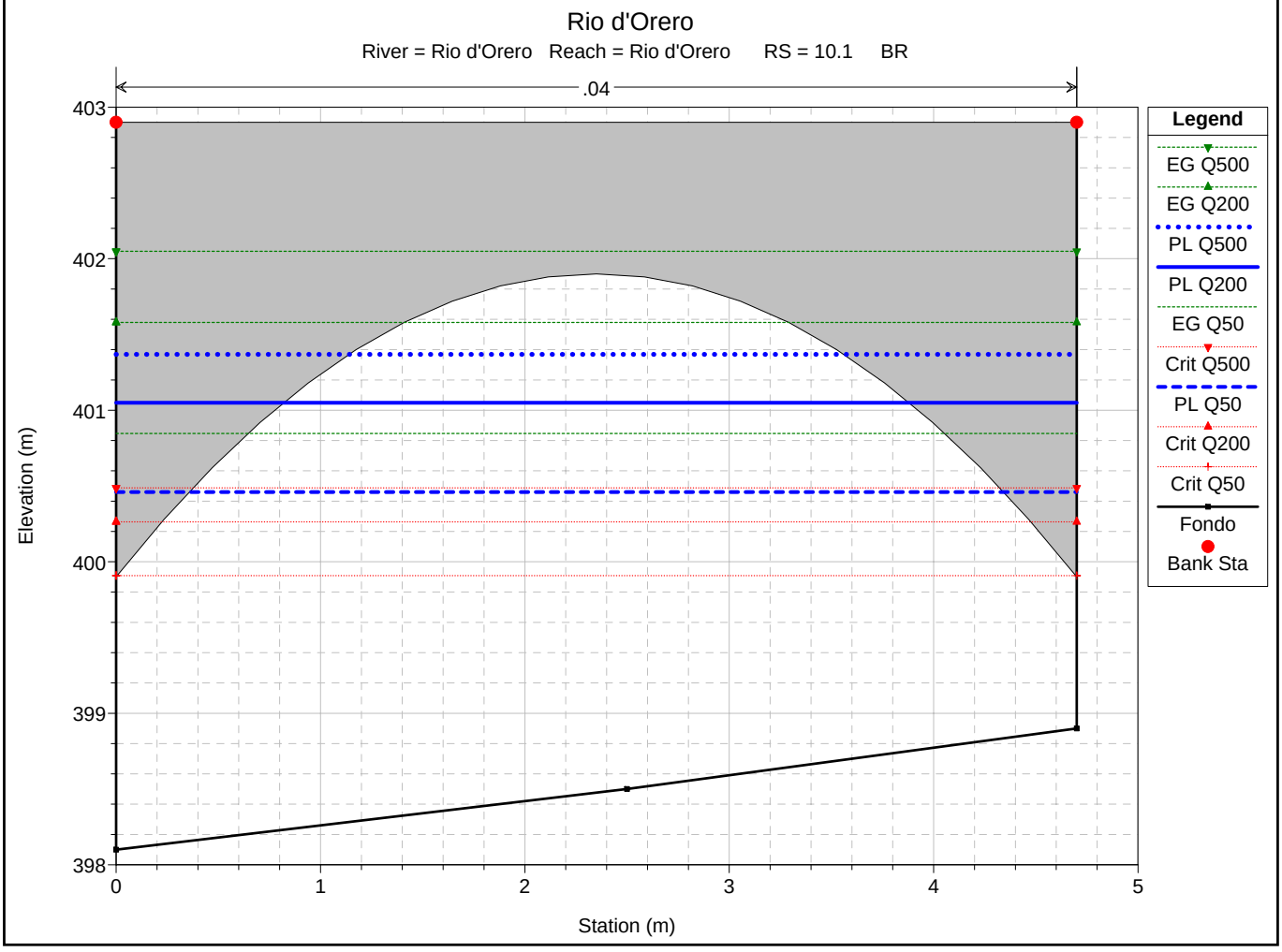
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
403
402
401
400
399
398
0
1
2
3
4
5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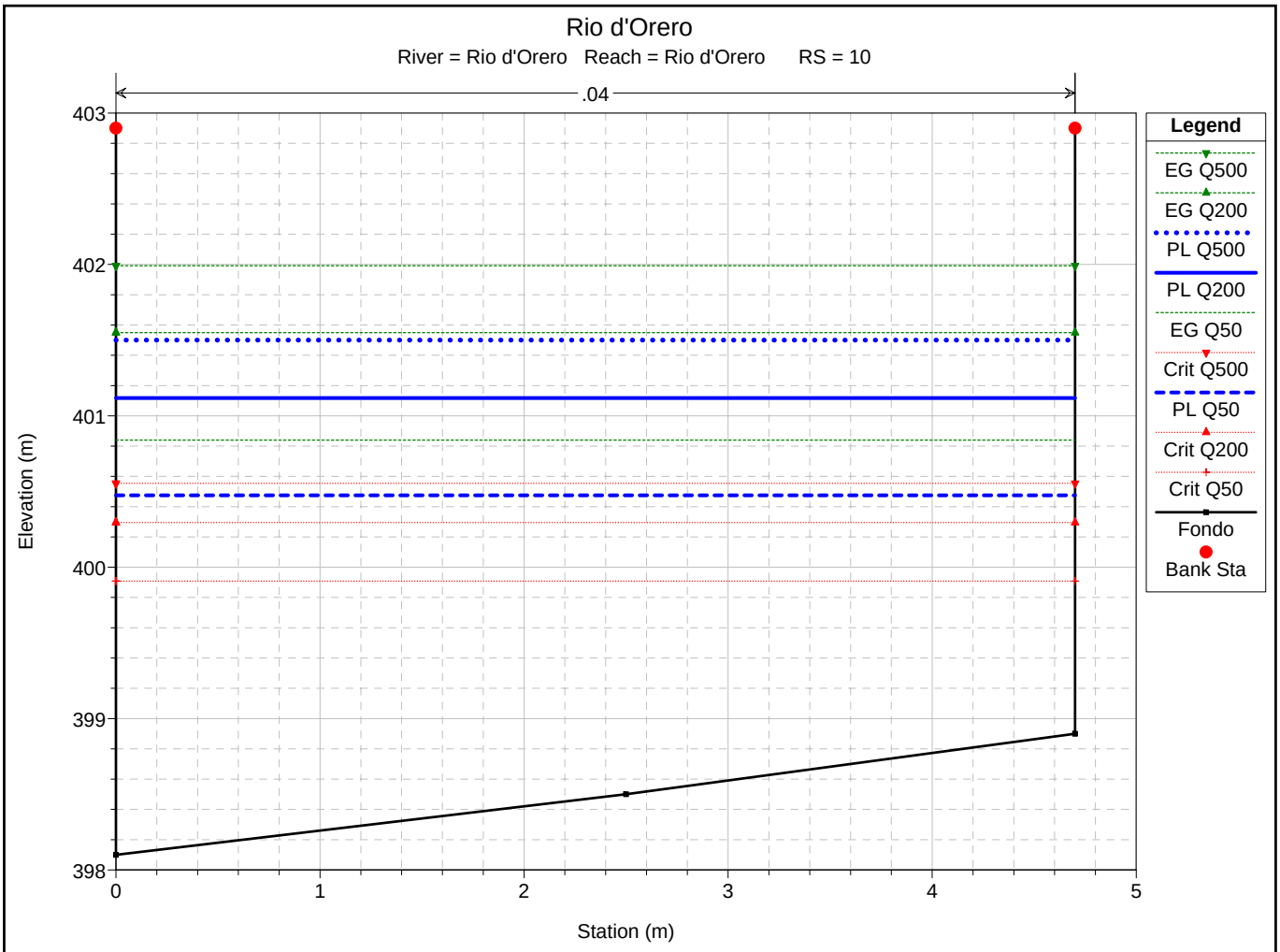
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
403
402
401
400
399
398
0
1
2
3
4
5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Elevation (m)
Station (m)
Legend
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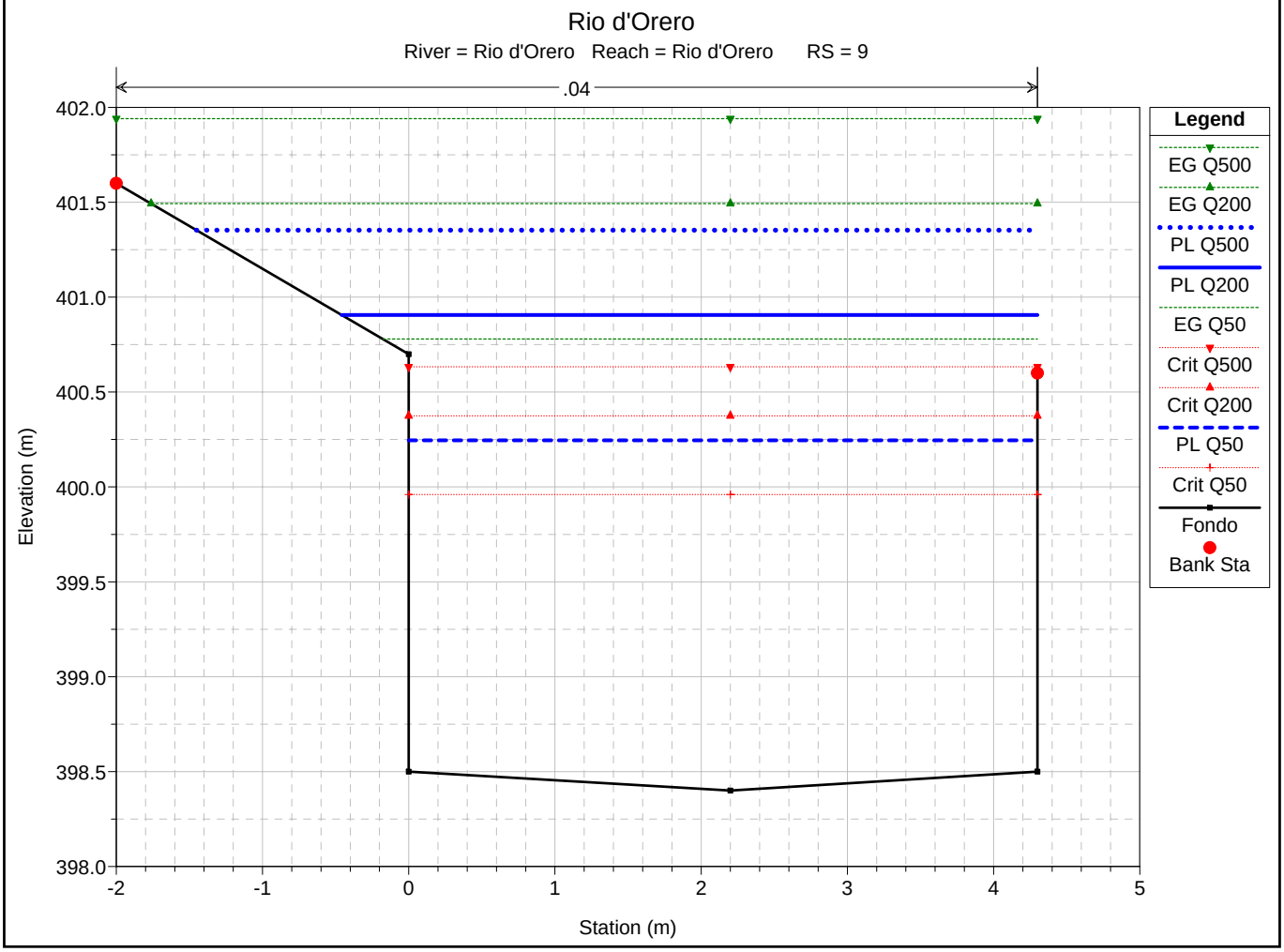
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta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Station (m)
Legend
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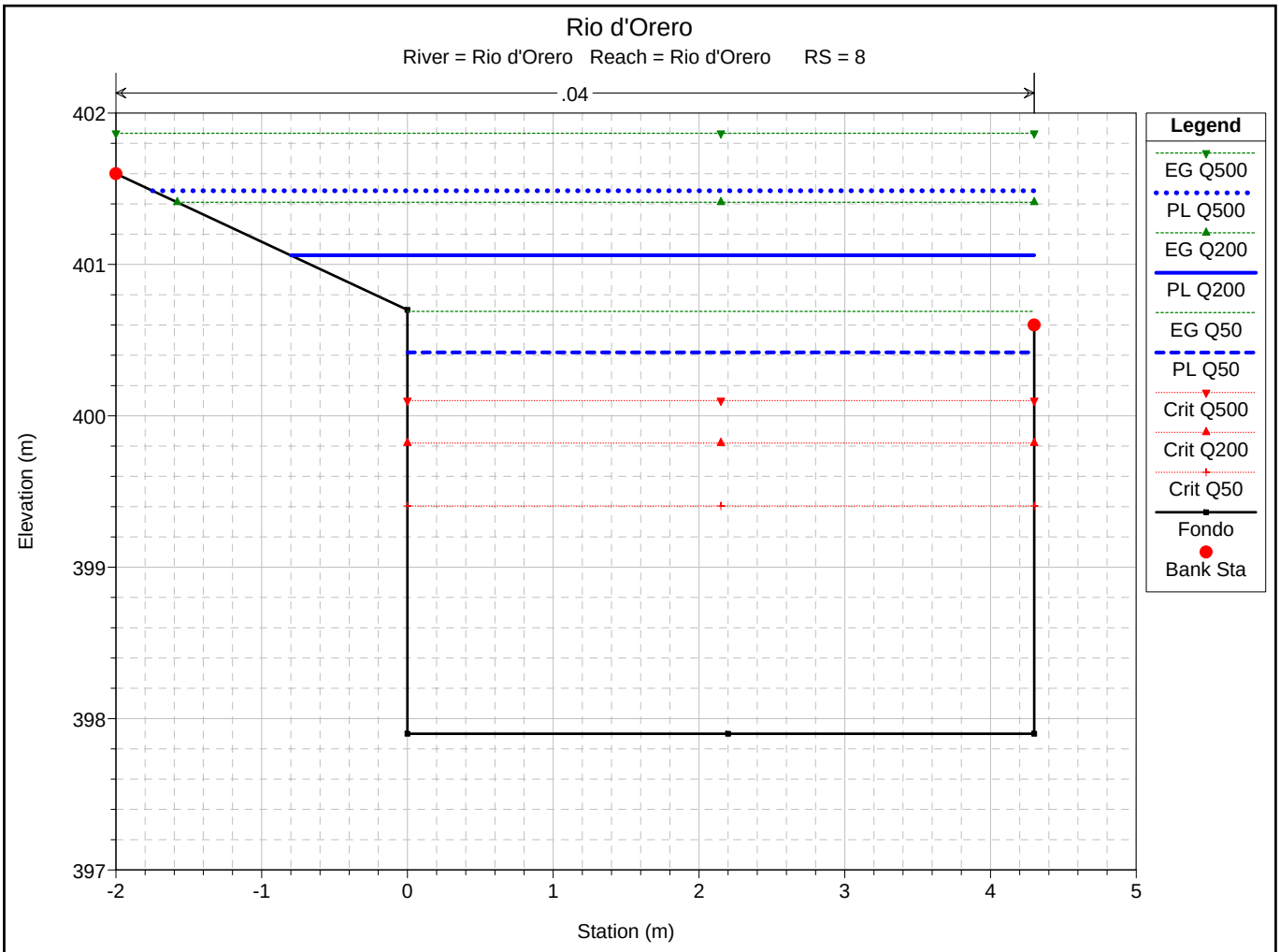
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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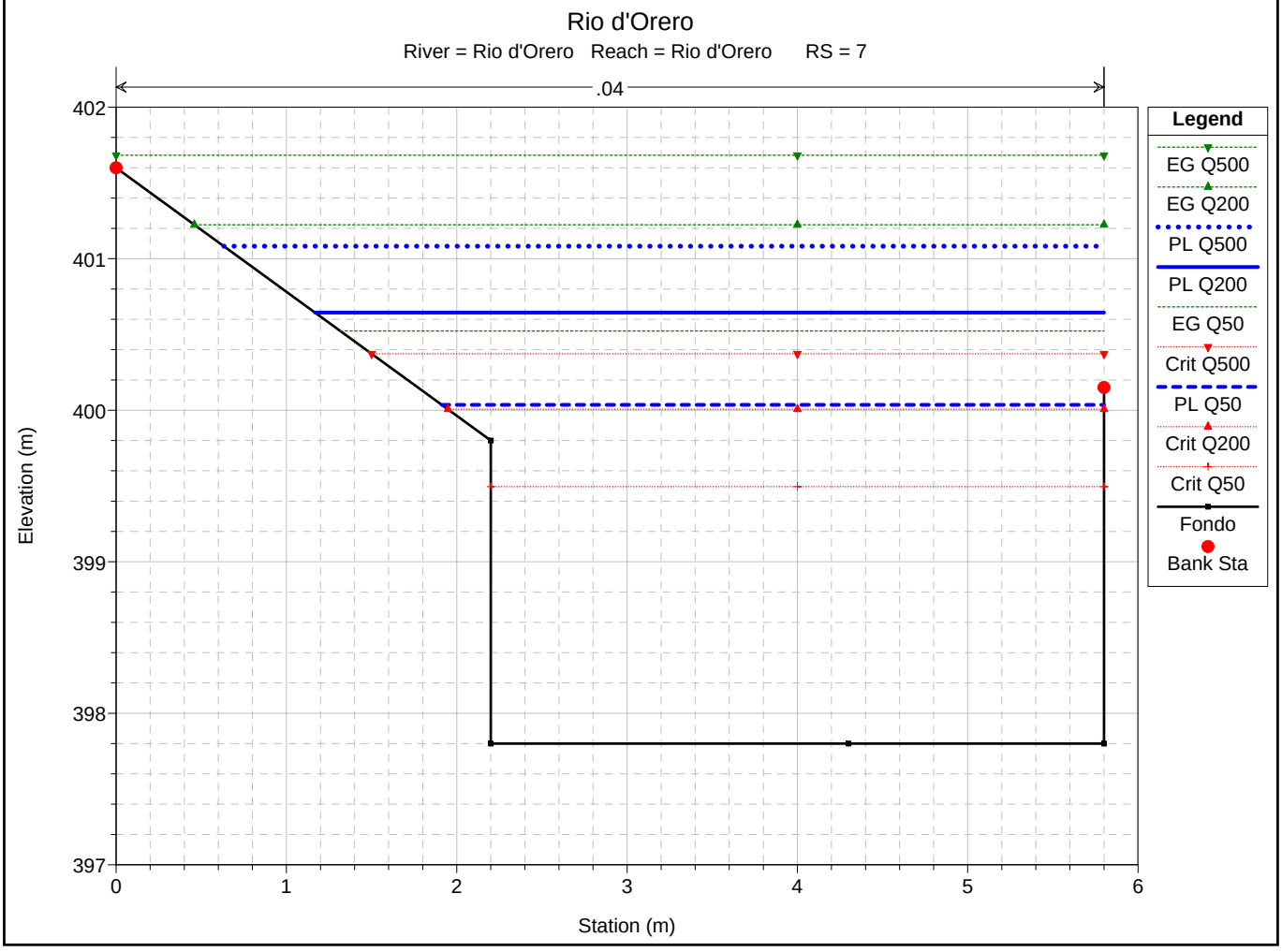
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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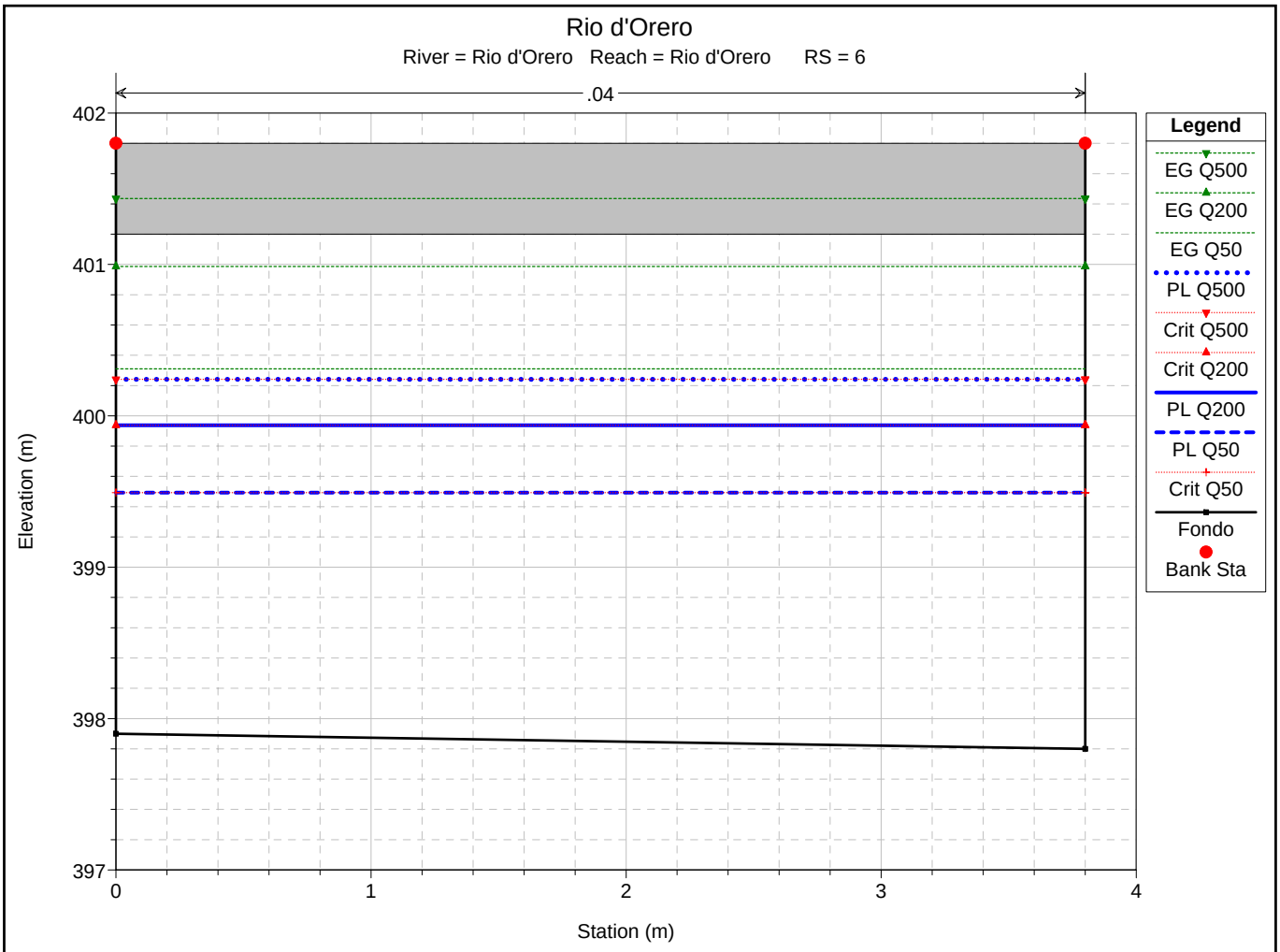
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta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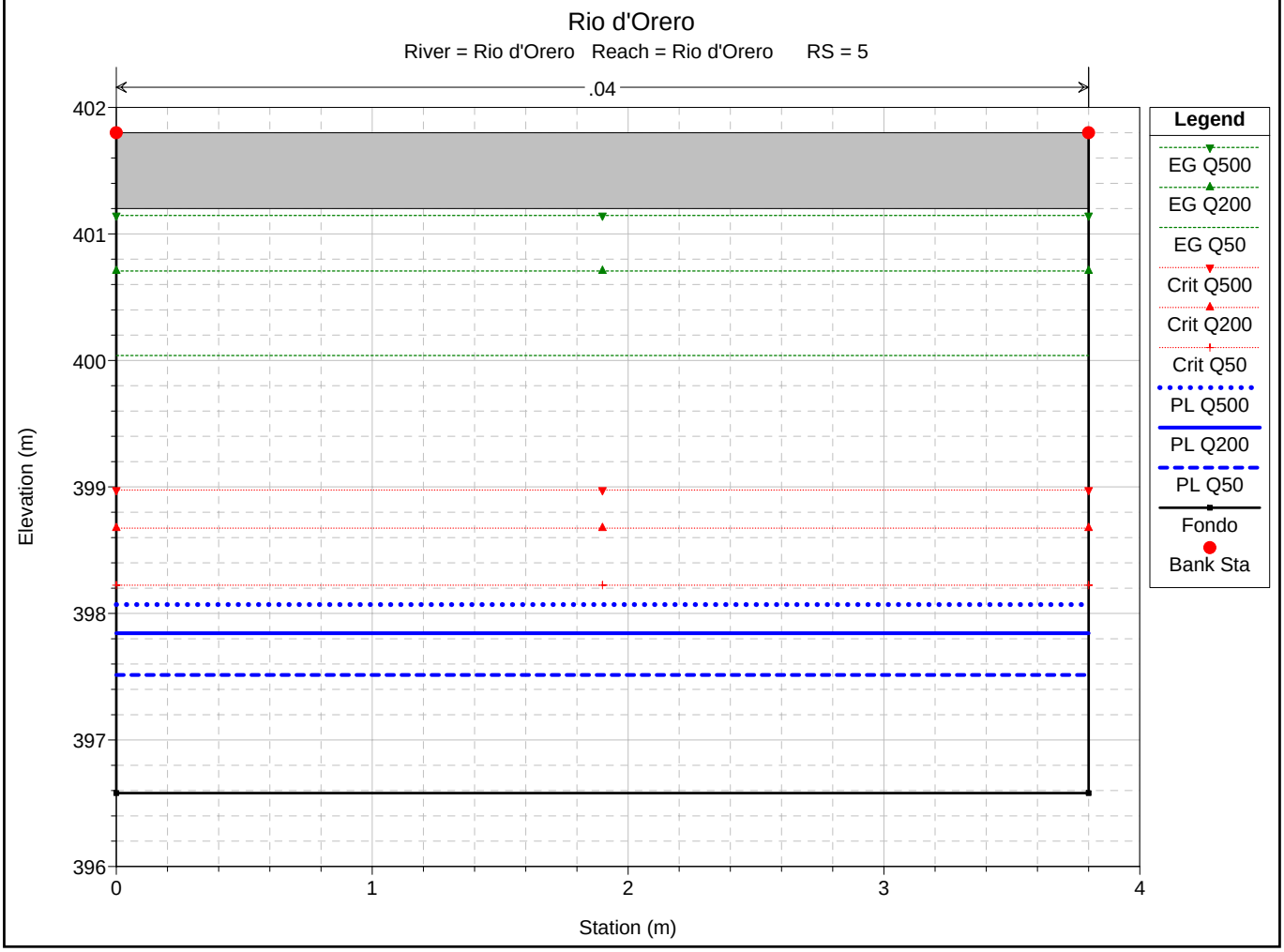
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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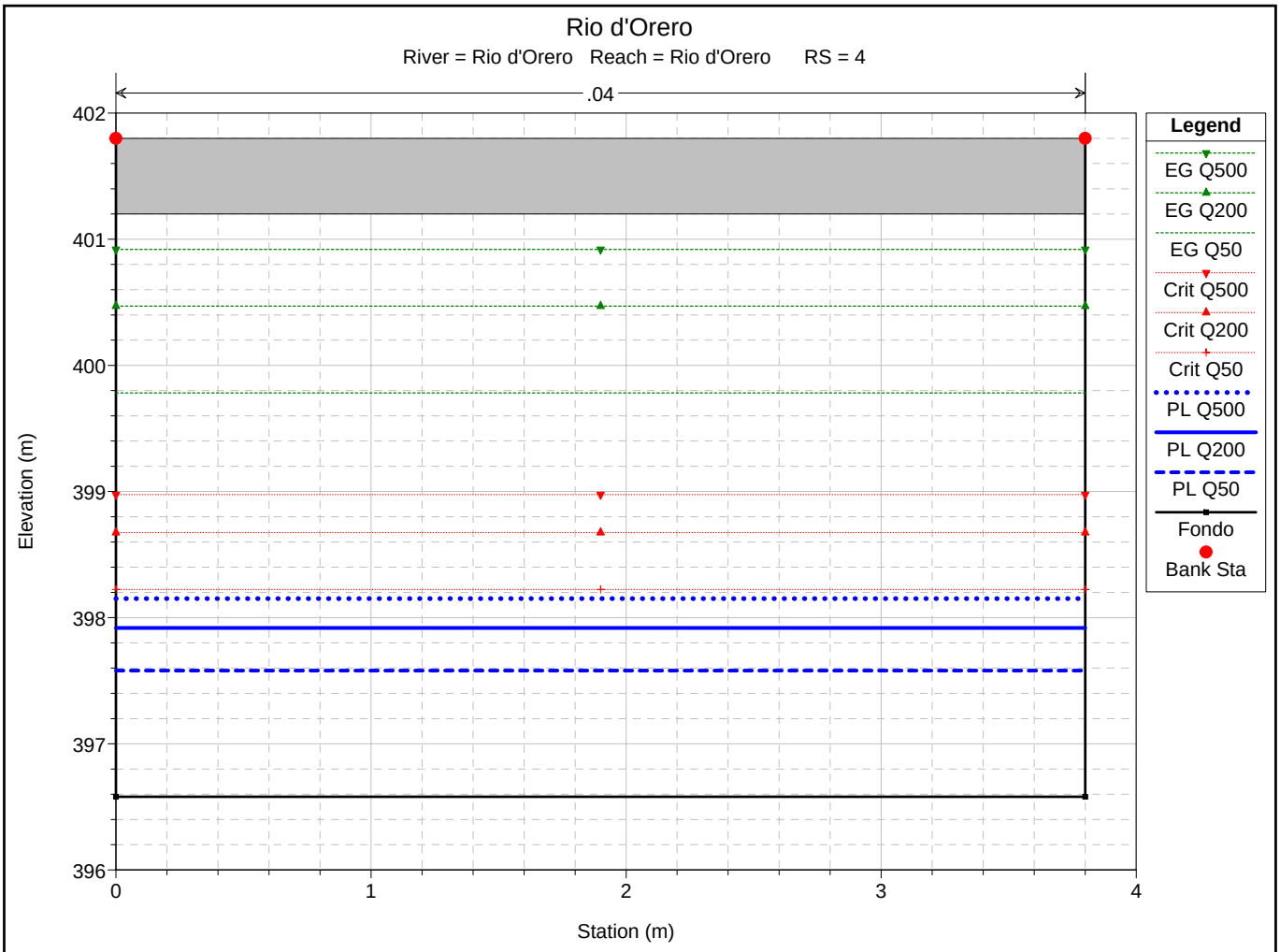
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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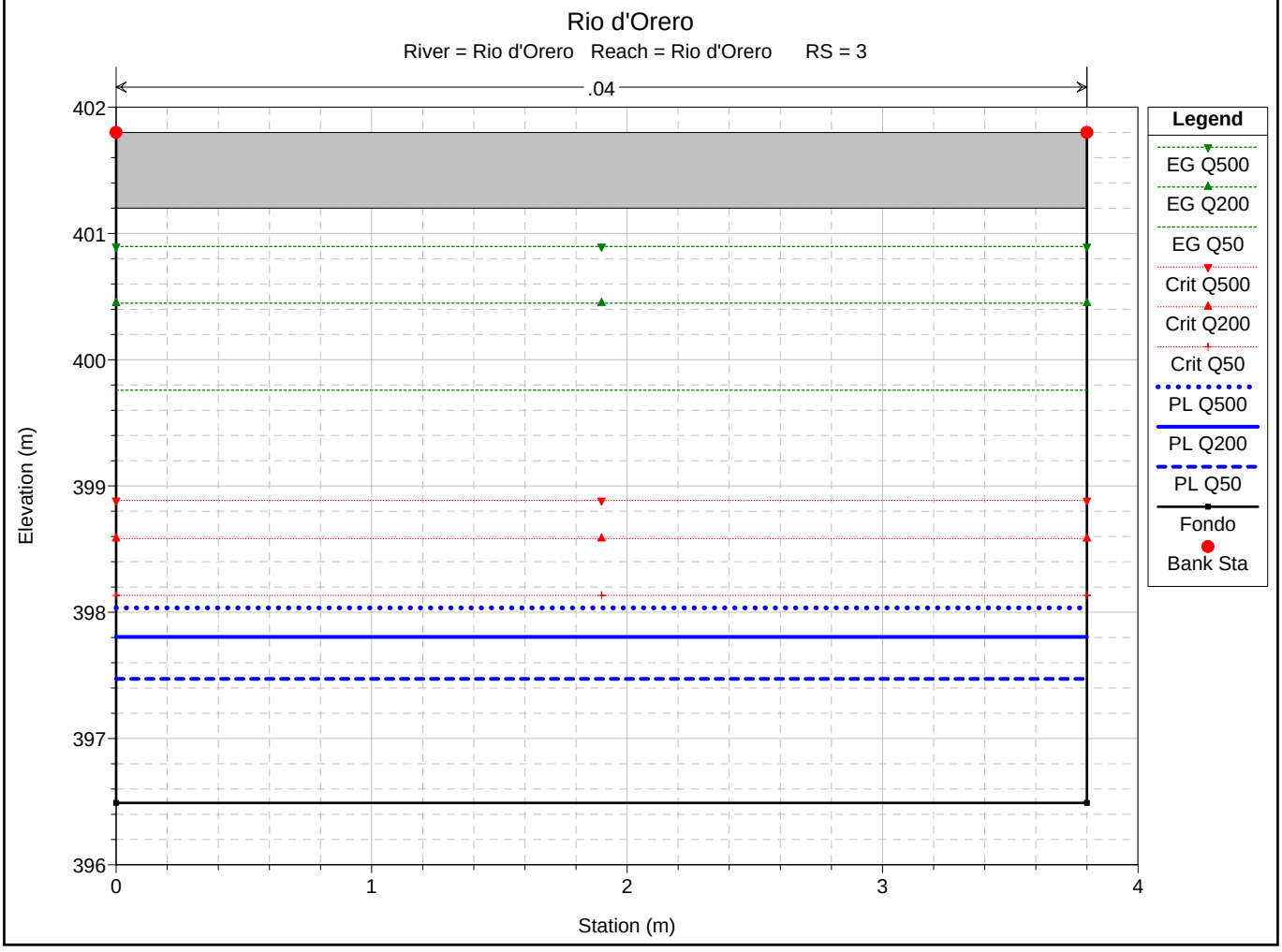
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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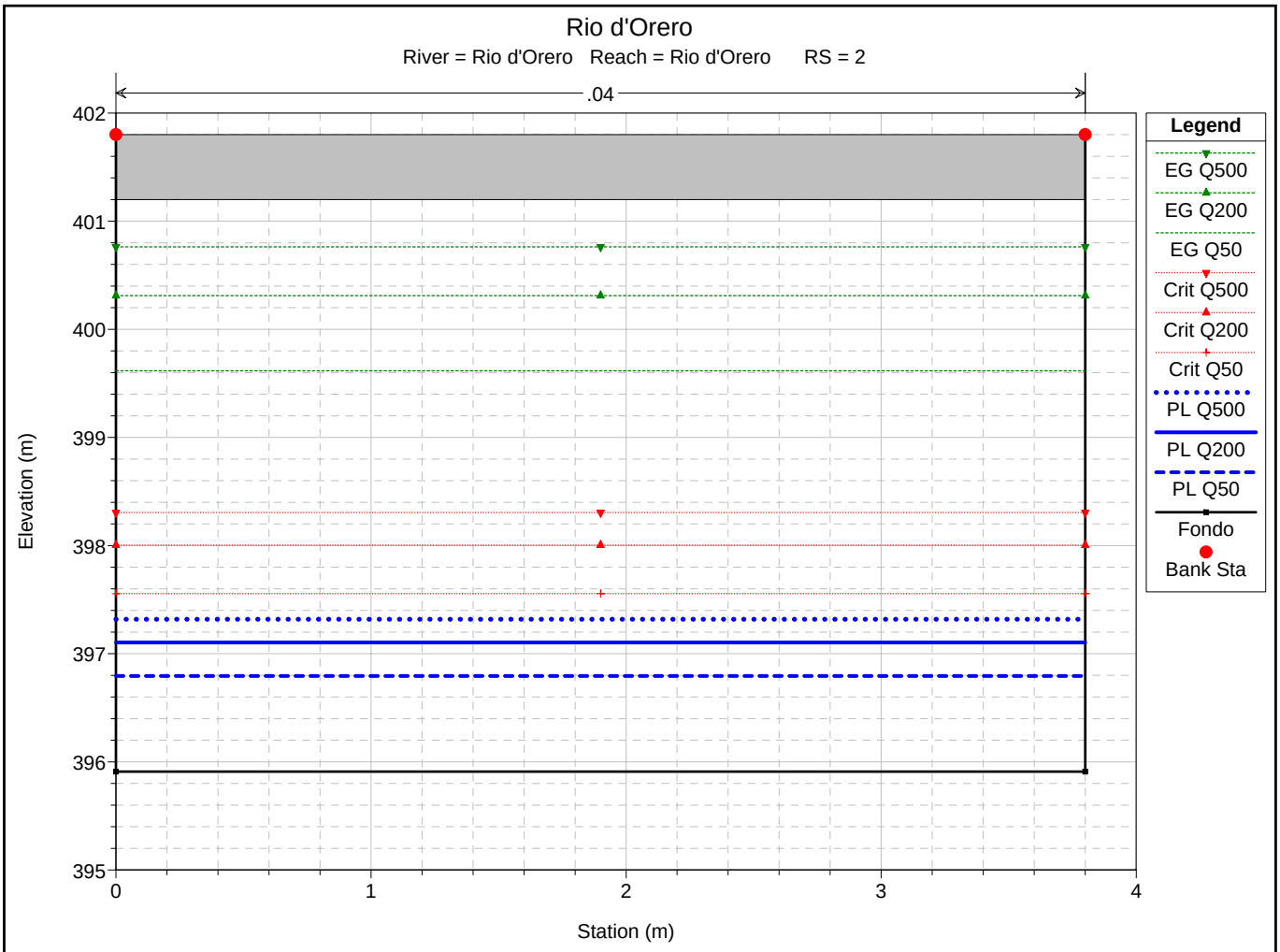
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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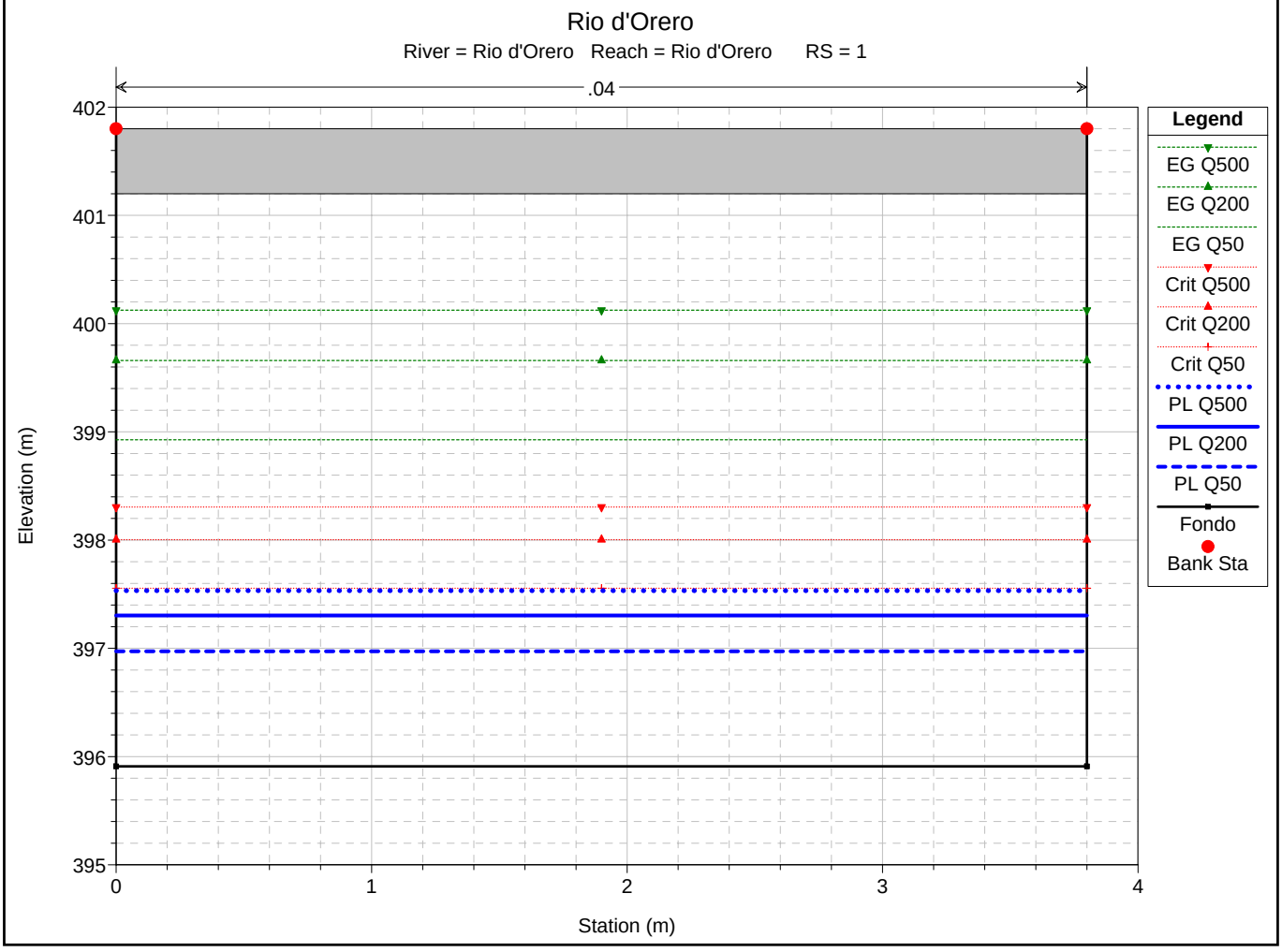
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

HEC-RAS Plan: Rio d'Orero River: Rio d'Orero Reach: Rio d'Orero

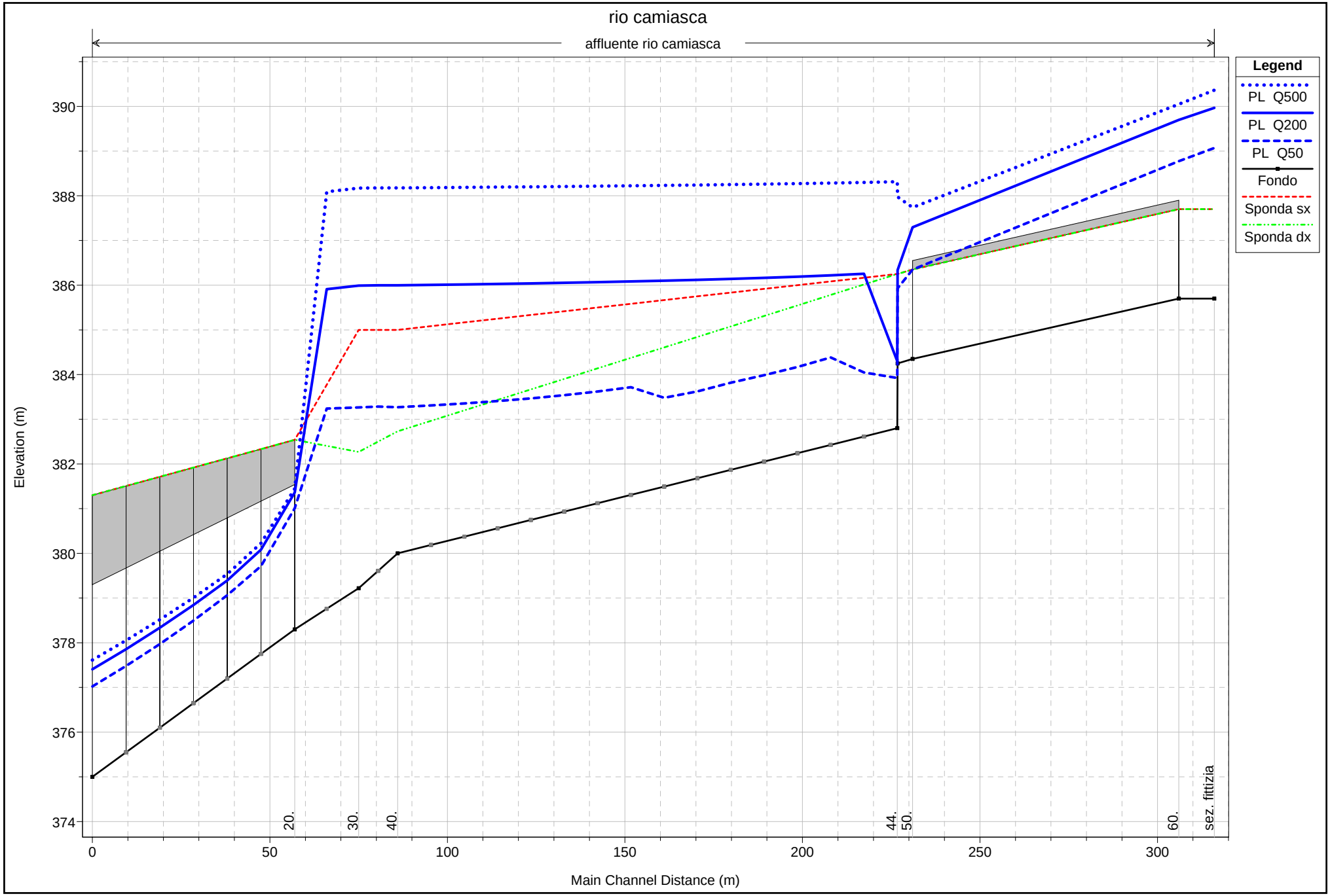
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio d'Orero	100	Q50	25.00	402.30	403.64	410.70	7.06	406.30	2.66	403.83	404.30	0.032051	3.62	6.91	8.96	1.31
Rio d'Orero	100	Q200	36.00	402.30	403.89	410.70	6.81	406.30	2.41	404.10	404.62	0.032056	3.78	9.52	11.62	1.33
Rio d'Orero	100	Q500	44.00	402.30	404.03	410.70	6.67	406.30	2.27	404.26	404.81	0.032051	3.91	11.24	13.09	1.35
Rio d'Orero	11	Q50	25.00	399.10	401.02	407.50	6.48	403.10	2.08	400.63	401.18	0.006110	1.80	13.92	15.09	0.60
Rio d'Orero	11	Q200	36.00	399.10	401.76	407.50	5.74	403.10	1.34	400.90	401.84	0.001959	1.32	27.18	19.72	0.36
Rio d'Orero	11	Q500	44.00	399.10	402.26	407.50	5.24	403.10	0.84	401.06	402.33	0.001138	1.17	37.53	21.56	0.28
Rio d'Orero	10.2	Q50	25.00	398.10	400.62	402.90	2.28	402.90	2.28	399.91	400.94	0.008638	2.49	10.02	4.70	0.55
Rio d'Orero	10.2	Q200	36.00	398.10	401.33	402.90	1.57	402.90	1.57	400.29	401.70	0.008317	2.69	13.38	4.70	0.51
Rio d'Orero	10.2	Q500	44.00	398.10	401.81	402.90	1.09	402.90	1.09	400.55	402.22	0.008327	2.82	15.62	4.70	0.49
Rio d'Orero	10.1		Bridge													
Rio d'Orero	10	Q50	25.00	398.10	400.47	402.90	2.43	402.90	2.43	399.91	400.84	0.010450	2.68	9.34	4.70	0.61
Rio d'Orero	10	Q200	36.00	398.10	401.12	402.90	1.78	402.90	1.78	400.29	401.55	0.010228	2.91	12.36	4.70	0.57
Rio d'Orero	10	Q500	44.00	398.10	401.50	402.90	1.40	402.90	1.40	400.55	401.99	0.010724	3.11	14.16	4.70	0.57
Rio d'Orero	9	Q50	25.00	398.40	400.25	401.60	1.35	400.60	0.35	399.96	400.78	0.016999	3.24	7.72	4.30	0.77
Rio d'Orero	9	Q200	36.00	398.40	400.91	401.60	0.69	400.60	-0.31	400.37	401.49	0.015706	3.39	10.61	4.76	0.73
Rio d'Orero	9	Q500	44.00	398.40	401.35	401.60	0.25	400.60	-0.75	400.63	401.94	0.014739	3.40	12.96	5.75	0.72
Rio d'Orero	8	Q50	25.00	397.90	400.42	401.60	1.18	400.60	0.18	399.40	400.69	0.006993	2.31	10.83	4.30	0.46
Rio d'Orero	8	Q200	36.00	397.90	401.06	401.60	0.54	400.60	-0.46	399.82	401.41	0.008313	2.62	13.73	5.10	0.51
Rio d'Orero	8	Q500	44.00	397.90	401.49	401.60	0.11	400.60	-0.89	400.10	401.87	0.008600	2.73	16.11	6.05	0.53
Rio d'Orero	7	Q50	25.00	397.80	400.04	401.60	1.56	400.15	0.11	399.50	400.52	0.015626	3.09	8.08	3.89	0.68
Rio d'Orero	7	Q200	36.00	397.80	400.64	401.60	0.96	400.15	-0.49	400.01	401.22	0.016178	3.37	10.68	4.63	0.71
Rio d'Orero	7	Q500	44.00	397.80	401.08	401.60	0.52	400.15	-0.93	400.37	401.68	0.015185	3.43	12.82	5.17	0.70
Rio d'Orero	6	Q50	25.00	397.80	399.49	401.20	1.71	401.20	1.71	399.49	400.31	0.030423	4.01	6.24	3.80	1.00
Rio d'Orero	6	Q200	36.00	397.80	399.94	401.20	1.26	401.20	1.26	399.94	400.99	0.033185	4.54	7.93	3.80	1.00
Rio d'Orero	6	Q500	44.00	397.80	400.24	401.20	0.96	401.20	0.96	400.24	401.44	0.034779	4.84	9.09	3.80	1.00
Rio d'Orero	5	Q50	25.00	396.58	397.51	401.20	3.69	401.20	3.69	398.22	400.04	0.147914	7.04	3.55	3.80	2.32
Rio d'Orero	5	Q200	36.00	396.58	397.84	401.20	3.36	401.20	3.36	398.67	400.71	0.129902	7.50	4.80	3.80	2.13
Rio d'Orero	5	Q500	44.00	396.58	398.07	401.20	3.13	401.20	3.13	398.98	401.15	0.122788	7.77	5.66	3.80	2.03
Rio d'Orero	4	Q50	25.00	396.58	397.58	401.20	3.62	401.20	3.62	398.22	399.78	0.121376	6.57	3.80	3.80	2.10
Rio d'Orero	4	Q200	36.00	396.58	397.92	401.20	3.28	401.20	3.28	398.67	400.47	0.110563	7.08	5.09	3.80	1.95
Rio d'Orero	4	Q500	44.00	396.58	398.15	401.20	3.05	401.20	3.05	398.98	400.92	0.106346	7.37	5.97	3.80	1.88
Rio d'Orero	3	Q50	25.00	396.49	397.47	401.20	3.73	401.20	3.73	398.13	399.76	0.128245	6.70	3.73	3.80	2.16
Rio d'Orero	3	Q200	36.00	396.49	397.81	401.20	3.39	401.20	3.39	398.58	400.45	0.116193	7.20	5.00	3.80	2.01
Rio d'Orero	3	Q500	44.00	396.49	398.03	401.20	3.17	401.20	3.17	398.89	400.90	0.111266	7.50	5.87	3.80	1.92
Rio d'Orero	2	Q50	25.00	395.91	396.79	401.20	4.41	401.20	4.41	397.56	399.62	0.173865	7.44	3.36	3.80	2.53
Rio d'Orero	2	Q200	36.00	395.91	397.10	401.20	4.10	401.20	4.10	398.00	400.31	0.152322	7.93	4.54	3.80	2.32
Rio d'Orero	2	Q500	44.00	395.91	397.32	401.20	3.88	401.20	3.88	398.31	400.76	0.143581	8.22	5.35	3.80	2.21
Rio d'Orero	1	Q50	25.00	395.91	396.97	401.20	4.23	401.20	4.23	397.56	398.93	0.102452	6.20	4.04	3.80	1.92

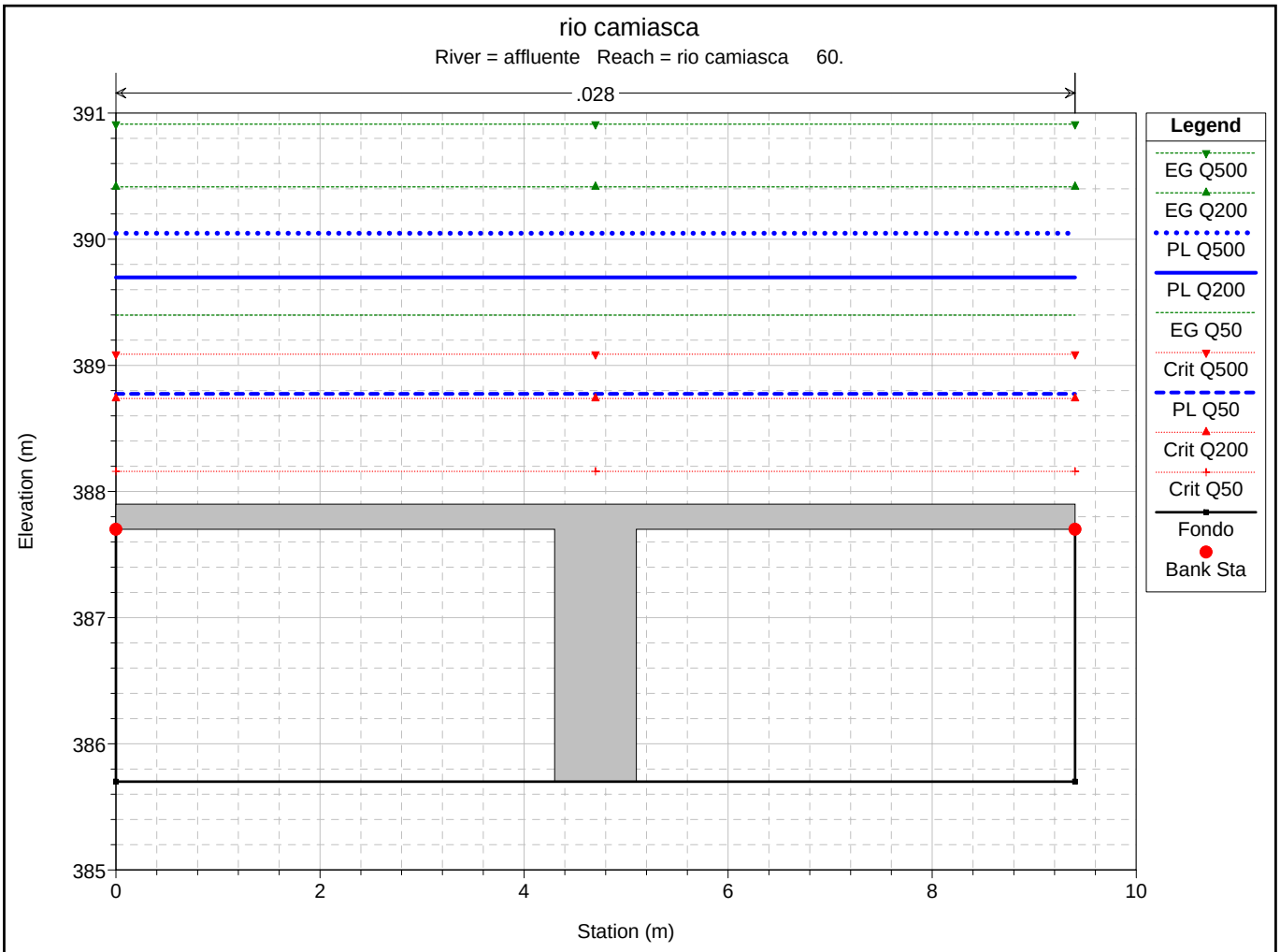
HEC-RAS Plan: Rio d'Orero River: Rio d'Orero Reach: Rio d'Orero (Continued)

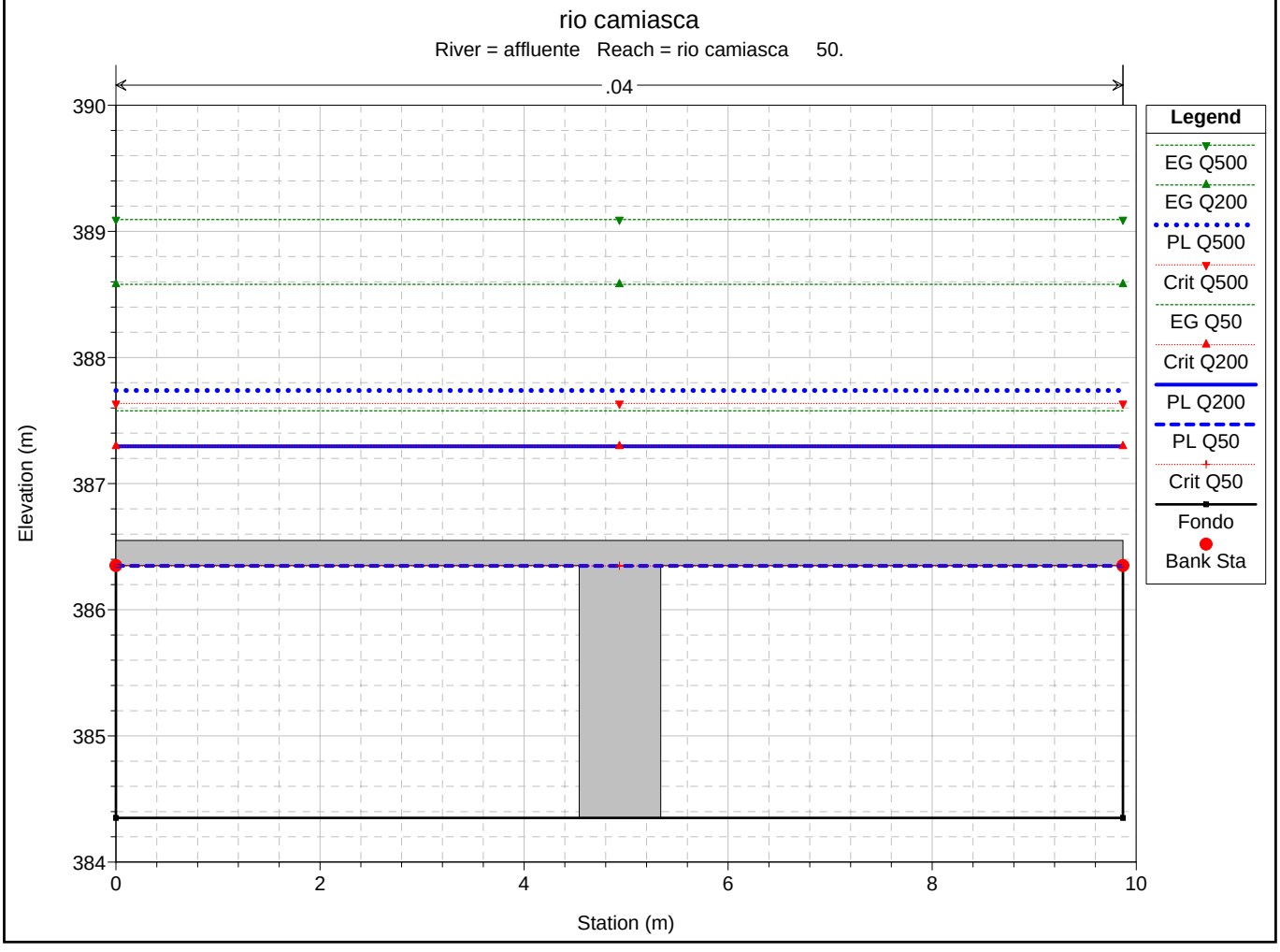
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Rio d'Orero	1	Q200	36.00	395.91	397.30	401.20	3.90	401.20	3.90	398.00	399.66	0.099065	6.80	5.29	3.80	1.84
Rio d'Orero	1	Q500	44.00	395.91	397.53	401.20	3.67	401.20	3.67	398.31	400.12	0.097143	7.13	6.17	3.80	1.79

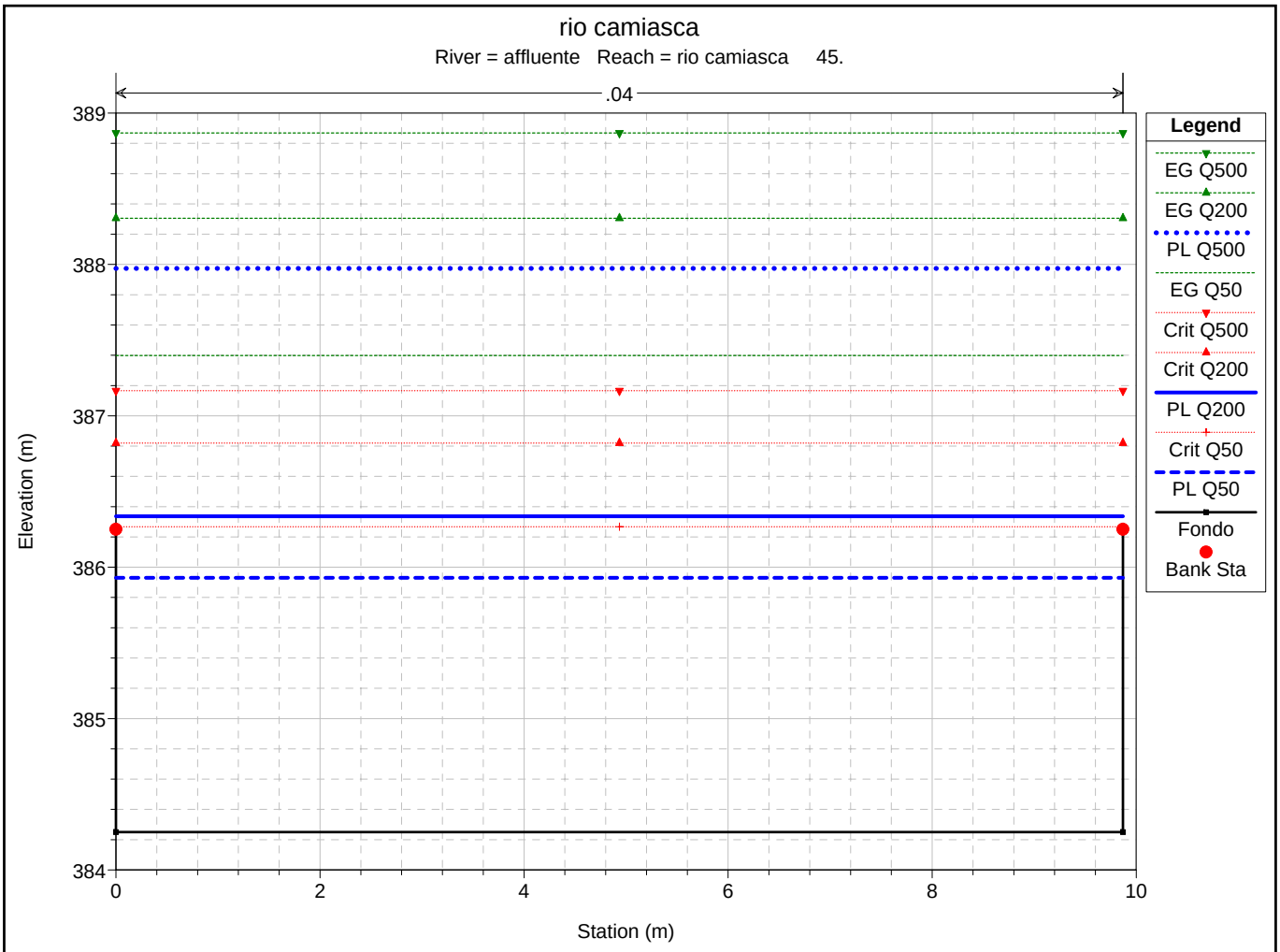
Rio Camiasca

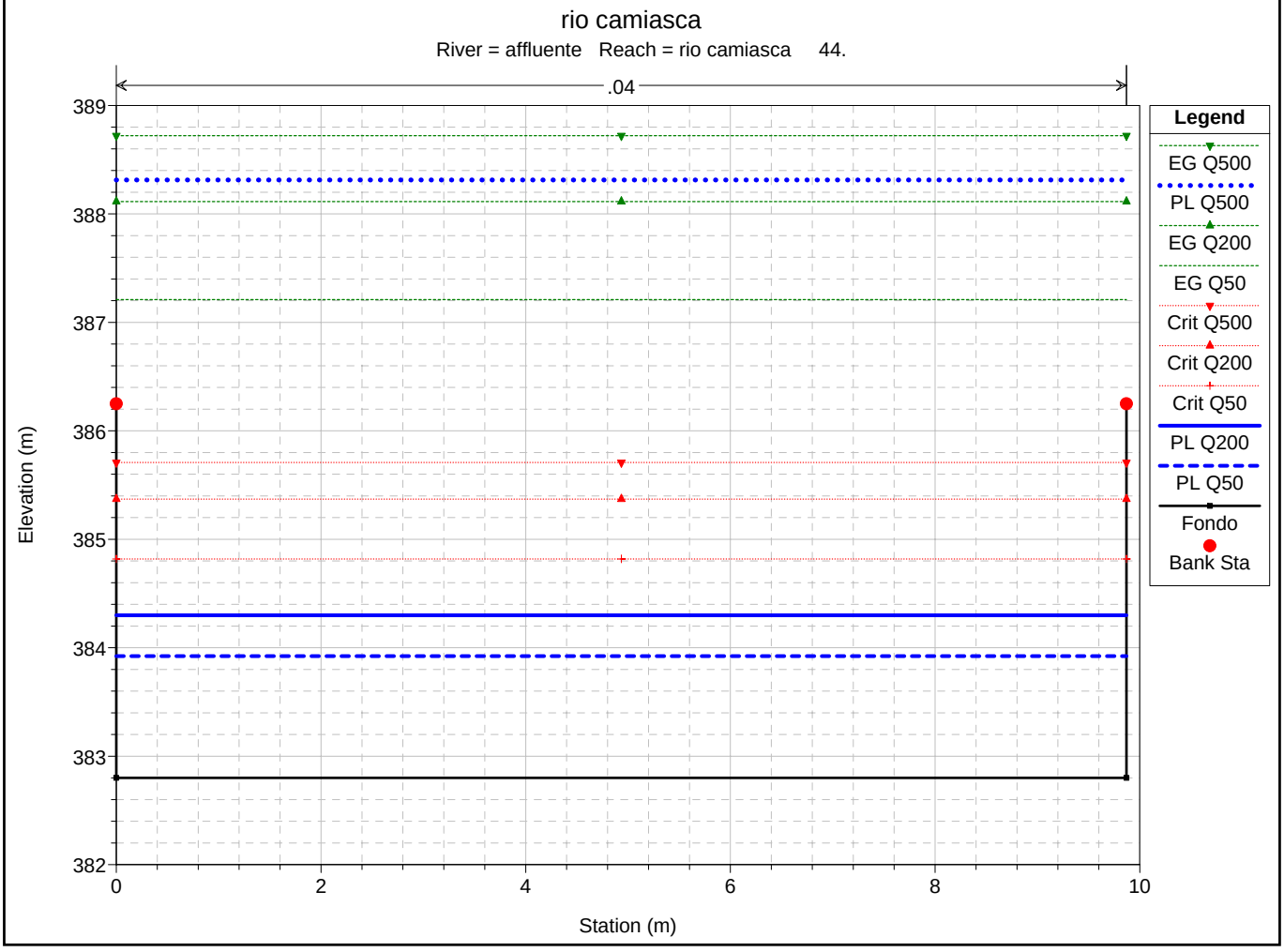
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

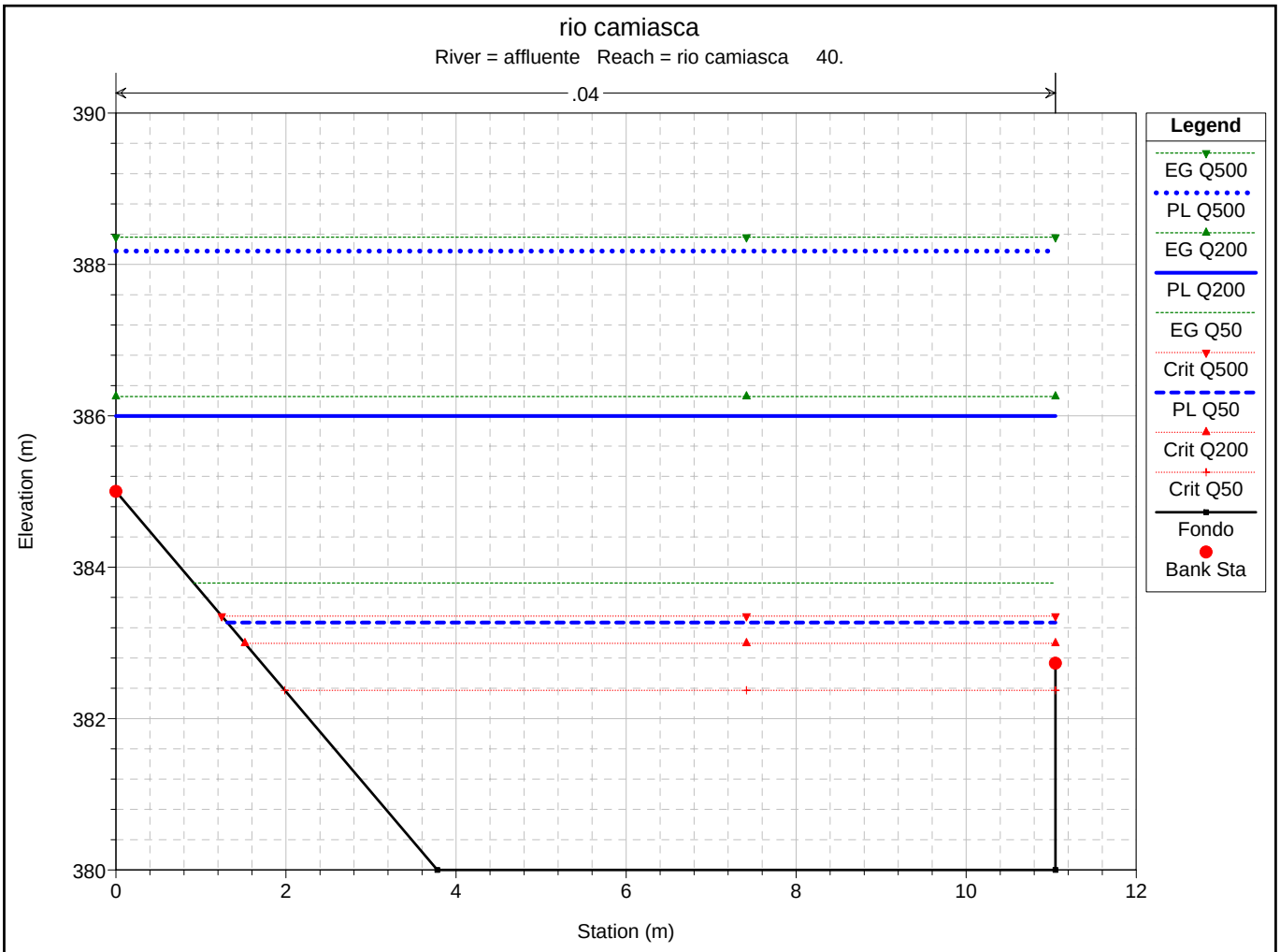

rio camiasca
affluente rio camiasca
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
390
388
386
384
382
380
378
376
374
0
50
100
150
200
250
300
Main Channel Distance (m)
20.
30.
40.
44.
50.
60.
sez. fittizia

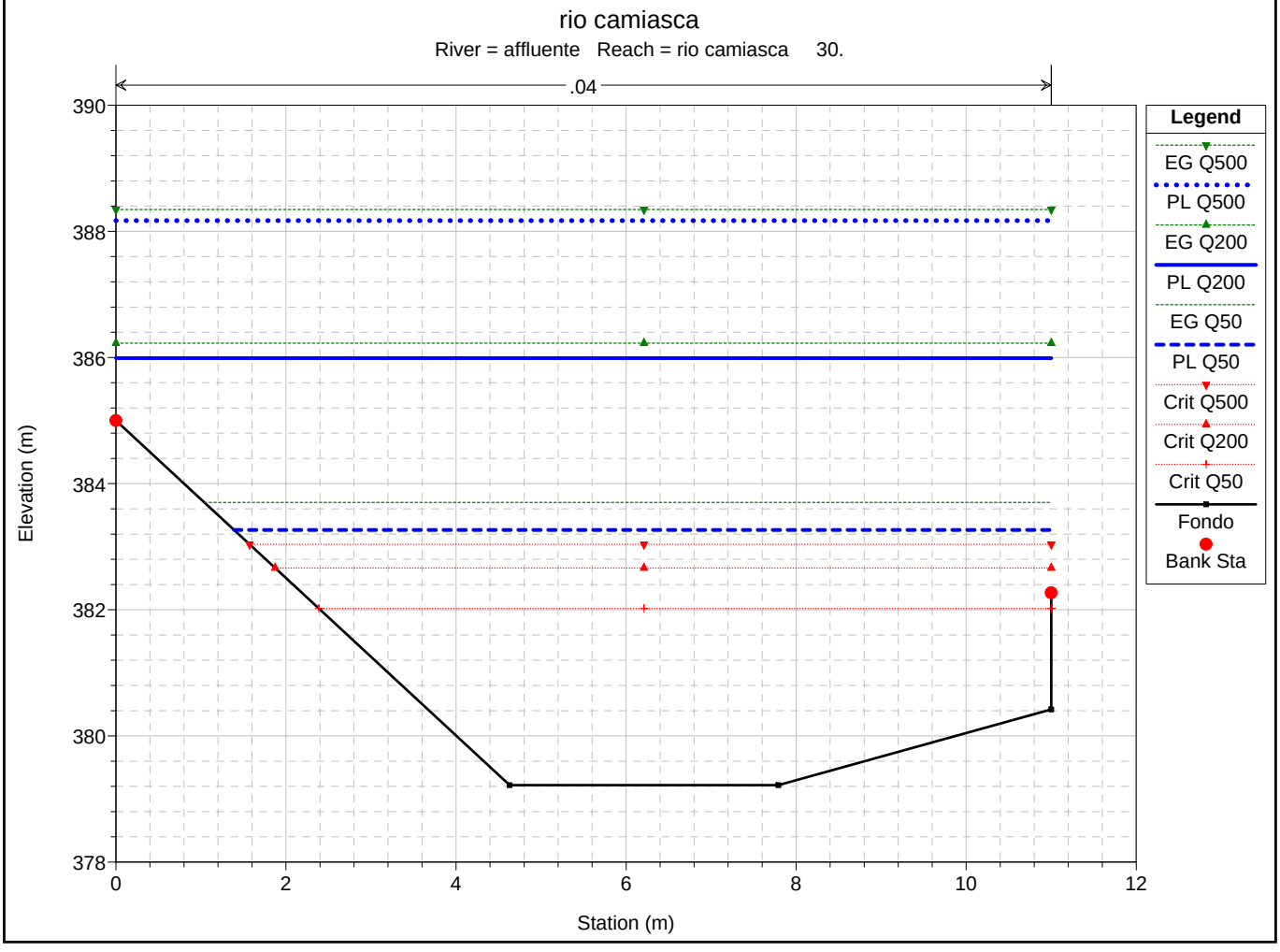

rio camiasca
River = affluente Reach = rio camiasca 60.
.028
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta

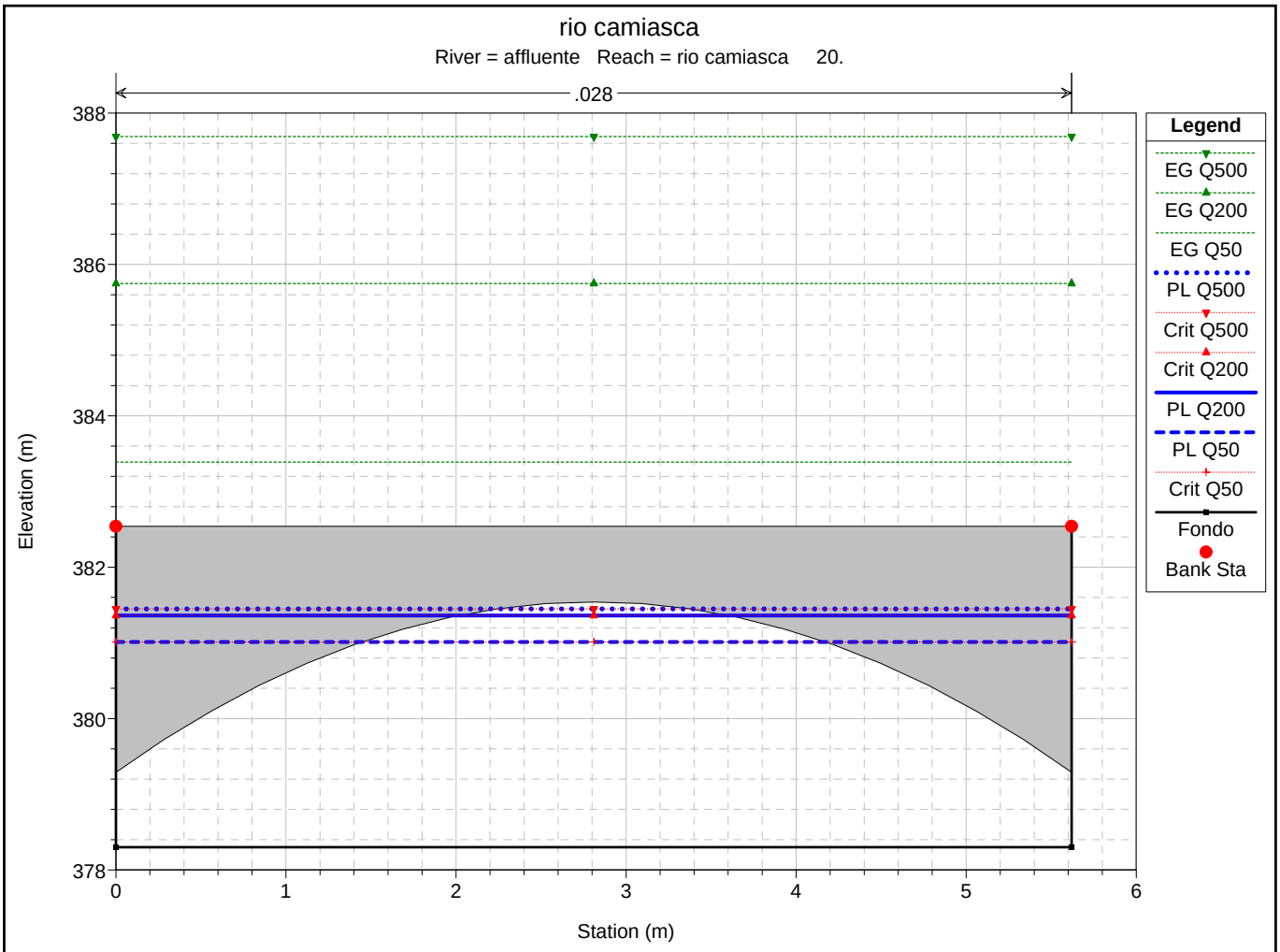

rio camiasca
River = affluente Reach = rio camiasca 50.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
Crit Q500
EG Q50
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

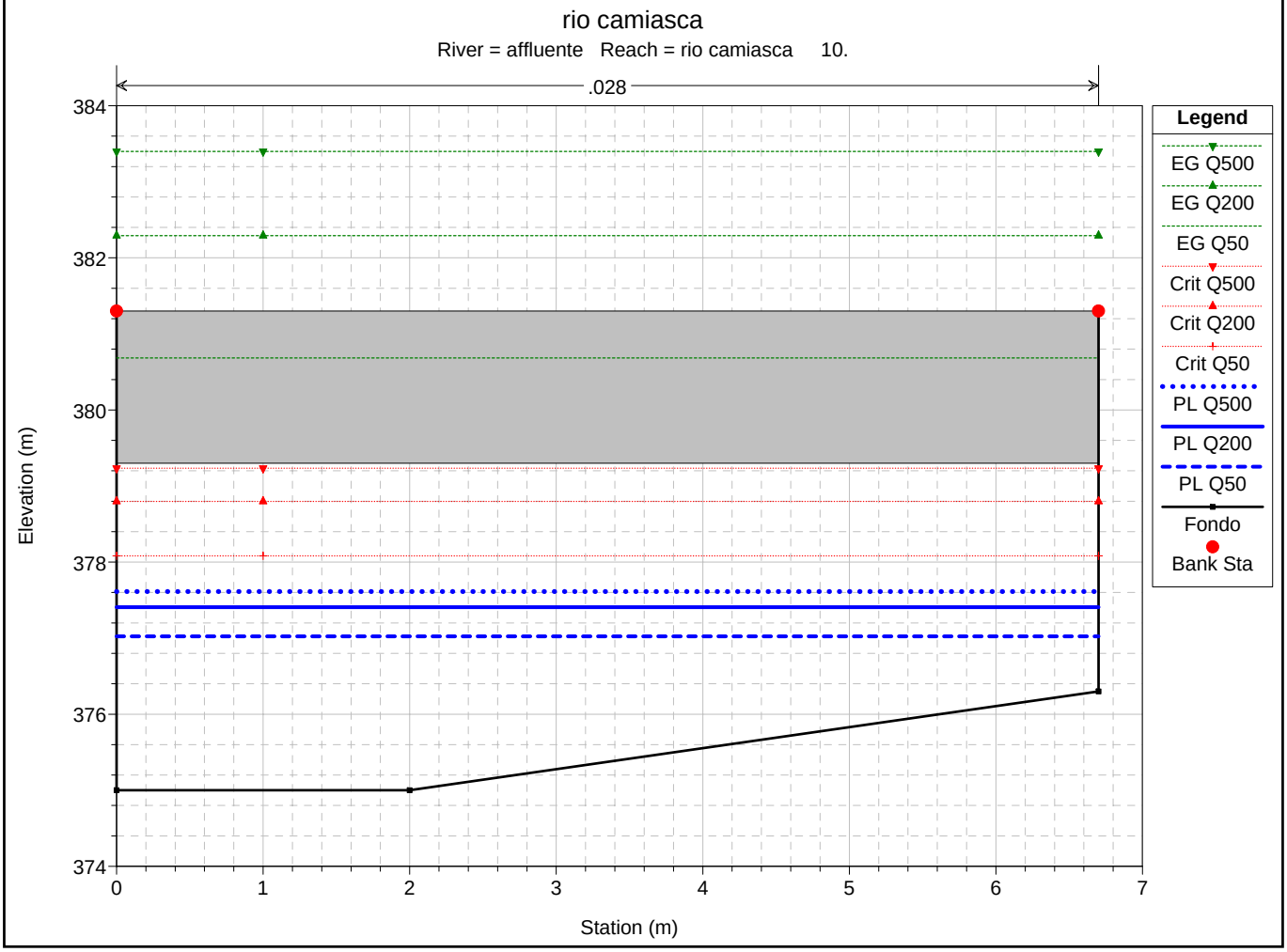

rio camiasca
River = affluente Reach = rio camiasca 45.
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
Crit Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta


rio camiasca
River = affluente Reach = rio camiasca 44.
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta


rio camiasca
River = affluente Reach = rio camiasca 40.
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


rio camiasca
River = affluente Reach = rio camiasca 30.
.04
Elevation (m)
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


rio camiasca
River = affluente Reach = rio camiasca 20.
.028
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

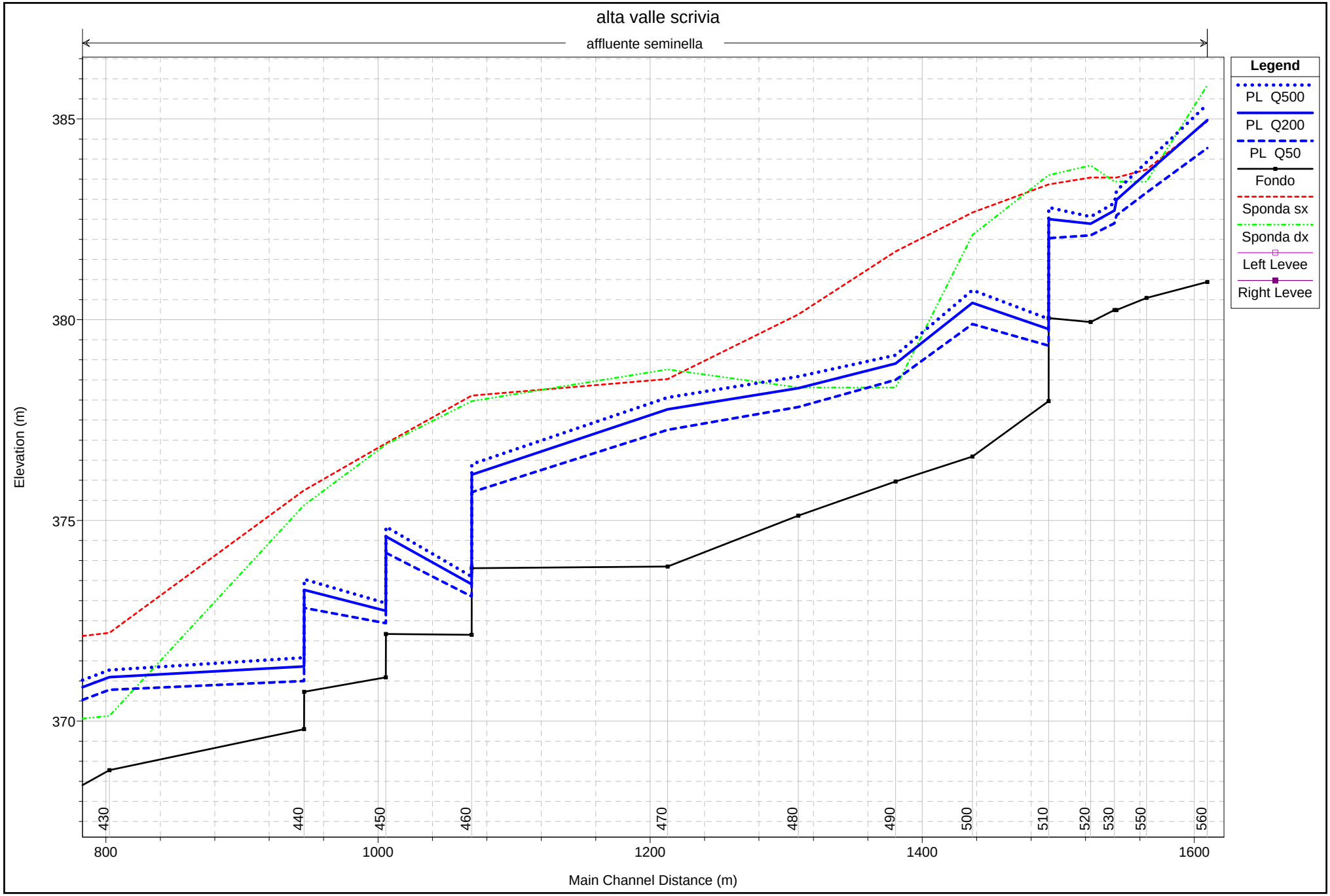

rio camiasca
River = affluente Reach = rio camiasca 10.
.028
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

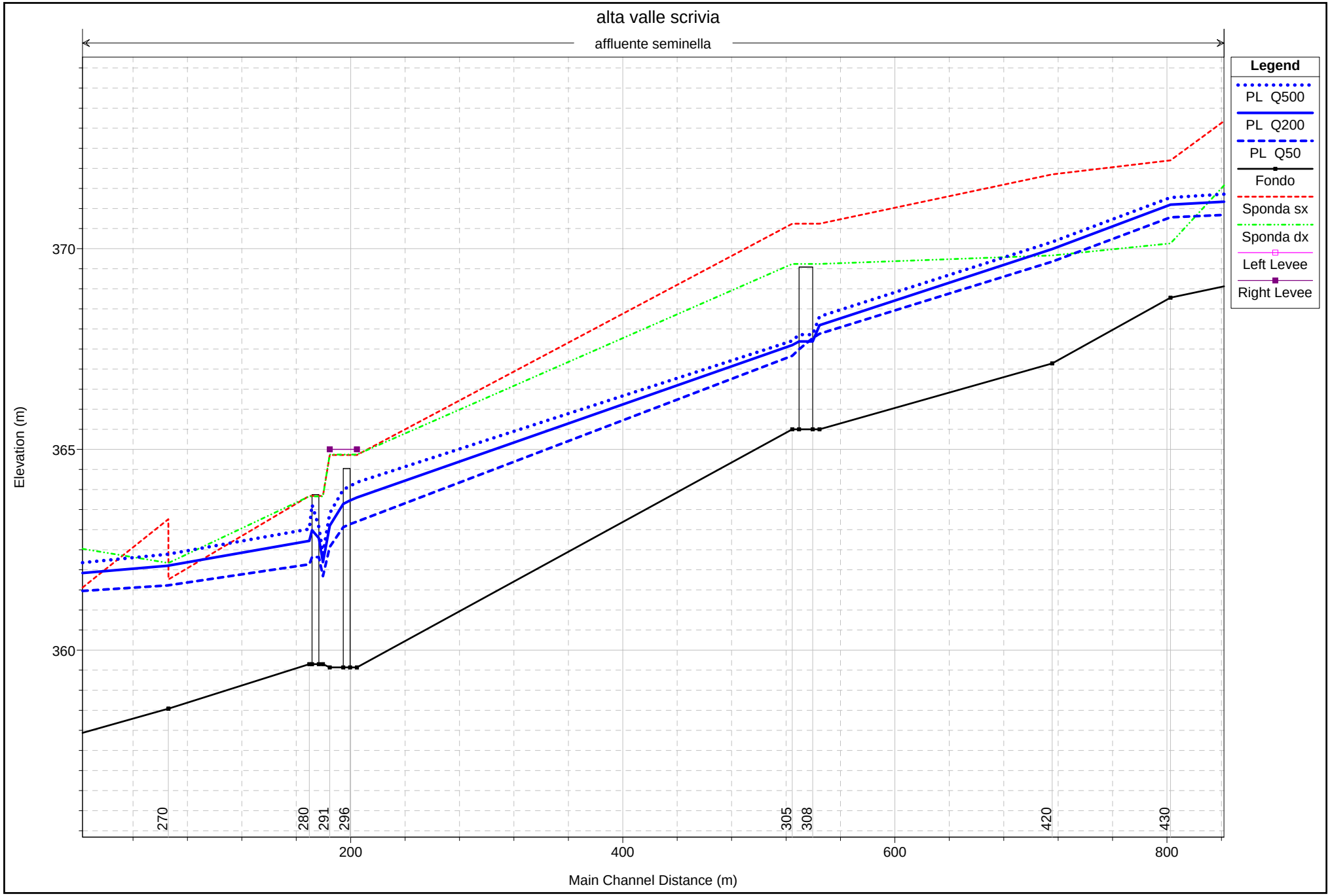
HEC-RAS Plan: Rio Camiasca River: affluente Reach: rio camiasca

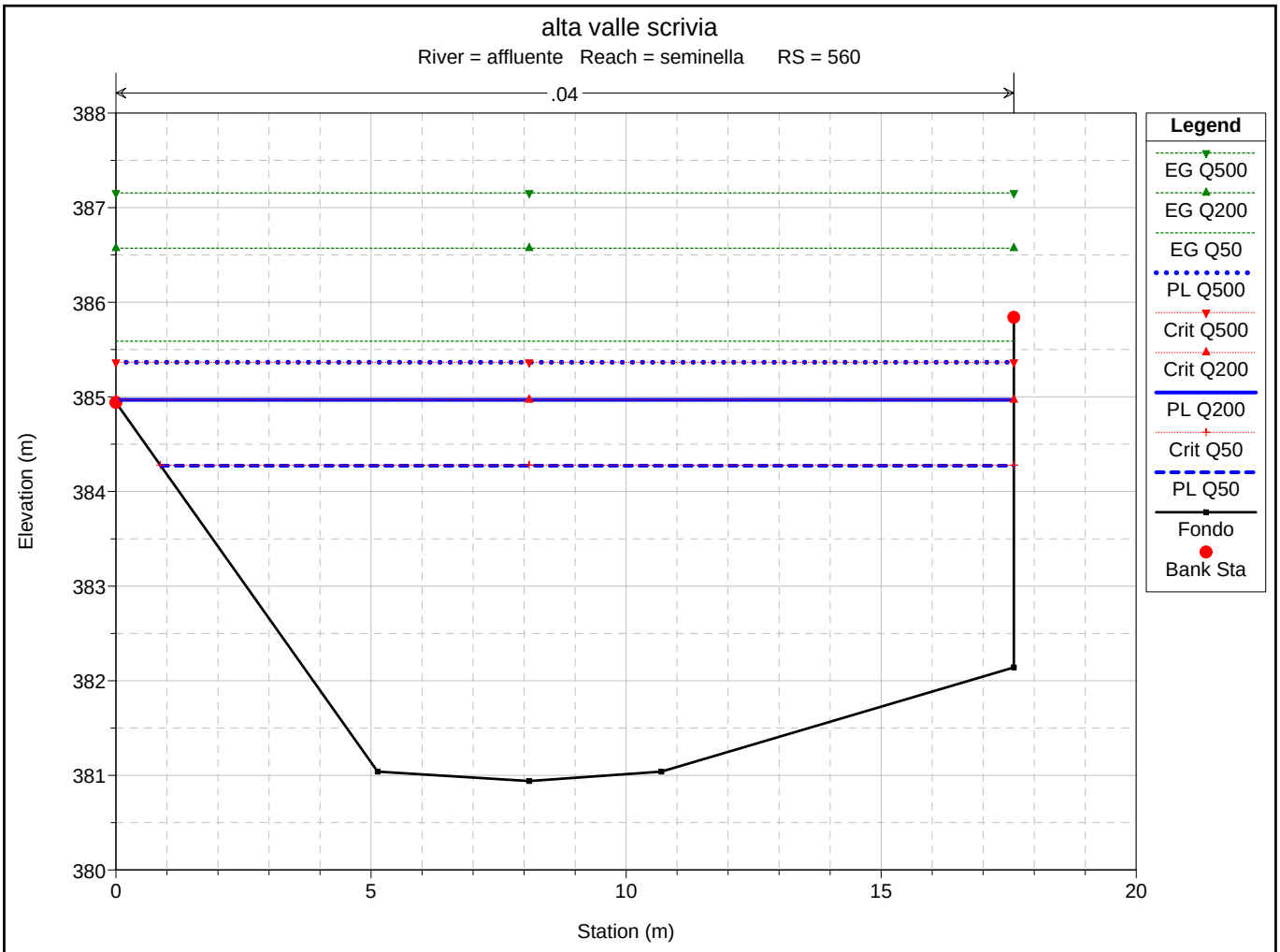
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
rio camiasca	100 sez. fittizia	Q50	89.00	385.70	389.07	387.70	-1.37	387.70	-1.37	387.78	389.47	0.002518	2.81	31.68	9.40	0.49
rio camiasca	100 sez. fittizia	Q200	128.00	385.70	389.97	387.70	-2.27	387.70	-2.27	388.36	390.49	0.002731	3.19	40.10	9.40	0.49
rio camiasca	100 sez. fittizia	Q500	154.00	385.70	390.36	387.70	-2.66	387.70	-2.66	388.71	390.99	0.003115	3.51	43.83	9.40	0.52
rio camiasca	60. 60.	Q50	89.00	385.70	388.77	387.70	-1.07	387.70	-1.07	388.16	389.40	0.015399	3.50	25.42	9.40	0.64
rio camiasca	60. 60.	Q200	128.00	385.70	389.70	387.70	-2.00	387.70	-2.00	388.74	390.42	0.011969	3.75	34.09	9.40	0.60
rio camiasca	60. 60.	Q500	154.00	385.70	390.05	387.70	-2.35	387.70	-2.35	389.09	390.91	0.012739	4.12	37.39	9.40	0.63
rio camiasca	50. 50.	Q50	89.00	384.35	386.35	386.35	0.00	386.35	0.00	386.35	387.58	0.040121	4.91	18.12	9.07	1.11
rio camiasca	50. 50.	Q200	128.00	384.35	387.30	386.35	-0.95	386.35	-0.95	387.30	388.58	0.067710	5.02	25.50	9.87	0.93
rio camiasca	50. 50.	Q500	154.00	384.35	387.74	386.35	-1.39	386.35	-1.39	387.64	389.09	0.057808	5.16	29.87	9.87	0.89
rio camiasca	45. 45.	Q50	89.00	384.25	385.93	386.25	0.32	386.25	0.32	386.27	387.40	0.034126	5.37	16.58	9.87	1.32
rio camiasca	45. 45.	Q200	128.00	384.25	386.34	386.25	-0.09	386.25	-0.09	386.82	388.31	0.037125	6.22	20.59	9.87	1.37
rio camiasca	45. 45.	Q500	154.00	384.25	387.97	386.25	-1.72	386.25	-1.72	387.17	388.87	0.010297	4.19	36.76	9.87	0.69
rio camiasca	44. 44.	Q50	89.00	382.80	383.92	386.25	2.33	386.25	2.33	384.82	387.21	0.116307	8.03	11.08	9.87	2.42
rio camiasca	44. 44.	Q200	128.00	382.80	384.30	386.25	1.95	386.25	1.95	385.37	388.11	0.099514	8.65	14.79	9.87	2.26
rio camiasca	44. 44.	Q500	154.00	382.80	388.31	386.25	-2.06	386.25	-2.06	385.71	388.72	0.003576	2.83	54.42	9.87	0.38
rio camiasca	40. 40.	Q50	89.00	380.00	383.27	385.00	1.73	382.73	-0.54	382.37	383.79	0.006963	3.20	27.81	9.74	0.60
rio camiasca	40. 40.	Q200	128.00	380.00	386.00	385.00	-1.00	382.73	-3.27	382.99	386.26	0.002091	2.25	56.81	11.05	0.32
rio camiasca	40. 40.	Q500	154.00	380.00	388.18	385.00	-3.18	382.73	-5.45	383.35	388.36	0.001204	1.90	80.90	11.05	0.22
rio camiasca	30. 30.	Q50	89.00	379.22	383.27	385.00	1.73	382.27	-1.00	382.02	383.70	0.005164	2.93	30.40	9.61	0.53
rio camiasca	30. 30.	Q200	128.00	379.22	385.99	385.00	-0.99	382.27	-3.72	382.66	386.23	0.001829	2.16	59.16	11.00	0.30
rio camiasca	30. 30.	Q500	154.00	379.22	388.17	385.00	-3.17	382.27	-5.90	383.04	388.35	0.001100	1.85	83.15	11.00	0.22
rio camiasca	20. 20.	Q50	89.00	378.30	381.01	379.29	-1.72	379.29	-1.72	381.01	383.39	0.033251	6.83	13.03	2.72	1.32
rio camiasca	20. 20.	Q200	128.00	378.30	381.36	379.29	-2.07	379.29	-2.07	381.36	385.75	0.065377	9.28	13.79	1.58	1.69
rio camiasca	20. 20.	Q500	154.00	378.30	381.45	379.29	-2.16	379.29	-2.16	381.45	387.69	0.096374	11.07	13.91	1.13	1.99
rio camiasca	10. 10.	Q50	89.00	375.00	377.02	379.30	2.28	379.30	2.28	378.08	380.68	0.050162	8.48	10.50	6.70	2.16
rio camiasca	10. 10.	Q200	128.00	375.00	377.41	379.30	1.89	379.30	1.89	378.80	382.29	0.055359	9.79	13.07	6.70	2.24
rio camiasca	10. 10.	Q500	154.00	375.00	377.61	379.30	1.69	379.30	1.69	379.23	383.40	0.060410	10.66	14.45	6.70	2.32

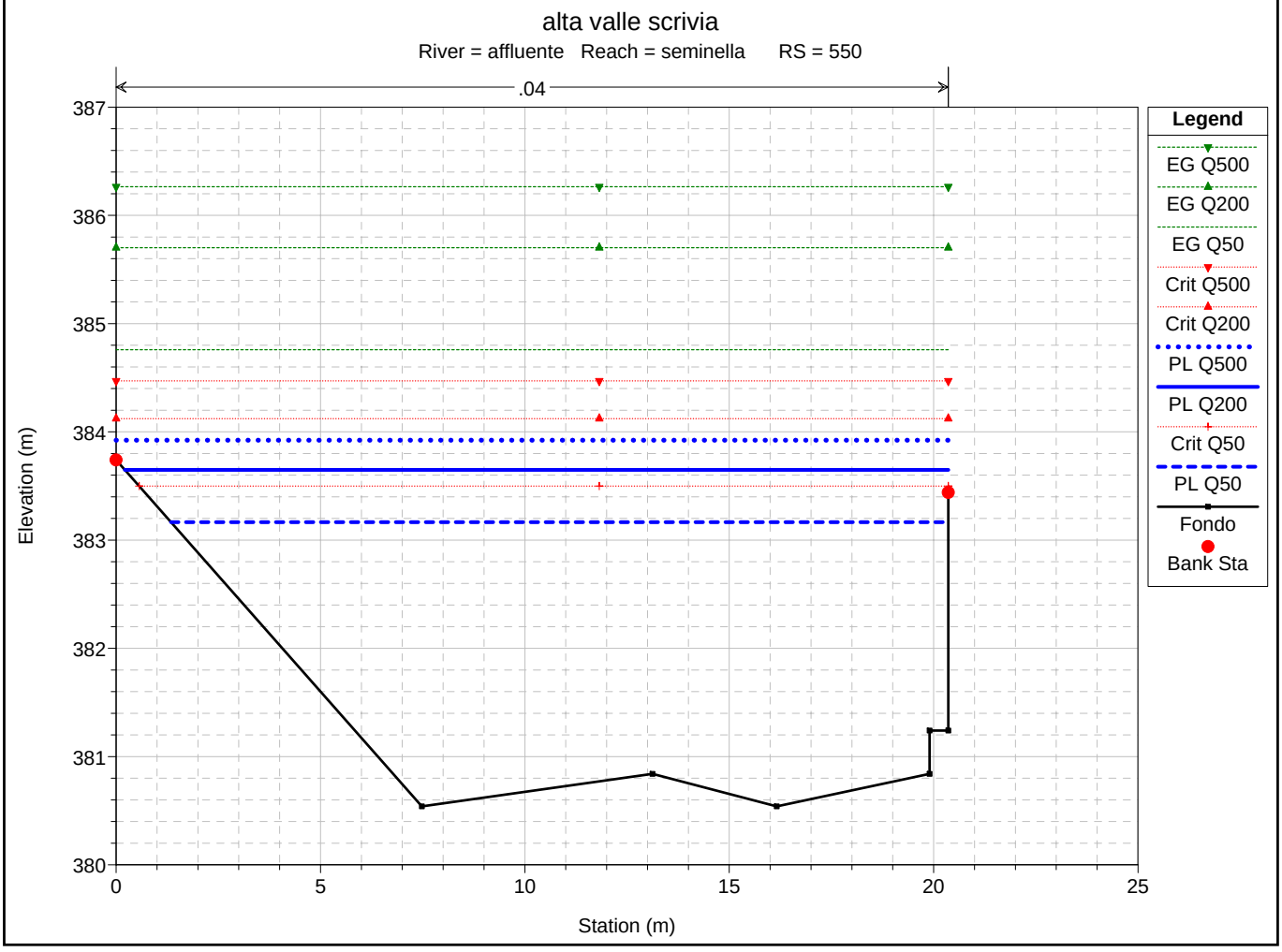
Torrente Seminella

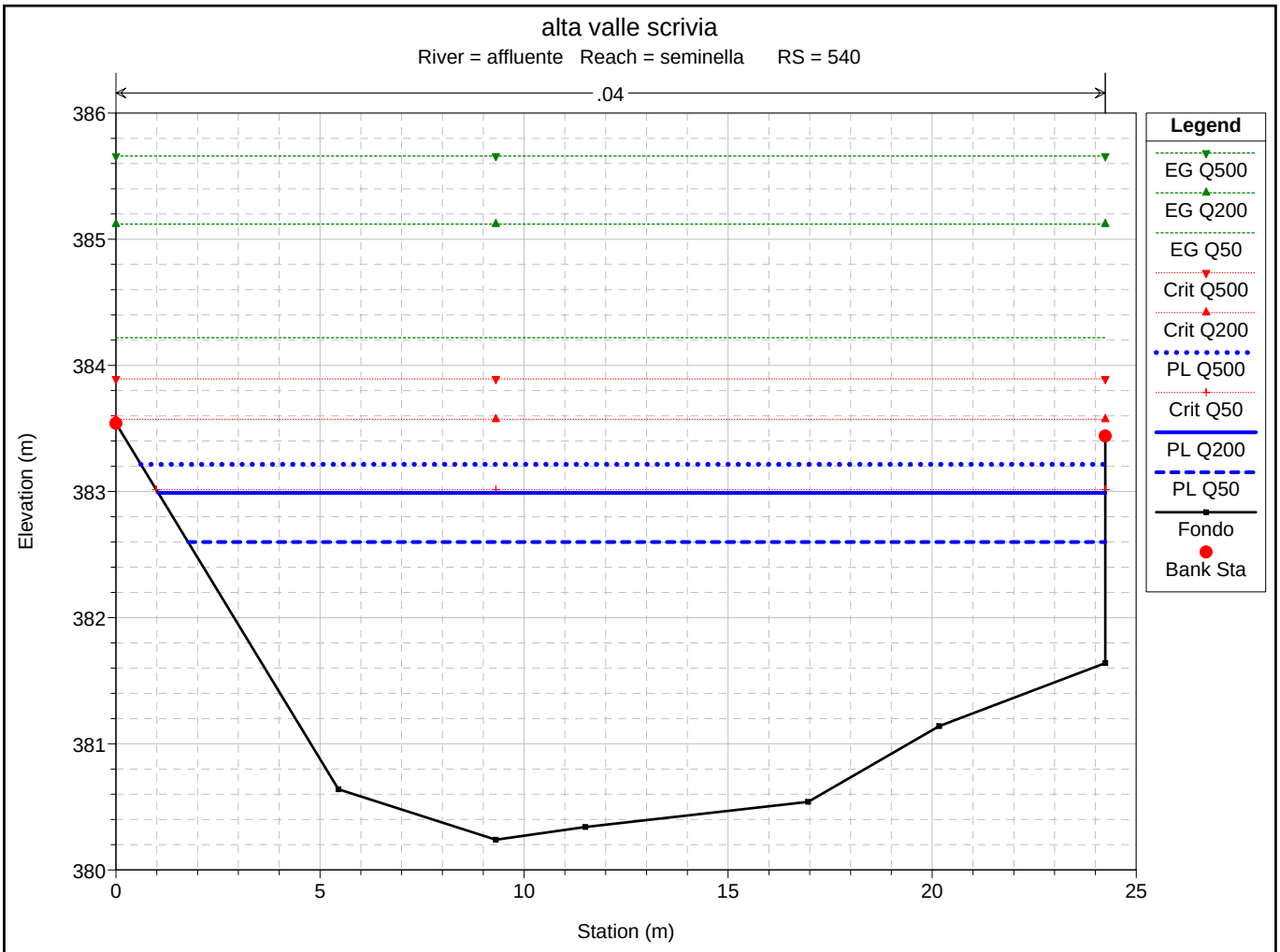
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

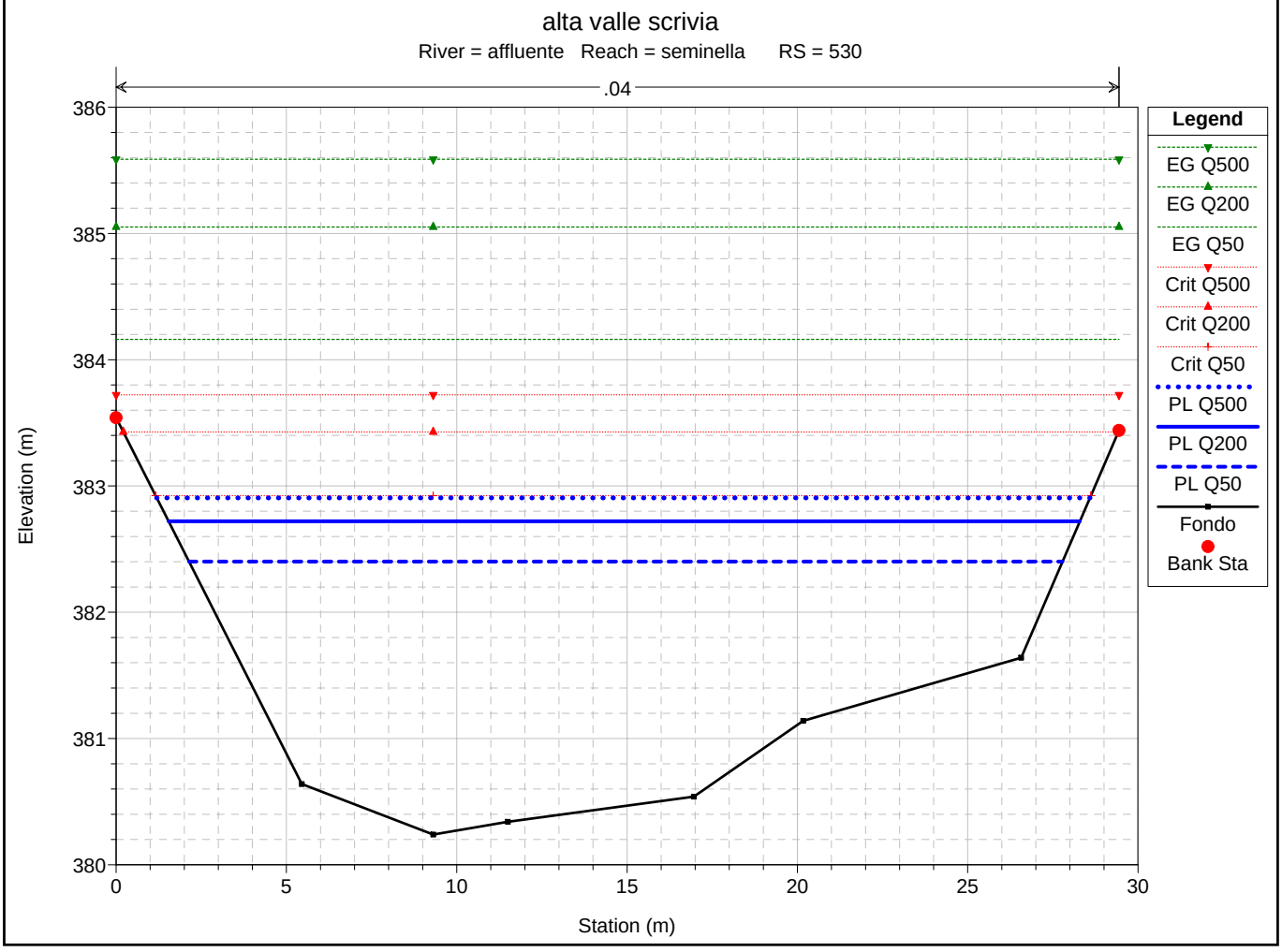

alta valle scrivia
affluente seminella
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Left Levee
Right Levee
Elevation (m)
385
380
375
370
430
440
450
460
470
480
490
500
510
520
530
550
560
800
1000
1200
1400
1600
Main Channel Distance (m)

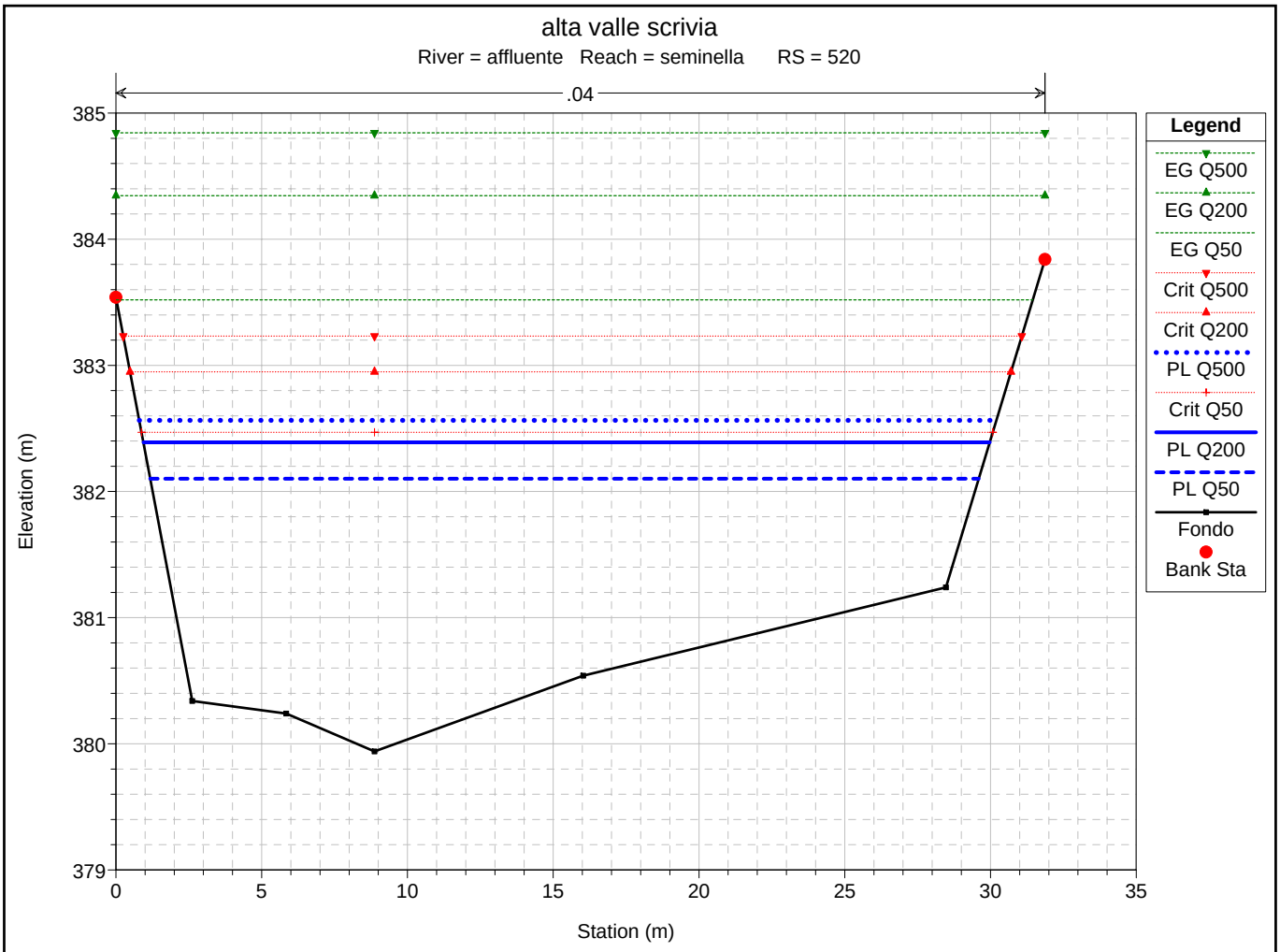

alta valle scrivia
affluente seminella
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Left Levee
Right Levee
Elevation (m)
370
365
360
270
280
291
296
305
308
420
430
200
400
600
800
Main Channel Distance (m)

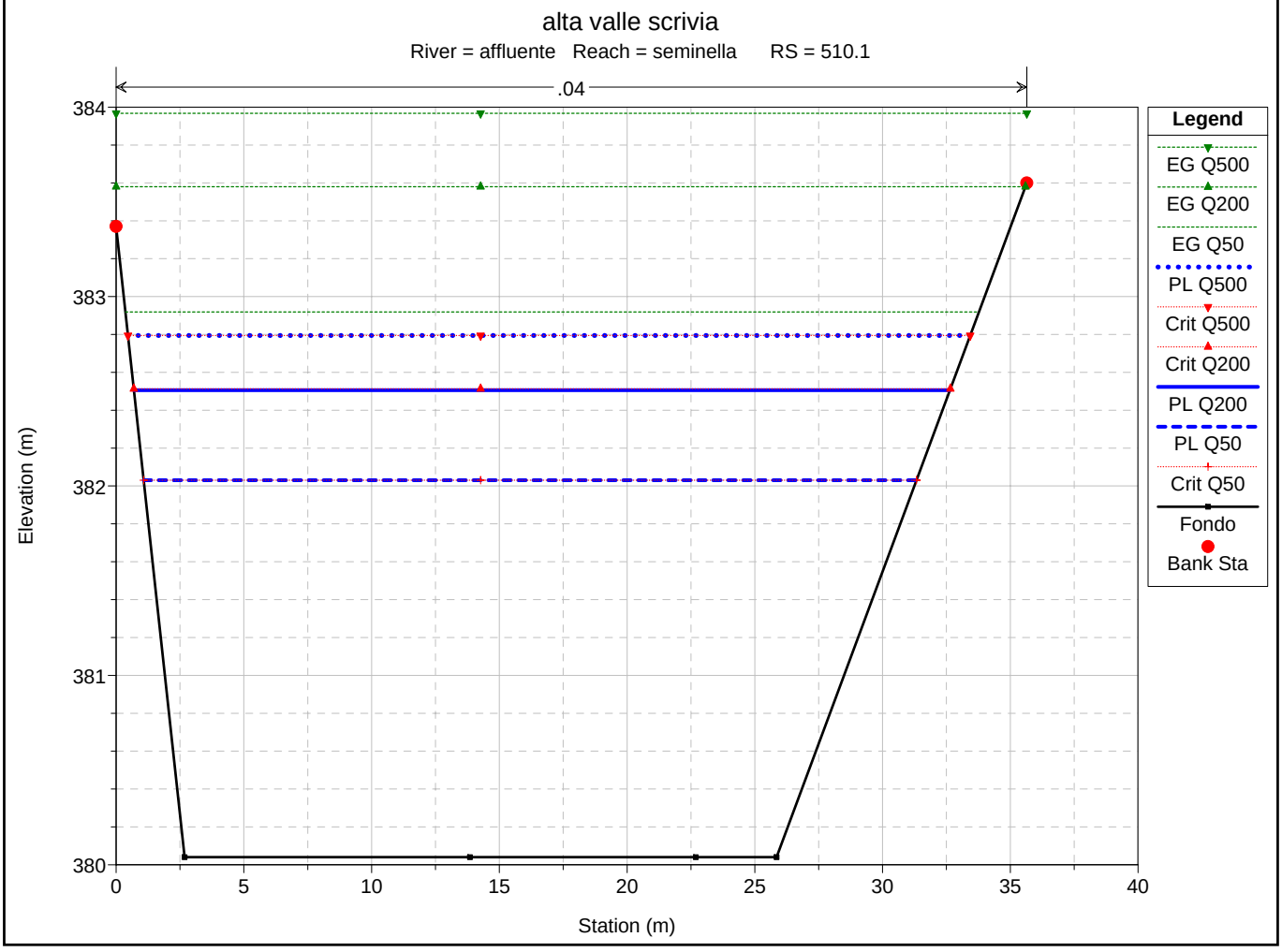

alta valle scrivia
River = affluente Reach = seminella RS = 560
.04
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
388
387
386
385
384
383
382
381
380
0
5
10
15
20

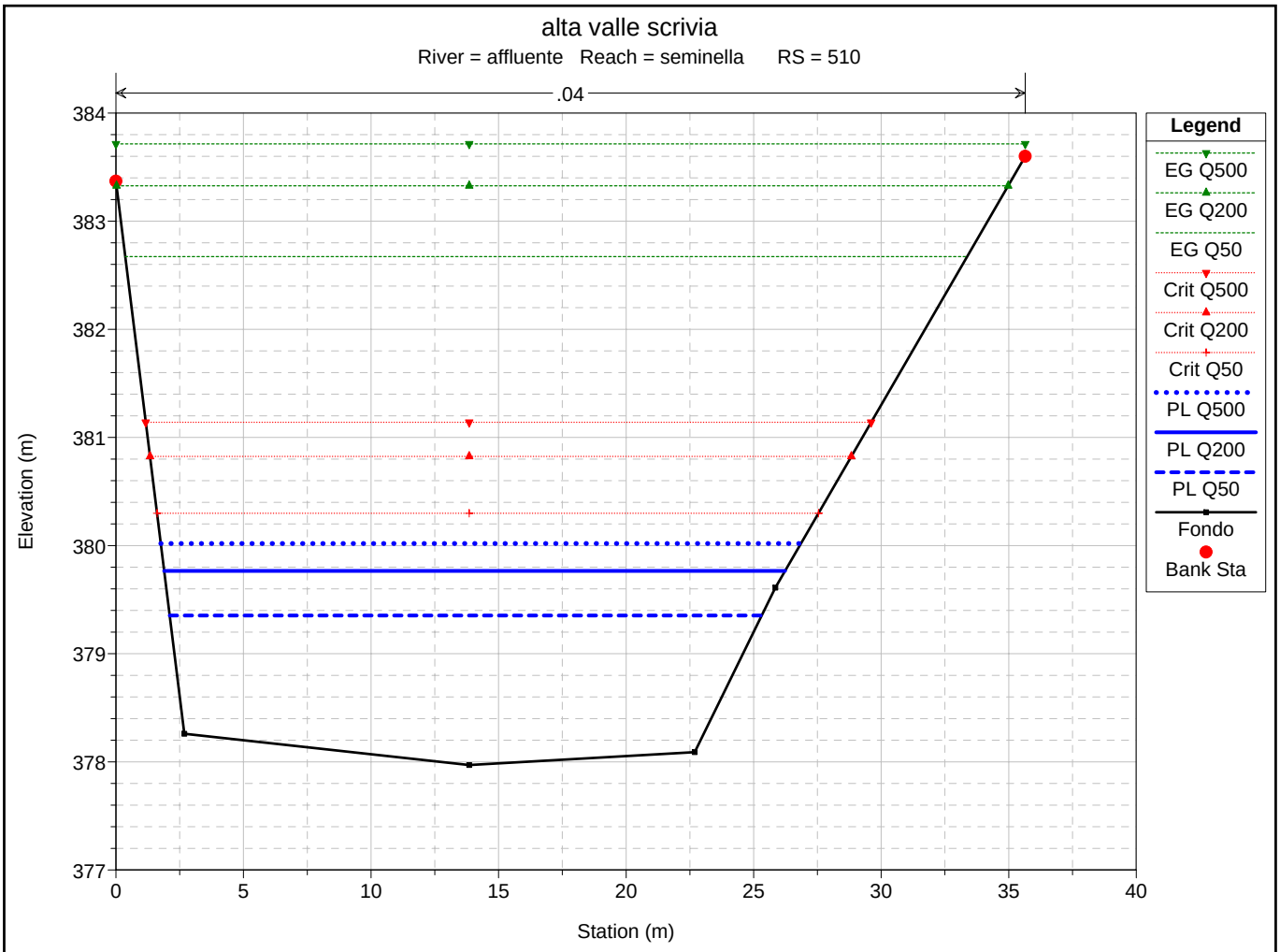

alta valle scrivia
River = affluente Reach = seminella RS = 550
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
387
386
385
384
383
382
381
380
0
5
10
15
20
25

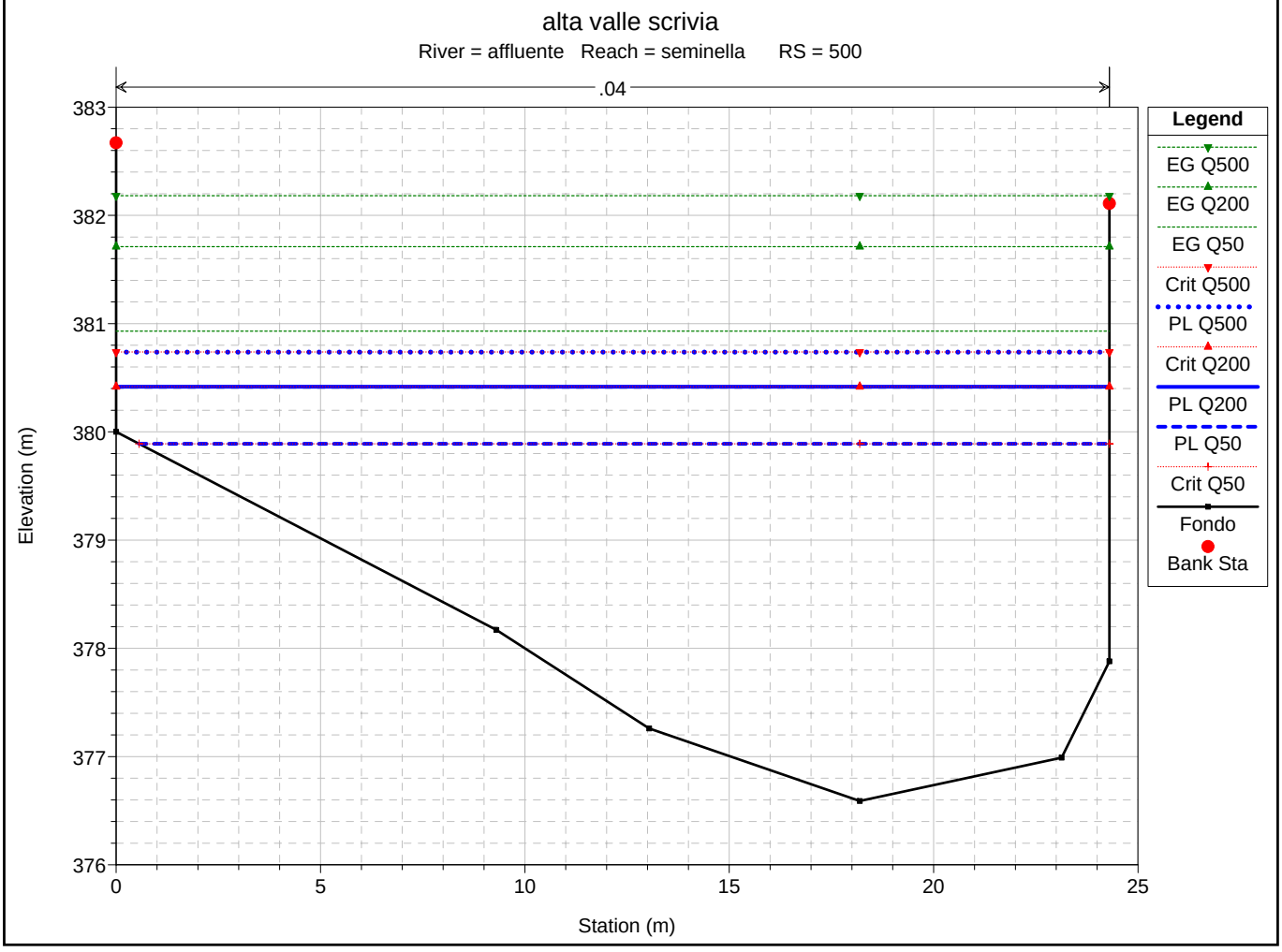

alta valle scrivia
River = affluente Reach = seminella RS = 540
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
386
385
384
383
382
381
380
0
5
10
15
20
25

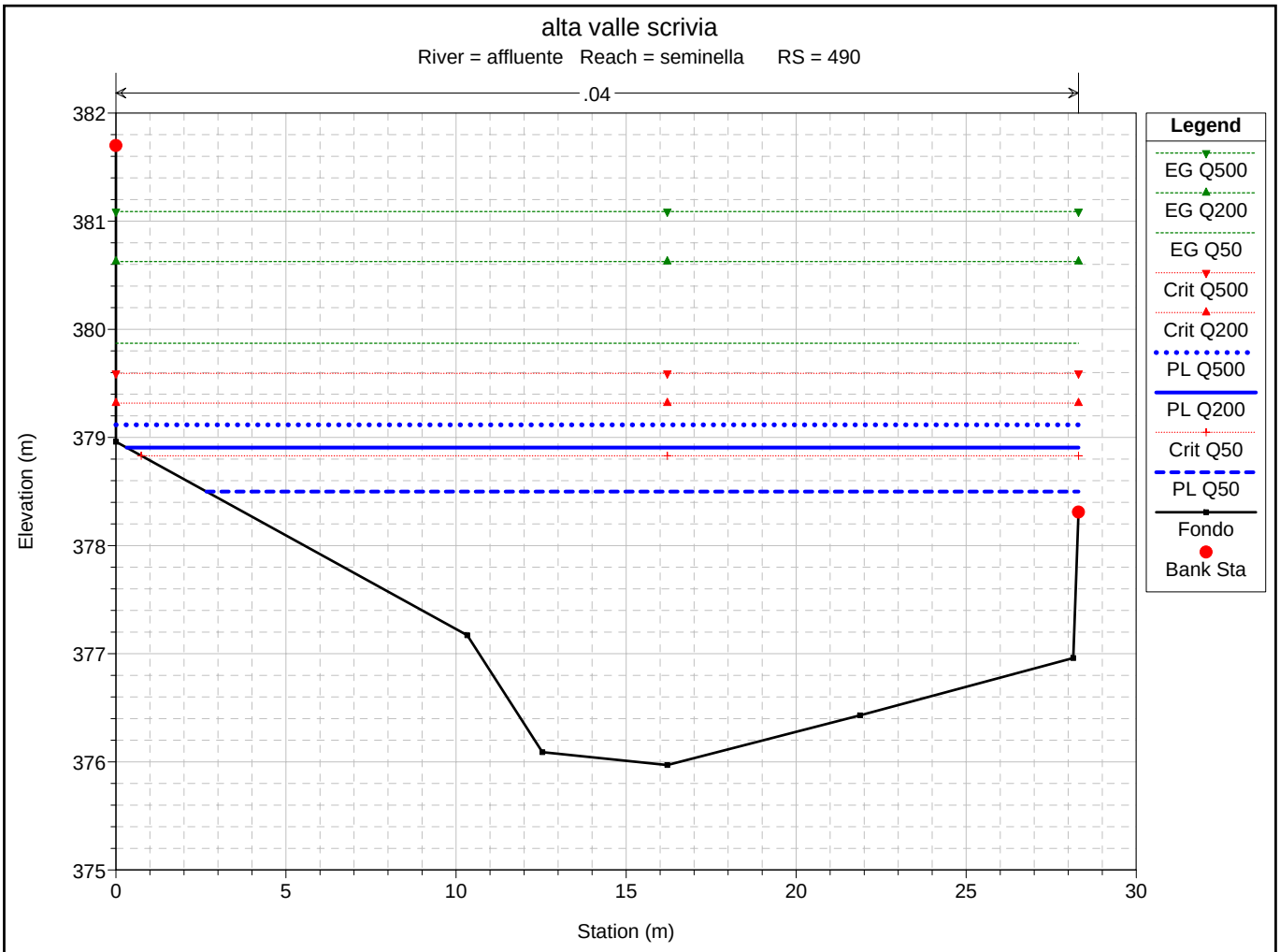

alta valle scrivia
River = affluente Reach = seminella RS = 530
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
386
385
384
383
382
381
380
0
5
10
15
20
25
30

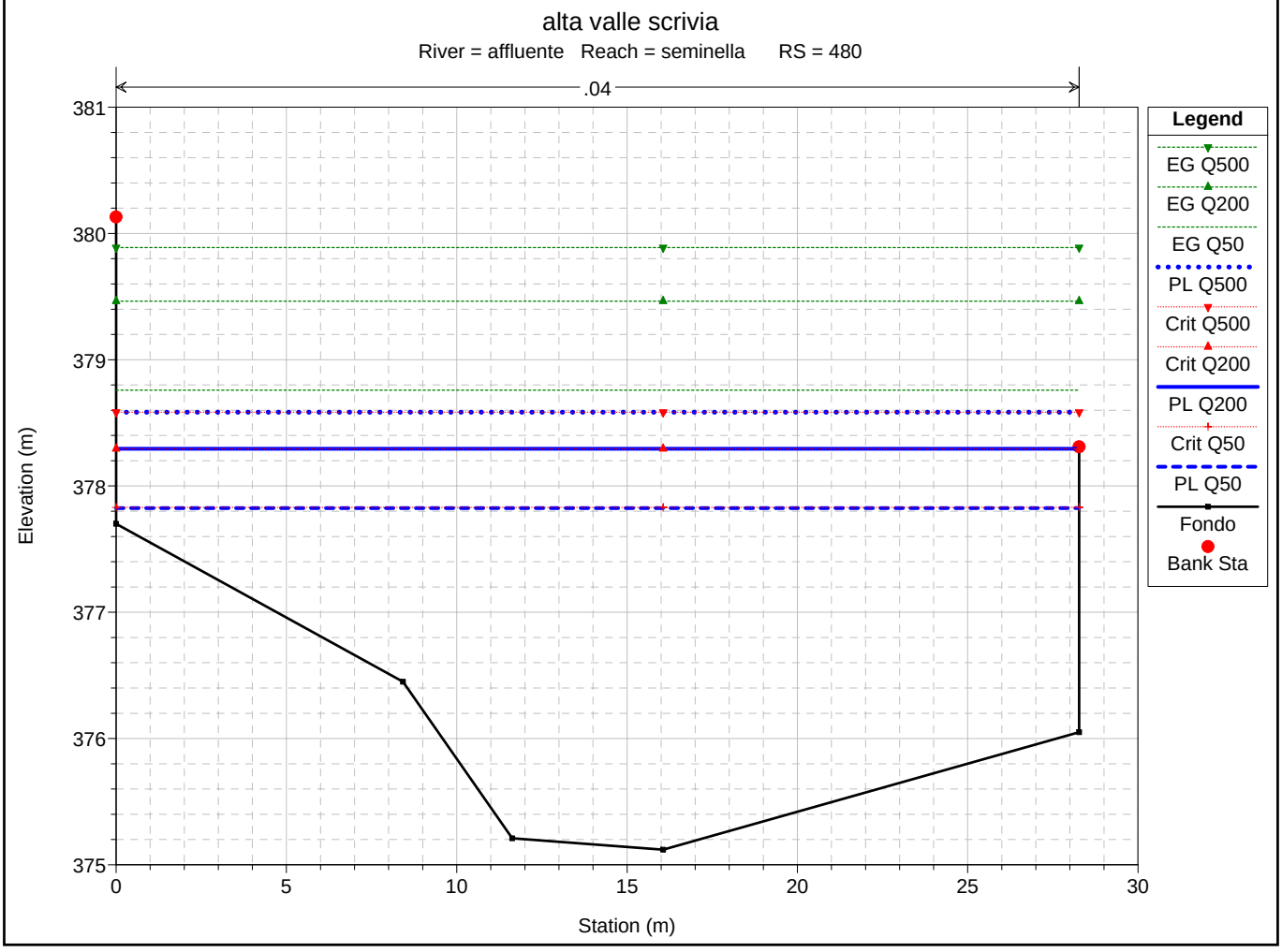

alta valle scrivia
River = affluente Reach = seminella RS = 520
.04
Elevation (m)
Station (m)
385
384
383
382
381
380
379
0
5
10
15
20
25
30
35
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

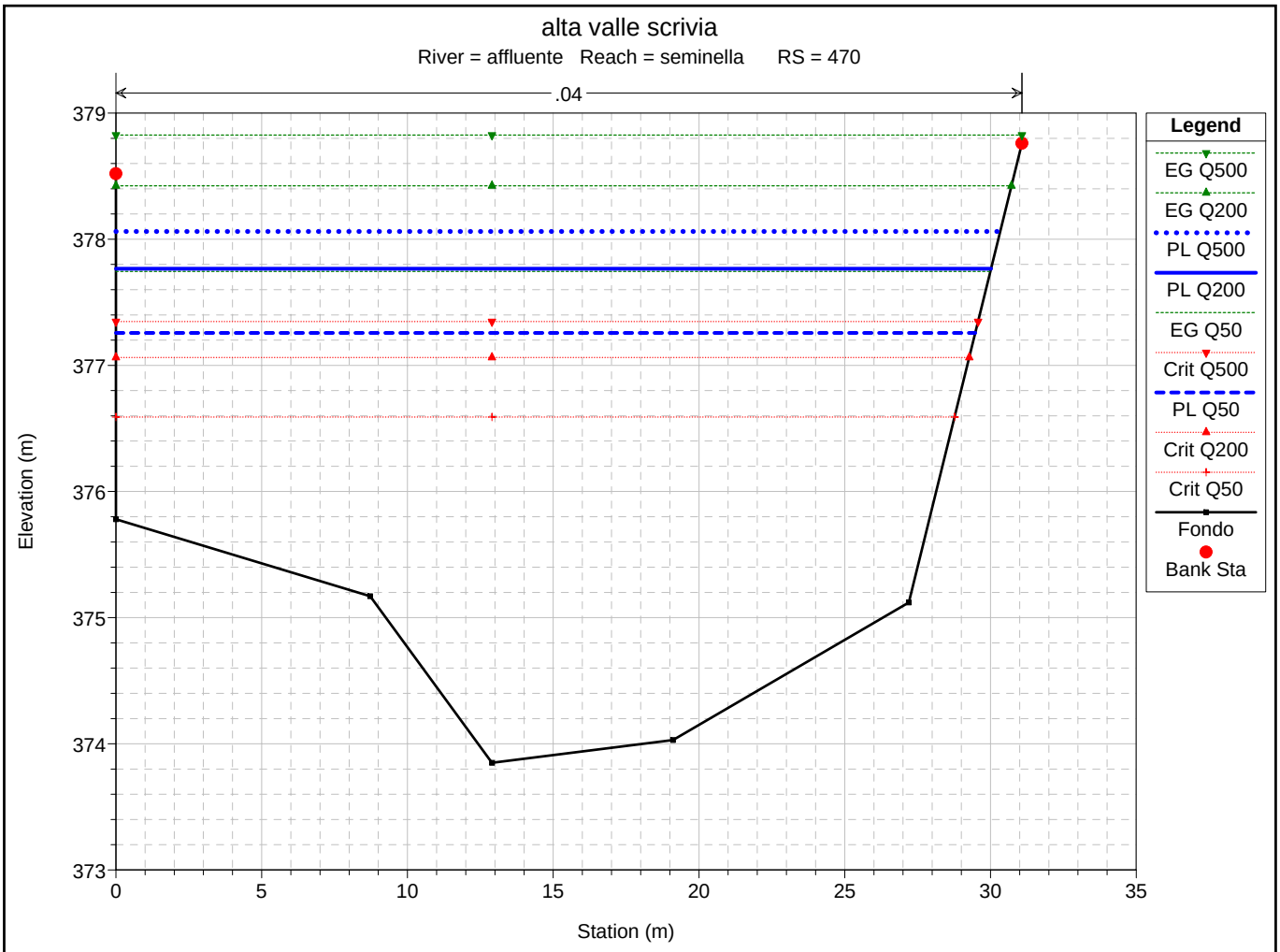

alta valle scrivia
River = affluente Reach = seminella RS = 510.1
.04
Elevation (m)
Station (m)
384
383
382
381
380
0
5
10
15
20
25
30
35
40
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

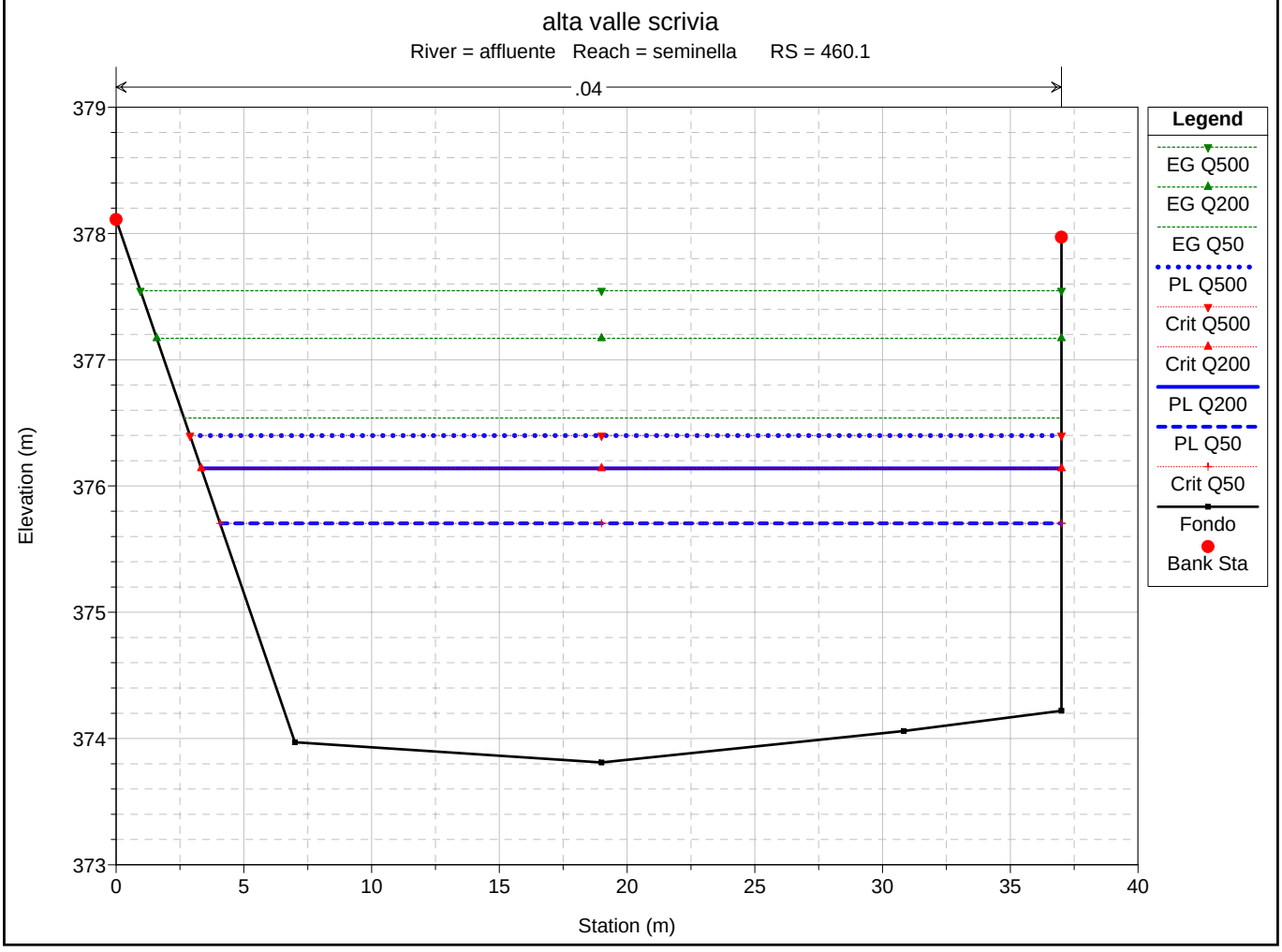

alta valle scrivia
River = affluente Reach = seminella RS = 510
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
384
383
382
381
380
379
378
377
0
5
10
15
20
25
30
35
40

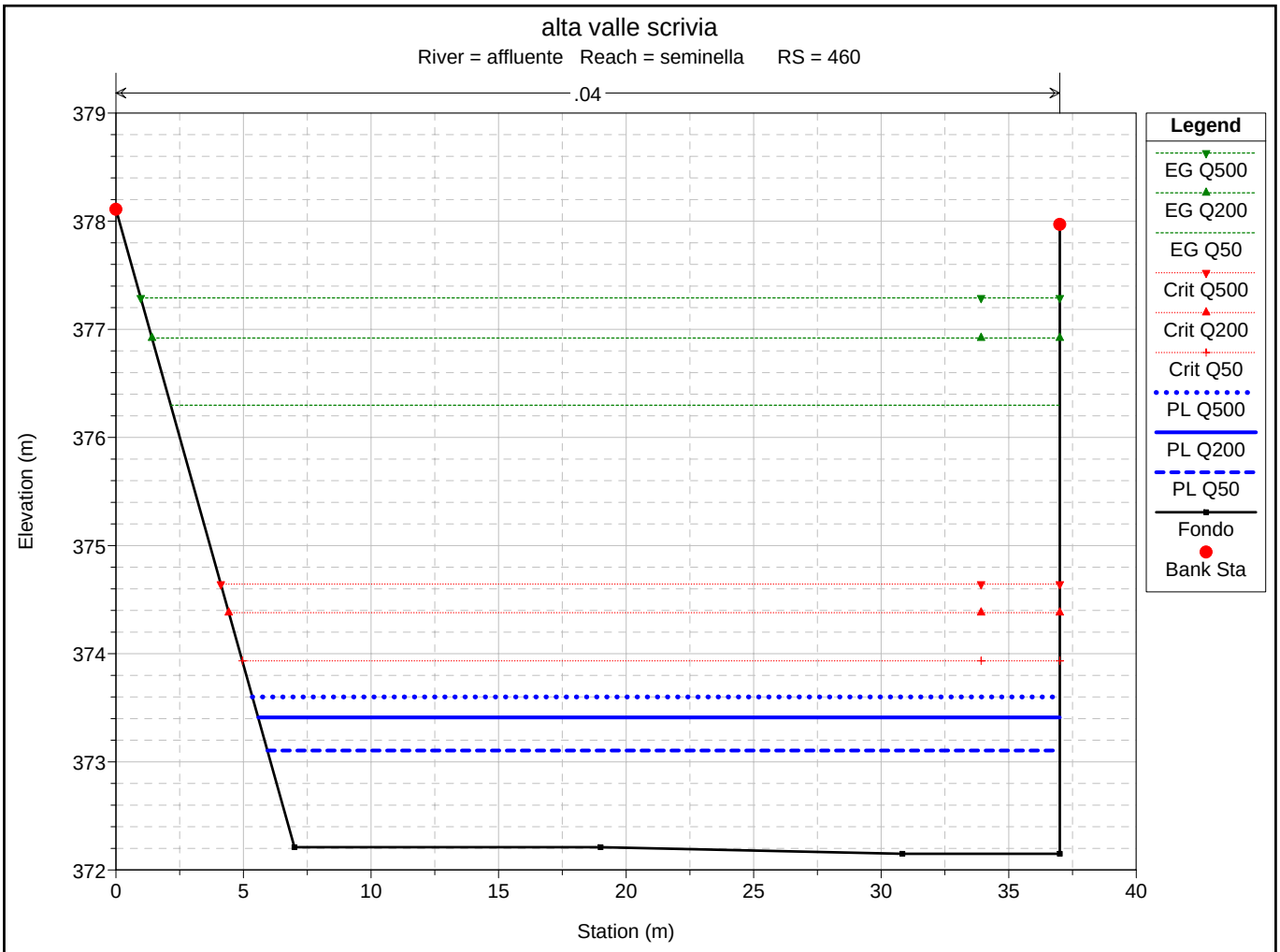

alta valle scrivia
River = affluente Reach = seminella RS = 500
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
383
382
381
380
379
378
377
376
0
5
10
15
20
25

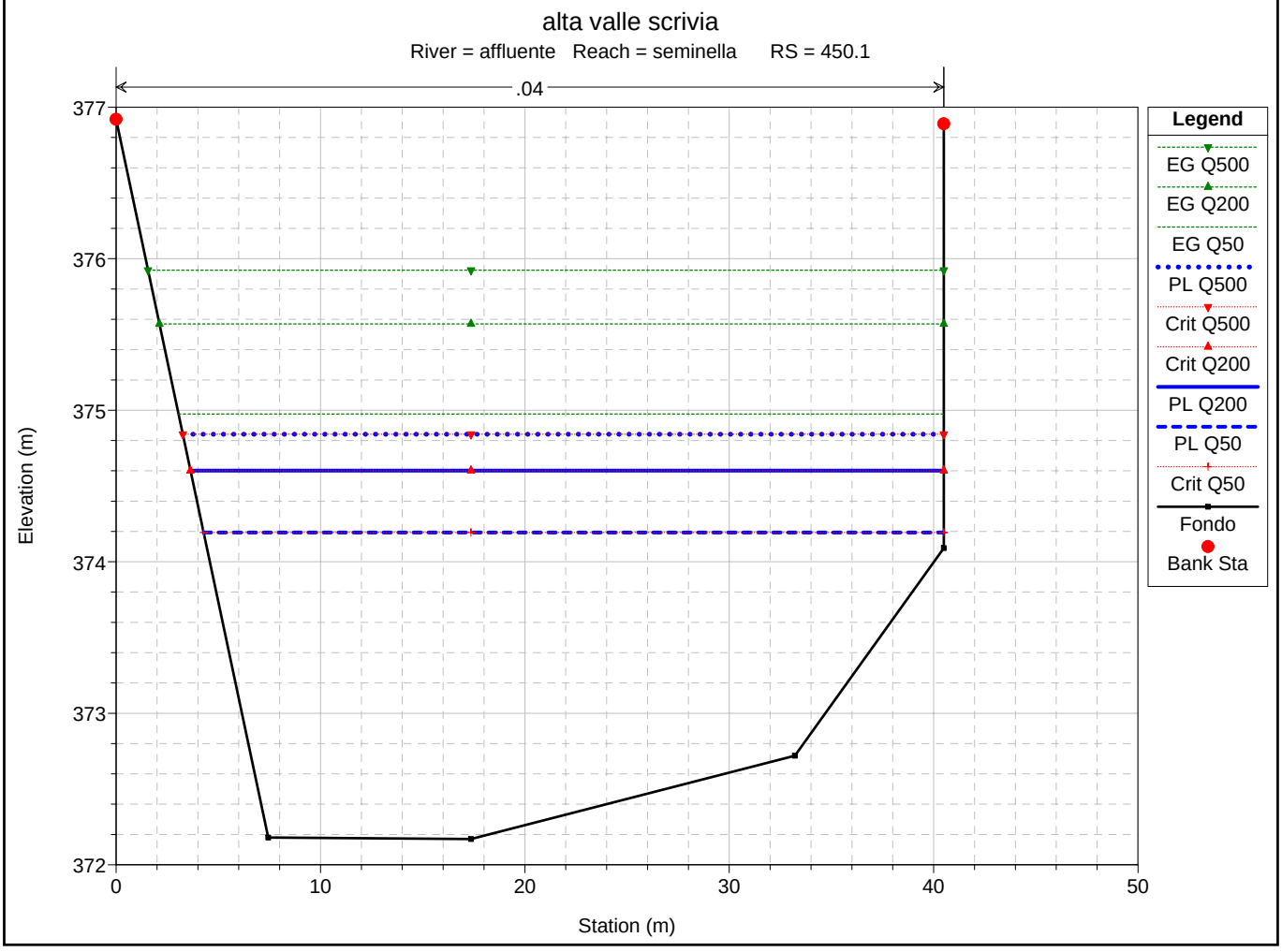

alta valle scrivia
River = affluente Reach = seminella RS = 490
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

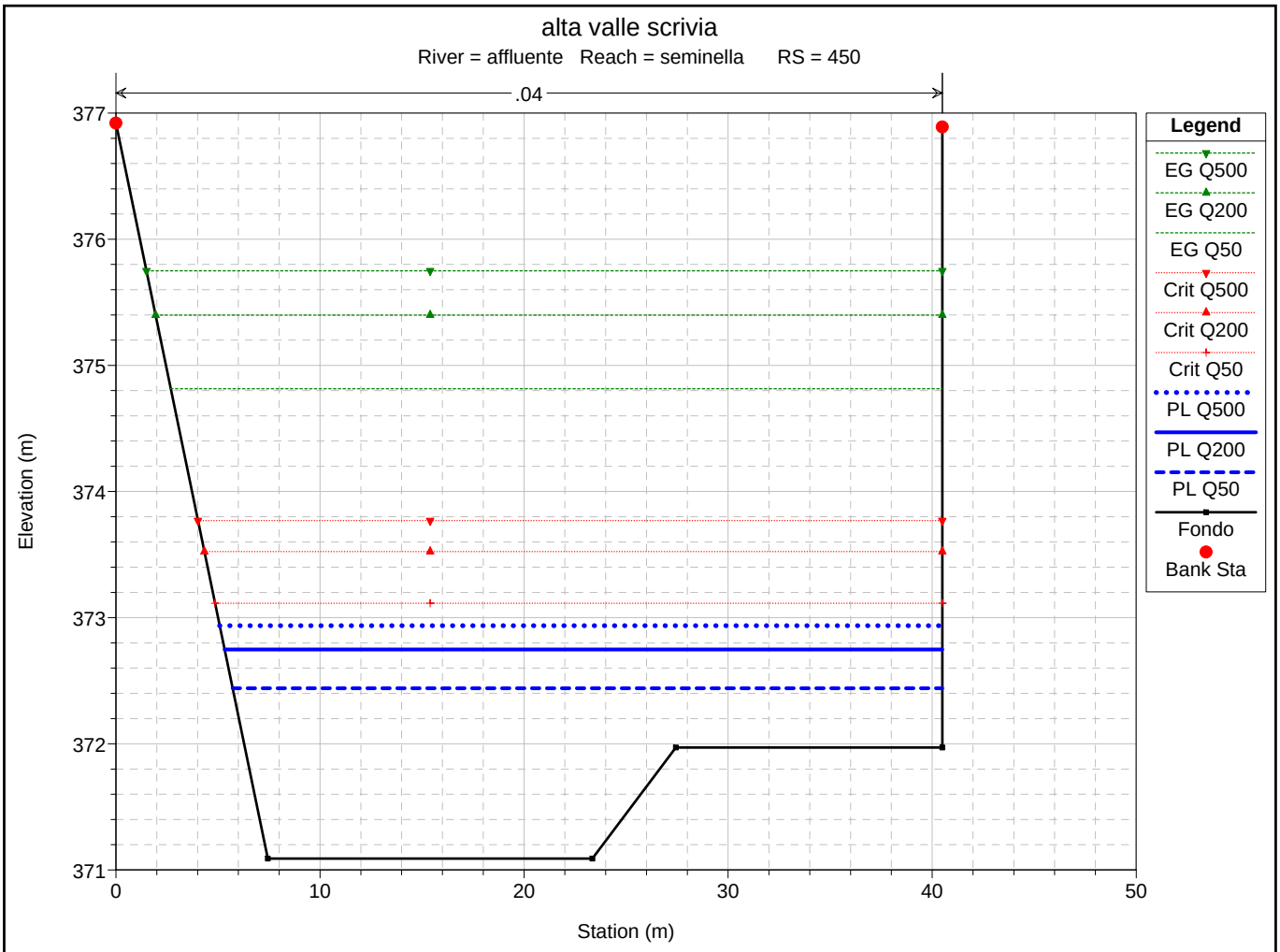

alta valle scrivia
River = affluente Reach = seminella RS = 480
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

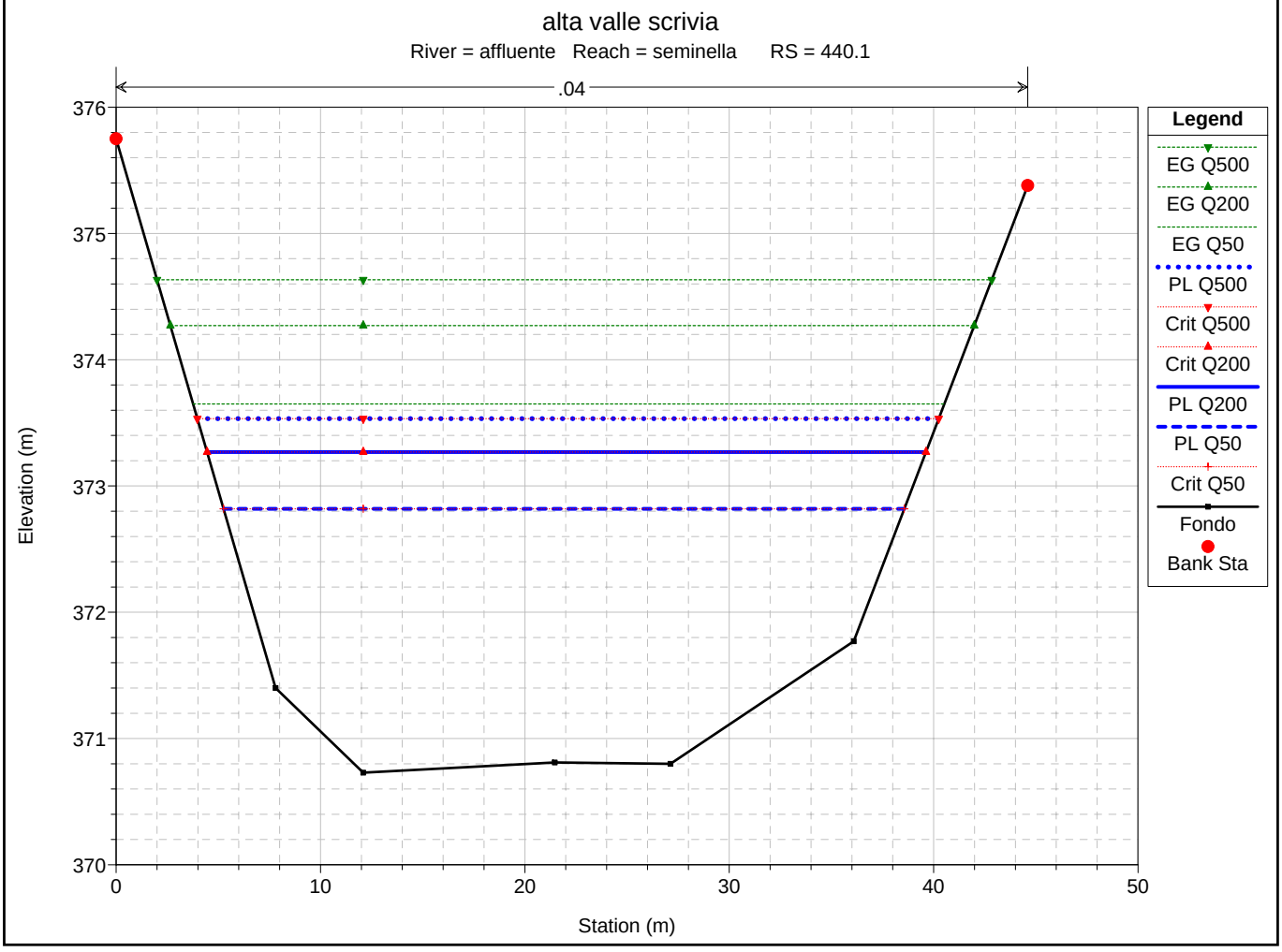

alta valle scrivia
River = affluente Reach = seminella RS = 470
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta

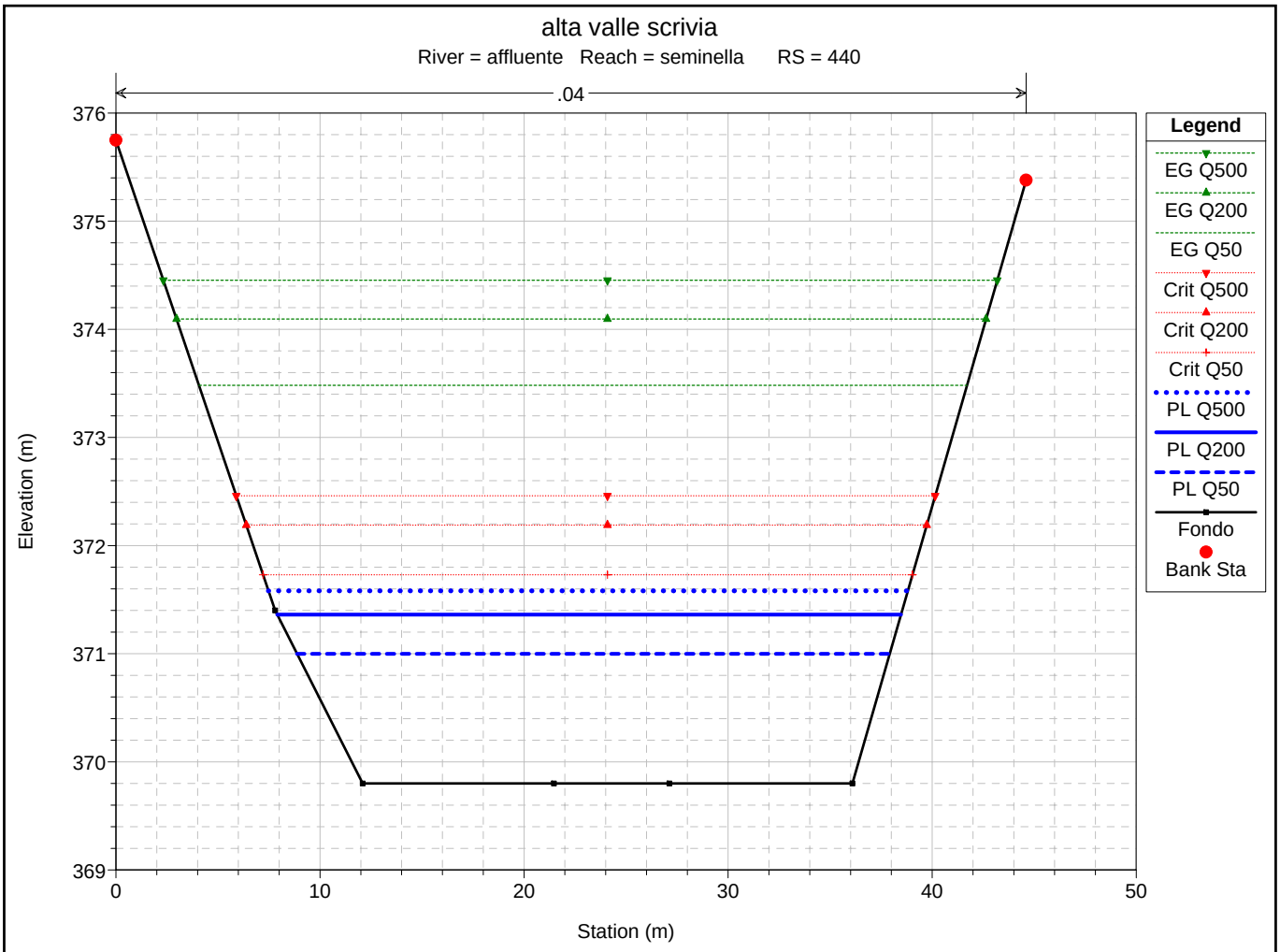

alta valle scrivia
River = affluente Reach = seminella RS = 460.1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

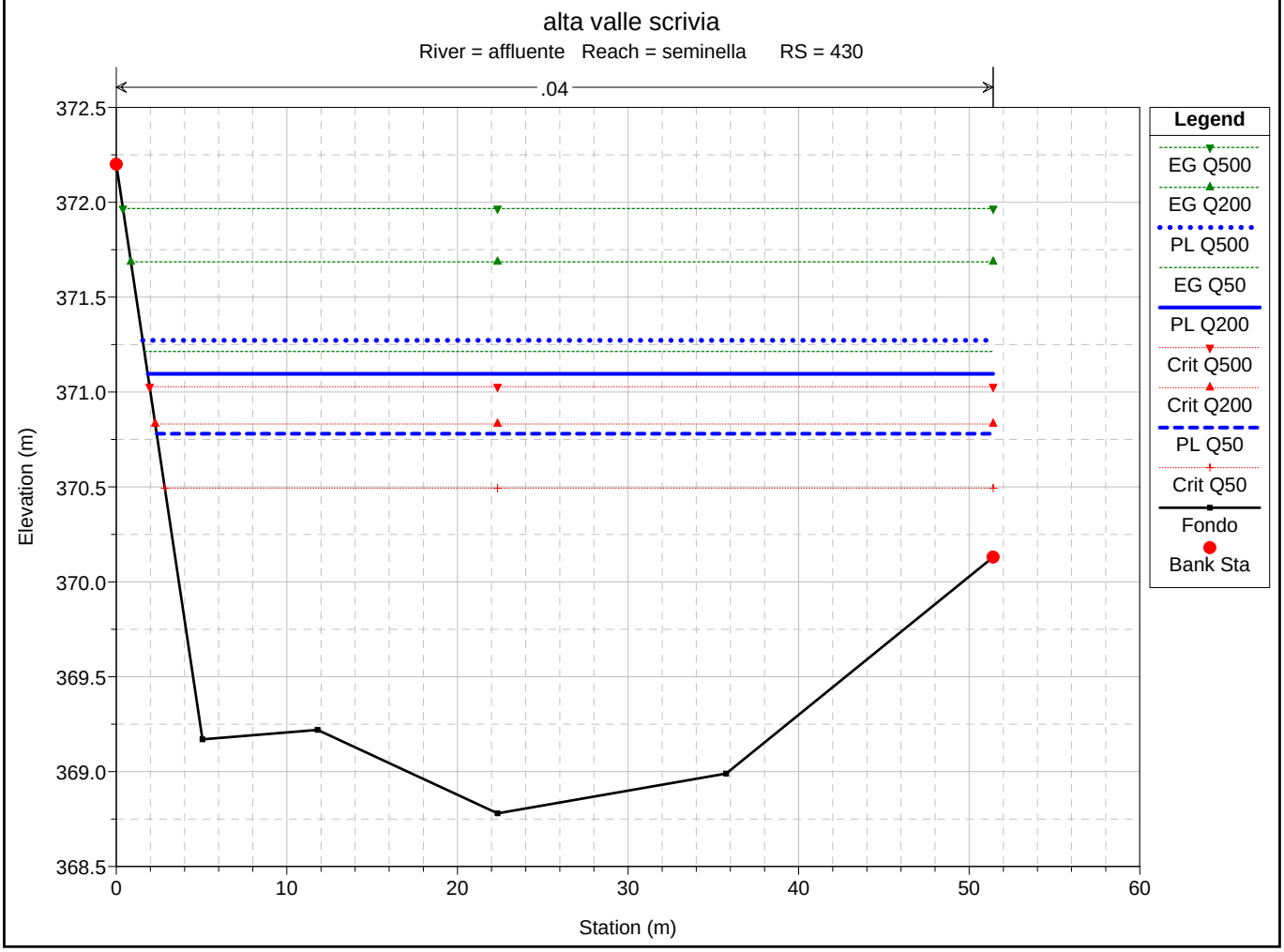

alta valle scrivia
River = affluente Reach = seminella RS = 460
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

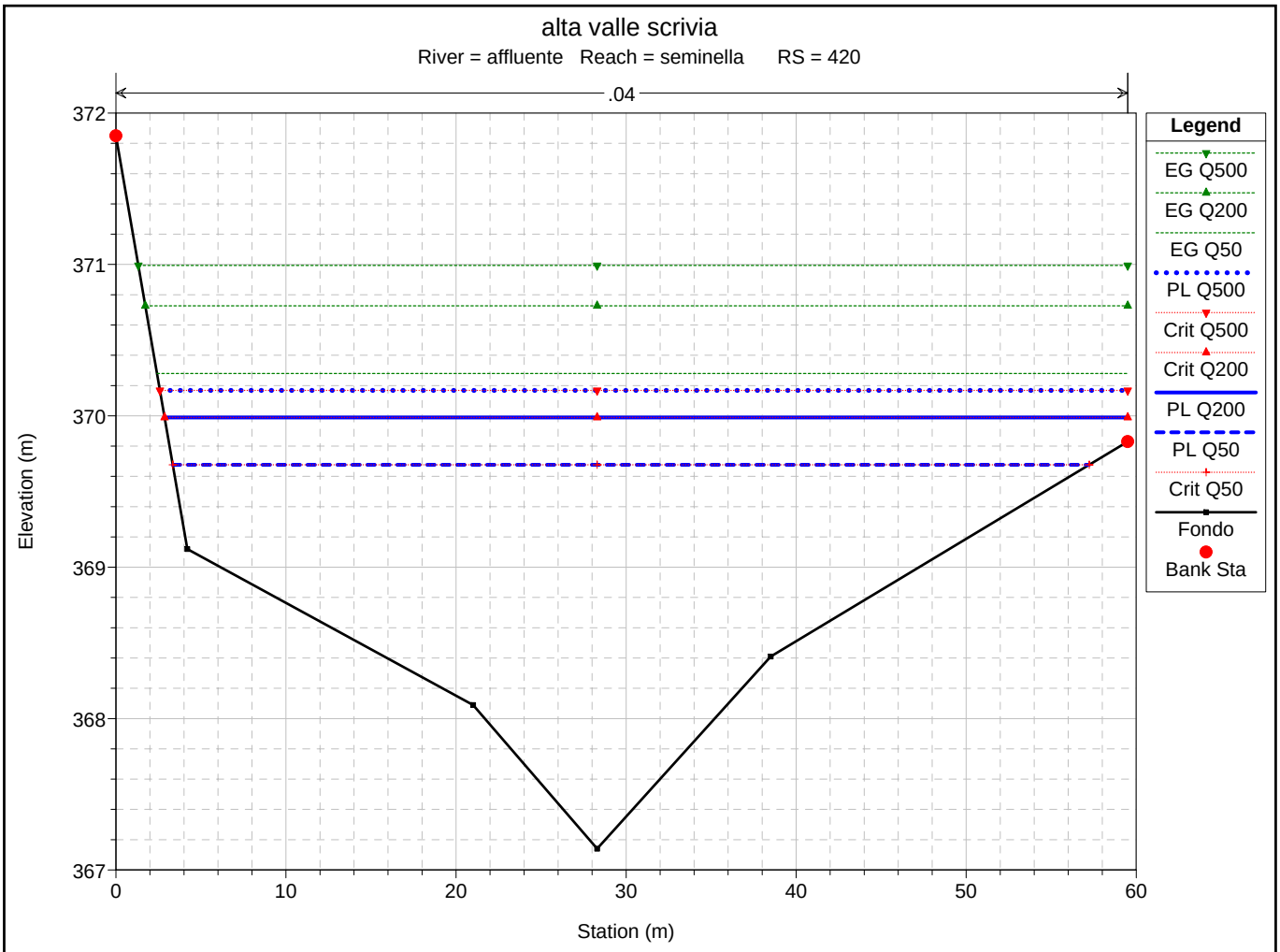

alta valle scrivia
River = affluente Reach = seminella RS = 450.1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

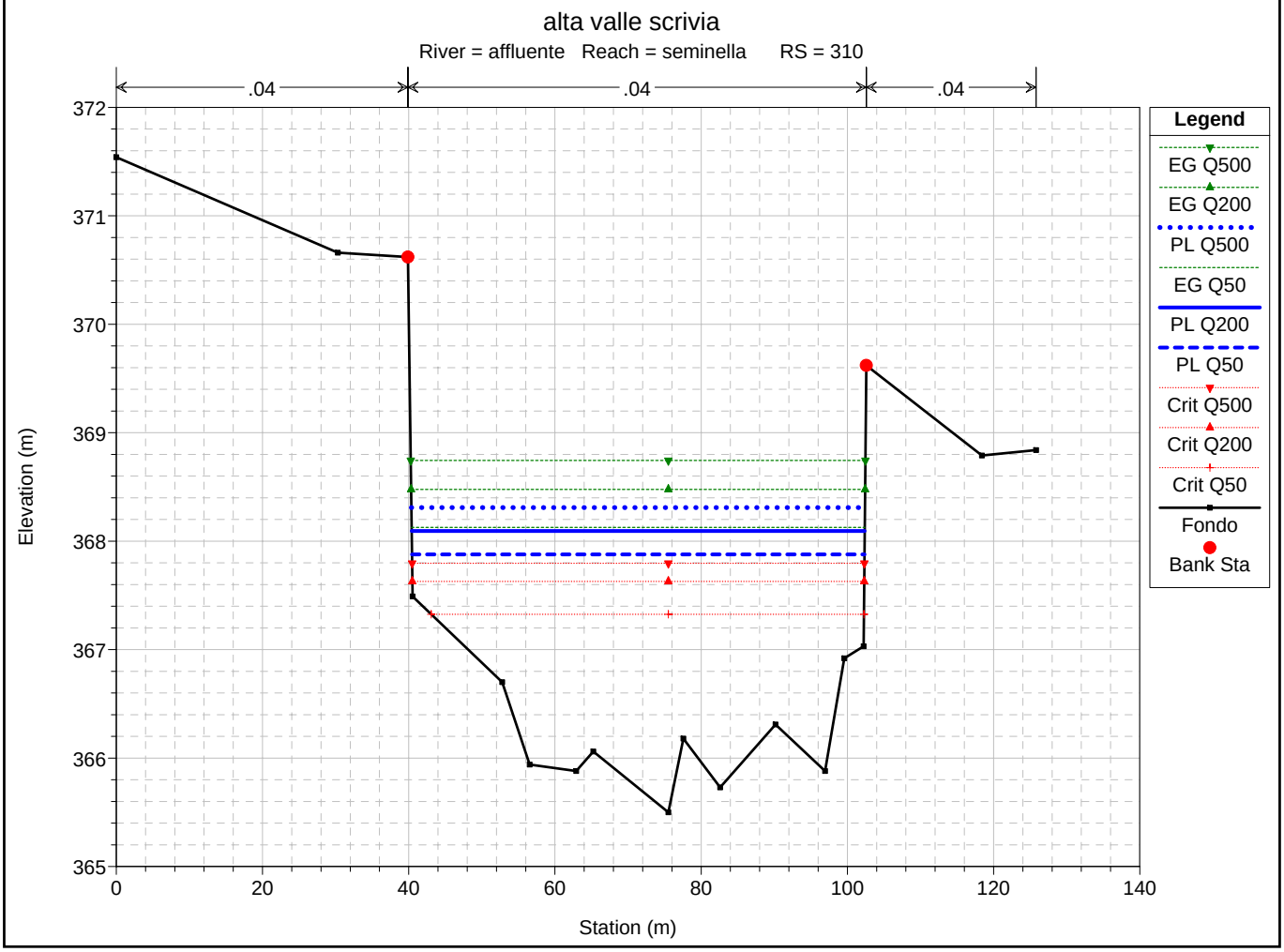

alta valle scrivia
River = affluente Reach = seminella RS = 450
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

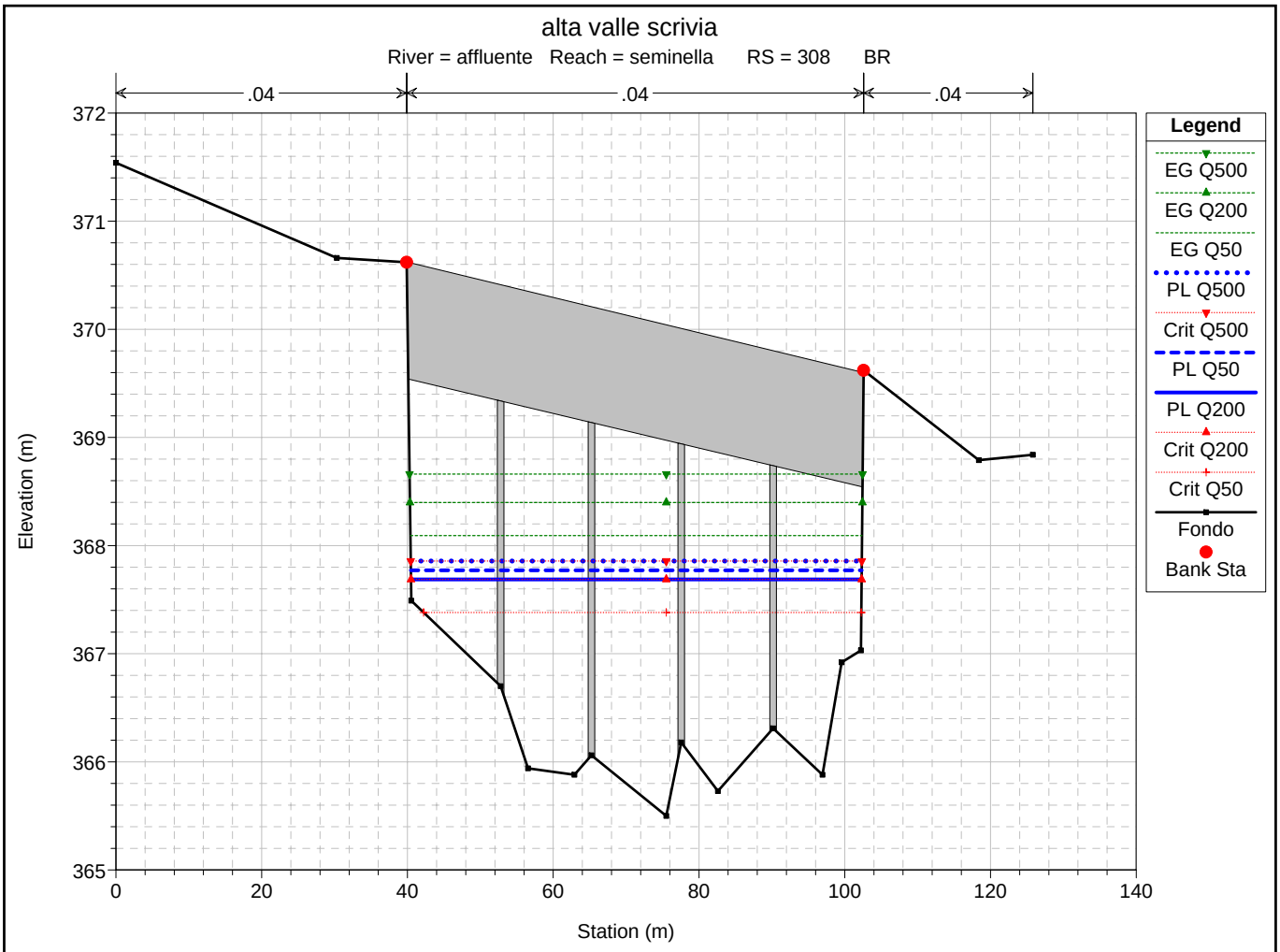

alta valle scrivia
River = affluente Reach = seminella RS = 440.1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

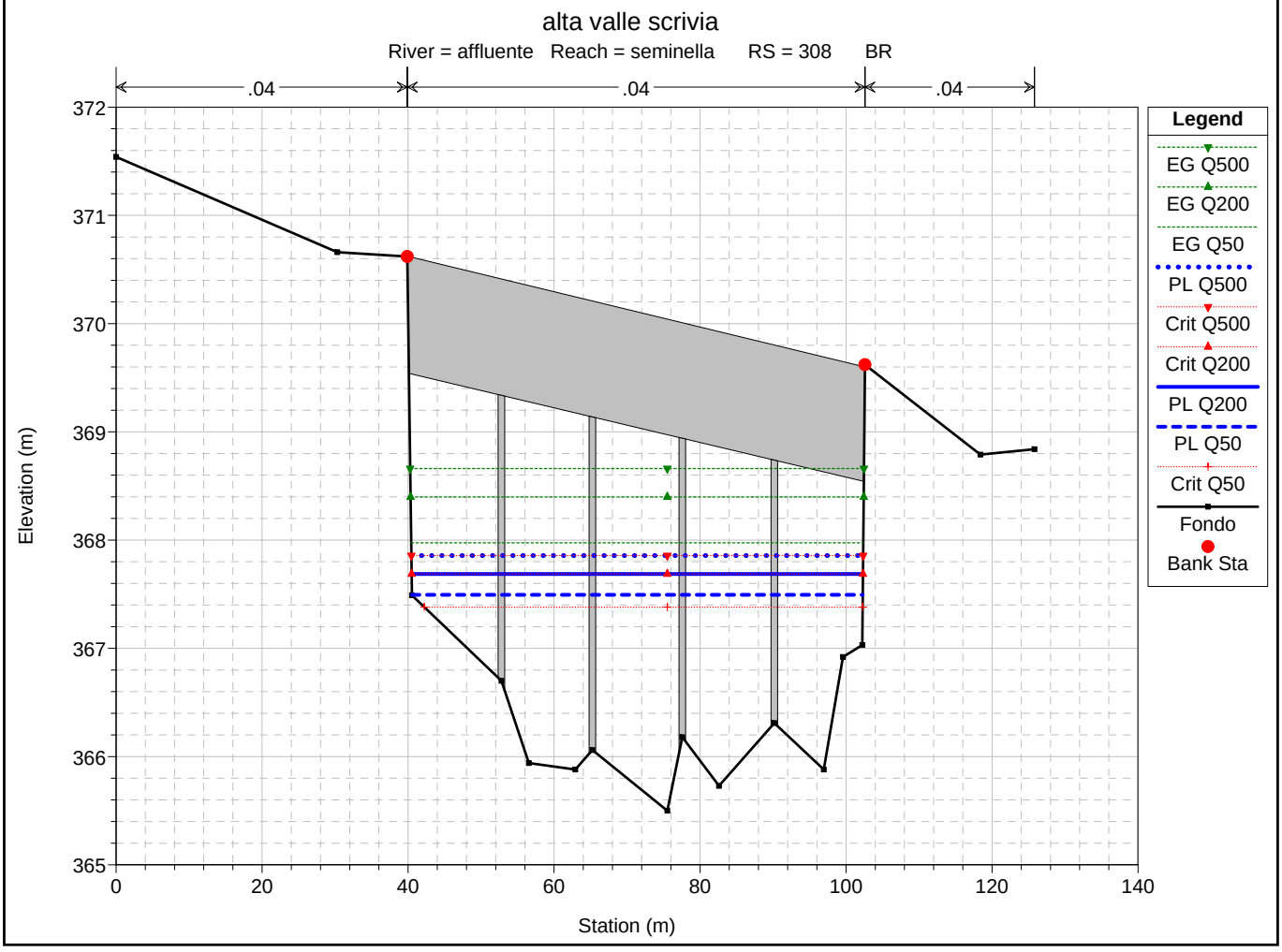

alta valle scrivia
River = affluente Reach = seminella RS = 440
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

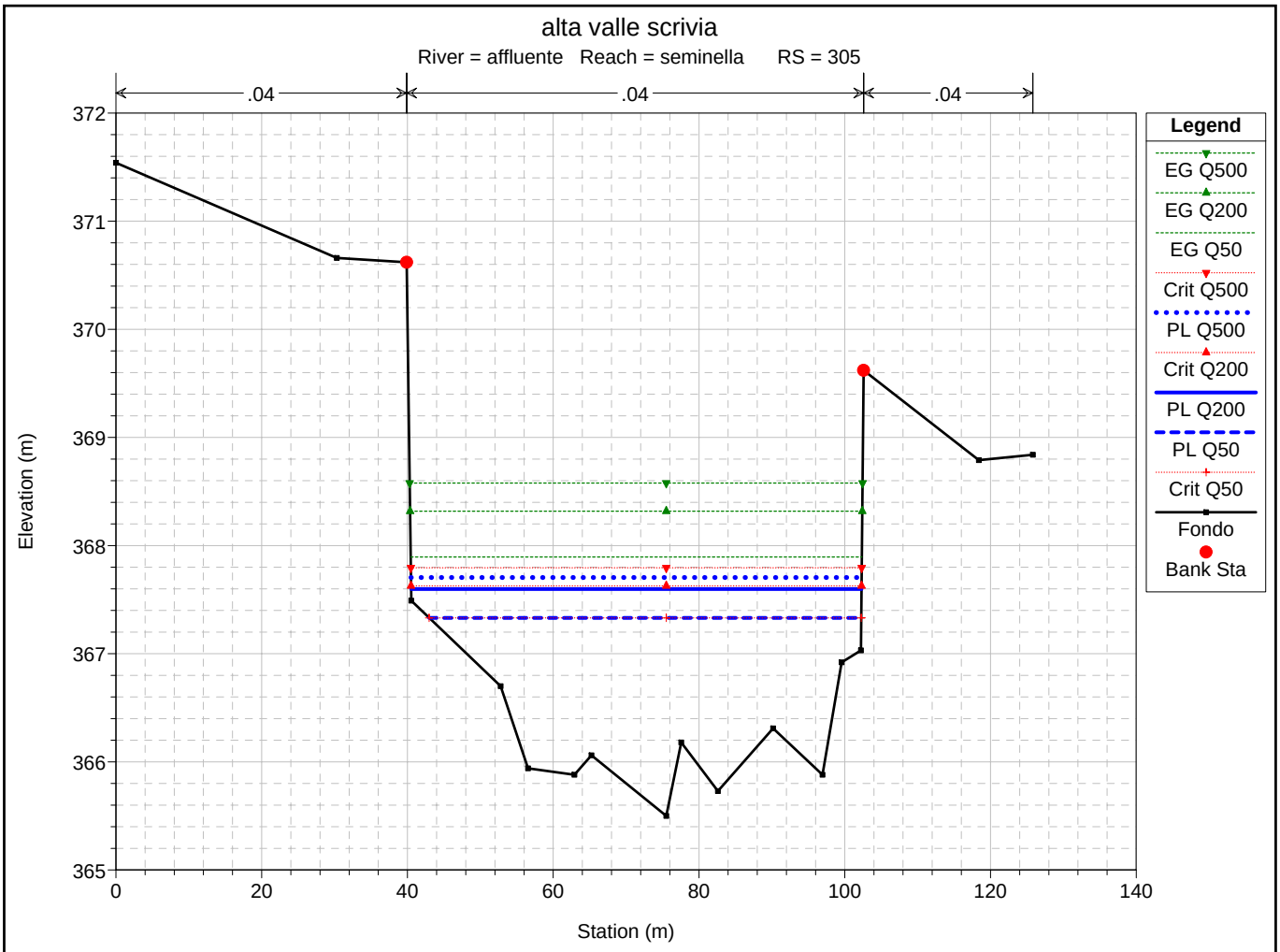

alta valle scrivia
River = affluente Reach = seminella RS = 430
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

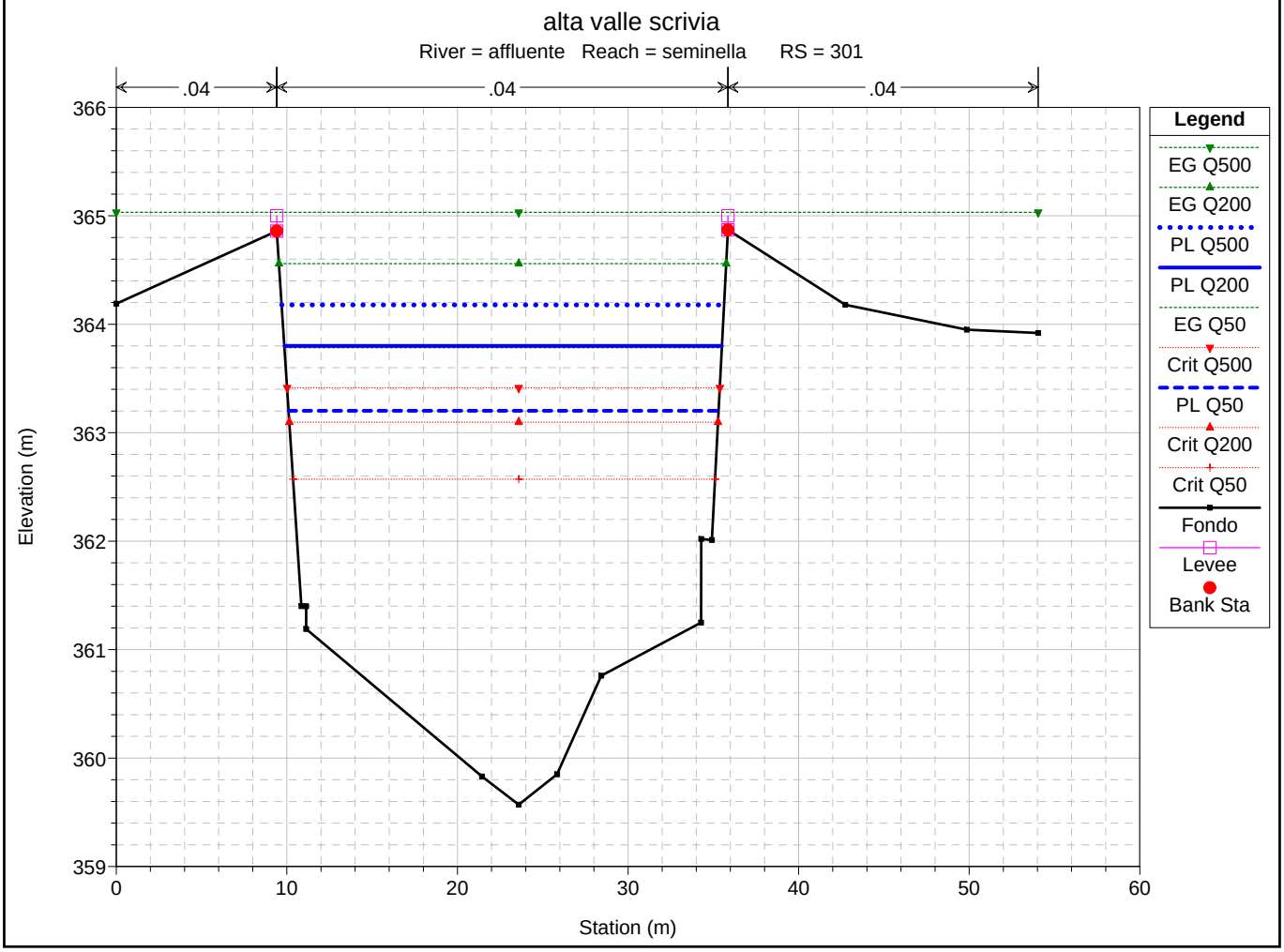

alta valle scrivia
River = affluente Reach = seminella RS = 420
.04
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
372
371
370
369
368
367
0
10
20
30
40
50
60

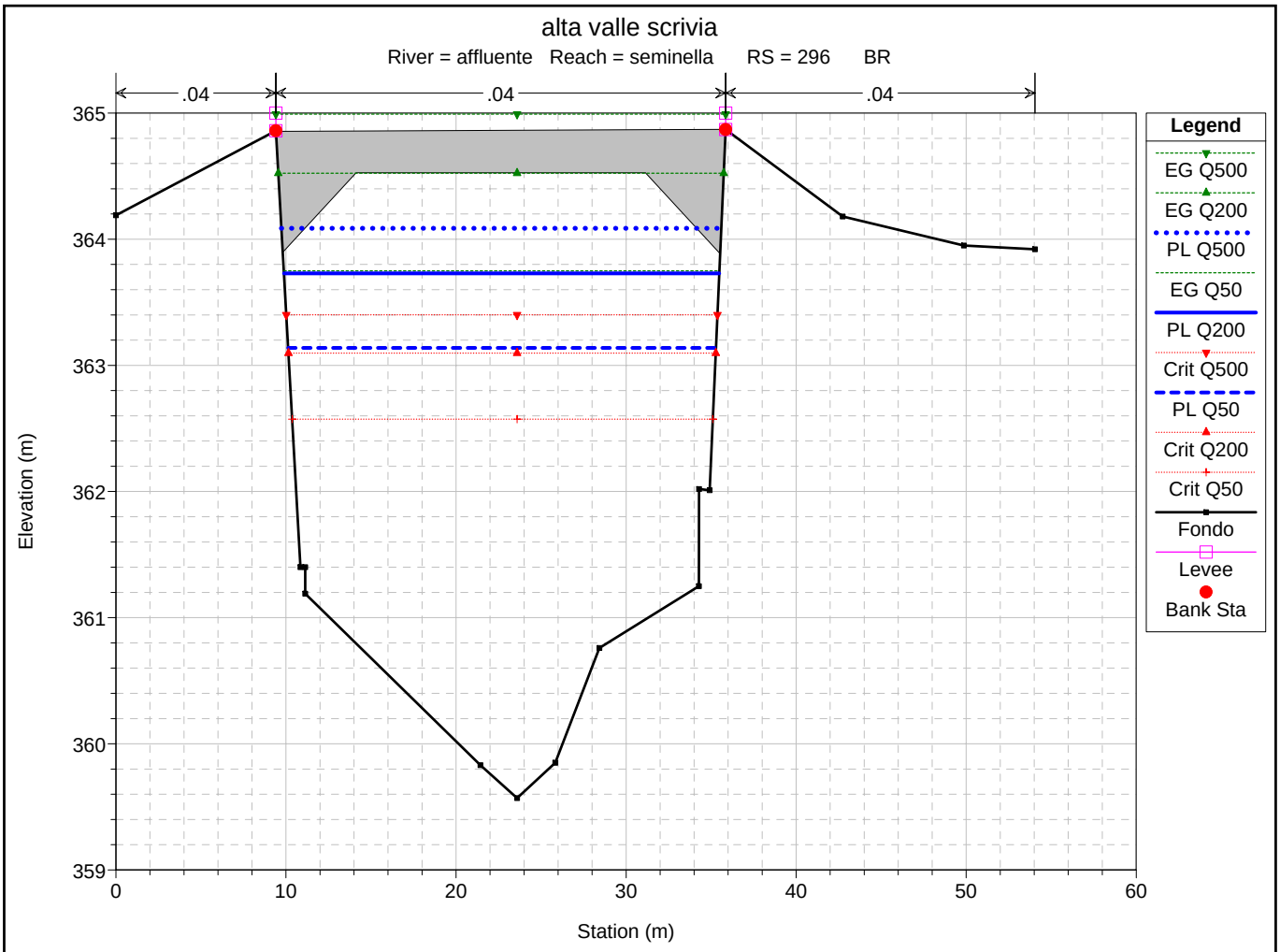

alta valle scrivia
River = affluente Reach = seminella RS = 310
.04
.04
.04
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
372
371
370
369
368
367
366
365
0
20
40
60
80
100
120
140

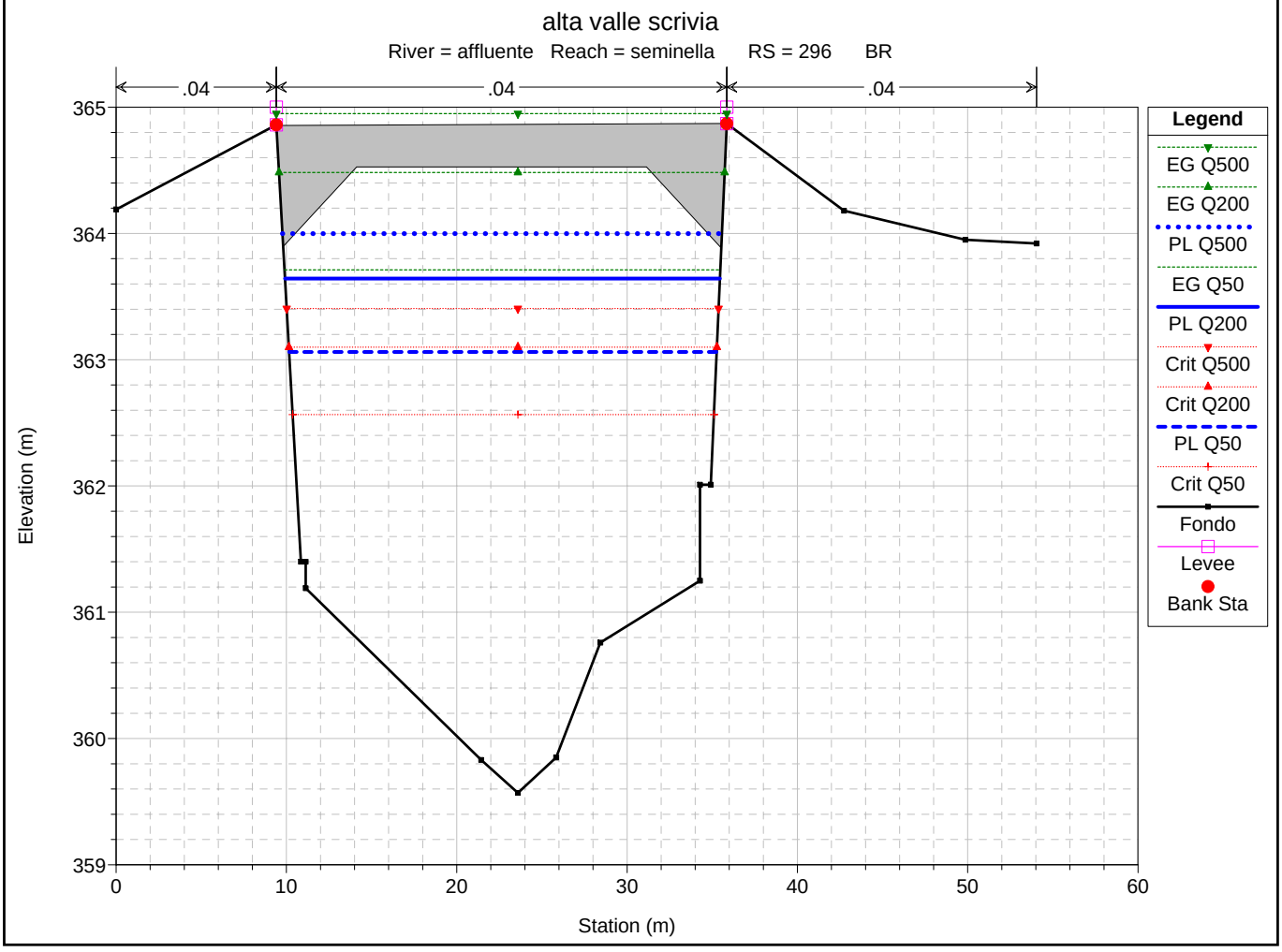

alta valle scrivia
River = affluente Reach = seminella RS = 308 BR
.04
.04
.04
Elevation (m)
Station (m)
372
371
370
369
368
367
366
365
0
20
40
60
80
100
120
140
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q50
PL Q200
Crit Q200
Crit Q50
Fondo
Bank Sta

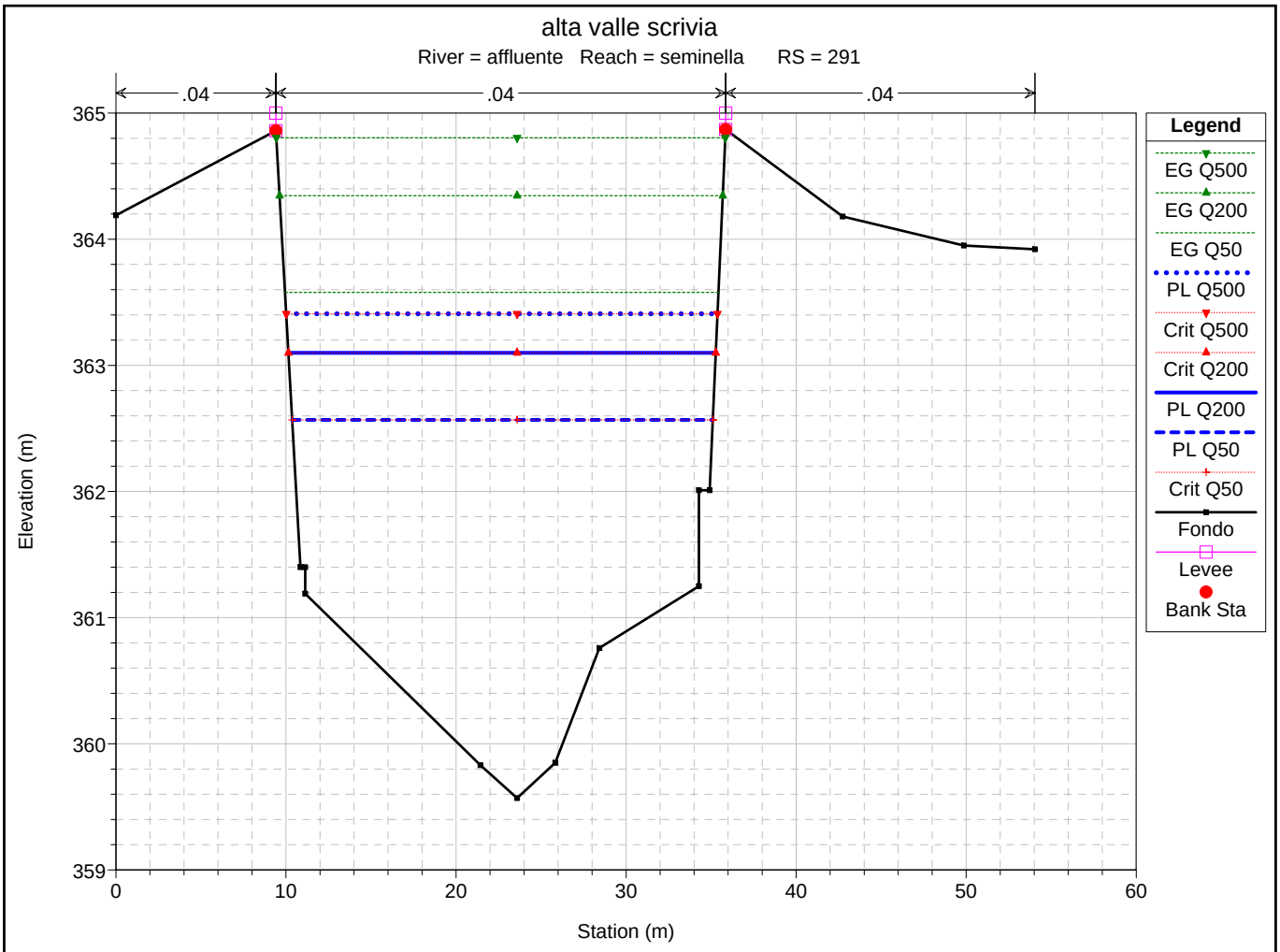

alta valle scrivia
River = affluente Reach = seminella RS = 308 BR
.04
.04
.04
Elevation (m)
Station (m)
372
371
370
369
368
367
366
365
0
20
40
60
80
100
120
140
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

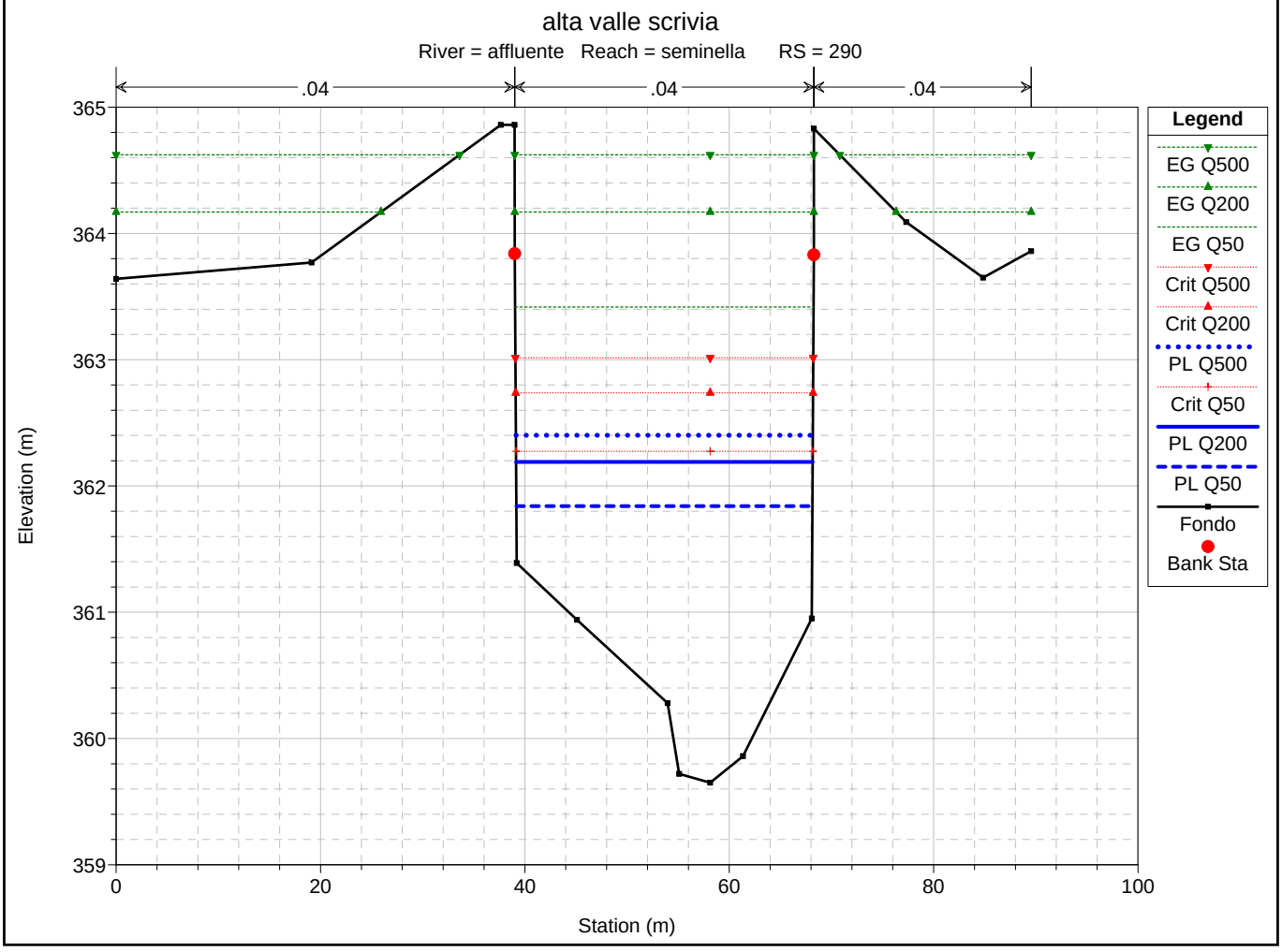

alta valle scrivia
River = affluente Reach = seminella RS = 305
.04
.04
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
372
371
370
369
368
367
366
365
0
20
40
60
80
100
120
140

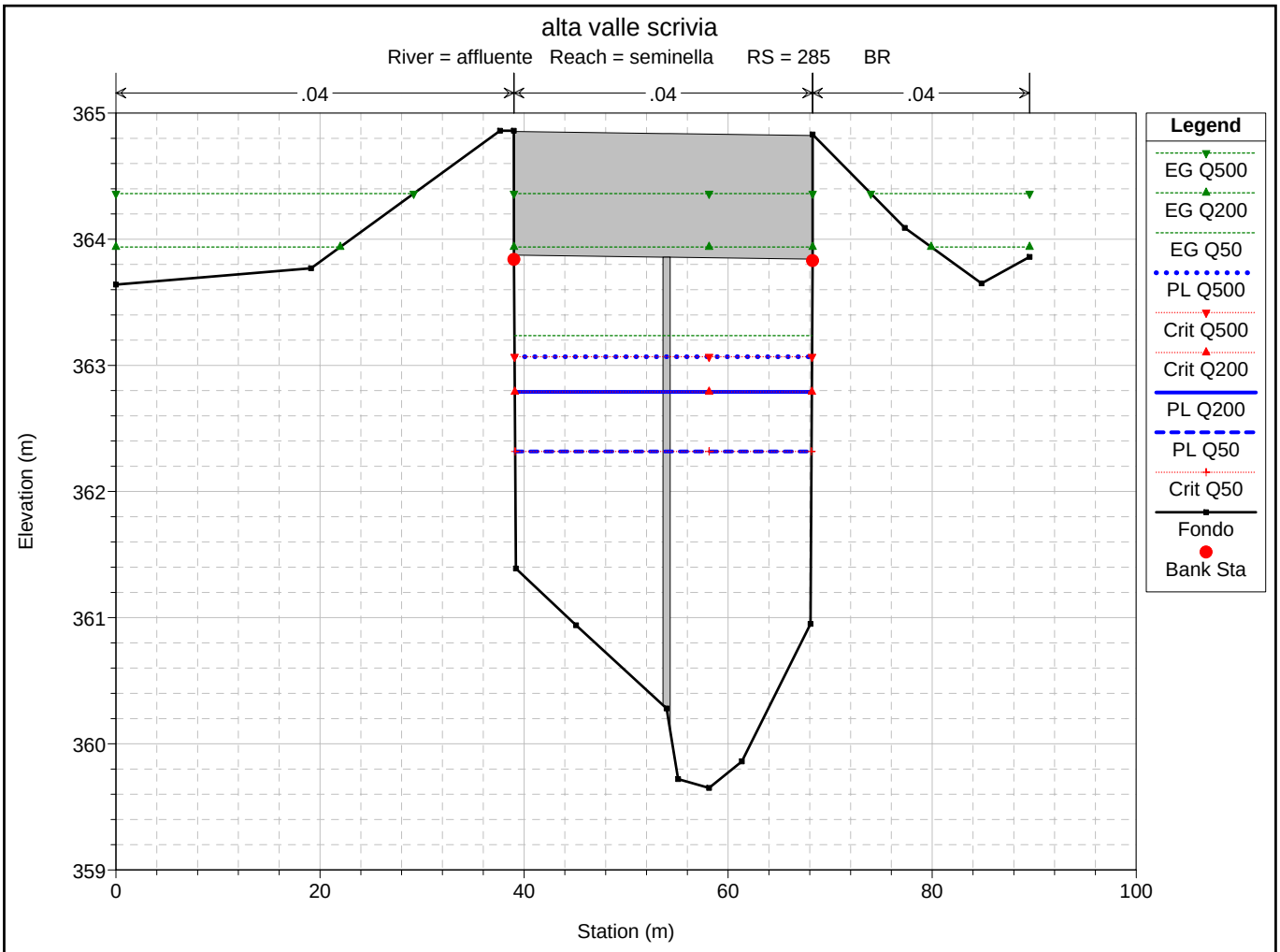

alta valle scrivia
River = affluente Reach = seminella RS = 301
.04
.04
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta
Elevation (m)
Station (m)
366
365
364
363
362
361
360
359
0
10
20
30
40
50
60

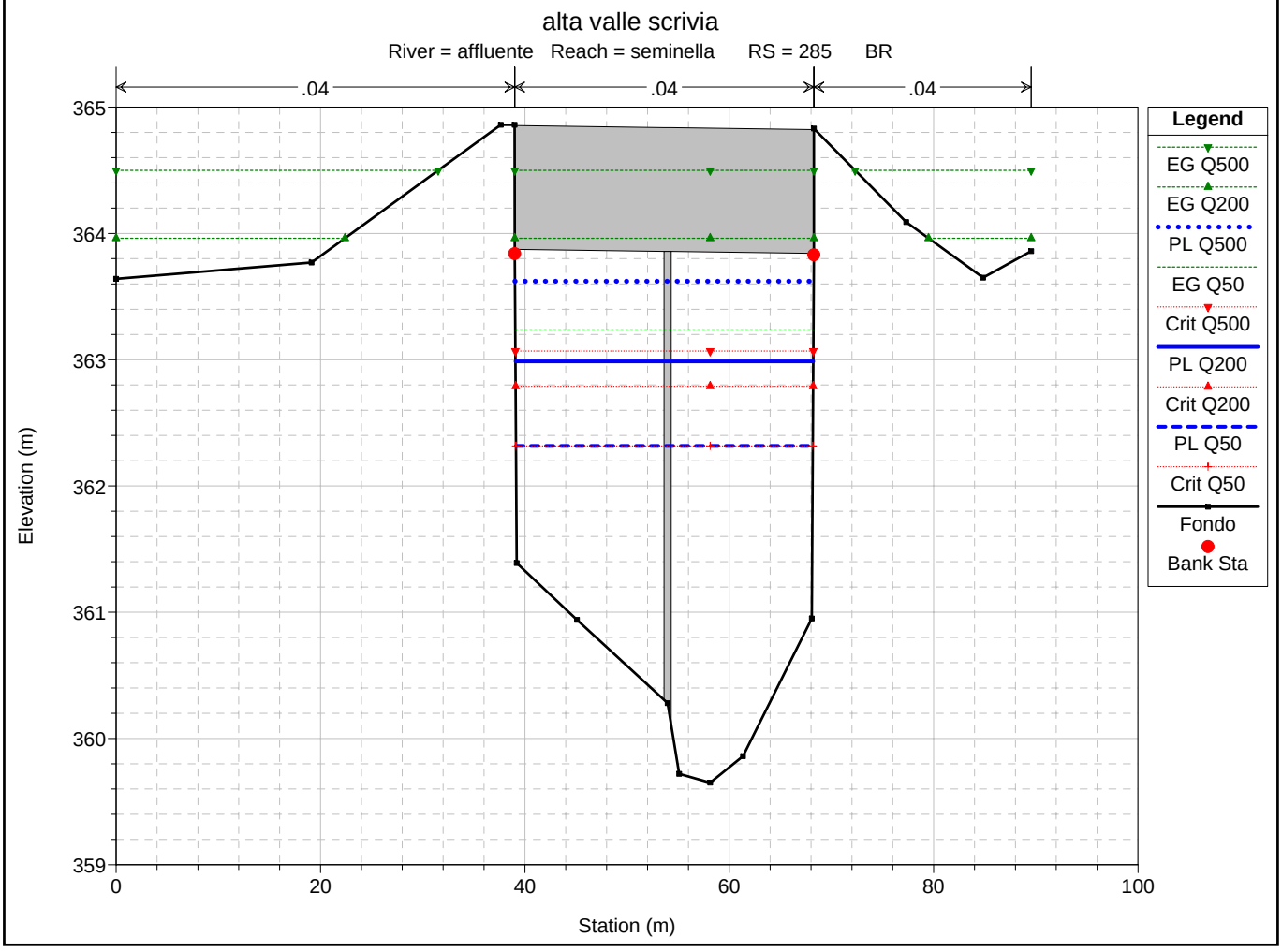

alta valle scrivia
River = affluente Reach = seminella RS = 296 BR
.04
.04
.04
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta
Elevation (m)
Station (m)
365
364
363
362
361
360
359
0
10
20
30
40
50
60

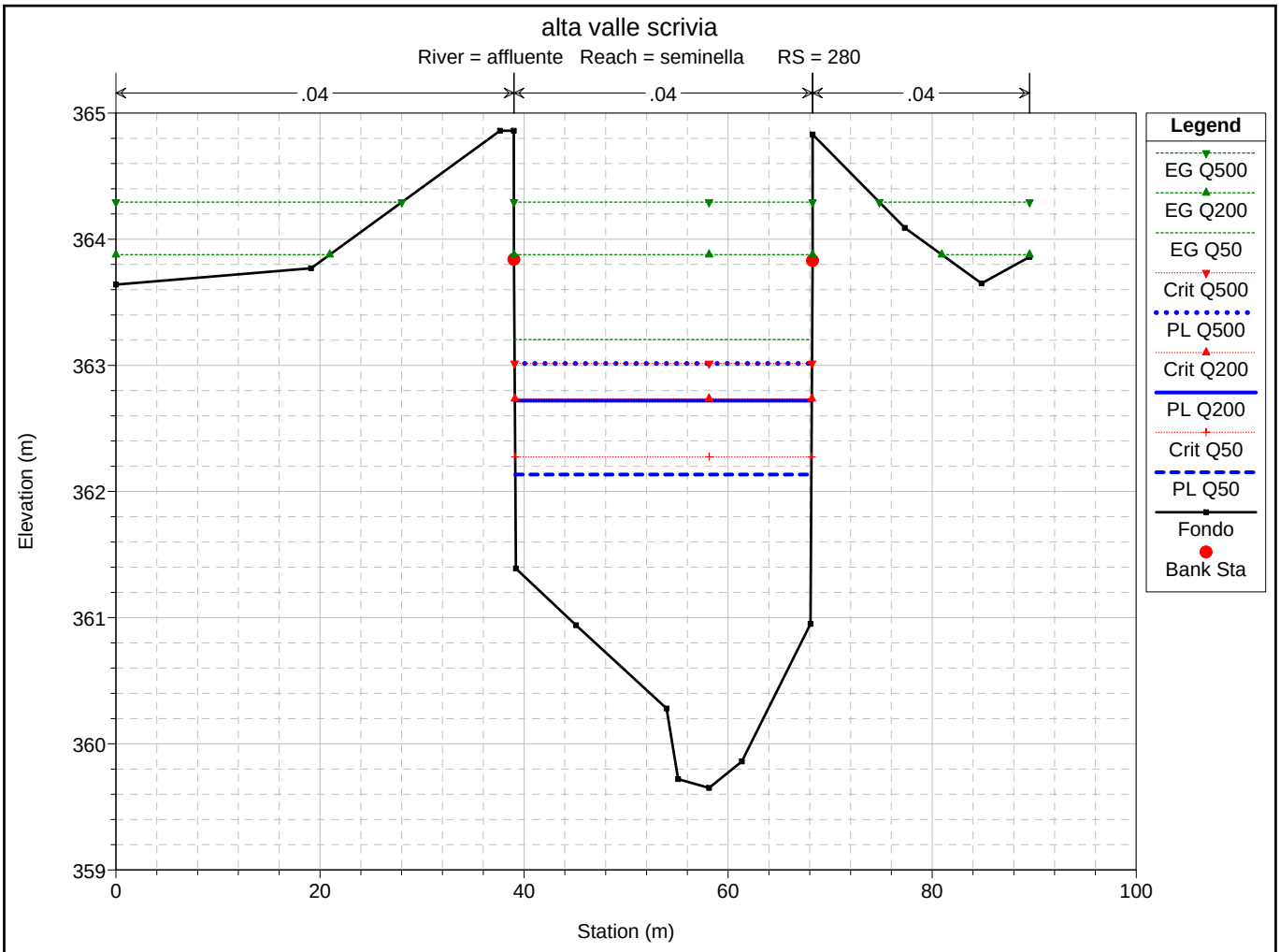

alta valle scrivia
River = affluente Reach = seminella RS = 296 BR
.04
.04
.04
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Levee
Bank Sta
Elevation (m)
Station (m)
365
364
363
362
361
360
359
0
10
20
30
40
50
60

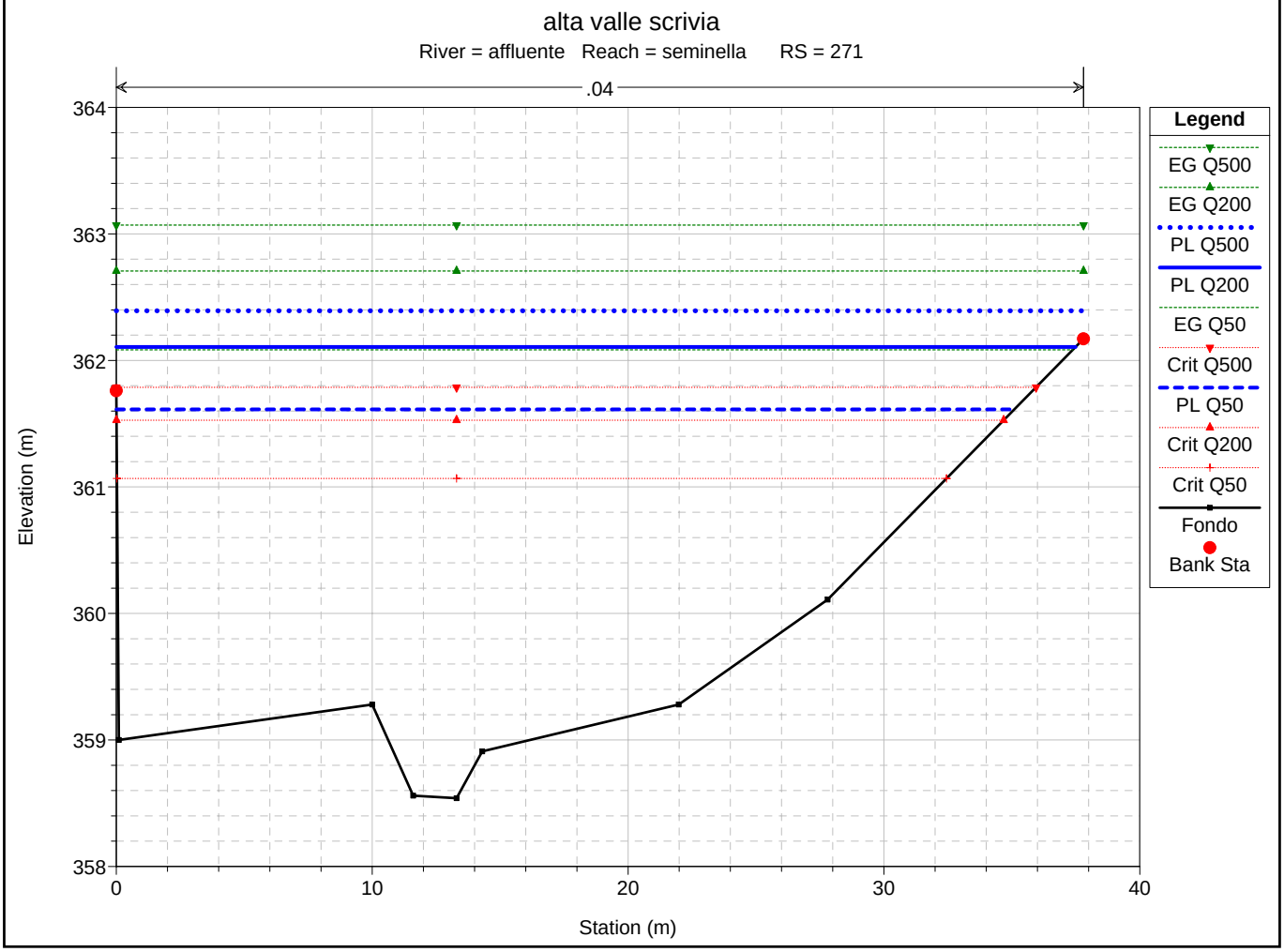

alta valle scrivia
River = affluente Reach = seminella RS = 291
.04
.04
.04
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Levee
Bank Sta
Elevation (m)
Station (m)
365
364
363
362
361
360
359
0
10
20
30
40
50
60

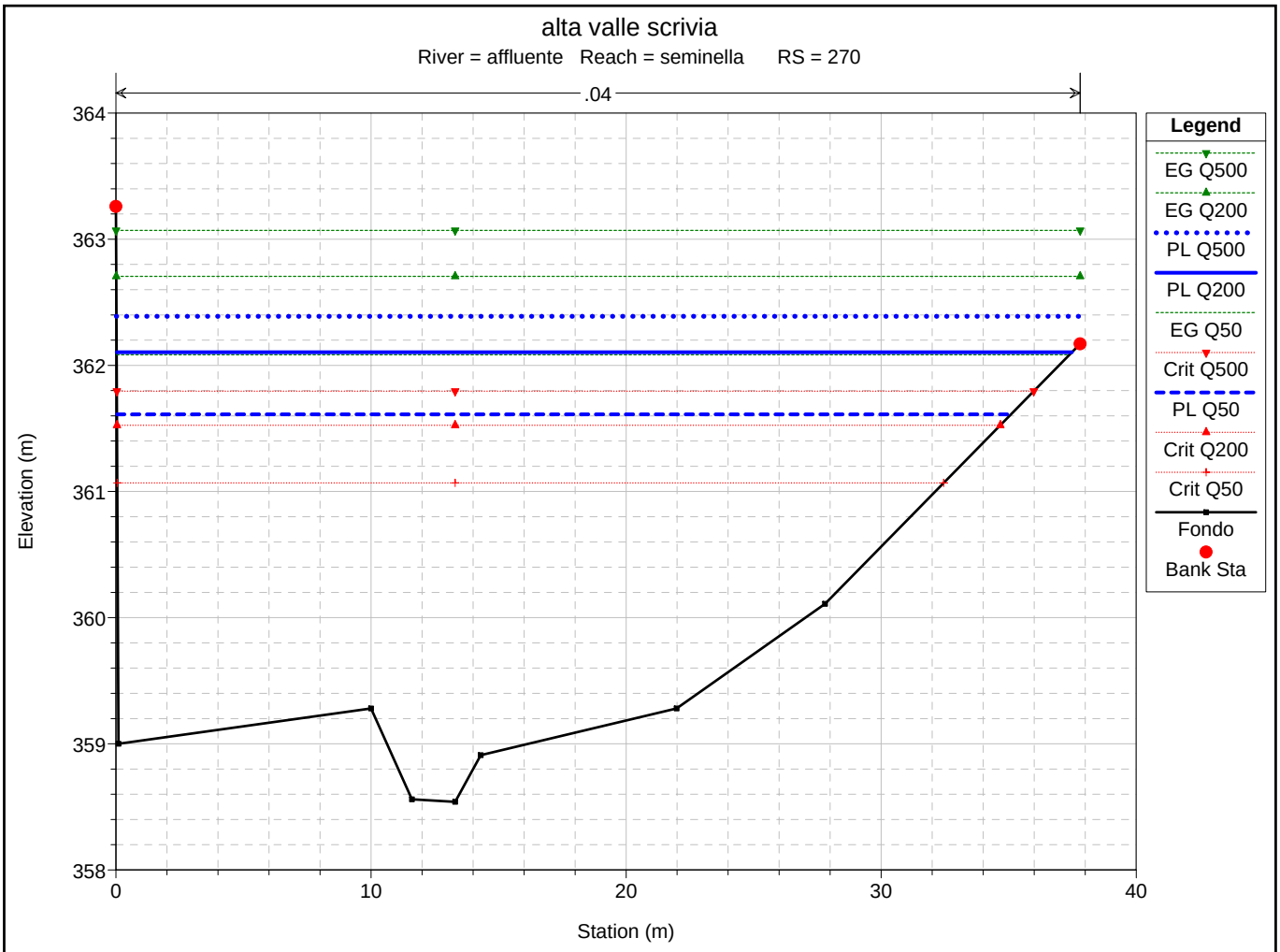

alta valle scrivia
River = affluente Reach = seminella RS = 290
.04
.04
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
365
364
363
362
361
360
359
0
20
40
60
80
100

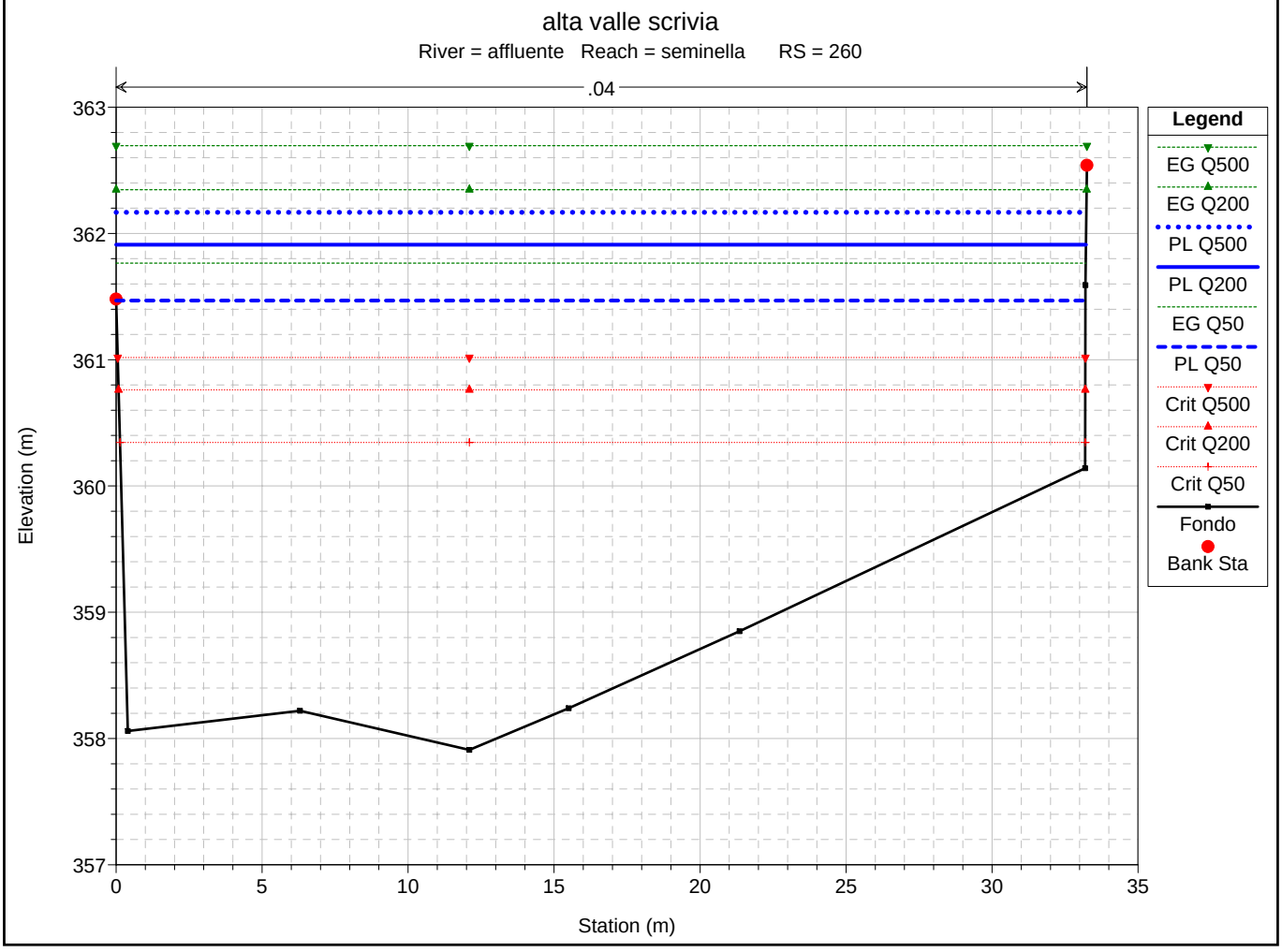

alta valle scrivia
River = affluente Reach = seminella RS = 285 BR
.04
.04
.04
Elevation (m)
365
364
363
362
361
360
359
0
20
40
60
80
100
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = affluente Reach = seminella RS = 285 BR
.04
.04
.04
Elevation (m)
365
364
363
362
361
360
359
0
20
40
60
80
100
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = affluente Reach = seminella RS = 280
.04
.04
.04
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
365
364
363
362
361
360
359
0
20
40
60
80
100


alta valle scrivia
River = affluente Reach = seminella RS = 271
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
364
363
362
361
360
359
358
0
10
20
30
40


alta valle scrivia
River = affluente Reach = seminella RS = 270
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


alta valle scrivia
River = affluente Reach = seminella RS = 260
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

HEC-RAS Plan: 02_Rev B River: affluente Reach: seminella

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
seminella	560	Q50	222.00	380.94	384.27	384.94	0.67	385.84	1.57	384.28	385.59	0.014632	5.08	43.67	16.72	1.00
seminella	560	Q200	312.00	380.94	384.97	384.94	-0.03	385.84	0.87	384.97	386.57	0.014483	5.61	55.64	17.60	1.01
seminella	560	Q500	371.00	380.94	385.37	384.94	-0.43	385.84	0.47	385.37	387.15	0.014483	5.93	62.62	17.60	1.00
seminella	550	Q50	222.00	380.54	383.17	383.74	0.57	383.44	0.27	383.50	384.76	0.022675	5.59	39.69	19.02	1.24
seminella	550	Q200	312.00	380.54	383.65	383.74	0.09	383.44	-0.21	384.12	385.70	0.024291	6.35	49.14	20.15	1.30
seminella	550	Q500	371.00	380.54	383.92	383.74	-0.18	383.44	-0.48	384.47	386.26	0.024937	6.78	54.72	20.36	1.32
seminella	540	Q50	222.00	380.24	382.60	383.54	0.94	383.44	0.84	383.01	384.22	0.026346	5.64	39.37	22.47	1.36
seminella	540	Q200	312.00	380.24	382.99	383.54	0.55	383.44	0.45	383.57	385.12	0.028225	6.47	48.24	23.20	1.43
seminella	540	Q500	371.00	380.24	383.22	383.54	0.32	383.44	0.22	383.89	385.66	0.029232	6.93	53.56	23.63	1.47
seminella	530	Q50	222.00	380.24	382.40	383.54	1.14	383.44	1.04	382.92	384.16	0.034276	5.88	37.78	25.65	1.55
seminella	530	Q200	312.00	380.24	382.72	383.54	0.82	383.44	0.72	383.43	385.05	0.037055	6.76	46.13	26.75	1.64
seminella	530	Q500	371.00	380.24	382.91	383.54	0.63	383.44	0.53	383.72	385.59	0.038479	7.25	51.14	27.40	1.69
seminella	520	Q50	222.00	379.94	382.10	383.54	1.44	383.84	1.74	382.47	383.52	0.027834	5.27	42.10	28.42	1.38
seminella	520	Q200	312.00	379.94	382.39	383.54	1.15	383.84	1.45	382.95	384.35	0.031414	6.20	50.35	29.03	1.50
seminella	520	Q500	371.00	379.94	382.56	383.54	0.98	383.84	1.28	383.23	384.84	0.032917	6.69	55.46	29.40	1.55
seminella	510.1	Q50	222.00	380.04	382.03	383.37	1.34	383.60	1.57	382.03	382.92	0.013909	4.18	53.17	30.25	1.01
seminella	510.1	Q200	312.00	380.04	382.51	383.37	0.86	383.60	1.09	382.51	383.58	0.013163	4.59	67.96	31.94	1.00
seminella	510.1	Q500	371.00	380.04	382.79	383.37	0.58	383.60	0.81	382.79	383.97	0.012693	4.80	77.32	32.97	1.00
seminella	510	Q50	222.00	377.97	379.35	383.37	4.02	383.60	4.25	380.30	382.67	0.087727	8.07	27.50	23.21	2.37
seminella	510	Q200	312.00	377.97	379.77	383.37	3.60	383.60	3.83	380.82	383.33	0.067808	8.36	37.32	24.34	2.16
seminella	510	Q500	371.00	377.97	380.02	383.37	3.35	383.60	3.58	381.14	383.71	0.060109	8.52	43.56	25.10	2.06
seminella	500	Q50	222.00	376.59	379.89	382.67	2.78	382.11	2.22	379.89	380.93	0.014286	4.52	49.11	23.74	1.00
seminella	500	Q200	312.00	376.59	380.42	382.67	2.25	382.11	1.69	380.42	381.71	0.014062	5.04	61.88	24.30	1.01
seminella	500	Q500	371.00	376.59	380.74	382.67	1.93	382.11	1.37	380.74	382.18	0.013808	5.33	69.66	24.30	1.00
seminella	490	Q50	222.00	375.97	378.50	381.70	3.20	378.31	-0.19	378.83	379.87	0.023842	5.19	42.78	25.64	1.28
seminella	490	Q200	312.00	375.97	378.91	381.70	2.79	378.31	-0.60	379.32	380.63	0.025137	5.81	53.68	27.99	1.34
seminella	490	Q500	371.00	375.97	379.12	381.70	2.58	378.31	-0.81	379.59	381.09	0.025799	6.22	59.63	28.30	1.37
seminella	480	Q50	222.00	375.12	377.82	380.13	2.31	378.31	0.49	377.83	378.76	0.014479	4.28	51.85	28.27	1.01
seminella	480	Q200	312.00	375.12	378.29	380.13	1.84	378.31	0.02	378.29	379.46	0.013928	4.79	65.12	28.27	1.01
seminella	480	Q500	371.00	375.12	378.58	380.13	1.55	378.31	-0.27	378.58	379.89	0.013592	5.06	73.32	28.27	1.00
seminella	470	Q50	222.00	373.85	377.26	378.52	1.26	378.76	1.50	376.59	377.74	0.005245	3.09	71.74	29.48	0.63
seminella	470	Q200	312.00	373.85	377.77	378.52	0.75	378.76	0.99	377.06	378.42	0.005752	3.59	86.91	30.02	0.67
seminella	470	Q500	371.00	373.85	378.06	378.52	0.46	378.76	0.70	377.35	378.83	0.006048	3.87	95.80	30.34	0.70
seminella	460.1	Q50	222.00	373.81	375.70	378.11	2.41	377.97	2.27	375.70	376.54	0.014317	4.05	54.88	32.93	1.00
seminella	460.1	Q200	312.00	373.81	376.14	378.11	1.97	377.97	1.83	376.14	377.17	0.013590	4.50	69.37	33.67	1.00
seminella	460.1	Q500	371.00	373.81	376.40	378.11	1.71	377.97	1.57	376.40	377.55	0.013262	4.74	78.19	34.11	1.00

HEC-RAS Plan: 02_Rev B River: affluente Reach: seminella (Continued)

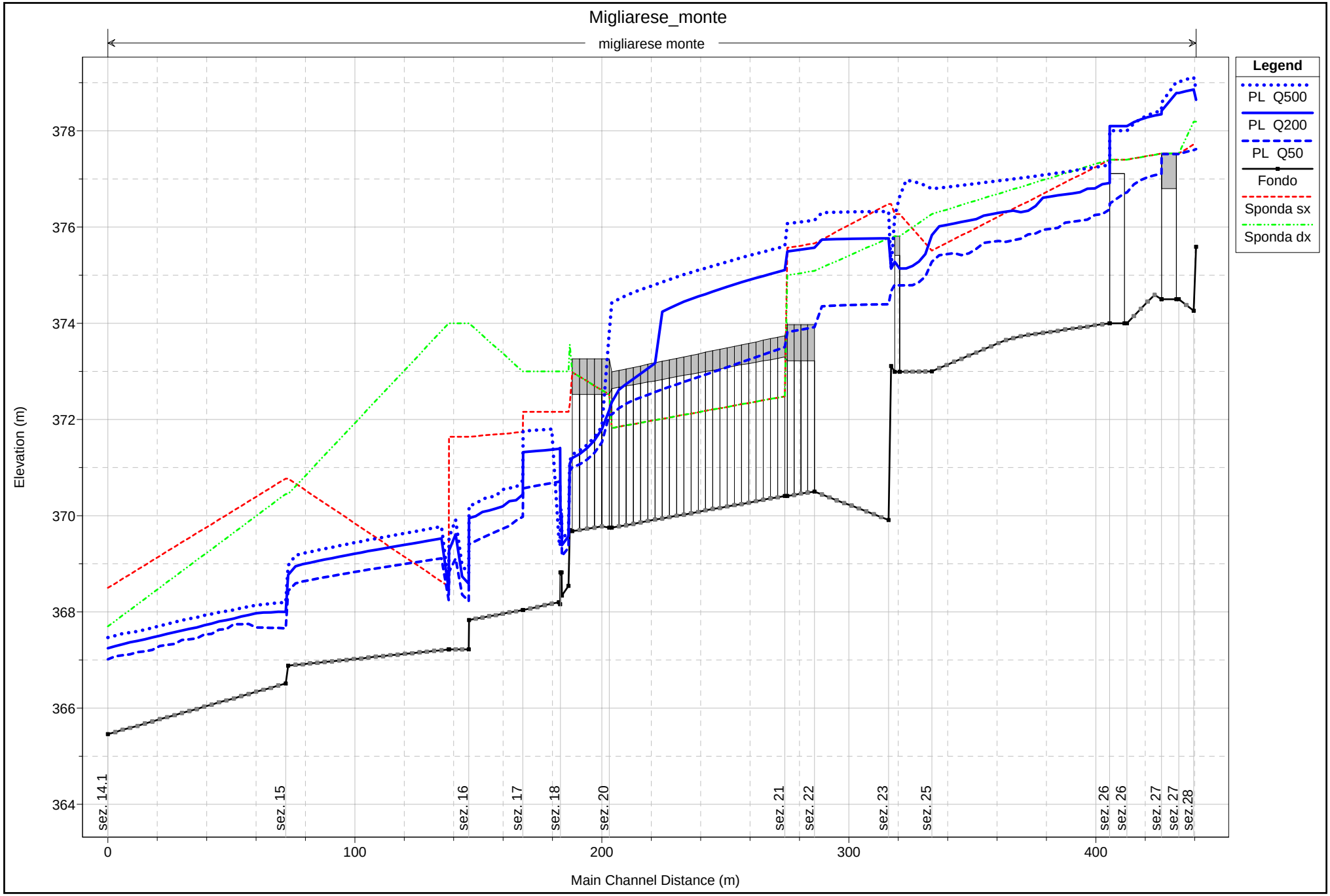
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
seminella	460	Q50	222.00	372.15	373.10	378.11	5.01	377.97	4.87	373.93	376.30	0.121294	7.92	28.04	31.06	2.66
seminella	460	Q200	312.00	372.15	373.41	378.11	4.70	377.97	4.56	374.38	376.92	0.093104	8.30	37.59	31.42	2.42
seminella	460	Q500	371.00	372.15	373.60	378.11	4.51	377.97	4.37	374.64	377.29	0.081950	8.51	43.59	31.65	2.32
seminella	450.1	Q50	222.00	372.17	374.19	376.92	2.73	376.89	2.70	374.19	374.98	0.013947	3.92	56.65	36.22	1.00
seminella	450.1	Q200	312.00	372.17	374.60	376.92	2.32	376.89	2.29	374.60	375.57	0.013178	4.36	71.56	36.86	1.00
seminella	450.1	Q500	371.00	372.17	374.84	376.92	2.08	376.89	2.05	374.84	375.92	0.012904	4.61	80.47	37.24	1.00
seminella	450	Q50	222.00	371.09	372.44	376.92	4.48	376.89	4.45	373.11	374.81	0.084788	6.83	32.52	34.78	2.25
seminella	450	Q200	312.00	371.09	372.75	376.92	4.17	376.89	4.14	373.52	375.40	0.066707	7.21	43.25	35.17	2.08
seminella	450	Q500	371.00	371.09	372.94	376.92	3.98	376.89	3.95	373.77	375.75	0.059487	7.43	49.93	35.42	2.00
seminella	440.1	Q50	222.00	370.73	372.82	375.75	2.93	375.38	2.56	372.82	373.65	0.013728	4.04	55.00	33.31	1.00
seminella	440.1	Q200	312.00	370.73	373.27	375.75	2.48	375.38	2.11	373.27	374.27	0.012900	4.43	70.37	35.17	1.00
seminella	440.1	Q500	371.00	370.73	373.53	375.75	2.22	375.38	1.85	373.53	374.63	0.012530	4.65	79.82	36.27	1.00
seminella	440	Q50	222.00	369.80	371.00	375.75	4.75	375.38	4.38	371.73	373.48	0.070906	6.98	31.80	29.04	2.13
seminella	440	Q200	312.00	369.80	371.36	375.75	4.39	375.38	4.02	372.19	374.10	0.056981	7.33	42.59	30.57	1.98
seminella	440	Q500	371.00	369.80	371.58	375.75	4.17	375.38	3.80	372.46	374.45	0.050989	7.51	49.40	31.33	1.91
seminella	430	Q50	222.00	368.78	370.78	372.20	1.42	370.13	-0.65	370.49	371.21	0.007798	2.92	76.15	49.03	0.75
seminella	430	Q200	312.00	368.78	371.10	372.20	1.10	370.13	-0.97	370.83	371.69	0.008493	3.40	91.71	49.56	0.80
seminella	430	Q500	371.00	368.78	371.27	372.20	0.93	370.13	-1.14	371.03	371.97	0.008977	3.69	100.48	49.85	0.83
seminella	420	Q50	222.00	367.14	369.68	371.85	2.17	369.83	0.15	369.68	370.28	0.015007	3.44	64.56	53.89	1.00
seminella	420	Q200	312.00	367.14	369.99	371.85	1.86	369.83	-0.16	369.99	370.73	0.014350	3.80	82.01	56.64	1.01
seminella	420	Q500	371.00	367.14	370.17	371.85	1.68	369.83	-0.34	370.17	370.99	0.013910	4.03	92.17	56.91	1.01
seminella	310	Q50	222.00	365.50	367.88	370.62	2.74	369.62	1.74	367.33	368.13	0.004249	2.21	100.35	61.90	0.55
seminella	310	Q200	312.00	365.50	368.09	370.62	2.53	369.62	1.53	367.63	368.48	0.005589	2.74	113.67	61.98	0.65
seminella	310	Q500	371.00	365.50	368.31	370.62	2.31	369.62	1.31	367.80	368.74	0.005500	2.92	127.08	62.05	0.65
seminella	308		Bridge													
seminella	305	Q50	222.00	365.50	367.33	370.62	3.29	369.62	2.29	367.33	367.90	0.015357	3.33	66.76	59.29	1.00
seminella	305	Q200	312.00	365.50	367.60	370.62	3.02	369.62	2.02	367.63	368.32	0.015606	3.76	83.01	61.80	1.04
seminella	305	Q500	371.00	365.50	367.71	370.62	2.91	369.62	1.91	367.80	368.58	0.017163	4.14	89.63	61.84	1.10
seminella	301	Q50	222.00	359.57	363.20	364.86	1.66	364.87	1.67	362.57	363.78	0.006020	3.38	65.66	25.21	0.67
seminella	301	Q200	312.00	359.57	363.80	364.86	1.06	364.87	1.07	363.10	364.56	0.006288	3.86	80.90	25.65	0.69
seminella	301	Q500	371.00	359.57	364.18	364.86	0.68	364.87	0.69	363.41	365.03	0.006306	4.09	90.65	25.94	0.70
seminella	296		Bridge													
seminella	291	Q50	222.00	359.57	362.57	364.86	2.29	364.87	2.30	362.57	363.58	0.014144	4.45	49.84	24.73	1.00
seminella	291	Q200	312.00	359.57	363.10	364.86	1.76	364.87	1.77	363.10	364.35	0.013462	4.95	63.07	25.13	1.00
seminella	291	Q500	371.00	359.57	363.41	364.86	1.45	364.87	1.46	363.41	364.80	0.013294	5.23	70.89	25.36	1.00

HEC-RAS Plan: 02_Rev B River: affluente Reach: seminella (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
seminella	290	Q50	222.00	359.65	361.84	363.84	2.00	363.83	1.99	362.28	363.42	0.034576	5.56	39.91	28.97	1.51
seminella	290	Q200	312.00	359.65	362.19	363.84	1.65	363.83	1.64	362.74	364.17	0.033094	6.23	50.05	29.02	1.52
seminella	290	Q500	371.00	359.65	362.40	363.84	1.44	363.83	1.43	363.02	364.62	0.032396	6.60	56.19	29.05	1.52
seminella	285		Bridge													
seminella	280	Q50	222.00	359.65	362.14	363.84	1.70	363.83	1.69	362.27	363.20	0.018573	4.58	48.46	29.01	1.13
seminella	280	Q200	312.00	359.65	362.72	363.84	1.12	363.83	1.11	362.74	363.88	0.014136	4.77	65.47	29.10	1.01
seminella	280	Q500	371.00	359.65	363.01	363.84	0.83	363.83	0.82	363.01	364.29	0.013595	5.01	74.03	29.15	1.00
seminella	271	Q50	222.00	358.54	361.61	361.76	0.15	362.17	0.56	361.07	362.08	0.006207	3.04	73.01	35.09	0.67
seminella	271	Q200	312.00	358.54	362.11	361.76	-0.35	362.17	0.06	361.53	362.71	0.006522	3.43	90.89	37.49	0.70
seminella	271	Q500	371.00	358.54	362.39	361.76	-0.63	362.17	-0.22	361.79	363.07	0.006513	3.65	101.69	37.80	0.71
seminella	270	Q50	222.00	358.54	361.61	363.26	1.65	362.17	0.56	361.07	362.08	0.006235	3.05	72.90	35.05	0.67
seminella	270	Q200	312.00	358.54	362.10	363.26	1.16	362.17	0.07	361.53	362.71	0.006556	3.44	90.73	37.45	0.71
seminella	270	Q500	371.00	358.54	362.39	363.26	0.87	362.17	-0.22	361.80	363.07	0.006548	3.65	101.52	37.78	0.71
seminella	260	Q50	222.00	357.91	361.47	361.48	0.01	362.54	1.07	360.35	361.76	0.002827	2.41	92.07	33.20	0.46
seminella	260	Q200	312.00	357.91	361.91	361.48	-0.43	362.54	0.63	360.76	362.35	0.003516	2.92	106.76	33.22	0.52
seminella	260	Q500	371.00	357.91	362.17	361.48	-0.69	362.54	0.37	361.02	362.70	0.003916	3.22	115.28	33.23	0.55

Torrente Migliarese

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


Migliarese_monte
migliarese monte
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
378
376
374
372
370
368
366
364
sez.14.1
sez.15
sez.16
sez.17
sez.18
sez.20
sez.21
sez.22
sez.23
sez.25
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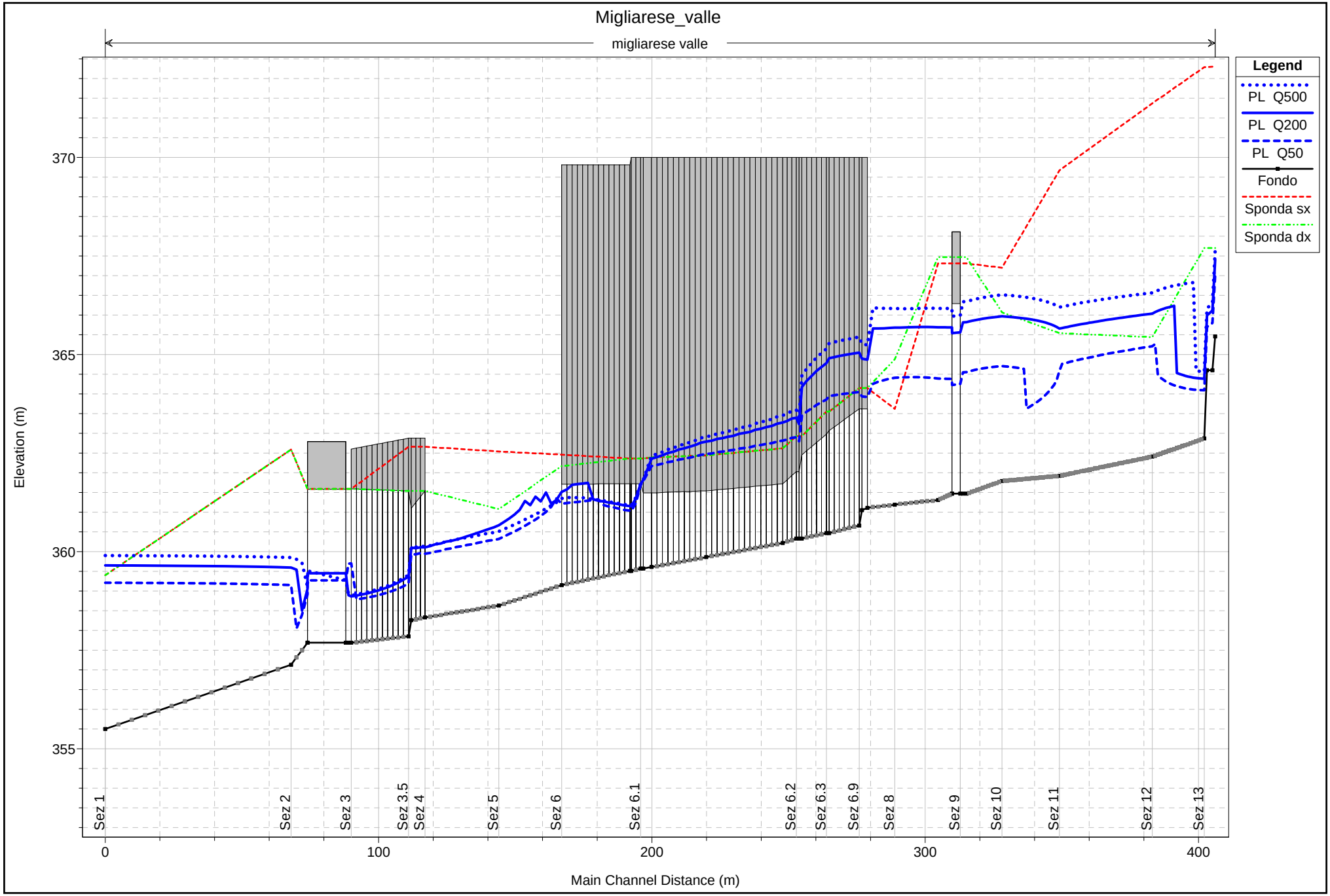
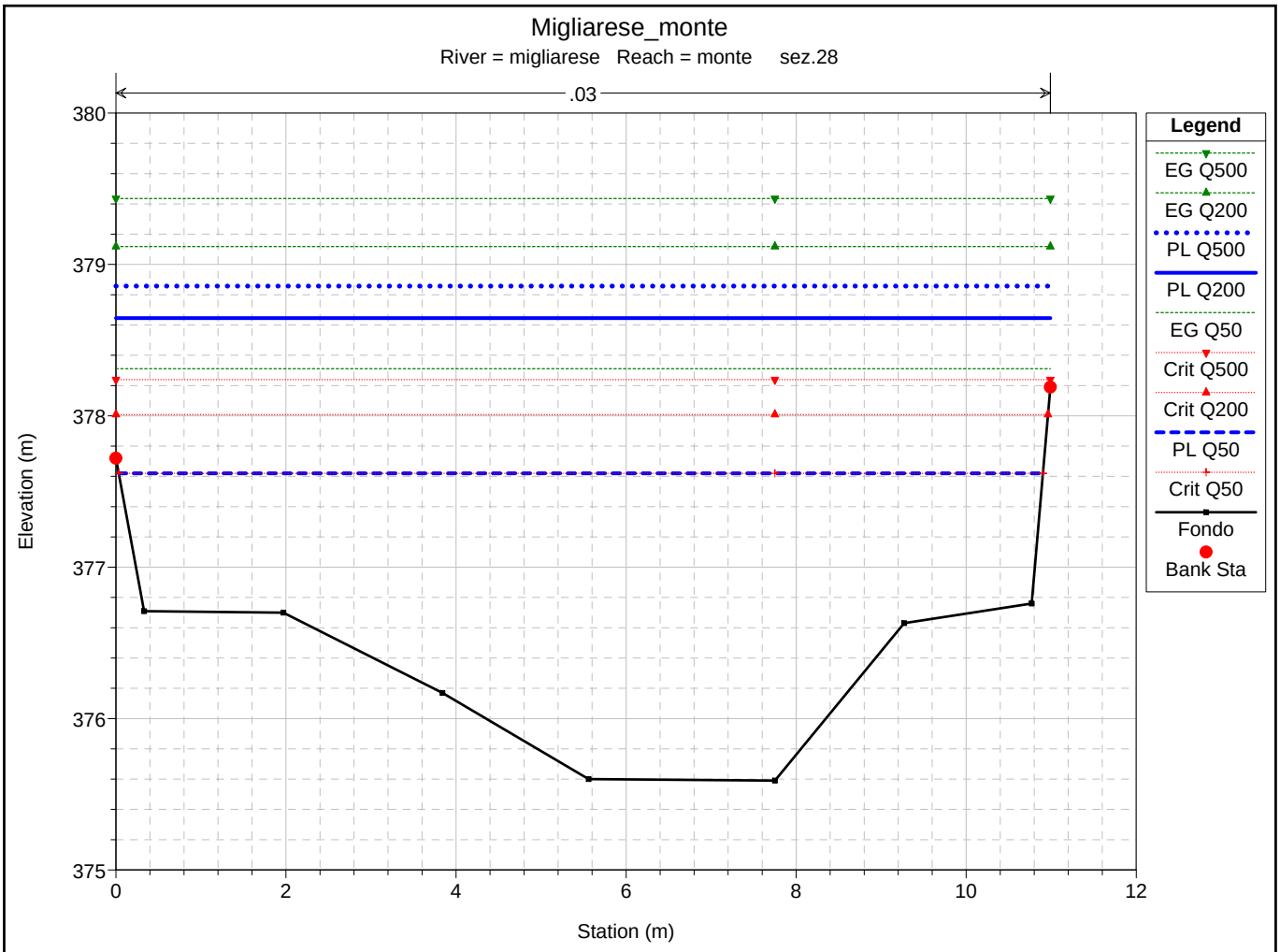
sez.26
sez.27
sez.27
sez.28
0
100
200
300
400
Main Channel Distance (m)


Migliarese_valle
migliarese valle
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
370
365
360
355
0
100
200
300
400
Main Channel Distance (m)
Sez 1
Sez 2
Sez 3
Sez 3.5
Sez 4
Sez 5
Sez 6
Sez 6.1
Sez 6.2
Sez 6.3
Sez 6.9
Sez 8
Sez 9
Sez 10
Sez 11
Sez 12
Sez 13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River = migliarese Reach = monte sez.28
.03
Elevation (m)
Station (m)
Legend
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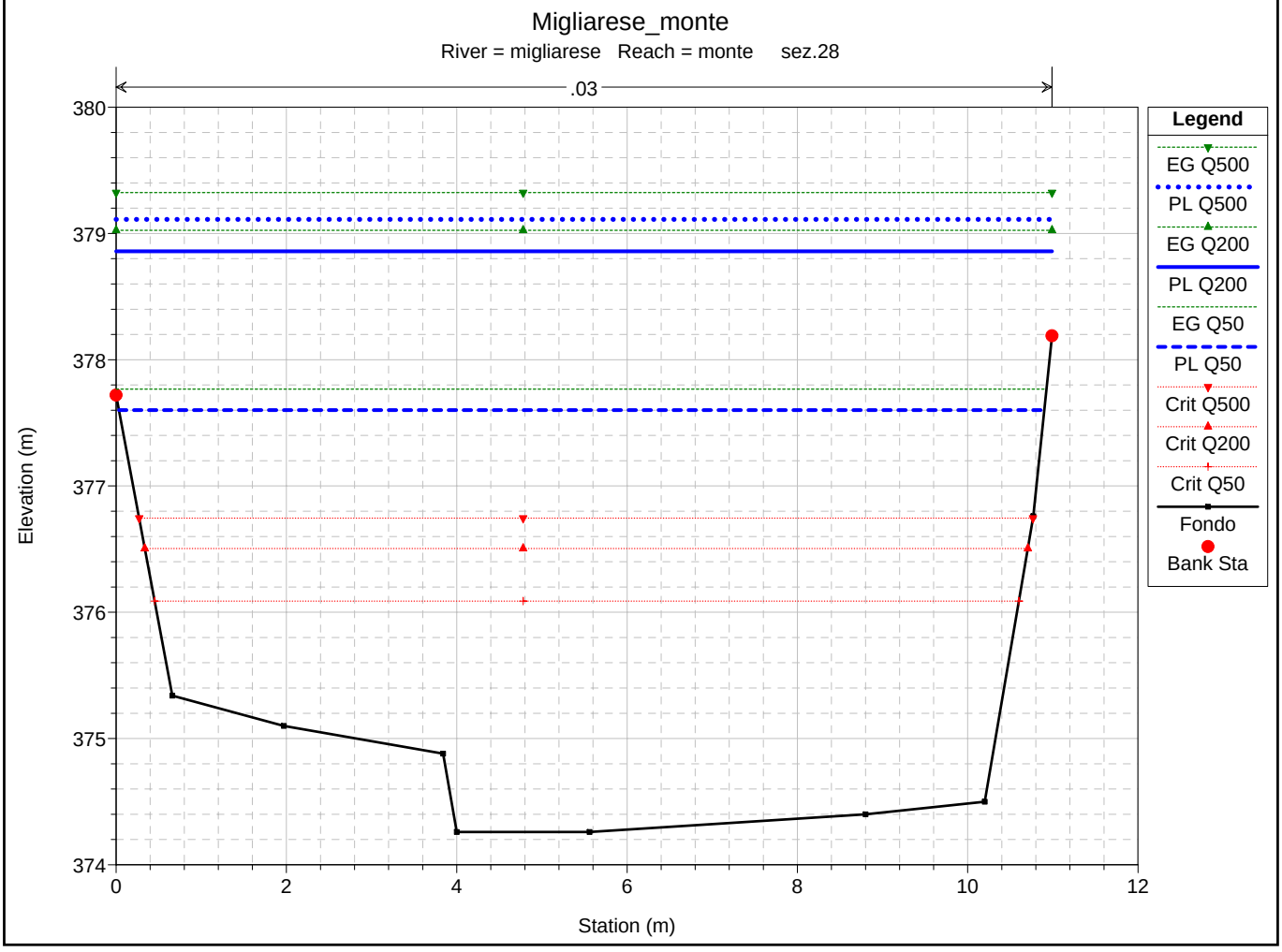
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Migliarese_monte
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Elevation (m)
Station (m)
Legend
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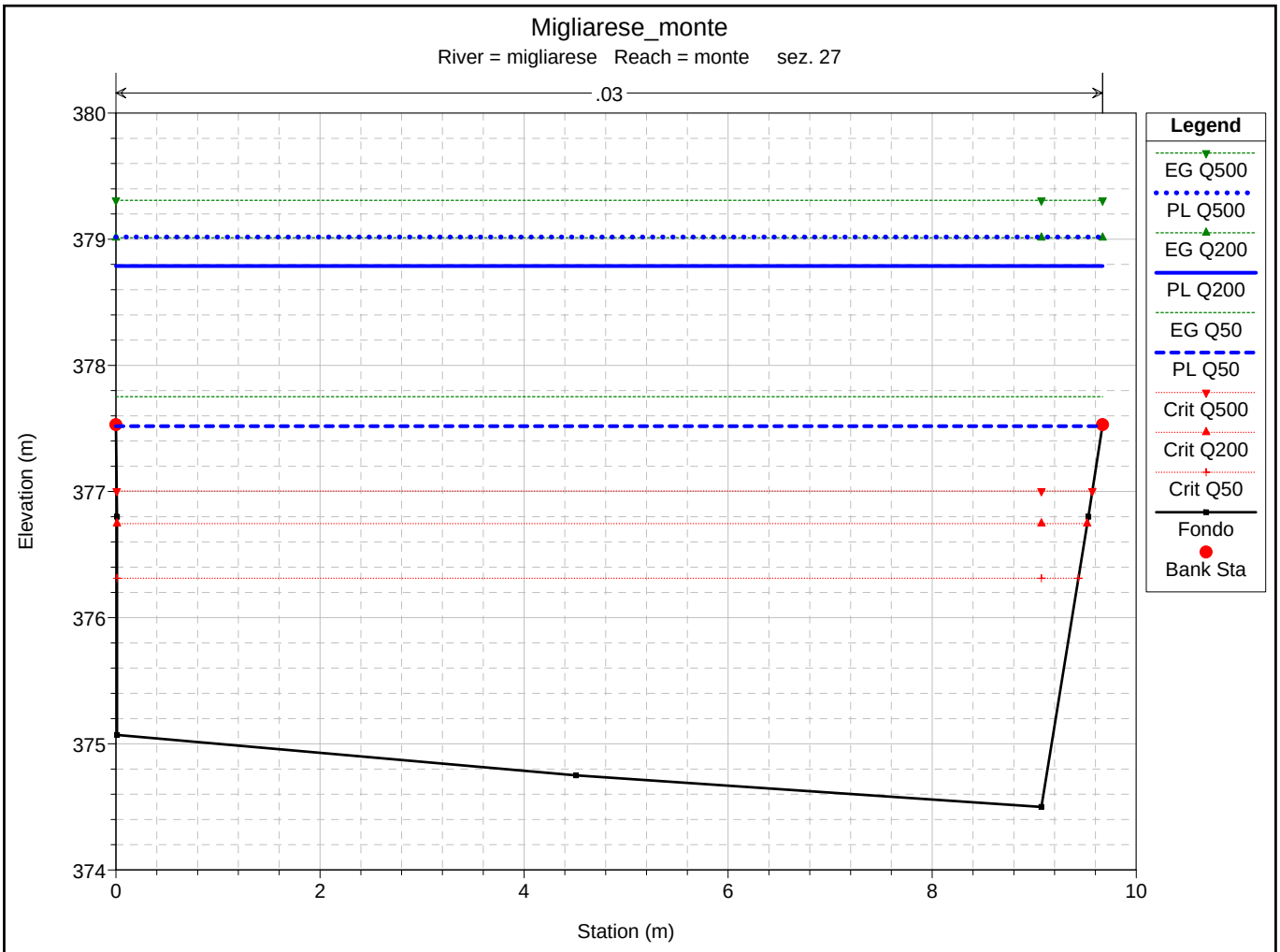
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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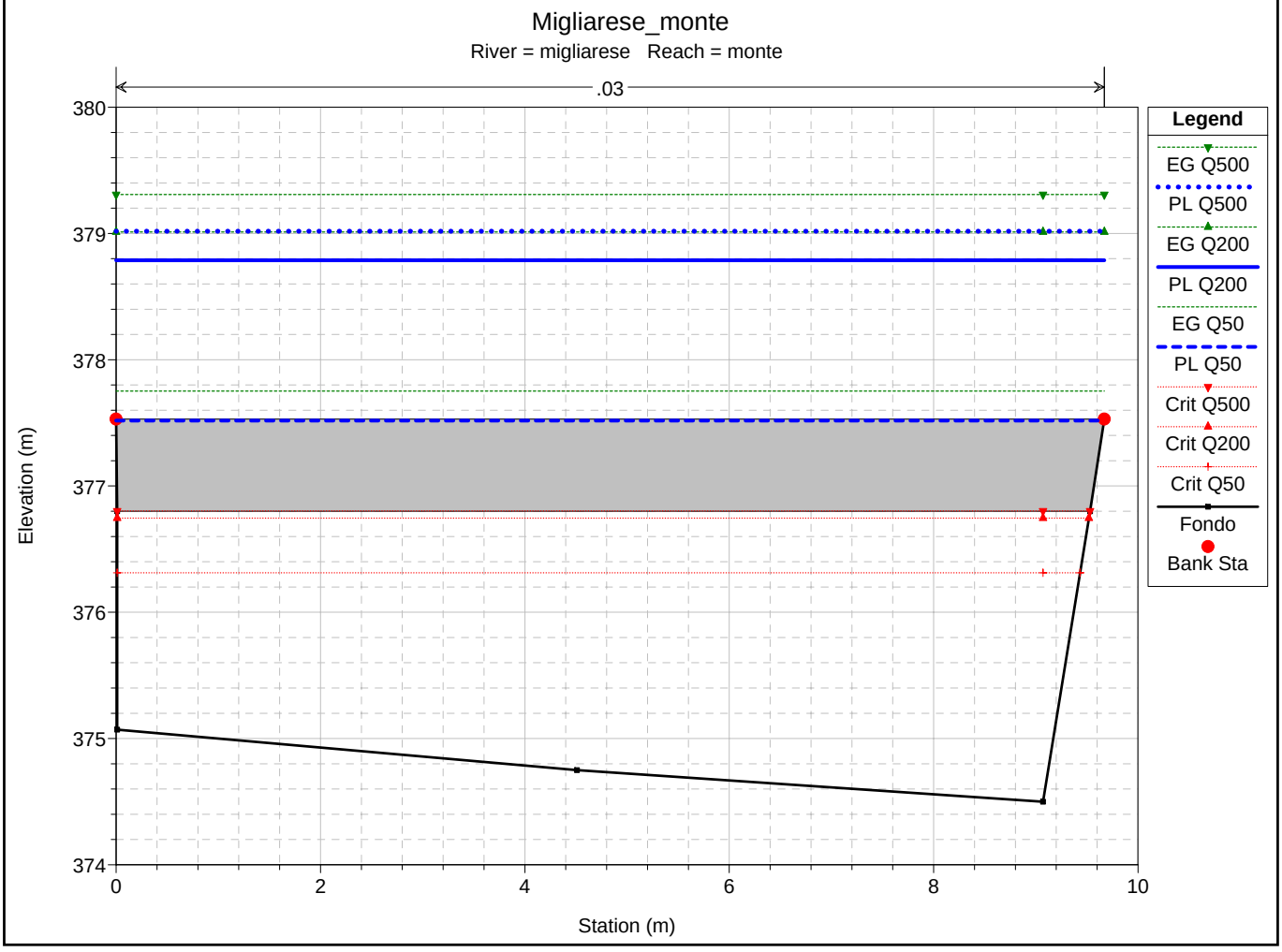
Elevation (m)
380
379
378
377
376
375
374
0
2
4
6
8
10
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


Migliarese_monte
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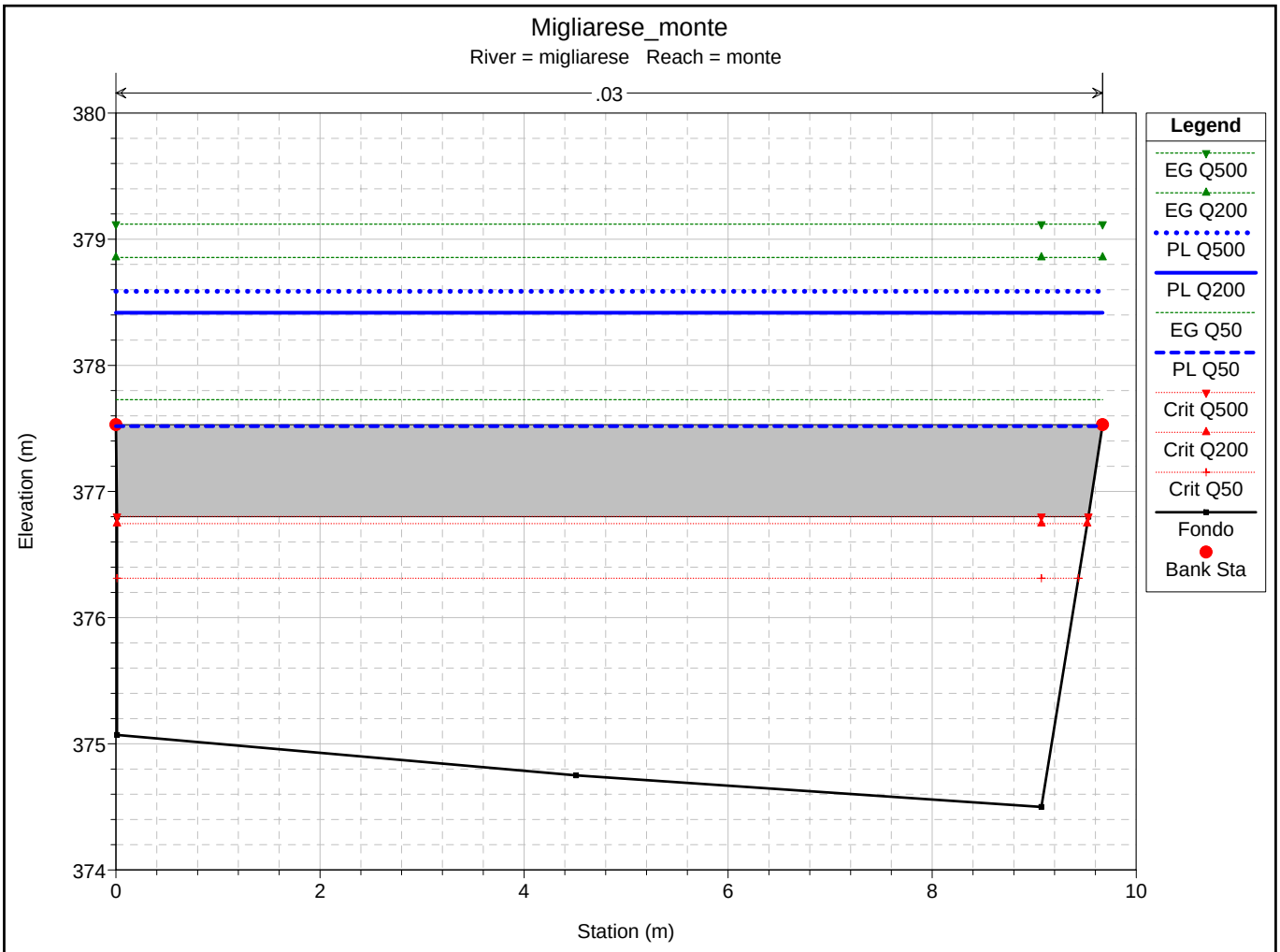
.03
Elevation (m)
380
379
378
377
376
375
374
0
2
4
6
8
10
Station (m)
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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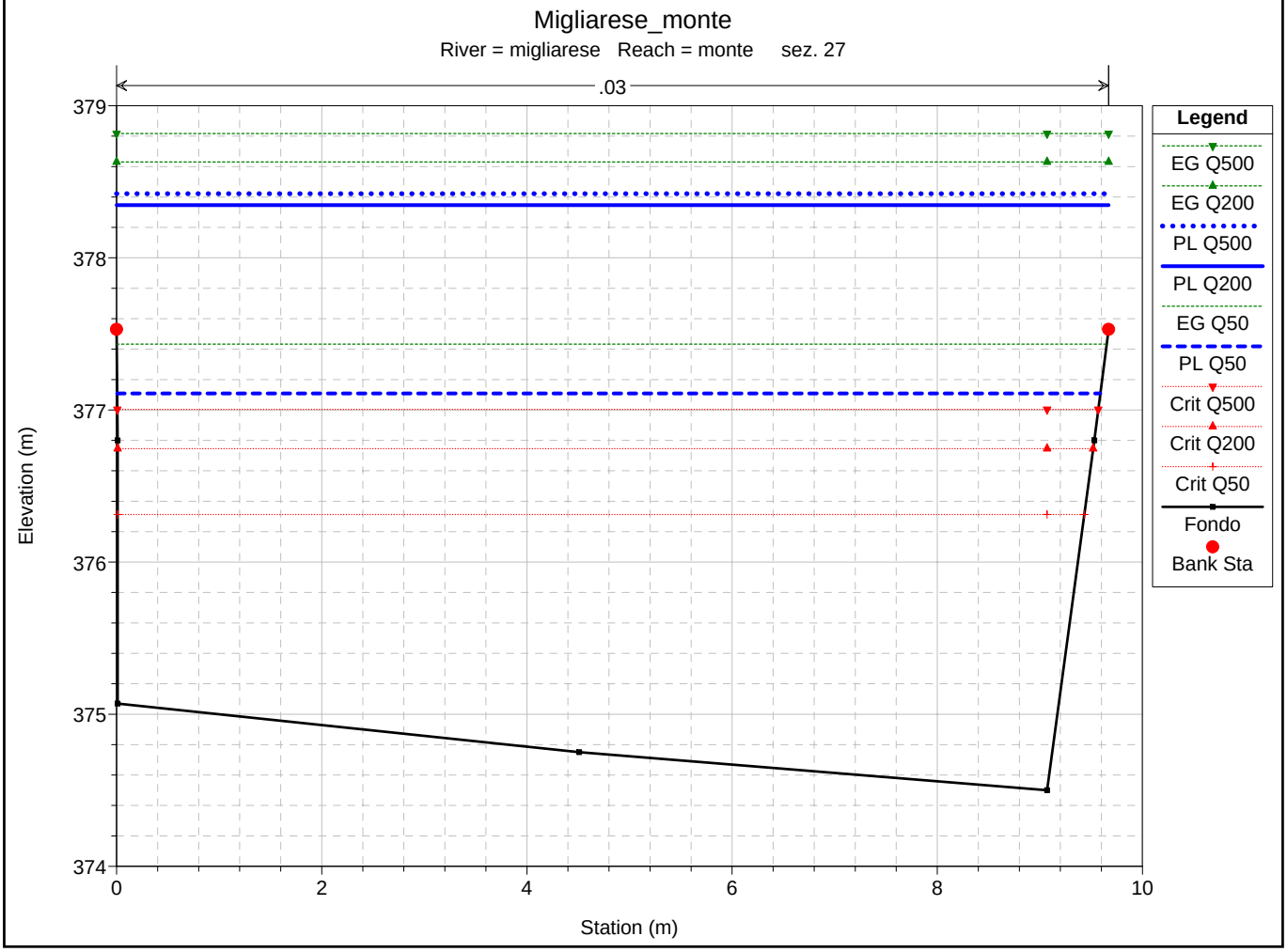
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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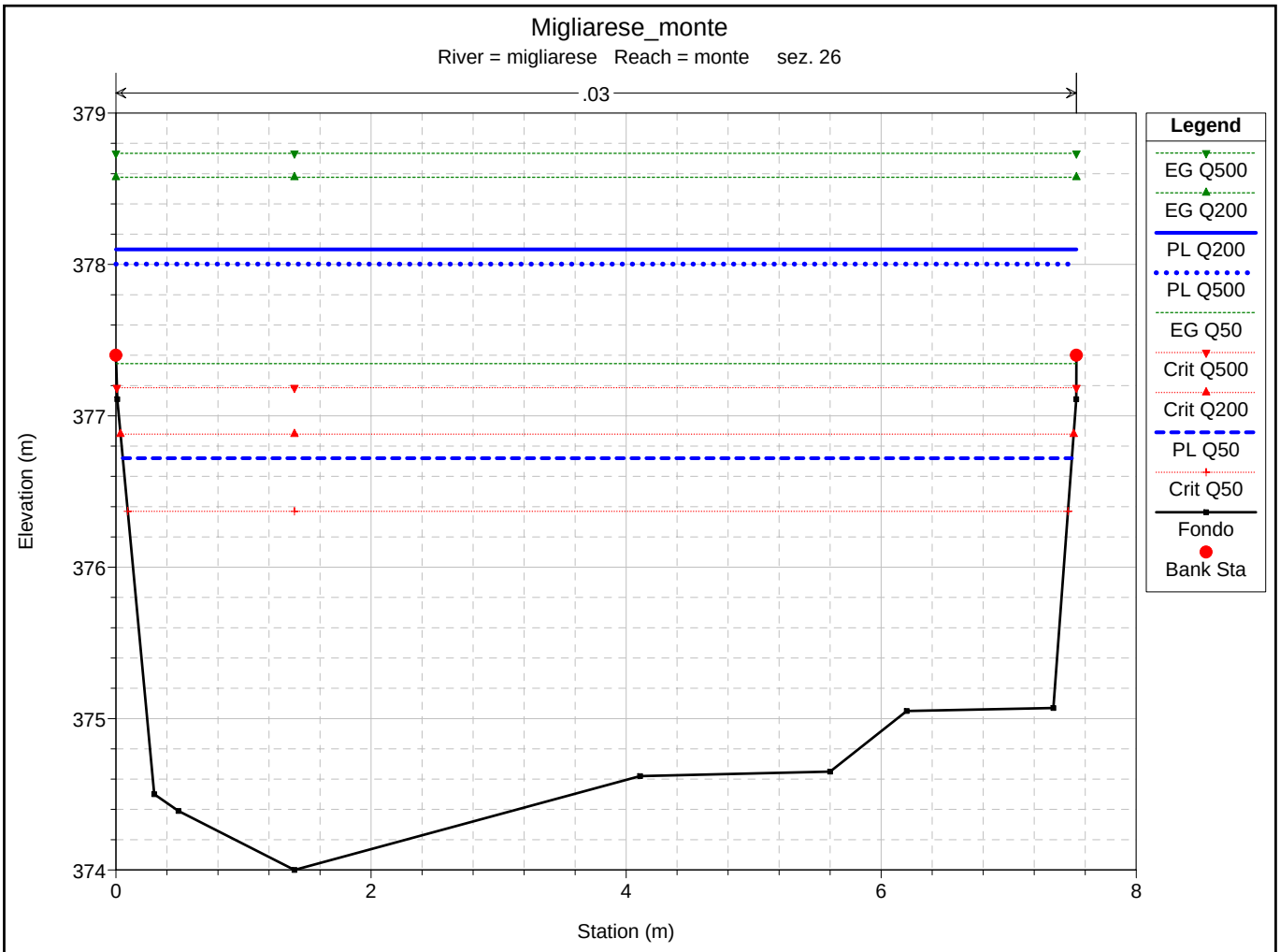
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


Migliarese_monte
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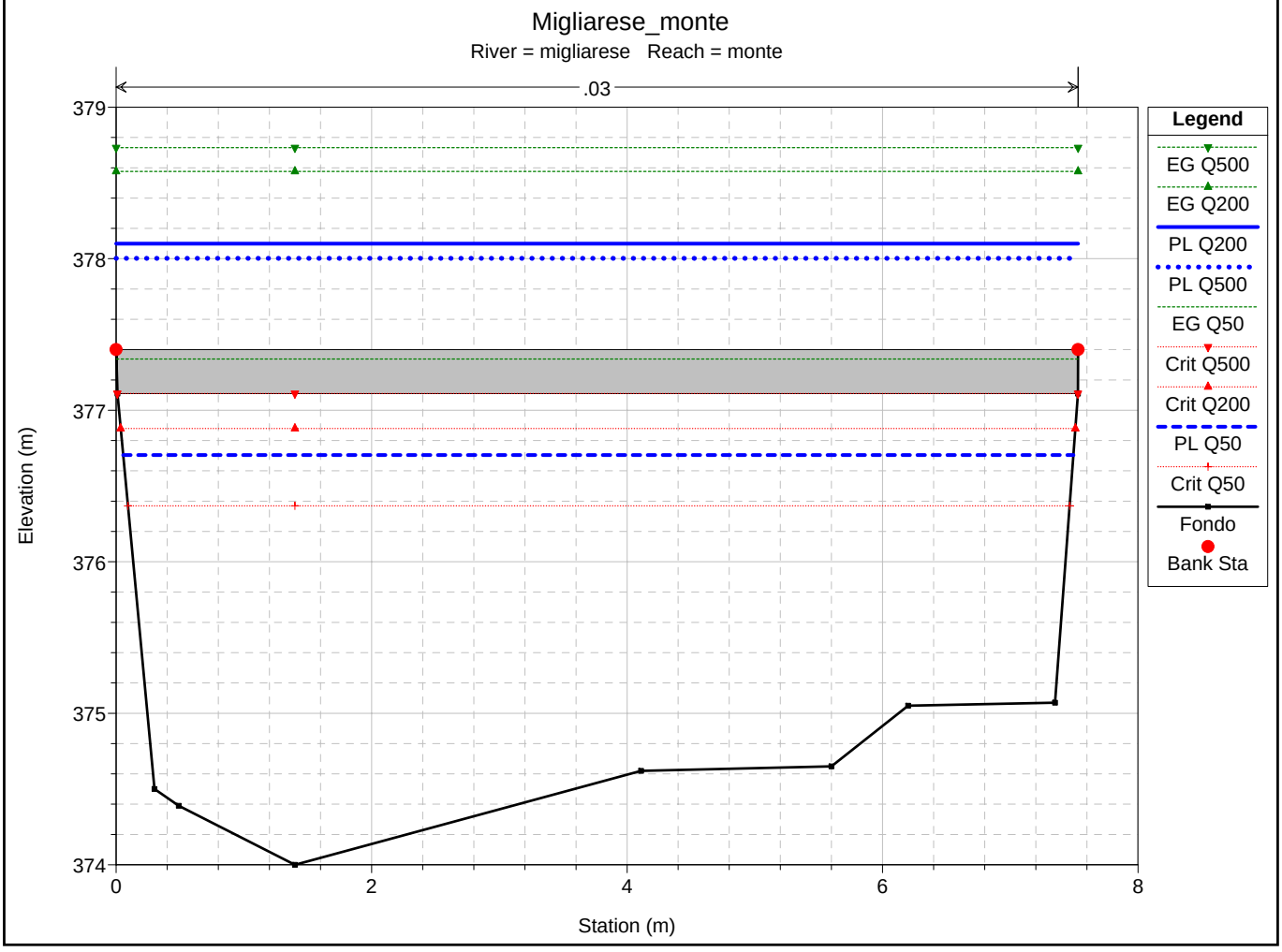
.03
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q200
PL Q500
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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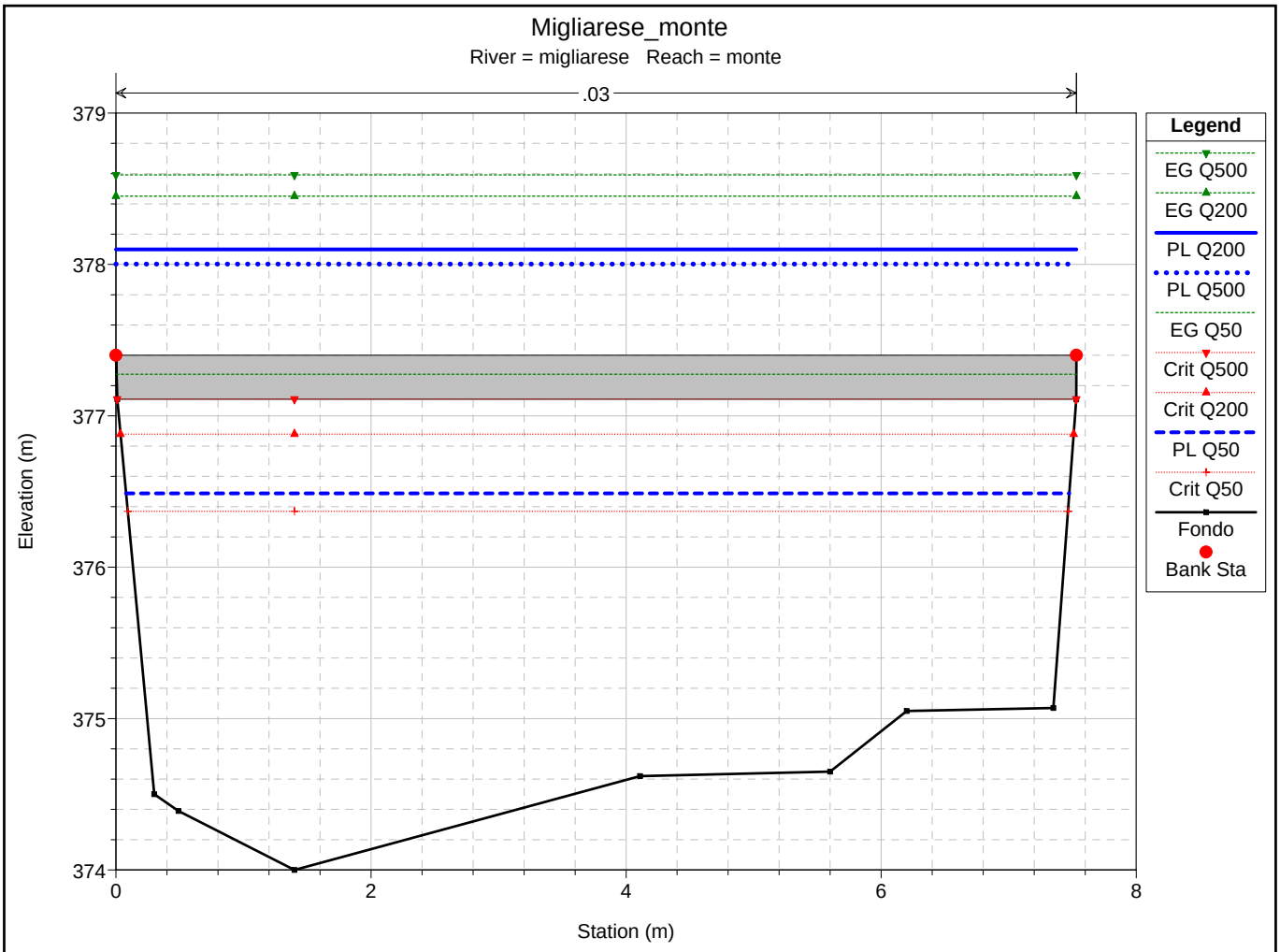
EG Q200
PL Q200
PL Q500
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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Legend
EG Q500
EG Q200
PL Q200
PL Q500
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
379
378
377
376
375
374
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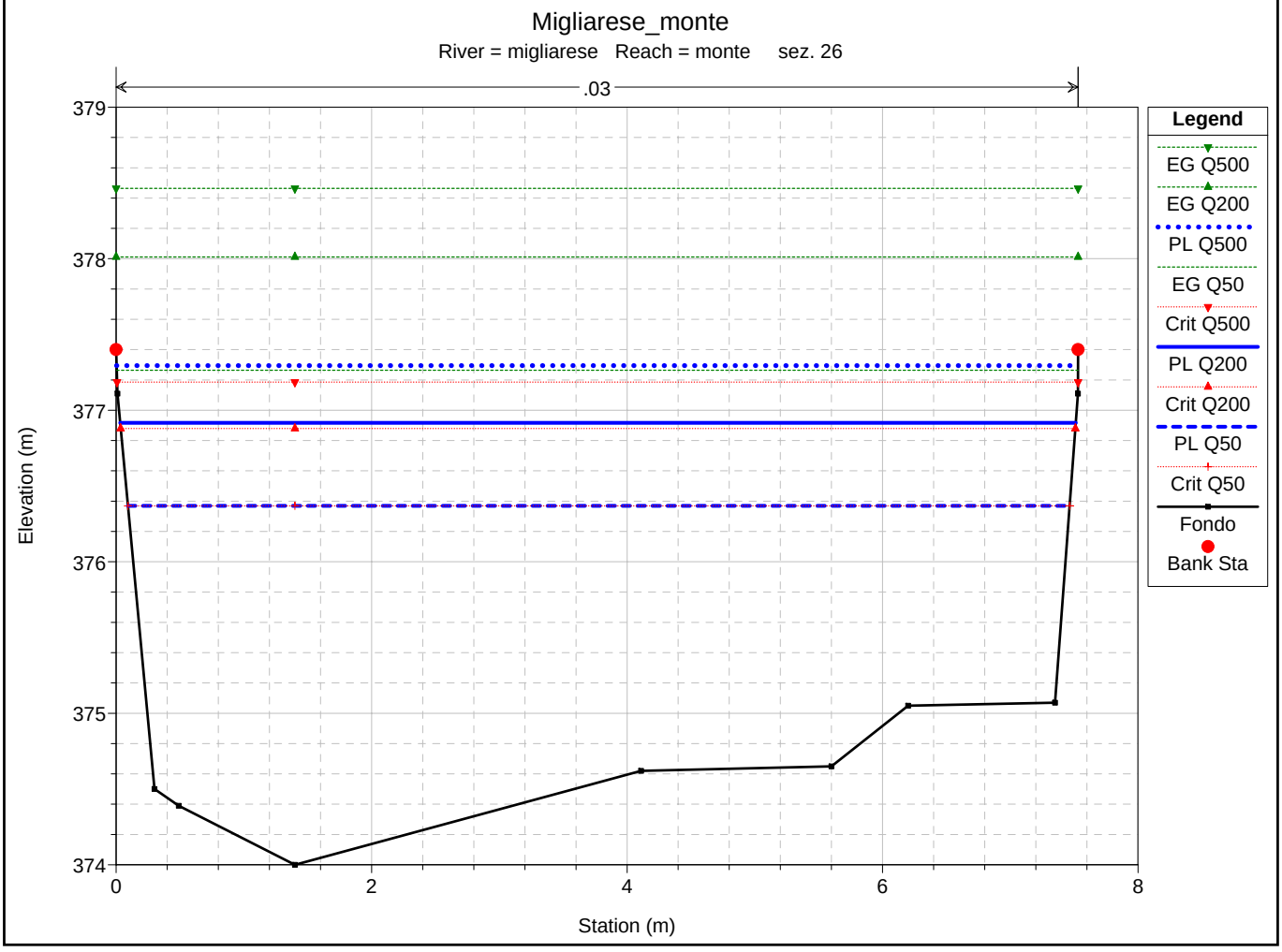
2
4
6
8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Legend
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EG Q200
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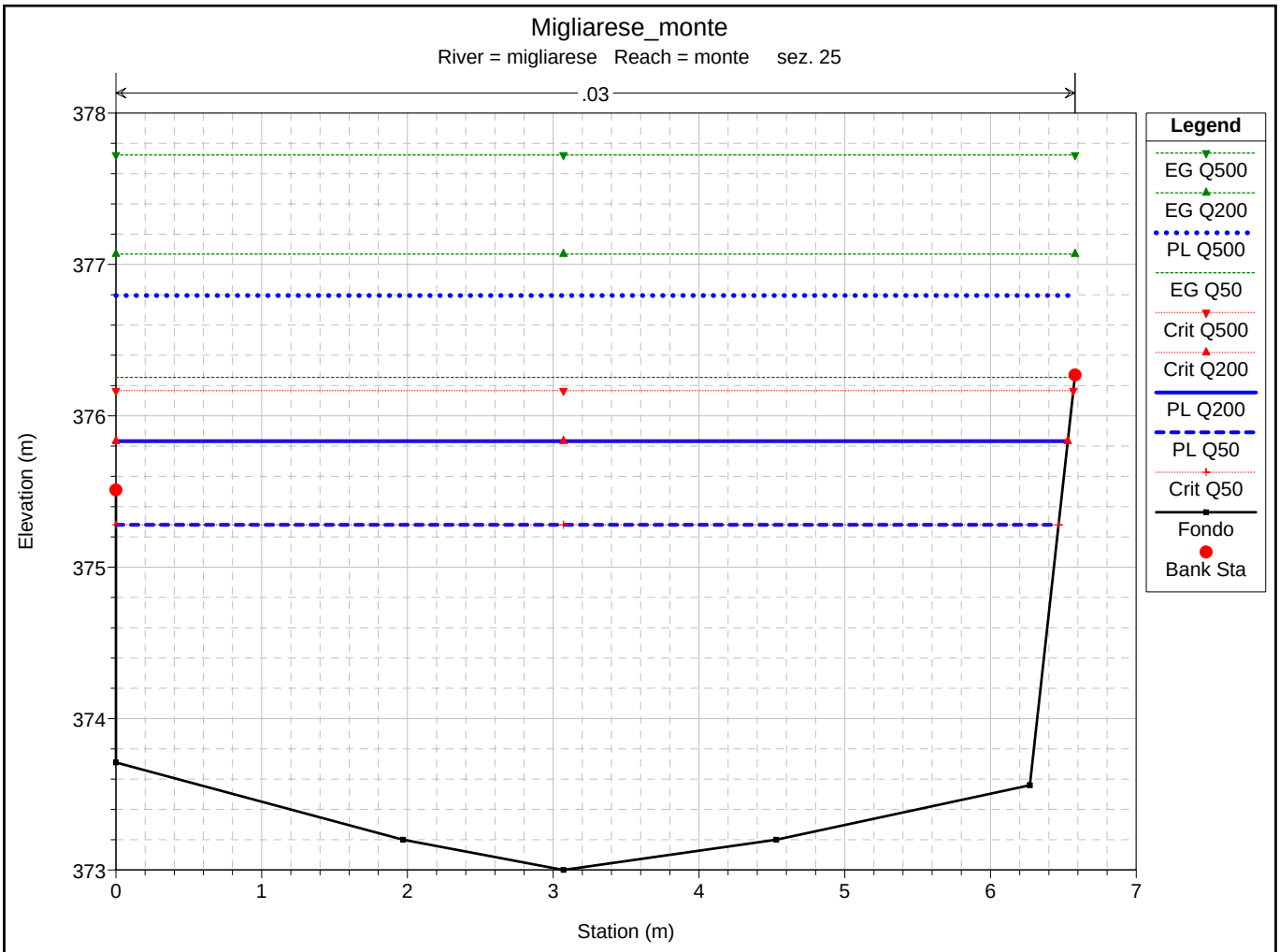
EG Q50
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
379
378
377
376
375
374
0
2
4
6
8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.03
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
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Crit Q200
PL Q200
PL Q50
Crit Q50
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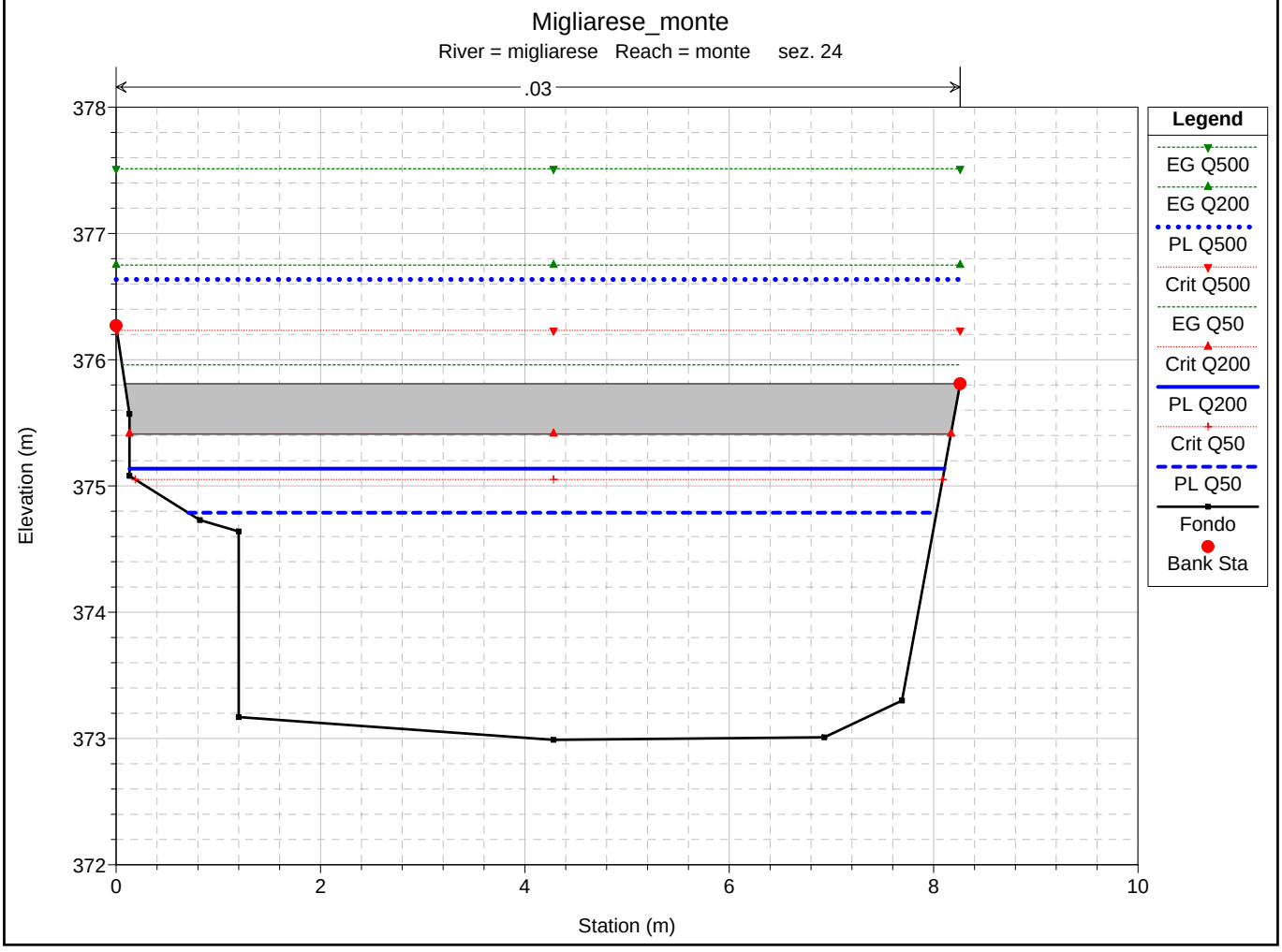
Bank Sta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River = migliarese Reach = monte sez. 24
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Elevation (m)
Station (m)
Legend
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EG Q200
PL Q500
Crit Q500
EG Q50
Crit Q200
PL Q200
Crit Q50
PL Q50
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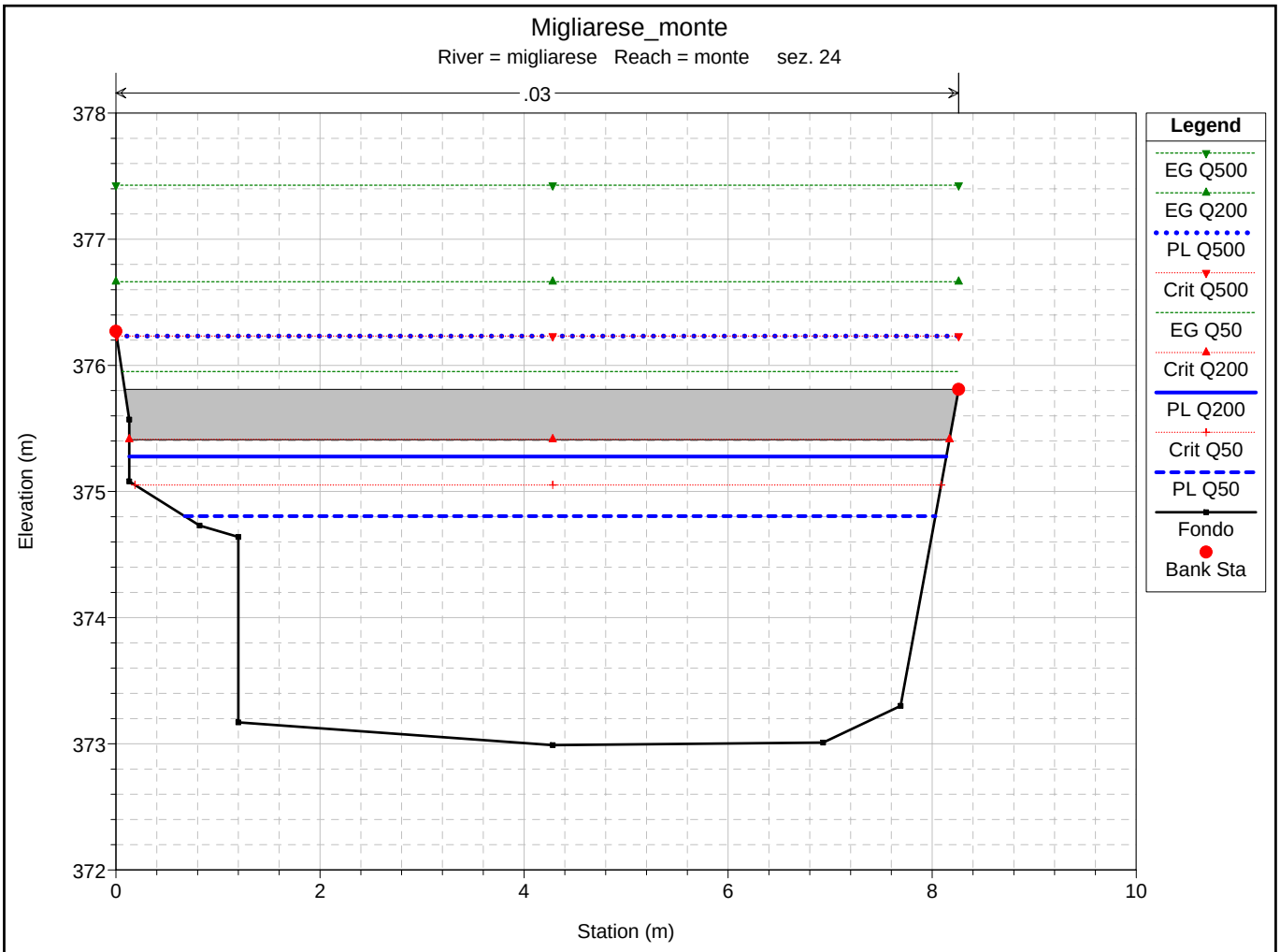
Bank Sta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Elevation (m)
Station (m)
Legend
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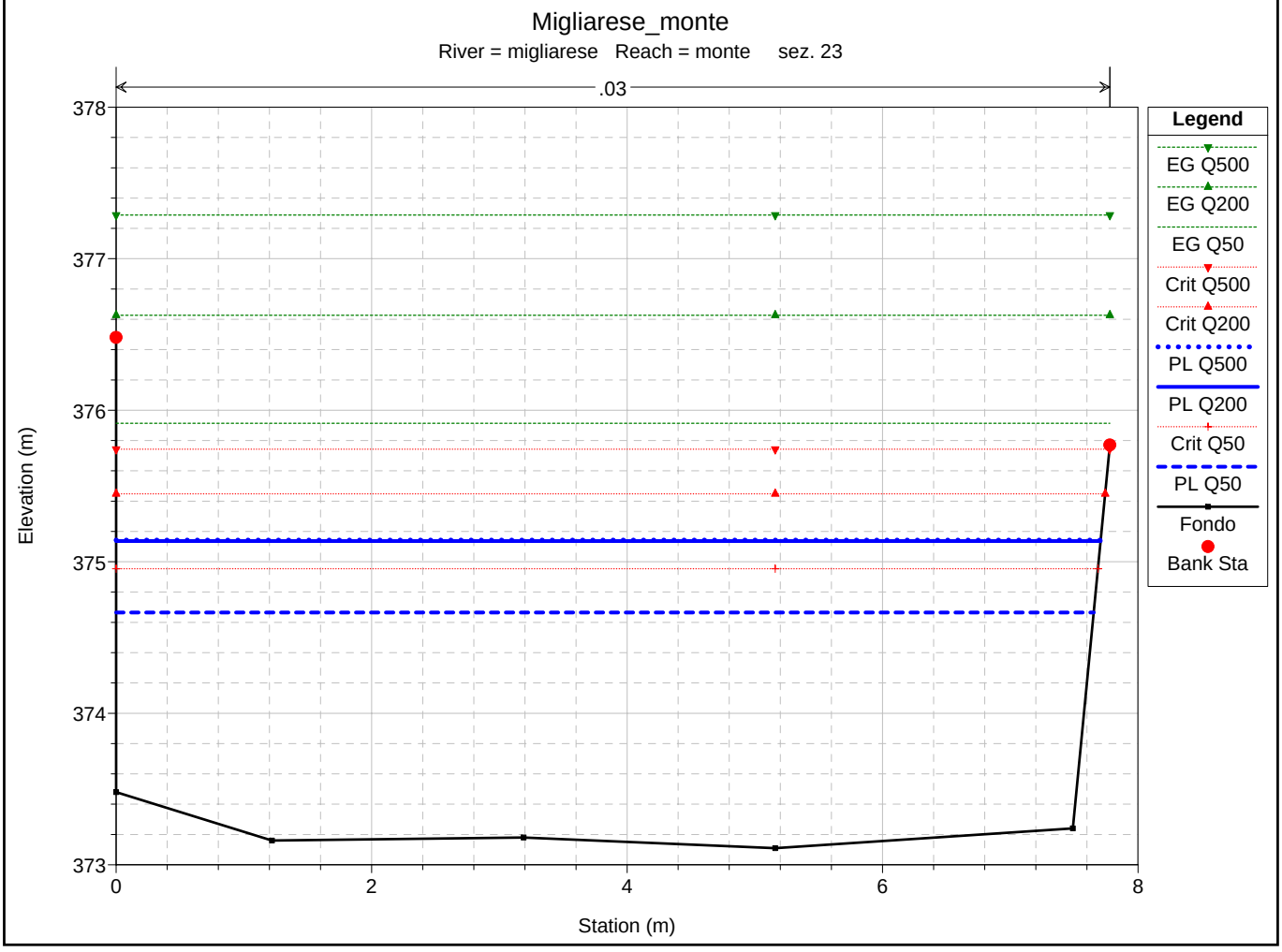
EG Q200
PL Q500
Crit Q500
EG Q50
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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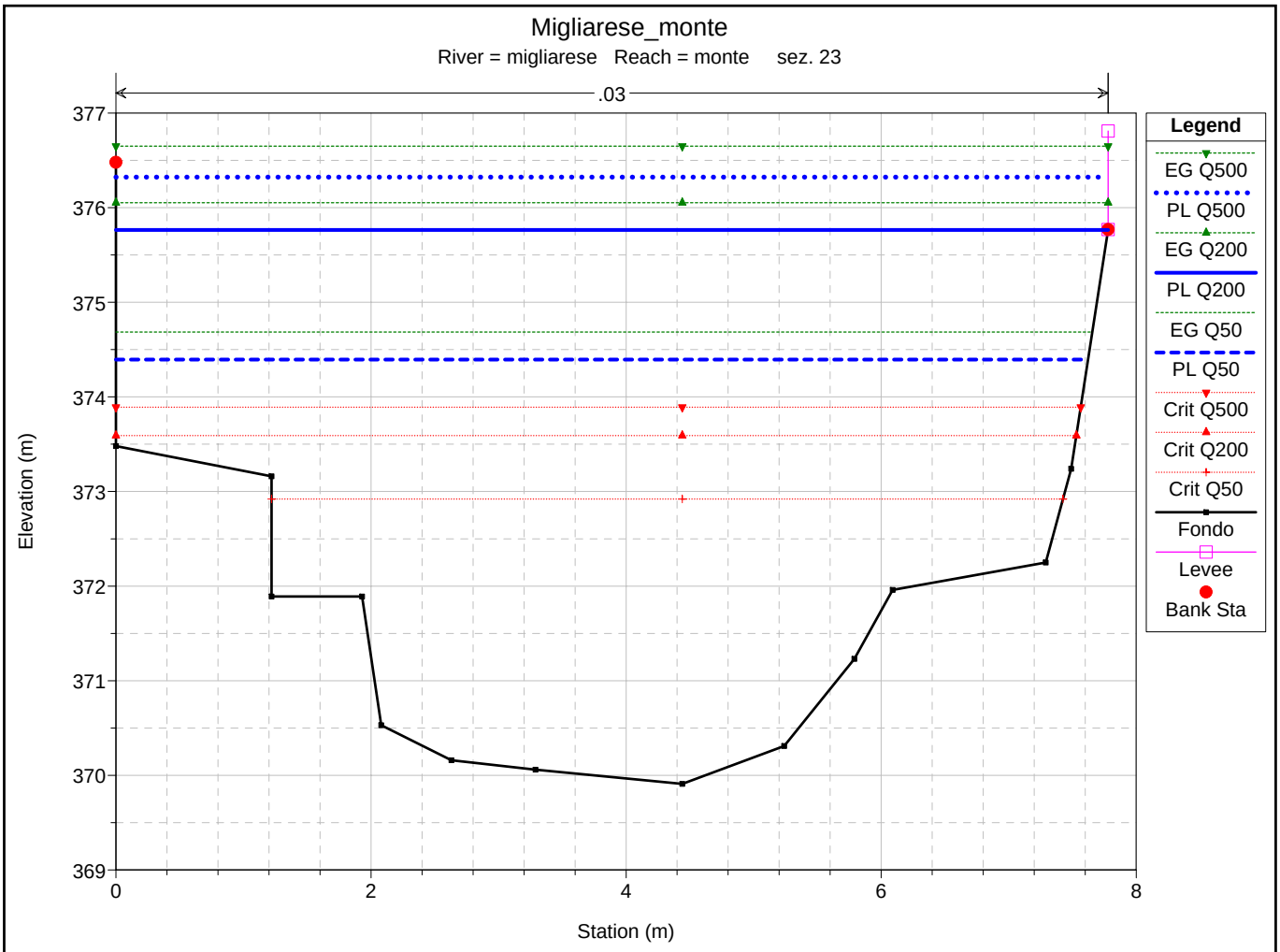
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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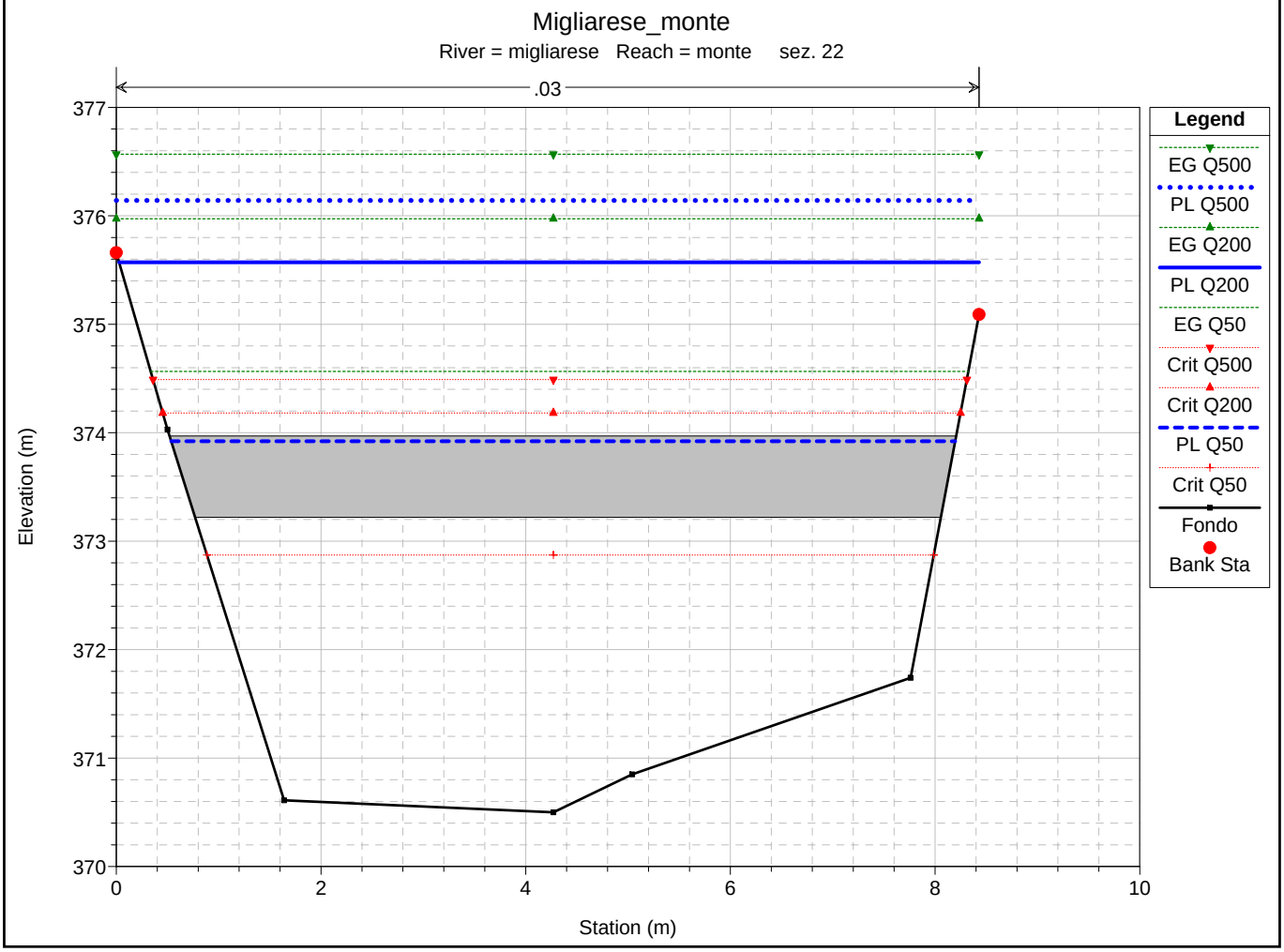
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Levee
Bank Sta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Elevation (m)
Station (m)
Legend
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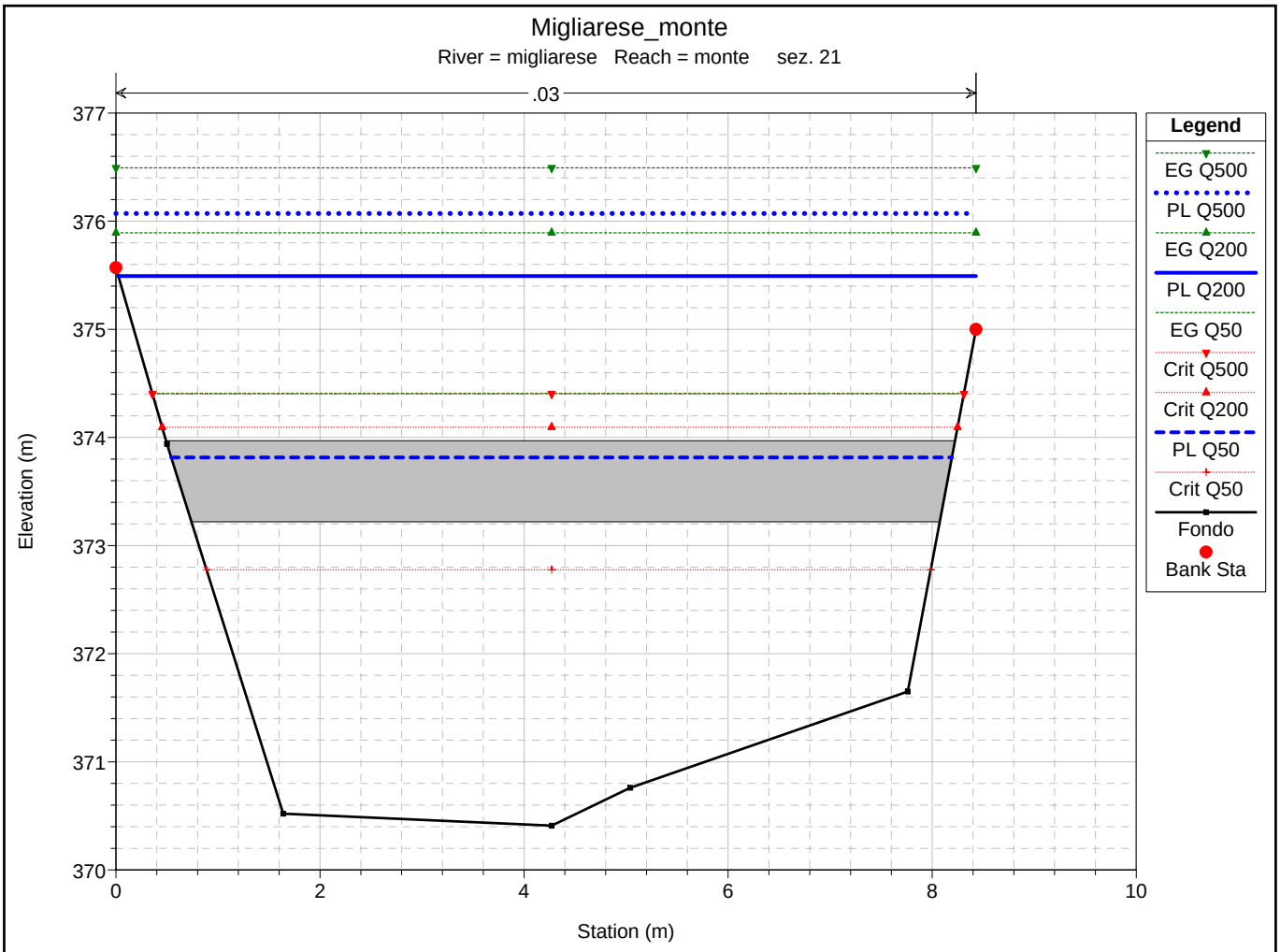
EG Q200
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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River = migliarese Reach = monte sez. 21
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Elevation (m)
Station (m)
Legend
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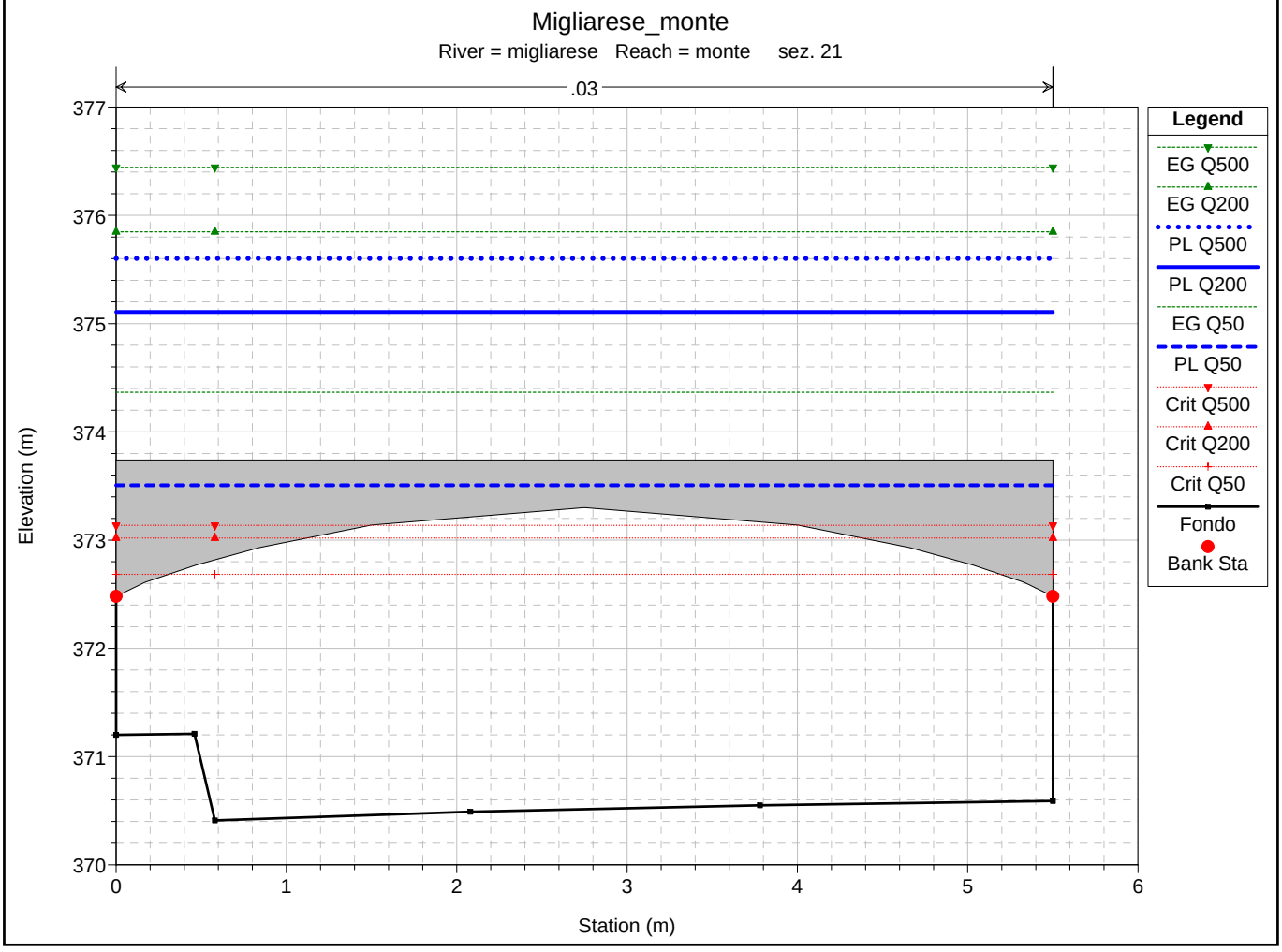
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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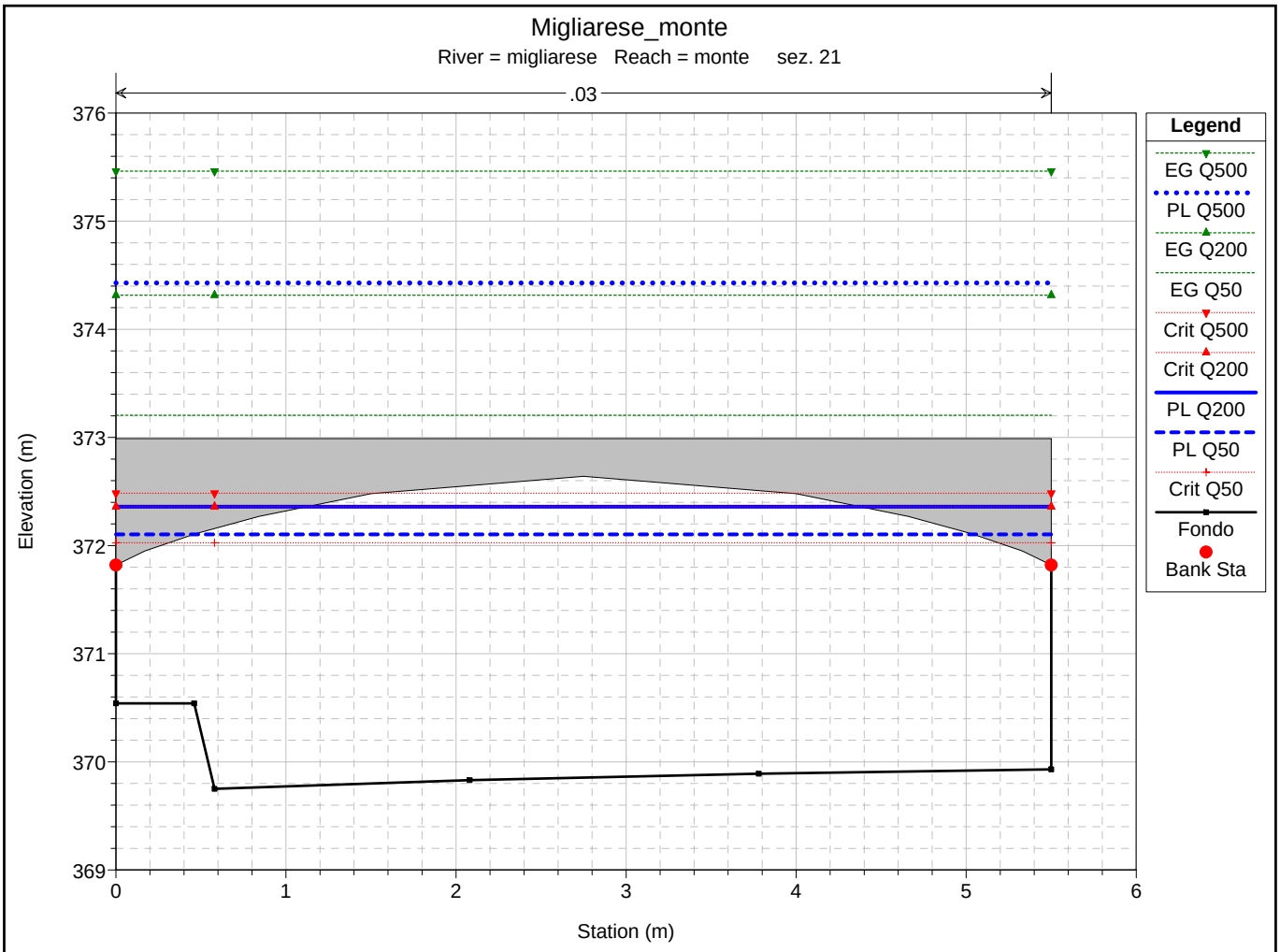
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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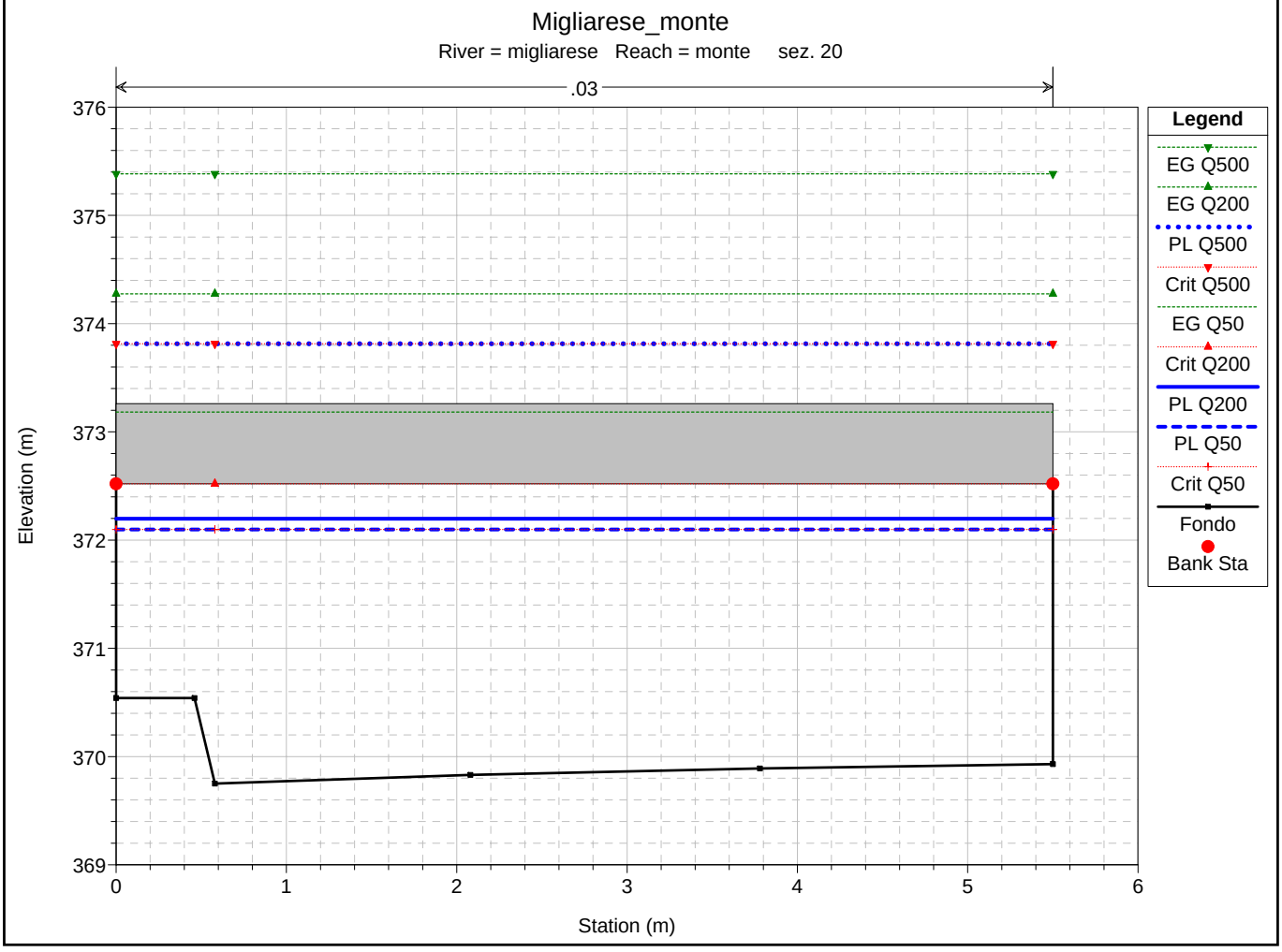
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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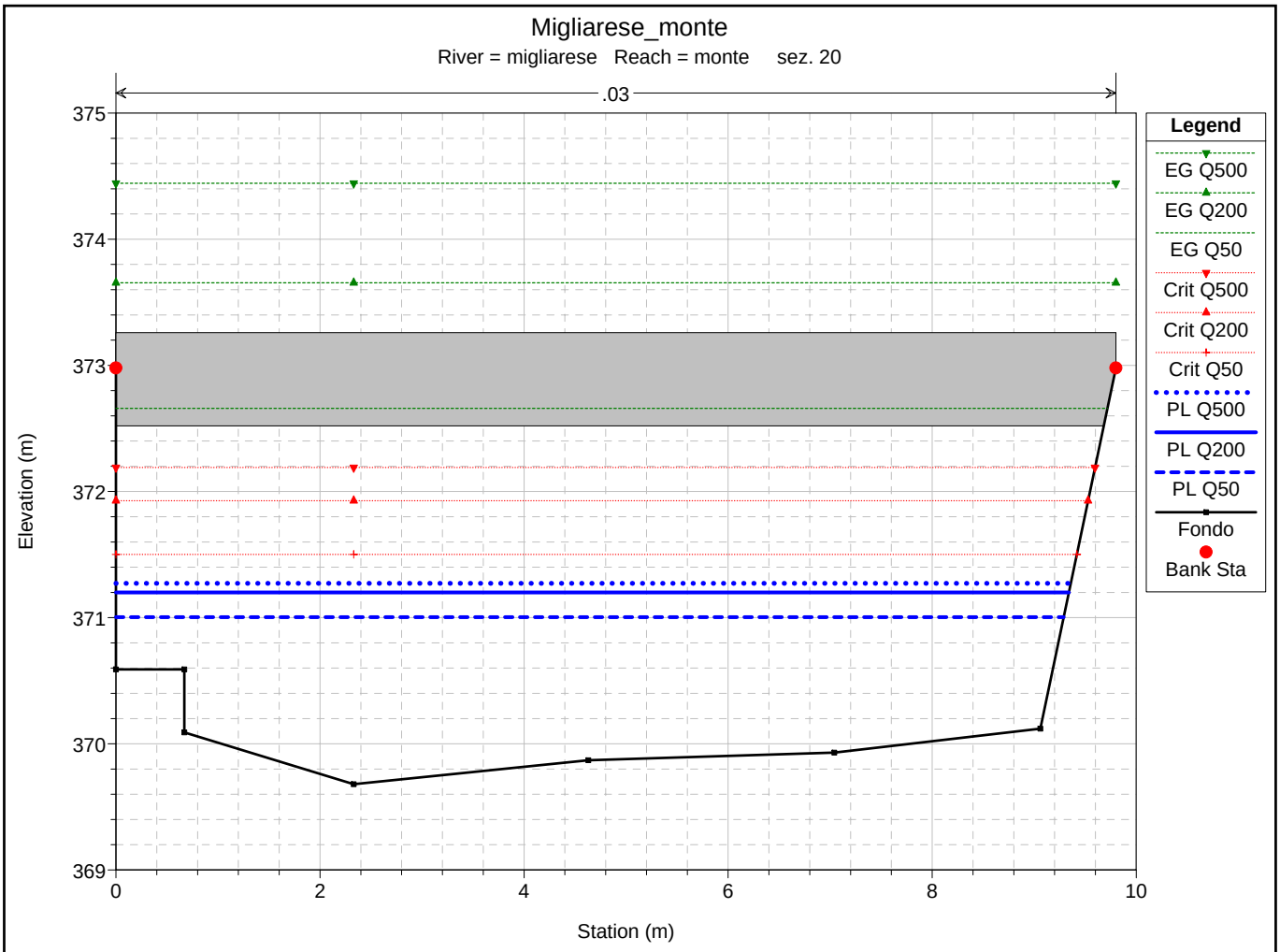
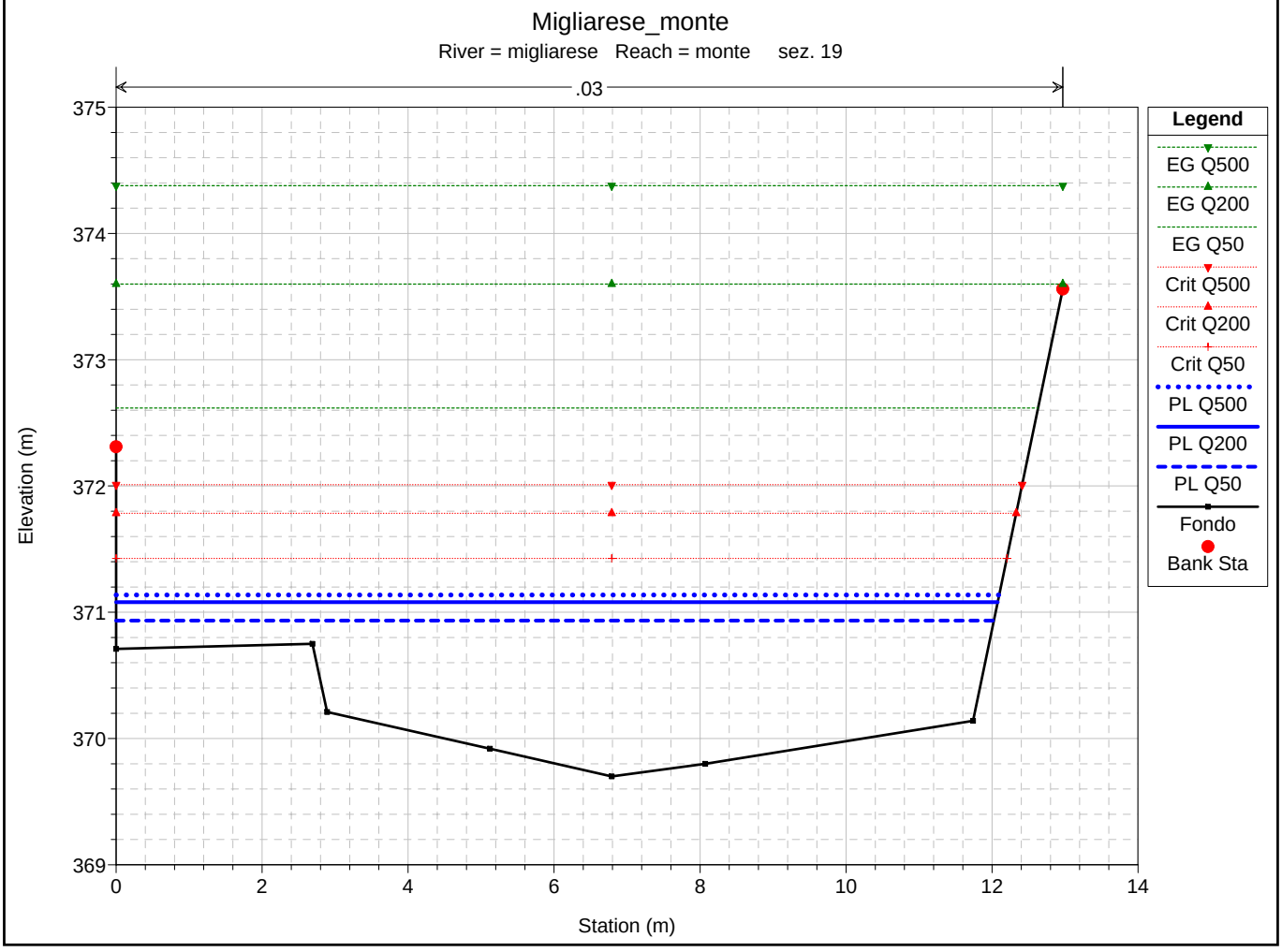
PL Q500
Crit Q500
EG Q50
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Migliarese_monte
River = migliarese Reach = monte sez. 20
.03
Elevation (m)
375
374
373
372
371
370
369
0
2
4
6
8
10
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Migliarese_monte
River = migliarese Reach = monte sez. 19
.03
Elevation (m)
375
374
373
372
371
370
369
0
2
4
6
8
10
12
14
Station (m)
Legend
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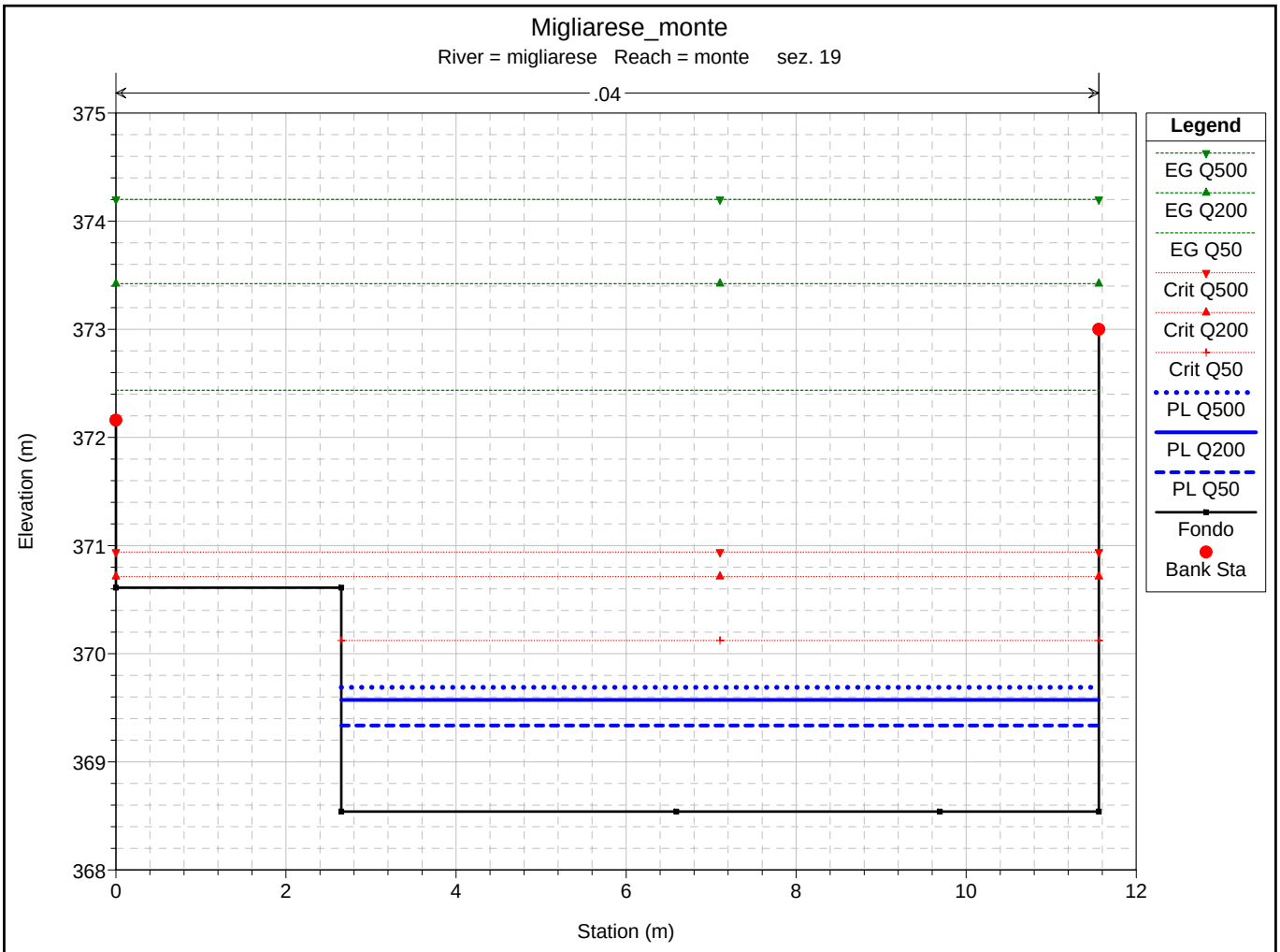
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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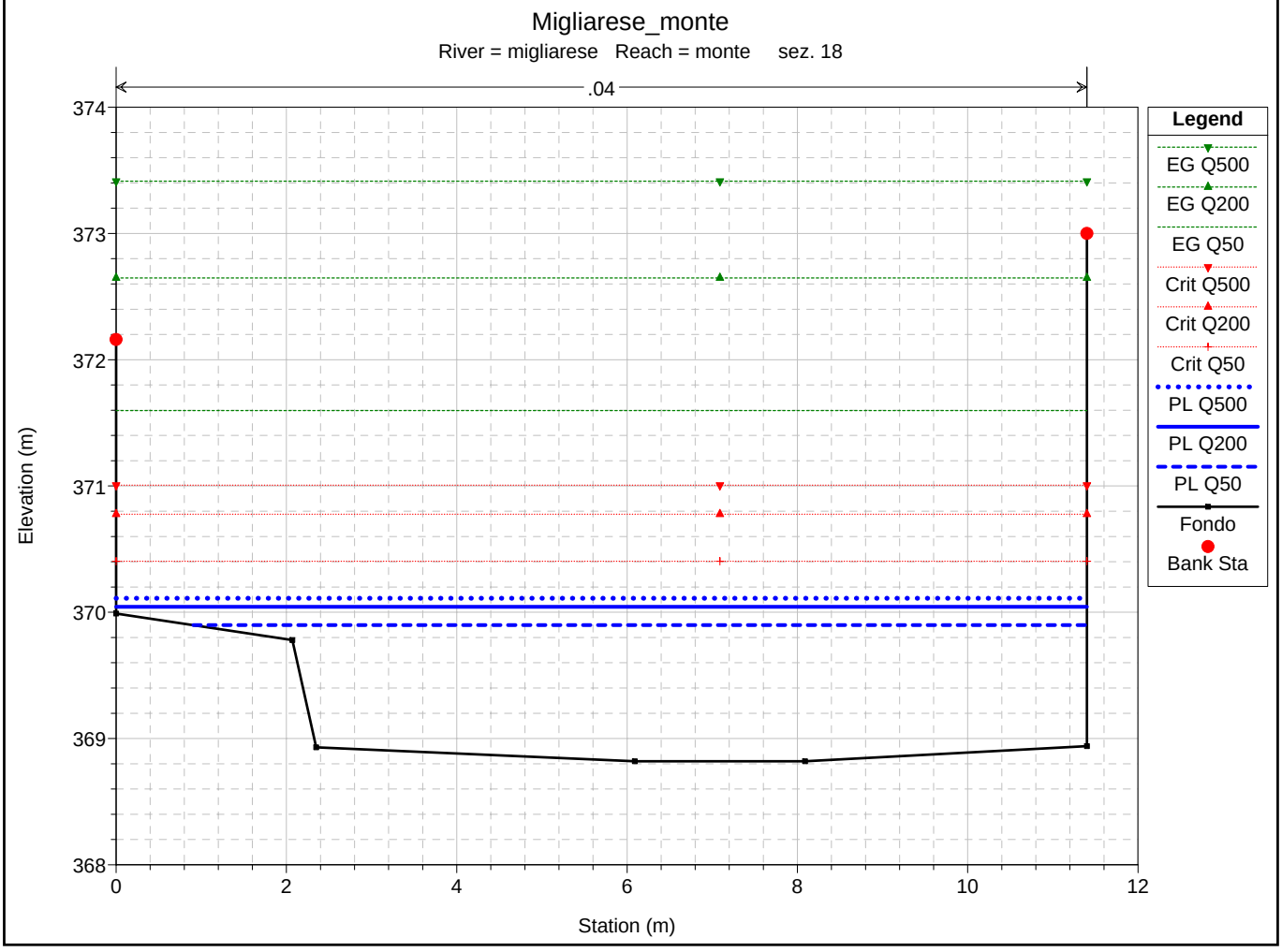
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Migliarese_monte
River = migliarese Reach = monte sez. 18
.04
Elevation (m)
Station (m)
Legend
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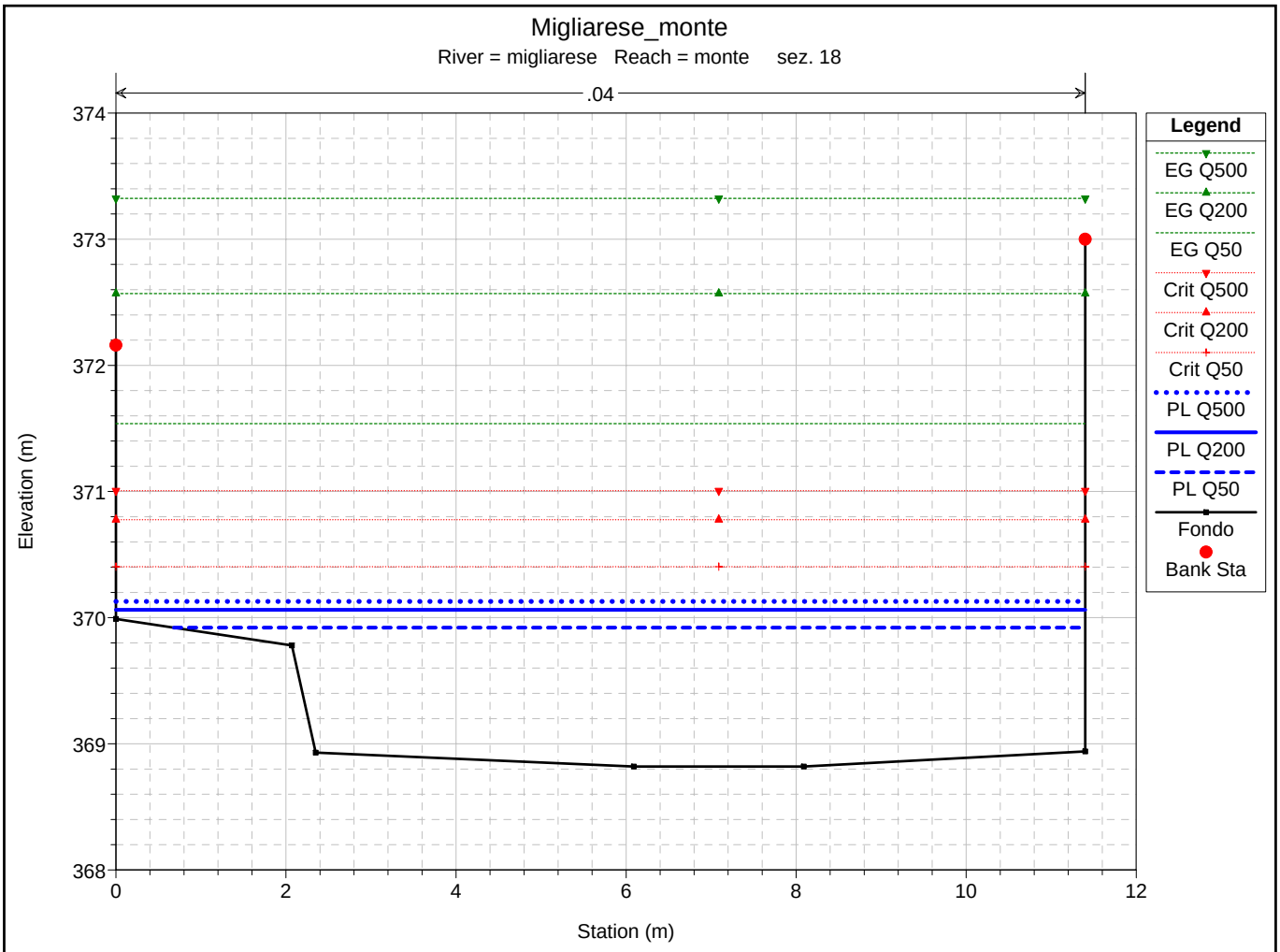
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Migliarese_monte
River = migliarese Reach = monte sez. 18
.04
Elevation (m)
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368
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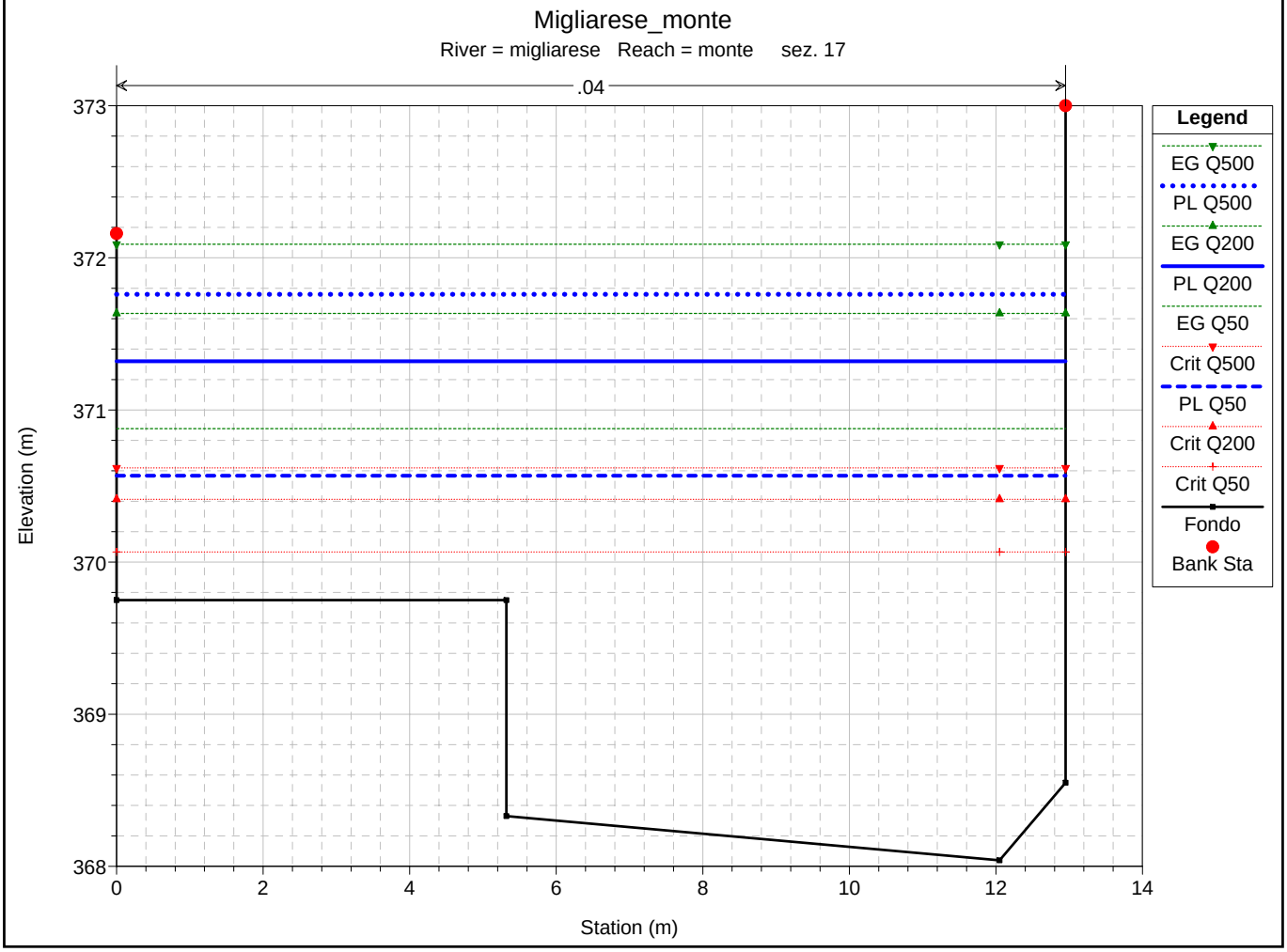
8
10
12
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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Elevation (m)
373
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Station (m)
Legend
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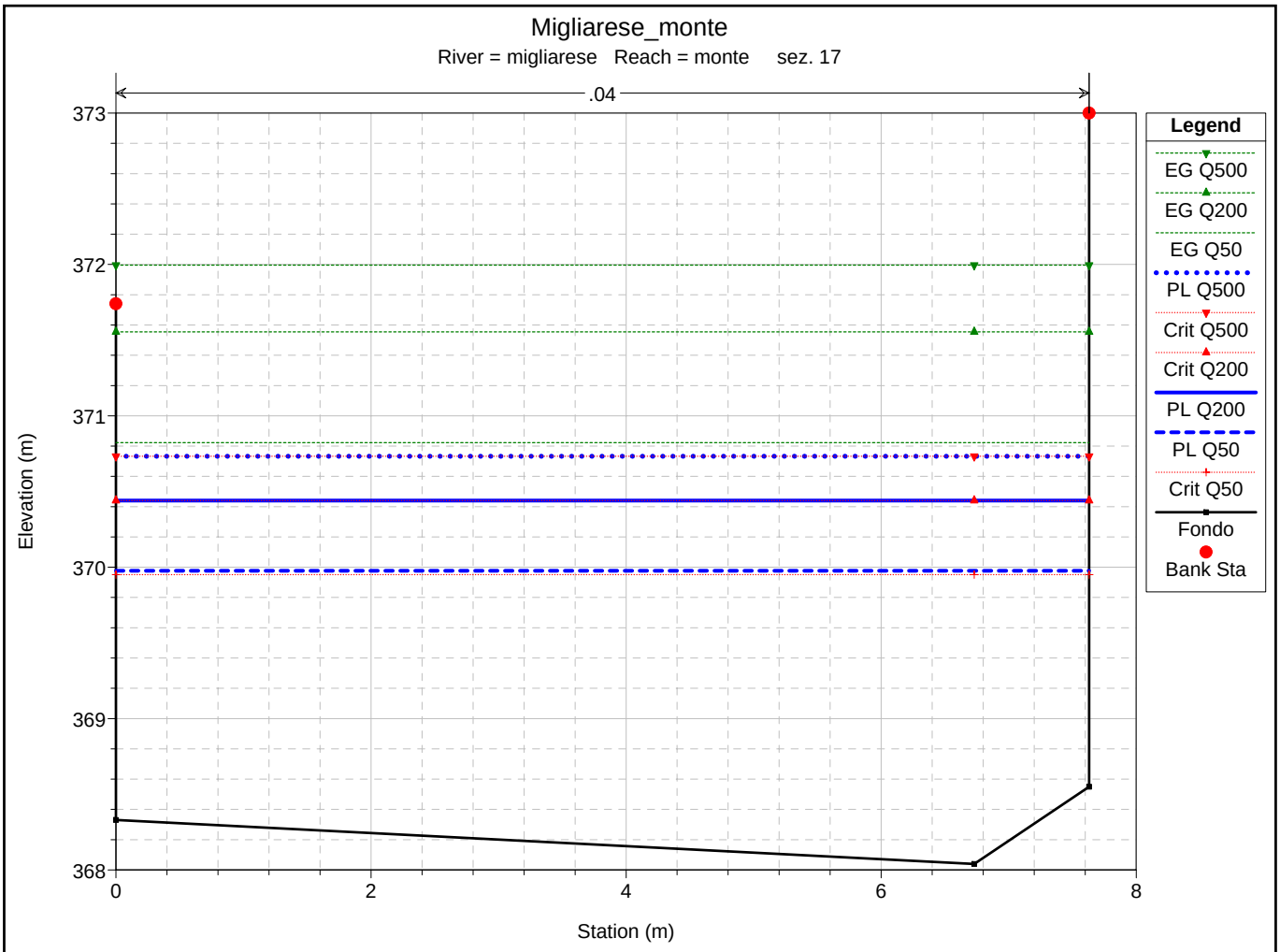
PL Q500
EG Q200
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta


Migliarese_monte
River = migliarese Reach = monte sez. 17
.04
Elevation (m)
373
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0
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Station (m)
Legend
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EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
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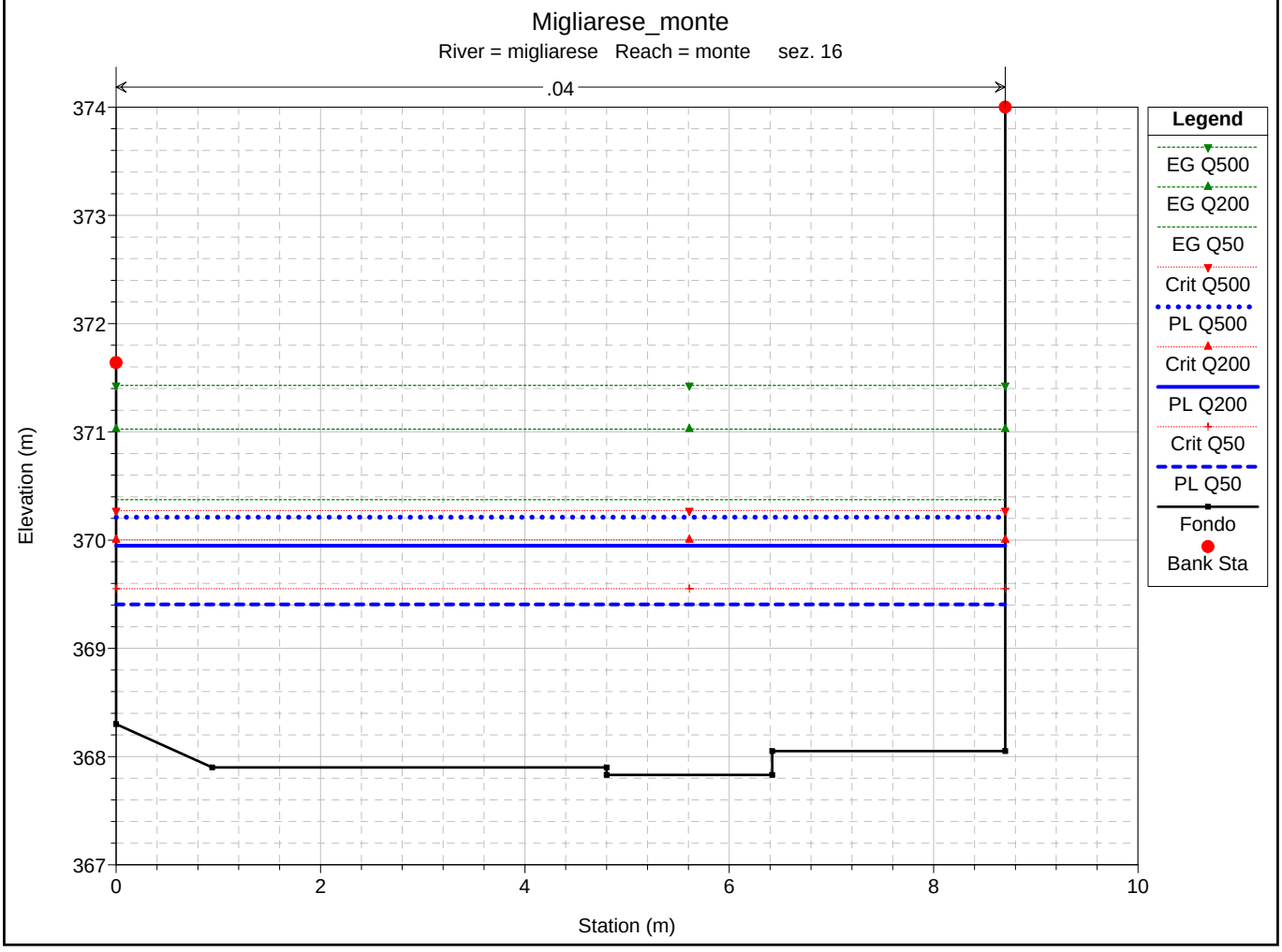
Migliarese_monte
River = migliarese Reach = monte sez. 16
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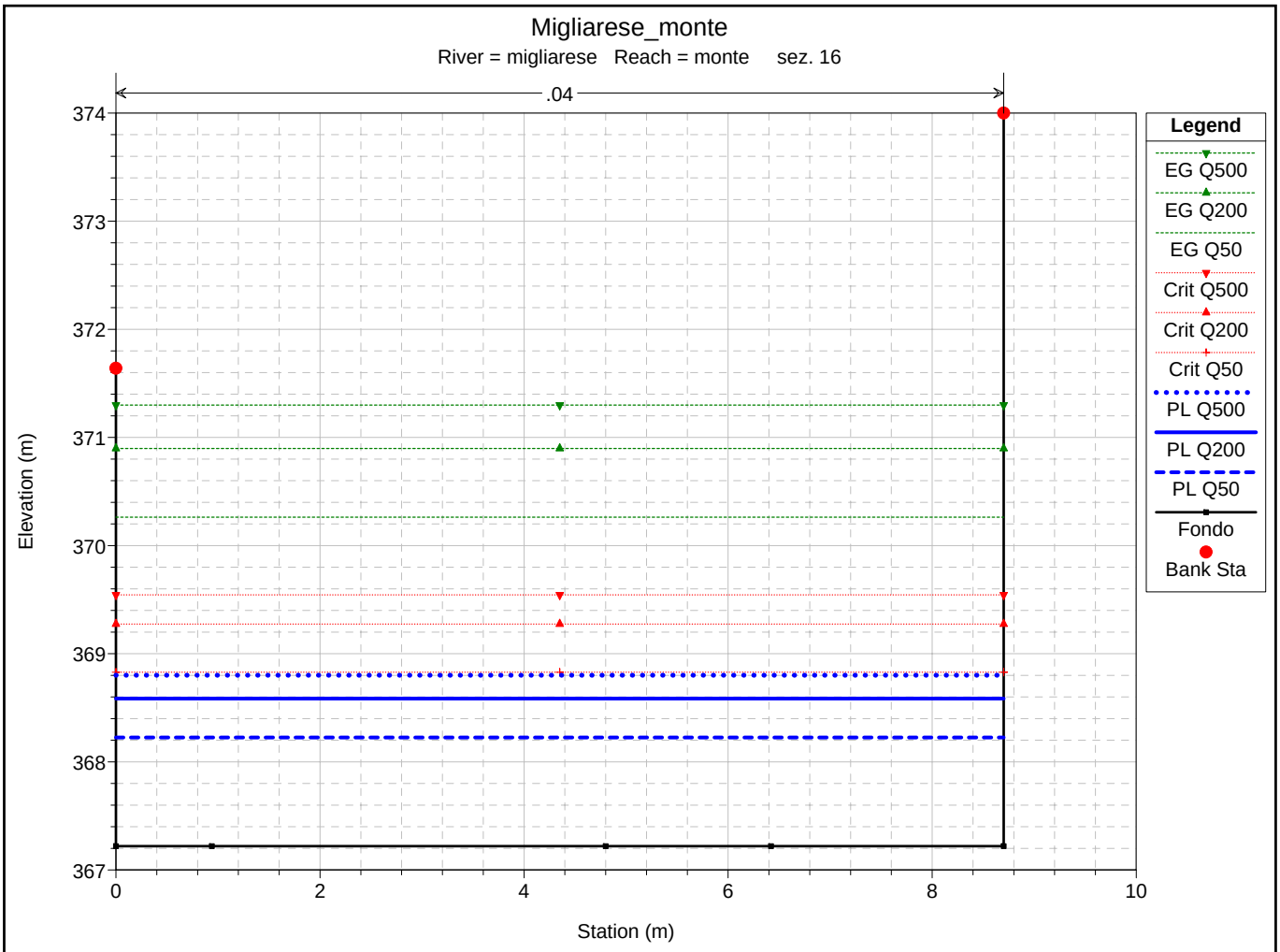
Elevation (m)
374
373
372
371
370
369
368
367
0
2
4
6
8
10
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Migliarese_monte
River = migliarese Reach = monte sez. 16
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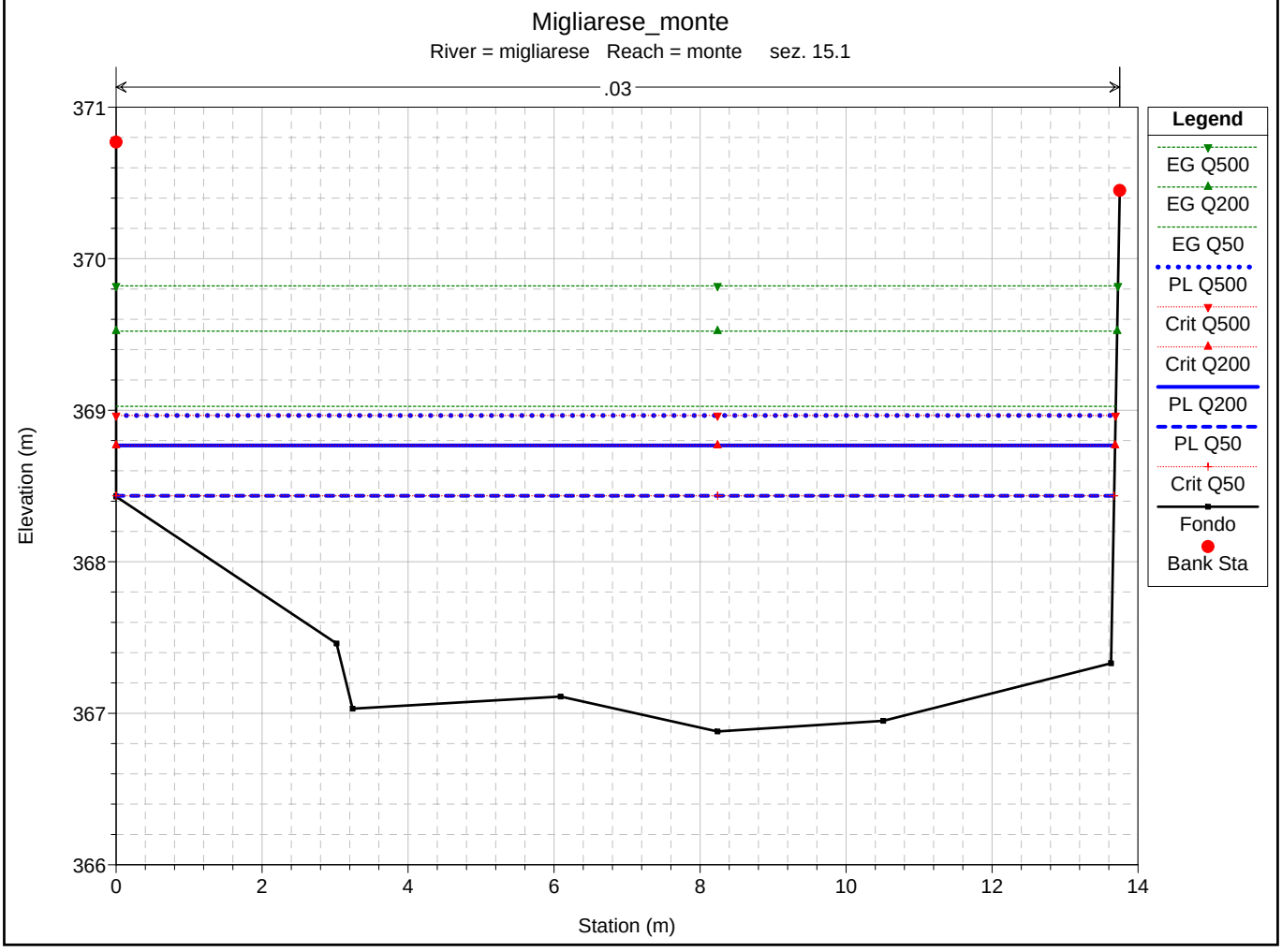
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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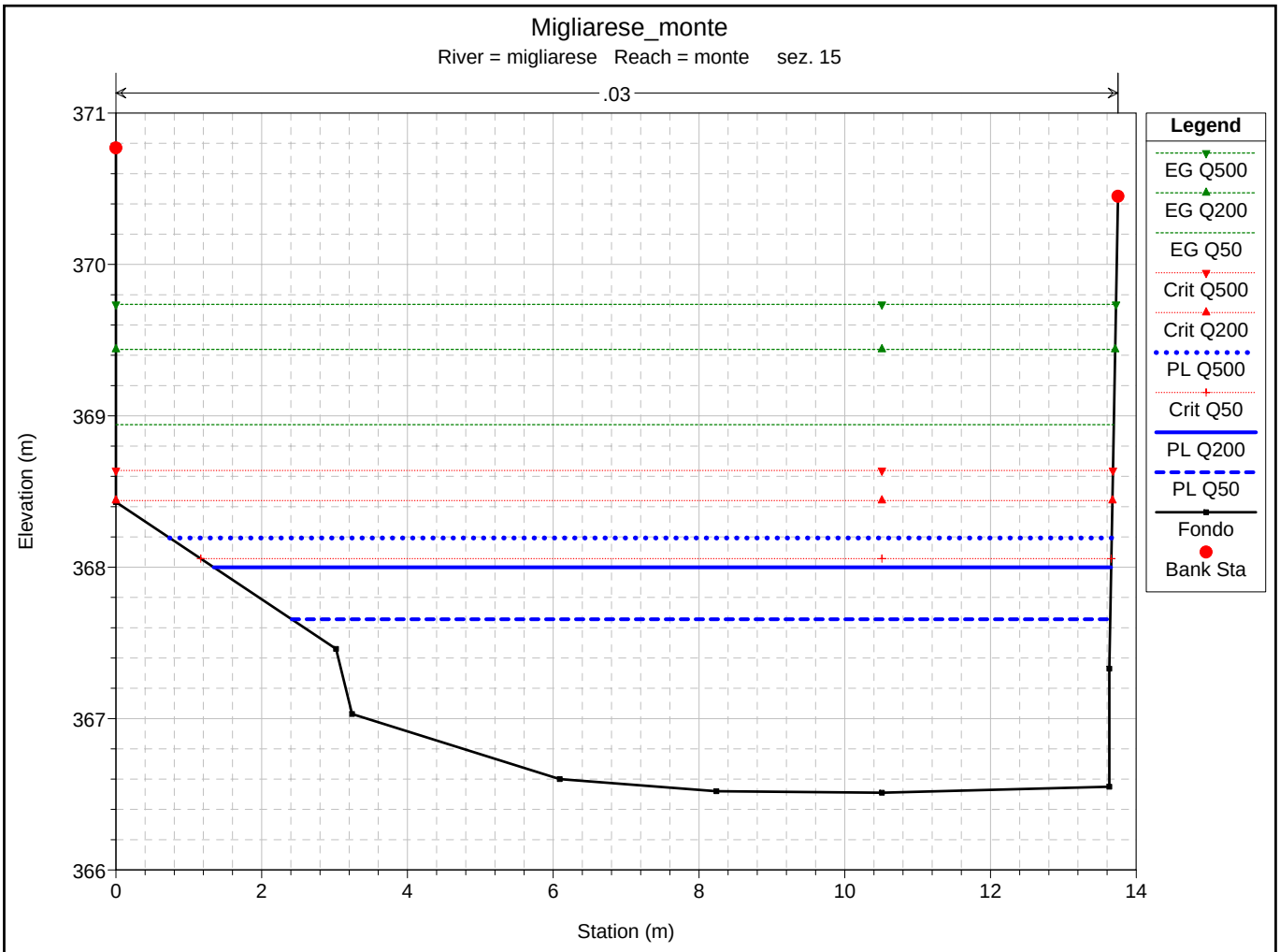
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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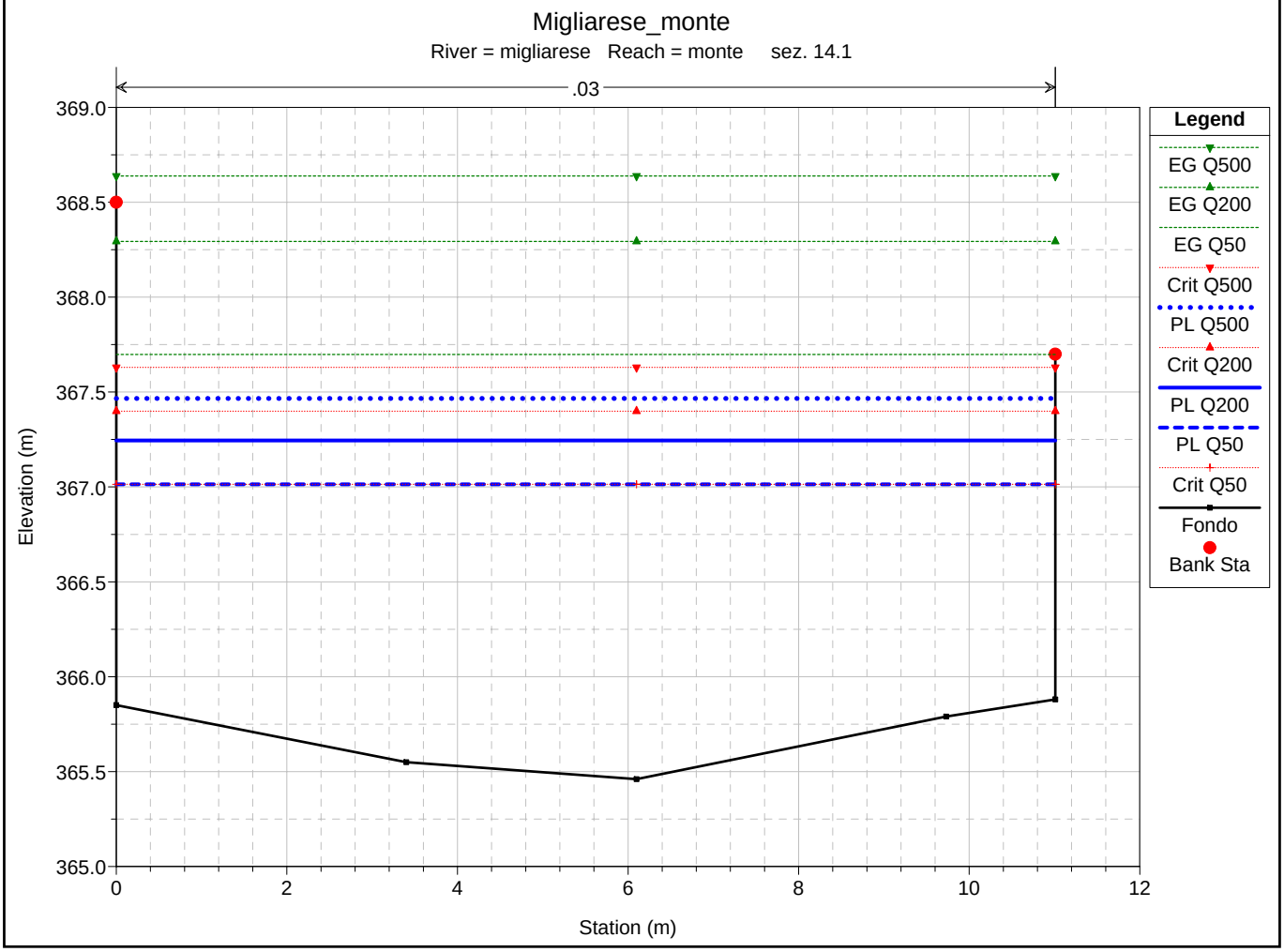
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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EG Q200
EG Q50
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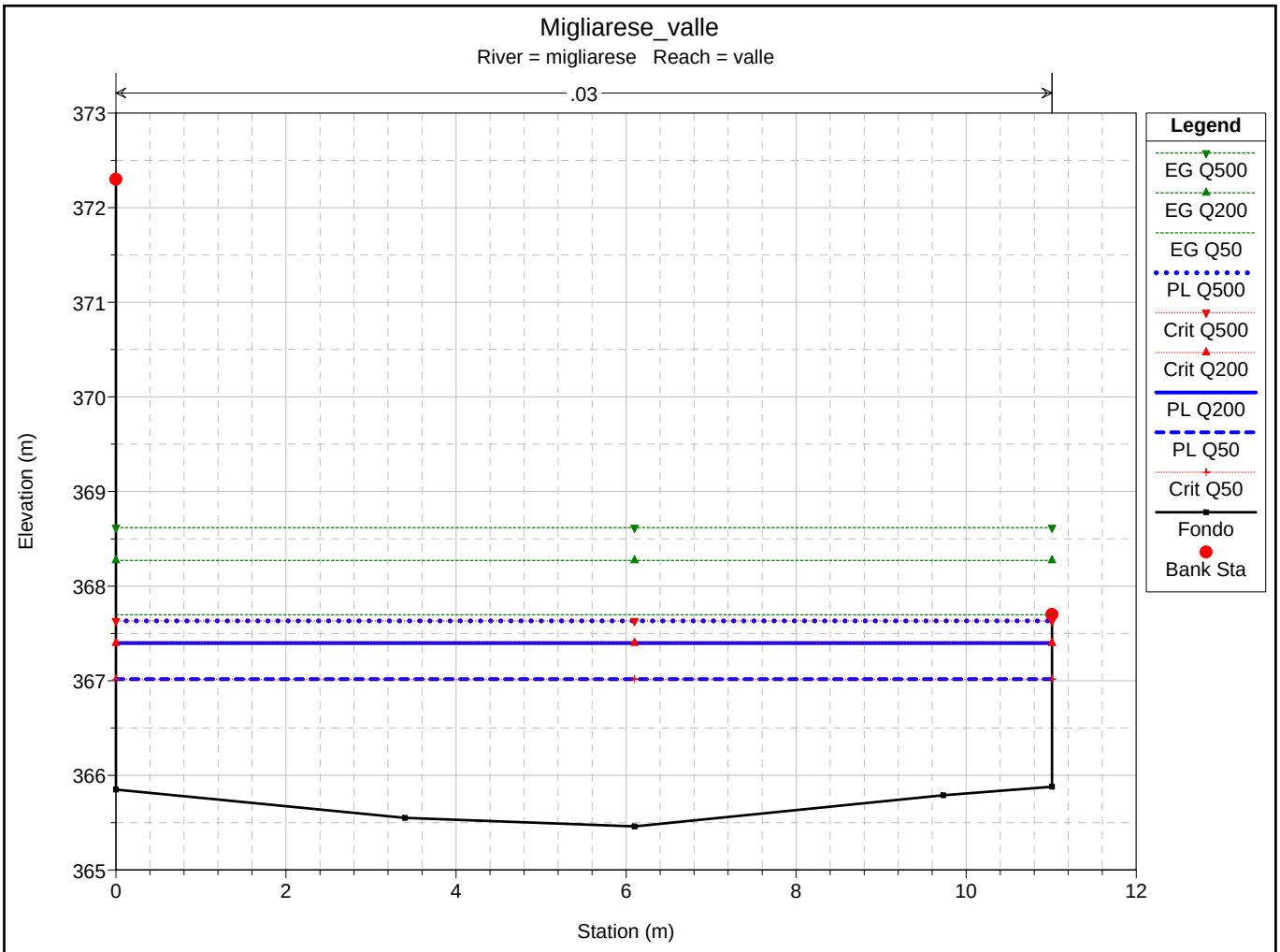
PL Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Migliarese_valle
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.03
Elevation (m)
Station (m)
Legend
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EG Q200
EG Q50
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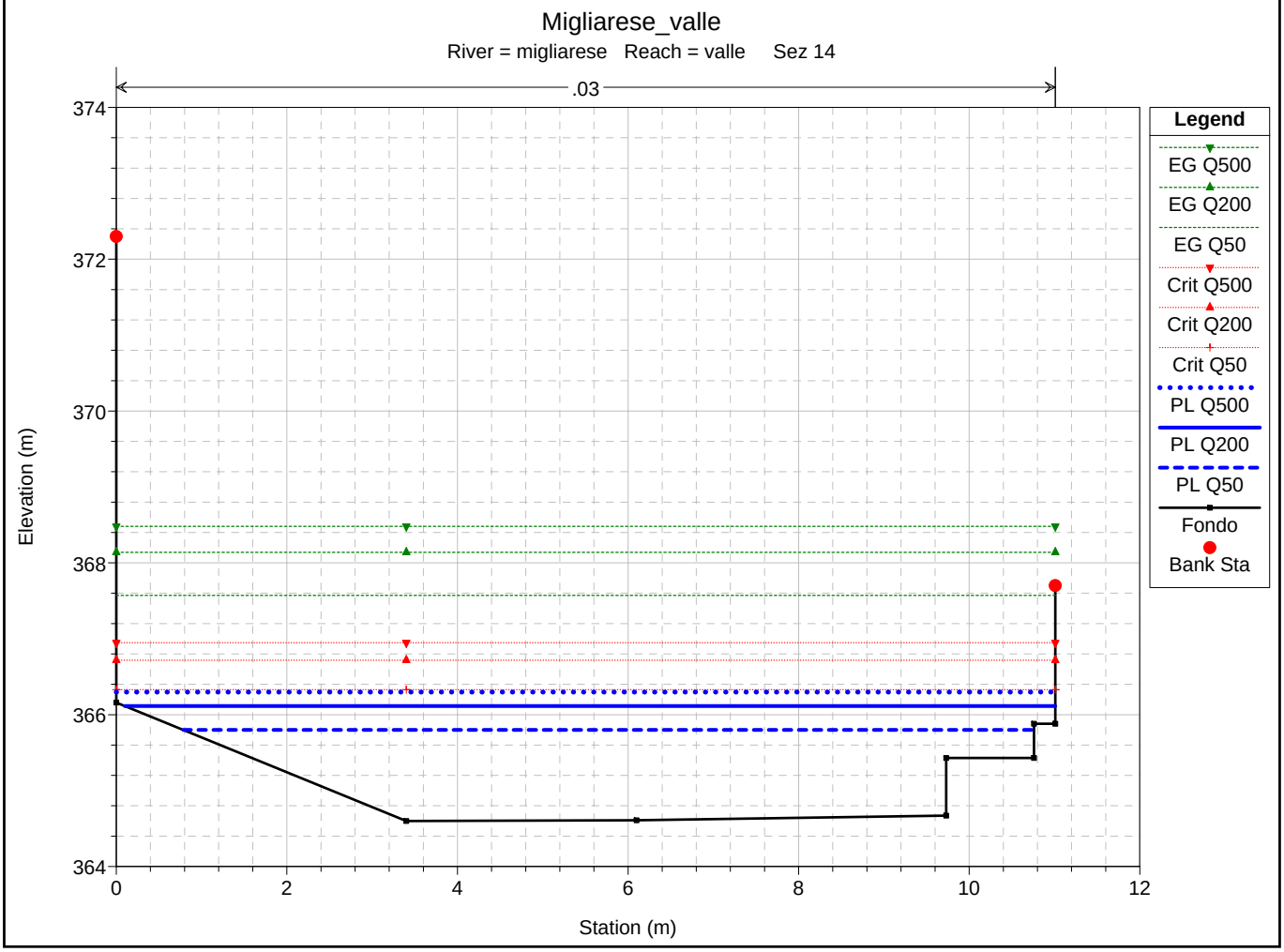
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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.03
Elevation (m)
Station (m)
Legend
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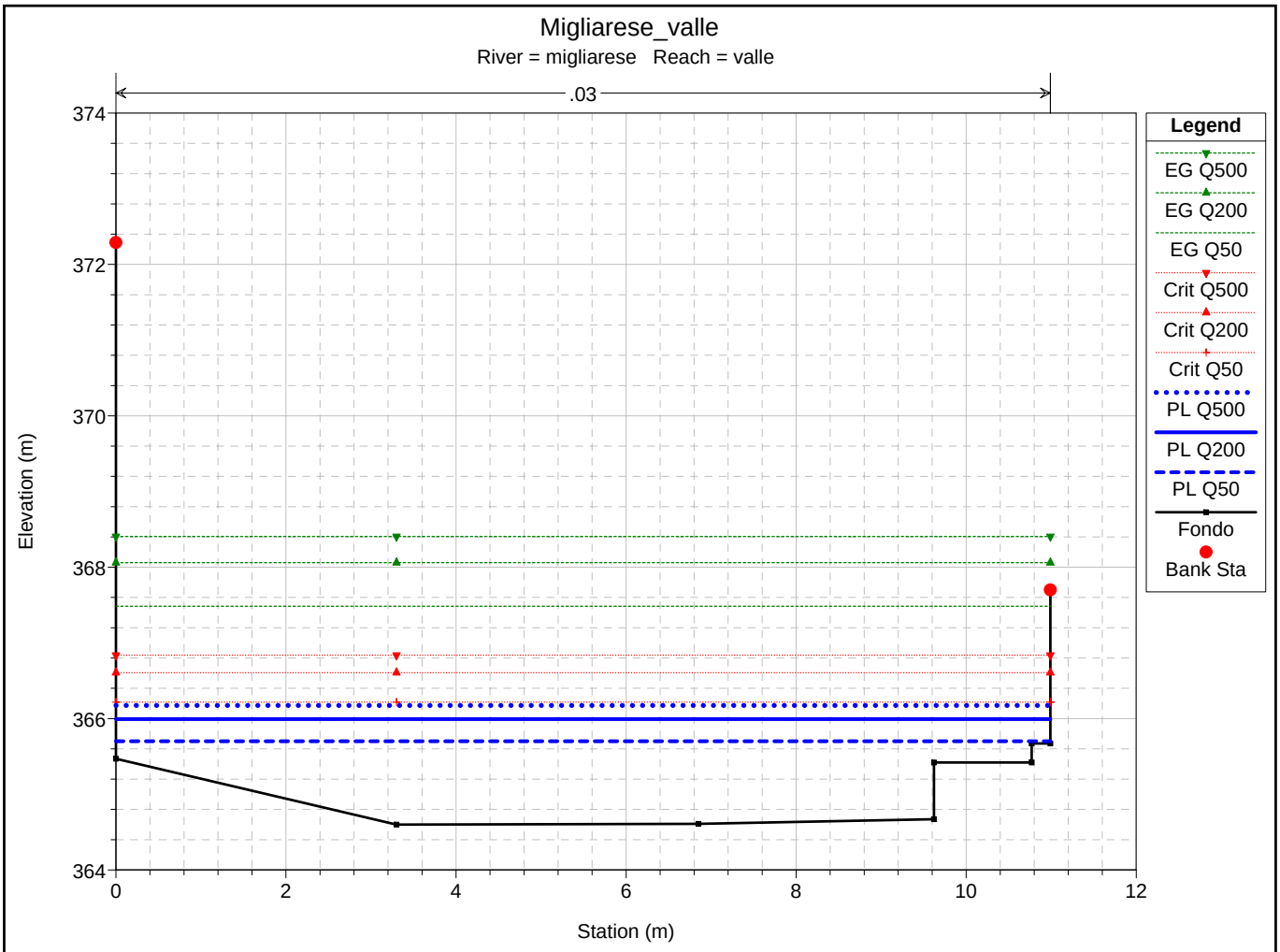
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Migliarese_valle
River = migliarese Reach = valle
.03
Elevation (m)
Station (m)
Legend
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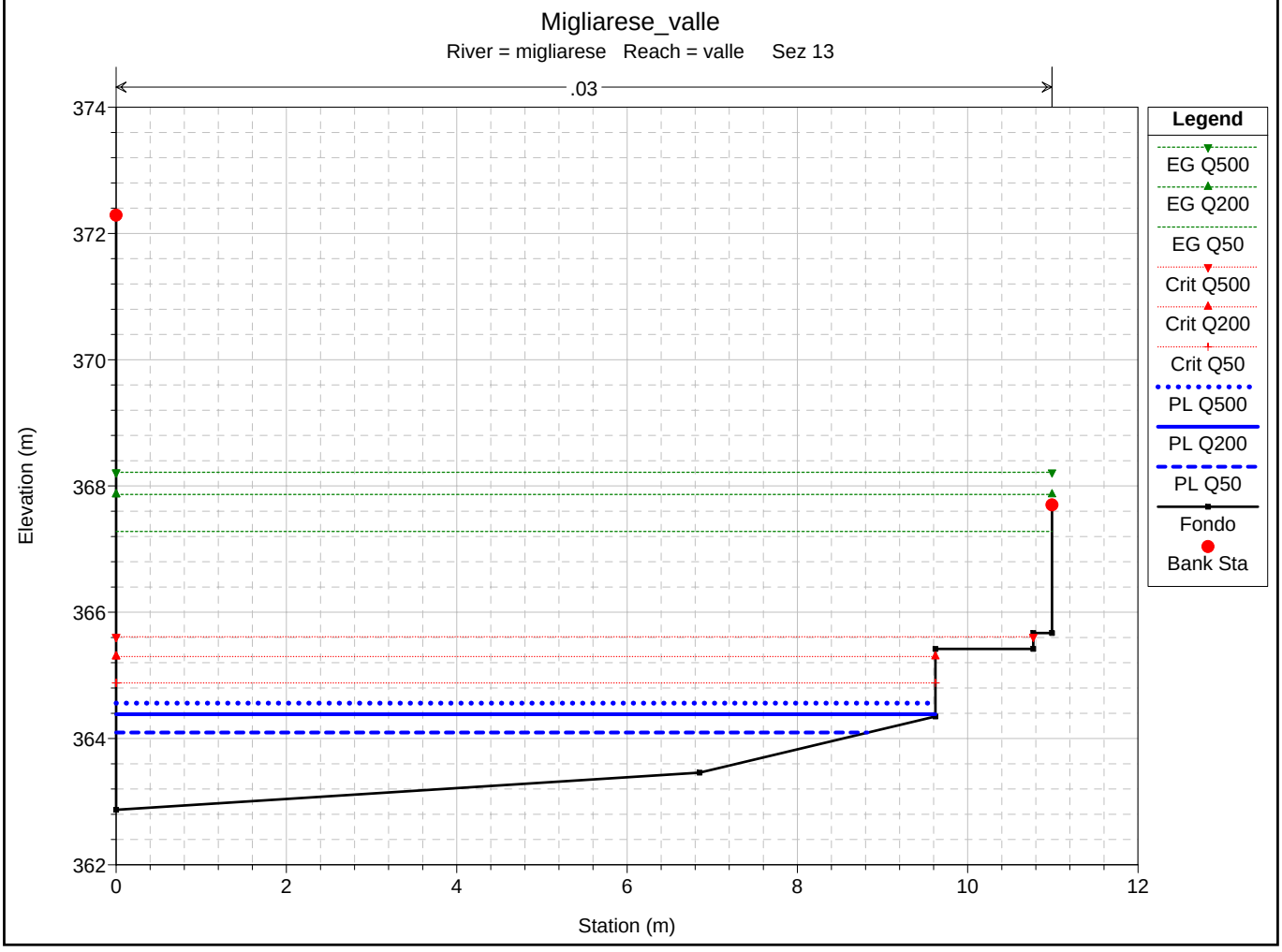
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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River = migliarese Reach = valle Sez 13
.03
Elevation (m)
Station (m)
Legend
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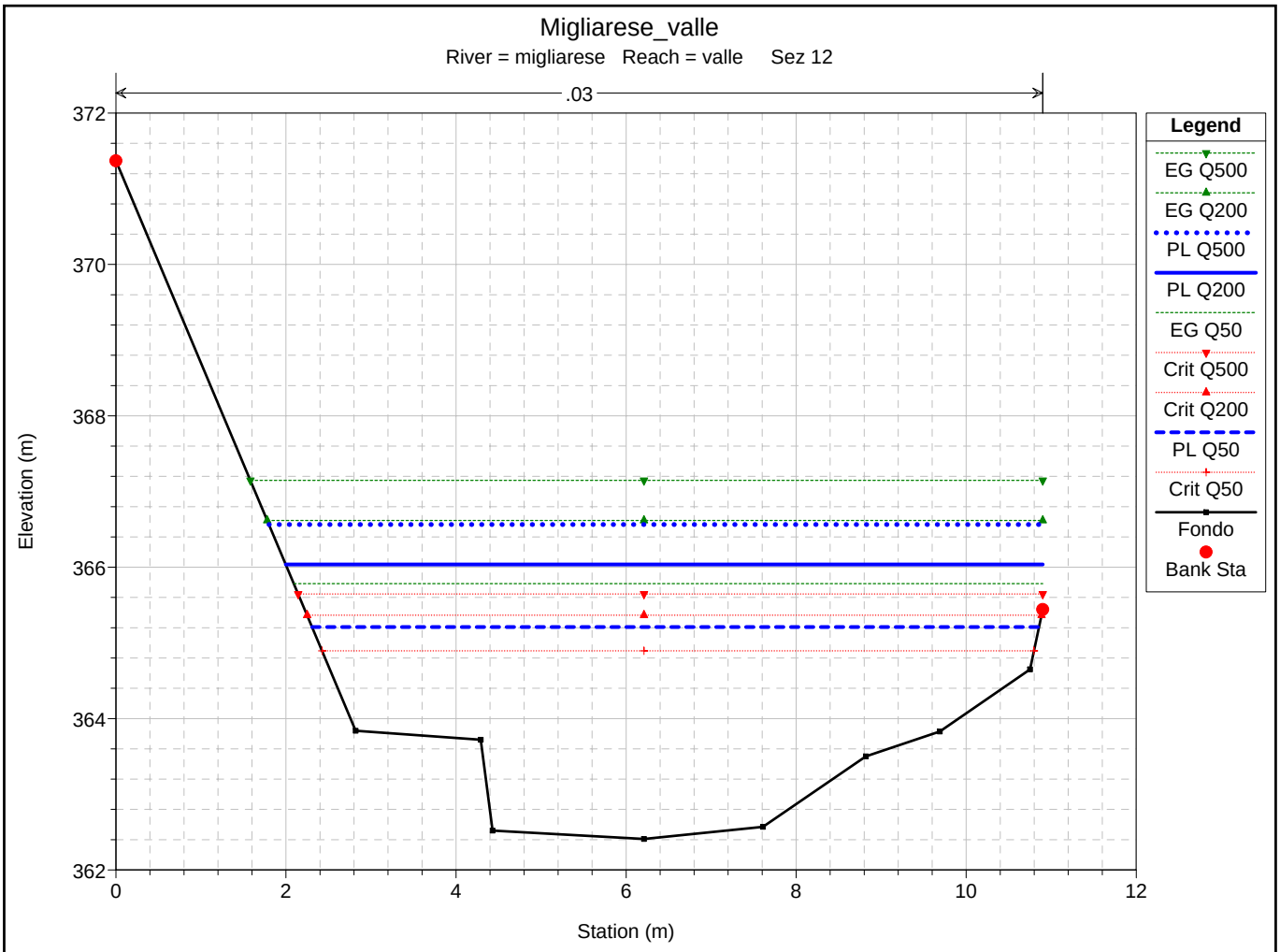
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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River = migliarese Reach = valle Sez 12
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Elevation (m)
Station (m)
Legend
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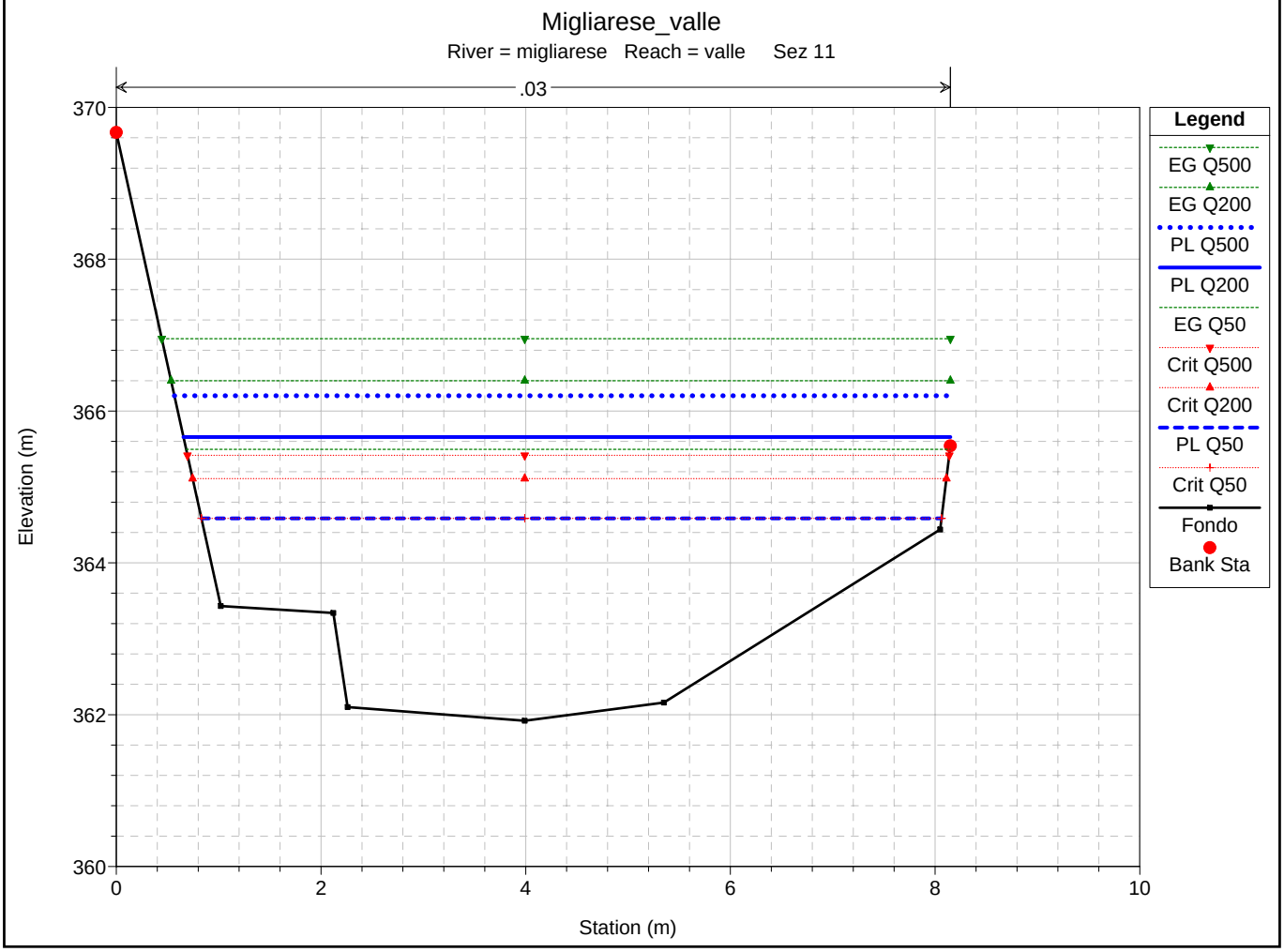
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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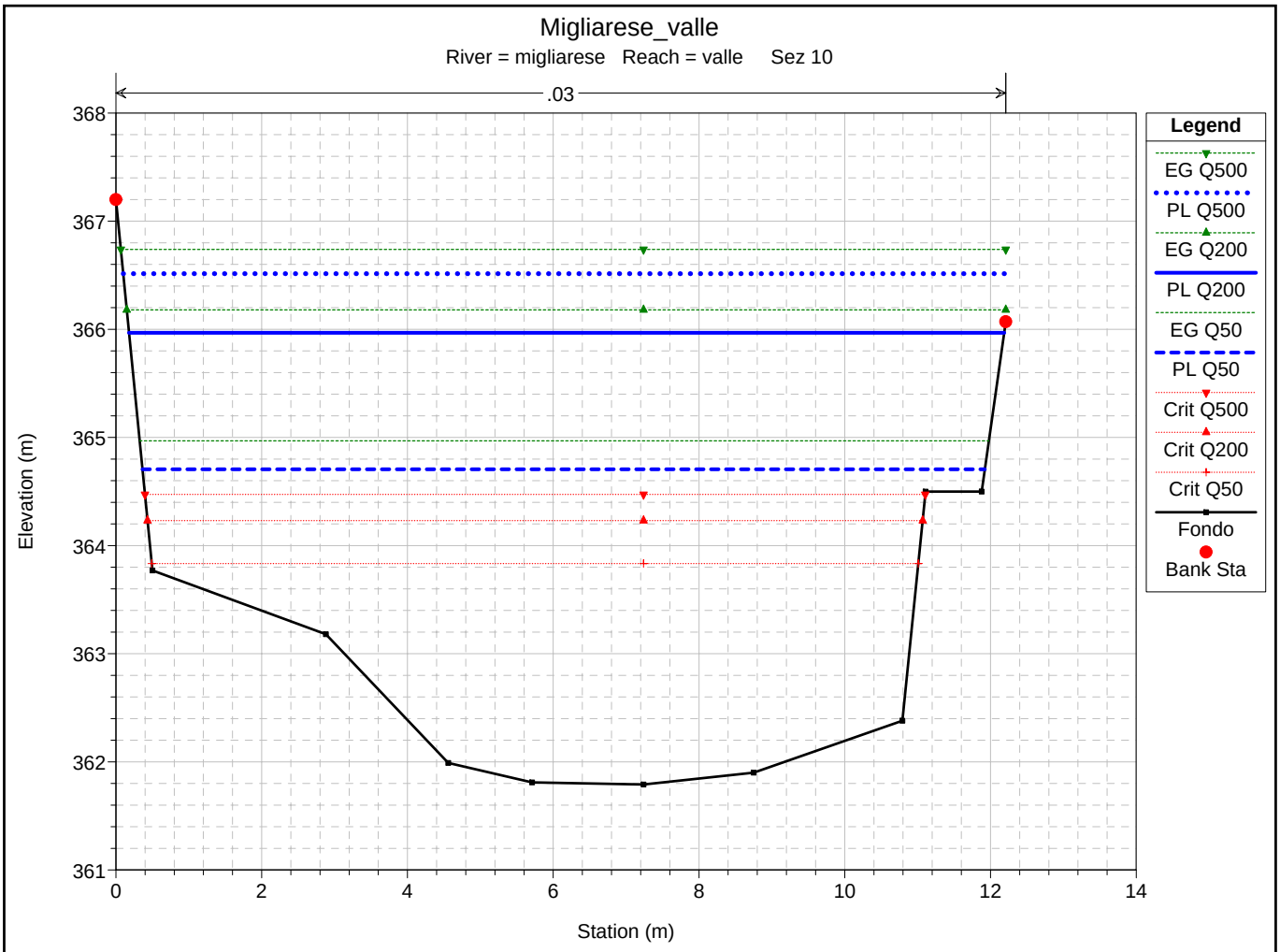
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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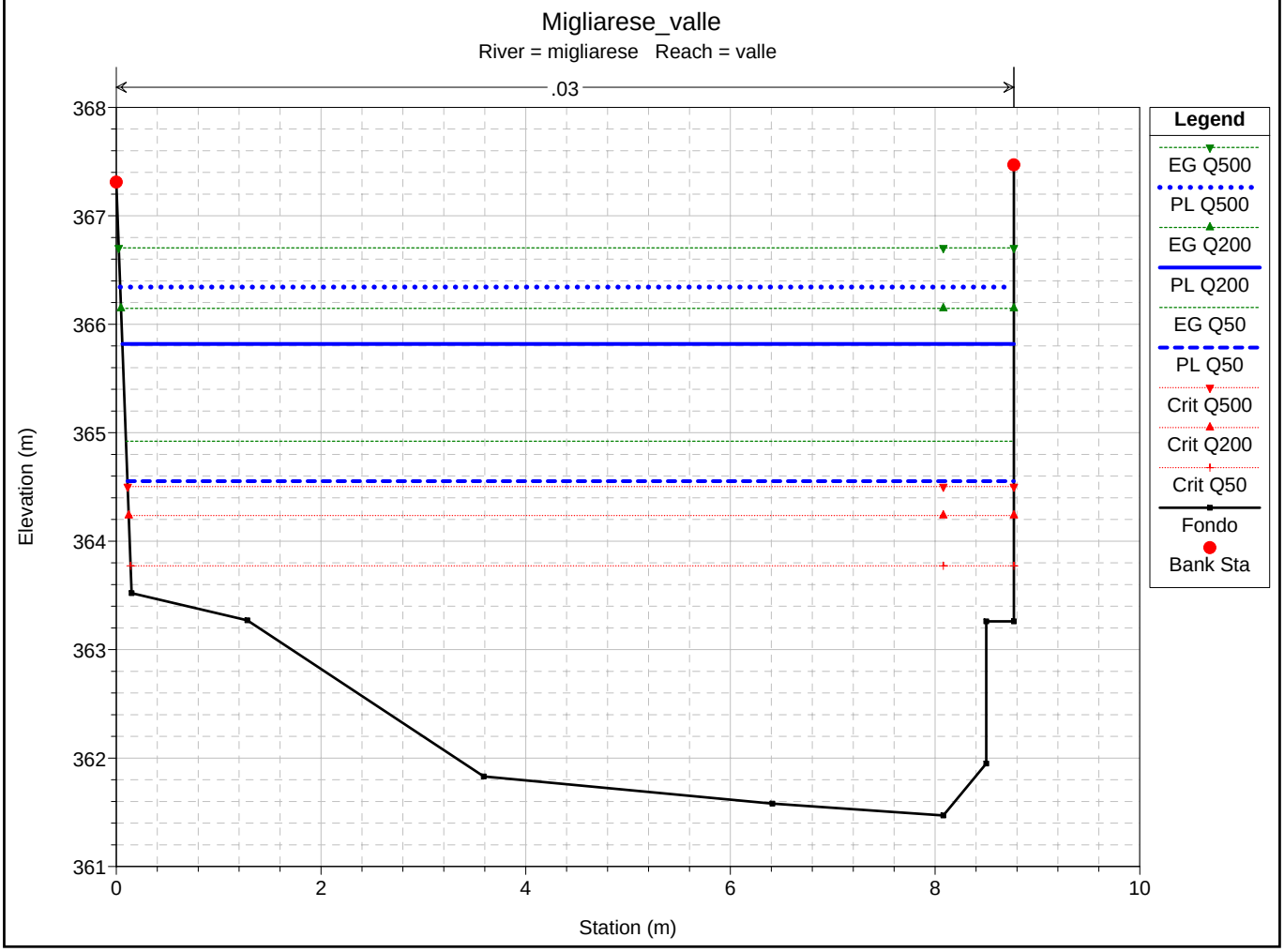
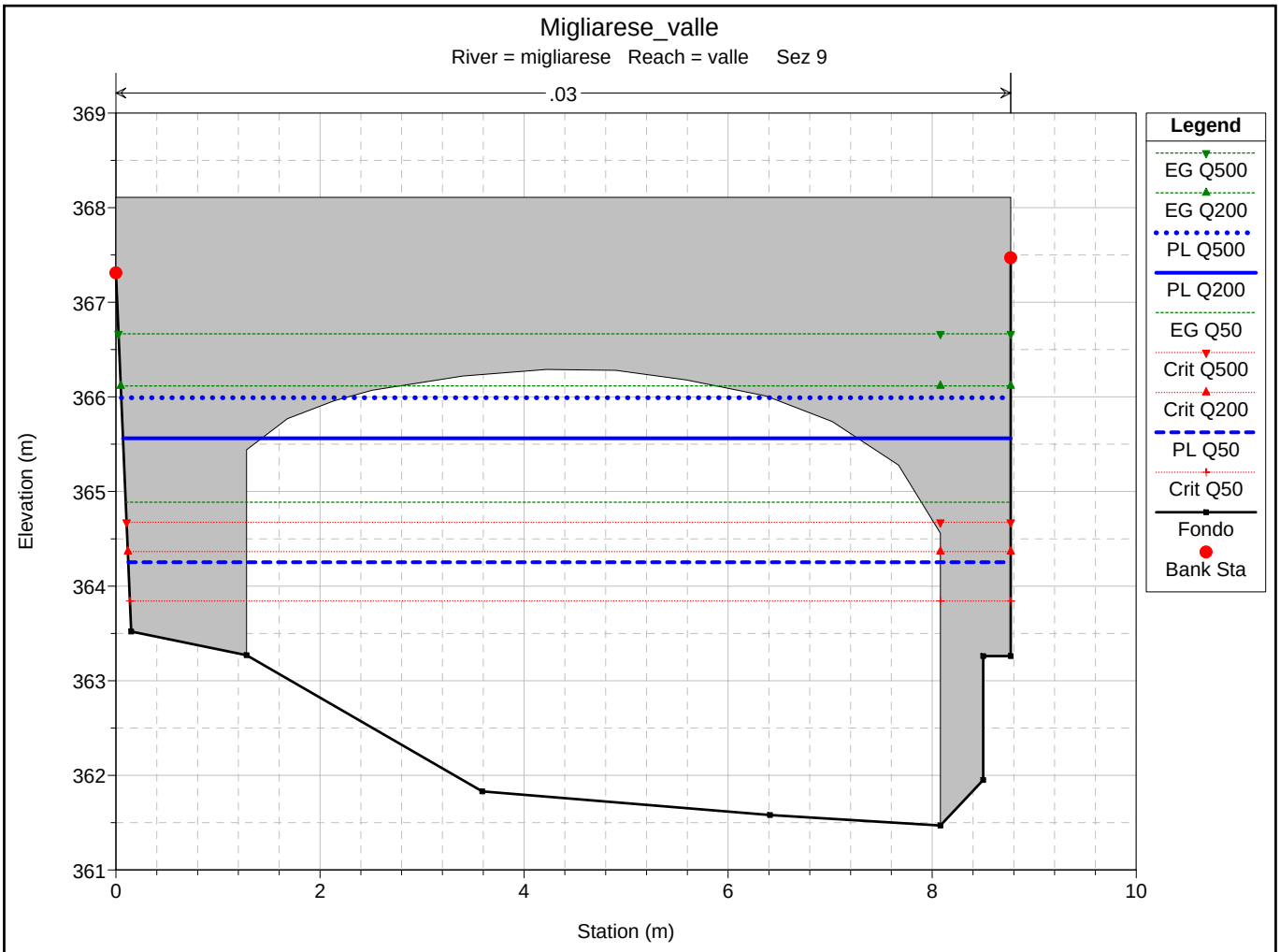
.03
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
368
367
366
365
364
363
362
361
0
2
4
6
8
10
12
14


Migliarese_valle
River = migliarese Reach = valle
.03
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
368
367
366
365
364
363
362
361
0
2
4
6
8
10


Migliarese_valle
River = migliarese Reach = valle Sez 9
.03
Elevation (m)
Station (m)
Legend
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EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
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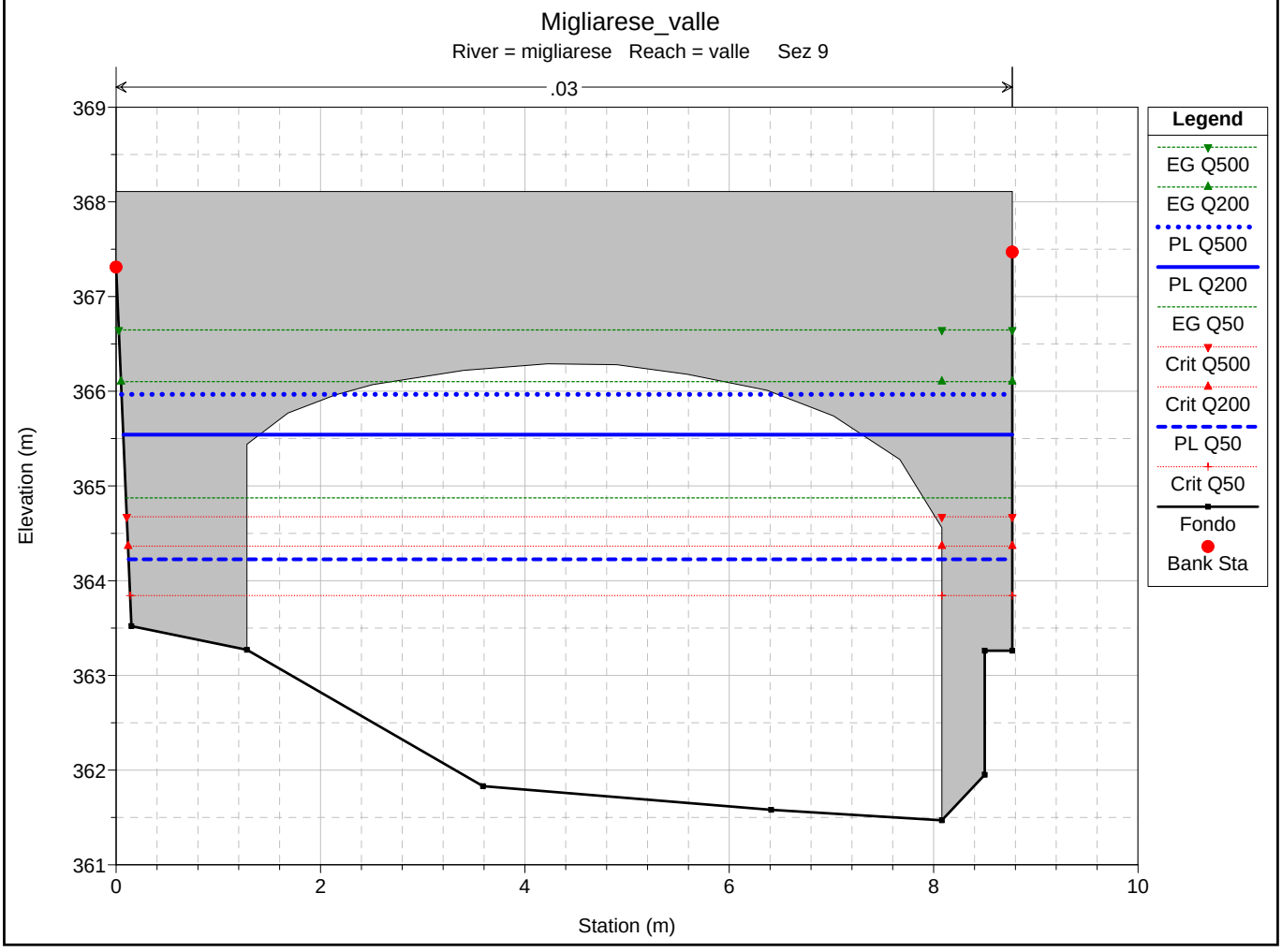
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
Legend
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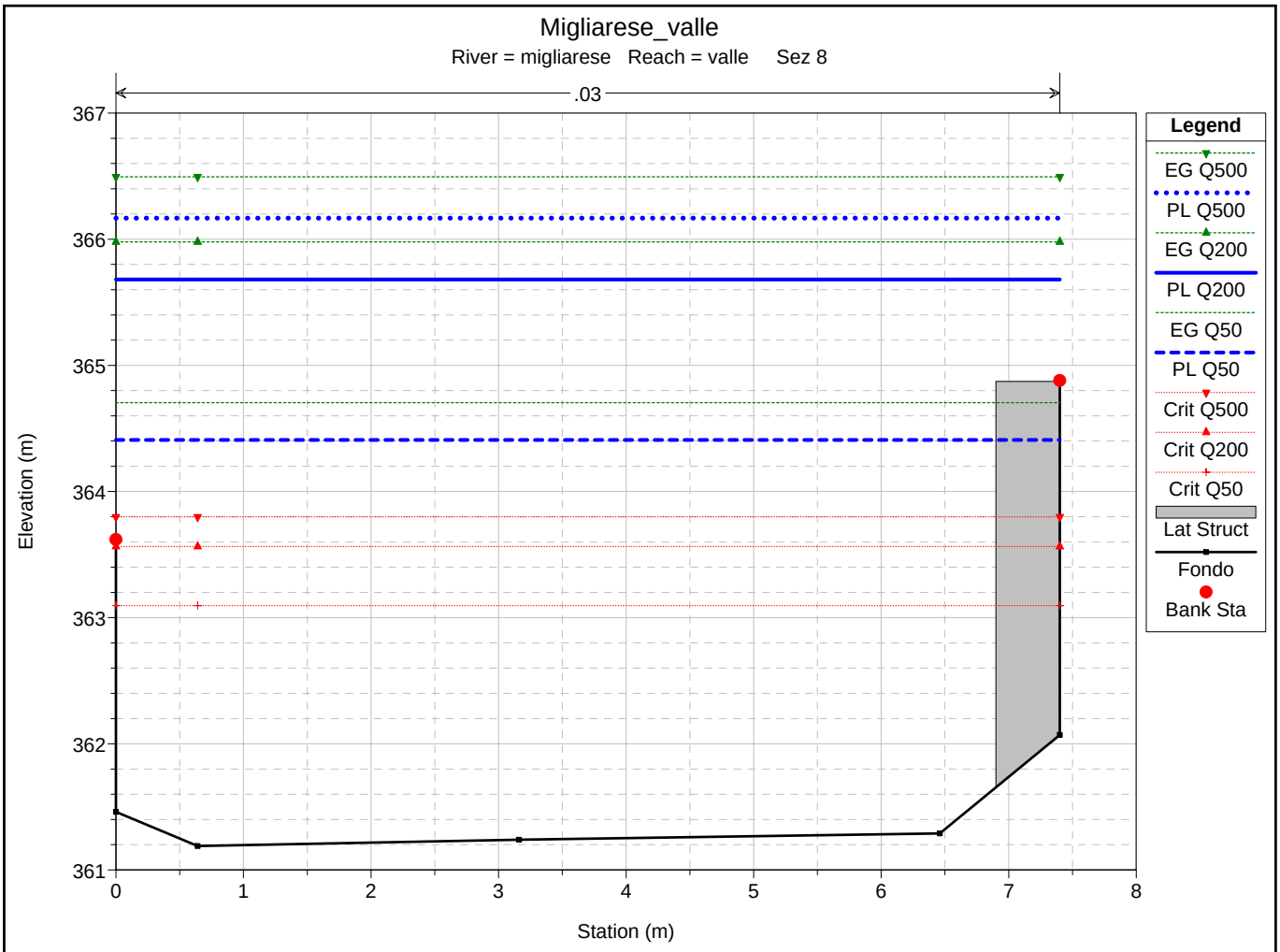
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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.03
Legend
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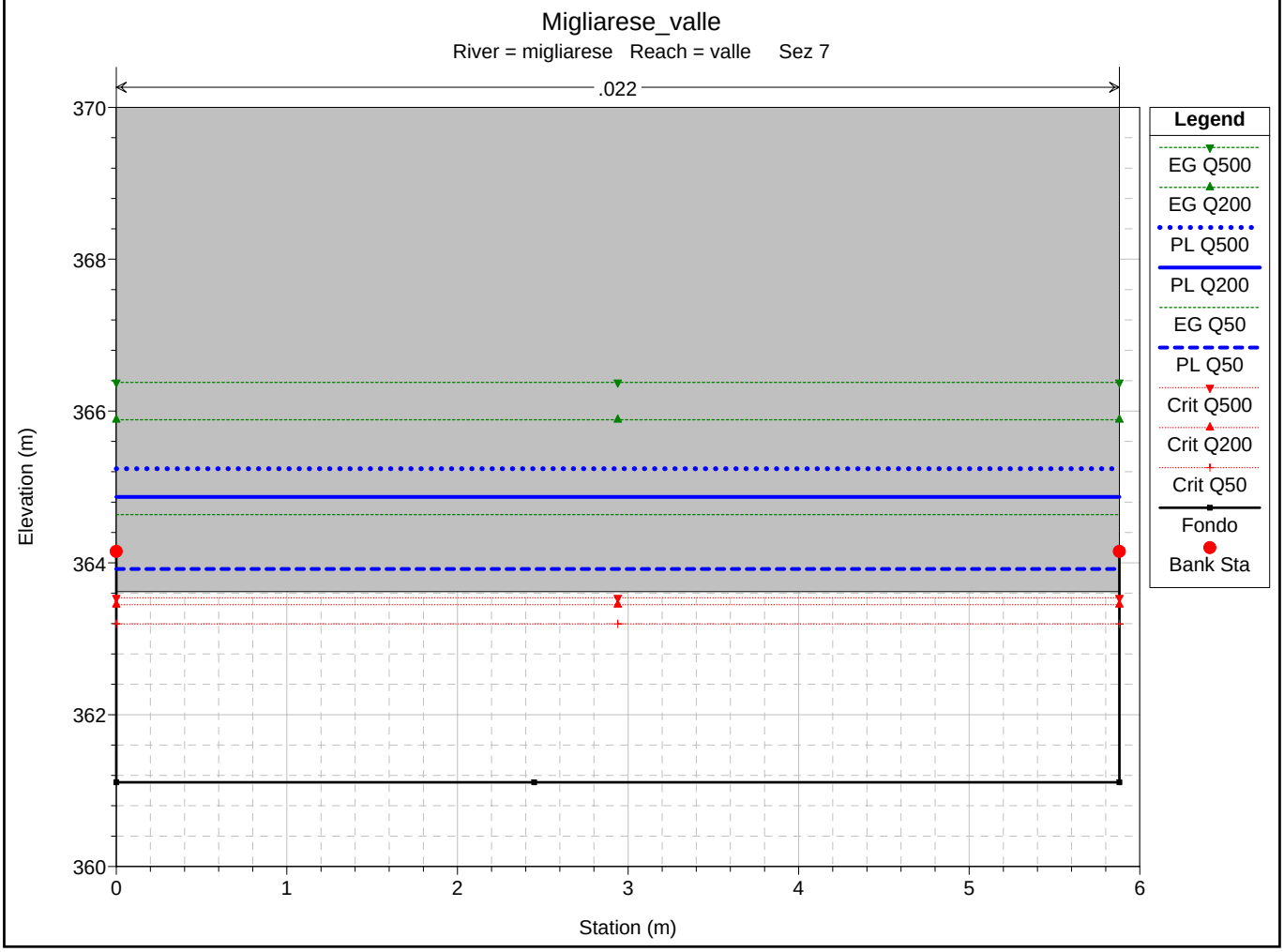
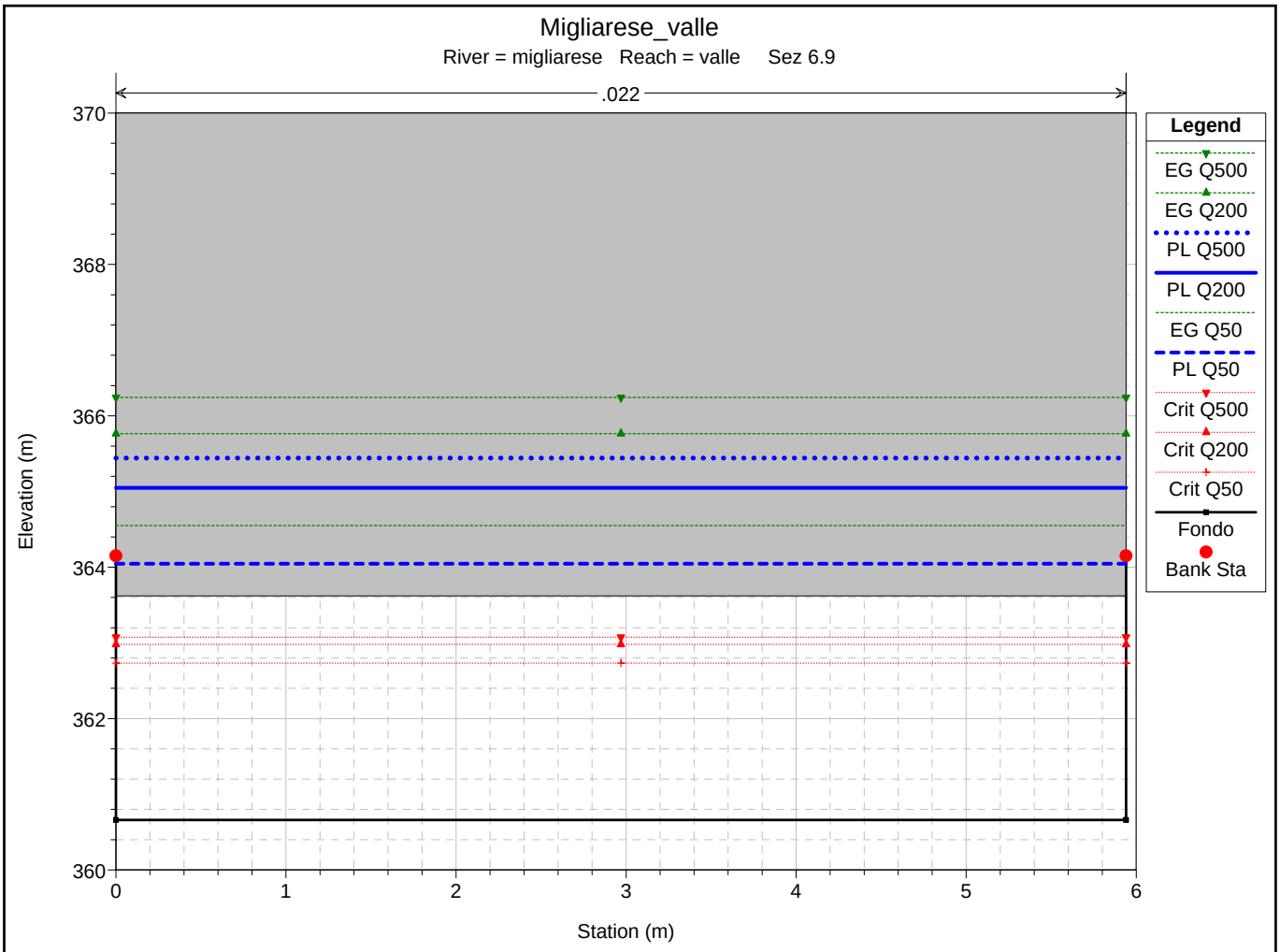
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Lat Struct
Fondo
Bank Sta
Elevation (m)
Station (m)
367
366
365
364
363
362
361
0
1
2
3
4
5
6
7
8


Migliarese_valle
River = migliarese Reach = valle Sez 7
.022
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
370
368
366
364
362
360
0
1
2
3
4
5
6


Migliarese_valle
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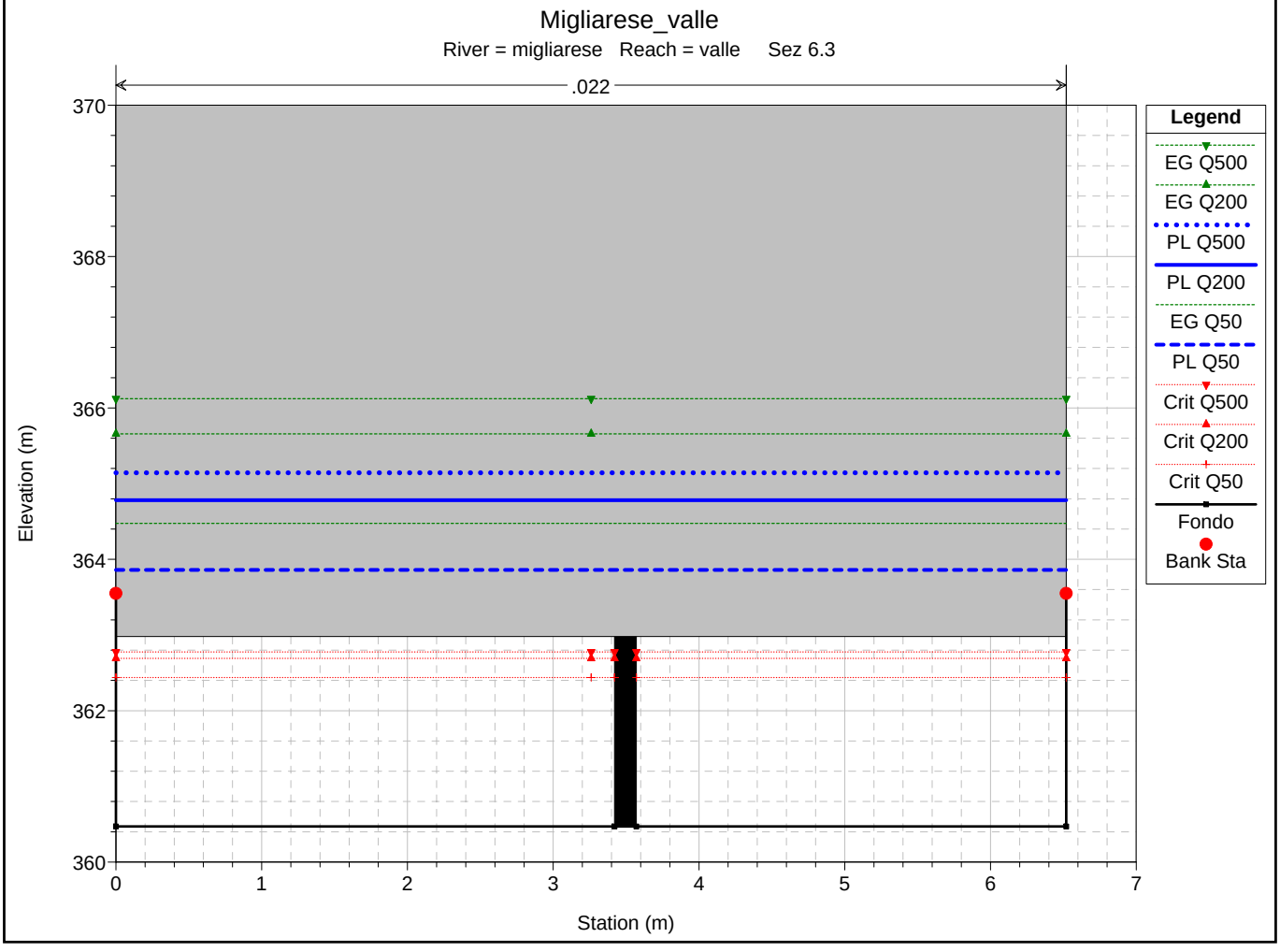
.022
Elevation (m)
370
368
366
364
362
360
0
1
2
3
4
5
6
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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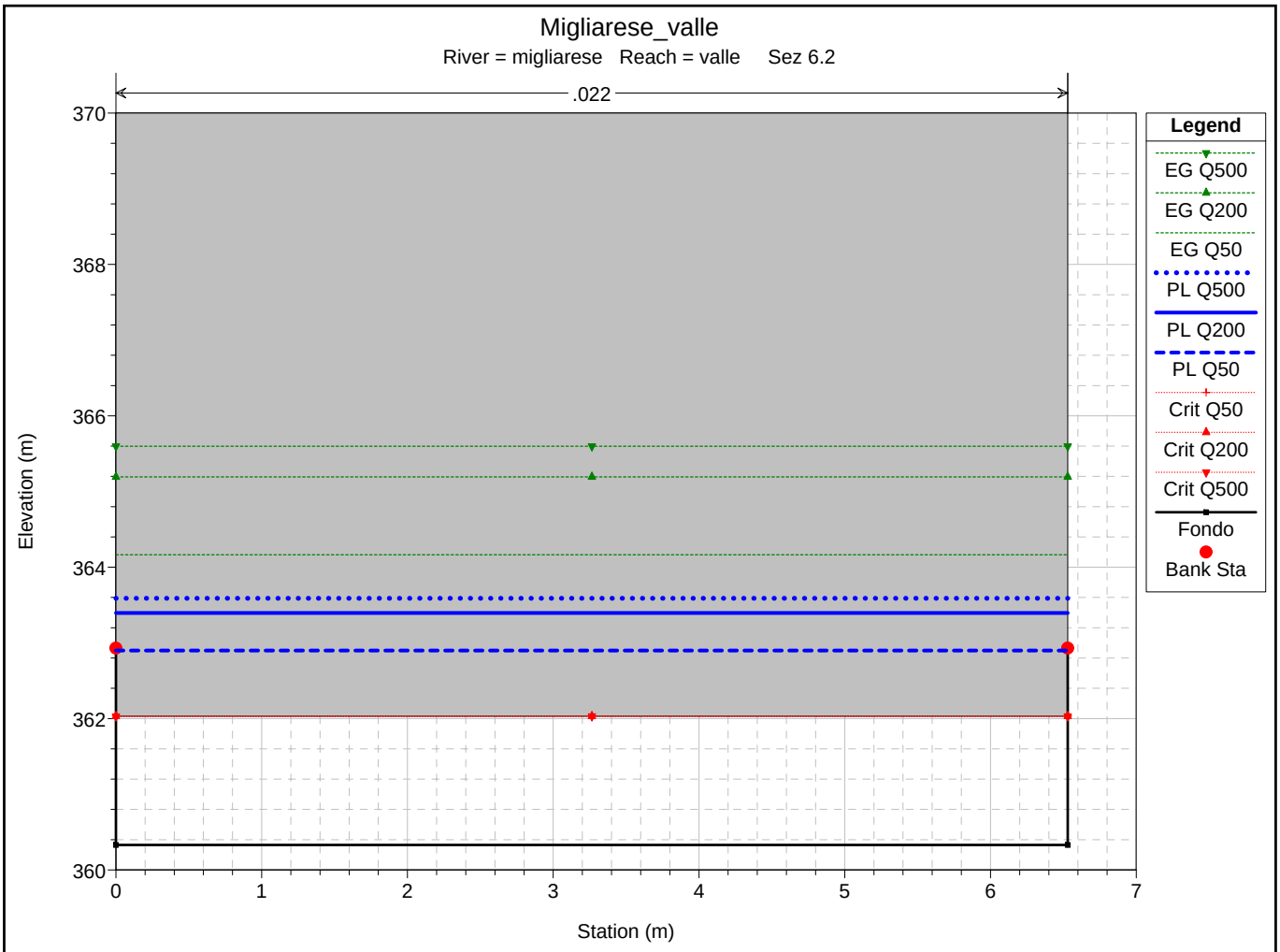
.022
Elevation (m)
370
368
366
364
362
360
0
1
2
3
4
5
6
7
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta


Migliarese_valle
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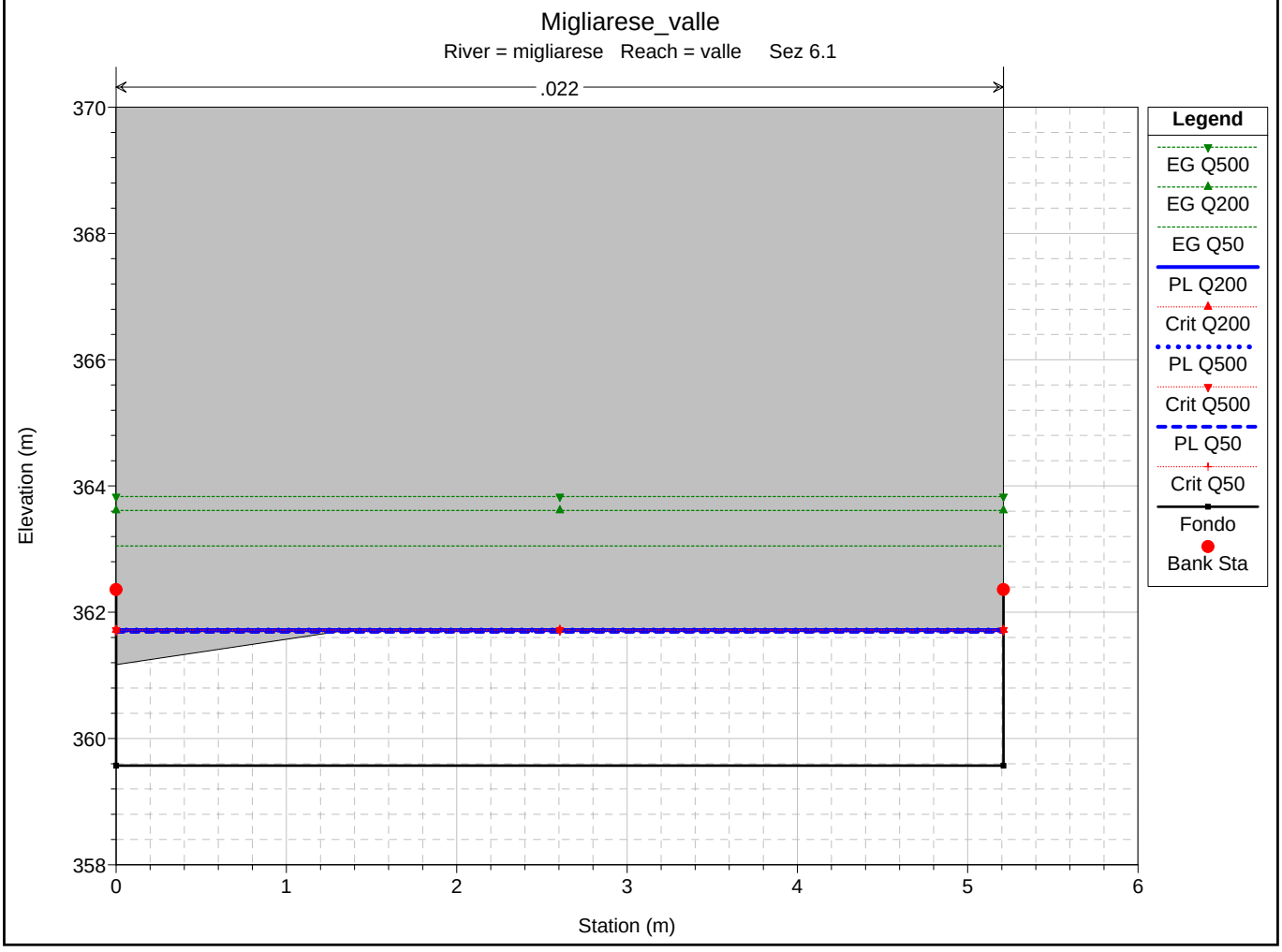
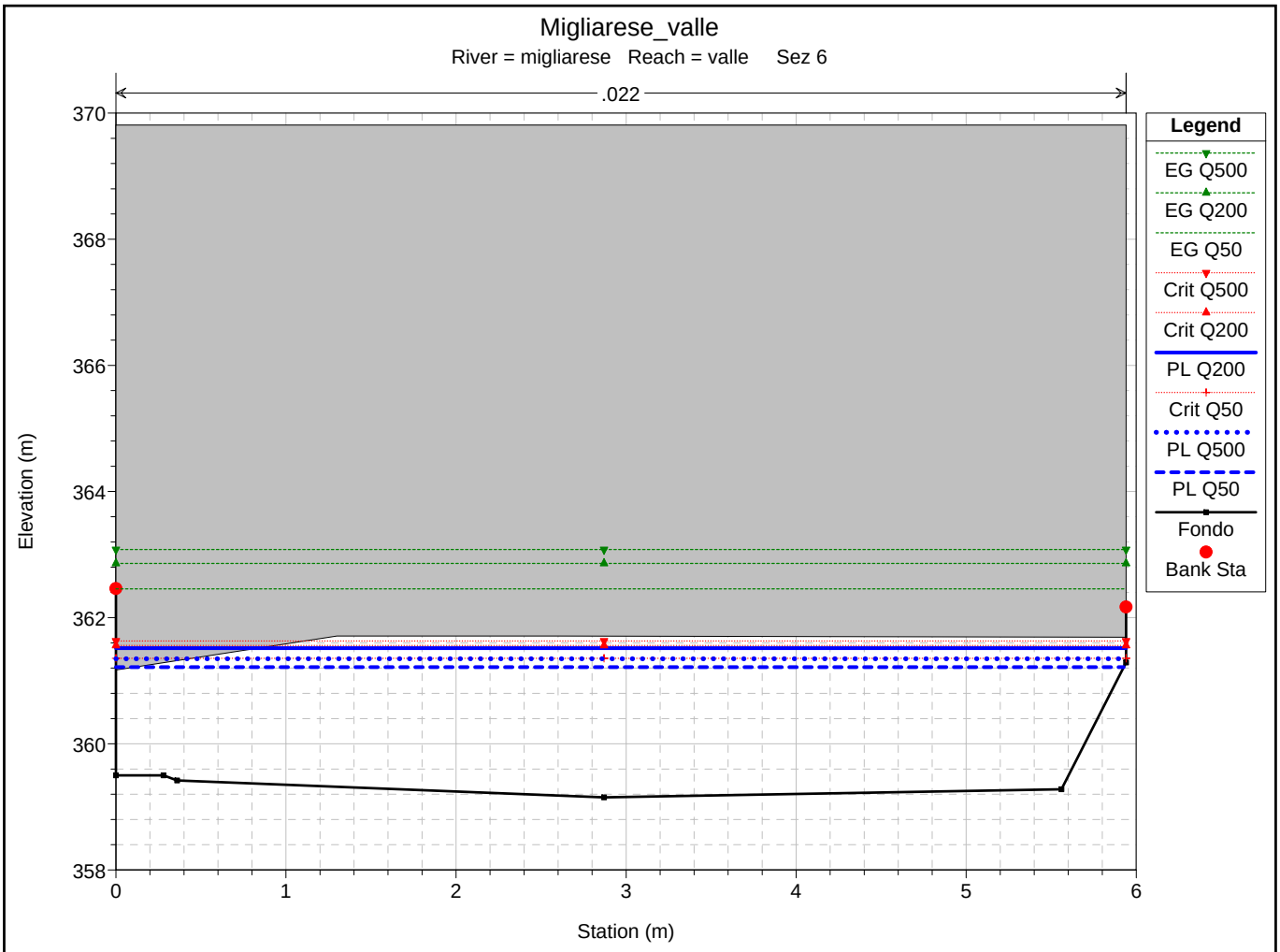
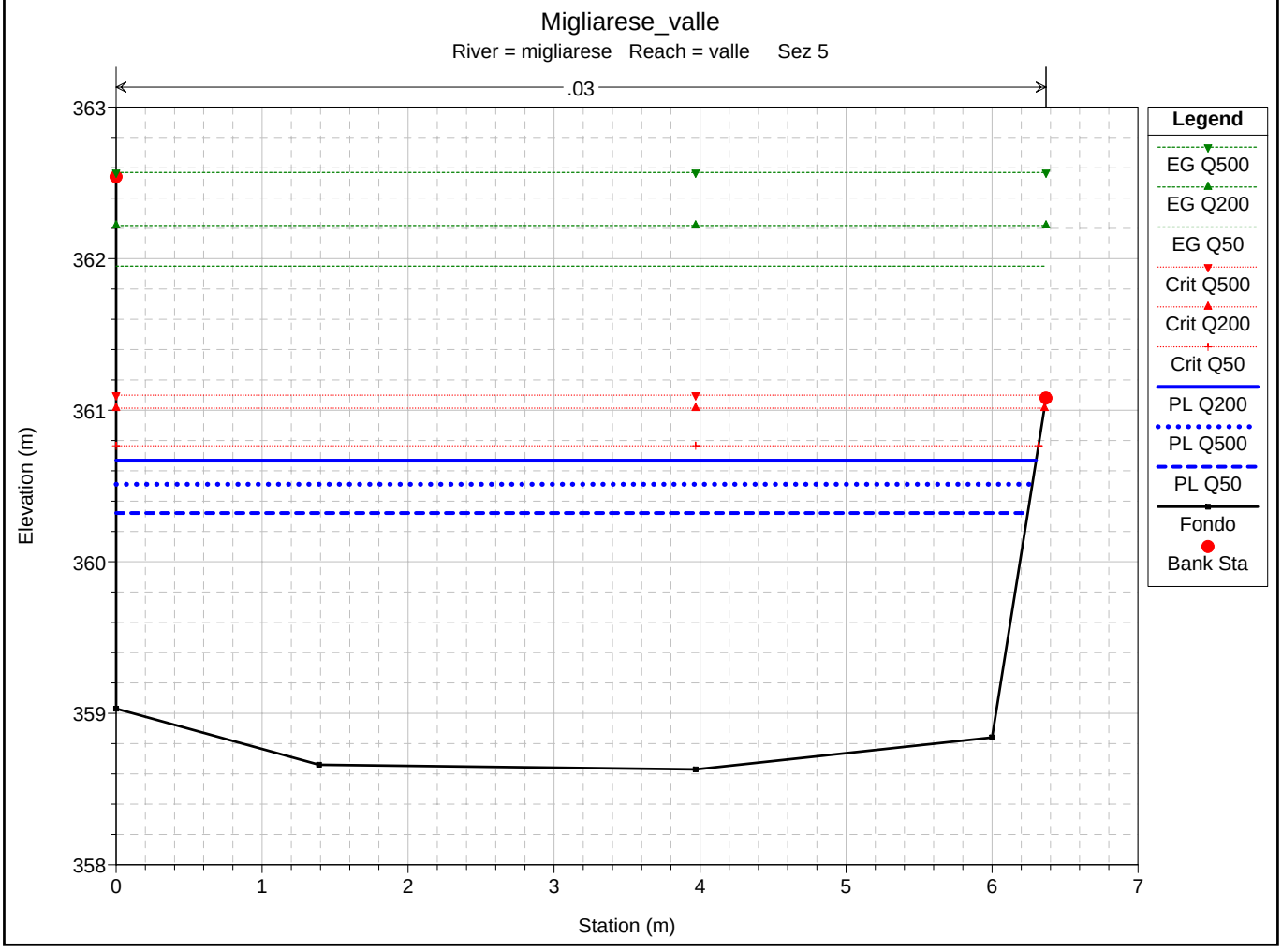
.022
Elevation (m)
370
368
366
364
362
360
0
1
2
3
4
5
6
7
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Crit Q50
Crit Q200
Crit Q500
Fondo
Bank Sta

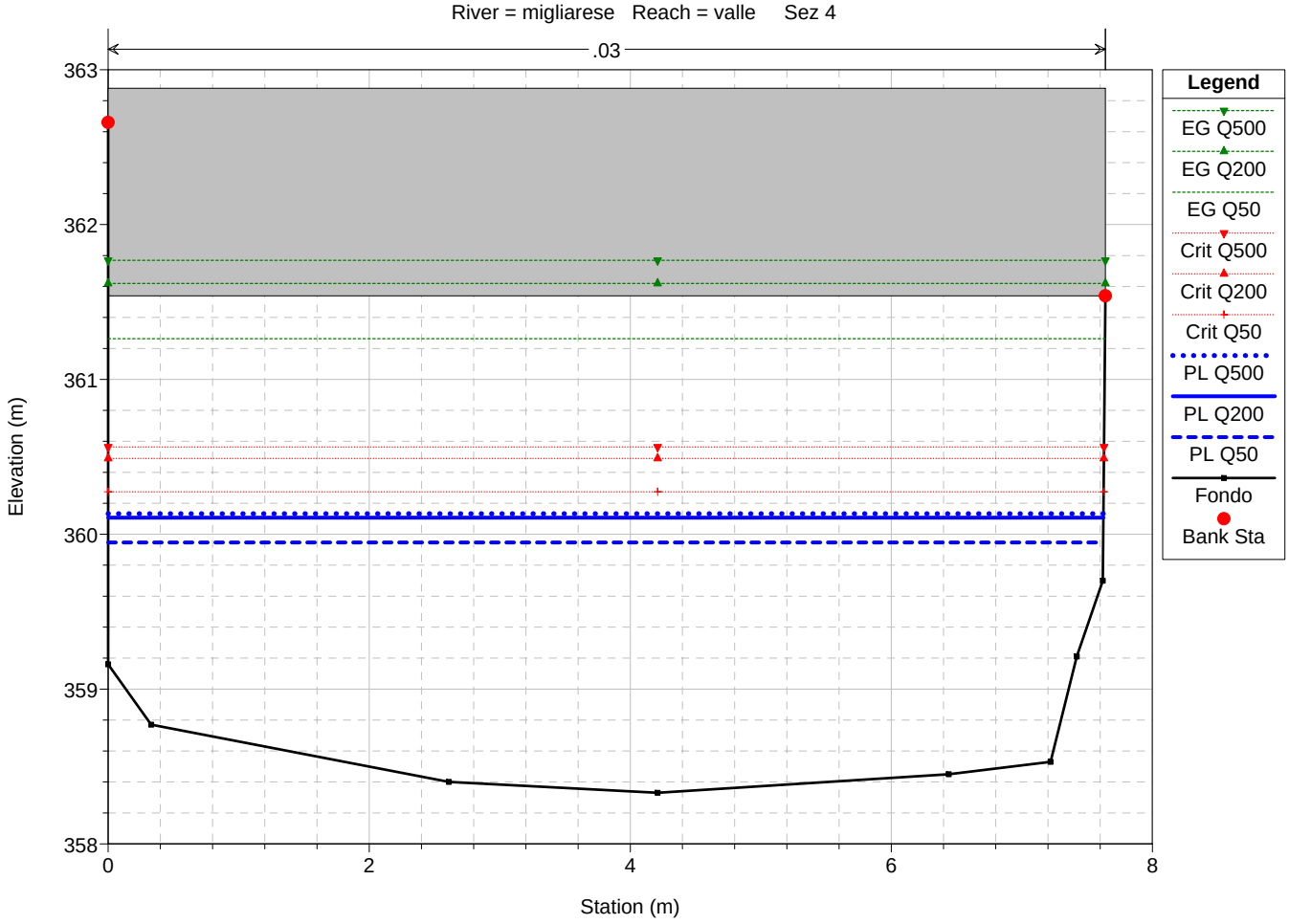

Migliarese_valle
River = migliarese Reach = valle Sez 6.1
.022
Elevation (m)
370
368
366
364
362
360
358
0
1
2
3
4
5
6
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q200
Crit Q200
PL Q500
Crit Q500
PL Q50
Crit Q50
Fondo
Bank Sta


Migliarese_valle
River = migliarese Reach = valle Sez 6
.022
Elevation (m)
370
368
366
364
362
360
358
0
1
2
3
4
5
6
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q200
Crit Q50
PL Q500
PL Q50
Fondo
Bank Sta


Migliarese_valle
River = migliarese Reach = valle Sez 5
.03
Elevation (m)
363
362
361
360
359
358
0
1
2
3
4
5
6
7
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q200
PL Q500
PL Q50
Fondo
Bank Sta

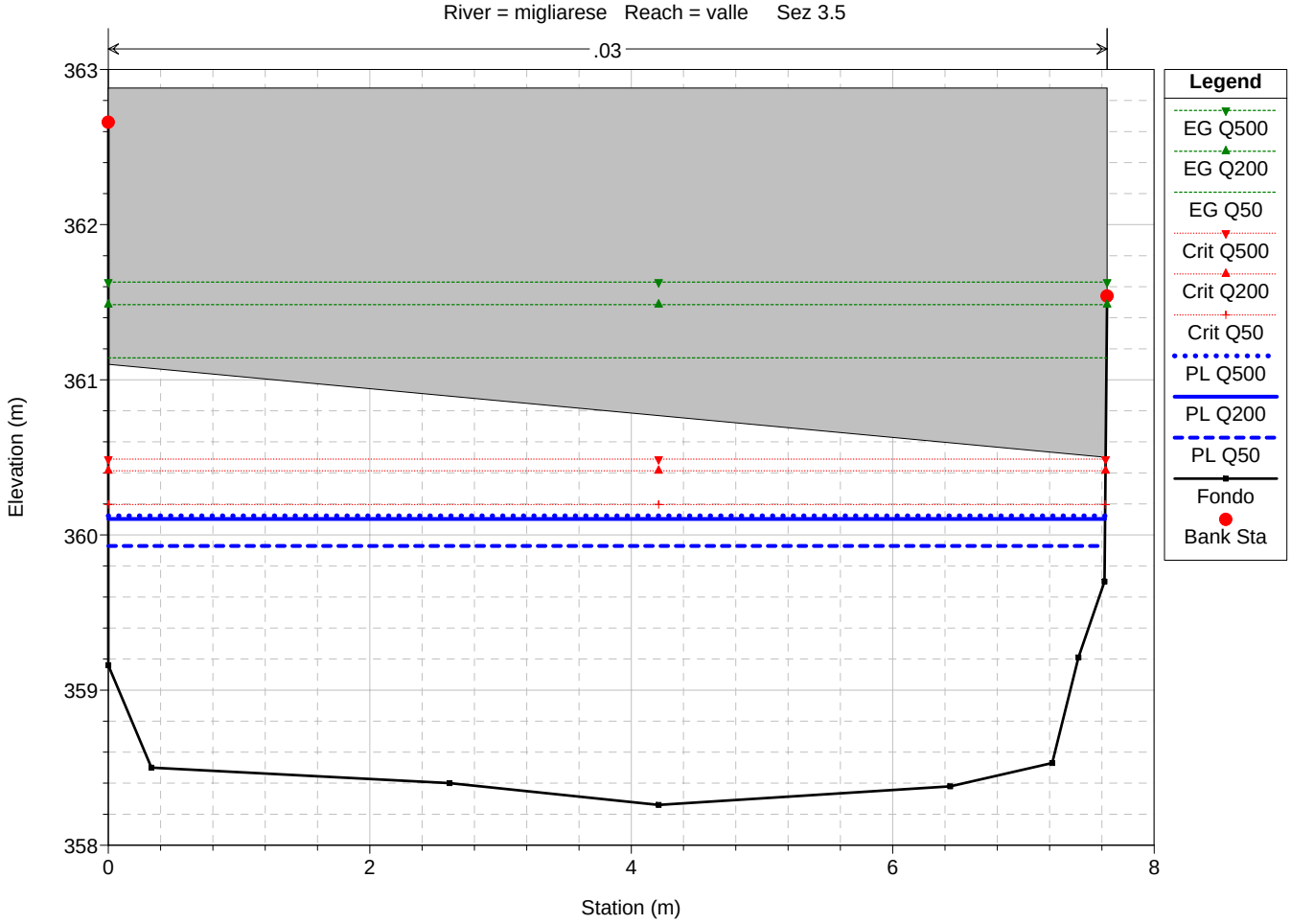
Migliarese_valle

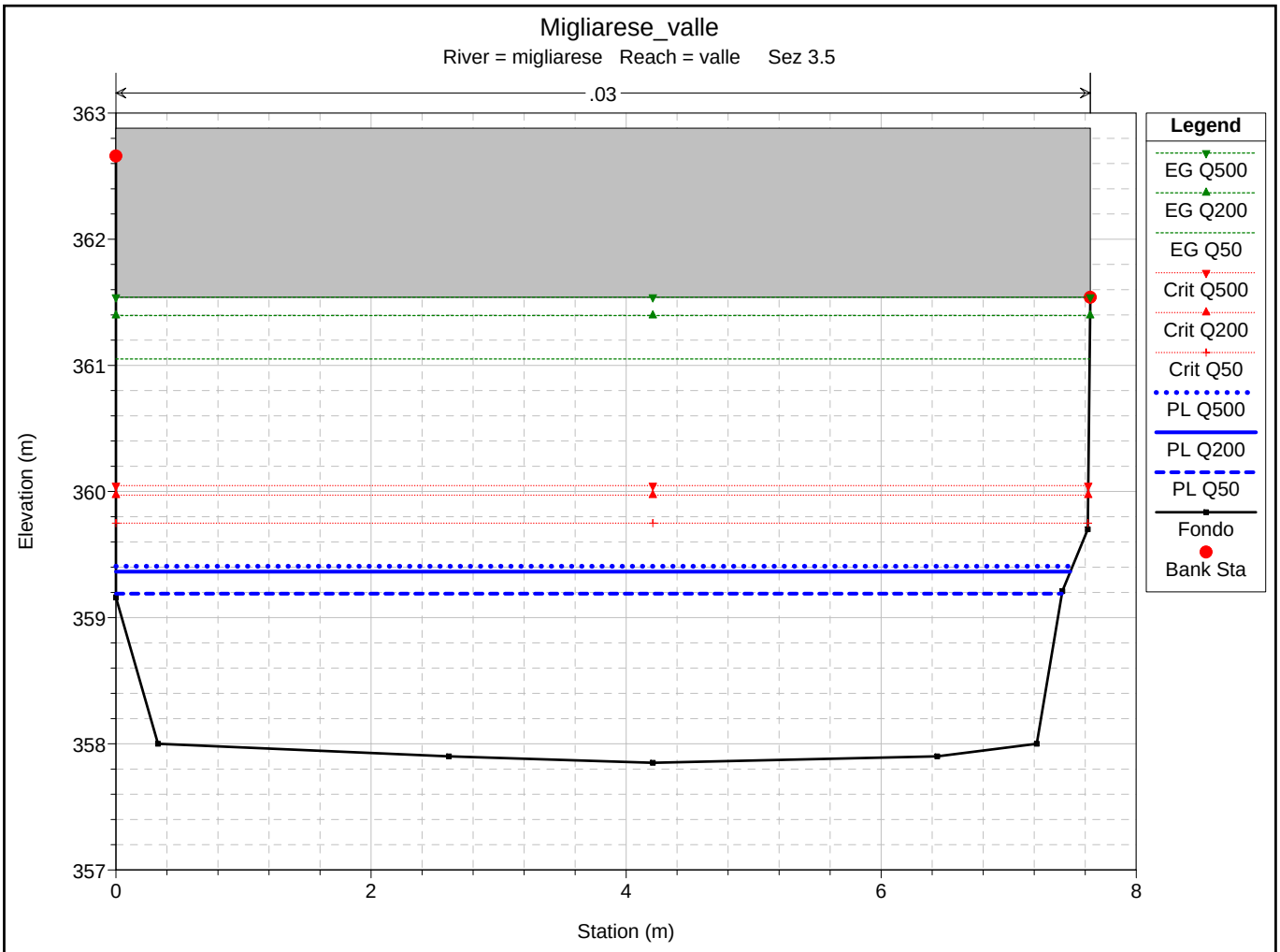
River = migliarese Reach = valle Sez 4



Migliarese_valle

River = migliarese Reach = valle Sez 3.5




Migliarese_valle
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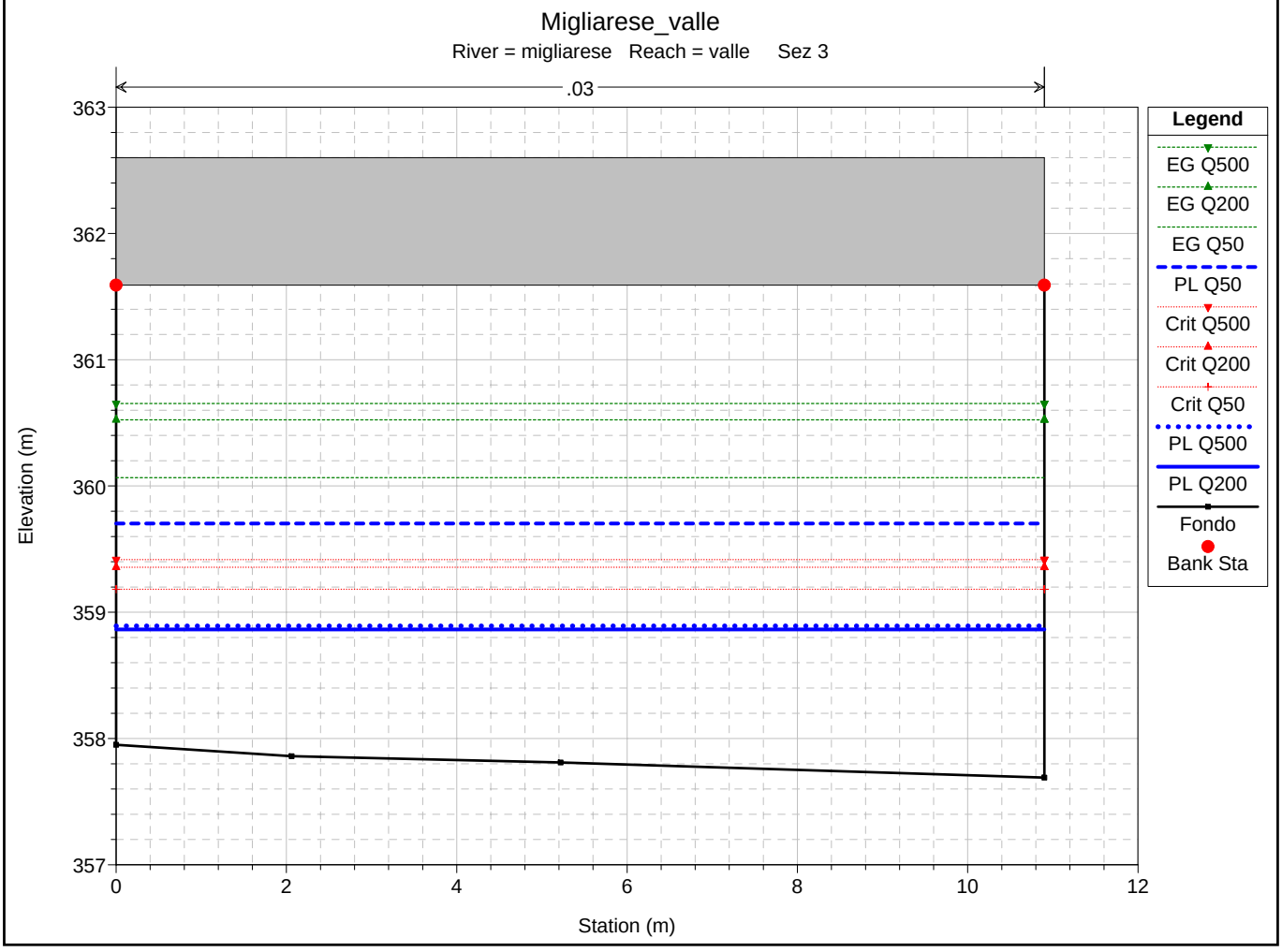
.03
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
363
362
361
360
359
358
357
0
2
4
6
8


Migliarese_valle
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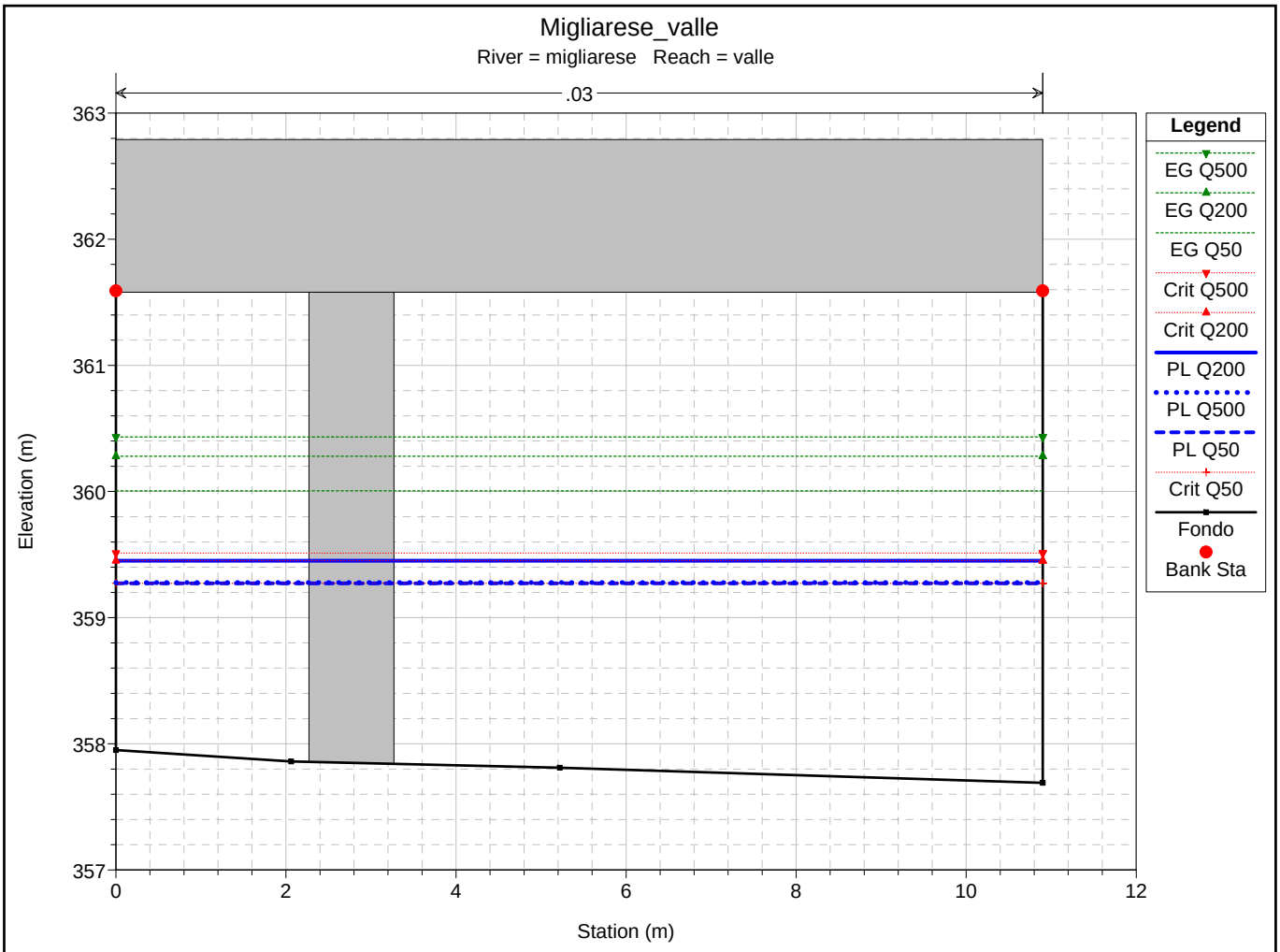
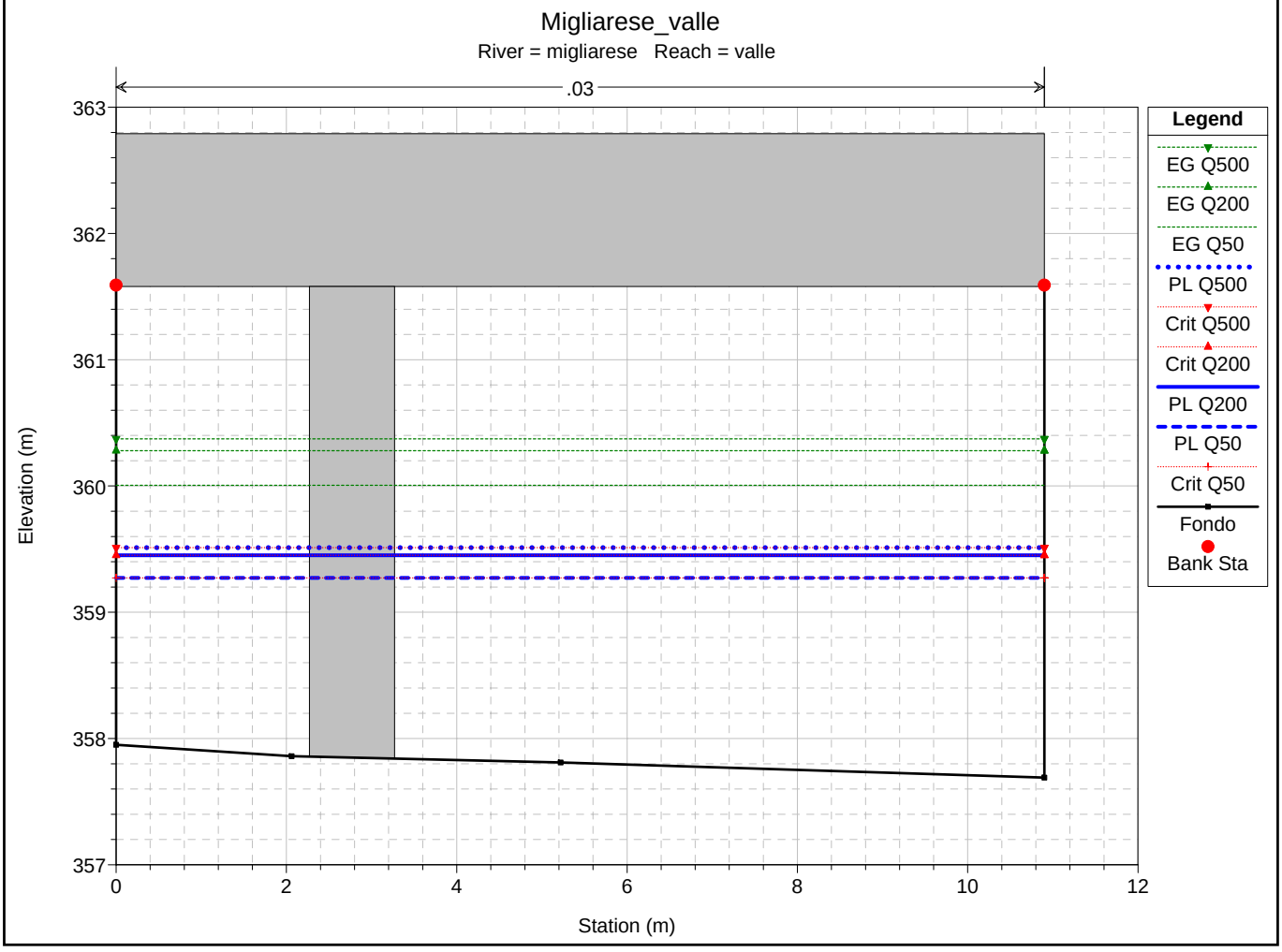
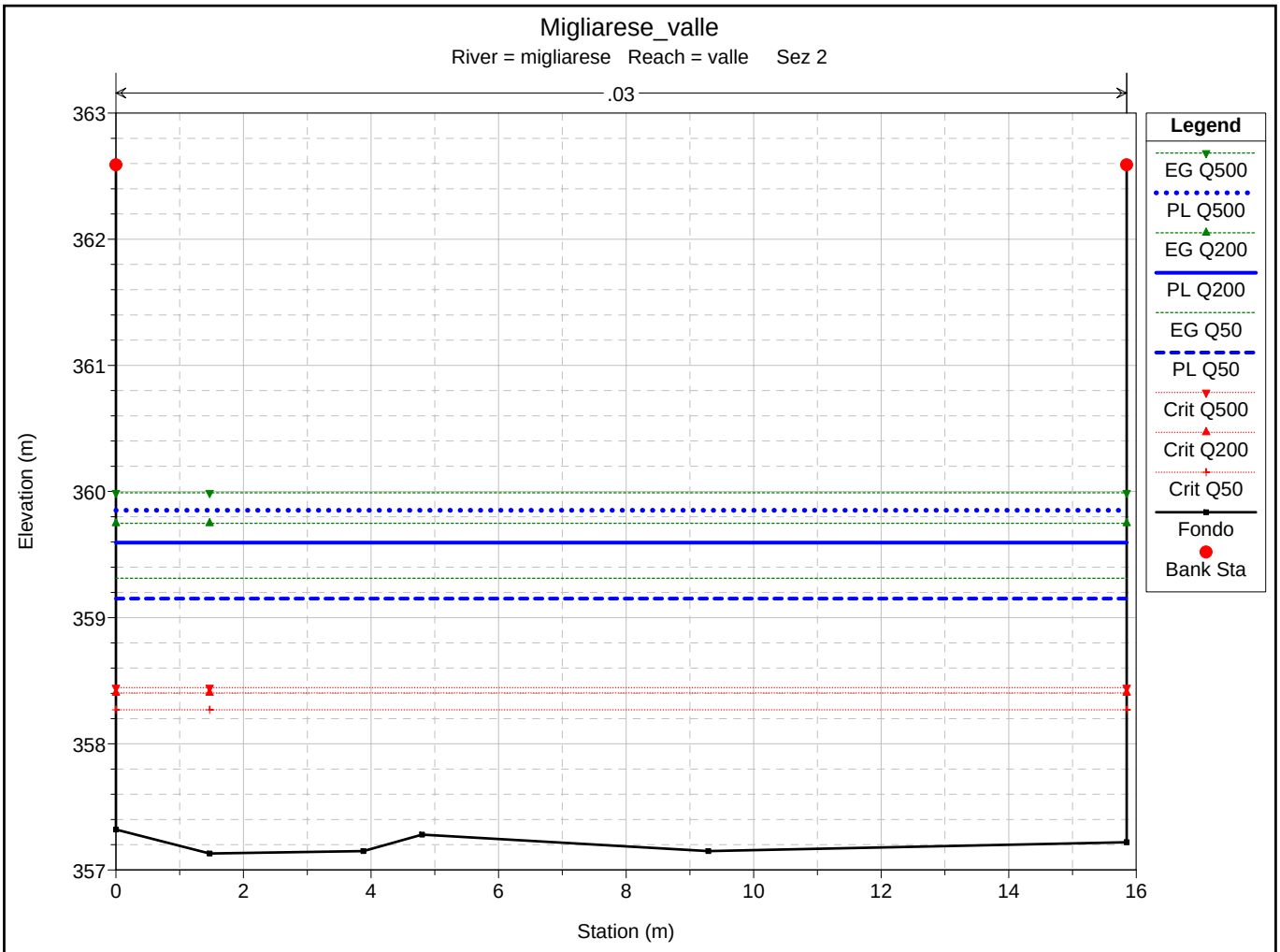
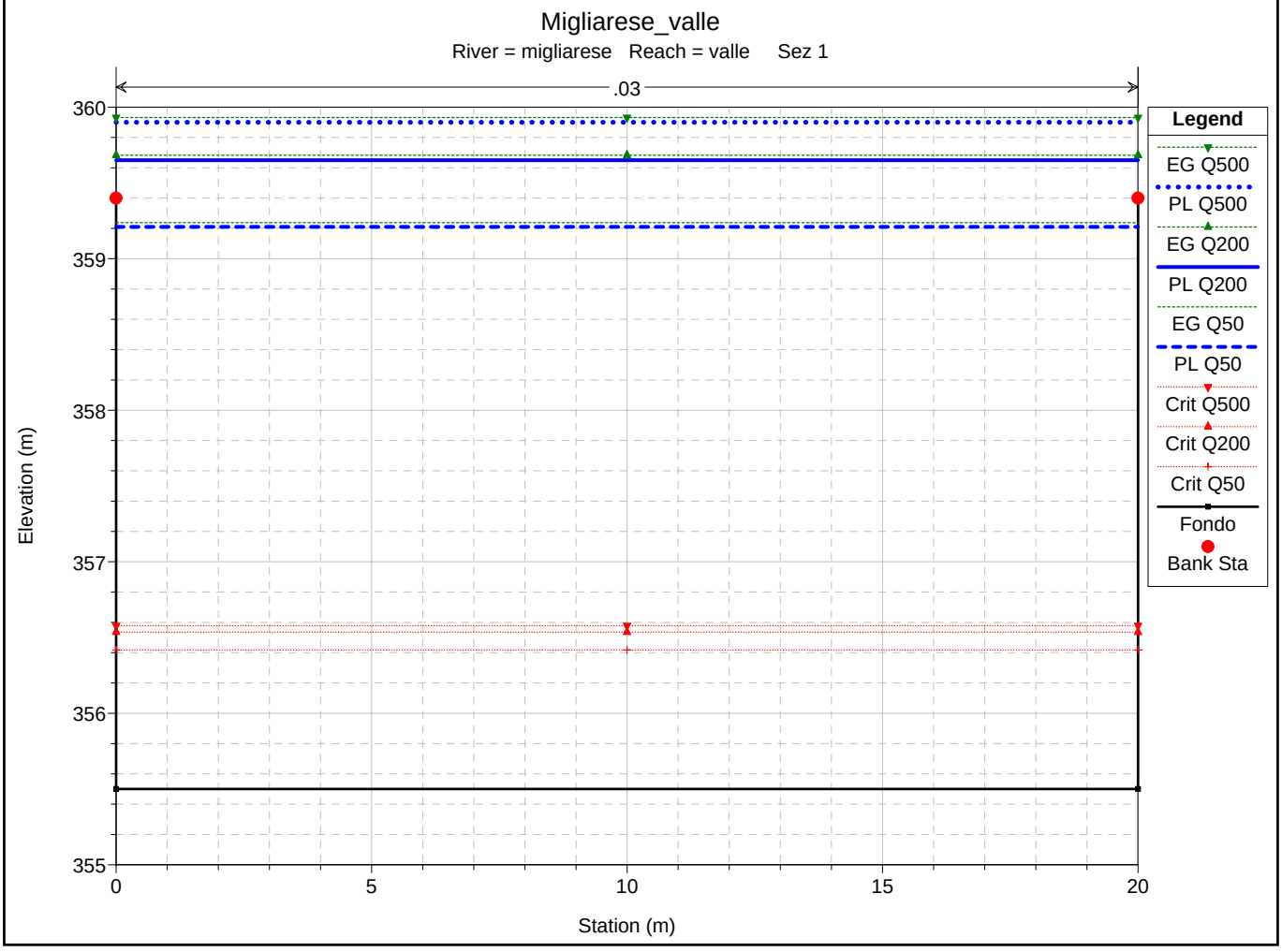
.03
Legend
EG Q500
EG Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
Fondo
Bank Sta
Elevation (m)
Station (m)
363
362
361
360
359
358
357
0
2
4
6
8
10
12


Migliarese_valle
River = migliarese Reach = valle
.03
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q200
PL Q500
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
363
362
361
360
359
358
357
0
2
4
6
8
10
12


Migliarese_valle
River = migliarese Reach = valle
.03
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
363
362
361
360
359
358
357
0
2
4
6
8
10
12


Migliarese_valle
River = migliarese Reach = valle Sez 2
.03
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
363
362
361
360
359
358
357
0
2
4
6
8
10
12
14
16


Migliarese_valle
River = migliarese Reach = valle Sez 1
.03
Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
360
359
358
357
356
355
0
5
10
15
20

HEC-RAS Plan: 02_Feb_08 River: migliarese Reach: monte

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
monte	28.1 sez.28	Q50	55.30	375.59	377.62	377.72	0.10	378.19	0.57	377.62	378.31	0.009835	3.68	15.01	10.87	1.00
monte	28.1 sez.28	Q200	80.00	375.59	378.65	377.72	-0.93	378.19	-0.46	378.01	379.12	0.003900	3.05	26.25	10.99	0.63
monte	28.1 sez.28	Q500	96.30	375.59	378.86	377.72	-1.14	378.19	-0.67	378.24	379.44	0.004420	3.37	28.58	10.99	0.67
monte	28. sez.28	Q50	55.30	374.26	377.60	377.72	0.12	378.19	0.59	376.09	377.77	0.001197	1.81	30.59	10.87	0.34
monte	28. sez.28	Q200	80.00	374.26	378.86	377.72	-1.14	378.19	-0.67	376.51	379.02	0.000885	1.80	44.39	10.99	0.29
monte	28. sez.28	Q500	96.30	374.26	379.11	377.72	-1.39	378.19	-0.92	376.75	379.32	0.001087	2.04	47.17	10.99	0.31
monte	27.5 sez. 27	Q50	55.30	374.50	377.52	377.53	0.01	377.53	0.01	376.31	377.75	0.001927	2.14	25.84	9.67	0.42
monte	27.5 sez. 27	Q200	80.00	374.50	378.79	377.53	-1.26	377.53	-1.26	376.75	379.01	0.001366	2.10	38.12	9.67	0.34
monte	27.5 sez. 27	Q500	96.30	374.50	379.02	377.53	-1.49	377.53	-1.49	377.00	379.31	0.001697	2.39	40.34	9.67	0.37
monte	27.2		Bridge													
monte	27. sez. 27	Q50	55.30	374.50	377.11	377.53	0.42	377.53	0.42	376.31	377.43	0.003095	2.53	21.90	9.58	0.53
monte	27. sez. 27	Q200	80.00	374.50	378.35	377.53	-0.82	377.53	-0.82	376.75	378.63	0.001892	2.36	33.85	9.67	0.40
monte	27. sez. 27	Q500	96.30	374.50	378.42	377.53	-0.89	377.53	-0.89	377.00	378.82	0.002585	2.79	34.58	9.67	0.47
monte	26.5 sez. 26	Q50	55.30	374.00	376.72	377.40	0.68	377.40	0.68	376.37	377.34	0.007016	3.50	15.79	7.44	0.77
monte	26.5 sez. 26	Q200	80.00	374.00	378.10	377.40	-0.70	377.40	-0.70	376.88	378.58	0.003658	3.06	26.16	7.53	0.52
monte	26.5 sez. 26	Q500	96.30	374.00	378.00	377.40	-0.60	377.40	-0.60	377.19	378.73	0.005717	3.79	25.43	7.53	0.66
monte	26.2		Bridge													
monte	26. sez. 26	Q50	55.30	374.00	376.37	377.40	1.03	377.40	1.03	376.37	377.26	0.011719	4.19	13.19	7.37	1.00
monte	26. sez. 26	Q200	80.00	374.00	376.92	377.40	0.48	377.40	0.48	376.88	378.01	0.011433	4.64	17.26	7.48	0.97
monte	26. sez. 26	Q500	96.30	374.00	377.29	377.40	0.11	377.40	0.11	377.19	378.46	0.010847	4.79	20.10	7.53	0.94
monte	25 sez. 25	Q50	55.30	373.00	375.28	375.51	0.23	376.27	0.99	375.28	376.25	0.012081	4.37	12.65	6.47	1.00
monte	25 sez. 25	Q200	80.00	373.00	375.83	375.51	-0.32	376.27	0.44	375.83	377.07	0.012697	4.93	16.24	6.53	1.00
monte	25 sez. 25	Q500	96.30	373.00	376.79	375.51	-1.28	376.27	-0.52	376.17	377.72	0.007655	4.27	22.56	6.58	0.74
monte	24.1 sez. 24	Q50	55.30	372.99	374.79	375.41	0.62	375.41	0.62	375.05	375.96	0.017244	4.79	11.54	7.32	1.22
monte	24.1 sez. 24	Q200	80.00	372.99	375.14	375.41	0.27	375.41	0.27	375.41	376.75	0.020539	5.63	14.22	7.98	1.35
monte	24.1 sez. 24	Q500	96.30	372.99	376.64	375.41	-1.23	375.41	-1.23	376.23	377.51	0.021388	4.15	23.21	8.26	0.73
monte	24 sez. 24	Q50	55.30	372.99	374.80	375.41	0.61	375.41	0.61	375.05	375.95	0.016773	4.74	11.66	7.36	1.20
monte	24 sez. 24	Q200	80.00	372.99	375.28	375.41	0.13	375.41	0.13	375.41	376.66	0.016482	5.21	15.34	8.01	1.20
monte	24 sez. 24	Q500	96.30	372.99	376.23	375.41	-0.82	375.41	-0.82	376.23	377.43	0.034536	4.84	19.88	8.25	0.91
monte	23.1 sez. 23	Q50	55.30	373.11	374.66	376.48	1.82	375.77	1.10	374.95	375.91	0.019440	4.95	11.17	7.65	1.31
monte	23.1 sez. 23	Q200	80.00	373.11	375.14	376.48	1.34	375.77	0.63	375.45	376.63	0.017964	5.41	14.79	7.71	1.25
monte	23.1 sez. 23	Q500	96.30	373.11	375.14	376.48	1.34	375.77	0.63	375.74	377.29	0.025782	6.49	14.84	7.71	1.49
monte	23 sez. 23	Q50	55.30	369.91	374.39	376.48	2.09	375.77	1.38	372.92	374.69	0.002687	2.39	23.11	7.62	0.44
monte	23 sez. 23	Q200	80.00	369.91	375.76	376.48	0.72	375.77	0.01	373.59	376.05	0.002033	2.38	33.66	7.78	0.36
monte	23 sez. 23	Q500	96.30	369.91	376.32	376.48	0.16	375.77	-0.55	373.89	376.65	0.002140	2.53	38.01	7.78	0.37
monte	22 sez. 22	Q50	55.30	370.50	373.92	373.22	-0.70	373.22	-0.70	372.87	374.56	0.013692	3.55	15.56		0.67
monte	22 sez. 22	Q200	80.00	370.50	375.57	373.22	-2.35	373.22	-2.35	374.18	375.97	0.007219	2.81	28.49	8.40	0.42
monte	22 sez. 22	Q500	96.30	370.50	376.14	373.22	-2.92	373.22	-2.92	374.49	376.57	0.006551	2.89	33.30	8.43	0.41
monte	21.2 sez. 21	Q50	55.30	370.41	373.82	373.22	-0.60	373.22	-0.60	372.78	374.41	0.012136	3.41	16.22		0.65

HEC-RAS Plan: 02_Feb_08 River: migliarese Reach: monte (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
monte	21.2 sez. 21	Q200	80.00	370.41	375.49	373.22	-2.27	373.22	-2.27	374.09	375.89	0.007212	2.80	28.55	8.41	0.42
monte	21.2 sez. 21	Q500	96.30	370.41	376.07	373.22	-2.85	373.22	-2.85	374.40	376.49	0.006507	2.88	33.43	8.43	0.41
monte	21.1 sez. 21	Q50	55.30	370.41	373.51	372.48	-1.03	372.48	-1.03	372.68	374.37	0.017860	4.11	13.46		0.77
monte	21.1 sez. 21	Q200	80.00	370.41	375.11	372.48	-2.63	372.48	-2.63	373.02	375.85	0.012841	3.81	20.98	5.50	0.57
monte	21.1 sez. 21	Q500	96.30	370.41	375.60	372.48	-3.12	372.48	-3.12	373.14	376.44	0.012396	4.06	23.70	5.50	0.58
monte	21 sez. 21	Q50	55.30	369.75	372.10	371.82	-0.28	371.82	-0.28	372.03	373.21	0.016335	4.65	11.90	4.58	1.00
monte	21 sez. 21	Q200	80.00	369.75	372.36	371.82	-0.54	371.82	-0.54	372.36	374.32	0.030861	6.20	12.91	3.26	1.27
monte	21 sez. 21	Q500	96.30	369.75	374.43	371.82	-2.61	371.82	-2.61	372.48	375.46	0.017478	4.51	21.37	5.50	0.68
monte	20.1 sez. 20	Q50	55.30	369.75	372.10	372.52	0.42	372.52	0.42	372.10	373.18	0.014887	4.62	11.98	5.50	1.00
monte	20.1 sez. 20	Q200	80.00	369.75	372.20	372.52	0.32	372.52	0.32	372.52	374.28	0.027574	6.39	12.53	5.50	1.35
monte	20.1 sez. 20	Q500	96.30	369.75	373.81	372.52	-1.29	372.52	-1.29	373.81	375.38	0.037486	5.55	17.35	5.50	0.90
monte	20 sez. 20	Q50	55.30	369.68	371.00	372.52	1.52	372.52	1.52	371.50	372.66	0.034364	5.70	9.70	9.29	1.78
monte	20 sez. 20	Q200	80.00	369.68	371.20	372.52	1.32	372.52	1.32	371.93	373.65	0.042493	6.94	11.53	9.34	1.99
monte	20 sez. 20	Q500	96.30	369.68	371.27	372.52	1.25	372.52	1.25	372.19	374.44	0.051748	7.89	12.21	9.36	2.21
monte	19.1 sez. 19	Q50	55.30	369.70	370.93	372.31	1.38	373.56	2.63	371.43	372.62	0.045514	5.75	9.62	12.03	2.05
monte	19.1 sez. 19	Q200	80.00	369.70	371.08	372.31	1.23	373.56	2.48	371.78	373.60	0.056133	7.03	11.38	12.08	2.31
monte	19.1 sez. 19	Q500	96.30	369.70	371.14	372.31	1.17	373.56	2.42	372.01	374.38	0.067468	7.98	12.07	12.10	2.55
monte	19 sez. 19	Q50	55.30	368.54	369.34	372.16	2.82	373.00	3.66	370.12	372.44	0.164470	7.80	7.09	8.91	2.79
monte	19 sez. 19	Q200	80.00	368.54	369.57	372.16	2.59	373.00	3.43	370.71	373.42	0.152846	8.69	9.20	8.91	2.73
monte	19 sez. 19	Q500	96.30	368.54	369.69	372.16	2.47	373.00	3.31	370.94	374.20	0.160022	9.41	10.23	8.91	2.80
monte	18.8	Q50	55.30	368.34	369.16	372.16	3.00	373.00	3.84	369.97	371.93	0.139497	7.37	7.51	9.21	2.60
monte	18.8	Q200	80.00	368.34	369.39	372.16	2.77	373.00	3.61	370.35	372.94	0.137040	8.36	9.57	9.25	2.62
monte	18.8	Q500	96.30	368.34	369.50	372.16	2.66	373.00	3.50	370.58	373.70	0.144856	9.08	10.61	9.28	2.71
monte	18.6 sez. 18	Q50	55.30	368.82	369.90	372.16	2.26	373.00	3.10	370.40	371.60	0.072767	5.78	9.57	10.49	1.93
monte	18.6 sez. 18	Q200	80.00	368.82	370.04	372.16	2.12	373.00	2.96	370.78	372.65	0.101805	7.15	11.19	11.40	2.30
monte	18.6 sez. 18	Q500	96.30	368.82	370.11	372.16	2.05	373.00	2.89	371.01	373.41	0.119762	8.05	11.96	11.40	2.51
monte	18.4 sez. 18	Q50	55.30	368.82	369.92	372.16	2.24	373.00	3.08	370.40	371.54	0.068792	5.63	9.82	10.72	1.88
monte	18.4 sez. 18	Q200	80.00	368.82	370.06	372.16	2.10	373.00	2.94	370.78	372.57	0.095910	7.01	11.40	11.40	2.24
monte	18.4 sez. 18	Q500	96.30	368.82	370.13	372.16	2.03	373.00	2.87	371.01	373.32	0.113701	7.92	12.16	11.40	2.45
monte	18.2	Q50	55.30	368.16	370.73	372.16	1.43	373.00	2.27	369.71	370.97	0.004089	2.17	25.46	11.40	0.46
monte	18.2	Q200	80.00	368.16	371.41	372.16	0.75	373.00	1.59	370.21	371.70	0.003929	2.41	33.22	11.40	0.45
monte	18.2	Q500	96.30	368.16	369.37	372.16	2.79	373.00	3.63	370.43	373.24	0.128297	8.72	11.04	9.26	2.55
monte	18	Q50	55.30	368.20	370.71	372.16	1.45	373.00	2.29	369.81	370.96	0.004307	2.25	24.57	11.55	0.49
monte	18	Q200	80.00	368.20	371.39	372.16	0.77	373.00	1.61	370.28	371.70	0.003984	2.46	32.49	11.55	0.47
monte	18	Q500	96.30	368.20	369.49	372.16	2.67	373.00	3.51	370.50	373.10	0.117383	8.43	11.42	10.22	2.55
monte	17.9 sez. 17	Q50	55.30	368.04	370.57	372.16	1.59	373.00	2.43	370.07	370.88	0.006904	2.47	22.43	12.95	0.60
monte	17.9 sez. 17	Q200	80.00	368.04	371.32	372.16	0.84	373.00	1.68	370.41	371.63	0.004851	2.49	32.17	12.95	0.50
monte	17.9 sez. 17	Q500	96.30	368.04	371.76	372.16	0.40	373.00	1.24	370.62	372.09	0.004336	2.54	37.87	12.95	0.47
monte	17.8 sez. 17	Q50	55.30	368.04	369.98	371.74	1.76	373.00	3.02	369.95	370.82	0.019701	4.07	13.57	7.63	0.98
monte	17.8 sez. 17	Q200	80.00	368.04	370.44	371.74	1.30	373.00	2.56	370.44	371.55	0.021254	4.68	17.11	7.63	1.00

HEC-RAS Plan: 02_Feb_08 River: migliarese Reach: monte (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
monte	17.8 sez. 17	Q500	96.30	368.04	370.73	371.74	1.01	373.00	2.27	370.73	372.00	0.021831	4.98	19.34	7.63	1.00
monte	15.75 sez. 16	Q50	55.30	367.83	369.41	371.64	2.23	374.00	4.59	369.55	370.37	0.026757	4.36	12.69	8.70	1.15
monte	15.75 sez. 16	Q200	80.00	367.83	369.95	371.64	1.69	374.00	4.05	370.00	371.02	0.022001	4.60	17.41	8.70	1.04
monte	15.75 sez. 16	Q500	96.30	367.83	370.21	371.64	1.43	374.00	3.79	370.27	371.43	0.022319	4.89	19.69	8.70	1.04
monte	15.7 sez. 16	Q50	55.30	367.22	368.23	371.64	3.41	374.00	5.77	368.83	370.26	0.083847	6.32	8.74	8.70	2.01
monte	15.7 sez. 16	Q200	80.00	367.22	368.58	371.64	3.06	374.00	5.42	369.27	370.90	0.069034	6.74	11.87	8.70	1.84
monte	15.7 sez. 16	Q500	96.30	367.22	368.80	371.64	2.84	374.00	5.20	369.54	371.30	0.064408	7.00	13.75	8.70	1.78
monte	15.65	Q50	55.30	367.22	368.83	371.64	2.81	374.00	5.17	368.83	369.62	0.020161	3.95	14.00	8.70	0.99
monte	15.65	Q200	80.00	367.22	369.27	371.64	2.37	374.00	4.73	369.27	370.30	0.020546	4.48	17.88	8.70	1.00
monte	15.65	Q500	96.30	367.22	369.54	371.64	2.10	374.00	4.46	369.54	370.70	0.020845	4.76	20.23	8.70	1.00
monte	15.6	Q50	55.30	367.22	368.25	368.53	0.28	374.00	5.75	368.65	369.57	0.056206	5.09	10.86	12.46	1.74
monte	15.6	Q200	80.00	367.22	368.46	368.53	0.07	374.00	5.54	368.98	370.22	0.060786	5.87	13.63	13.25	1.85
monte	15.6	Q500	96.30	367.22	368.58	368.53	-0.05	374.00	5.42	369.19	370.61	0.062534	6.30	15.28	13.50	1.89
monte	15.1 sez. 15.1	Q50	55.30	366.88	368.44	370.77	2.33	370.45	2.01	368.44	369.03	0.009540	3.40	16.24	13.67	1.00
monte	15.1 sez. 15.1	Q200	80.00	366.88	368.77	370.77	2.00	370.45	1.68	368.77	369.52	0.009280	3.85	20.80	13.69	1.00
monte	15.1 sez. 15.1	Q500	96.30	366.88	368.97	370.77	1.80	370.45	1.48	368.97	369.82	0.009244	4.10	23.50	13.69	1.00
monte	15 sez. 15	Q50	55.30	366.51	367.66	370.77	3.11	370.45	2.79	368.06	368.94	0.027360	5.02	11.01	11.23	1.62
monte	15 sez. 15	Q200	80.00	366.51	368.00	370.77	2.77	370.45	2.45	368.44	369.44	0.023342	5.31	15.05	12.32	1.53
monte	15 sez. 15	Q500	96.30	366.51	368.19	370.77	2.58	370.45	2.26	368.64	369.74	0.022107	5.50	17.50	12.93	1.51
monte	14.1 sez. 14.1	Q50	55.30	365.46	367.01	368.50	1.49	367.70	0.69	367.01	367.70	0.010260	3.67	15.09	11.01	1.00
monte	14.1 sez. 14.1	Q200	80.00	365.46	367.25	368.50	1.26	367.70	0.46	367.40	368.29	0.013357	4.54	17.64	11.01	1.14
monte	14.1 sez. 14.1	Q500	96.30	365.46	367.47	368.50	1.03	367.70	0.23	367.63	368.64	0.013113	4.80	20.07	11.01	1.13

HEC-RAS Plan: 01_Feb_08 River: migliarese Reach: valle

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle	14.1	Q50	55.30	365.46	367.02	372.30	5.28	367.70	0.68	367.02	367.70	0.010184	3.66	15.12	11.01	1.00
valle	14.1	Q200	80.00	365.46	367.40	372.30	4.90	367.70	0.30	367.40	368.27	0.010129	4.14	19.33	11.01	1.00
valle	14.1	Q500	96.30	365.46	367.63	372.30	4.67	367.70	0.07	367.63	368.62	0.010114	4.40	21.90	11.01	1.00
valle	14 Sez 14	Q50	55.30	364.60	365.80	372.30	6.50	367.70	1.90	366.33	367.57	0.040461	5.90	9.38	9.97	1.94
valle	14 Sez 14	Q200	80.00	364.60	366.11	372.30	6.19	367.70	1.59	366.72	368.14	0.035749	6.30	12.69	10.91	1.87
valle	14 Sez 14	Q500	96.30	364.60	366.30	372.30	6.00	367.70	1.40	366.95	368.48	0.033089	6.55	14.71	11.01	1.81
valle	13.1	Q50	55.30	364.60	365.70	372.29	6.59	367.70	2.00	366.22	367.48	0.045770	5.92	9.35	10.99	2.05
valle	13.1	Q200	80.00	364.60	365.99	372.29	6.30	367.70	1.71	366.61	368.06	0.038014	6.37	12.56	10.99	1.90
valle	13.1	Q500	96.30	364.60	366.17	372.29	6.12	367.70	1.53	366.84	368.41	0.035056	6.62	14.54	10.99	1.84
valle	13 Sez 13	Q50	55.30	362.87	364.09	372.29	8.20	367.70	3.61	364.88	367.28	0.092796	7.91	6.99	8.82	2.84
valle	13 Sez 13	Q200	80.00	362.87	364.38	372.29	7.91	367.70	3.32	365.30	367.87	0.075902	8.27	9.68	9.62	2.63
valle	13 Sez 13	Q500	96.30	362.87	364.56	372.29	7.73	367.70	3.14	365.61	368.22	0.067026	8.47	11.37	9.62	2.49
valle	12 Sez 12	Q50	55.30	362.41	365.21	371.37	6.16	365.44	0.23	364.89	365.78	0.006438	3.36	16.47	8.55	0.77
valle	12 Sez 12	Q200	80.00	362.41	366.04	371.37	5.33	365.44	-0.60	365.36	366.62	0.004802	3.38	23.70	8.90	0.66
valle	12 Sez 12	Q500	96.30	362.41	366.56	371.37	4.81	365.44	-1.12	365.65	367.15	0.004203	3.39	28.45	9.10	0.61
valle	11 Sez 11	Q50	55.30	361.92	364.59	369.67	5.08	365.54	0.95	364.59	365.50	0.011737	4.23	13.08	7.23	1.00
valle	11 Sez 11	Q200	80.00	361.92	365.66	369.67	4.01	365.54	-0.12	365.11	366.40	0.006554	3.81	20.98	7.49	0.73
valle	11 Sez 11	Q500	96.30	361.92	366.20	369.67	3.47	365.54	-0.66	365.42	366.95	0.005860	3.84	25.07	7.58	0.67
valle	10 Sez 10	Q50	55.30	361.79	364.71	367.20	2.49	366.07	1.36	363.83	364.97	0.002407	2.27	24.35	11.56	0.50
valle	10 Sez 10	Q200	80.00	361.79	365.97	367.20	1.23	366.07	0.10	364.23	366.18	0.001272	2.04	39.22	12.01	0.36
valle	10 Sez 10	Q500	96.30	361.79	366.51	367.20	0.69	366.07	-0.44	364.47	366.74	0.001191	2.10	45.82	12.11	0.34
valle	9.1	Q50	55.30	361.47	364.55	367.31	2.76	367.47	2.92	363.77	364.92	0.003489	2.69	20.59	8.66	0.56
valle	9.1	Q200	80.00	361.47	365.82	367.31	1.49	367.47	1.65	364.24	366.15	0.002227	2.53	31.59	8.71	0.42
valle	9.1	Q500	96.30	361.47	366.34	367.31	0.97	367.47	1.13	364.50	366.70	0.002246	2.66	36.15	8.73	0.42
valle	9	Q50	55.30	361.47	364.55	367.31	2.76	367.47	2.92	363.77	364.92	0.003515	2.69	20.54	8.66	0.56
valle	9	Q200	80.00	361.47	365.82	367.31	1.49	367.47	1.65	364.24	366.14	0.002233	2.54	31.55	8.71	0.43
valle	9	Q500	96.30	361.47	366.34	367.31	0.97	367.47	1.13	364.50	366.70	0.002251	2.67	36.12	8.73	0.42
valle	8.95 Sez 9		Bridge													
valle	8.9	Q50	55.30	361.47	364.38	367.31	2.93	367.47	3.09	363.77	364.81	0.004334	2.90	19.09	8.65	0.62
valle	8.9	Q200	80.00	361.47	365.69	367.31	1.62	367.47	1.78	364.24	366.04	0.002463	2.63	30.44	8.71	0.45
valle	8.9	Q500	96.30	361.47	366.17	367.31	1.14	367.47	1.30	364.50	366.56	0.002521	2.78	34.62	8.72	0.45
valle	8.8	Q50	55.30	361.31	364.39	367.31	2.92	367.47	3.08	363.68	364.78	0.003726	2.75	20.12	8.65	0.58
valle	8.8	Q200	80.00	361.31	365.69	367.31	1.62	367.47	1.78	364.12	366.02	0.002263	2.55	31.40	8.71	0.43
valle	8.8	Q500	96.30	361.31	366.17	367.31	1.14	367.47	1.30	364.40	366.54	0.002343	2.71	35.58	8.72	0.43
valle	8.5		Lat Struct													
valle	8 Sez 8	Q50	55.30	361.19	364.41	363.62	-0.79	364.88	0.47	363.10	364.70	0.002451	2.41	22.96	7.40	0.44
valle	8 Sez 8	Q200	78.32	361.19	365.68	363.62	-2.06	364.88	-0.80	363.56	365.98	0.001985	2.42	32.37	7.40	0.37
valle	8 Sez 8	Q500	91.11	361.19	366.17	363.62	-2.55	364.88	-1.29	363.80	366.49	0.002049	2.53	35.97	7.40	0.37
valle	7 Sez 7	Q50	55.30	361.11	363.92	363.62	-0.30	363.62	-0.30	363.19	364.64	0.008063	3.75	14.76		0.71

HEC-RAS Plan: 01_Feb_08 River: migliarese Reach: valle (Continued)

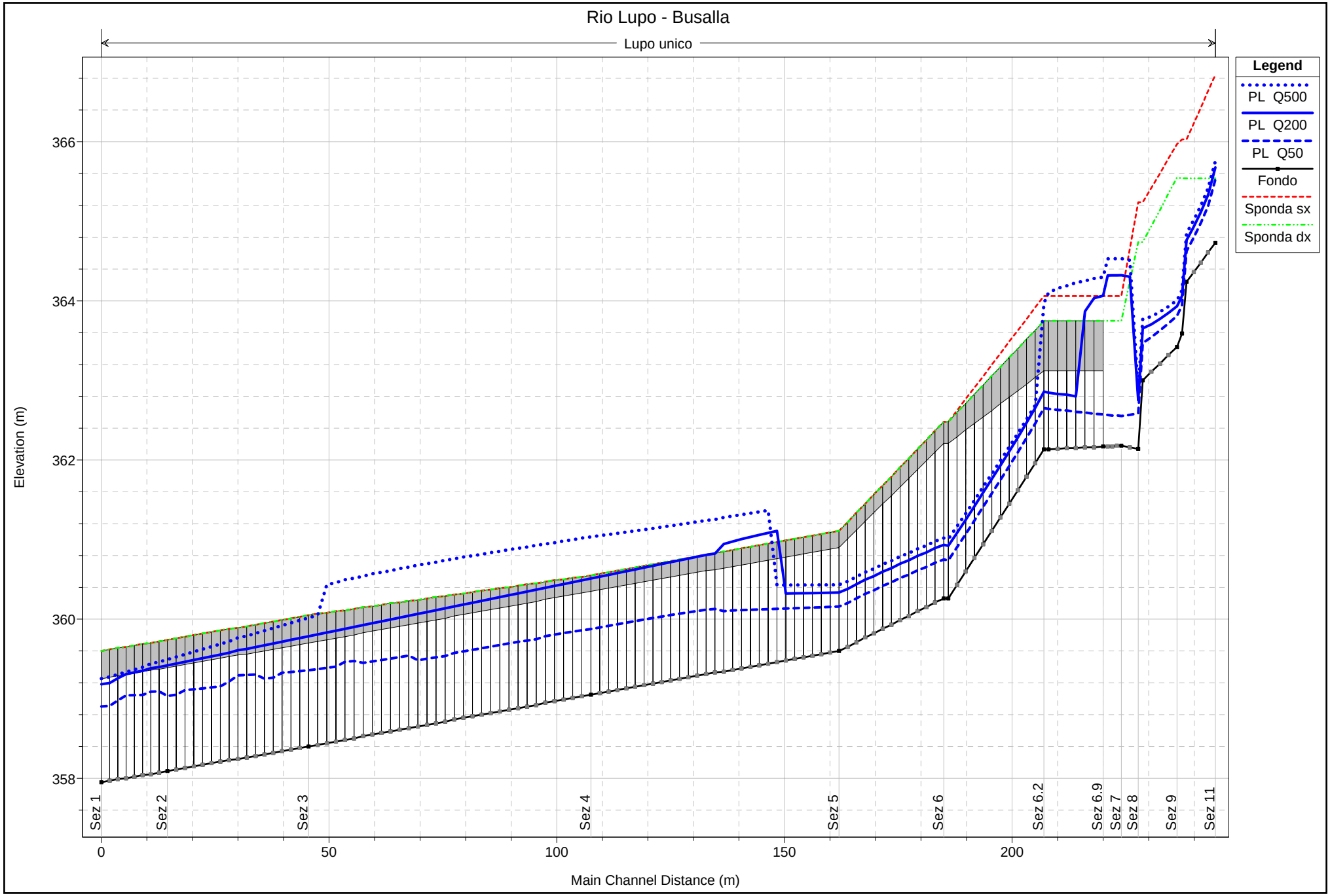
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle	7 Sez 7	Q200	65.95	361.11	364.87	363.62	-1.25	363.62	-1.25	363.45	365.89	0.011470	4.47	14.76		0.74
valle	7 Sez 7	Q500	69.69	361.11	365.24	363.62	-1.62	363.62	-1.62	363.54	366.38	0.012806	4.72	14.76		0.74
valle	6.95	Q50	55.30	361.05	363.94	363.62	-0.32	363.62	-0.32	363.12	364.61	0.007342	3.62	15.27		0.68
valle	6.95	Q200	65.95	361.05	364.89	363.62	-1.27	363.62	-1.27	363.38	365.84	0.010444	4.32	15.27		0.70
valle	6.95	Q500	69.69	361.05	365.27	363.62	-1.65	363.62	-1.65	363.47	366.33	0.011660	4.57	15.27		0.71
valle	6.9 Sez 6.9	Q50	55.30	360.66	364.05	363.62	-0.43	363.62	-0.43	362.73	364.55	0.004867	3.15	17.58		0.55
valle	6.9 Sez 6.9	Q200	65.95	360.66	365.05	363.62	-1.43	363.62	-1.43	362.98	365.77	0.006924	3.75	17.58		0.57
valle	6.9 Sez 6.9	Q500	69.69	360.66	365.44	363.62	-1.82	363.62	-1.82	363.07	366.24	0.007730	3.96	17.58		0.58
valle	6.35	Q50	55.30	360.47	363.95	363.07	-0.88	363.07	-0.88	362.41	364.49	0.005677	3.26	16.95		0.56
valle	6.35	Q200	65.95	360.47	364.91	363.07	-1.84	363.07	-1.84	362.66	365.68	0.008076	3.89	16.95		0.59
valle	6.35	Q500	69.69	360.47	365.28	363.07	-2.21	363.07	-2.21	362.74	366.15	0.009017	4.11	16.95		0.60
valle	6.3 Sez 6.3	Q50	55.30	360.47	363.86	362.98	-0.88	362.98	-0.88	362.44	364.47	0.010184	3.48	15.91		0.60
valle	6.3 Sez 6.3	Q200	65.95	360.47	364.78	362.98	-1.80	362.98	-1.80	362.69	365.66	0.014486	4.15	15.91		0.64
valle	6.3 Sez 6.3	Q500	69.69	360.47	365.14	362.98	-2.16	362.98	-2.16	362.78	366.12	0.016173	4.38	15.91		0.65
valle	6.26	Q50	55.30	360.33	363.45	362.45	-1.00	362.45	-1.00	362.30	364.33	0.017555	4.14	13.35		0.75
valle	6.26	Q200	65.95	360.33	364.18	362.45	-1.73	362.45	-1.73	362.44	365.44	0.027373	4.97	13.26		0.81
valle	6.26	Q500	69.69	360.33	364.47	362.45	-2.02	362.45	-2.02	362.45	365.88	0.030563	5.26	13.26		0.82
valle	6.25	Q50	55.30	360.33	362.80	362.03	-0.77	362.03	-0.77	362.03	364.24	0.035214	5.33	10.38		1.09
valle	6.25	Q200	65.95	360.33	363.23	362.03	-1.20	362.03	-1.20	362.03	365.32	0.054066	6.40	10.31		1.21
valle	6.25	Q500	69.69	360.33	363.40	362.03	-1.37	362.03	-1.37	362.03	365.74	0.062147	6.78	10.28		1.25
valle	6.2 Sez 6.2	Q50	55.30	360.33	362.90	362.03	-0.87	362.03	-0.87	362.03	364.16	0.020313	4.98	11.10		0.99
valle	6.2 Sez 6.2	Q200	65.95	360.33	363.39	362.03	-1.36	362.03	-1.36	362.03	365.19	0.028895	5.94	11.10		1.08
valle	6.2 Sez 6.2	Q500	69.69	360.33	363.59	362.03	-1.56	362.03	-1.56	362.03	365.60	0.032261	6.28	11.10		1.11
valle	6.18	Q50	55.30	360.22	362.81	361.72	-1.10	361.72	-1.10	361.72	364.05	0.021889	4.92	11.25		0.97
valle	6.18	Q200	65.95	360.22	363.27	361.72	-1.55	361.72	-1.55	361.72	365.03	0.031136	5.86	11.25		1.07
valle	6.18	Q500	69.69	360.22	363.46	361.72	-1.74	361.72	-1.74	361.72	365.41	0.034764	6.20	11.25		1.10
valle	6.17	Q50	55.30	359.86	362.48	361.54	-0.93	361.54	-0.93	361.54	363.46	0.015399	4.39	12.60		0.87
valle	6.17	Q200	65.95	359.86	362.79	361.54	-1.25	361.54	-1.25	361.54	364.19	0.021905	5.23	12.60		0.98
valle	6.17	Q500	69.69	359.86	362.92	361.54	-1.38	361.54	-1.38	361.54	364.47	0.024457	5.53	12.60		1.01
valle	6.16	Q50	55.30	359.61	362.17	361.49	-0.68	361.49	-0.68	361.49	363.15	0.014088	4.39	12.60		0.88
valle	6.16	Q200	65.95	359.61	362.36	361.49	-0.86	361.49	-0.86	361.49	363.75	0.020040	5.24	12.60		1.01
valle	6.16	Q500	69.69	359.61	362.43	361.49	-0.94	361.49	-0.94	361.49	363.99	0.022375	5.53	12.60		1.05
valle	6.15	Q50	55.30	359.57	361.79	361.49	-0.30	361.49	-0.30	361.49	363.07	0.018908	5.02	11.02		1.08
valle	6.15	Q200	65.95	359.57	361.81	361.49	-0.32	361.49	-0.32	361.49	363.64	0.026896	5.98	11.02		1.28
valle	6.15	Q500	69.69	359.57	361.83	361.49	-0.34	361.49	-0.34	361.49	363.86	0.030030	6.32	11.02		1.34
valle	6.1 Sez 6.1	Q50	55.30	359.57	361.69	361.17	-0.52	361.72	0.03	361.69	363.05	0.012304	5.17	10.71	3.92	1.13
valle	6.1 Sez 6.1	Q200	65.95	359.57	361.72	361.17	-0.55	361.72	0.00	361.72	363.61	0.017124	6.09	10.82	3.84	1.33
valle	6.1 Sez 6.1	Q500	69.69	359.57	361.72	361.17	-0.55	361.72	0.00	361.72	363.83	0.019121	6.44	10.82	3.84	1.40
valle	6.06	Q50	55.30	359.51	361.03	361.17	0.14	361.72	0.69	361.50	362.94	0.018022	6.12	9.03	5.94	1.59
valle	6.06	Q200	65.95	359.51	361.15	361.17	0.02	361.72	0.57	361.71	363.49	0.020734	6.78	9.72	5.94	1.69

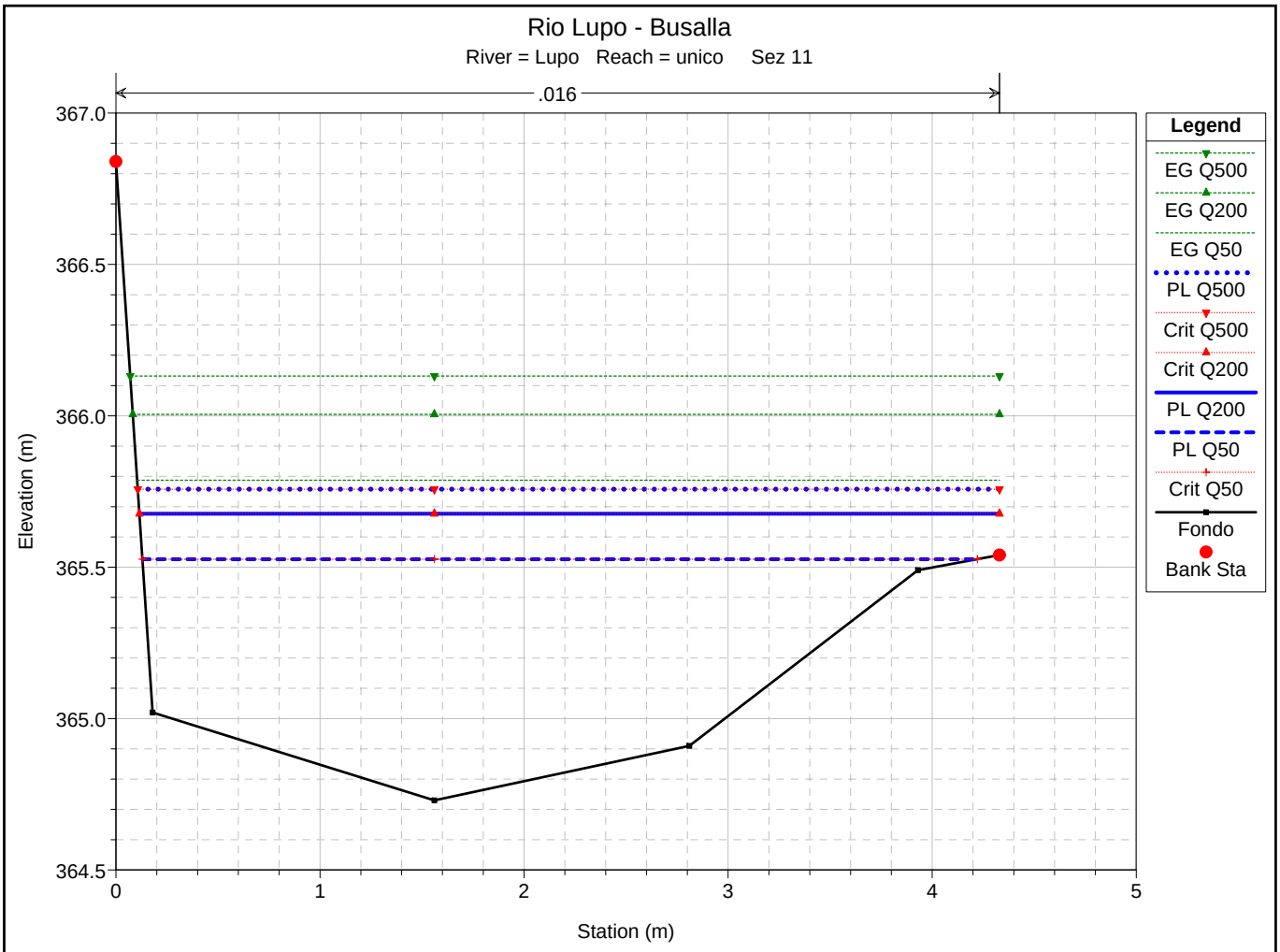
HEC-RAS Plan: 01_Feb_08 River: migliarese Reach: valle (Continued)

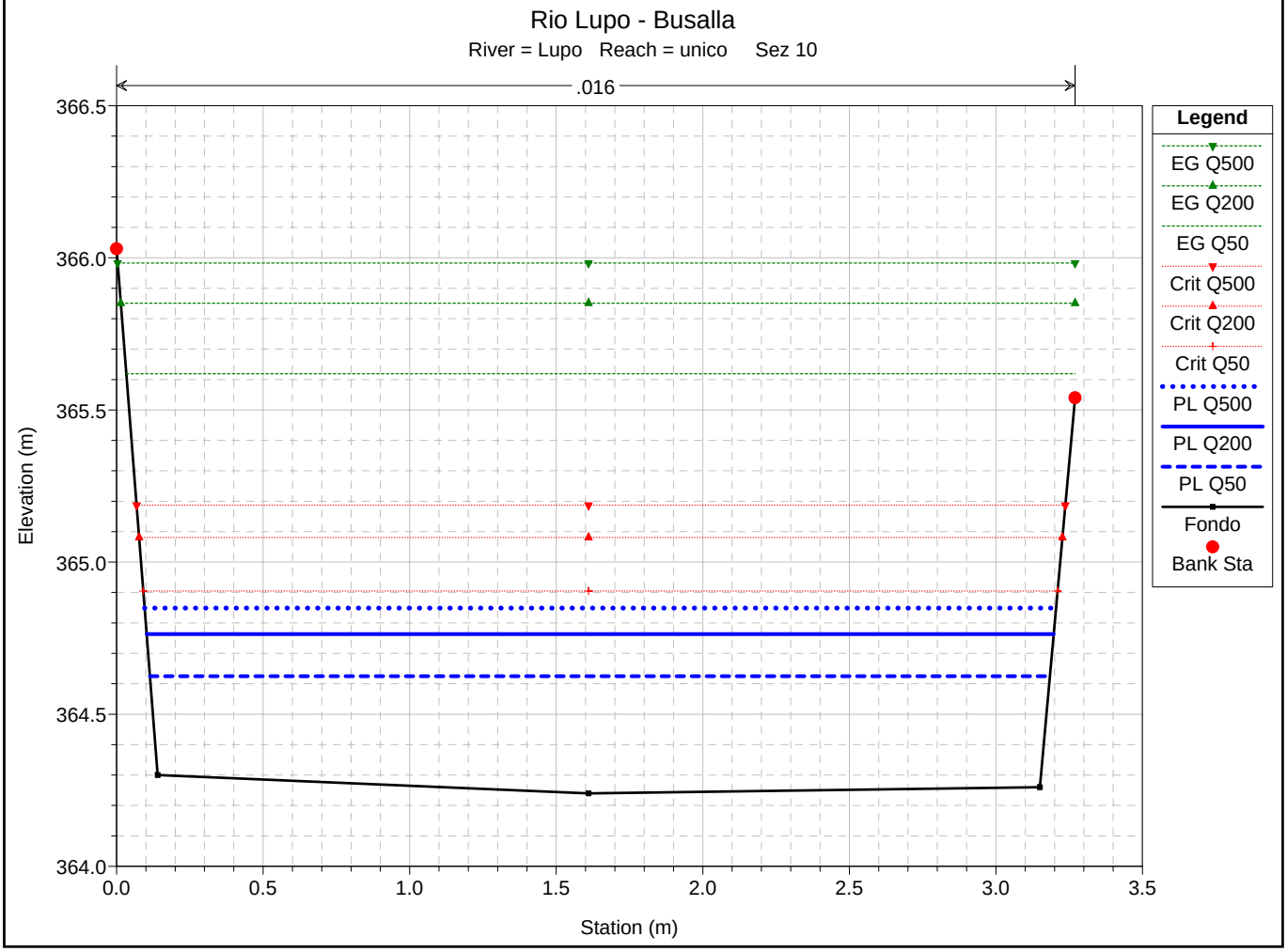
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
valle	6.06	Q500	69.69	359.51	361.17	361.17	0.00	361.72	0.55	361.72	363.71	0.022158	7.06	9.87	5.94	1.75
valle	6.05	Q50	55.30	359.51	361.04	361.17	0.13	361.72	0.68	361.50	362.93	0.017720	6.09	9.08	5.94	1.57
valle	6.05	Q200	65.95	359.51	361.15	361.17	0.02	361.72	0.57	361.71	363.48	0.020447	6.75	9.77	5.94	1.68
valle	6.05	Q500	69.69	359.51	361.18	361.17	-0.01	361.72	0.54	361.72	363.70	0.021927	7.03	9.92	5.92	1.74
valle	6 Sez 6	Q50	55.30	359.15	361.22	361.17	-0.05	361.69	0.47	361.36	362.46	0.009293	4.94	11.20	5.81	1.15
valle	6 Sez 6	Q200	65.95	359.15	361.52	361.17	-0.35	361.69	0.17	361.56	362.86	0.009707	5.14	12.84	5.11	1.11
valle	6 Sez 6	Q500	69.69	359.15	361.35	361.17	-0.18	361.69	0.34	361.63	363.08	0.012715	5.83	11.95	5.51	1.31
valle	5 Sez 5	Q50	55.30	358.63	360.32	362.54	2.22	361.08	0.76	360.77	361.95	0.025205	5.66	9.78	6.24	1.44
valle	5 Sez 5	Q200	65.95	358.63	360.67	362.54	1.87	361.08	0.41	361.01	362.22	0.020326	5.52	11.95	6.30	1.28
valle	5 Sez 5	Q500	69.69	358.63	360.51	362.54	2.03	361.08	0.57	361.10	362.57	0.028904	6.36	10.97	6.28	1.53
valle	4 Sez 4	Q50	55.30	358.33	359.95	361.54	1.59	361.54	1.59	360.27	361.26	0.019973	5.08	10.88	7.62	1.36
valle	4 Sez 4	Q200	65.95	358.33	360.11	361.54	1.43	361.54	1.43	360.49	361.62	0.020824	5.45	12.10	7.62	1.38
valle	4 Sez 4	Q500	69.69	358.33	360.13	361.54	1.41	361.54	1.41	360.56	361.77	0.022183	5.67	12.30	7.62	1.42
valle	3.5 Sez 3.5	Q50	55.30	358.26	359.93	361.10	1.17	360.50	0.57	360.20	361.14	0.017837	4.88	11.34	7.62	1.28
valle	3.5 Sez 3.5	Q200	65.95	358.26	360.10	361.10	1.00	360.50	0.40	360.41	361.48	0.018374	5.21	12.67	7.62	1.29
valle	3.5 Sez 3.5	Q500	69.69	358.26	360.12	361.10	0.98	360.50	0.38	360.49	361.63	0.019838	5.44	12.81	7.62	1.34
valle	3.4 Sez 3.5	Q50	55.30	357.85	359.19	361.54	2.35	361.54	2.35	359.75	361.05	0.033799	6.04	9.15	7.42	1.74
valle	3.4 Sez 3.5	Q200	65.95	357.85	359.36	361.54	2.18	361.54	2.18	359.97	361.39	0.032506	6.31	10.45	7.48	1.71
valle	3.4 Sez 3.5	Q500	69.69	357.85	359.41	361.54	2.13	361.54	2.13	360.05	361.54	0.033200	6.47	10.77	7.50	1.72
valle	3 Sez 3	Q50	55.30	357.69	359.70	361.59	1.89	361.59	1.89	359.18	360.07	0.004063	2.67	20.69	10.90	0.62
valle	3 Sez 3	Q200	65.95	357.69	358.86	361.59	2.73	361.59	2.73	359.36	360.52	0.034287	5.71	11.55	10.90	1.77
valle	3 Sez 3	Q500	69.69	357.69	358.89	361.59	2.70	361.59	2.70	359.42	360.65	0.035371	5.88	11.85	10.90	1.80
valle	2.9	Q50	55.30	357.69	359.69	361.59	1.90	361.59	1.90	359.19	360.06	0.004118	2.68	20.60	10.90	0.62
valle	2.9	Q200	65.95	357.69	358.89	361.59	2.70	361.59	2.70	359.36	360.47	0.031488	5.55	11.87	10.90	1.70
valle	2.9	Q500	69.69	357.69	358.92	361.59	2.67	361.59	2.67	359.40	360.59	0.032641	5.73	12.16	10.90	1.73
valle	2.5		Bridge													
valle	2.1	Q50	55.30	357.69	358.92	361.59	2.67	361.59	2.67	359.19	359.97	0.020642	4.55	12.14	10.90	1.38
valle	2.1	Q200	65.95	357.69	359.06	361.59	2.53	361.59	2.53	359.36	360.25	0.020456	4.83	13.65	10.90	1.38
valle	2.1	Q500	69.69	357.69	359.10	361.59	2.49	361.59	2.49	359.40	360.34	0.020370	4.92	14.17	10.90	1.38
valle	2 Sez 2	Q50	55.30	357.13	359.15	362.59	3.44	362.59	3.44	358.27	359.31	0.001550	1.78	31.04	15.85	0.41
valle	2 Sez 2	Q200	65.95	357.13	359.60	362.59	2.99	362.59	2.99	358.40	359.75	0.001183	1.73	38.09	15.85	0.36
valle	2 Sez 2	Q500	69.69	357.13	359.85	362.59	2.74	362.59	2.74	358.44	359.99	0.000975	1.65	42.14	15.85	0.32
valle	1 Sez 1	Q50	55.30	355.50	359.21	359.40	0.19	359.40	0.19	356.42	359.24	0.000133	0.75	74.19	20.00	0.12
valle	1 Sez 1	Q200	65.95	355.50	359.65	359.40	-0.25	359.40	-0.25	356.54	359.68	0.000135	0.79	83.00	20.00	0.12
valle	1 Sez 1	Q500	69.69	355.50	359.90	359.40	-0.50	359.40	-0.50	356.58	359.93	0.000127	0.79	88.00	20.00	0.12

Rio Lupo

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


Rio Lupo - Busalla
Lupo unico
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
366
364
362
360
358
Sez 1
Sez 2
Sez 3
Sez 4
Sez 5
Sez 6
Sez 6.2
Sez 6.9
Sez 7
Sez 8
Sez 9
Sez 11
0
50
100
150
200
Main Channel Distance (m)


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 11
.016
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 10
.016
Elevation (m)
Station (m)
Legend
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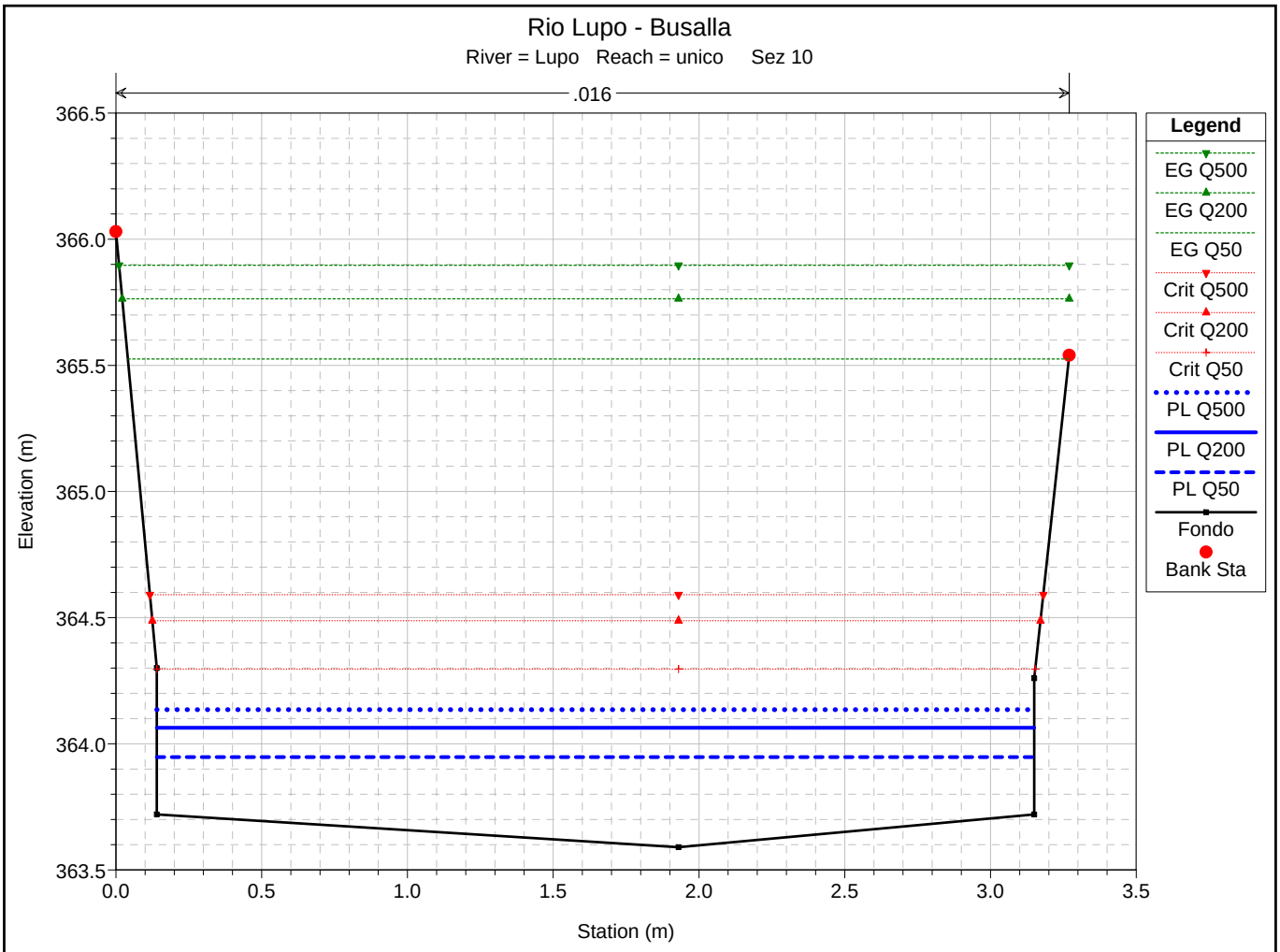
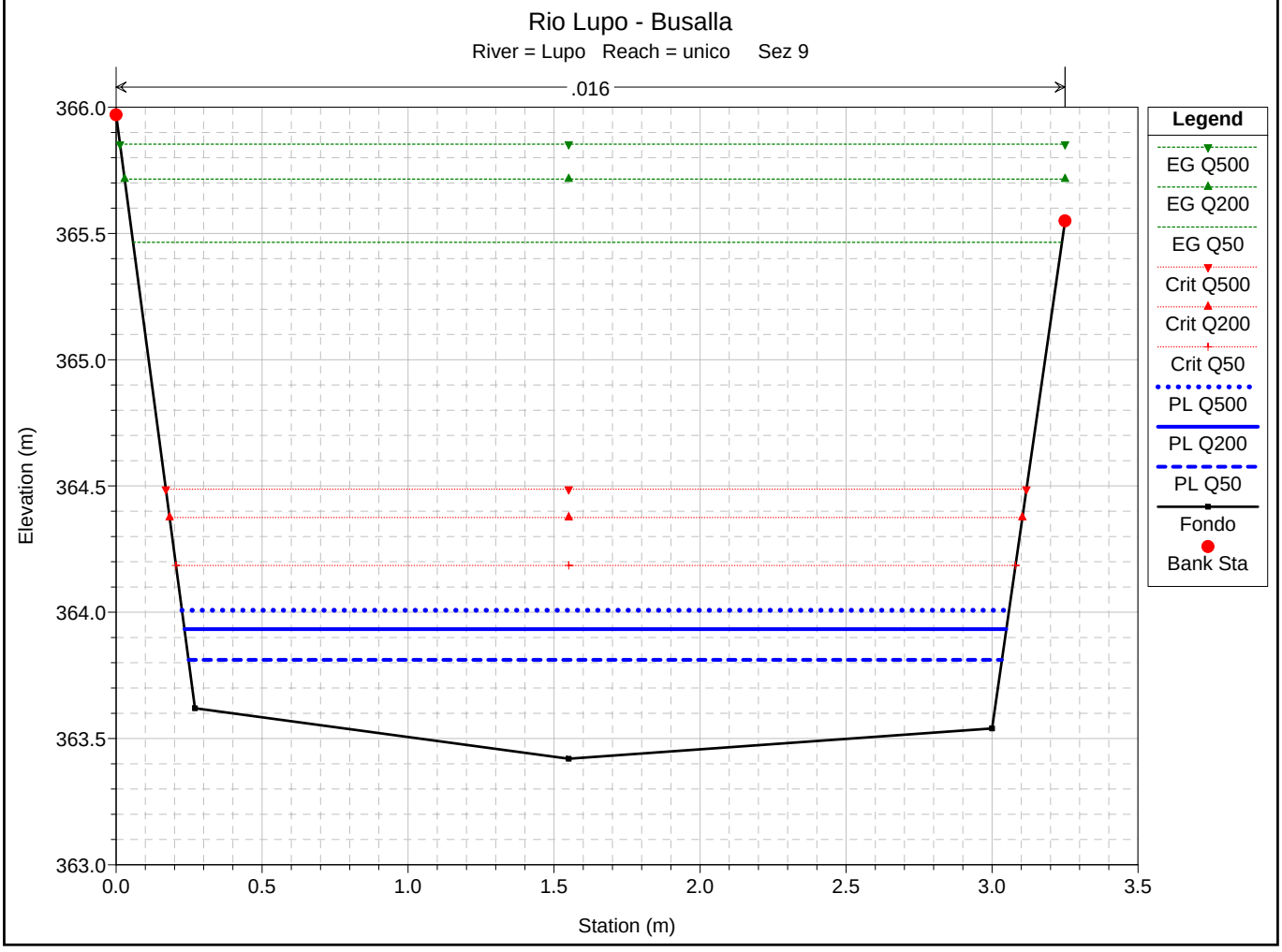
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 10
.016
Elevation (m)
366.5
366.0
365.5
365.0
364.5
364.0
363.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 9
.016
Elevation (m)
366.0
365.5
365.0
364.5
364.0
363.5
363.0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Station (m)
Legend
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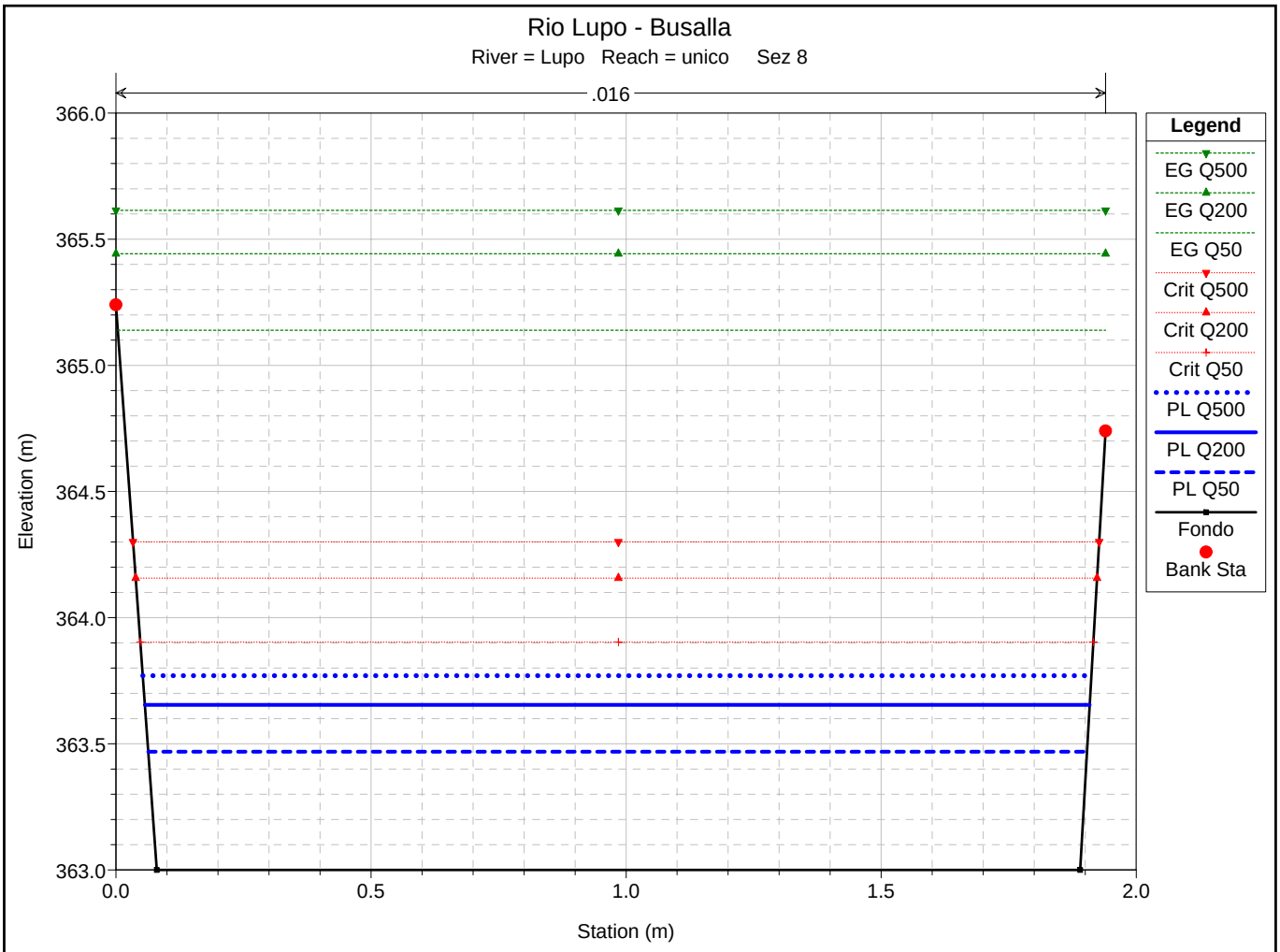
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta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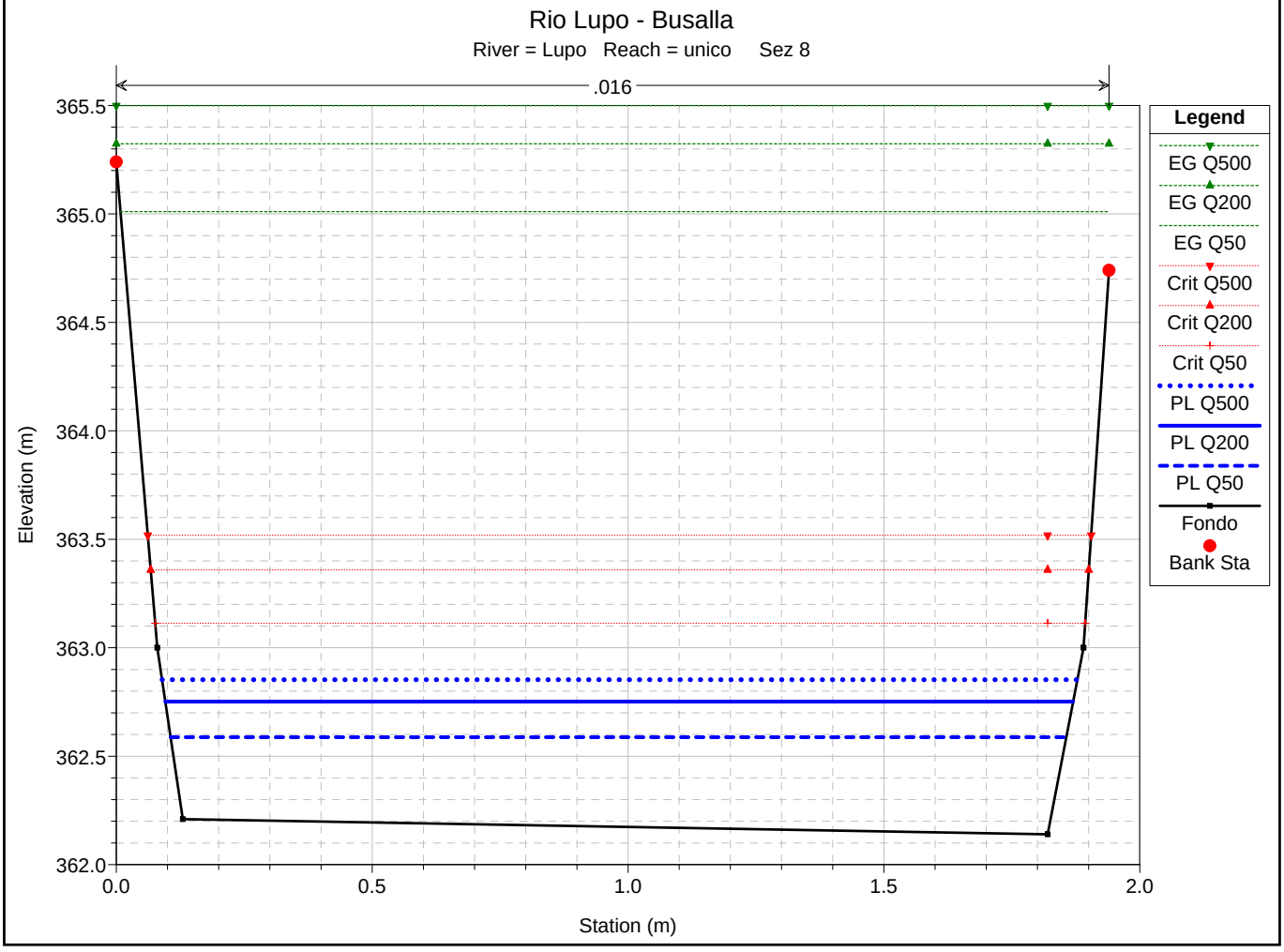
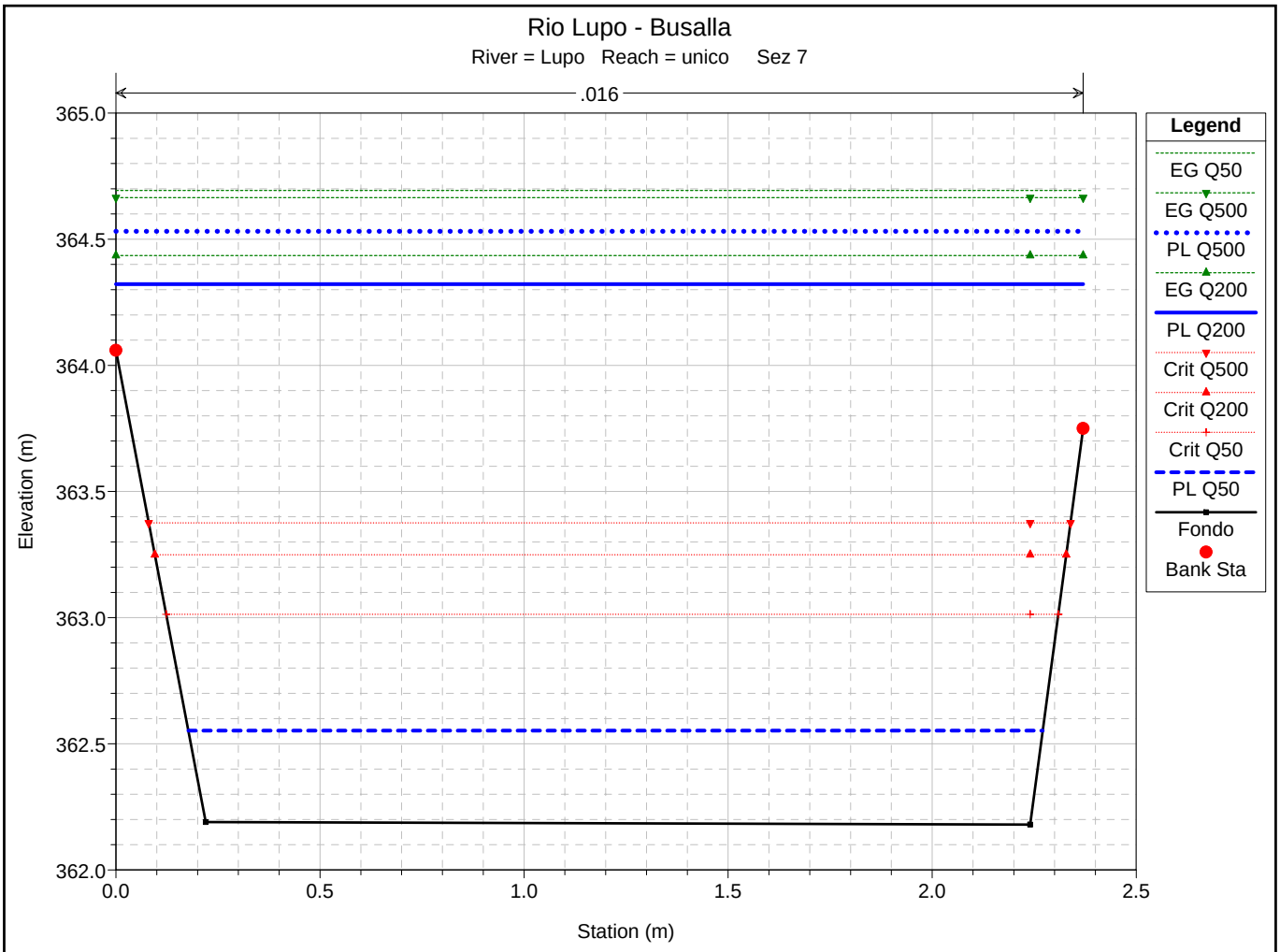
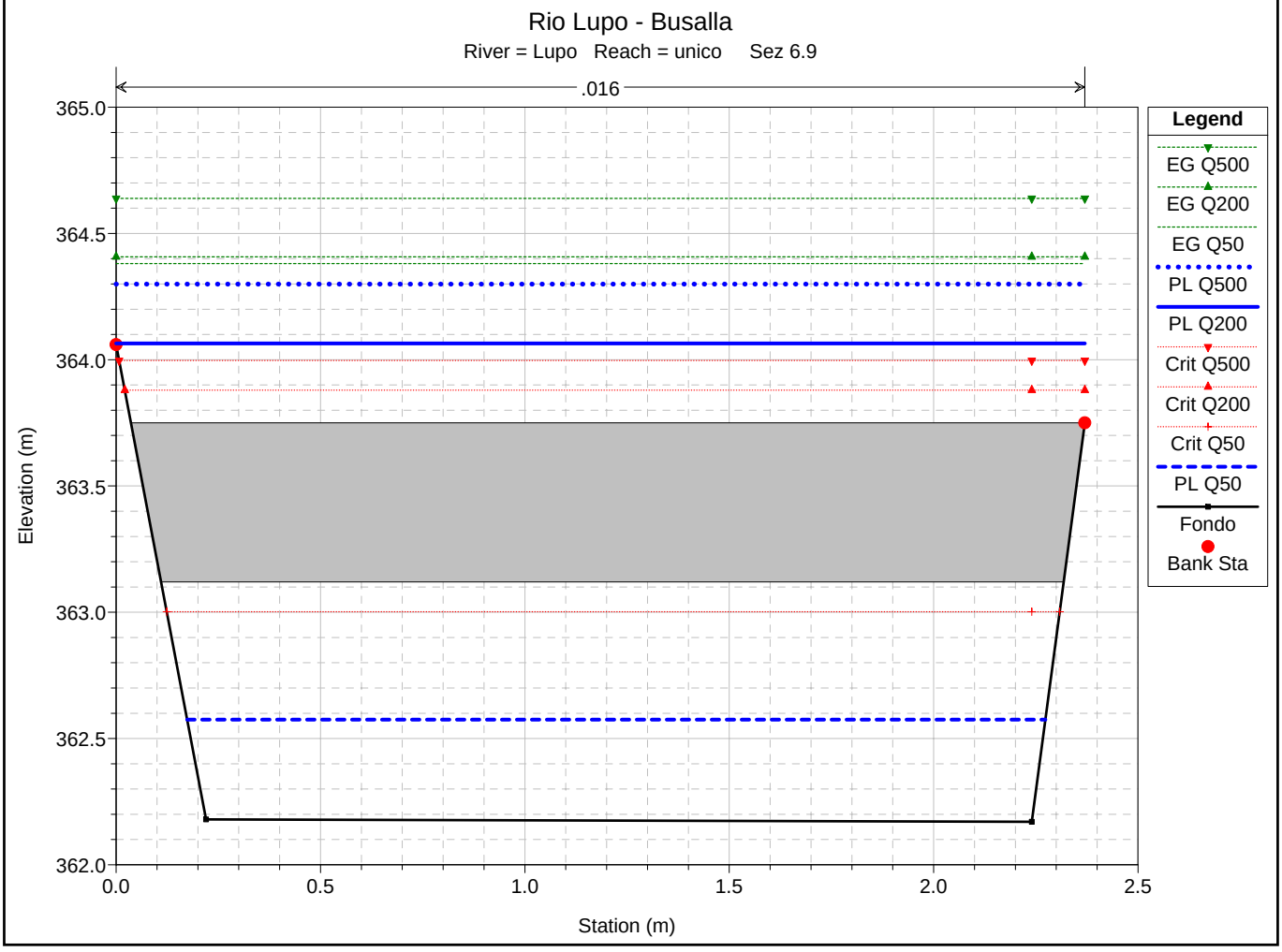
366.0
365.5
365.0
364.5
364.0
363.5
363.0
Elevation (m)
0.0
0.5
1.0
1.5
2.0
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 8
.016
365.5
365.0
364.5
364.0
363.5
363.0
362.5
362.0
Elevation (m)
0.0
0.5
1.0
1.5
2.0
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 7
.016
365.0
364.5
364.0
363.5
363.0
362.5
362.0
Elevation (m)
0.0
0.5
1.0
1.5
2.0
2.5
Station (m)
Legend
EG Q50
EG Q500
PL Q500
EG Q200
PL Q200
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 6.9
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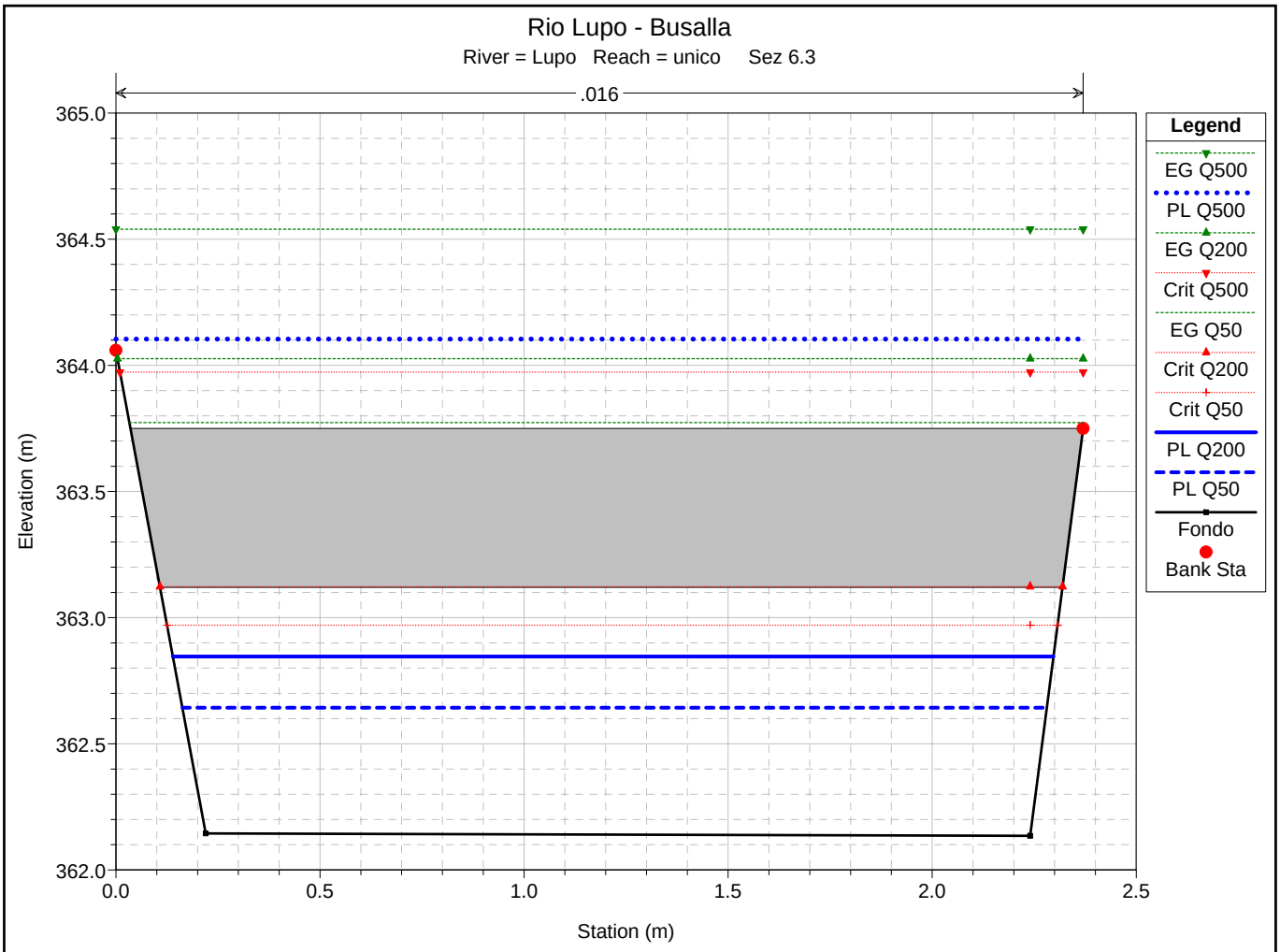
364.0
363.5
363.0
362.5
362.0
Elevation (m)
0.0
0.5
1.0
1.5
2.0
2.5
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 6.3
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363.0
362.5
362.0
Elevation (m)
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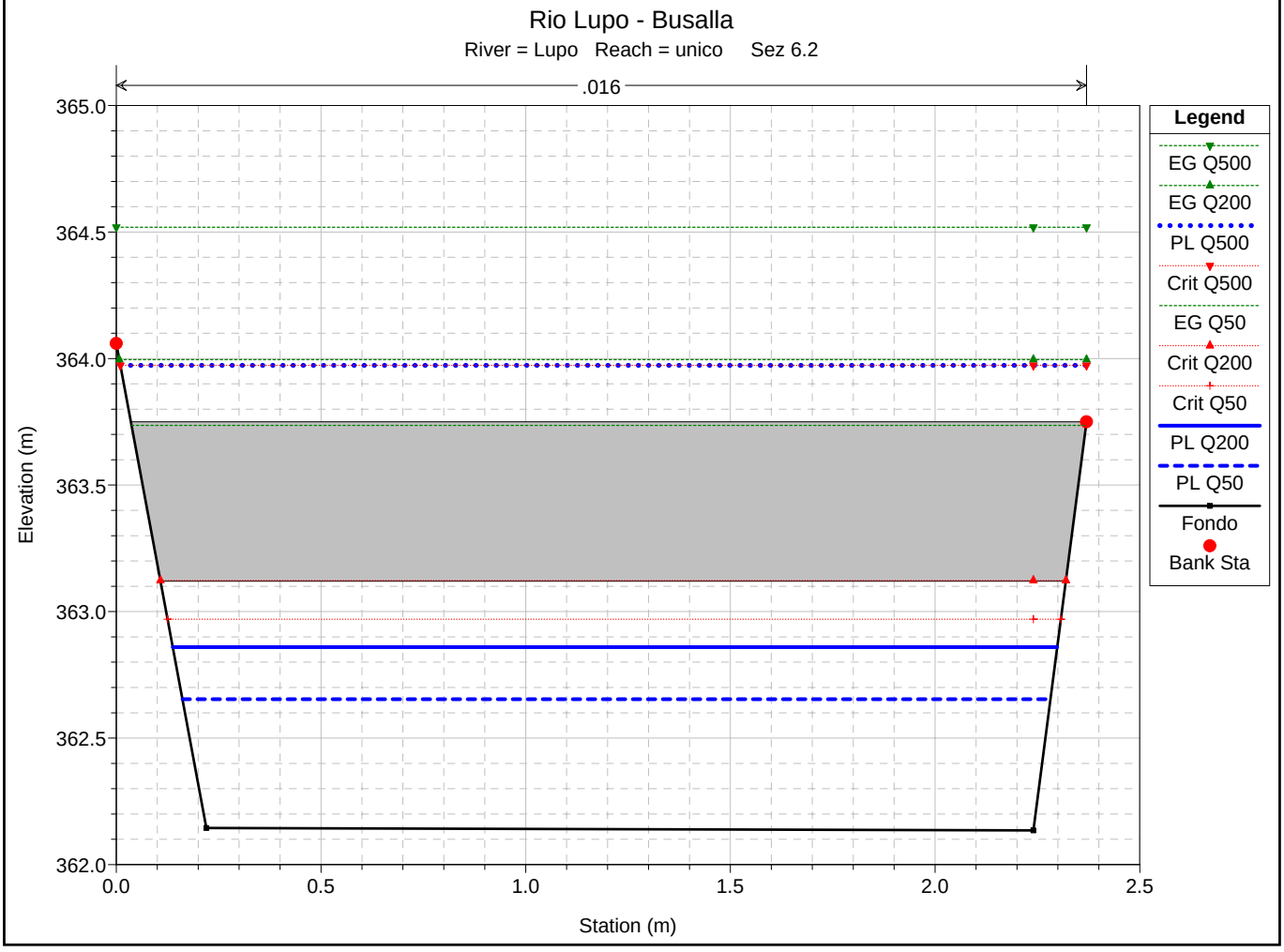
0.5
1.0
1.5
2.0
2.5
Station (m)
Legend
EG Q500
PL Q500
EG Q200
Crit Q500
EG Q50
Crit Q200
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta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River = Lupo Reach = unico Sez 6.2
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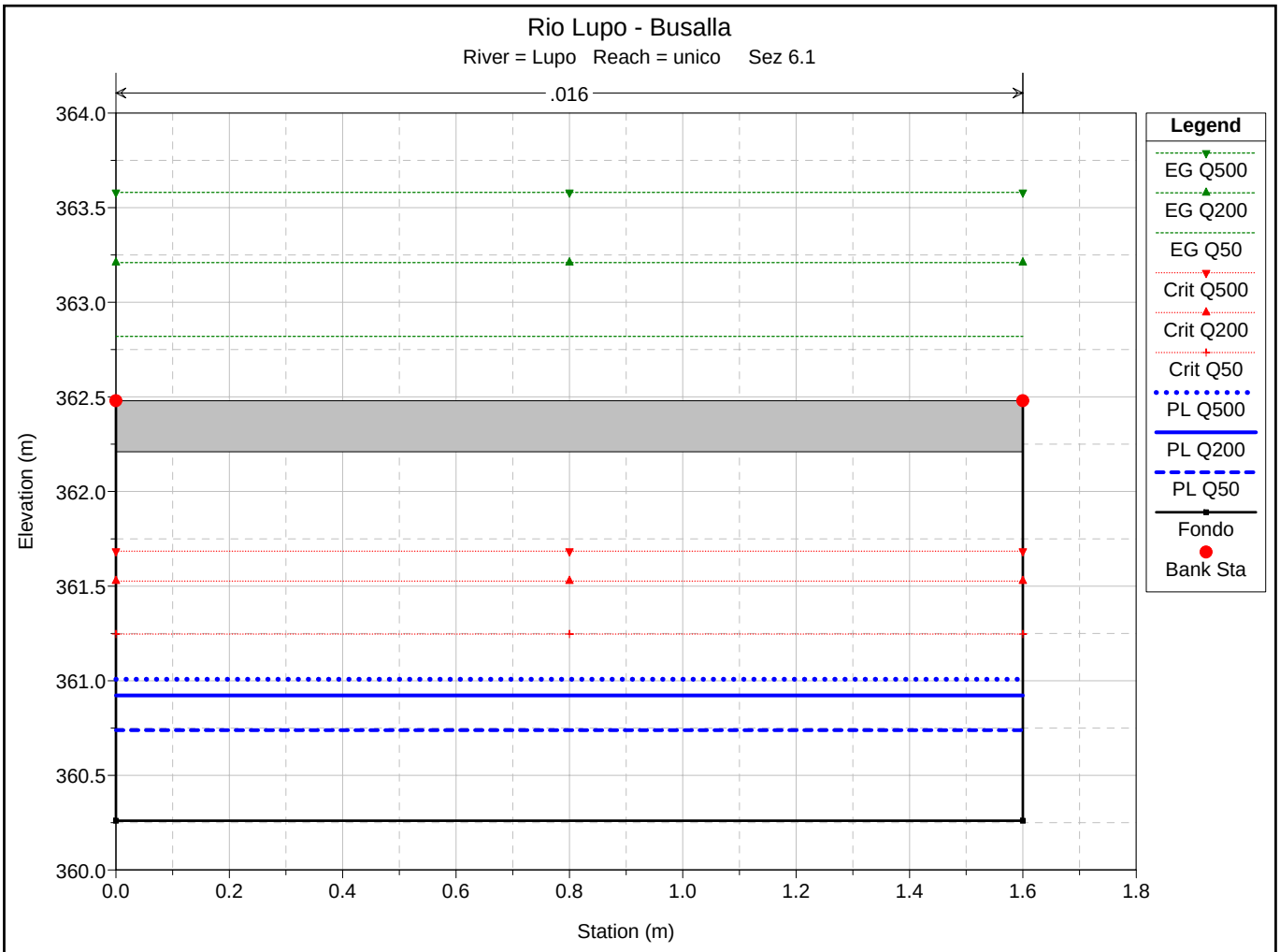
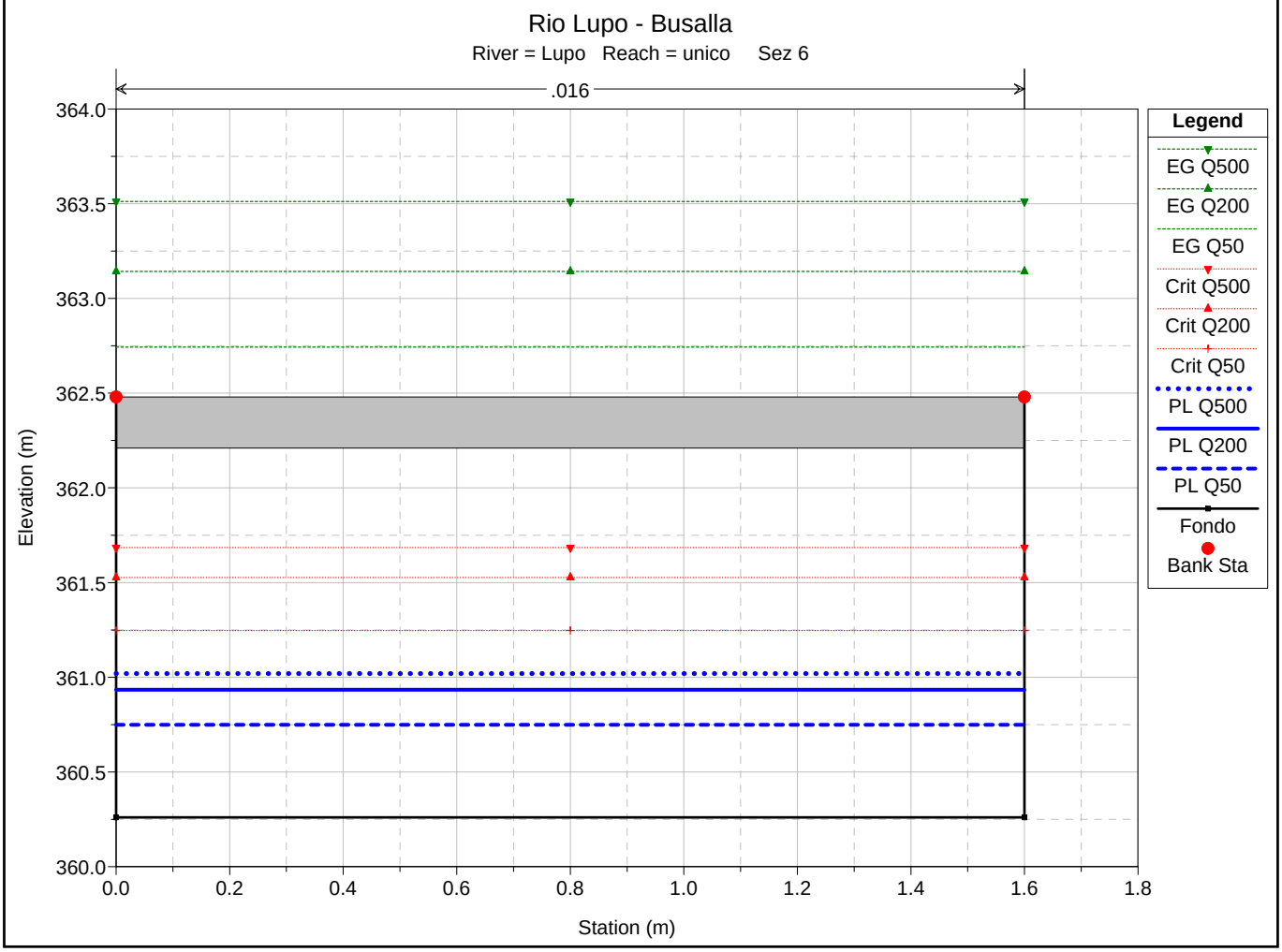
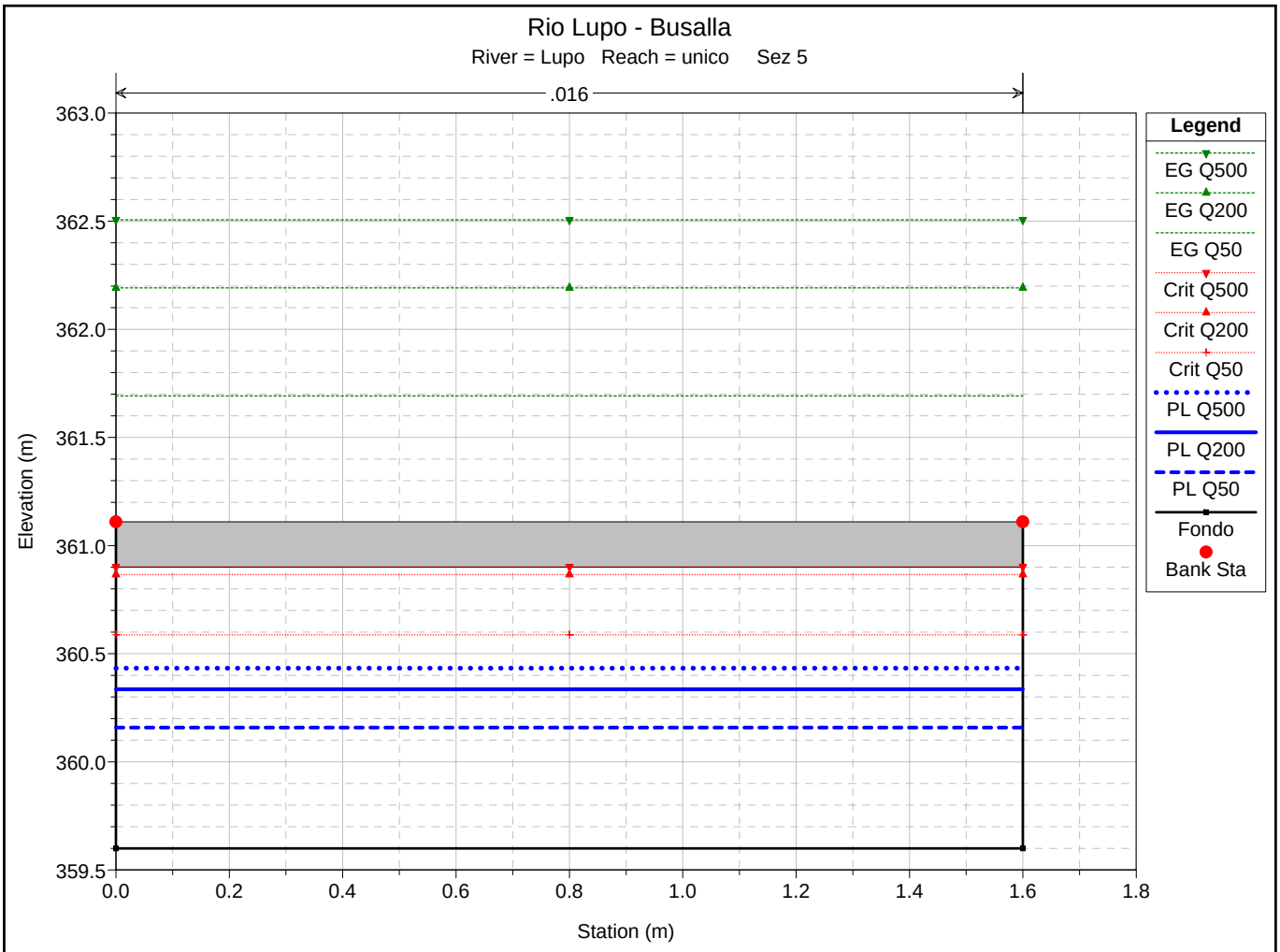
364.0
363.5
363.0
362.5
362.0
Elevation (m)
0.0
0.5
1.0
1.5
2.0
2.5
Station (m)
Legend
EG Q500
EG Q200
PL Q500
Crit Q500
EG Q50
Crit Q200
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 6.1
.016
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 6
.016
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 5
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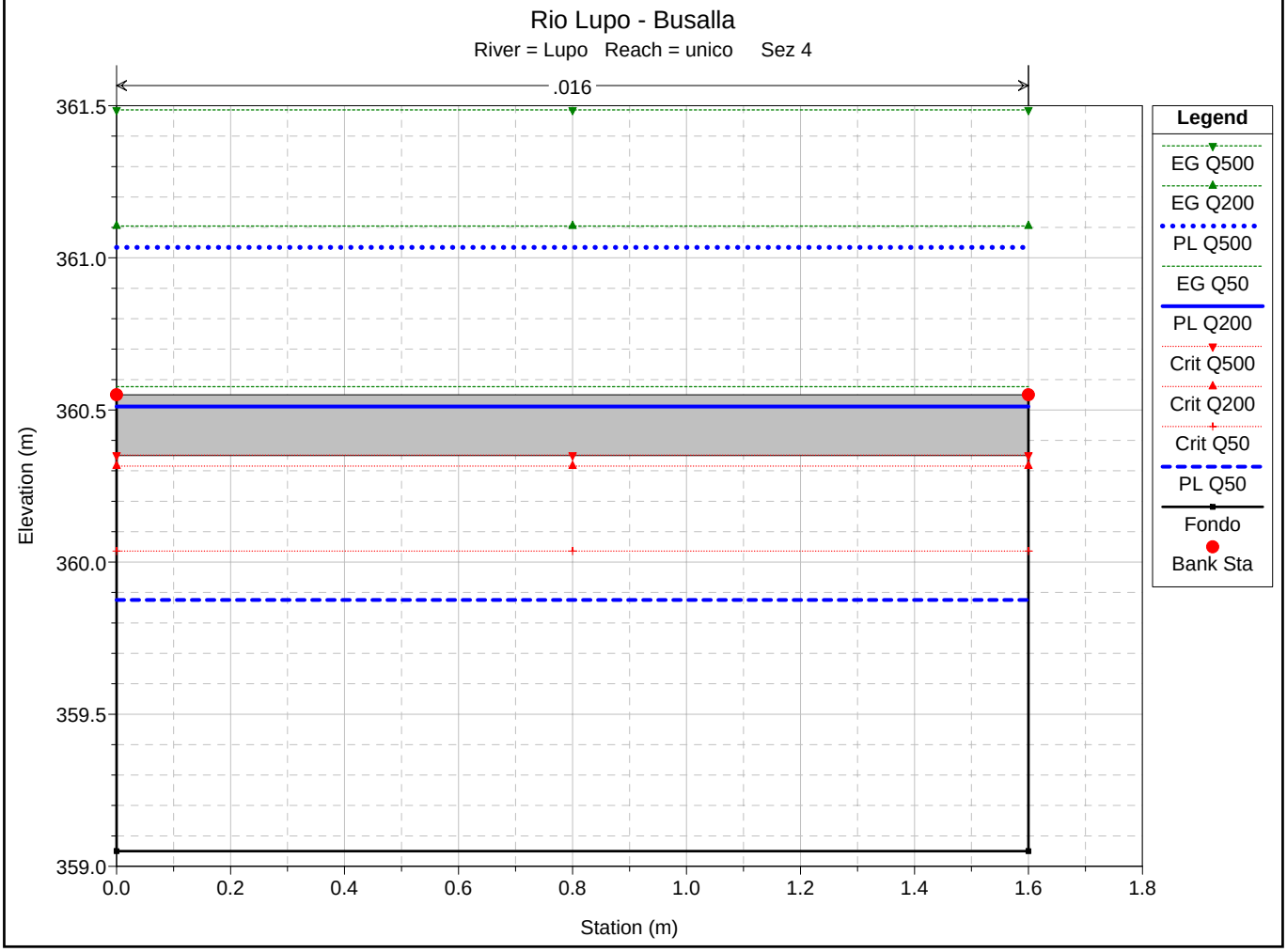
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 4
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Elevation (m)
Station (m)
Legend
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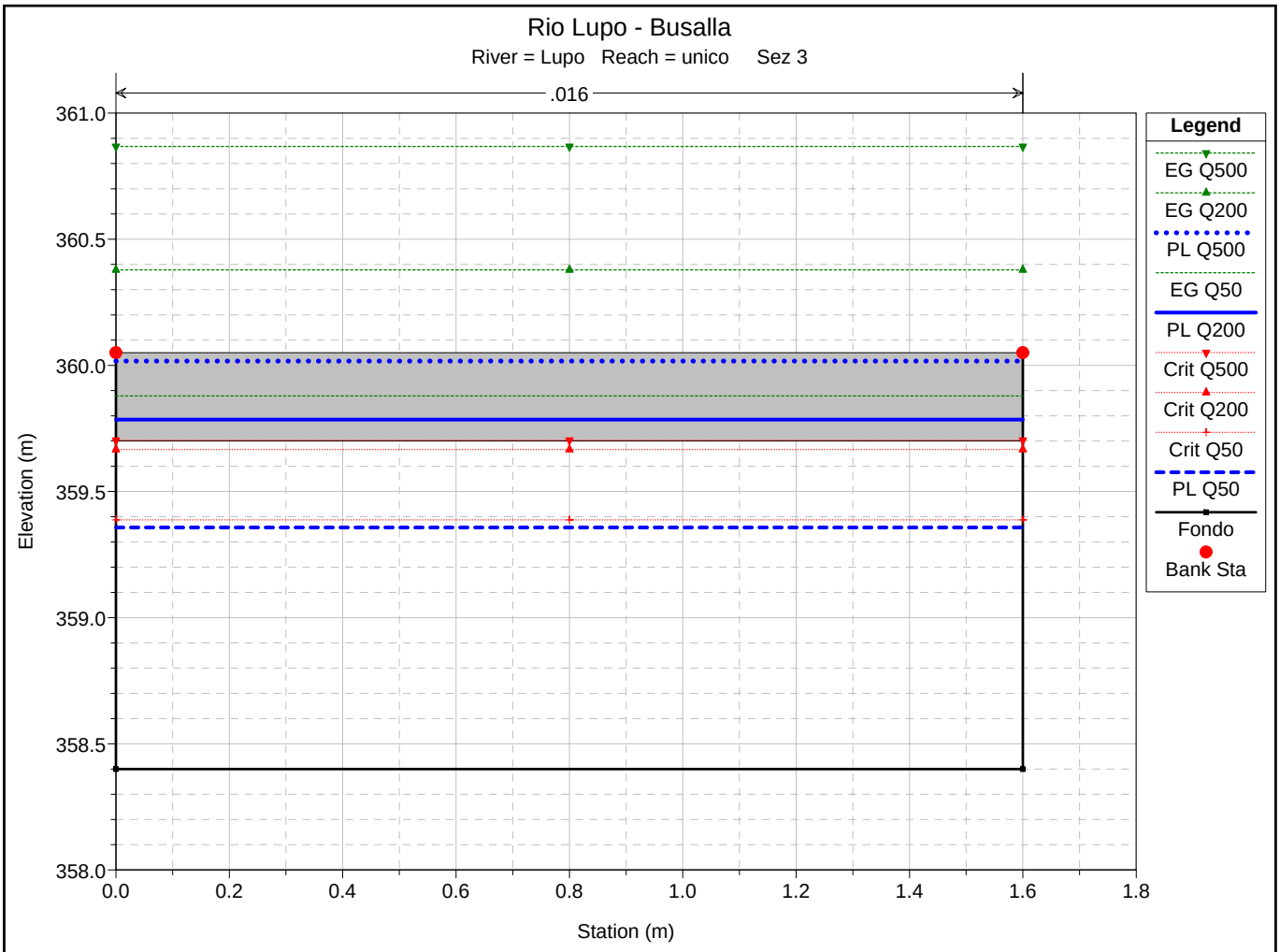
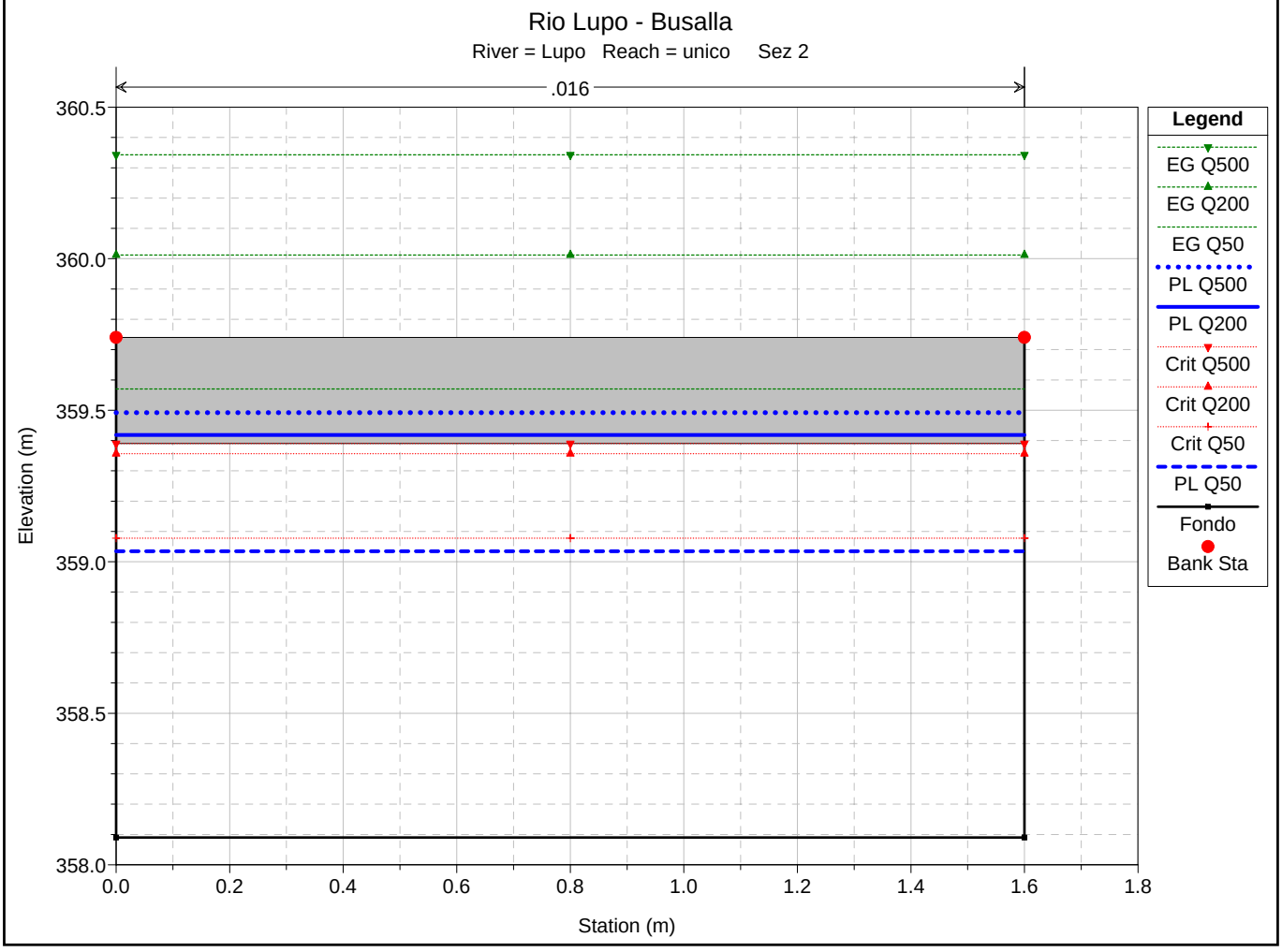
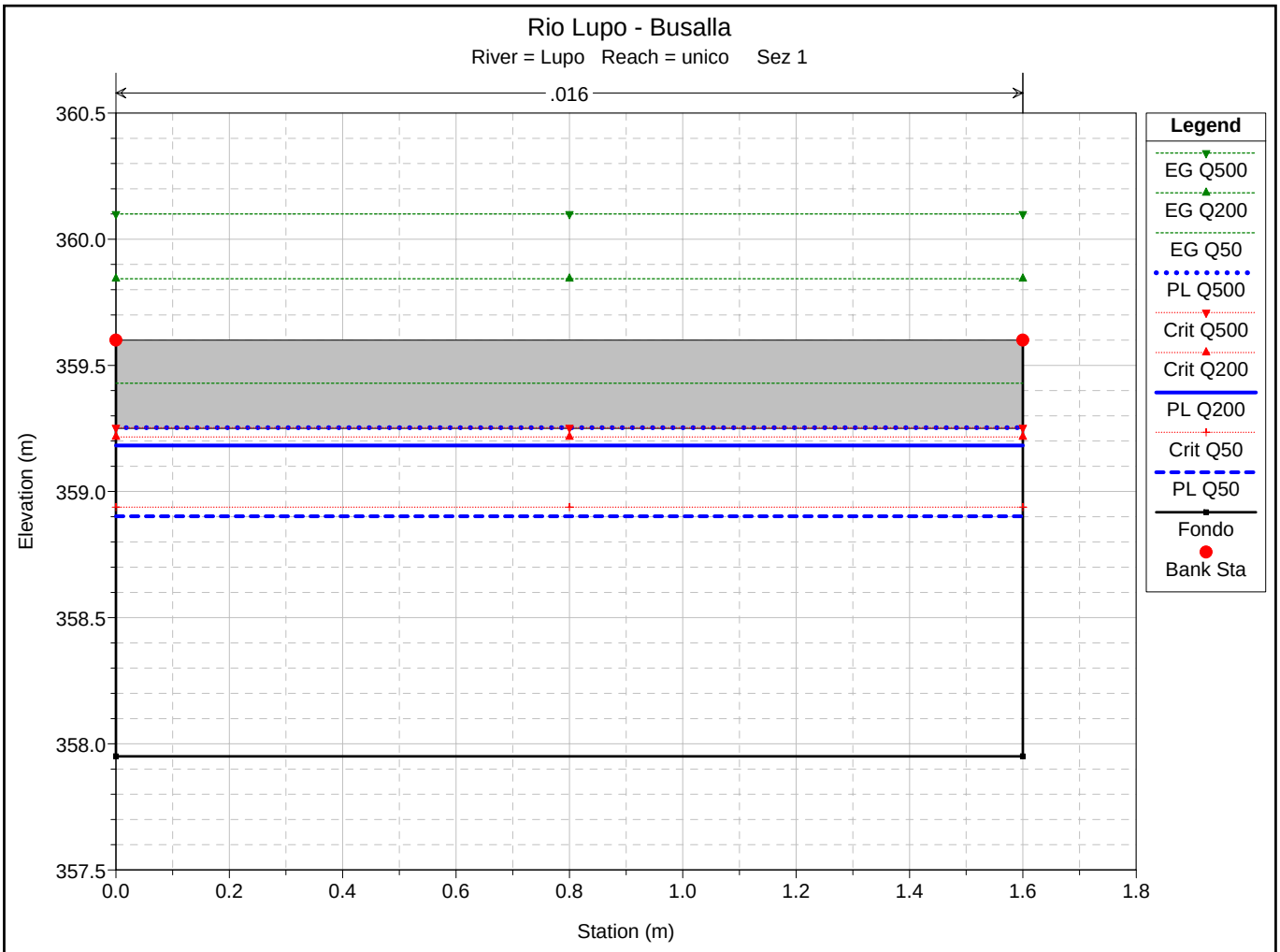
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 3
.016
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 2
.016
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Rio Lupo - Busalla
River = Lupo Reach = unico Sez 1
.016
Elevation (m)
Station (m)
360.5
360.0
359.5
359.0
358.5
358.0
357.5
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

HEC-RAS Plan: 00_Lupo River: Lupo Reach: unico

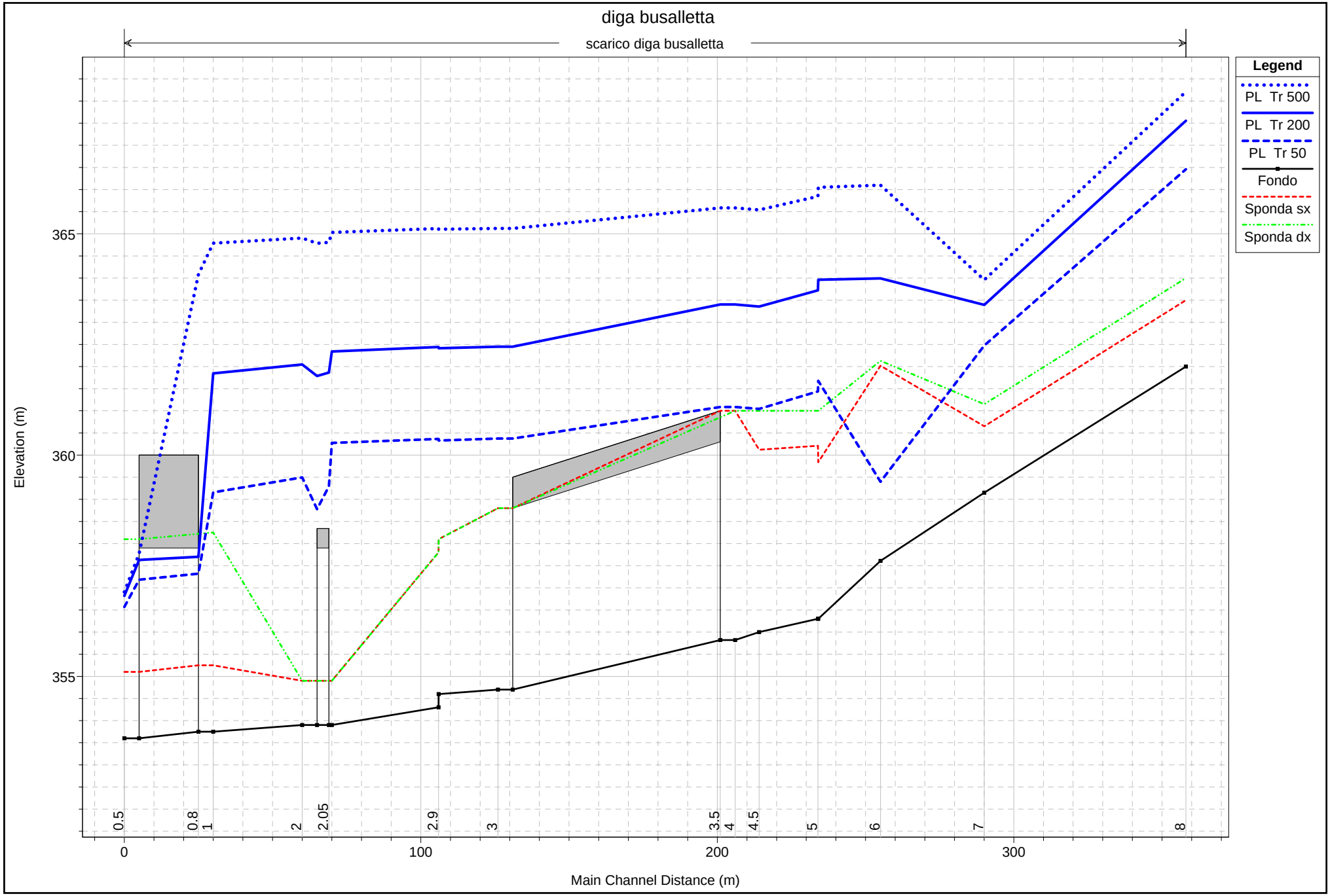
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
unico	11 Sez 11	Q50	4.90	364.73	365.53	366.84	1.31	365.54	0.01	365.53	365.79	0.003722	2.26	2.17	4.09	0.99
unico	11 Sez 11	Q200	7.10	364.73	365.68	366.84	1.16	365.54	-0.14	365.68	366.00	0.003712	2.54	2.80	4.21	1.00
unico	11 Sez 11	Q500	8.50	364.73	365.76	366.84	1.08	365.54	-0.22	365.76	366.13	0.003774	2.71	3.14	4.22	1.00
unico	10.1 Sez 10	Q50	4.90	364.24	364.62	366.03	1.41	365.54	0.92	364.90	365.62	0.024936	4.42	1.11	3.07	2.35
unico	10.1 Sez 10	Q200	7.10	364.24	364.76	366.03	1.27	365.54	0.78	365.08	365.85	0.019453	4.62	1.54	3.09	2.09
unico	10.1 Sez 10	Q500	8.50	364.24	364.85	366.03	1.18	365.54	0.69	365.19	365.98	0.017354	4.72	1.80	3.11	1.98
unico	10 Sez 10	Q50	4.90	363.59	363.95	366.03	2.08	365.54	1.59	364.30	365.53	0.049495	5.57	0.88	3.01	3.28
unico	10 Sez 10	Q200	7.10	363.59	364.06	366.03	1.97	365.54	1.48	364.49	365.76	0.037256	5.78	1.23	3.01	2.89
unico	10 Sez 10	Q500	8.50	363.59	364.14	366.03	1.89	365.54	1.40	364.59	365.90	0.032701	5.88	1.45	3.01	2.71
unico	9 Sez 9	Q50	4.90	363.42	363.81	365.97	2.16	365.55	1.74	364.19	365.47	0.048242	5.70	0.86	2.79	3.27
unico	9 Sez 9	Q200	7.10	363.42	363.93	365.97	2.04	365.55	1.62	364.38	365.72	0.036763	5.92	1.20	2.81	2.89
unico	9 Sez 9	Q500	8.50	363.42	364.01	365.97	1.96	365.55	1.54	364.49	365.85	0.032442	6.02	1.41	2.83	2.72
unico	8.1 Sez 8	Q50	4.90	363.00	363.47	365.24	1.77	364.74	1.27	363.90	365.14	0.039767	5.73	0.86	1.84	2.68
unico	8.1 Sez 8	Q200	7.10	363.00	363.65	365.24	1.59	364.74	1.09	364.16	365.44	0.032170	5.92	1.20	1.85	2.35
unico	8.1 Sez 8	Q500	8.50	363.00	363.77	365.24	1.47	364.74	0.97	364.30	365.61	0.029318	6.02	1.41	1.86	2.20
unico	8 Sez 8	Q50	4.90	362.14	362.59	365.24	2.65	364.74	2.15	363.11	365.01	0.065842	6.90	0.71	1.75	3.46
unico	8 Sez 8	Q200	7.10	362.14	362.75	365.24	2.49	364.74	1.99	363.36	365.32	0.052216	7.10	1.00	1.77	3.02
unico	8 Sez 8	Q500	8.50	362.14	362.85	365.24	2.39	364.74	1.89	363.52	365.50	0.047221	7.21	1.18	1.79	2.83
unico	7 Sez 7	Q50	4.90	362.18	362.55	364.06	1.51	363.75	1.20	363.01	364.69	0.060456	6.48	0.76	2.09	3.44
unico	7 Sez 7	Q200	7.10	362.18	364.32	364.06	-0.26	363.75	-0.57	363.25	364.44	0.000832	1.49	4.76	2.37	0.34
unico	7 Sez 7	Q500	8.50	362.18	364.53	364.06	-0.47	363.75	-0.78	363.38	364.66	0.000933	1.62	5.25	2.37	0.35
unico	6.9 Sez 6.9	Q50	4.90	362.17	362.57	363.12	0.55	363.12	0.55	363.00	364.38	0.046958	5.95	0.82	2.10	3.04
unico	6.9 Sez 6.9	Q200	7.10	362.17	364.06	363.12	-0.94	363.12	-0.94	363.88	364.41	0.008542	2.59	2.74	2.37	0.61
unico	6.9 Sez 6.9	Q500	8.50	362.17	364.30	363.12	-1.18	363.12	-1.18	364.00	364.64	0.007062	2.58	3.29	2.37	0.57
unico	6.3 Sez 6.3	Q50	4.90	362.14	362.64	363.12	0.48	363.12	0.48	362.97	363.77	0.023621	4.71	1.04	2.12	2.14
unico	6.3 Sez 6.3	Q200	7.10	362.14	362.85	363.12	0.27	363.12	0.27	363.12	364.03	0.018340	4.81	1.47	2.16	1.86
unico	6.3 Sez 6.3	Q500	8.50	362.14	364.10	363.12	-0.98	363.12	-0.98	363.97	364.54	0.010239	2.92	2.91	2.37	0.67
unico	6.2 Sez 6.2	Q50	4.90	362.14	362.65	363.12	0.47	363.12	0.47	362.97	363.74	0.022185	4.61	1.06	2.12	2.08
unico	6.2 Sez 6.2	Q200	7.10	362.14	362.86	363.12	0.26	363.12	0.26	363.12	364.00	0.017386	4.72	1.50	2.16	1.81
unico	6.2 Sez 6.2	Q500	8.50	362.14	363.97	363.12	-0.85	363.12	-0.85	363.97	364.52	0.014354	3.27	2.60	2.36	0.78
unico	6.1 Sez 6.1	Q50	4.90	360.26	360.74	362.21	1.47	362.21	1.47	361.25	362.82	0.052125	6.39	0.77	1.60	2.95
unico	6.1 Sez 6.1	Q200	7.10	360.26	360.92	362.21	1.29	362.21	1.29	361.53	363.21	0.044500	6.70	1.06	1.60	2.63
unico	6.1 Sez 6.1	Q500	8.50	360.26	361.01	362.21	1.20	362.21	1.20	361.68	363.58	0.045949	7.11	1.20	1.60	2.62
unico	6 Sez 6	Q50	4.90	360.26	360.75	362.21	1.46	362.21	1.46	361.25	362.74	0.049078	6.26	0.78	1.60	2.85
unico	6 Sez 6	Q200	7.10	360.26	360.93	362.21	1.28	362.21	1.28	361.53	363.14	0.042428	6.58	1.08	1.60	2.56
unico	6 Sez 6	Q500	8.50	360.26	361.02	362.21	1.19	362.21	1.19	361.68	363.51	0.044011	6.99	1.22	1.60	2.56
unico	5 Sez 5	Q50	4.90	359.60	360.16	360.90	0.74	360.90	0.74	360.59	361.69	0.033959	5.49	0.89	1.60	2.34
unico	5 Sez 5	Q200	7.10	359.60	360.34	360.90	0.56	360.90	0.56	360.87	362.19	0.033526	6.04	1.18	1.60	2.25
unico	5 Sez 5	Q500	8.50	359.60	360.43	360.90	0.47	360.90	0.47	360.90	362.51	0.034443	6.38	1.33	1.60	2.23
unico	4 Sez 4	Q50	4.90	359.05	359.88	360.35	0.47	360.35	0.47	360.04	360.58	0.011707	3.71	1.32	1.60	1.30

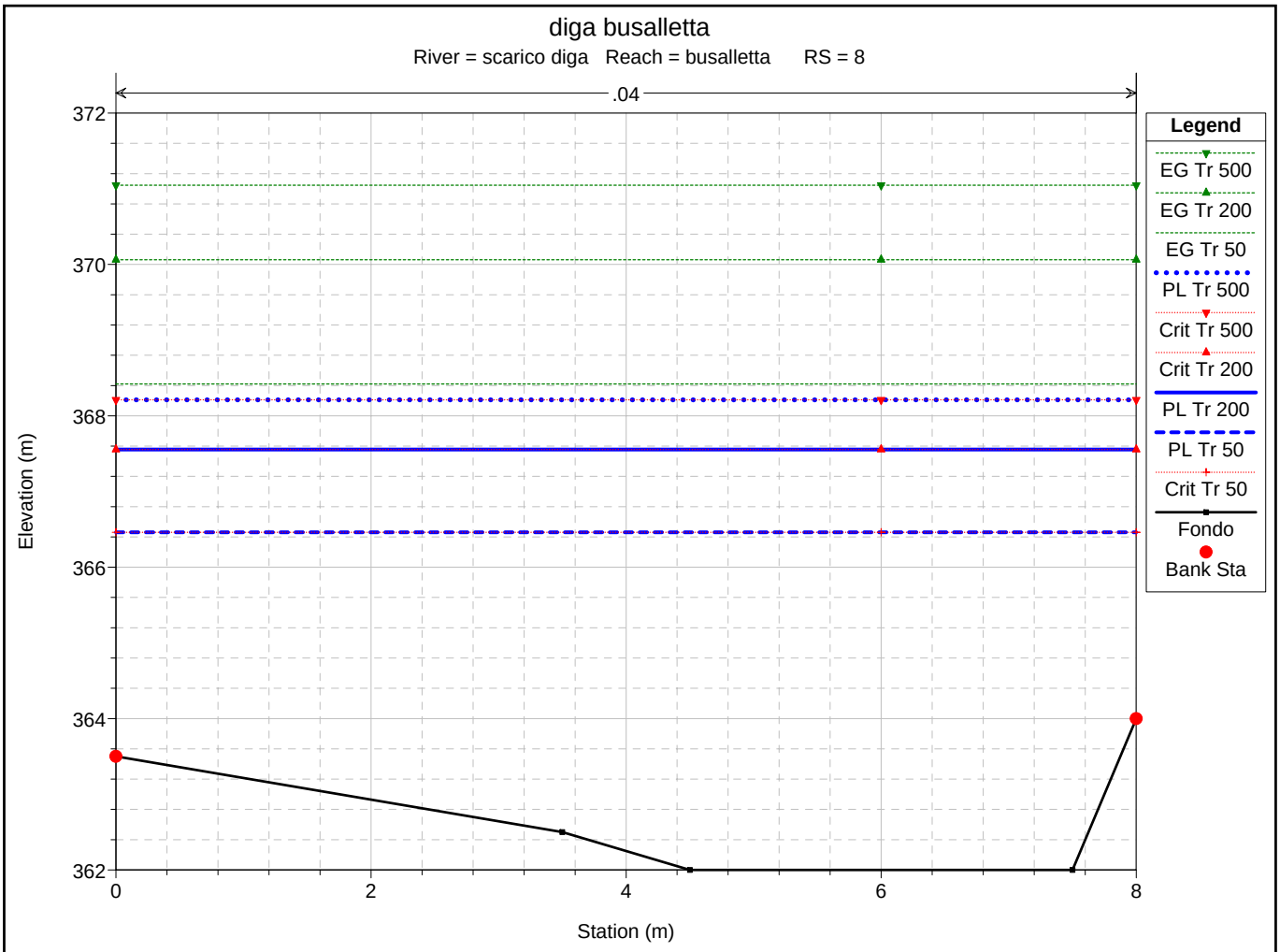
HEC-RAS Plan: 00_Lupo River: Lupo Reach: unico (Continued)

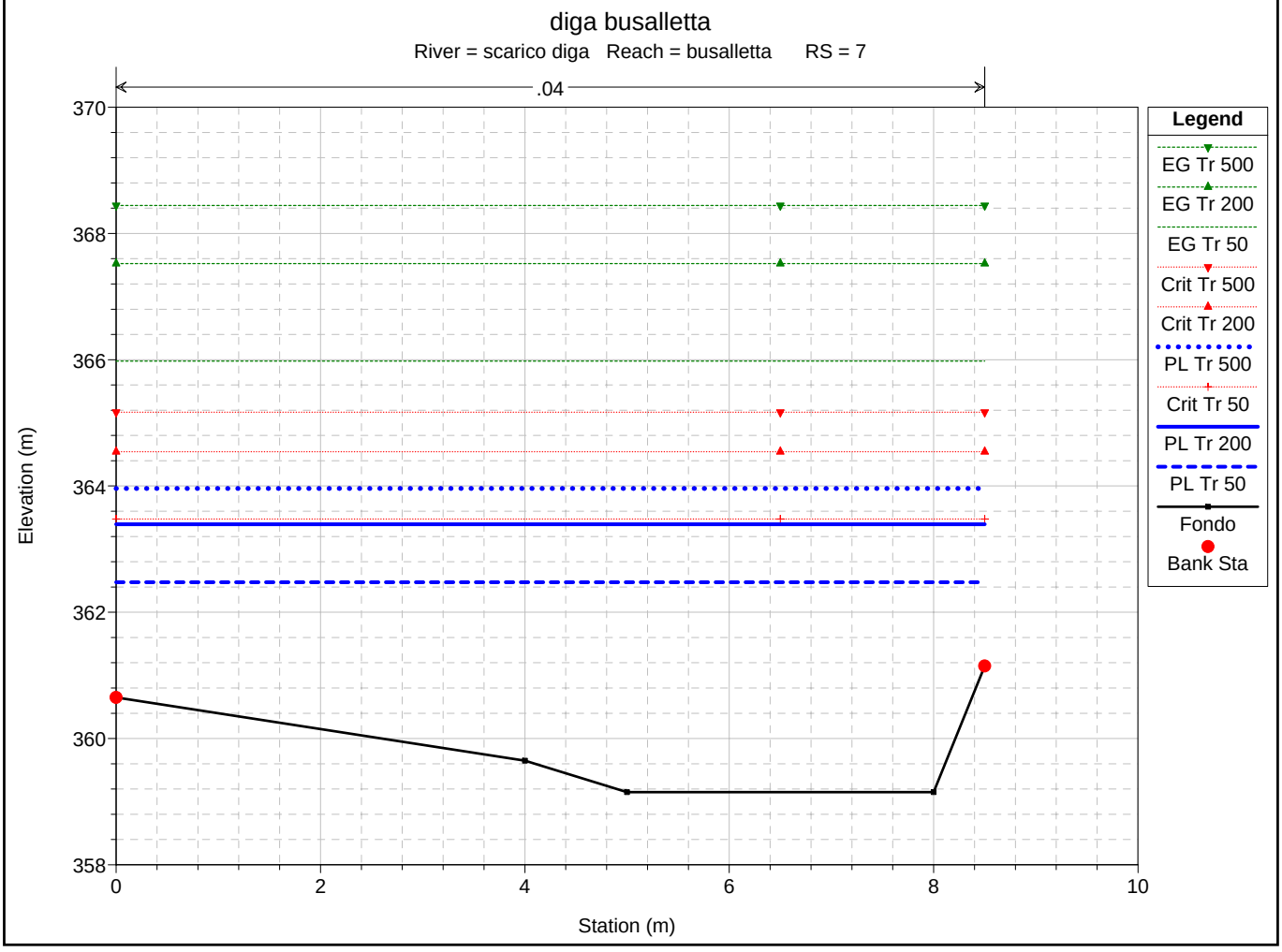
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
unico	4 Sez 4	Q200	7.10	359.05	360.51	360.35	-0.16	360.35	-0.16	360.32	361.10	0.011702	3.41	2.08		0.90
unico	4 Sez 4	Q500	8.50	359.05	361.03	360.35	-0.68	360.35	-0.68	360.35	361.49	0.008076	2.98	2.86	1.60	0.67
unico	3 Sez 3	Q50	4.90	358.40	359.36	359.70	0.34	359.70	0.34	359.39	359.88	0.007926	3.20	1.53	1.60	1.04
unico	3 Sez 3	Q200	7.10	358.40	359.78	359.70	-0.08	359.70	-0.08	359.67	360.38	0.011710	3.41	2.08		0.93
unico	3 Sez 3	Q500	8.50	358.40	360.02	359.70	-0.32	359.70	-0.32	359.70	360.87	0.016783	4.09	2.08		1.03
unico	2 Sez 2	Q50	4.90	358.09	359.03	359.39	0.36	359.39	0.36	359.08	359.57	0.008214	3.24	1.51	1.60	1.07
unico	2 Sez 2	Q200	7.10	358.09	359.42	359.39	-0.03	359.39	-0.03	359.36	360.01	0.011711	3.41	2.08		0.95
unico	2 Sez 2	Q500	8.50	358.09	359.49	359.39	-0.10	359.39	-0.10	359.39	360.34	0.016784	4.09	2.08		1.10
unico	1 Sez 1	Q50	4.90	357.95	358.90	359.25	0.35	359.25	0.35	358.94	359.43	0.008049	3.22	1.52	1.60	1.05
unico	1 Sez 1	Q200	7.10	357.95	359.18	359.25	0.07	359.25	0.07	359.22	359.84	0.008714	3.60	1.97	1.60	1.04
unico	1 Sez 1	Q500	8.50	357.95	359.25	359.25	0.00	359.25	0.00	359.25	360.10	0.010830	4.08	2.08	1.60	1.14

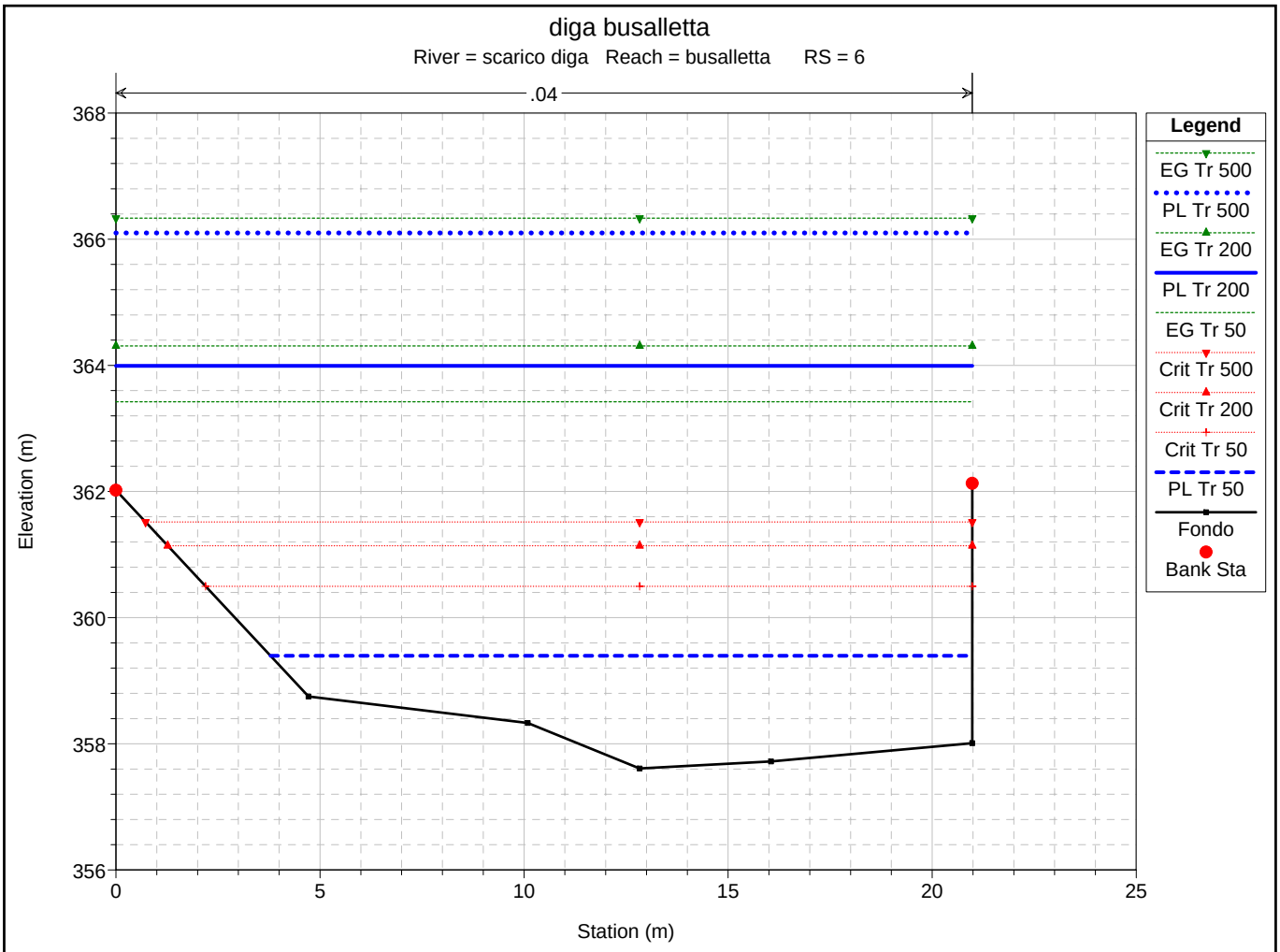
Torrente Busalletta

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


diga busalletta
scarico diga busalletta
Legend
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Sponda sx
Sponda dx
Elevation (m)
365
360
355
0.5
0.8
1
2
2.05
2.9
3
3.5
4
4.5
5
6
7
8
0
100
200
300
Main Channel Distance (m)


diga busalletta
River = scarico diga Reach = busalletta RS = 8
.04
Elevation (m)
372
370
368
366
364
362
0
2
4
6
8
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 7
.04
Elevation (m)
370
368
366
364
362
360
358
0
2
4
6
8
10
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
PL Tr 500
Crit Tr 50
PL Tr 200
PL Tr 50
Fondo
Bank Sta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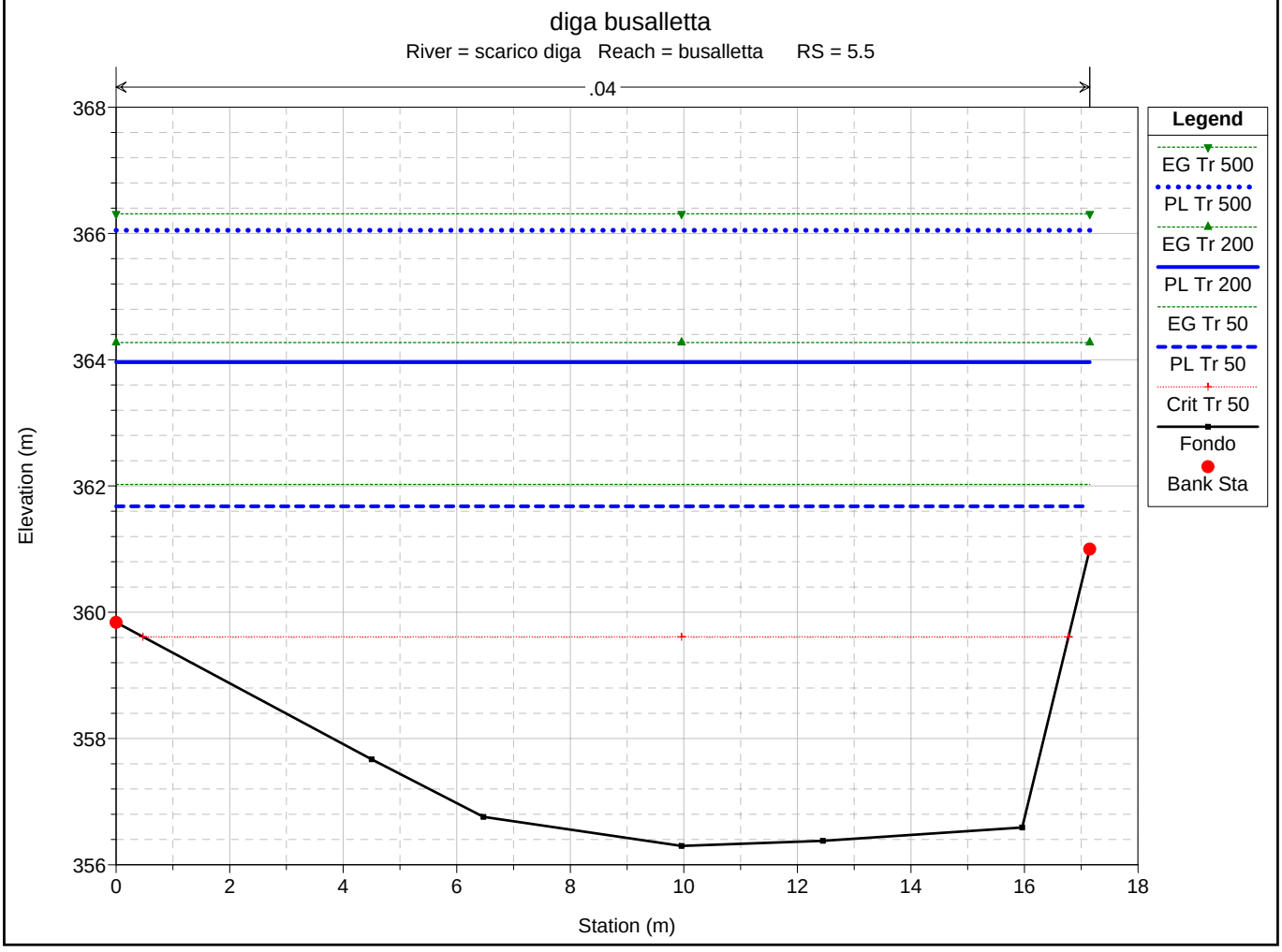
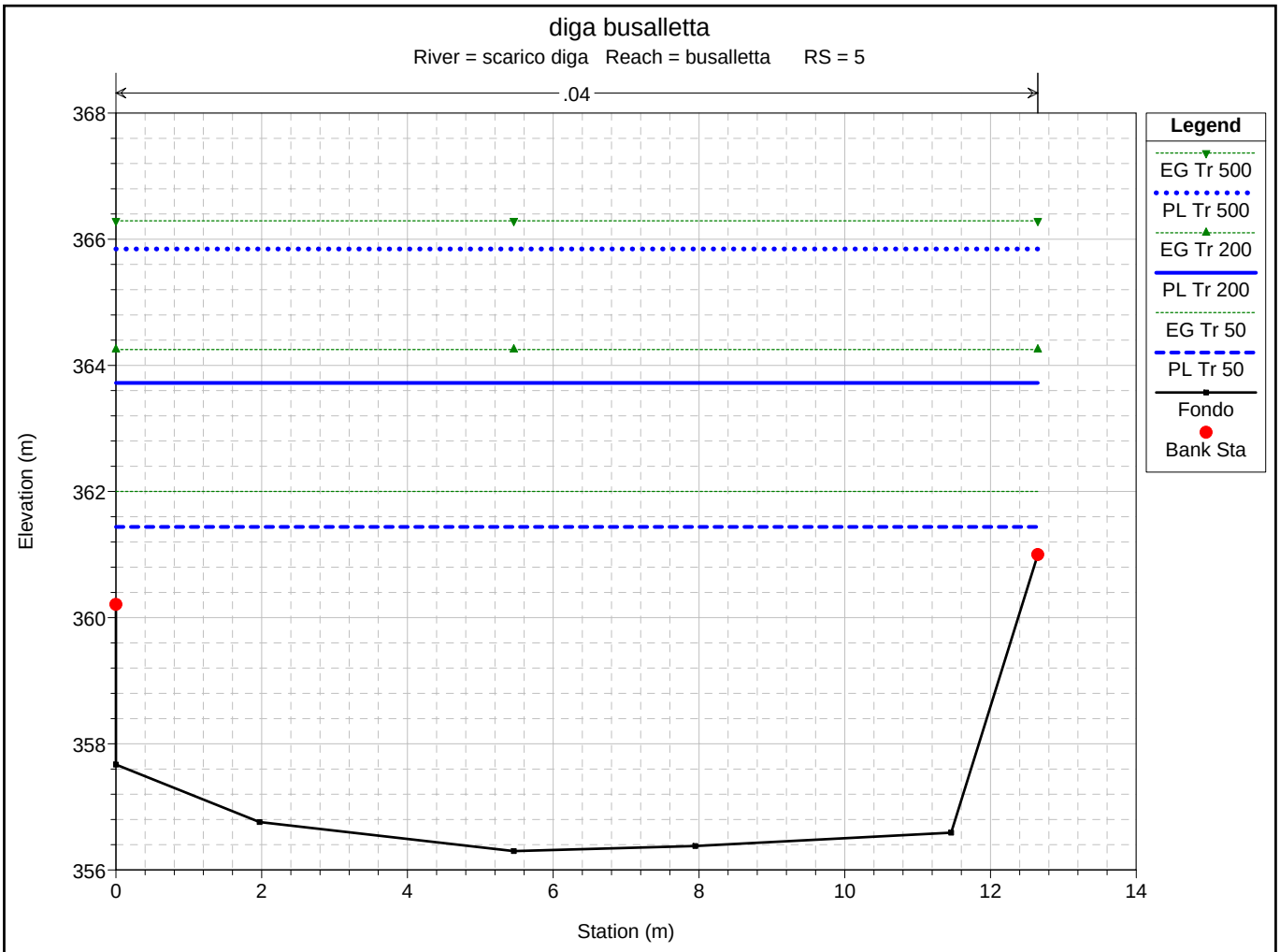
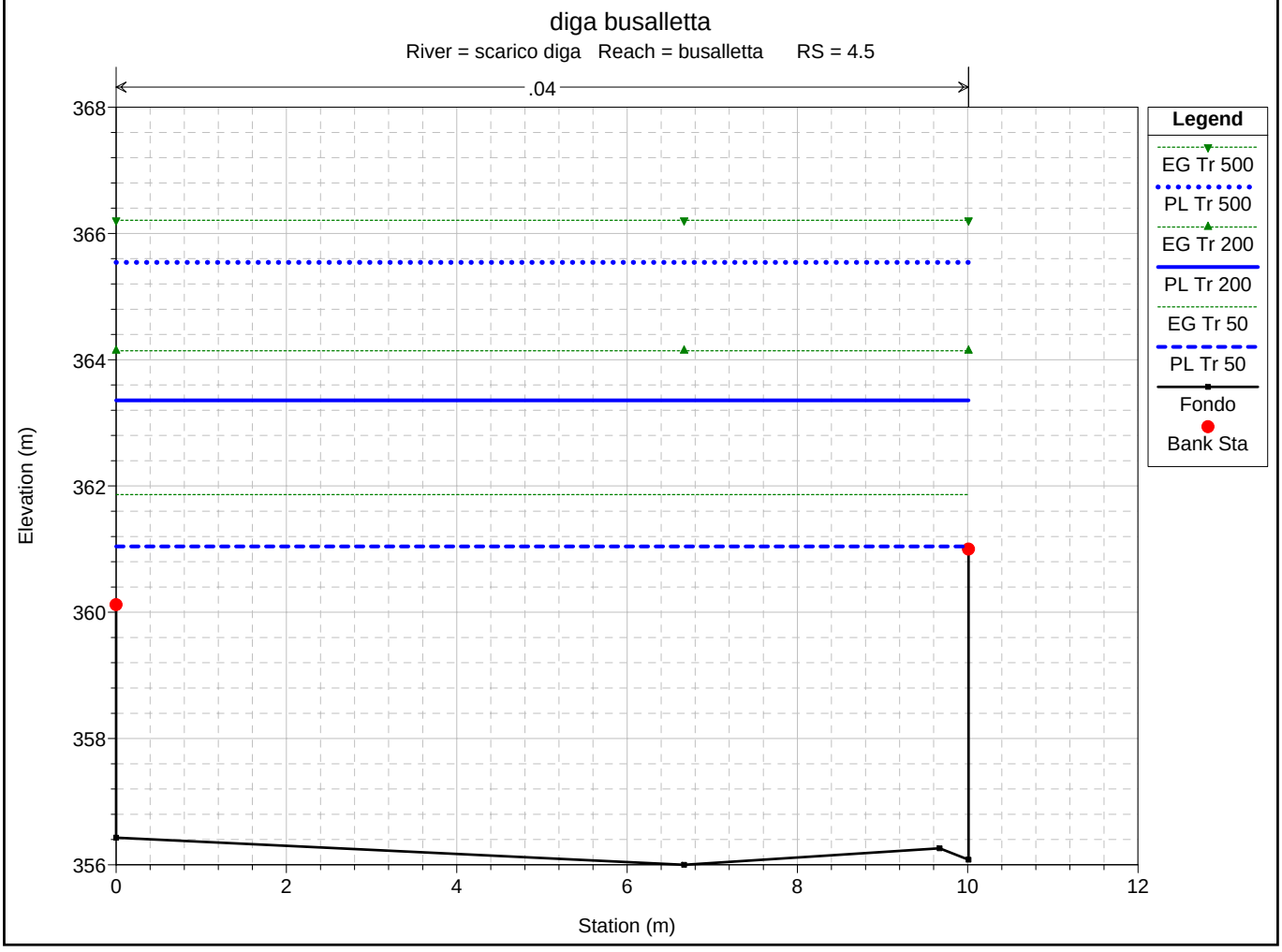
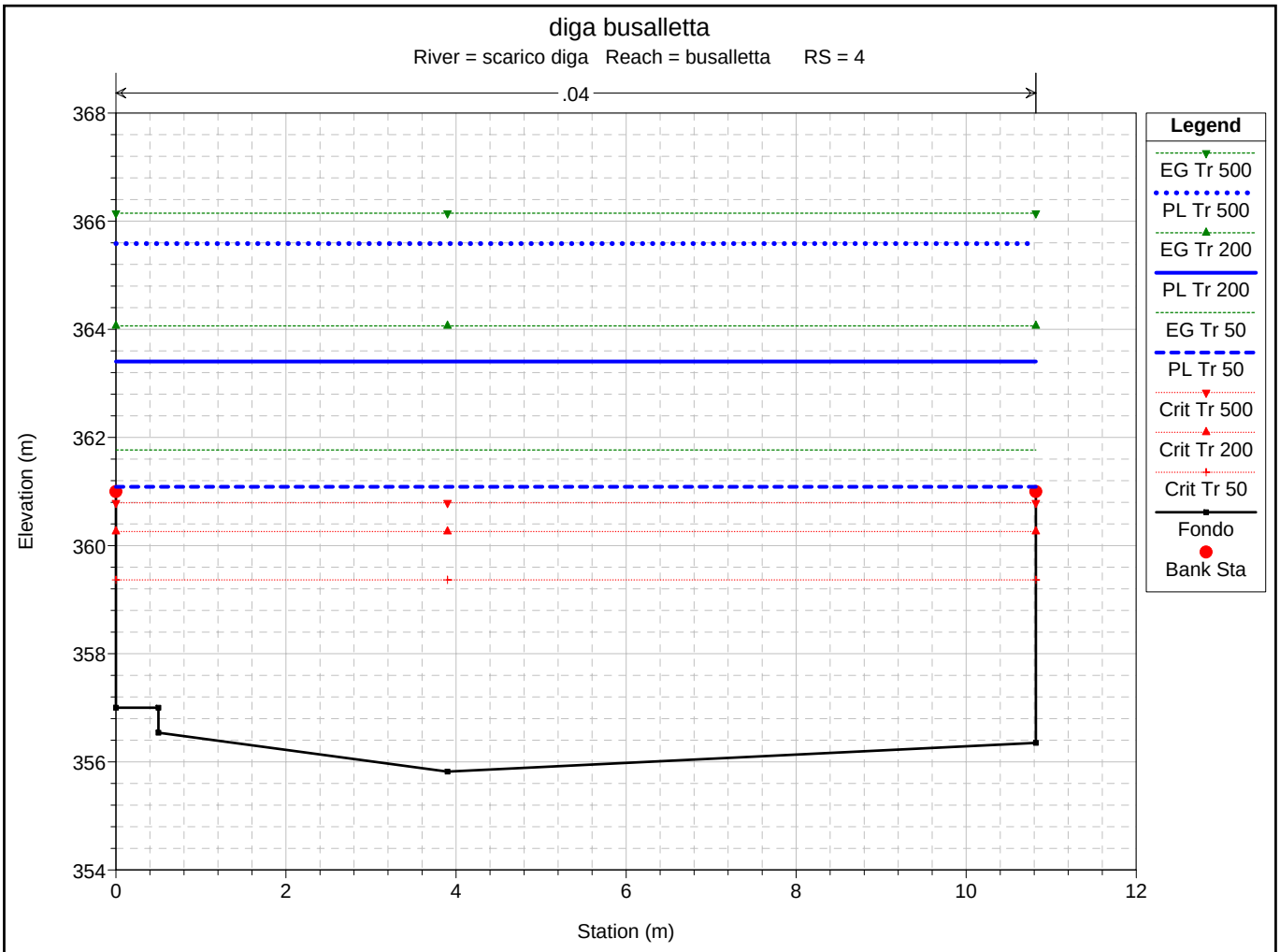
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 5.5
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 5
.04
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta
Elevation (m)
Station (m)
368
366
364
362
360
358
356
0
2
4
6
8
10
12
14


diga busalletta
River = scarico diga Reach = busalletta RS = 4.5
.04
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta
Elevation (m)
Station (m)
368
366
364
362
360
358
356
0
2
4
6
8
10
12


diga busalletta
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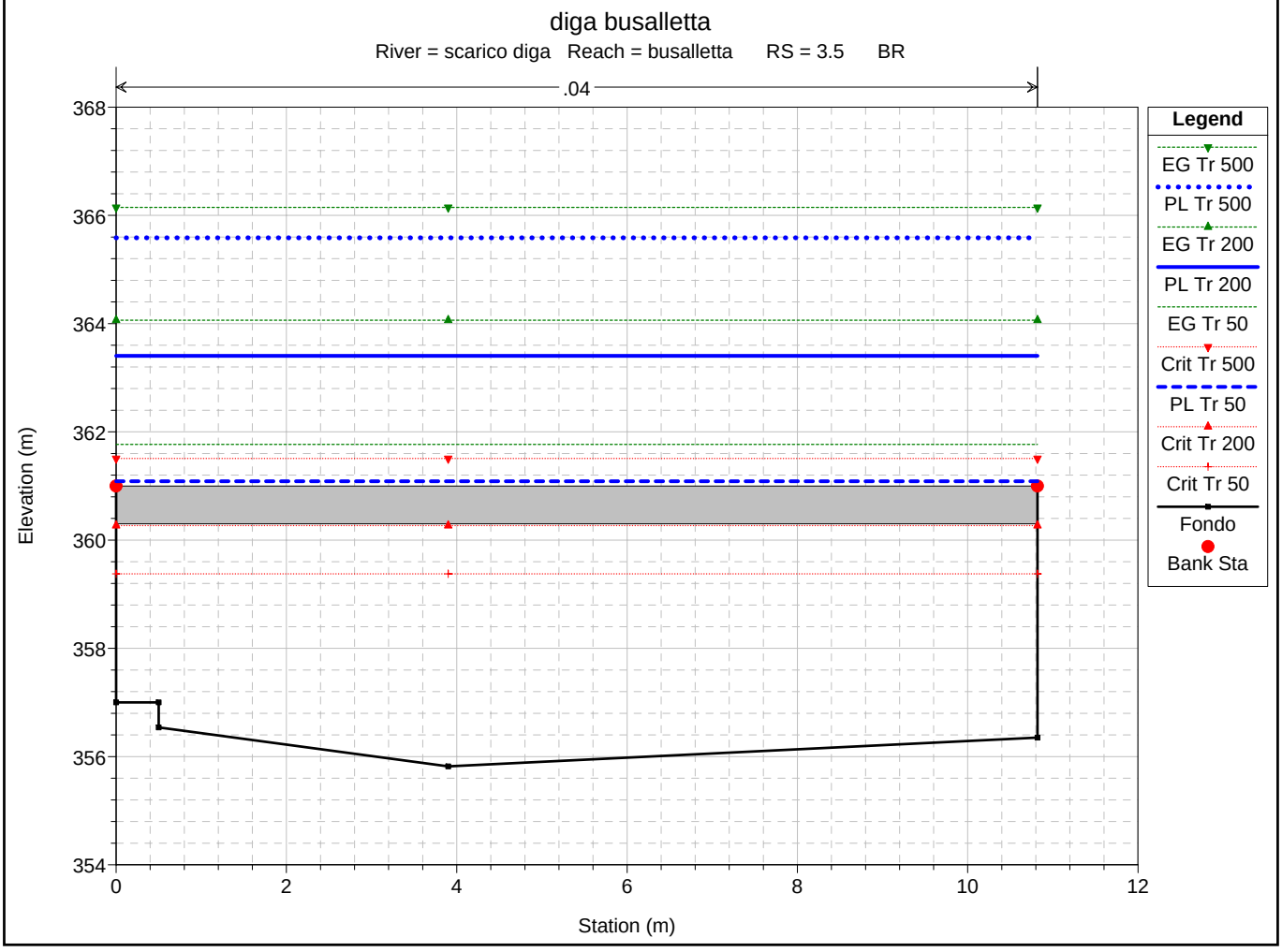
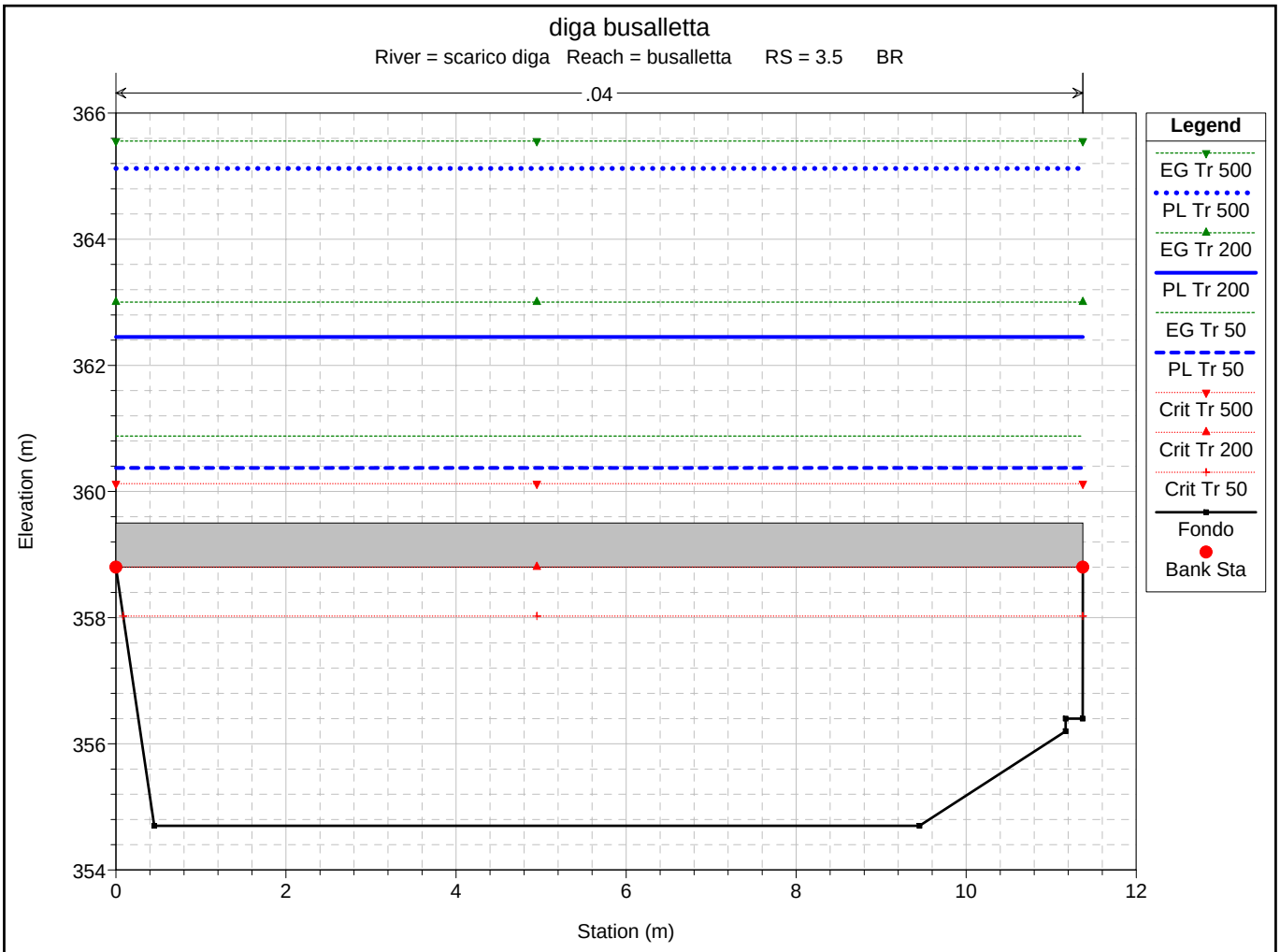
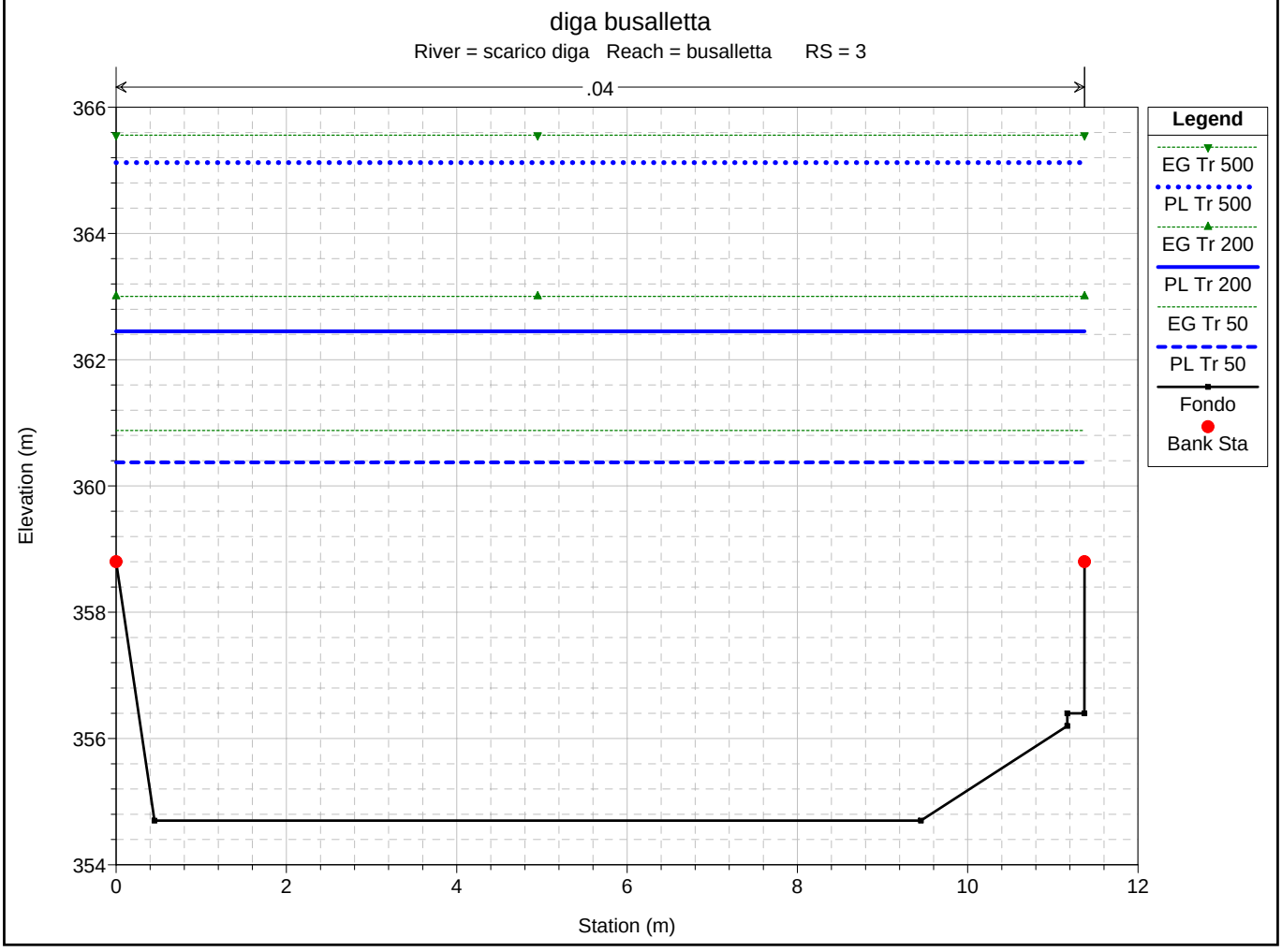
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 3.5 BR
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 3.5 BR
.04
Elevation (m)
366
364
362
360
358
356
354
0
2
4
6
8
10
12
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Bank Sta


diga busalletta
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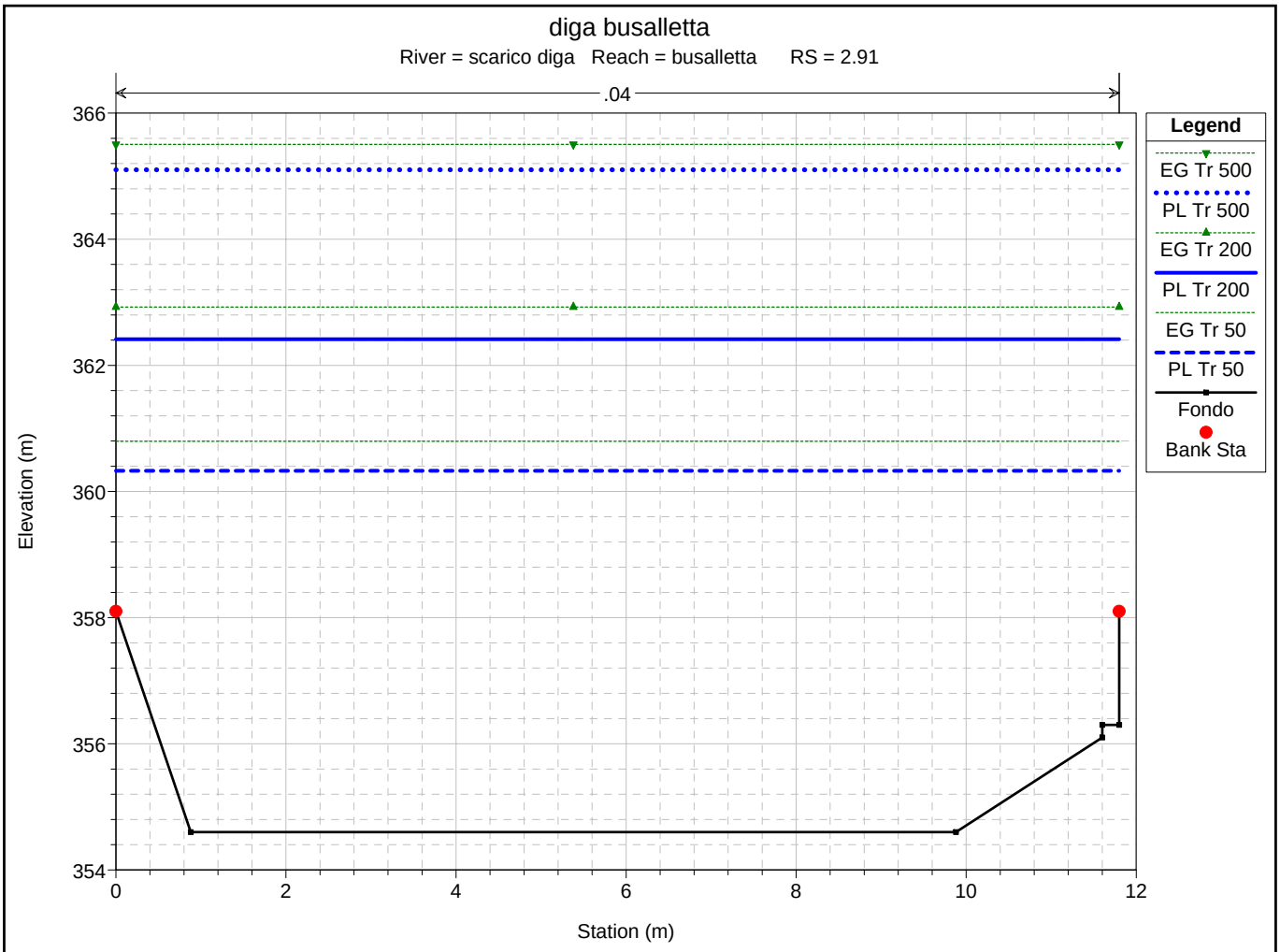
.04
Elevation (m)
366
364
362
360
358
356
354
0
2
4
6
8
10
12
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta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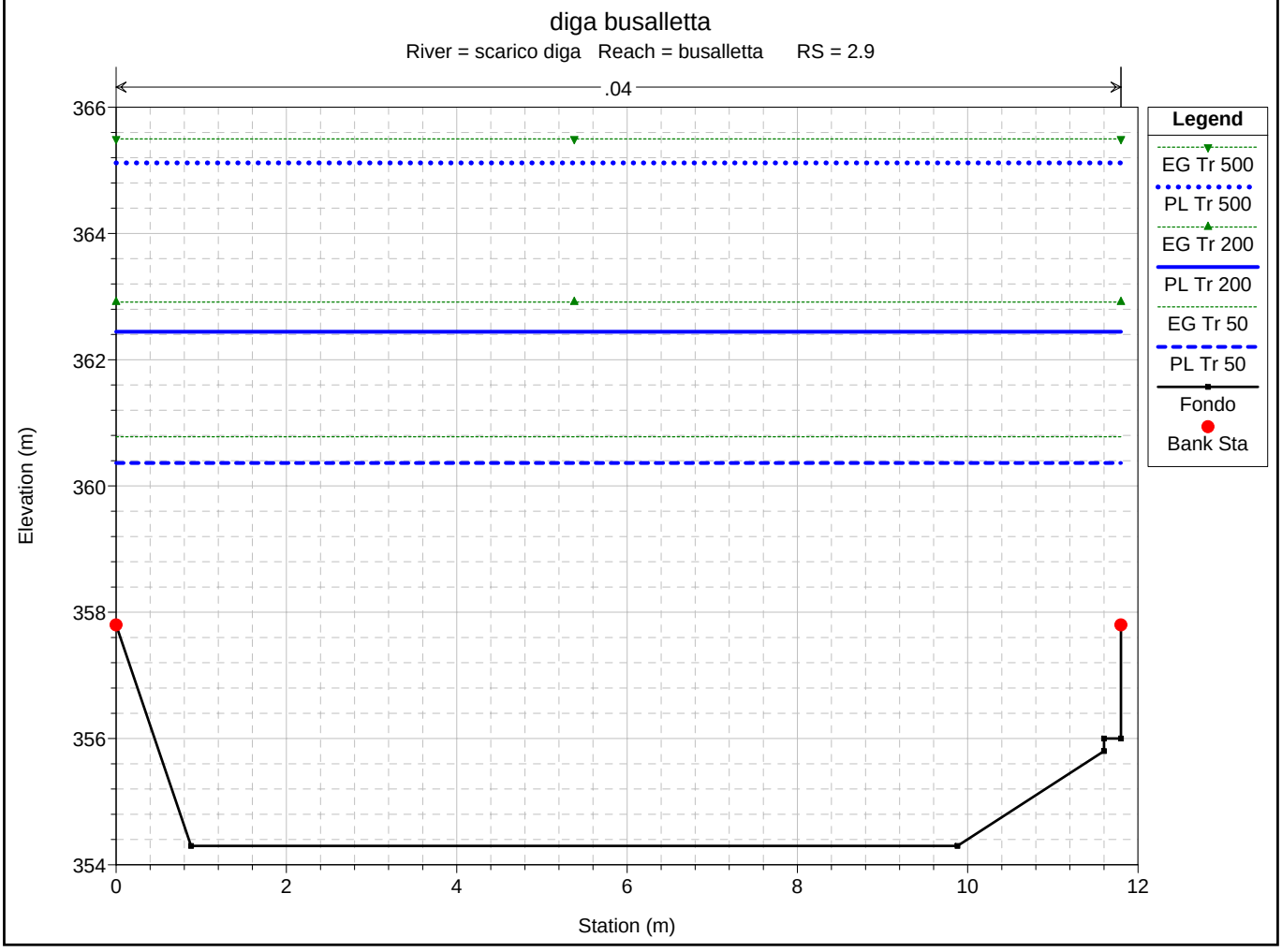
River = scarico diga Reach = busalletta RS = 2.91
.04
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta
Elevation (m)
366
364
362
360
358
356
354
0
2
4
6
8
10
12
Station (m)


diga busalletta
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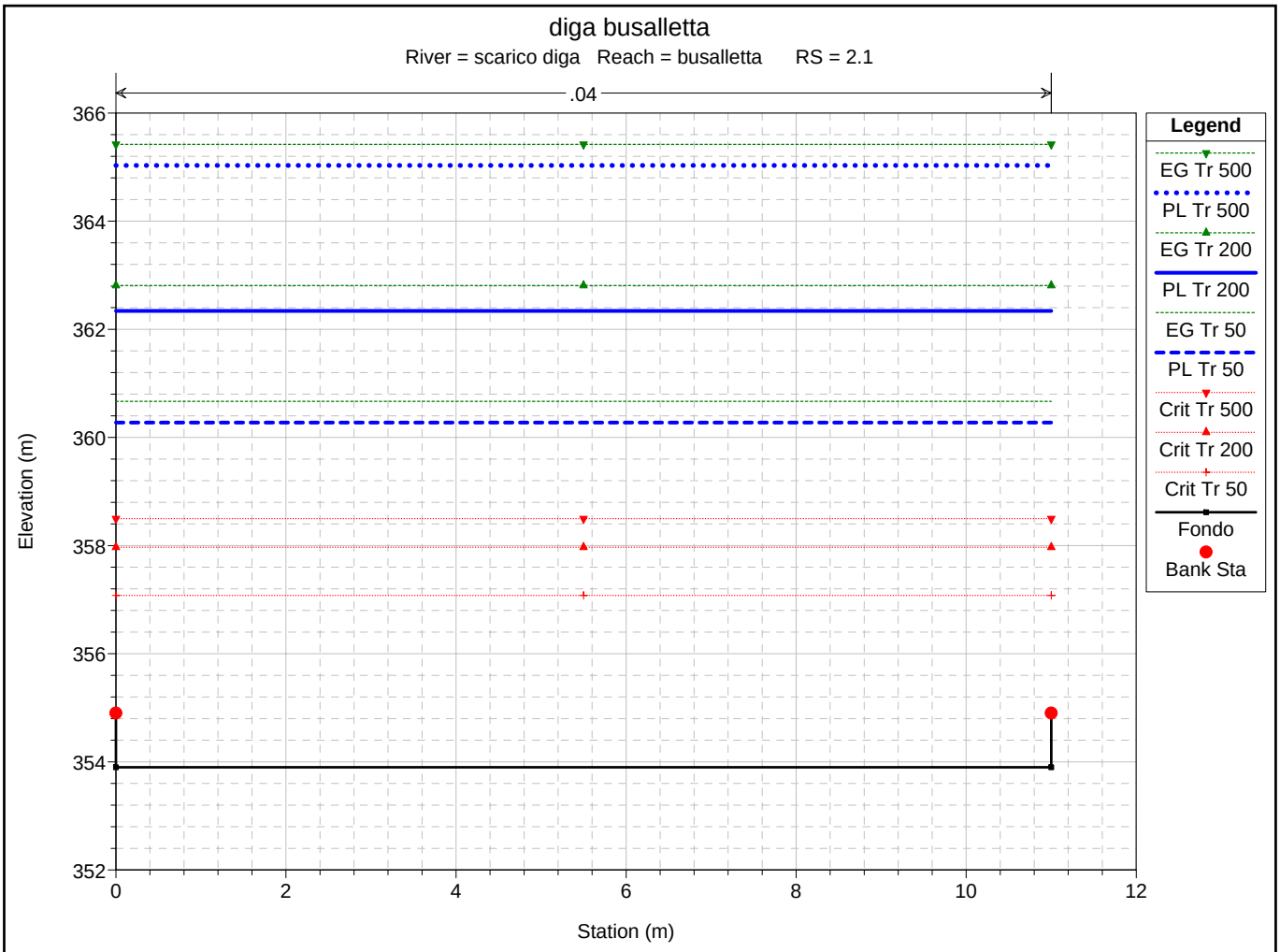
.04
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta
Elevation (m)
366
364
362
360
358
356
354
0
2
4
6
8
10
12
Station (m)


diga busalletta
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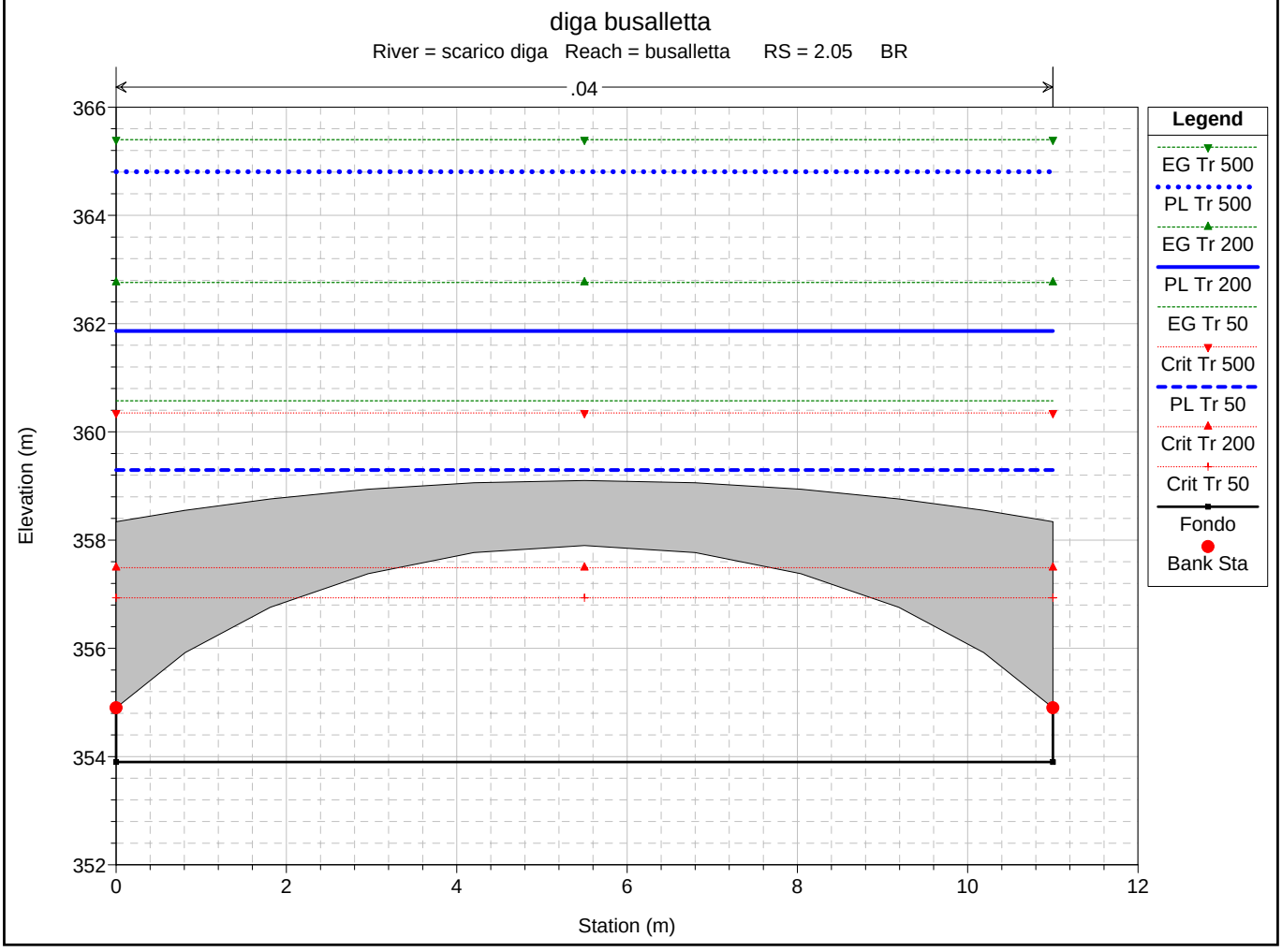
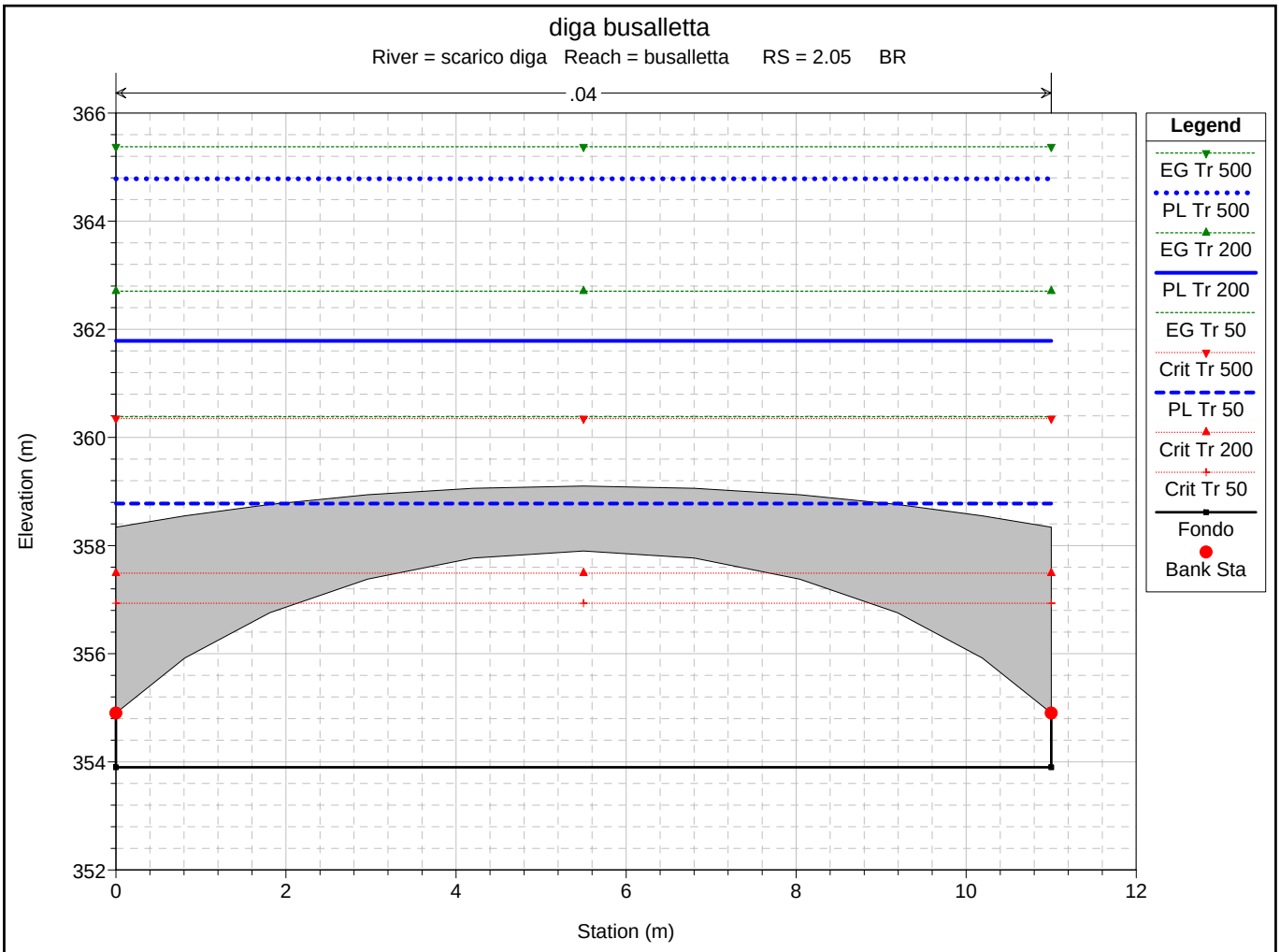
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 2.05 BR
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 2.05 BR
.04
Elevation (m)
Station (m)
Legend
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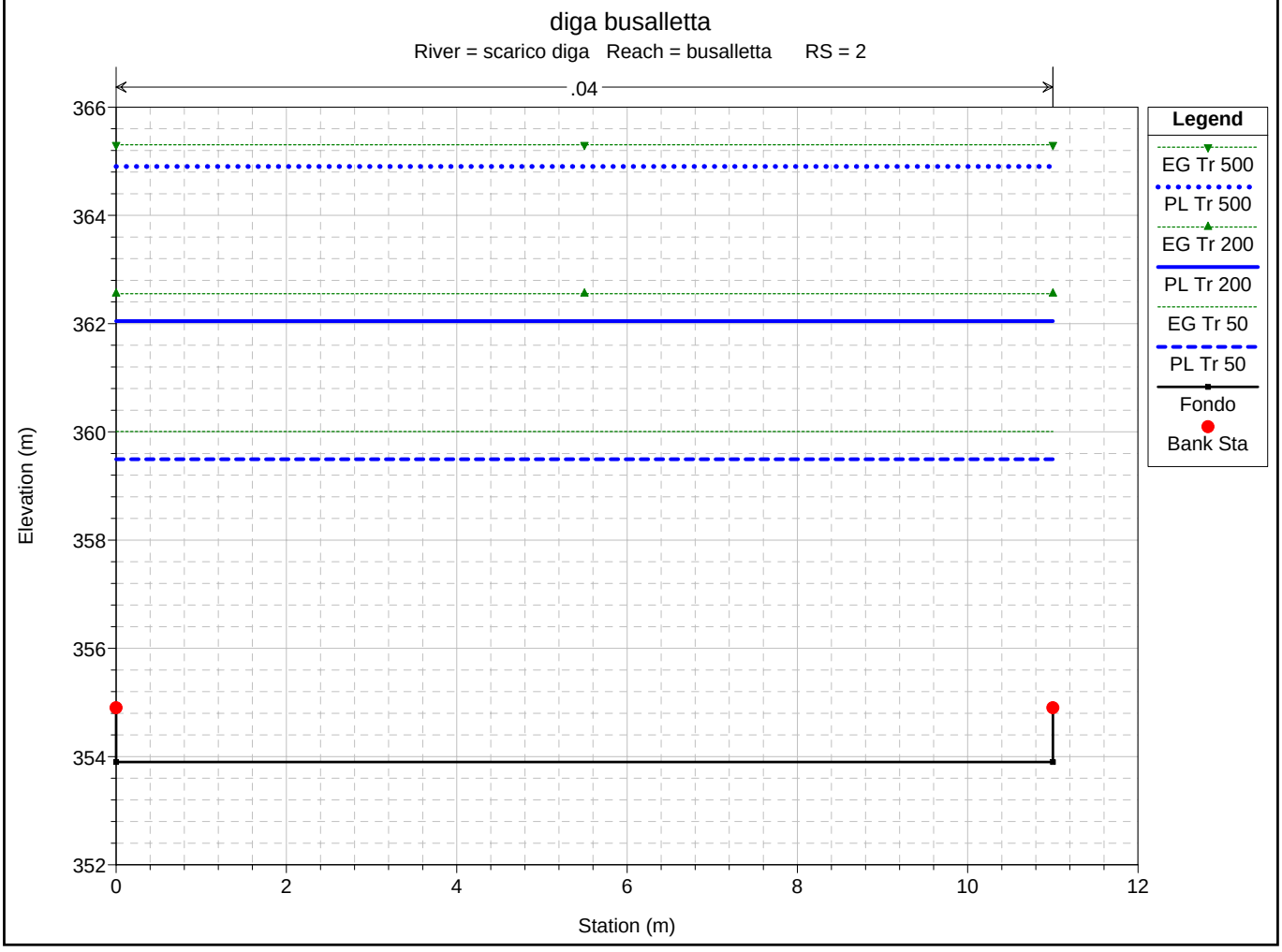
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
Crit Tr 500
PL Tr 50
Crit Tr 200
Crit Tr 50
Fondo
Bank Sta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River = scarico diga Reach = busalletta RS = 2
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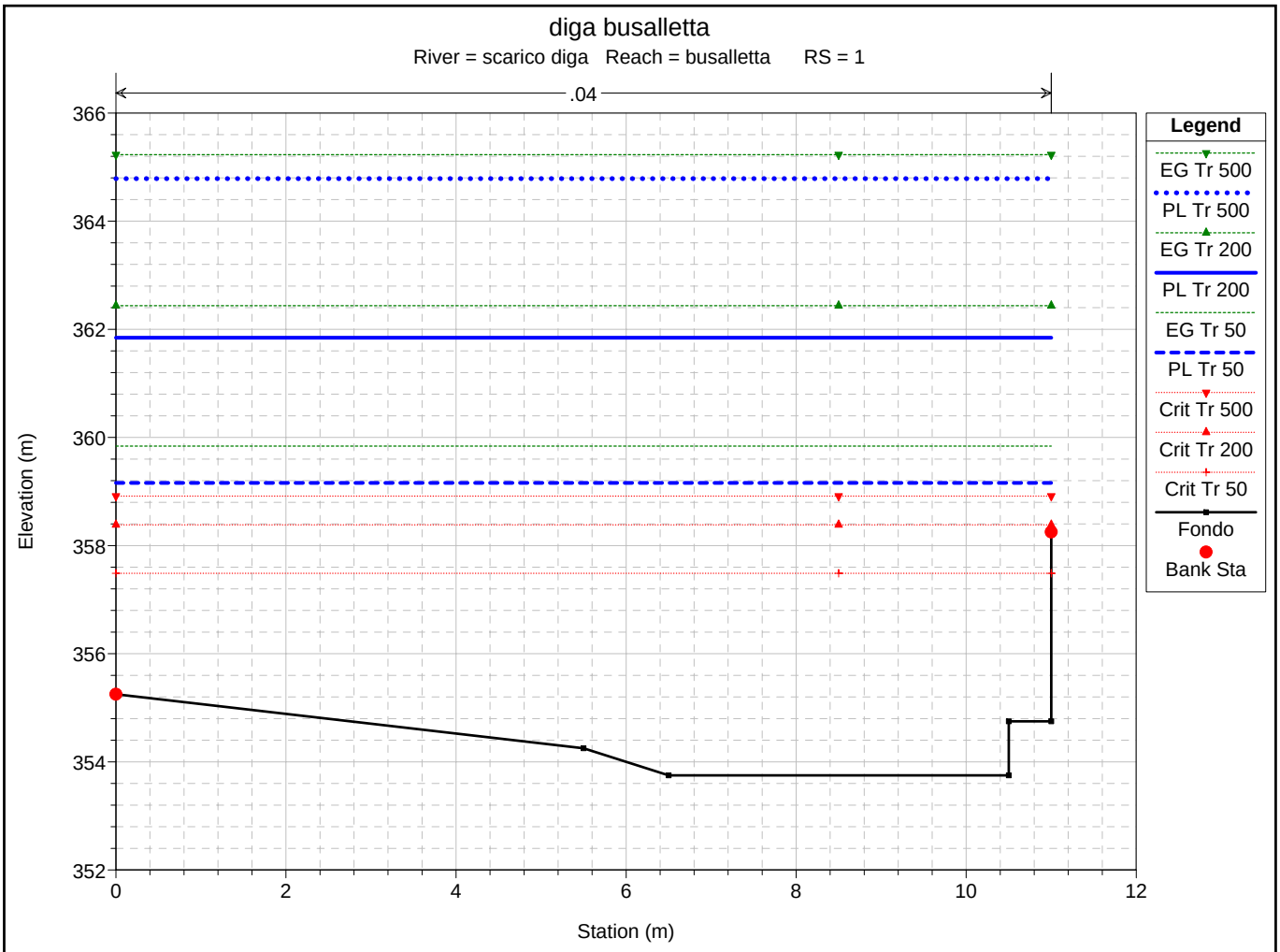
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Fondo
Bank Sta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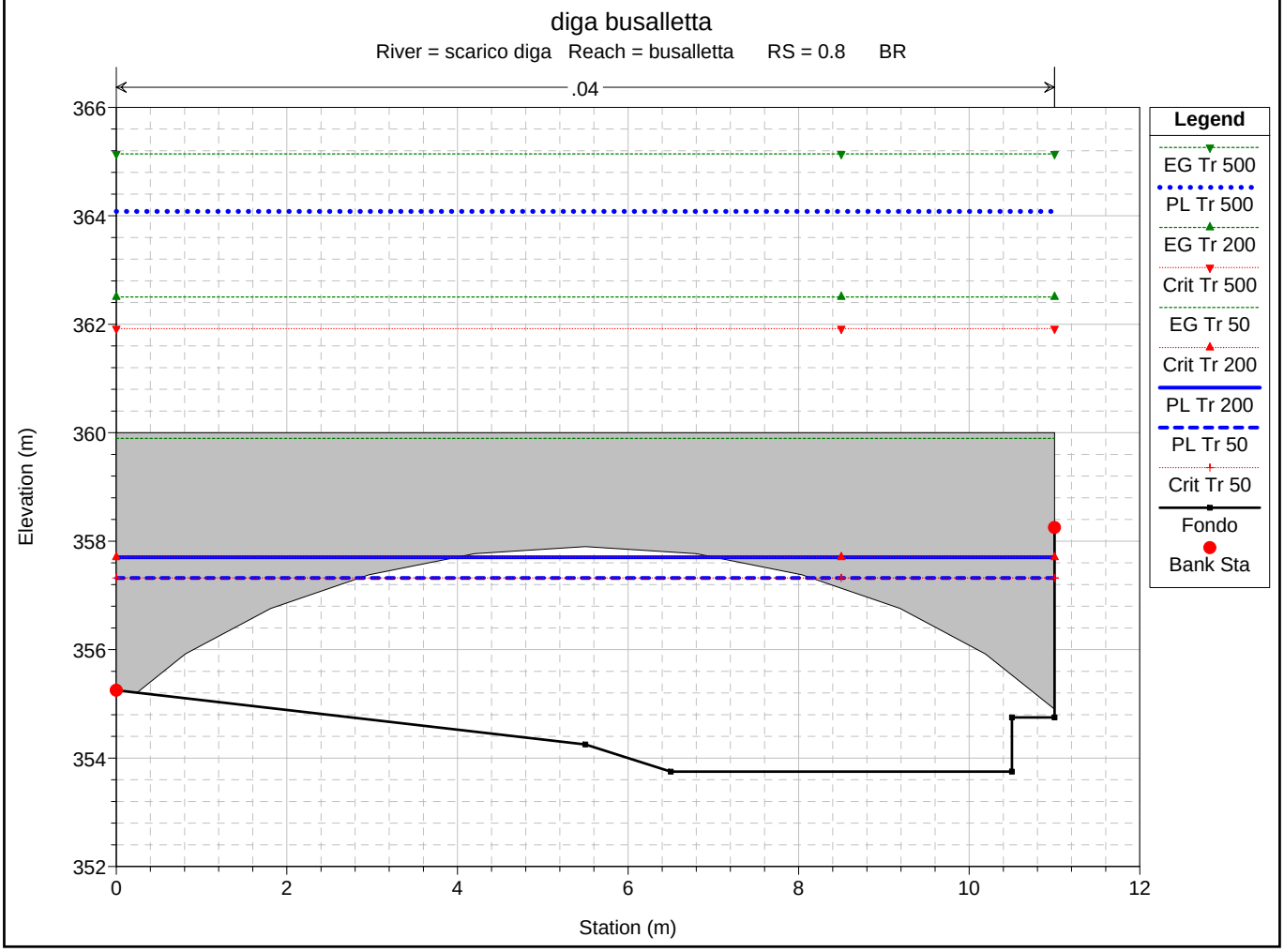
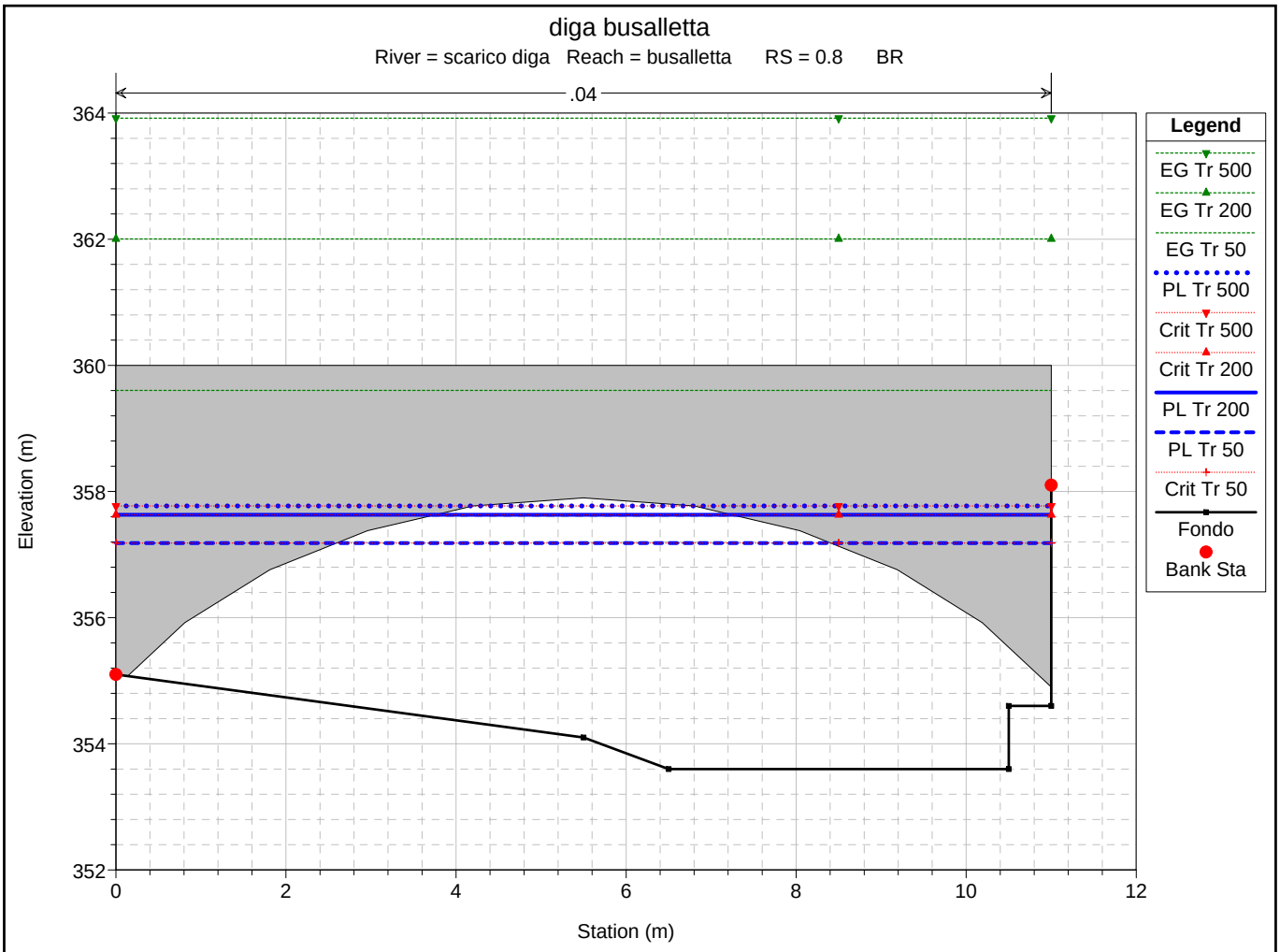
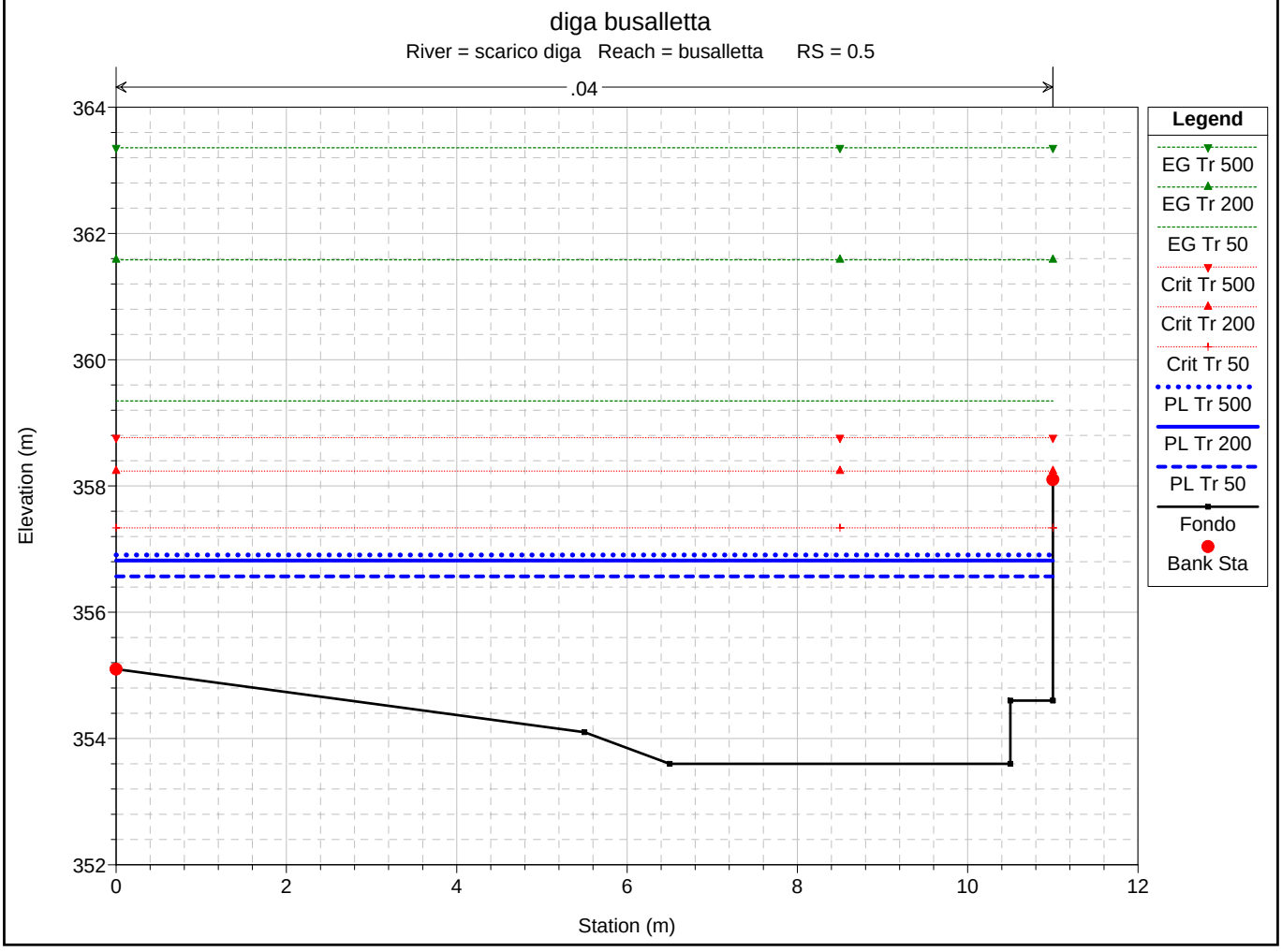
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
PL Tr 200
EG Tr 50
PL Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 0.8 BR
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
PL Tr 500
EG Tr 200
Crit Tr 500
EG Tr 50
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 0.8 BR
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
PL Tr 500
Crit Tr 500
Crit Tr 200
PL Tr 200
PL Tr 50
Crit Tr 50
Fondo
Bank Sta


diga busalletta
River = scarico diga Reach = busalletta RS = 0.5
.04
Elevation (m)
Station (m)
Legend
EG Tr 500
EG Tr 200
EG Tr 50
Crit Tr 500
Crit Tr 200
Crit Tr 50
PL Tr 500
PL Tr 200
PL Tr 50
Fondo
Bank Sta

HEC-RAS Plan: Busalletta River: scarico diga Reach: busalletta

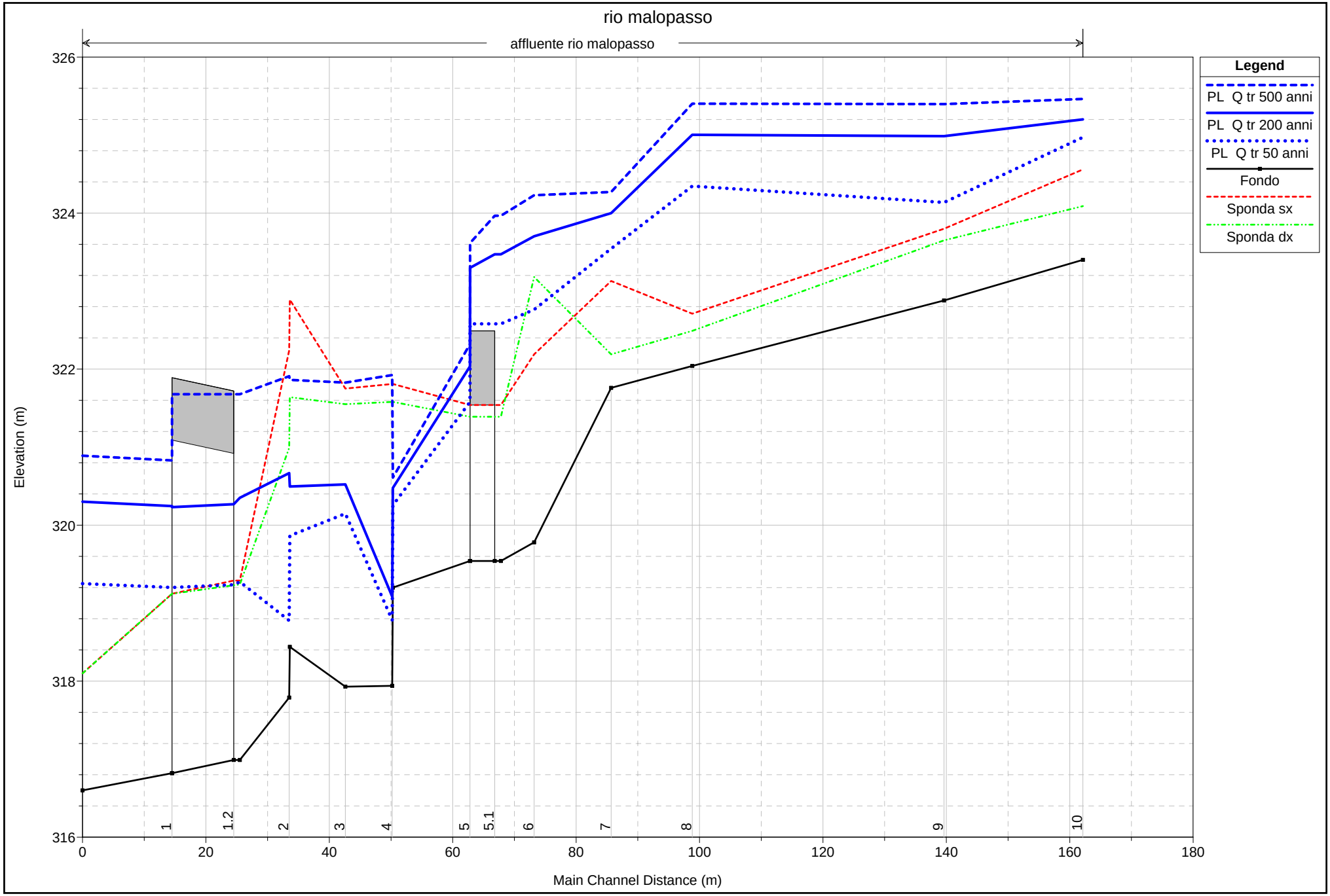
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
busalletta	8	Tr 50	195.00	362.00	366.46	363.50	-2.96	364.00	-2.46	366.46	368.42	0.023456	6.20	31.43	8.00	1.00
busalletta	8	Tr 200	282.00	362.00	367.55	363.50	-4.05	364.00	-3.55	367.55	370.06	0.025870	7.02	40.18	8.00	1.00
busalletta	8	Tr 500	339.00	362.00	368.21	363.50	-4.71	364.00	-4.21	368.21	371.05	0.027338	7.46	45.44	8.00	1.00
busalletta	7	Tr 50	195.00	359.15	362.48	360.65	-1.83	361.15	-1.33	363.48	365.98	0.052264	8.29	23.51	8.50	1.59
busalletta	7	Tr 200	282.00	359.15	363.39	360.65	-2.74	361.15	-2.24	364.54	367.52	0.049862	9.00	31.32	8.50	1.50
busalletta	7	Tr 500	339.00	359.15	363.96	360.65	-3.31	361.15	-2.81	365.17	368.44	0.049197	9.38	36.14	8.50	1.45
busalletta	6	Tr 50	195.00	357.61	359.40	362.02	2.62	362.13	2.73	360.50	363.42	0.103734	8.89	21.93	17.19	2.51
busalletta	6	Tr 200	282.00	357.61	363.99	362.02	-1.97	362.13	-1.86	361.14	364.31	0.001686	2.49	113.39	20.98	0.34
busalletta	6	Tr 500	339.00	357.61	366.10	362.02	-4.08	362.13	-3.97	361.52	366.34	0.000969	2.15	157.59	20.98	0.25
busalletta	5.5	Tr 50	195.00	356.30	361.68	359.84	-1.84	361.00	-0.68	359.61	362.02	0.002352	2.60	74.87	17.15	0.40
busalletta	5.5	Tr 200	282.00	356.30	363.96	359.84	-4.12	361.00	-2.96		364.27	0.001530	2.47	114.02	17.15	0.31
busalletta	5.5	Tr 500	339.00	356.30	366.05	359.84	-6.21	361.00	-5.05		366.31	0.001068	2.26	149.85	17.15	0.24
busalletta	5	Tr 50	195.00	356.30	361.44	360.21	-1.23	361.00	-0.44		362.00	0.004338	3.32	58.69	12.65	0.49
busalletta	5	Tr 200	282.00	356.30	363.72	360.21	-3.51	361.00	-2.72		364.25	0.003125	3.22	87.57	12.65	0.39
busalletta	5	Tr 500	339.00	356.30	365.85	360.21	-5.64	361.00	-4.85		366.29	0.002282	2.96	114.42	12.65	0.31
busalletta	4.5	Tr 50	195.00	356.00	361.04	360.12	-0.92	361.00	-0.04		361.86	0.007705	4.01	48.60	10.01	0.58
busalletta	4.5	Tr 200	282.00	356.00	363.36	360.12	-3.24	361.00	-2.36		364.14	0.005830	3.93	71.74	10.01	0.47
busalletta	4.5	Tr 500	339.00	356.00	365.54	360.12	-5.42	361.00	-4.54		366.21	0.004325	3.62	93.63	10.01	0.38
busalletta	4	Tr 50	195.00	355.82	361.09	361.00	-0.09	361.00	-0.09	359.37	361.77	0.005861	3.66	53.33	10.82	0.53
busalletta	4	Tr 200	282.00	355.82	363.40	361.00	-2.40	361.00	-2.40	360.26	364.06	0.004468	3.60	78.41	10.82	0.43
busalletta	4	Tr 500	339.00	355.82	365.58	361.00	-4.58	361.00	-4.58	360.79	366.15	0.003333	3.32	102.01	10.82	0.35
busalletta	3.5		Bridge													
busalletta	3	Tr 50	195.00	354.70	360.37	358.80	-1.57	358.80	-1.57		360.88	0.003829	3.15	61.96	11.37	0.43
busalletta	3	Tr 200	282.00	354.70	362.45	358.80	-3.65	358.80	-3.65		363.00	0.003460	3.30	85.57	11.37	0.38
busalletta	3	Tr 500	339.00	354.70	365.12	358.80	-6.32	358.80	-6.32		365.56	0.002340	2.92	115.95	11.37	0.29
busalletta	2.91	Tr 50	195.00	354.60	360.33	358.10	-2.23	358.10	-2.23		360.80	0.003403	3.03	64.43	11.80	0.41
busalletta	2.91	Tr 200	282.00	354.60	362.41	358.10	-4.31	358.10	-4.31		362.93	0.003065	3.17	89.04	11.80	0.37
busalletta	2.91	Tr 500	339.00	354.60	365.10	358.10	-7.00	358.10	-7.00		365.50	0.002066	2.81	120.75	11.80	0.28
busalletta	2.9	Tr 50	195.00	354.30	360.37	357.80	-2.56	357.80	-2.56		360.78	0.002904	2.85	68.40	11.80	0.38
busalletta	2.9	Tr 200	282.00	354.30	362.44	357.80	-4.64	357.80	-4.64		362.91	0.002749	3.03	92.93	11.80	0.35
busalletta	2.9	Tr 500	339.00	354.30	365.12	357.80	-7.32	357.80	-7.32		365.50	0.001917	2.72	124.49	11.80	0.27
busalletta	2.1	Tr 50	195.00	353.90	360.27	354.90	-5.37	354.90	-5.37	357.08	360.67	0.002922	2.78	70.12	11.00	0.35
busalletta	2.1	Tr 200	282.00	353.90	362.34	354.90	-7.44	354.90	-7.44	357.97	362.81	0.002969	3.04	92.84	11.00	0.33
busalletta	2.1	Tr 500	339.00	353.90	365.03	354.90	-10.13	354.90	-10.13	358.50	365.42	0.002158	2.77	122.44	11.00	0.26
busalletta	2.05		Bridge													

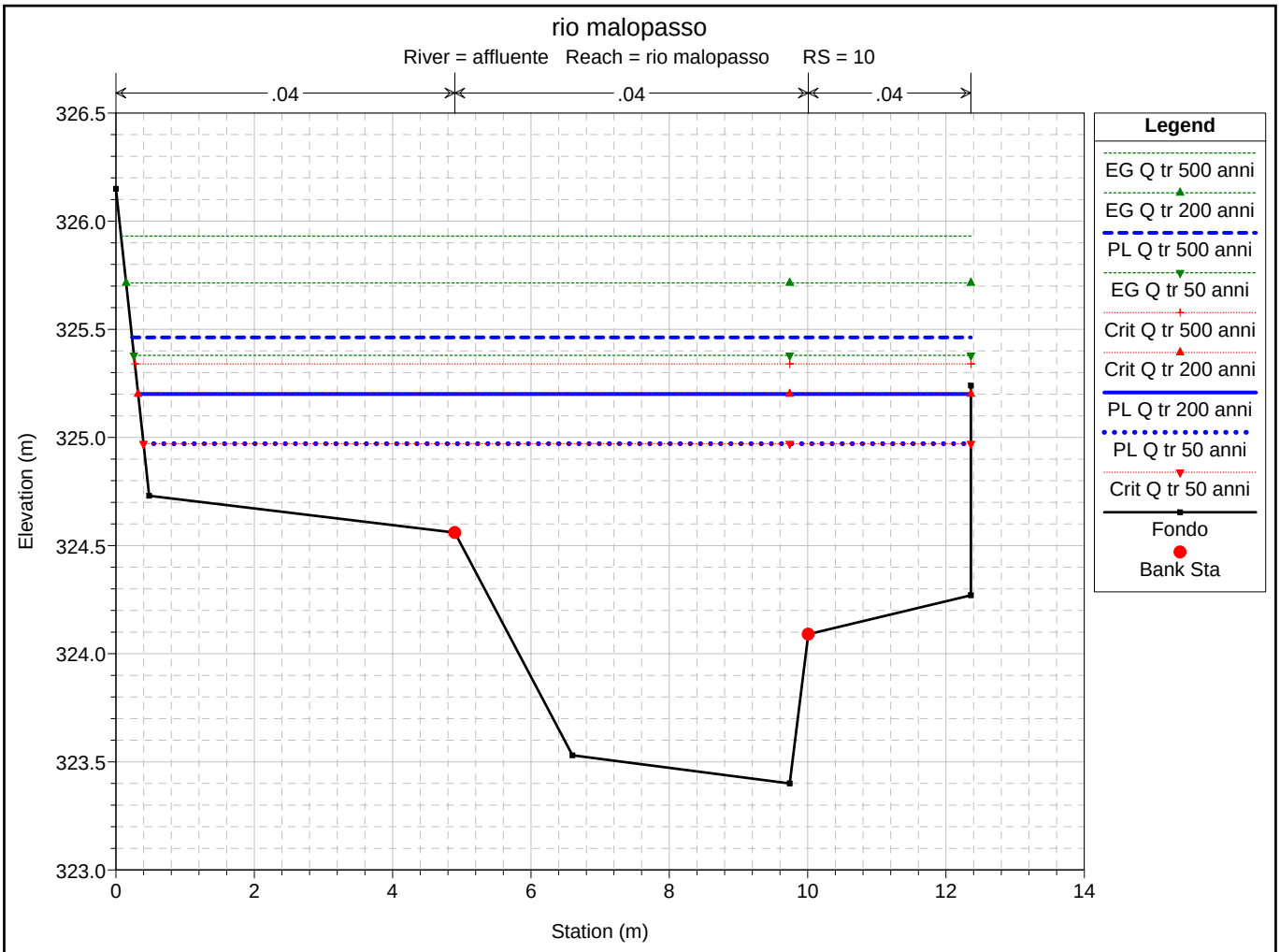
HEC-RAS Plan: Busalletta River: scarico diga Reach: busalletta (Continued)

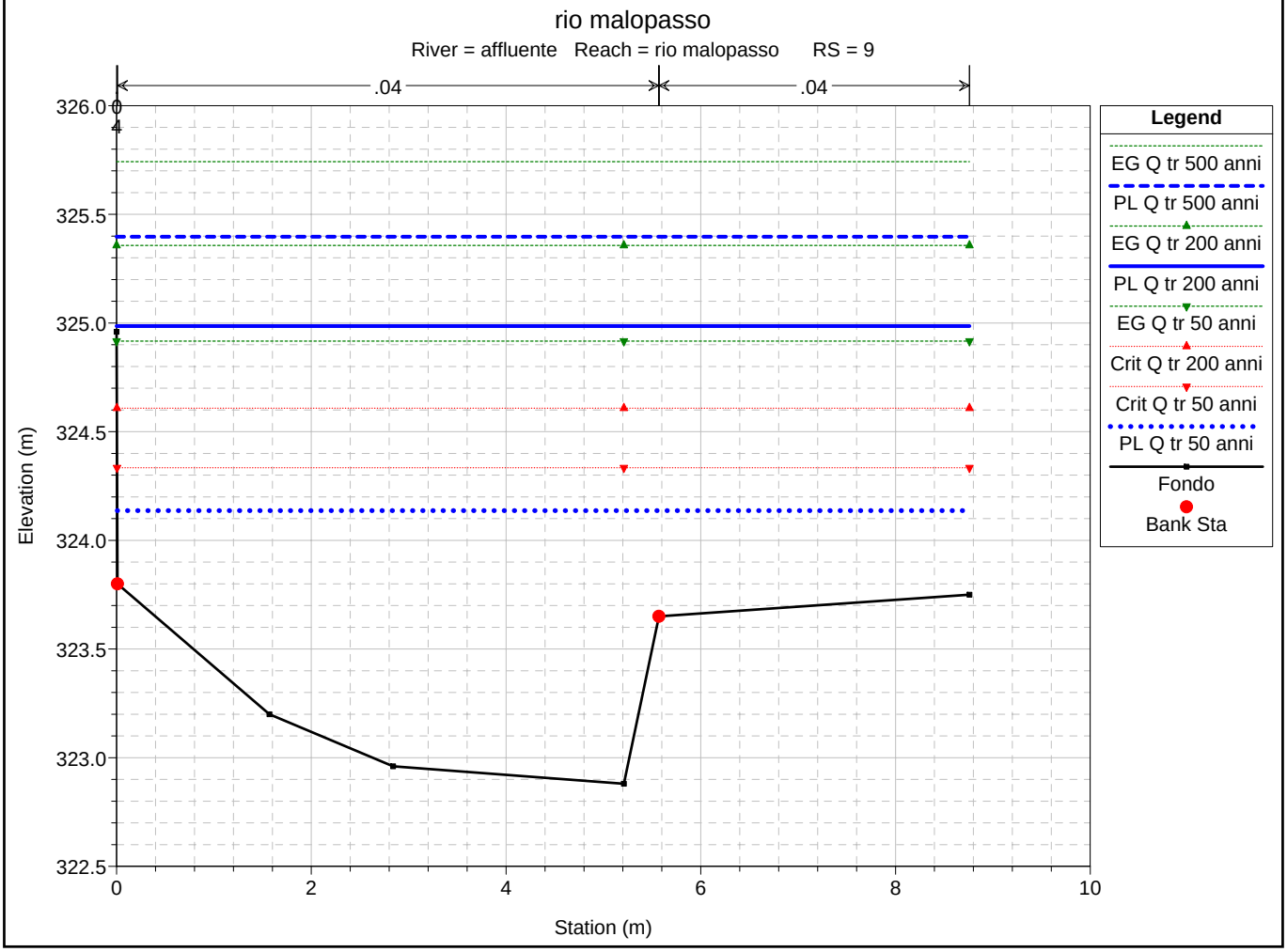
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
busalletta	2	Tr 50	195.00	353.90	359.50	354.90	-4.60	354.90	-4.60		360.01	0.004121	3.17	61.55	11.00	0.43
busalletta	2	Tr 200	282.00	353.90	362.05	354.90	-7.15	354.90	-7.15		362.55	0.003245	3.15	89.63	11.00	0.35
busalletta	2	Tr 500	339.00	353.90	364.90	354.90	-10.00	354.90	-10.00		365.30	0.002219	2.80	121.05	11.00	0.27
busalletta	1	Tr 50	195.00	353.75	359.16	355.25	-3.91	358.25	-0.91	357.49	359.84	0.006023	3.66	53.24	11.00	0.53
busalletta	1	Tr 200	282.00	353.75	361.85	355.25	-6.60	358.25	-3.60	358.38	362.44	0.003941	3.41	82.80	11.00	0.40
busalletta	1	Tr 500	339.00	353.75	364.79	355.25	-9.54	358.25	-6.54	358.91	365.23	0.002491	2.94	115.17	11.00	0.29
busalletta	0.8		Bridge													
busalletta	0.5	Tr 50	195.00	353.60	356.57	355.10	-1.47	358.10	1.53	357.34	359.35	0.043424	7.38	26.41	11.00	1.52
busalletta	0.5	Tr 200	282.00	353.60	356.82	355.10	-1.72	358.10	1.28	358.24	361.58	0.068020	9.67	29.16	11.00	1.90
busalletta	0.5	Tr 500	339.00	353.60	356.91	355.10	-1.81	358.10	1.19	358.77	363.36	0.089436	11.25	30.13	11.00	2.17

Rio Malopasso

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


rio malopasso
affluente rio malopasso
Legend
PL Q tr 500 anni
PL Q tr 200 anni
PL Q tr 50 anni
Fondo
Sponda sx
Sponda dx
Elevation (m)
Main Channel Distance (m)
326
324
322
320
318
316
0
20
40
60
80
100
120
140
160
180
1
1.2
2
3
4
5
5.1
6
7
8
9
10


rio malopasso
River = affluente Reach = rio malopasso RS = 10
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
EG Q tr 200 anni
PL Q tr 500 anni
EG Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
PL Q tr 200 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta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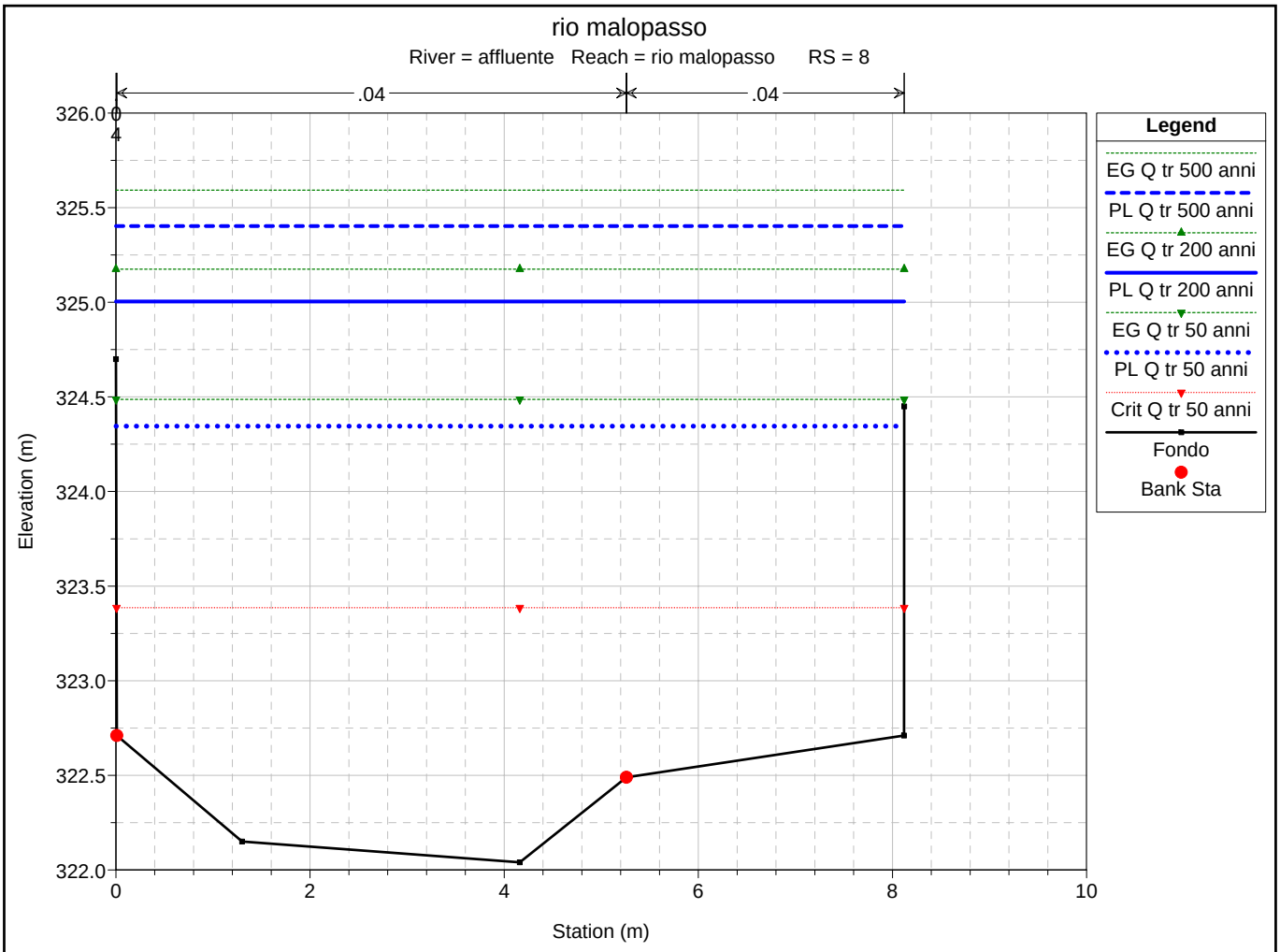
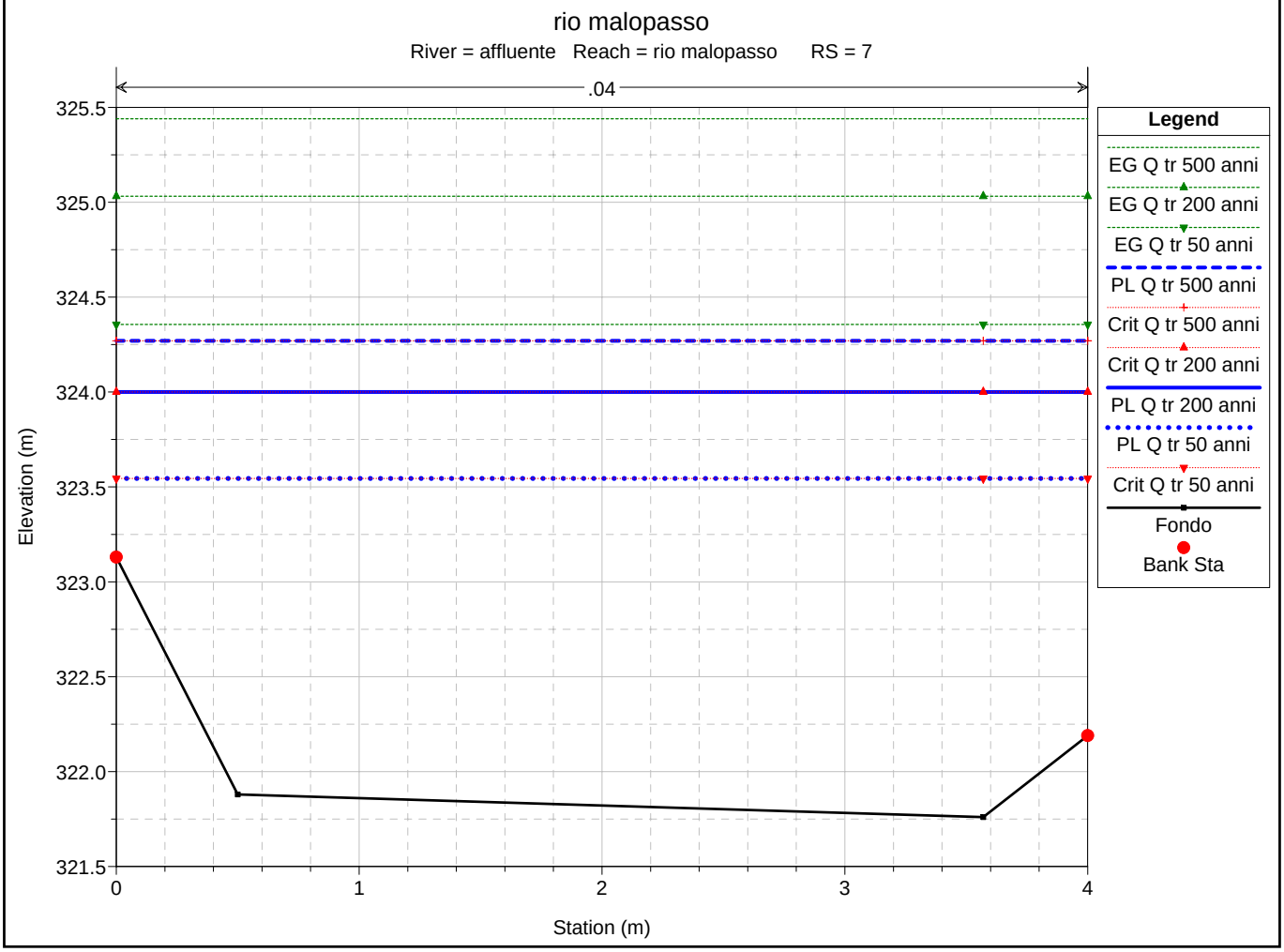
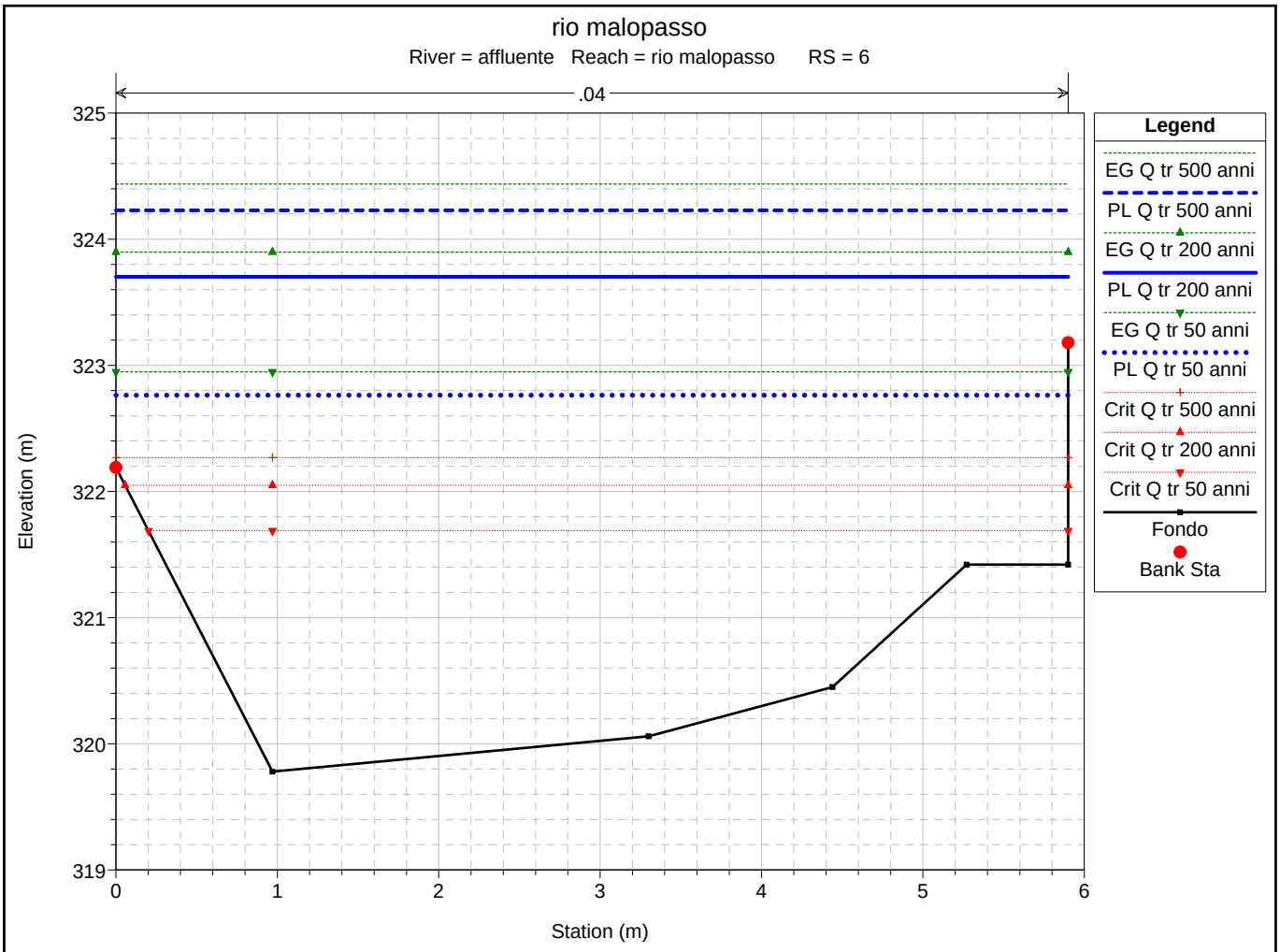
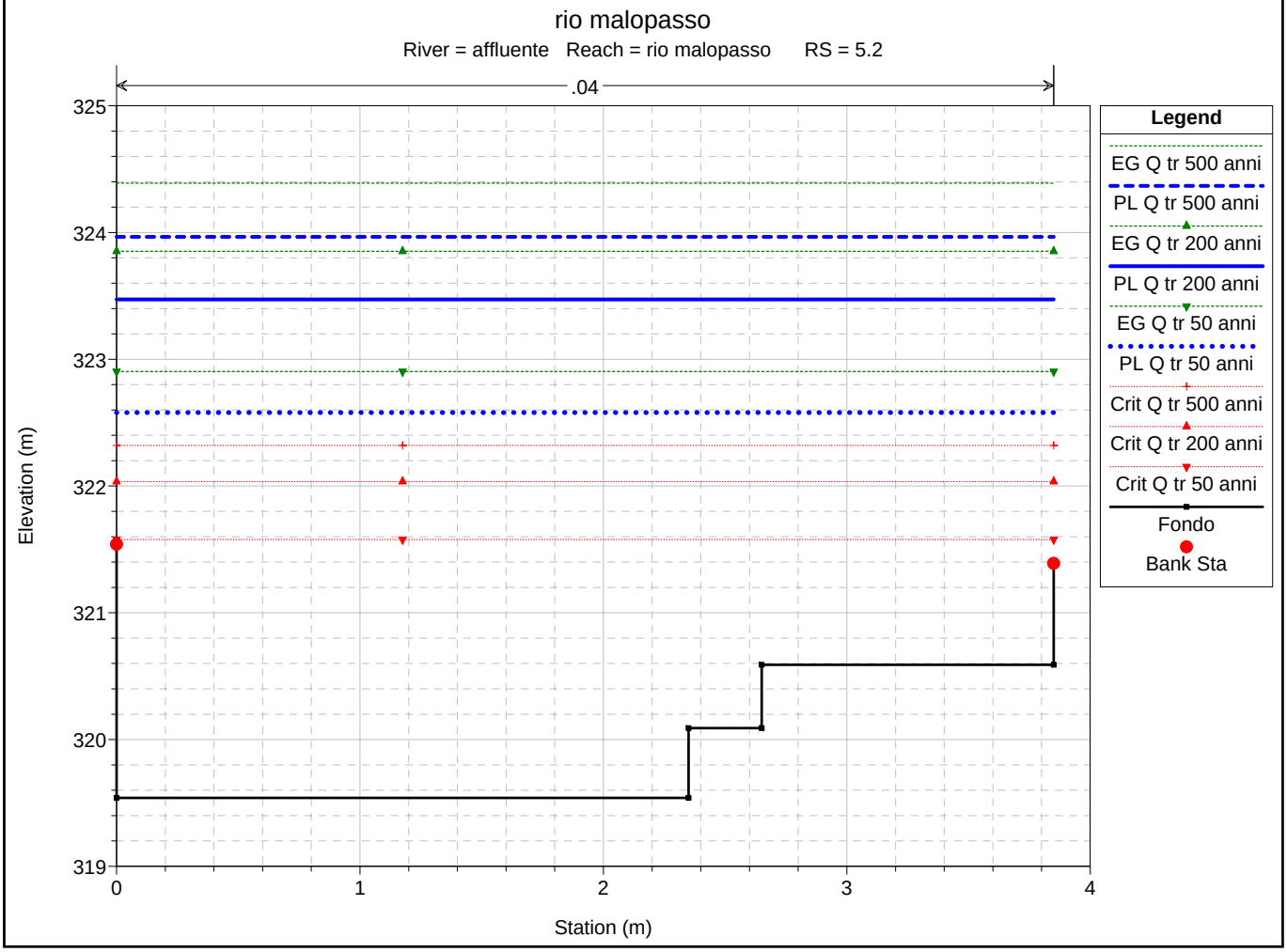
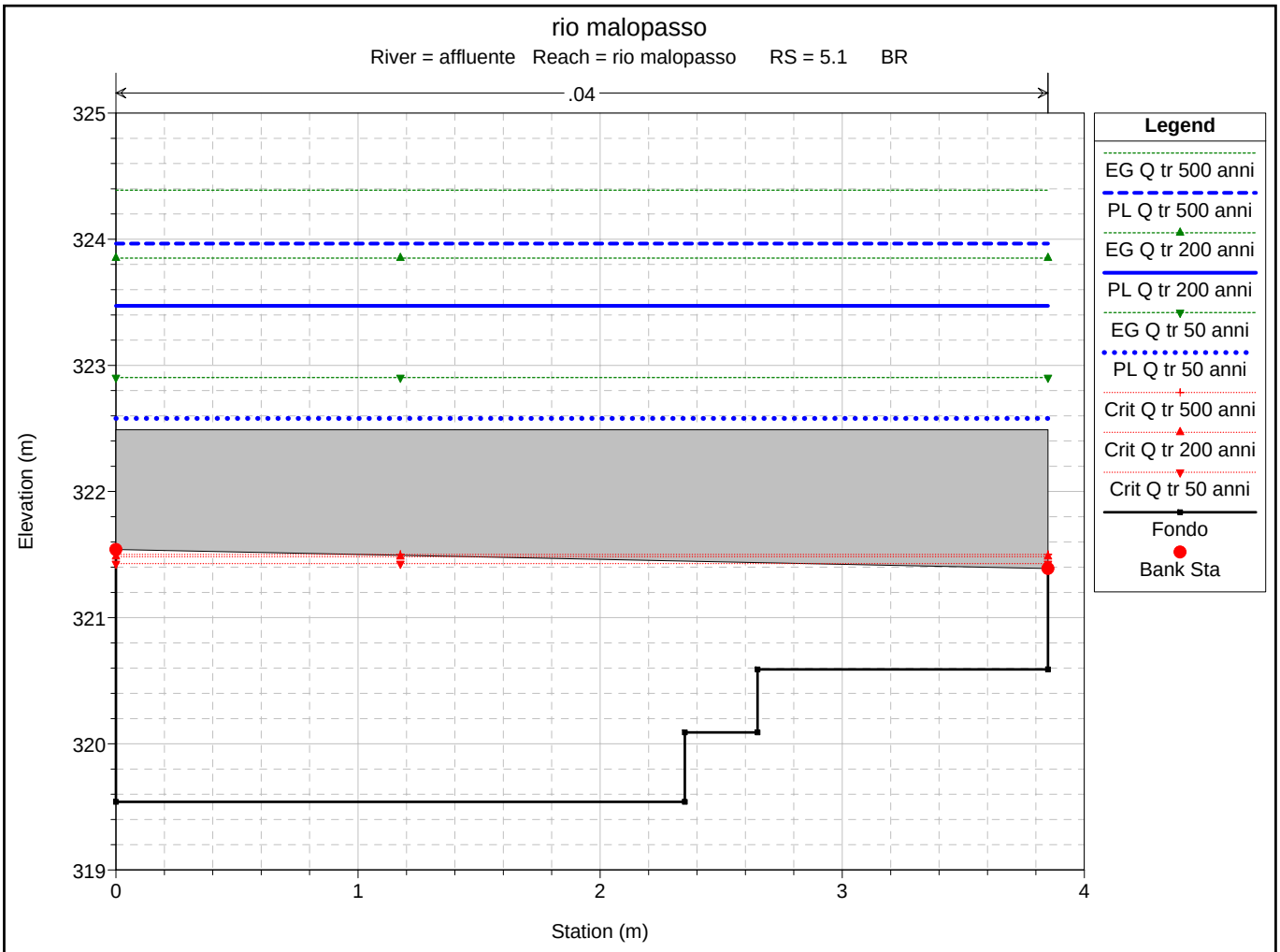
River = affluente Reach = rio malopasso RS = 9
.04
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
PL Q tr 50 anni
Fondo
Bank Sta

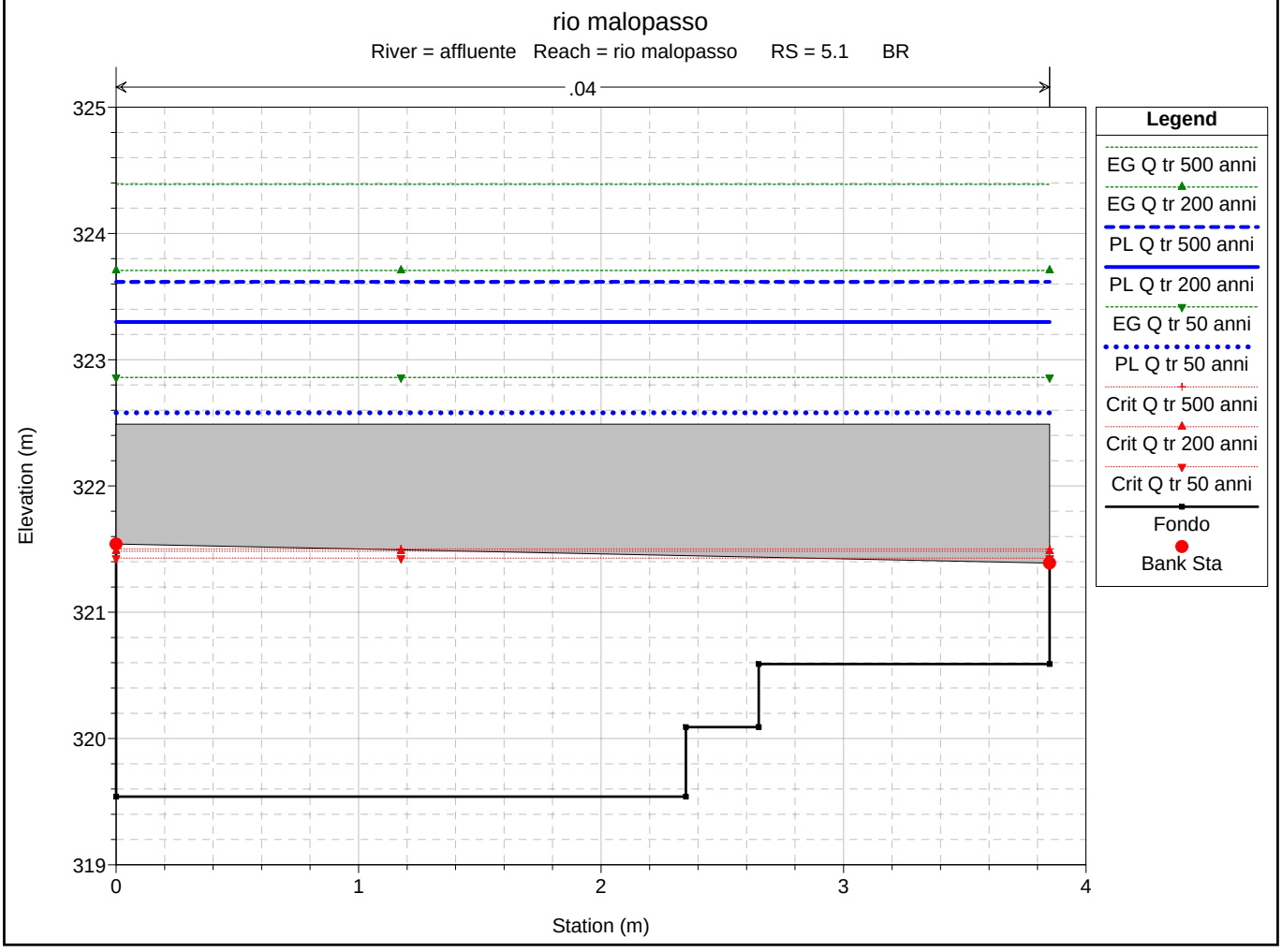

rio malopasso
River = affluente Reach = rio malopasso RS = 8
.04
.04
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta
Elevation (m)
Station (m)

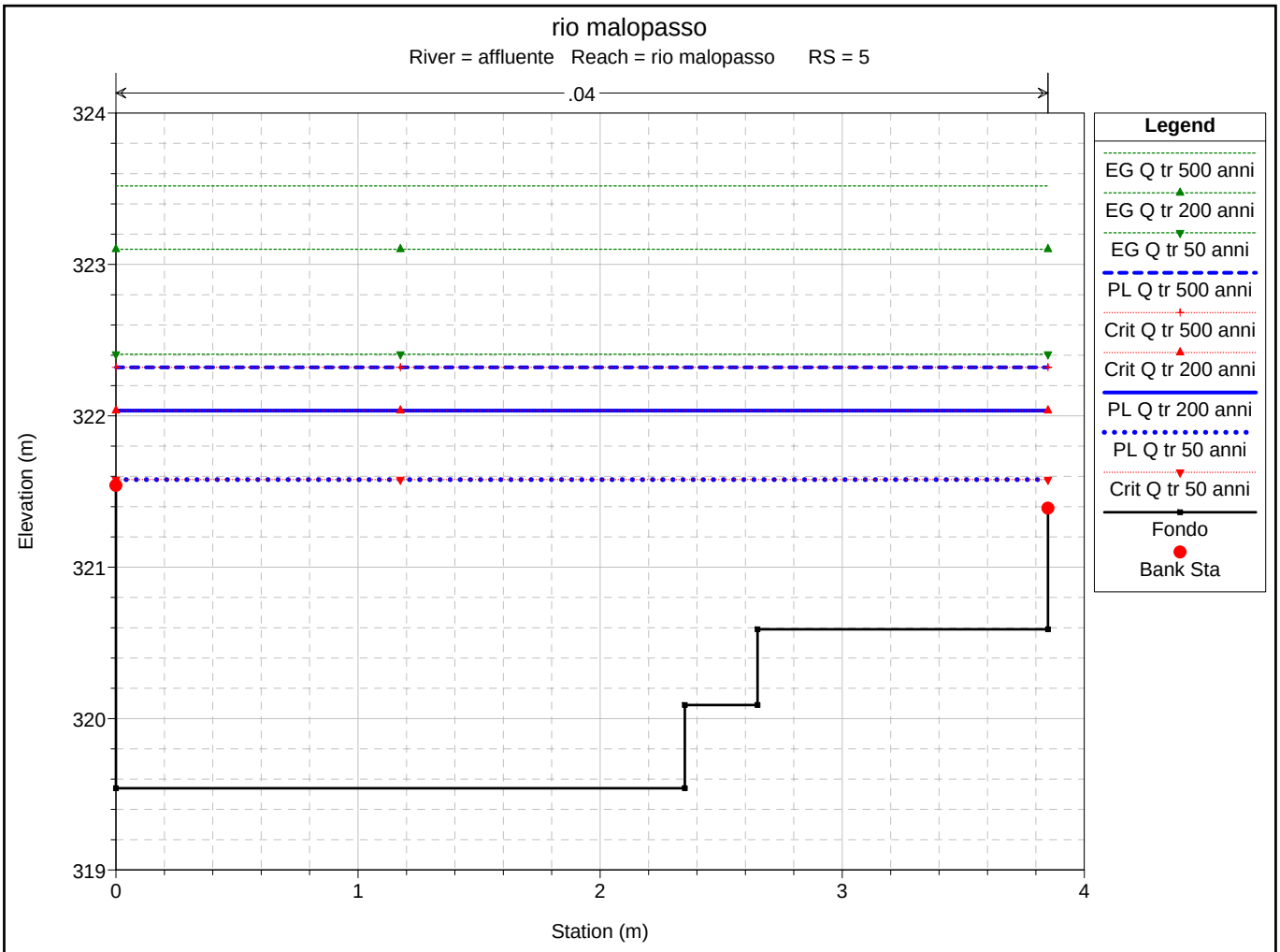

rio malopasso
River = affluente Reach = rio malopasso RS = 7
.04
Legend
EG Q tr 500 anni
EG Q tr 200 anni
EG Q tr 50 anni
PL Q tr 500 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
PL Q tr 200 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta
Elevation (m)
Station (m)

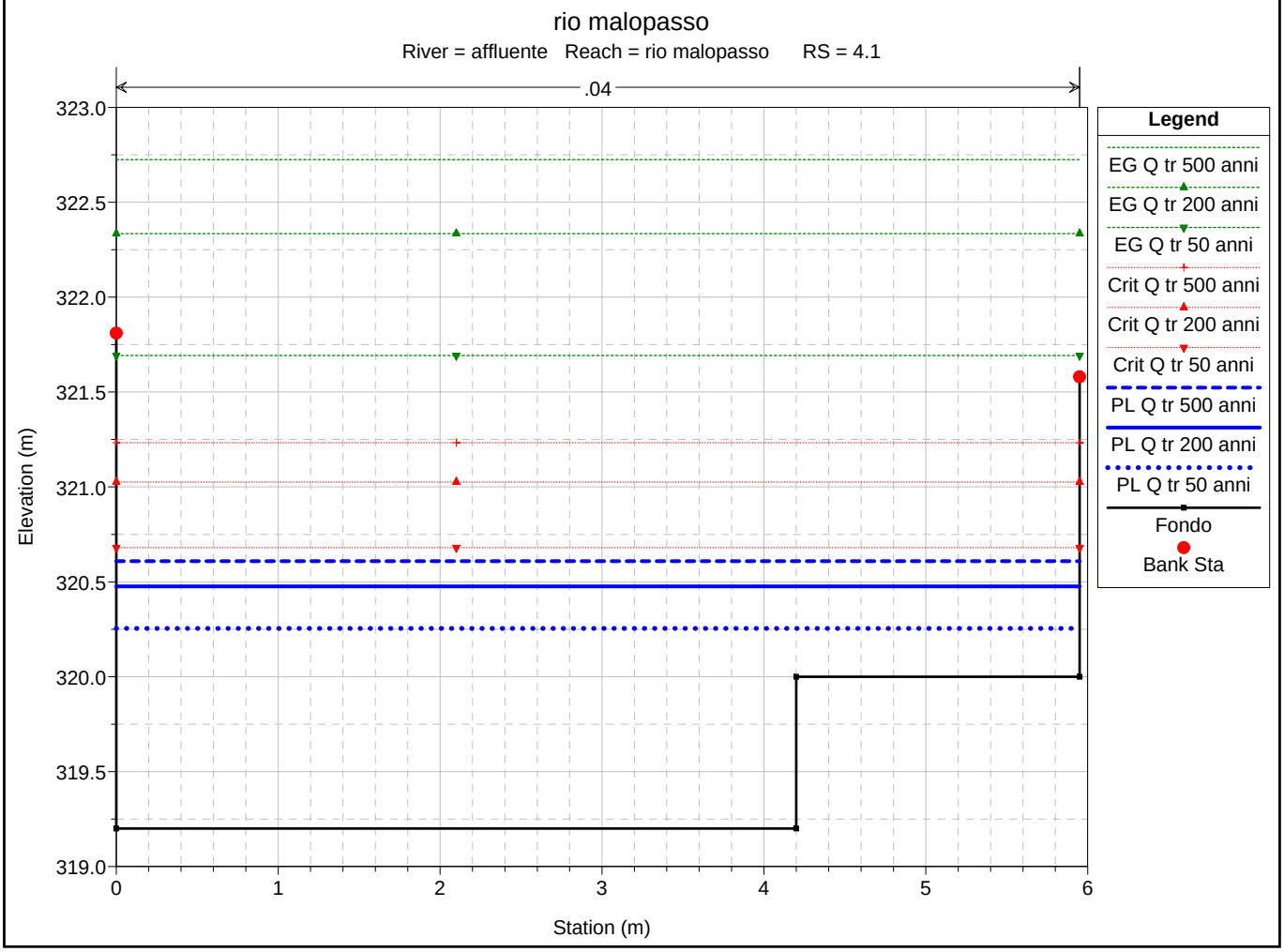

rio malopasso
River = affluente Reach = rio malopasso RS = 6
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
Fondo
Bank Sta

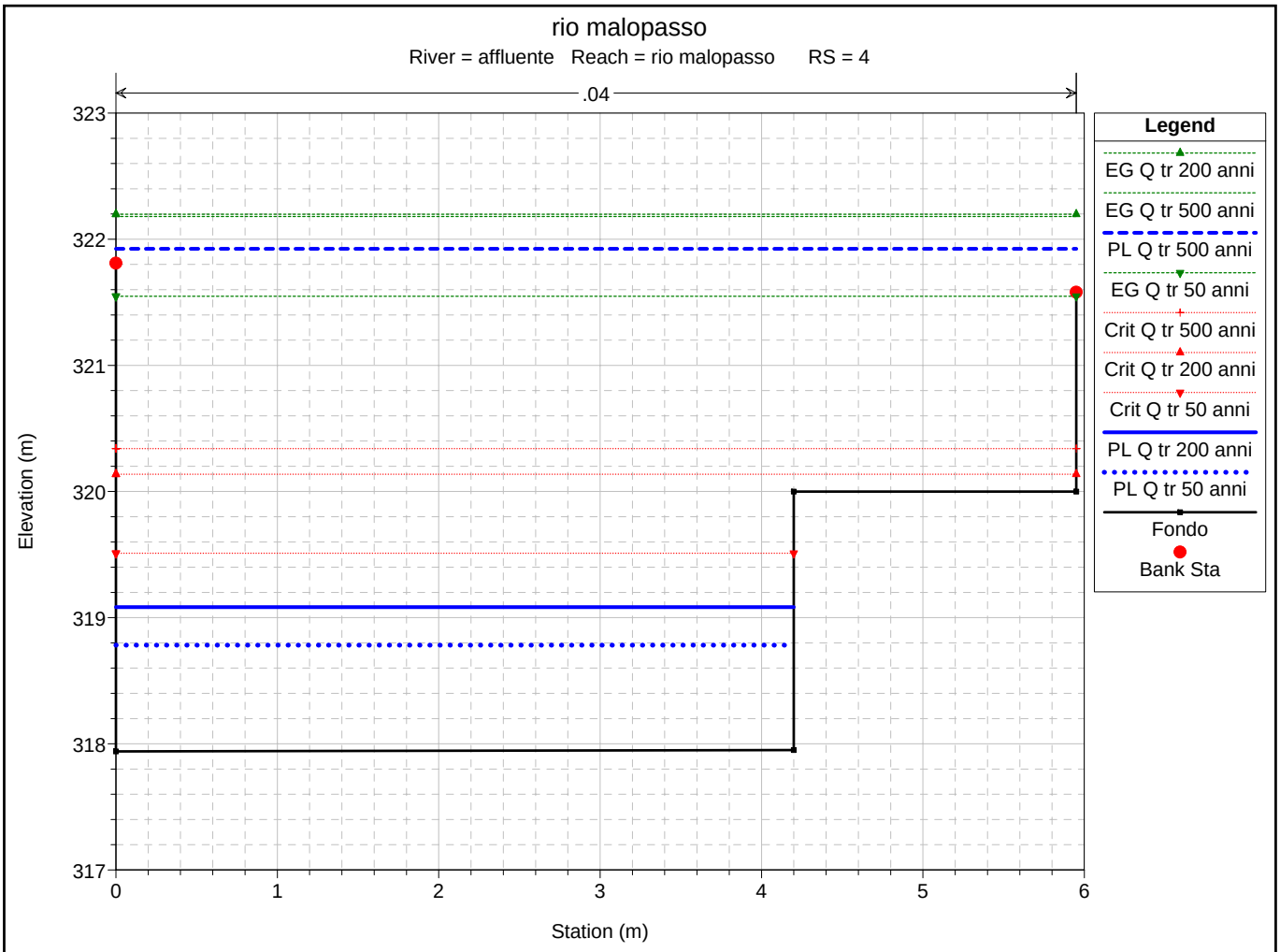

rio malopasso
River = affluente Reach = rio malopasso RS = 5.2
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
Fondo
Bank Sta

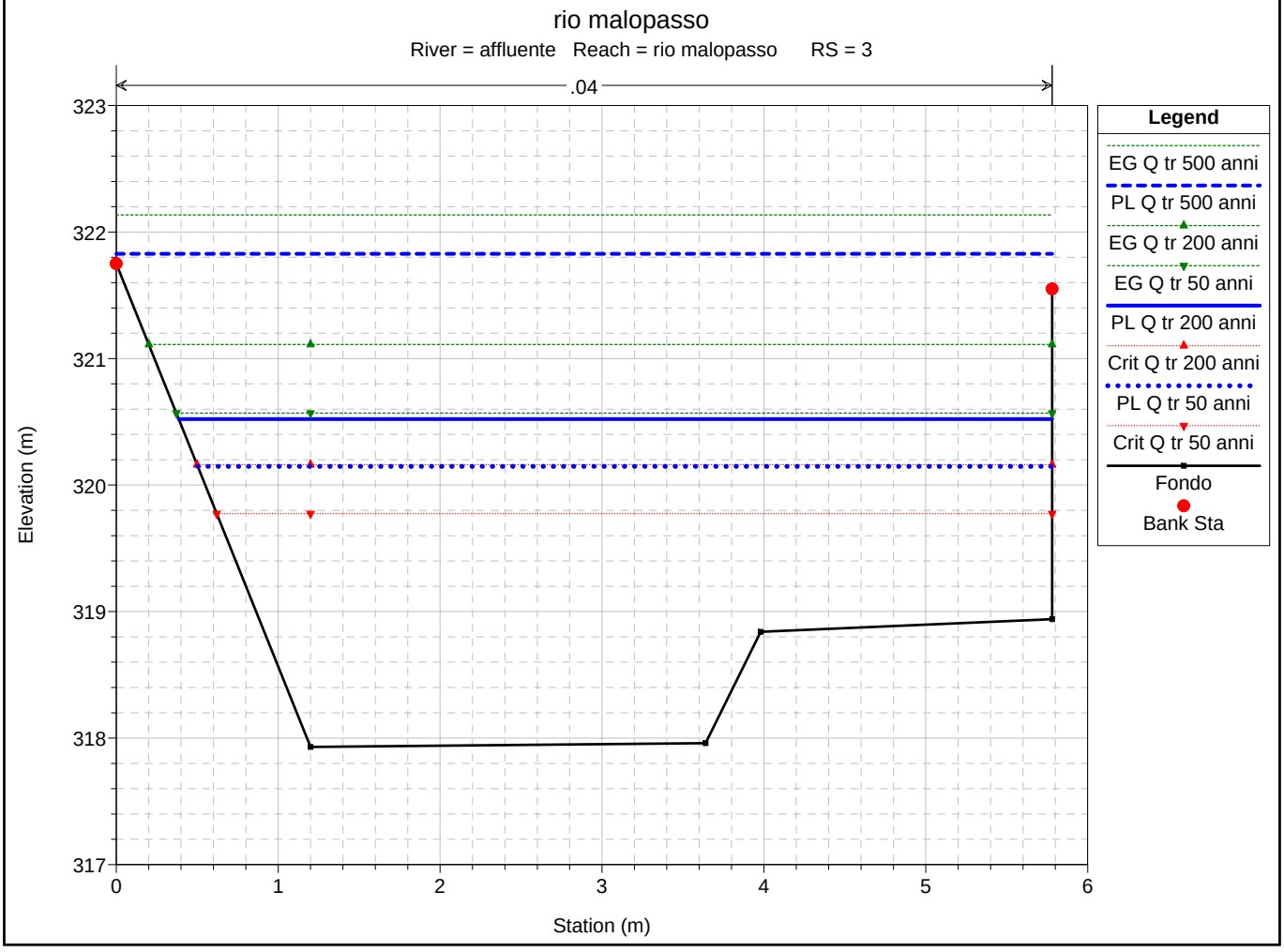

rio malopasso
River = affluente Reach = rio malopasso RS = 5.1 BR
.04
Elevation (m)
325
324
323
322
321
320
319
0
1
2
3
4
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
Fondo
Bank Sta


rio malopasso
River = affluente Reach = rio malopasso RS = 5.1 BR
.04
Elevation (m)
325
324
323
322
321
320
319
0
1
2
3
4
Station (m)
Legend
EG Q tr 500 anni
EG Q tr 200 anni
PL Q tr 500 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
Fondo
Bank Sta


rio malopasso
River = affluente Reach = rio malopasso RS = 5
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
EG Q tr 200 anni
EG Q tr 50 anni
PL Q tr 500 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
PL Q tr 200 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta


rio malopasso
River = affluente Reach = rio malopasso RS = 4.1
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
EG Q tr 200 anni
EG Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
PL Q tr 500 anni
PL Q tr 200 anni
PL Q tr 50 anni
Fondo
Bank Sta


rio malopasso
River = affluente Reach = rio malopasso RS = 4
.04
Elevation (m)
Station (m)
Legend
EG Q tr 200 anni
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
PL Q tr 200 anni
PL Q tr 50 anni
Fondo
Bank Sta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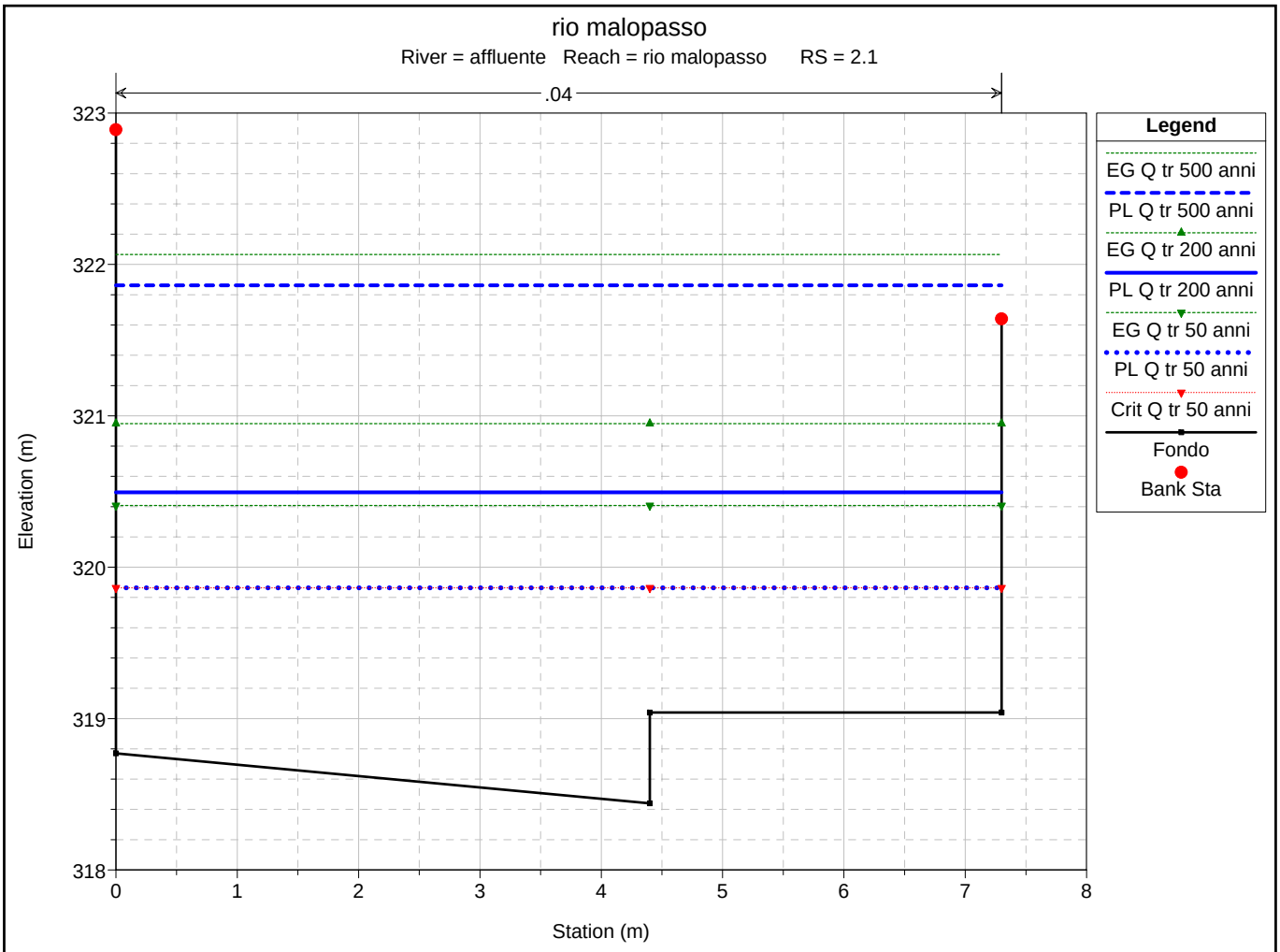
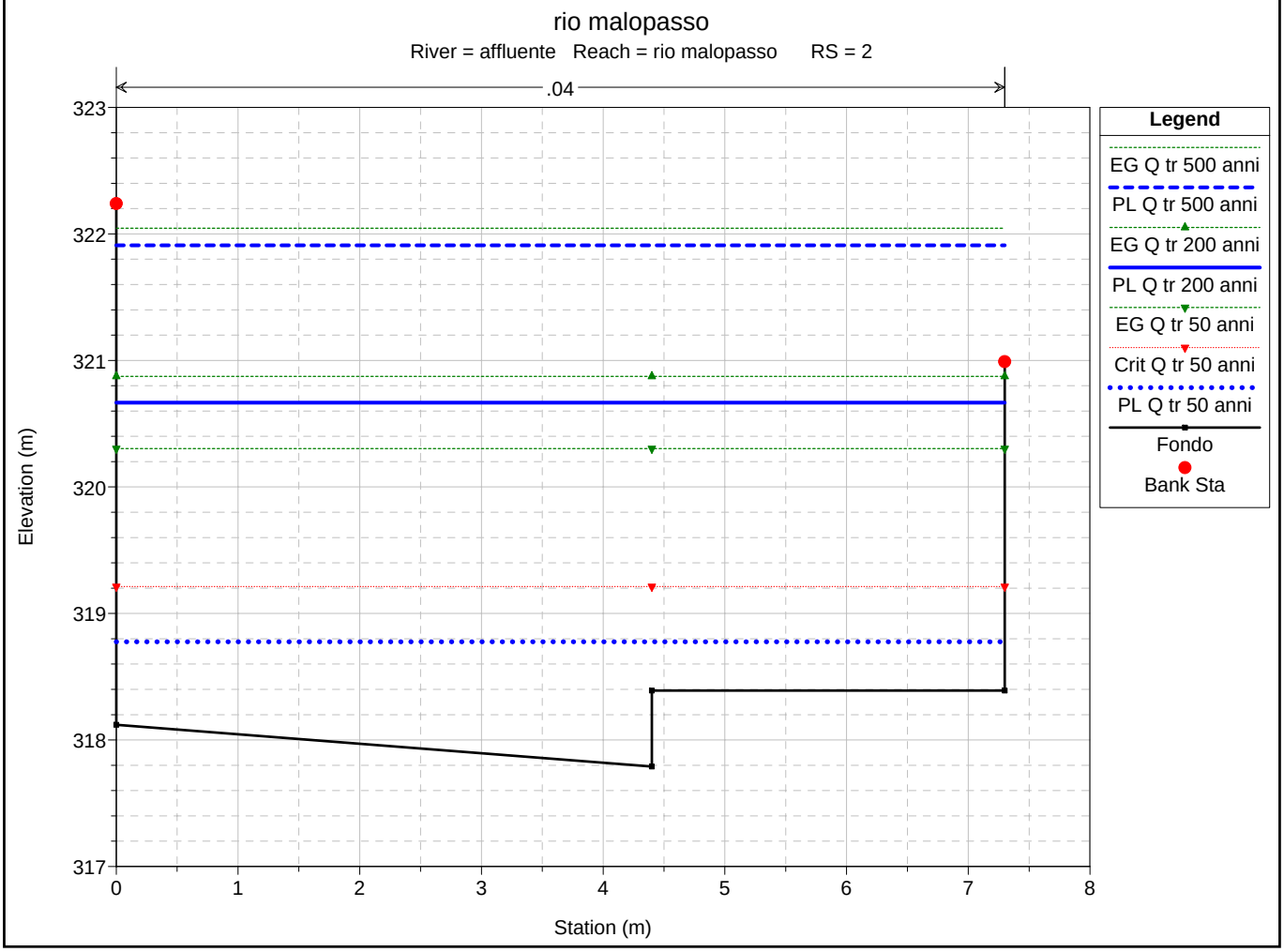
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
EG Q tr 50 anni
PL Q tr 200 anni
Crit Q tr 200 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta


rio malopasso
River = affluente Reach = rio malopasso RS = 2.1
.04
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta
Elevation (m)
Station (m)
323
322
321
320
319
318
0
1
2
3
4
5
6
7
8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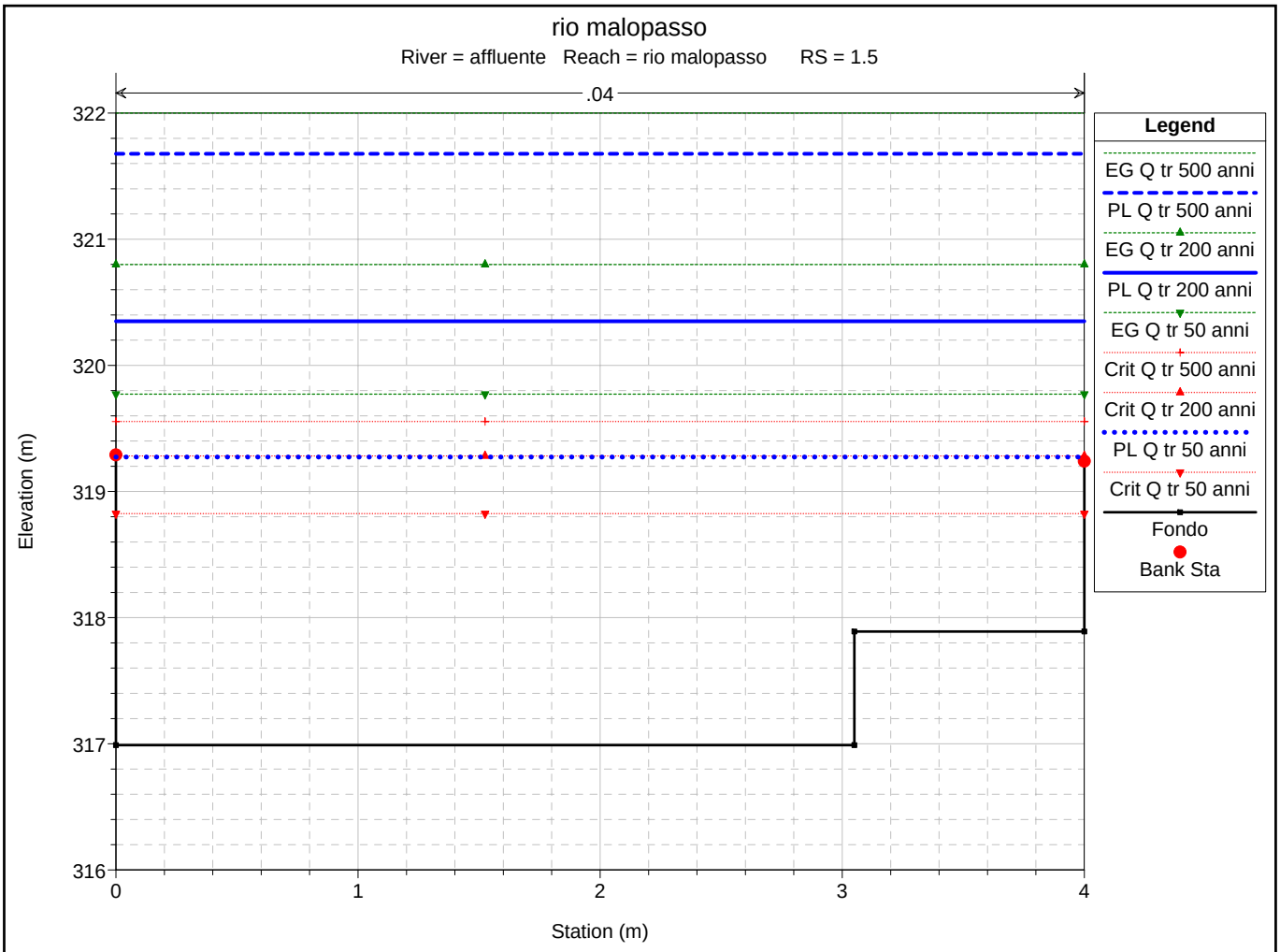
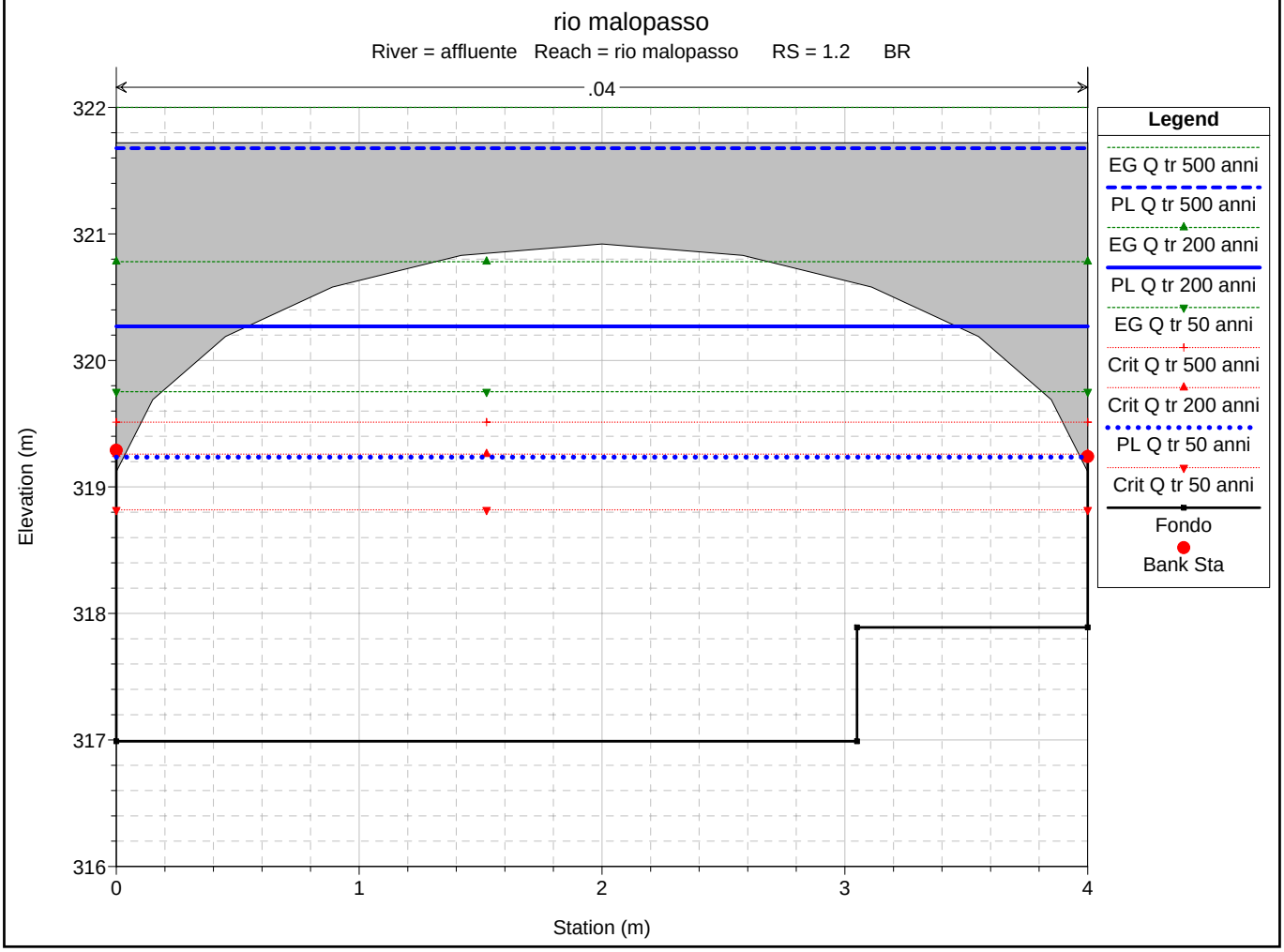
.04
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
Crit Q tr 50 anni
PL Q tr 50 anni
Fondo
Bank Sta
Elevation (m)
Station (m)
323
322
321
320
319
318
317
0
1
2
3
4
5
6
7
8


rio malopasso
River = affluente Reach = rio malopasso RS = 1.5
.04
Elevation (m)
Station (m)
322
321
320
319
318
317
316
0
1
2
3
4
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta


rio malopasso
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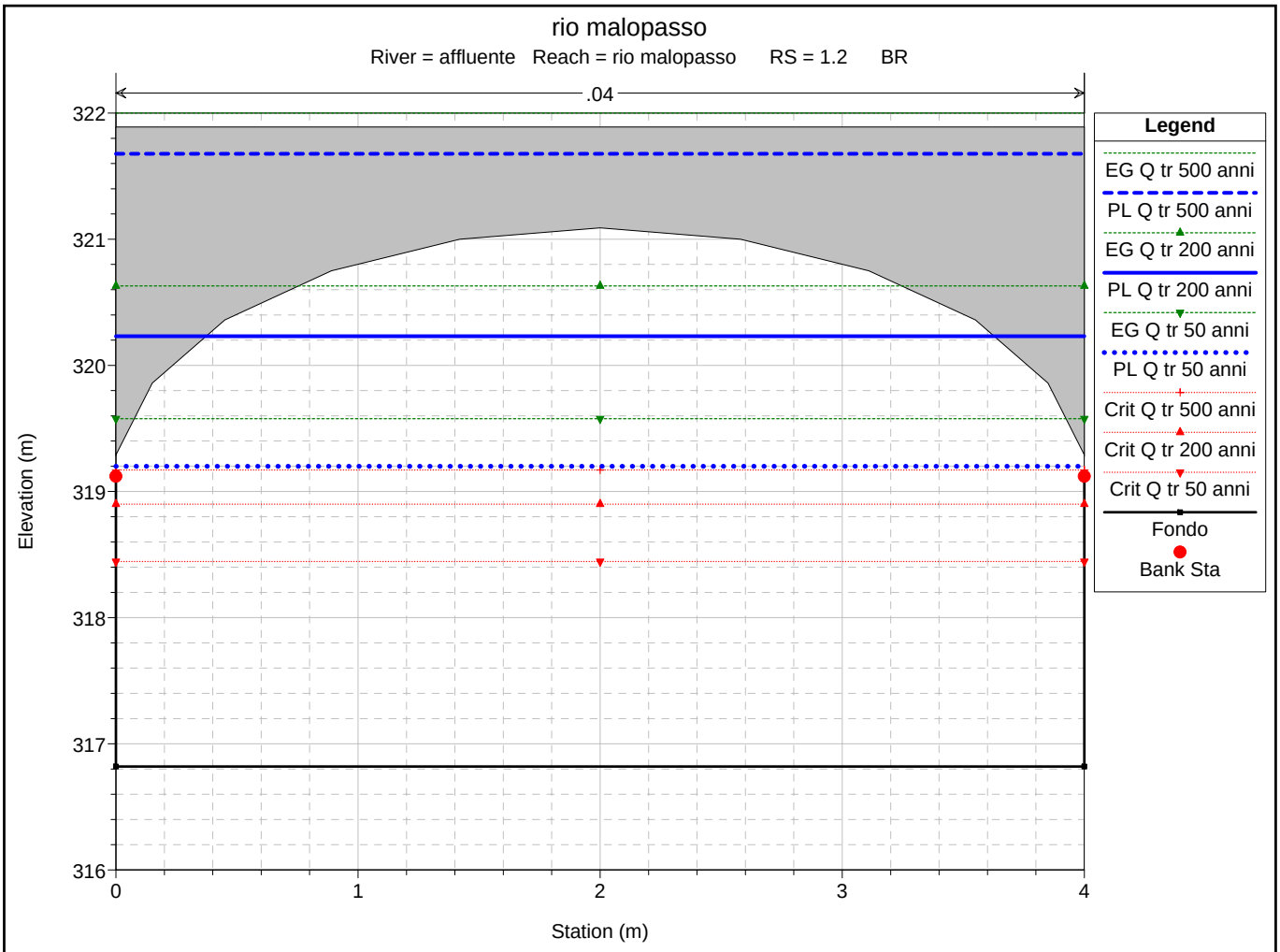
.04
Elevation (m)
Station (m)
322
321
320
319
318
317
316
0
1
2
3
4
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
PL Q tr 50 anni
Crit Q tr 50 anni
Fondo
Bank Sta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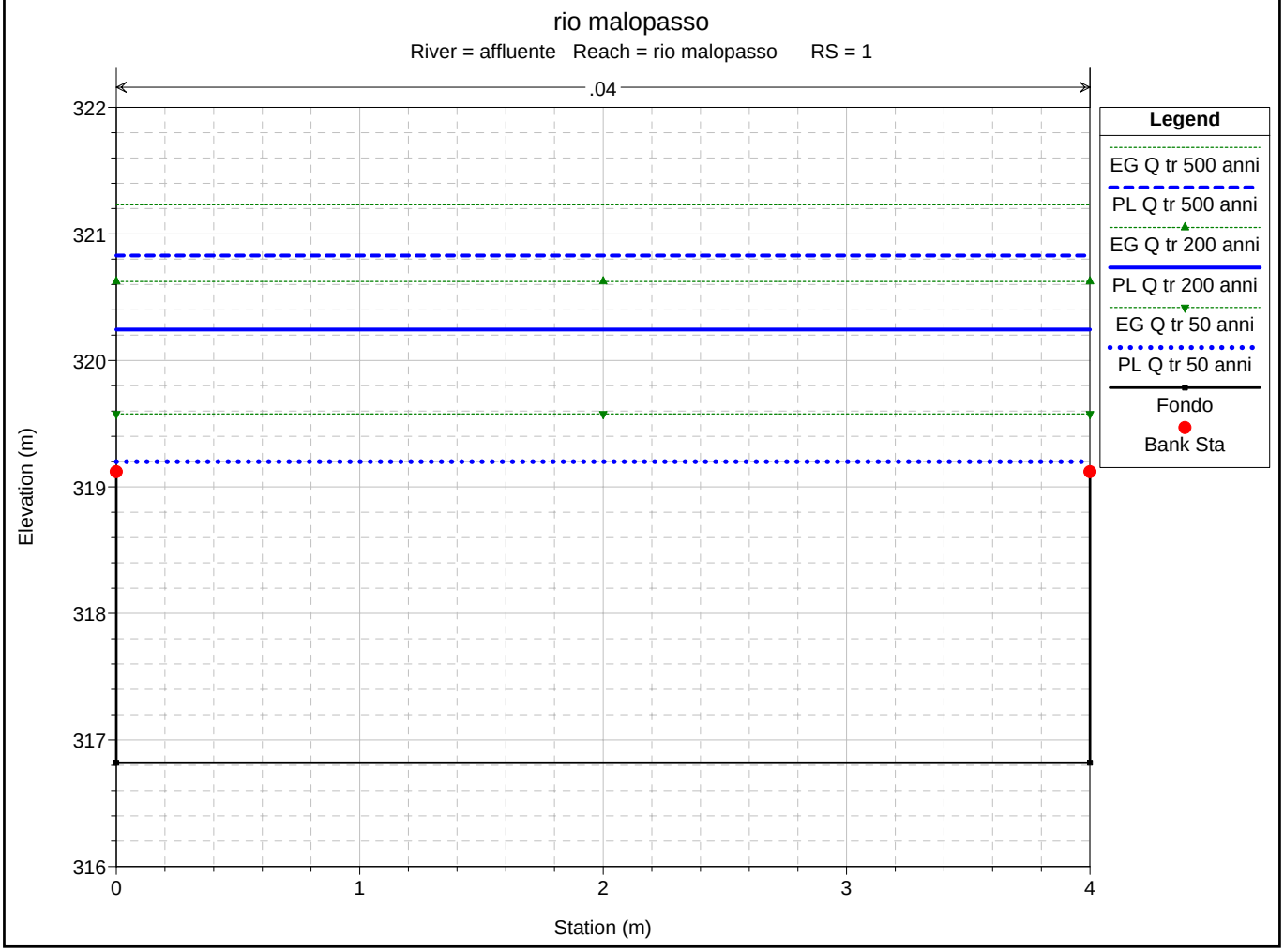
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
Fondo
Bank Sta


rio malopasso
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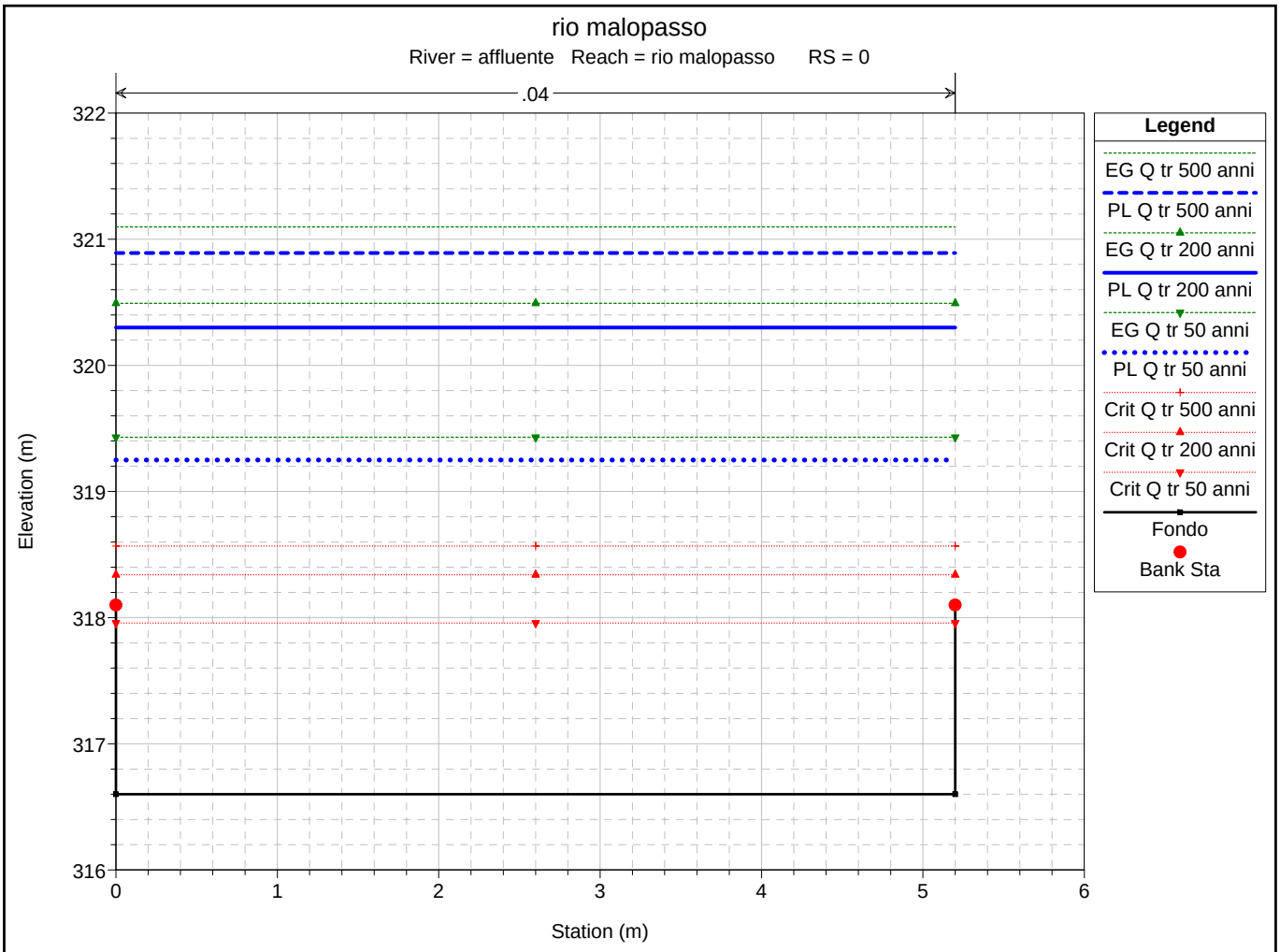
.04
Elevation (m)
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Fondo
Bank Sta


rio malopasso
River = affluente Reach = rio malopasso RS = 0
.04
Elevation (m)
322
321
320
319
318
317
316
0
1
2
3
4
5
6
Station (m)
Legend
EG Q tr 500 anni
PL Q tr 500 anni
EG Q tr 200 anni
PL Q tr 200 anni
EG Q tr 50 anni
PL Q tr 50 anni
Crit Q tr 500 anni
Crit Q tr 200 anni
Crit Q tr 50 anni
Fondo
Bank Sta

HEC-RAS Plan: Malopasso River: affluente Reach: rio malopasso

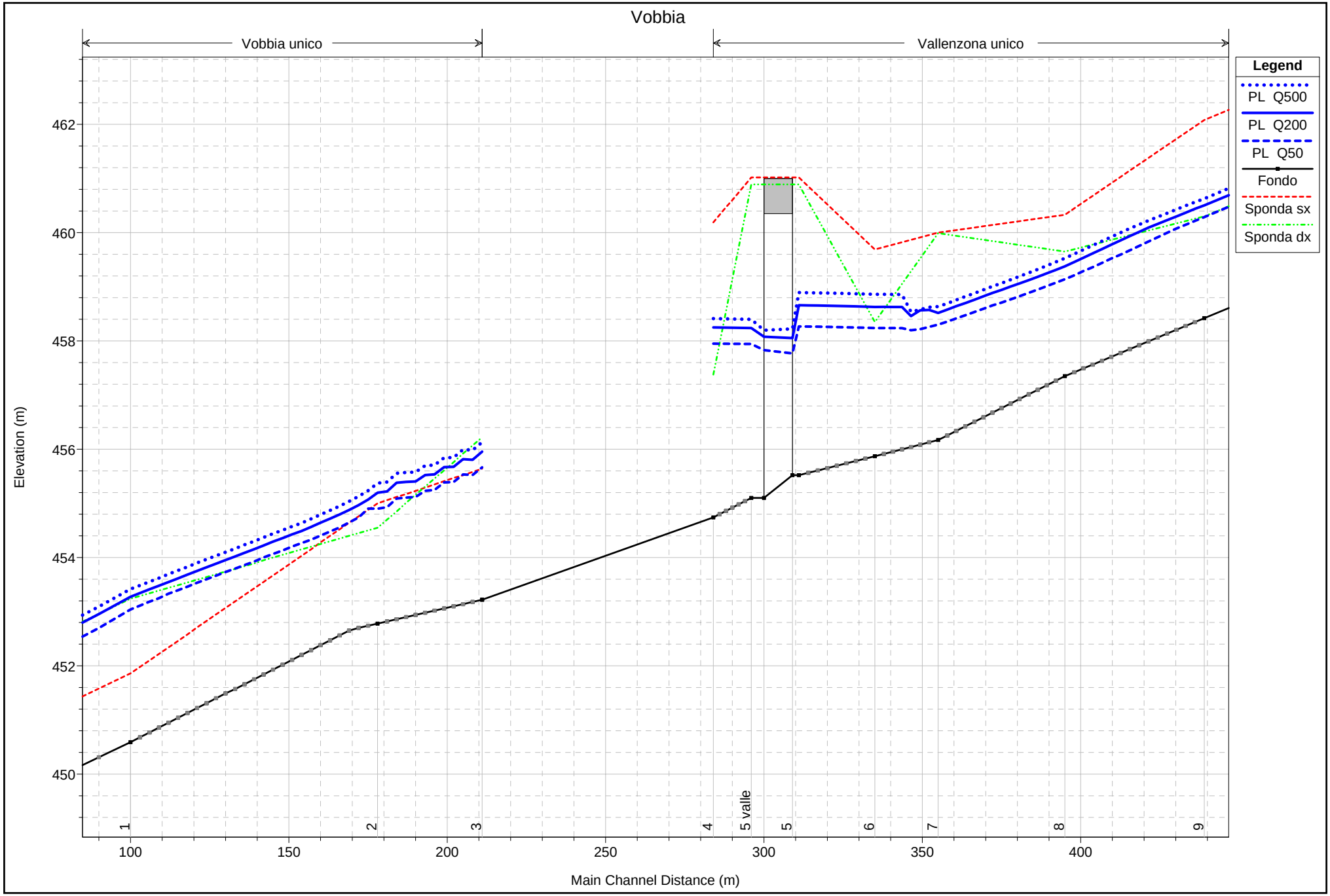
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
rio malopasso	10	Q tr 500 anni	45.00	323.40	325.46	324.56	-0.90	324.09	-1.37	325.34	325.93	0.010056	3.37	15.86	12.13	0.80
rio malopasso	10	Q tr 200 anni	37.40	323.40	325.20	324.56	-0.64	324.09	-1.11	325.20	325.71	0.013302	3.49	12.70	12.04	0.90
rio malopasso	10	Q tr 50 anni	25.90	323.40	324.97	324.56	-0.41	324.09	-0.88	324.97	325.38	0.012694	3.06	9.94	11.96	0.86
rio malopasso	9	Q tr 500 anni	45.00	322.88	325.40	323.80	-1.60	323.65	-1.75		325.74	0.004820	2.78	17.97	8.76	0.59
rio malopasso	9	Q tr 200 anni	37.40	322.88	324.99	323.80	-1.19	323.65	-1.34	324.61	325.36	0.006714	2.87	14.36	8.76	0.67
rio malopasso	9	Q tr 50 anni	25.90	322.88	324.14	323.80	-0.34	323.65	-0.49	324.33	324.92	0.031055	4.09	6.93	8.75	1.31
rio malopasso	8	Q tr 500 anni	45.00	322.04	325.40	322.71	-2.69	322.49	-2.91		325.59	0.001558	2.08	24.78	8.12	0.37
rio malopasso	8	Q tr 200 anni	37.40	322.04	325.00	322.71	-2.29	322.49	-2.51		325.18	0.001667	1.97	21.54	8.12	0.38
rio malopasso	8	Q tr 50 anni	25.90	322.04	324.35	322.71	-1.64	322.49	-1.86	323.39	324.49	0.001956	1.79	16.20	8.12	0.39
rio malopasso	7	Q tr 500 anni	45.00	321.76	324.27	323.13	-1.14	322.19	-2.08	324.27	325.44	0.030897	4.79	9.39	4.00	1.00
rio malopasso	7	Q tr 200 anni	37.40	321.76	324.00	323.13	-0.87	322.19	-1.81	324.00	325.03	0.029306	4.50	8.31	4.00	1.00
rio malopasso	7	Q tr 50 anni	25.90	321.76	323.54	323.13	-0.41	322.19	-1.35	323.54	324.36	0.027117	3.99	6.49	4.00	1.00
rio malopasso	6	Q tr 500 anni	45.00	319.78	324.23	322.19	-2.04	323.18	-1.05	322.27	324.44	0.003179	2.03	22.22	5.90	0.33
rio malopasso	6	Q tr 200 anni	37.40	319.78	323.70	322.19	-1.51	323.18	-0.52	322.05	323.90	0.003239	1.96	19.11	5.90	0.35
rio malopasso	6	Q tr 50 anni	25.90	319.78	322.76	322.19	-0.57	323.18	0.42	321.69	322.95	0.003863	1.91	13.57	5.90	0.40
rio malopasso	5.2	Q tr 500 anni	45.00	319.54	323.97	321.54	-2.43	321.39	-2.58	322.32	324.39	0.010095	2.88	15.61	3.85	0.46
rio malopasso	5.2	Q tr 200 anni	37.40	319.54	323.47	321.54	-1.93	321.39	-2.08	322.03	323.85	0.009647	2.73	13.71	3.85	0.46
rio malopasso	5.2	Q tr 50 anni	25.90	319.54	322.58	321.54	-1.04	321.39	-1.19	321.58	322.90	0.009701	2.52	10.28	3.85	0.49
rio malopasso	5.1		Bridge													
rio malopasso	5	Q tr 500 anni	45.00	319.54	322.32	321.54	-0.78	321.39	-0.93	322.32	323.52	0.038361	4.85	9.28	3.85	1.00
rio malopasso	5	Q tr 200 anni	37.40	319.54	322.03	321.54	-0.49	321.39	-0.64	322.03	323.10	0.037099	4.57	8.18	3.85	1.00
rio malopasso	5	Q tr 50 anni	25.90	319.54	321.58	321.54	-0.04	321.39	-0.19	321.58	322.41	0.034455	4.03	6.42	3.85	1.00
rio malopasso	4.1	Q tr 500 anni	45.00	319.20	320.61	321.81	1.20	321.58	0.97	321.23	322.72	0.090029	6.44	6.98	5.95	1.90
rio malopasso	4.1	Q tr 200 anni	37.40	319.20	320.48	321.81	1.33	321.58	1.10	321.03	322.34	0.089129	6.04	6.19	5.95	1.89
rio malopasso	4.1	Q tr 50 anni	25.90	319.20	320.25	321.81	1.56	321.58	1.33	320.68	321.69	0.088317	5.31	4.87	5.95	1.87
rio malopasso	4	Q tr 500 anni	45.00	317.94	321.92	321.81	-0.11	321.58	-0.34	320.34	322.18	0.004924	2.24	20.08	5.95	0.39
rio malopasso	4	Q tr 200 anni	37.40	317.94	319.08	321.81	2.73	321.58	2.50	320.14	322.20	0.146548	7.82	4.78	4.20	2.34
rio malopasso	4	Q tr 50 anni	25.90	317.94	318.78	321.81	3.03	321.58	2.80	319.51	321.55	0.172255	7.37	3.52	4.20	2.57
rio malopasso	3	Q tr 500 anni	45.00	317.93	321.83	321.75	-0.08	321.55	-0.28		322.14	0.005596	2.46	18.31	5.78	0.44
rio malopasso	3	Q tr 200 anni	37.40	317.93	320.52	321.75	1.23	321.55	1.03	320.16	321.11	0.015173	3.40	11.00	5.39	0.76
rio malopasso	3	Q tr 50 anni	25.90	317.93	320.15	321.75	1.60	321.55	1.40	319.77	320.57	0.012680	2.88	9.00	5.28	0.70
rio malopasso	2.1	Q tr 500 anni	45.00	318.44	321.86	322.89	1.03	321.64	-0.22		322.07	0.003336	2.00	22.52	7.30	0.36
rio malopasso	2.1	Q tr 200 anni	37.40	318.44	320.49	322.89	2.39	321.64	1.14		320.95	0.012100	2.98	12.54	7.30	0.73
rio malopasso	2.1	Q tr 50 anni	25.90	318.44	319.86	322.89	3.03	321.64	1.78	319.86	320.41	0.022727	3.27	7.93	7.30	1.00
rio malopasso	2	Q tr 500 anni	45.00	317.79	321.91	322.24	0.33	320.99	-0.92		322.04	0.001922	1.63	27.61	7.30	0.27
rio malopasso	2	Q tr 200 anni	37.40	317.79	320.67	322.24	1.57	320.99	0.32		320.87	0.003952	2.02	18.53	7.30	0.40
rio malopasso	2	Q tr 50 anni	25.90	317.79	318.78	322.24	3.46	320.99	2.21	319.21	320.30	0.112260	5.47	4.73	7.30	2.17
rio malopasso	1.5	Q tr 500 anni	45.00	316.99	321.68	319.29	-2.39	319.24	-2.44	319.55	322.00	0.006862	2.51	17.90	4.00	0.38
rio malopasso	1.5	Q tr 200 anni	37.40	316.99	320.35	319.29	-1.06	319.24	-1.11	319.28	320.80	0.011414	2.97	12.58	4.00	0.53

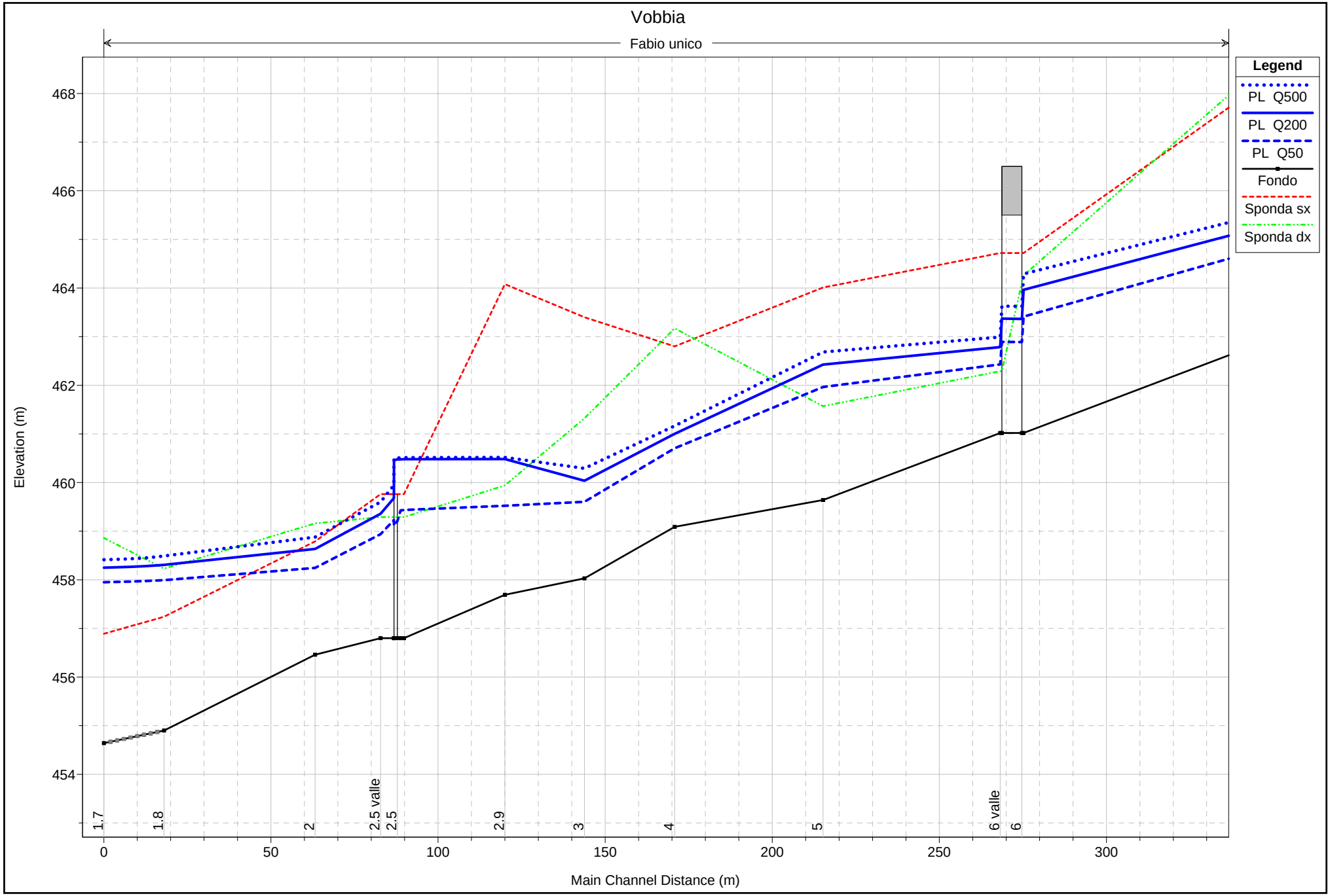
HEC-RAS Plan: Malopasso River: affluente Reach: rio malopasso (Continued)

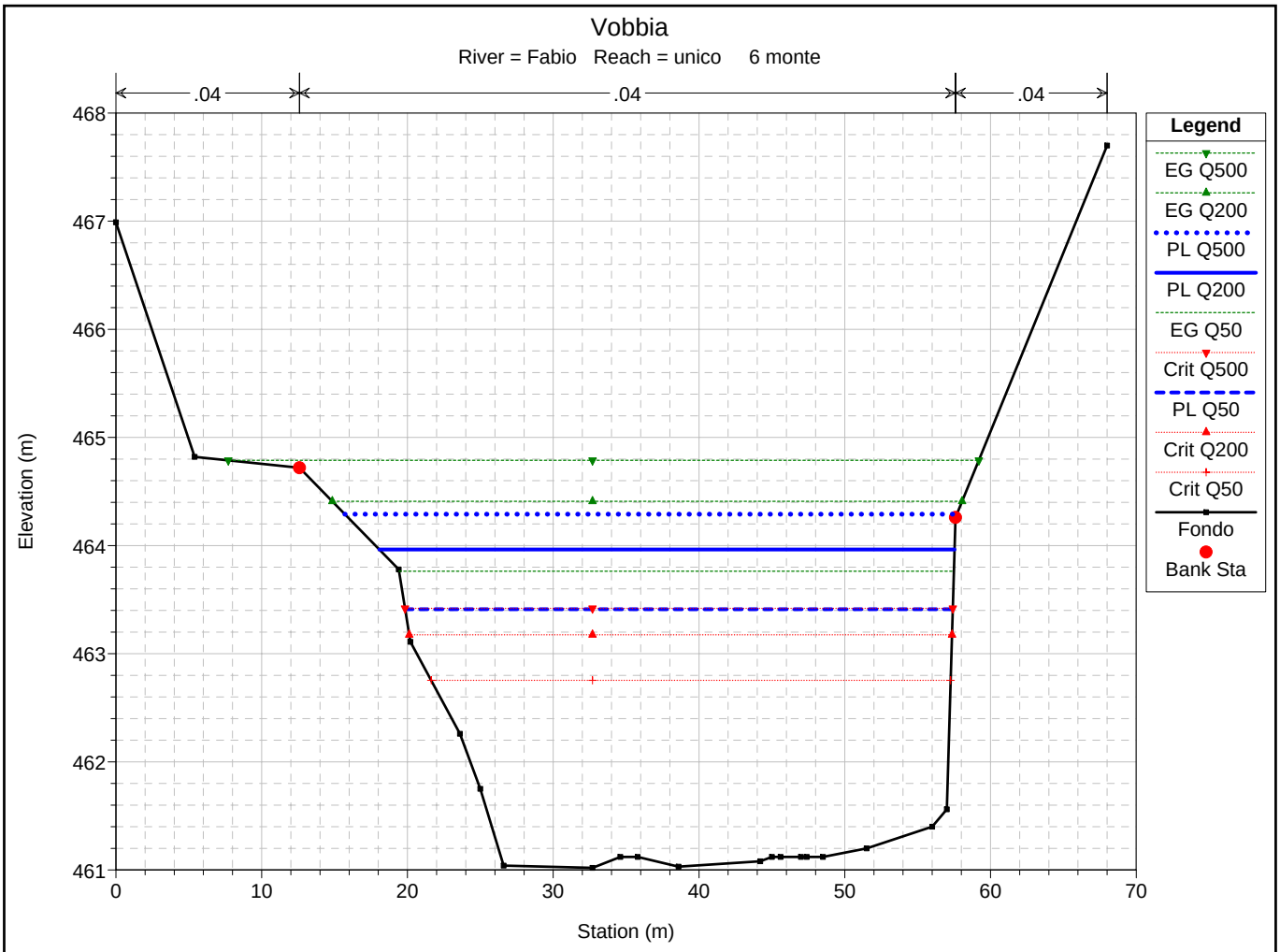
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
rio malopasso	1.5	Q tr 50 anni	25.90	316.99	319.27	319.29	0.02	319.24	-0.03	318.82	319.77	0.016387	3.13	8.28	4.00	0.69
rio malopasso	1.2		Bridge													
rio malopasso	1	Q tr 500 anni	45.00	316.82	320.83	319.12	-1.71	319.12	-1.71		321.23	0.008578	2.81	16.04	4.00	0.45
rio malopasso	1	Q tr 200 anni	37.40	316.82	320.24	319.12	-1.12	319.12	-1.12		320.62	0.008743	2.73	13.70	4.00	0.47
rio malopasso	1	Q tr 50 anni	25.90	316.82	319.20	319.12	-0.08	319.12	-0.08		319.58	0.010597	2.72	9.52	4.00	0.56
rio malopasso	0	Q tr 500 anni	45.00	316.60	320.89	318.10	-2.79	318.10	-2.79	318.57	321.10	0.003425	2.02	22.31	5.20	0.31
rio malopasso	0	Q tr 200 anni	37.40	316.60	320.30	318.10	-2.20	318.10	-2.20	318.34	320.49	0.003439	1.94	19.24	5.20	0.32
rio malopasso	0	Q tr 50 anni	25.90	316.60	319.25	318.10	-1.15	318.10	-1.15	317.96	319.43	0.003934	1.88	13.78	5.20	0.37

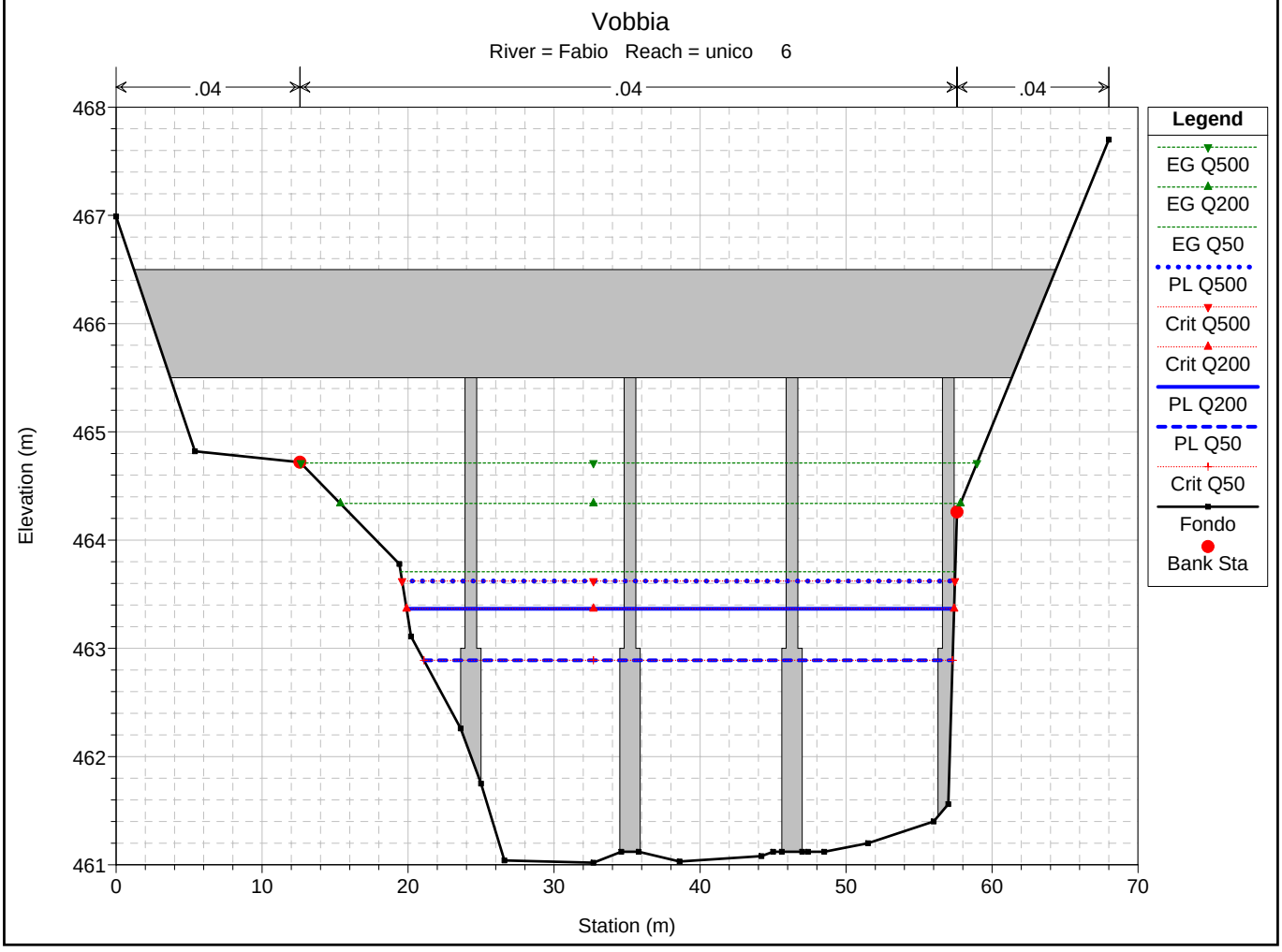
Torrente Vobbia (loc. Vobbia)

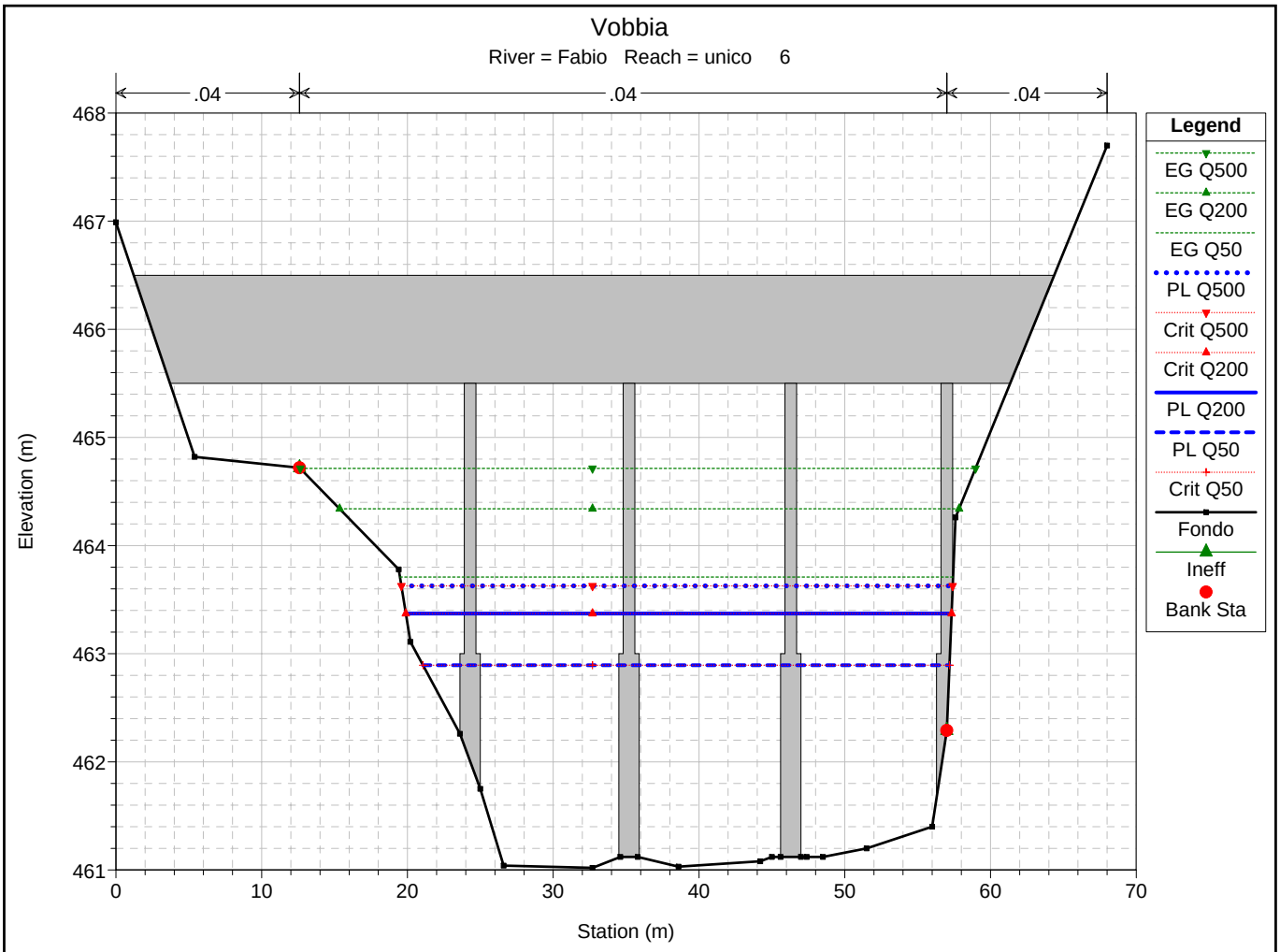
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

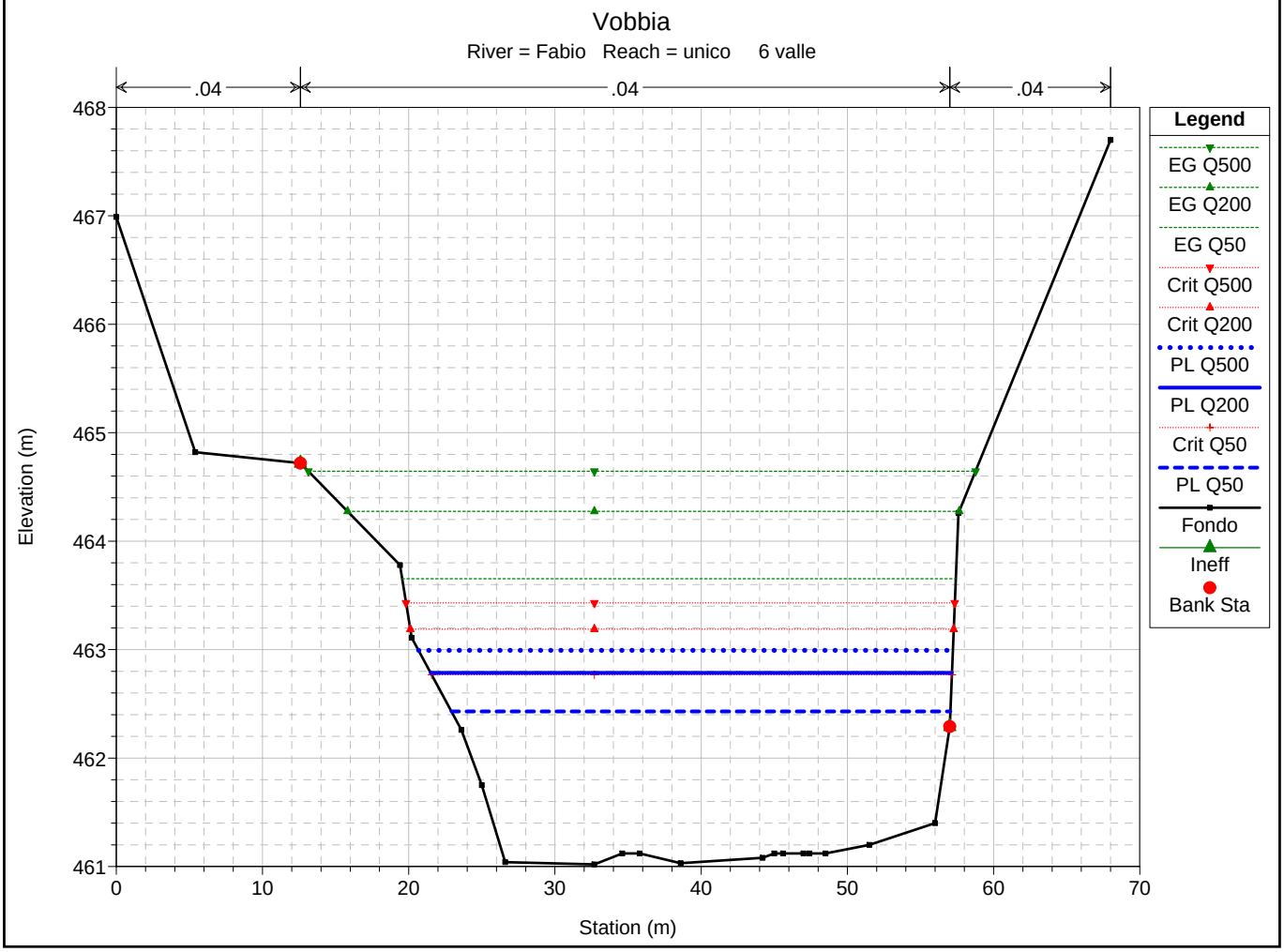

Vobbia
Vobbia unico
Vallenzona unico
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
462
460
458
456
454
452
450
1
2
3
4
5 valle
5
6
7
8
9
100
150
200
250
300
350
400
Main Channel Distance (m)


Vobbia
Fabio unico
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
468
466
464
462
460
458
456
454
0
50
100
150
200
250
300
Main Channel Distance (m)
1.7
1.8
2
2.5 valle
2.5
2.9
3
4
5
6 valle
6


Vobbia
River = Fabio Reach = unico 6 monte
.04
.04
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
468
467
466
465
464
463
462
461
0
10
20
30
40
50
60
70


Vobbia
River = Fabio Reach = unico 6
.04
.04
.04
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
468
467
466
465
464
463
462
461
0
10
20
30
40
50
60
70


Vobbia
River = Fabio Reach = unico 6
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Ineff
Bank Sta


Vobbia
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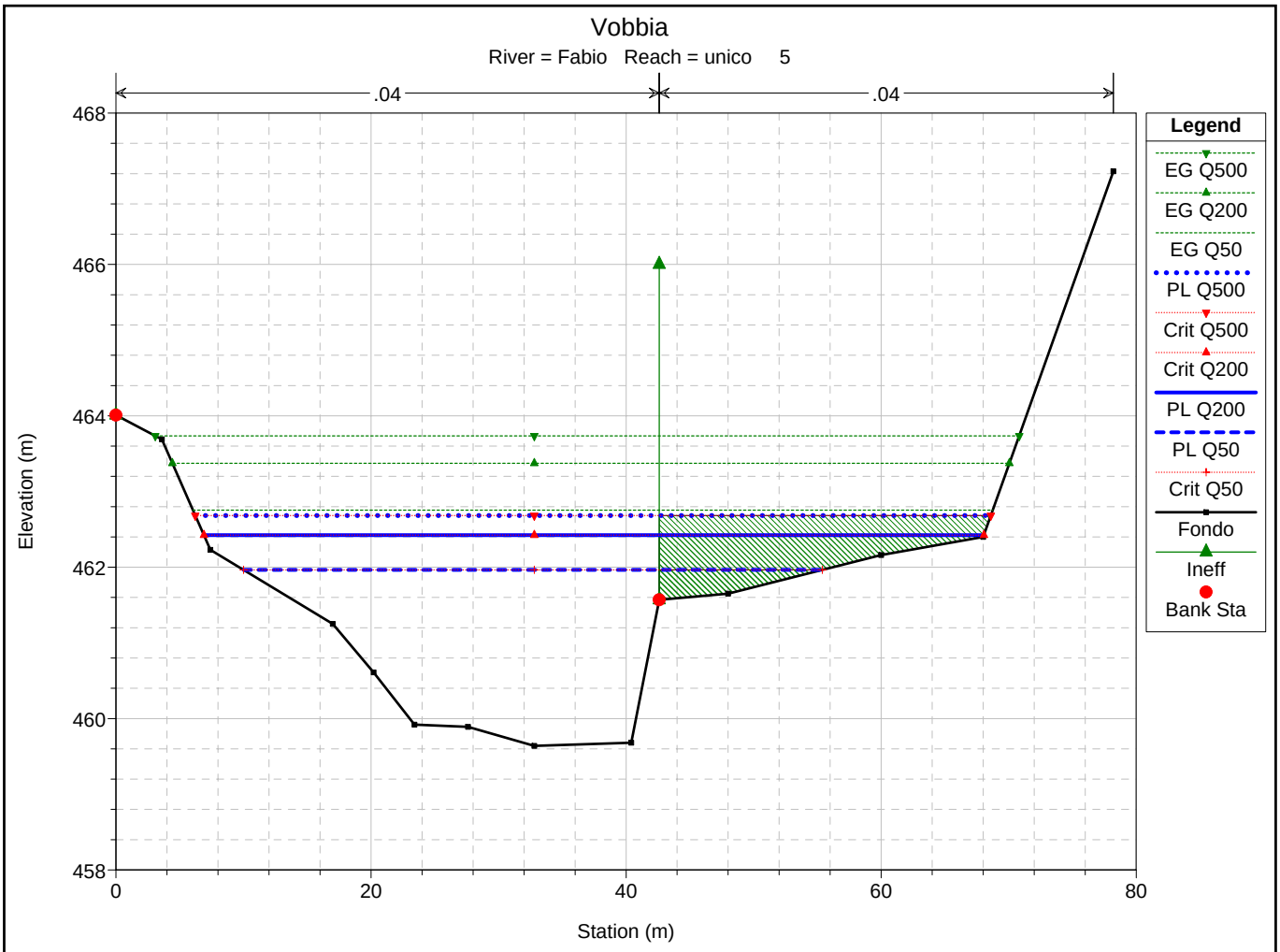
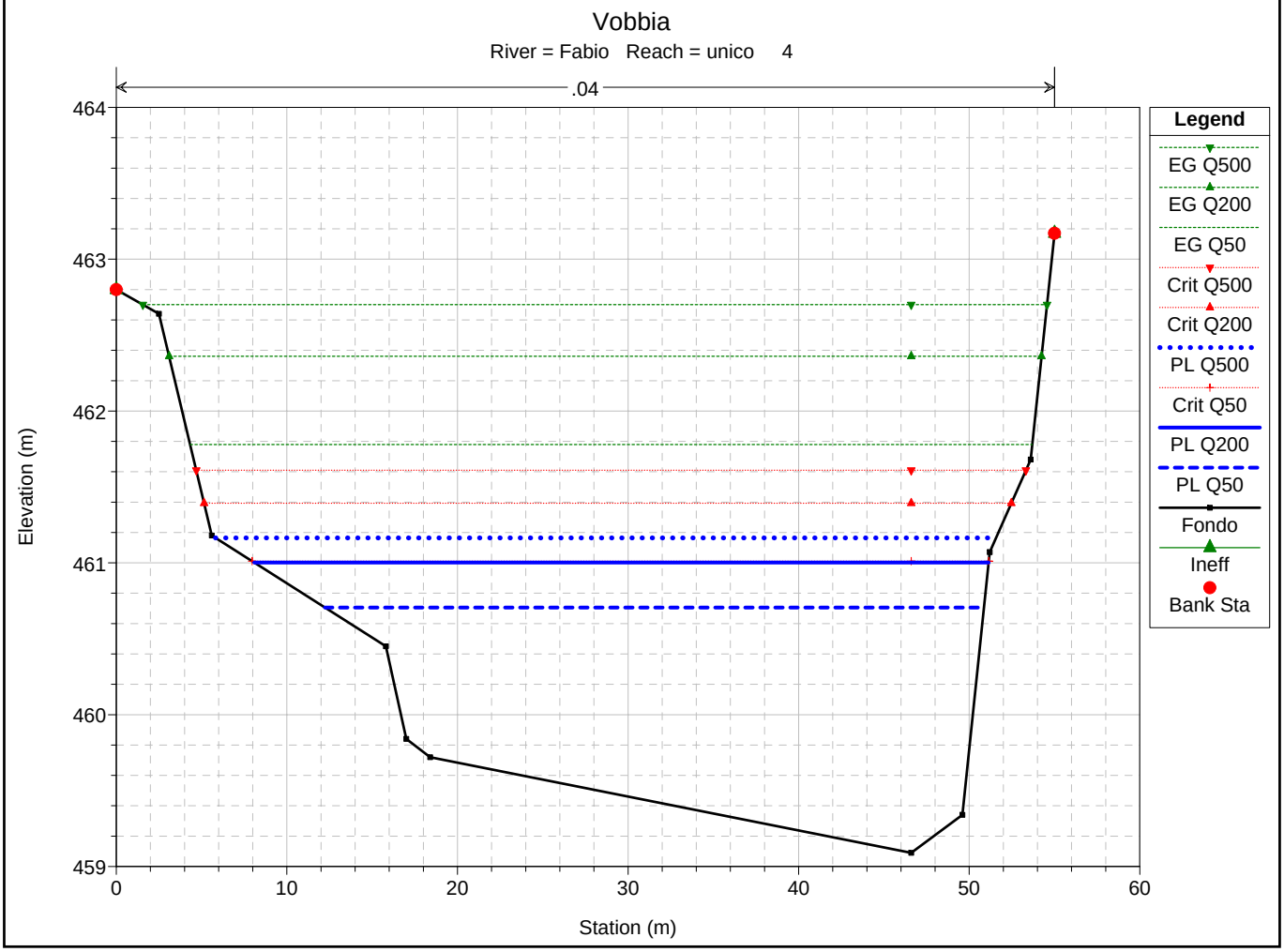
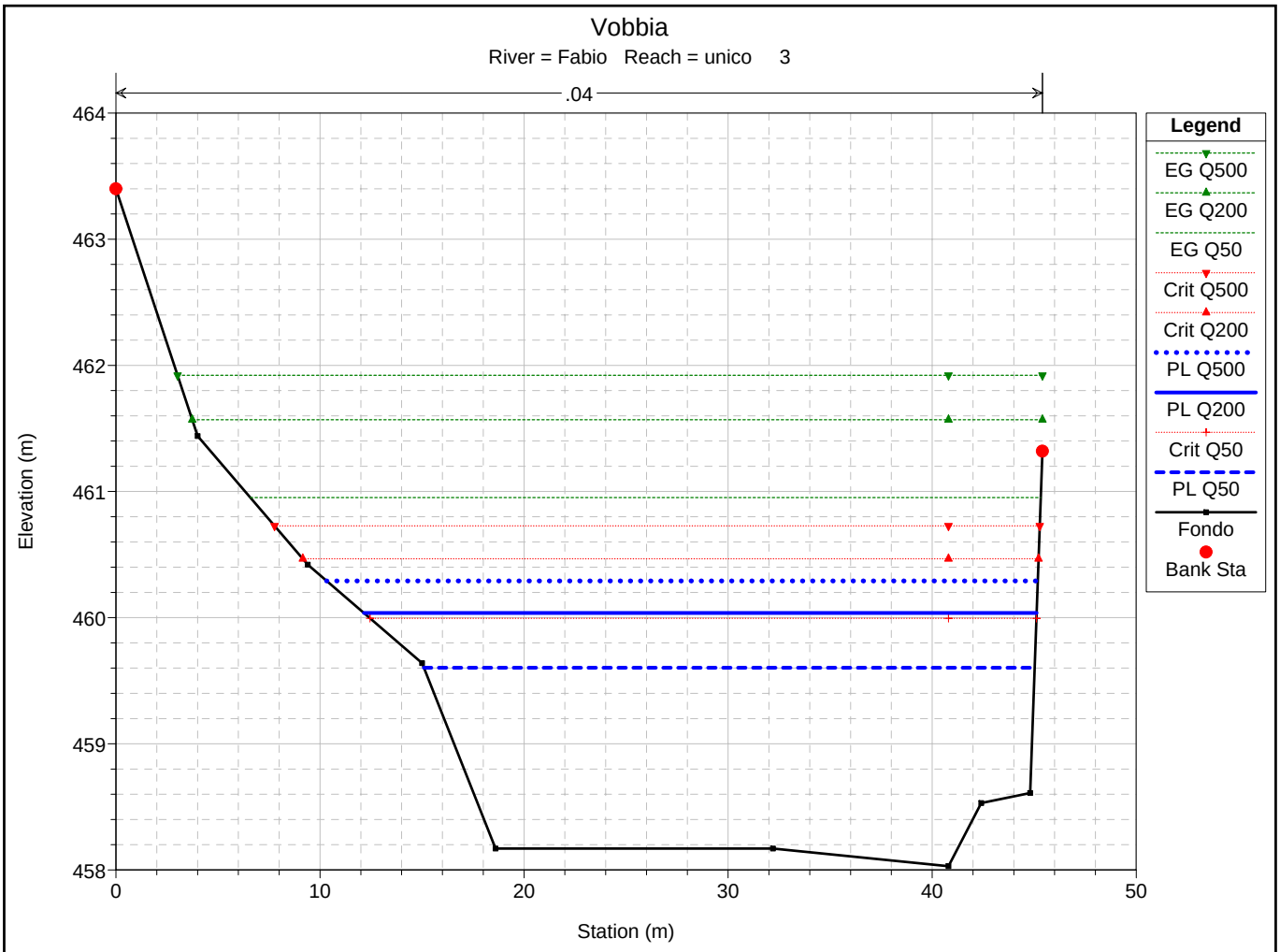
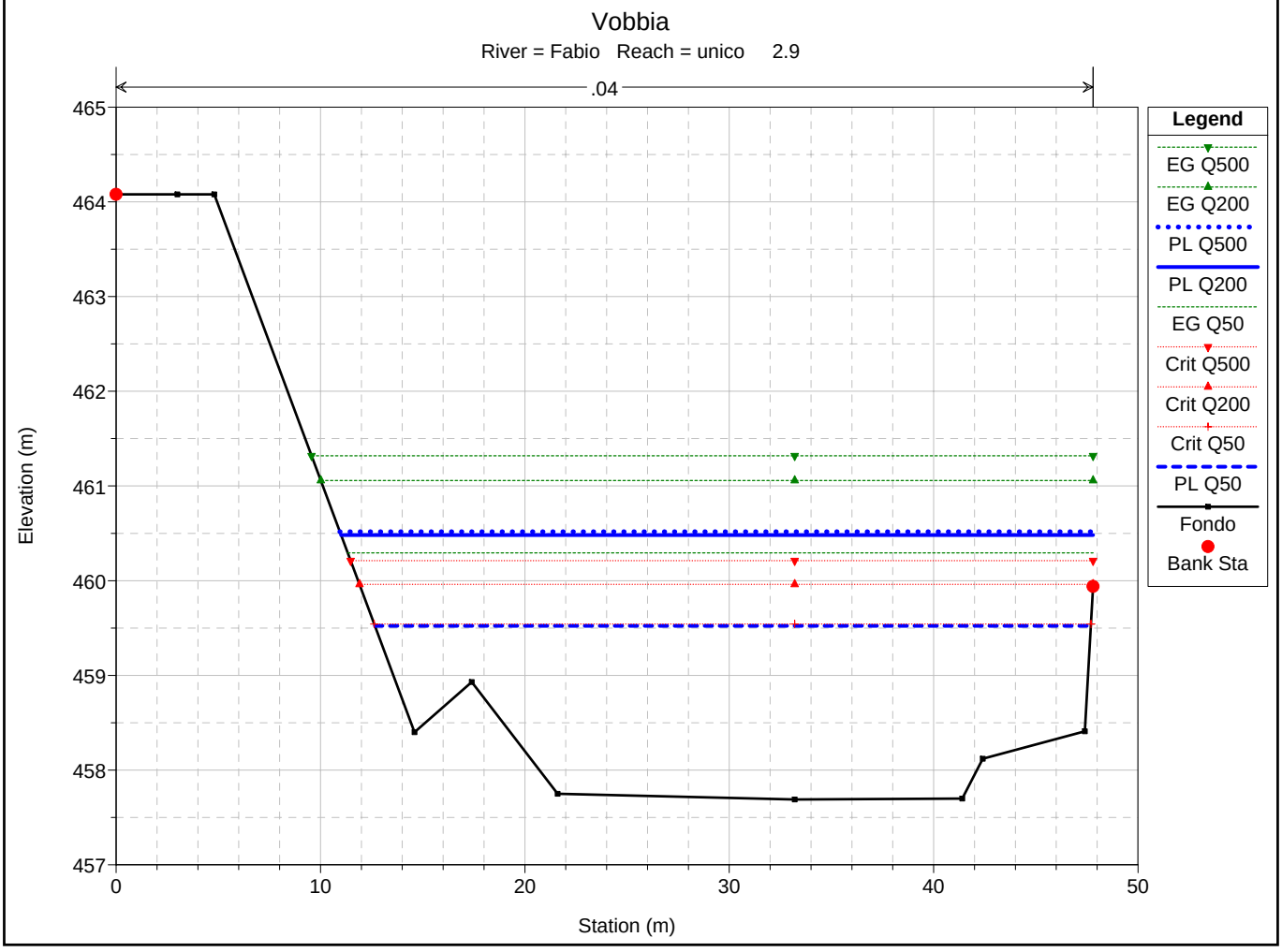
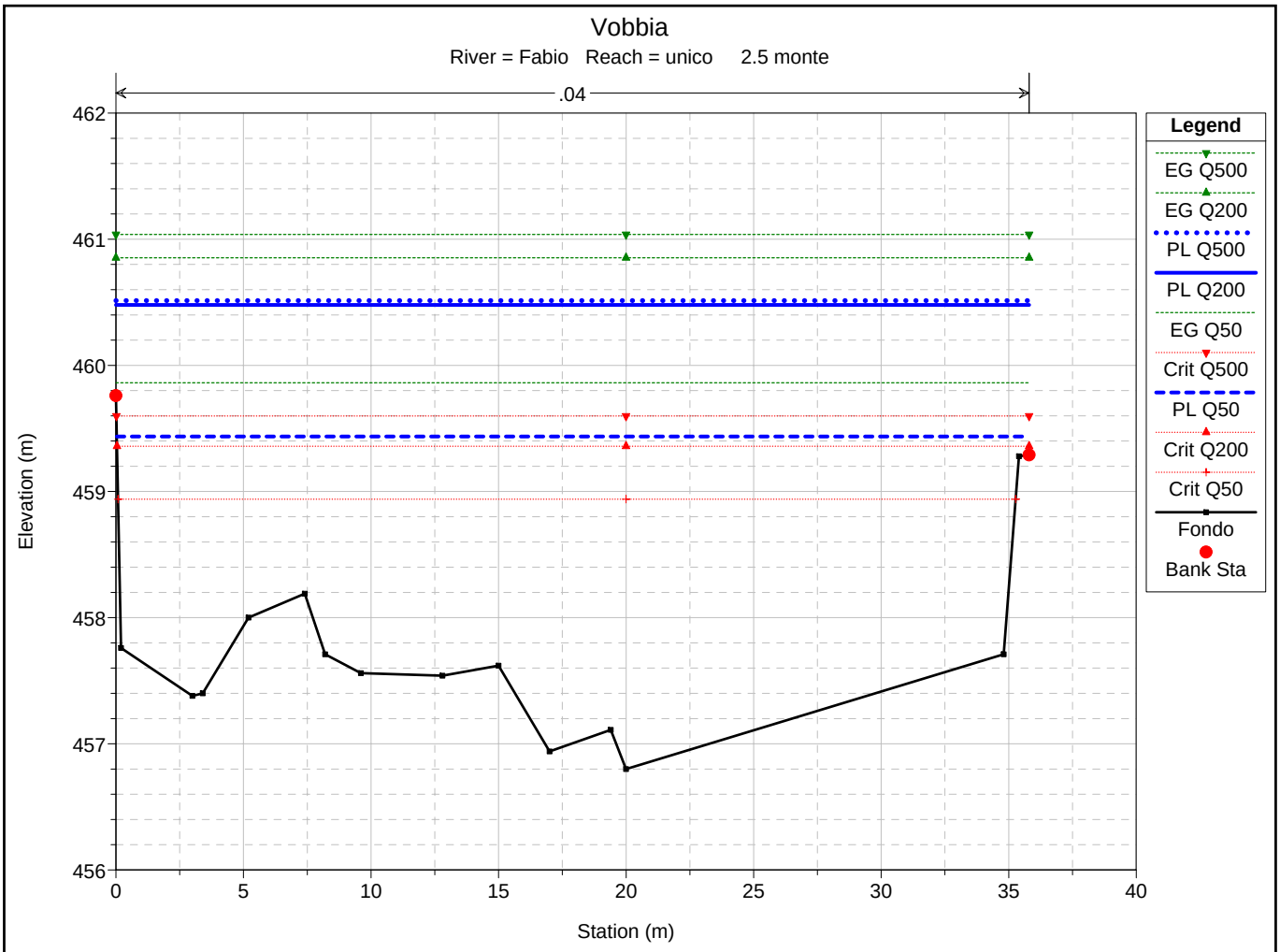
.04
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Ineff
Bank Sta

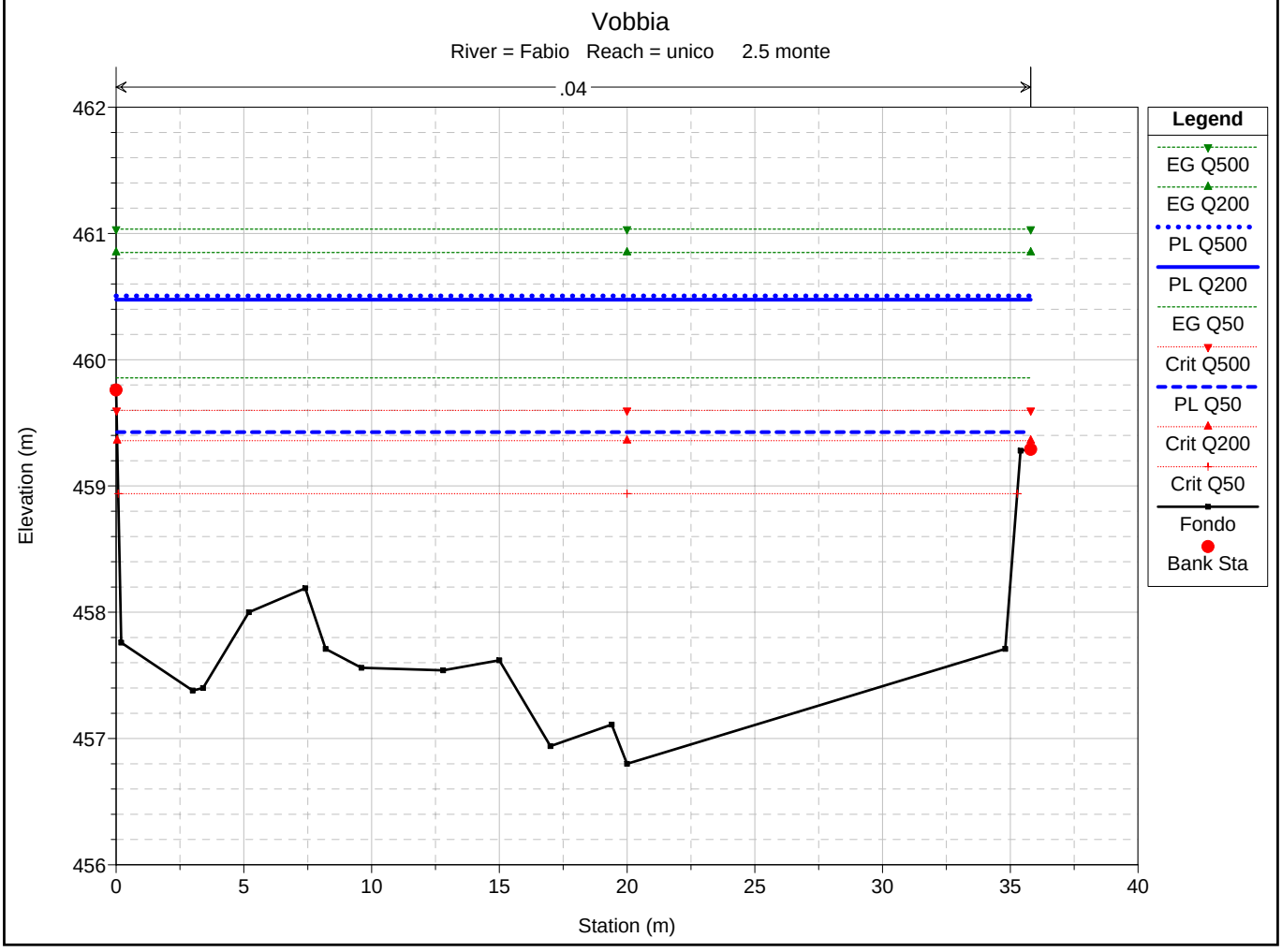

Vobbia
River = Fabio Reach = unico 5
.04
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Ineff
Bank Sta

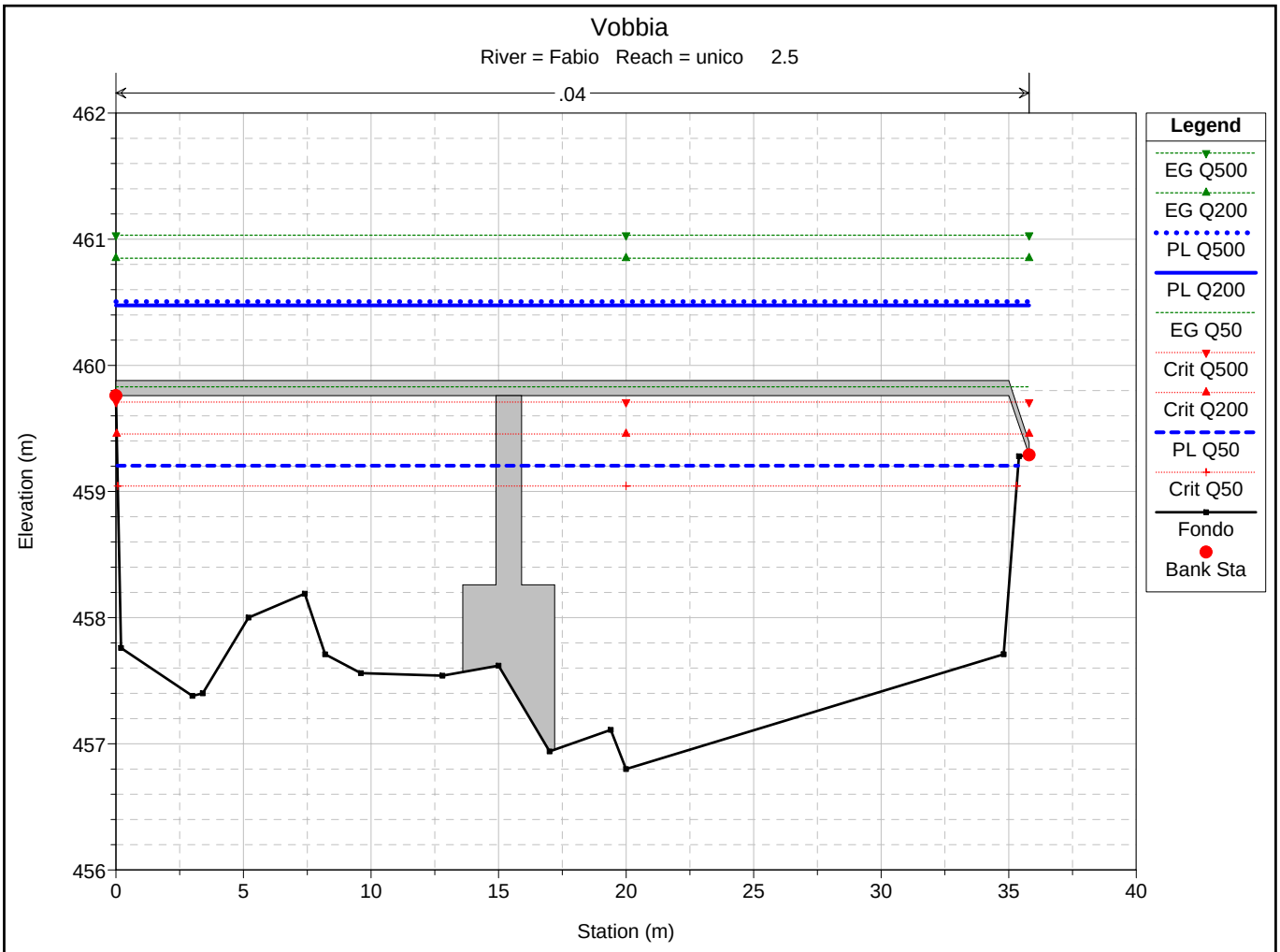

Vobbia
River = Fabio Reach = unico 4
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Ineff
Bank Sta

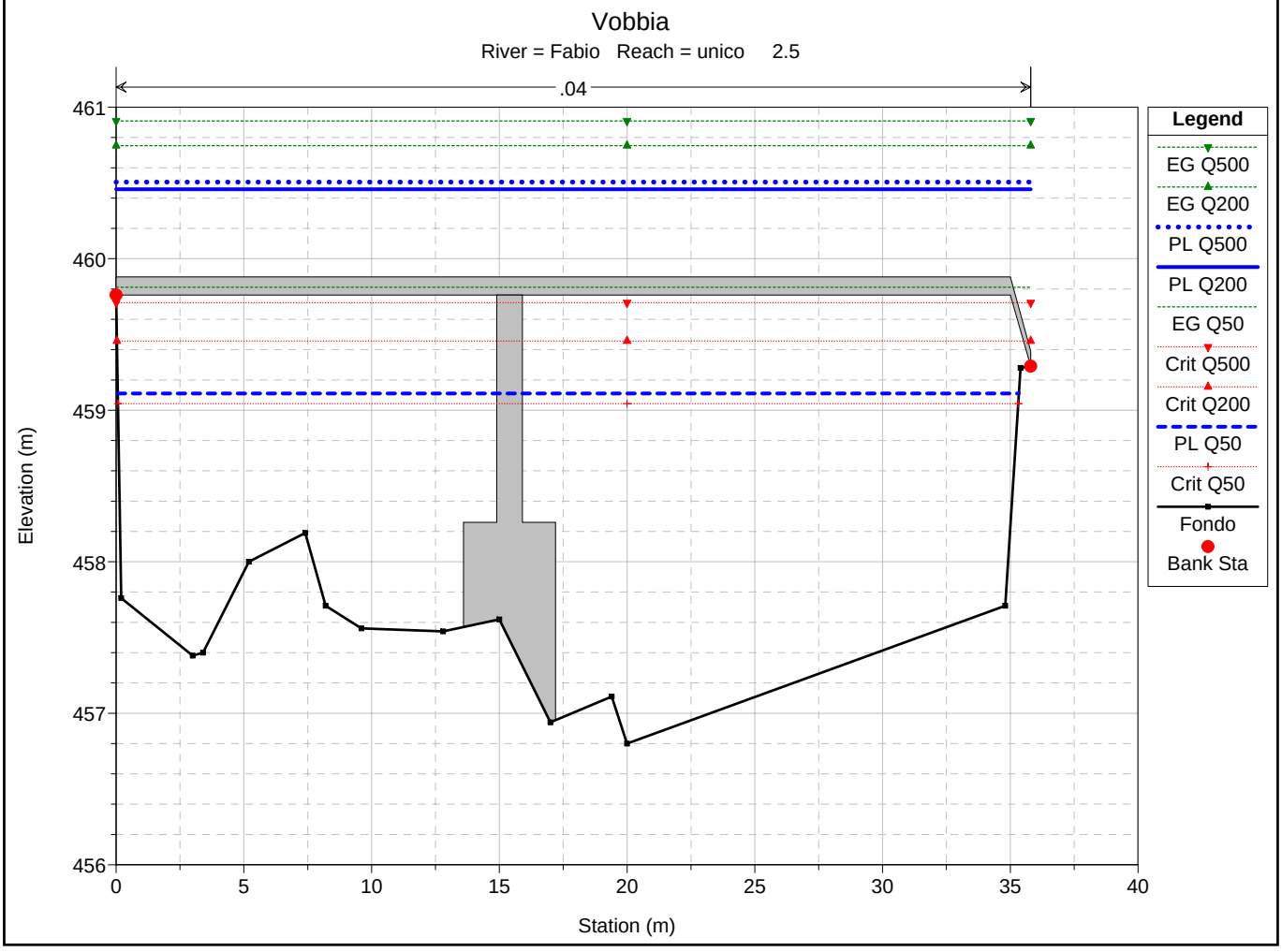

Vobbia
River = Fabio Reach = unico 3
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

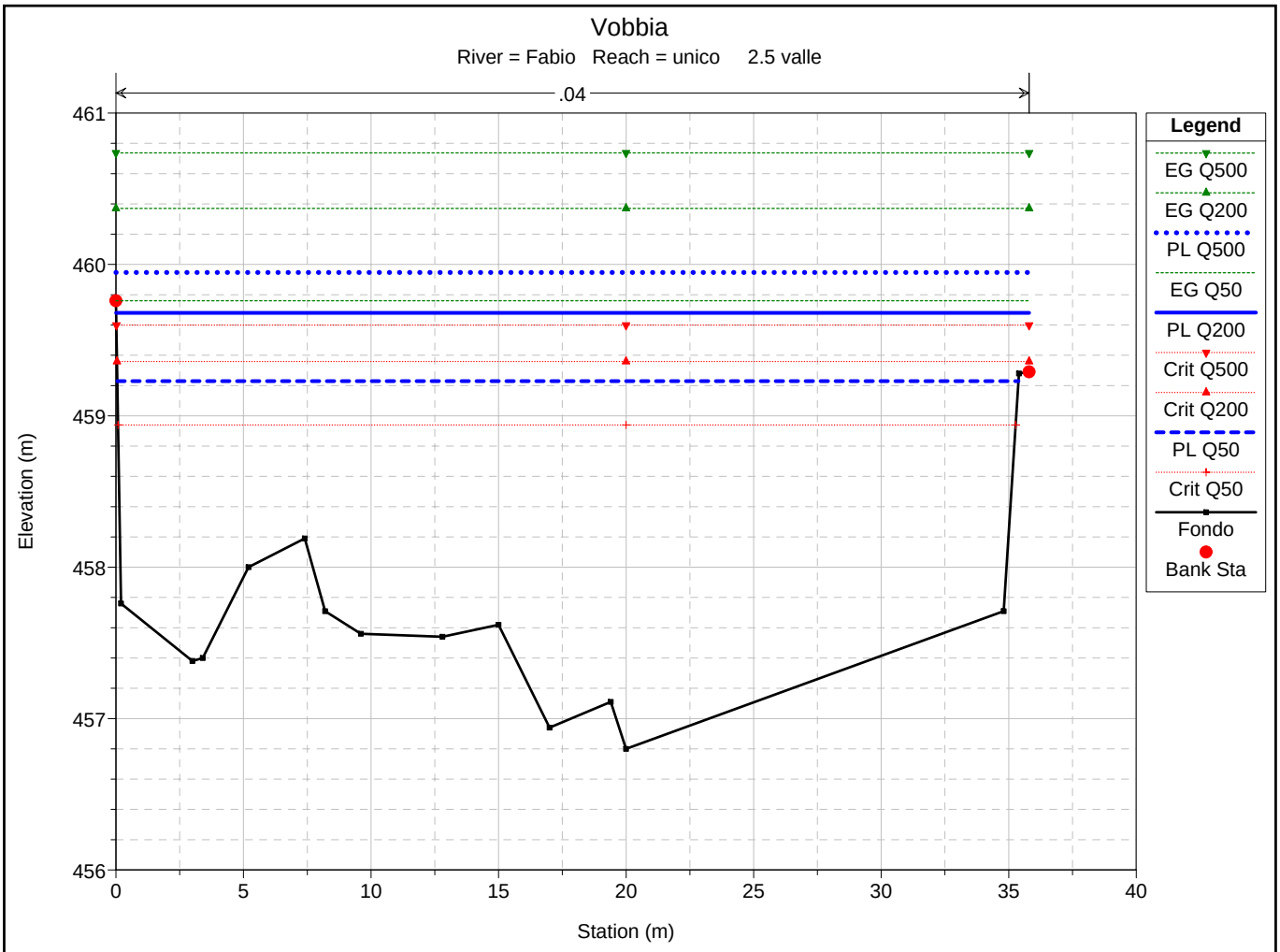

Vobbia
River = Fabio Reach = unico 2.9
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q50
Fondo
Bank Sta

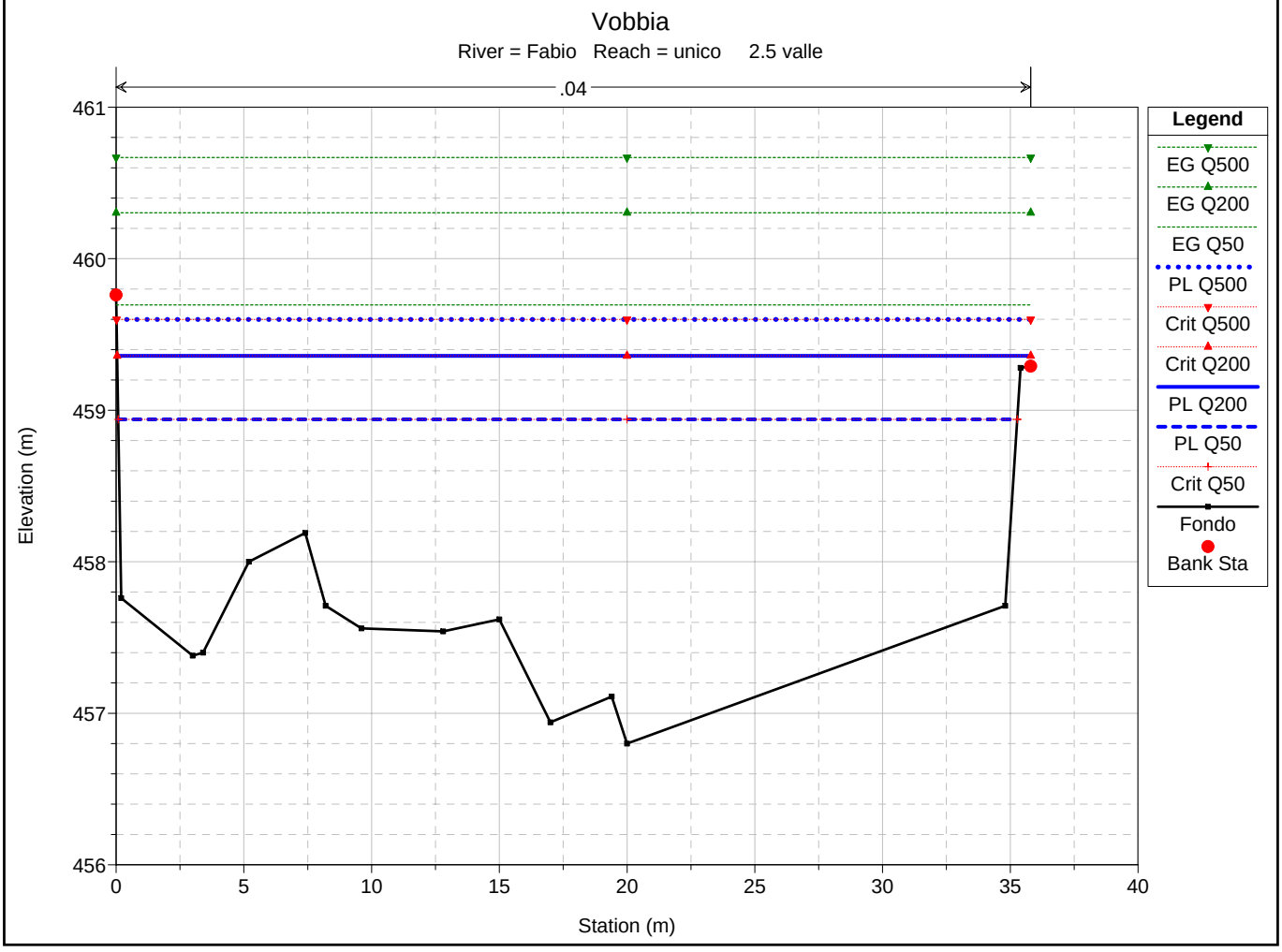

Vobbia
River = Fabio Reach = unico 2.5 monte
.04
Elevation (m)
Station (m)
462
461
460
459
458
457
456
0
5
10
15
20
25
30
35
40
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta

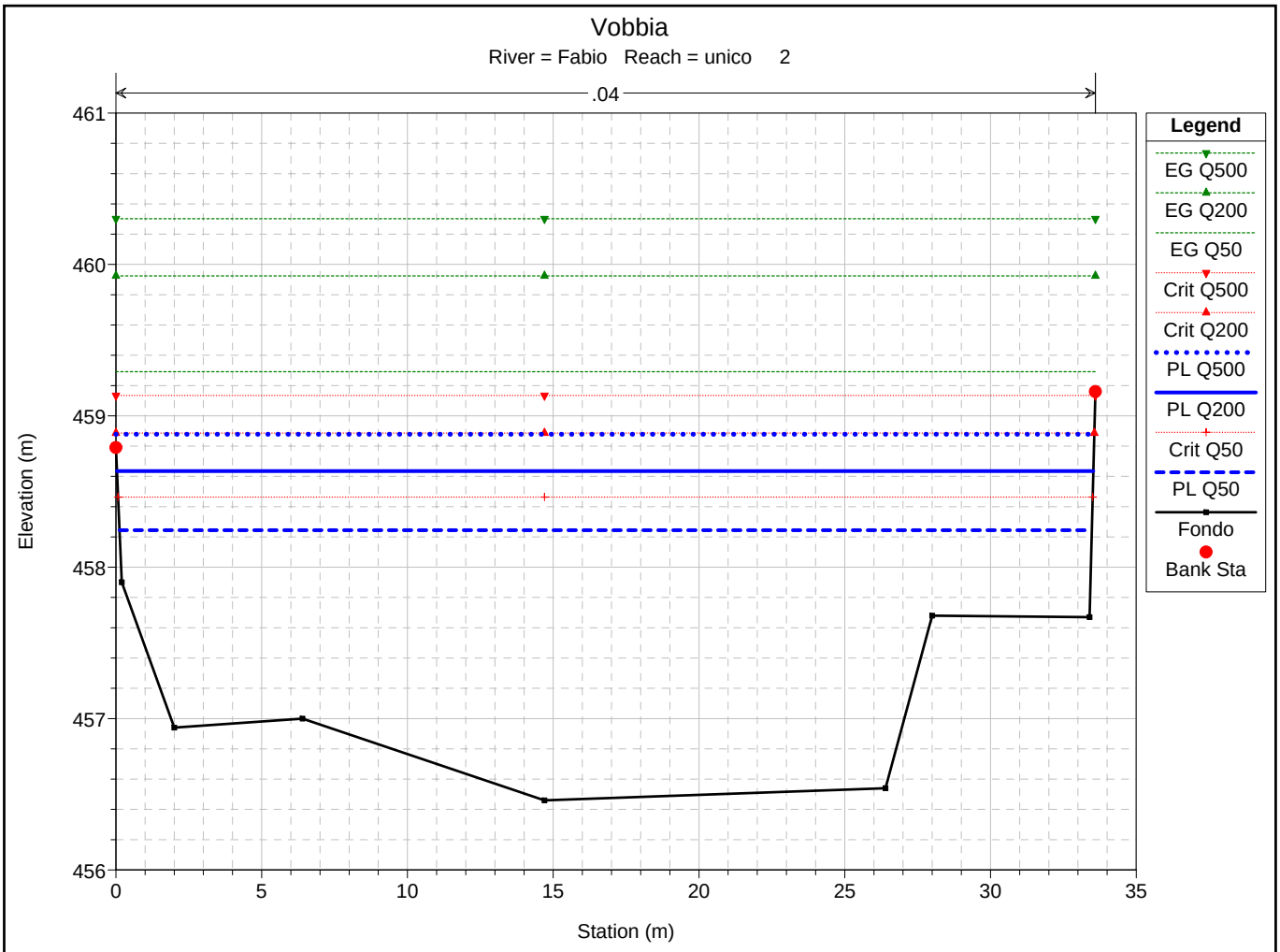

Vobbia
River = Fabio Reach = unico 2.5 monte
.04
Elevation (m)
Station (m)
462
461
460
459
458
457
456
0
5
10
15
20
25
30
35
40
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta

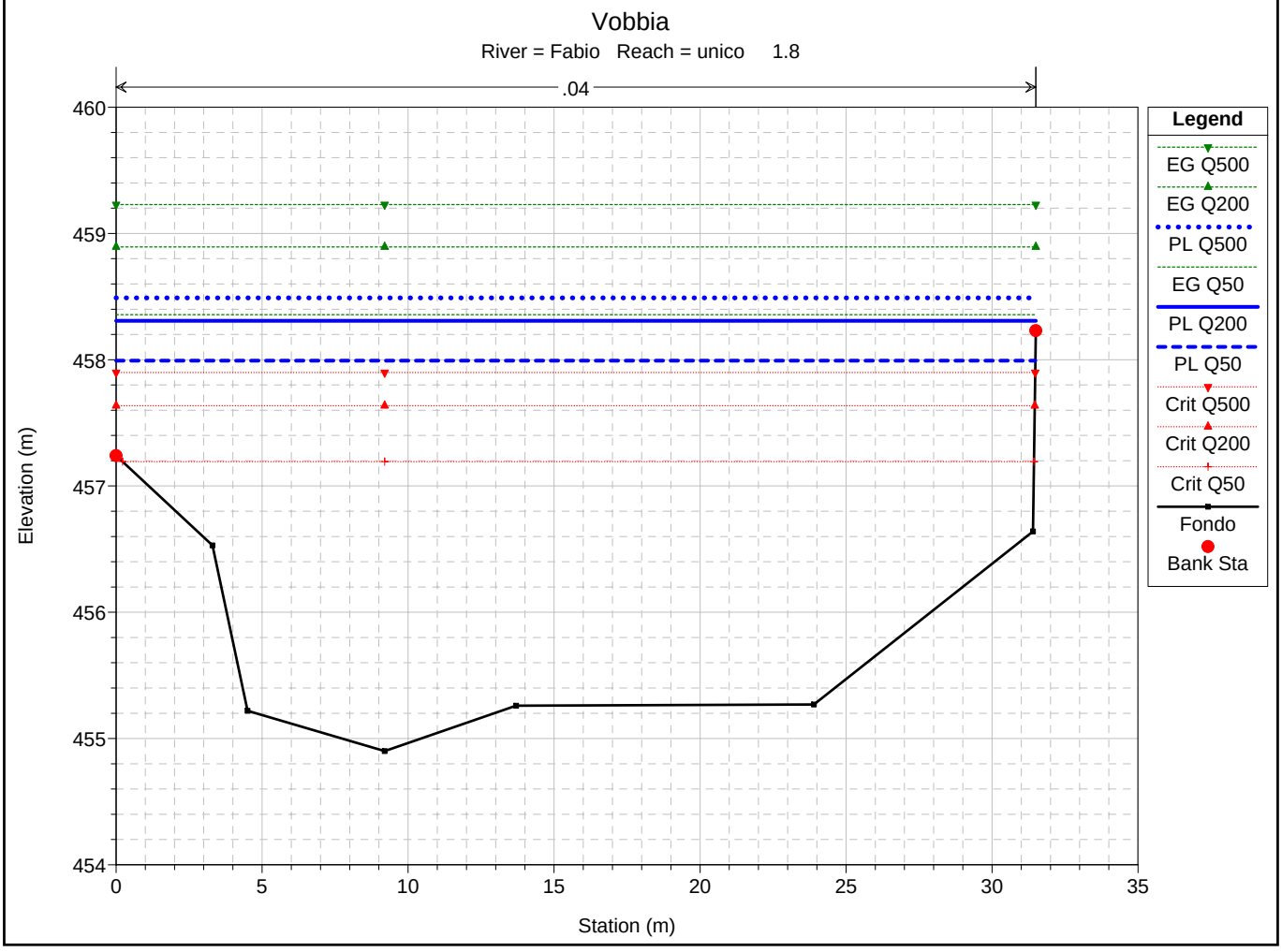

Vobbia
River = Fabio Reach = unico 2.5
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

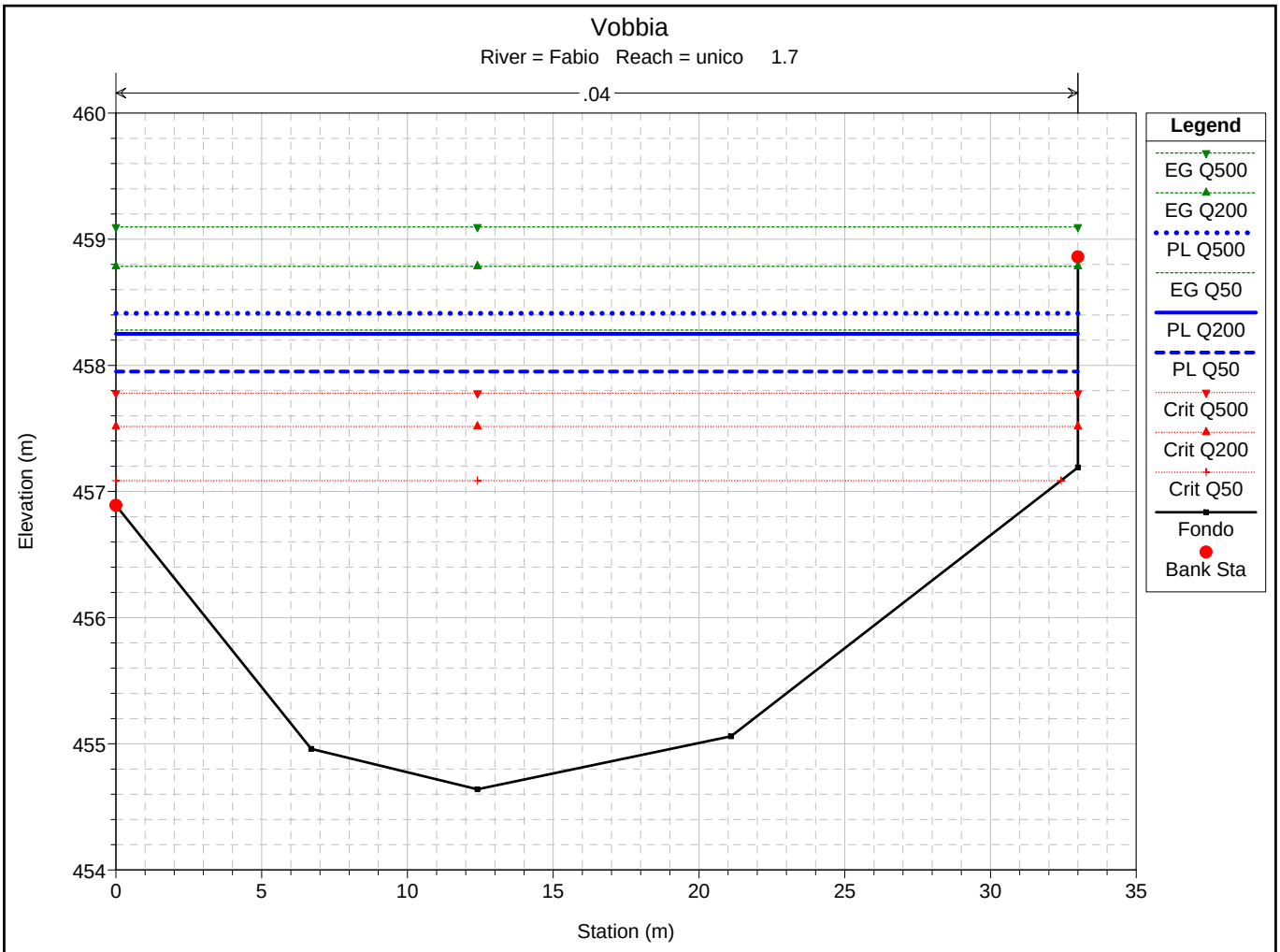

Vobbia
River = Fabio Reach = unico 2.5
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

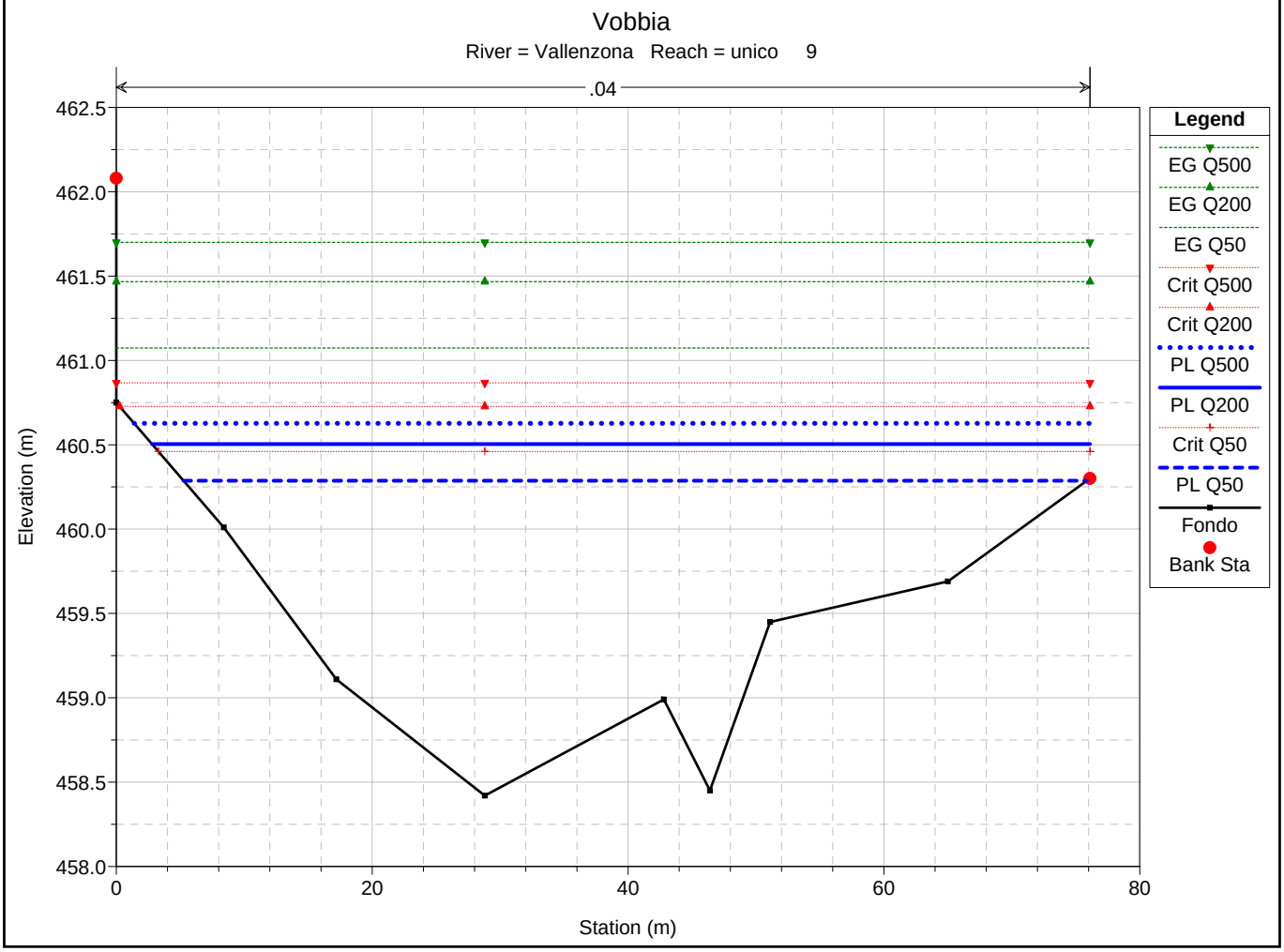

Vobbia
River = Fabio Reach = unico 2.5 valle
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

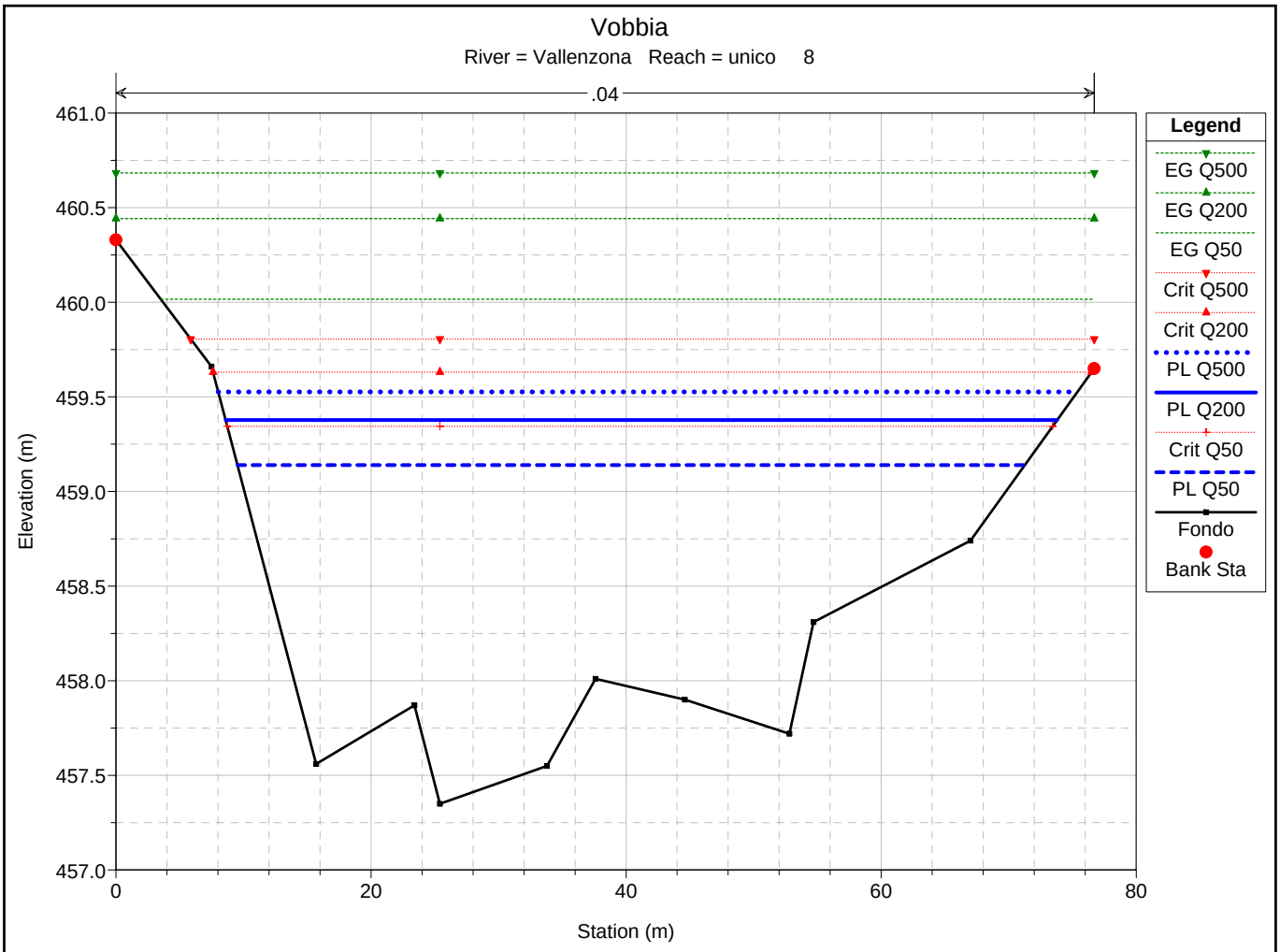

Vobbia
River = Fabio Reach = unico 2.5 valle
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

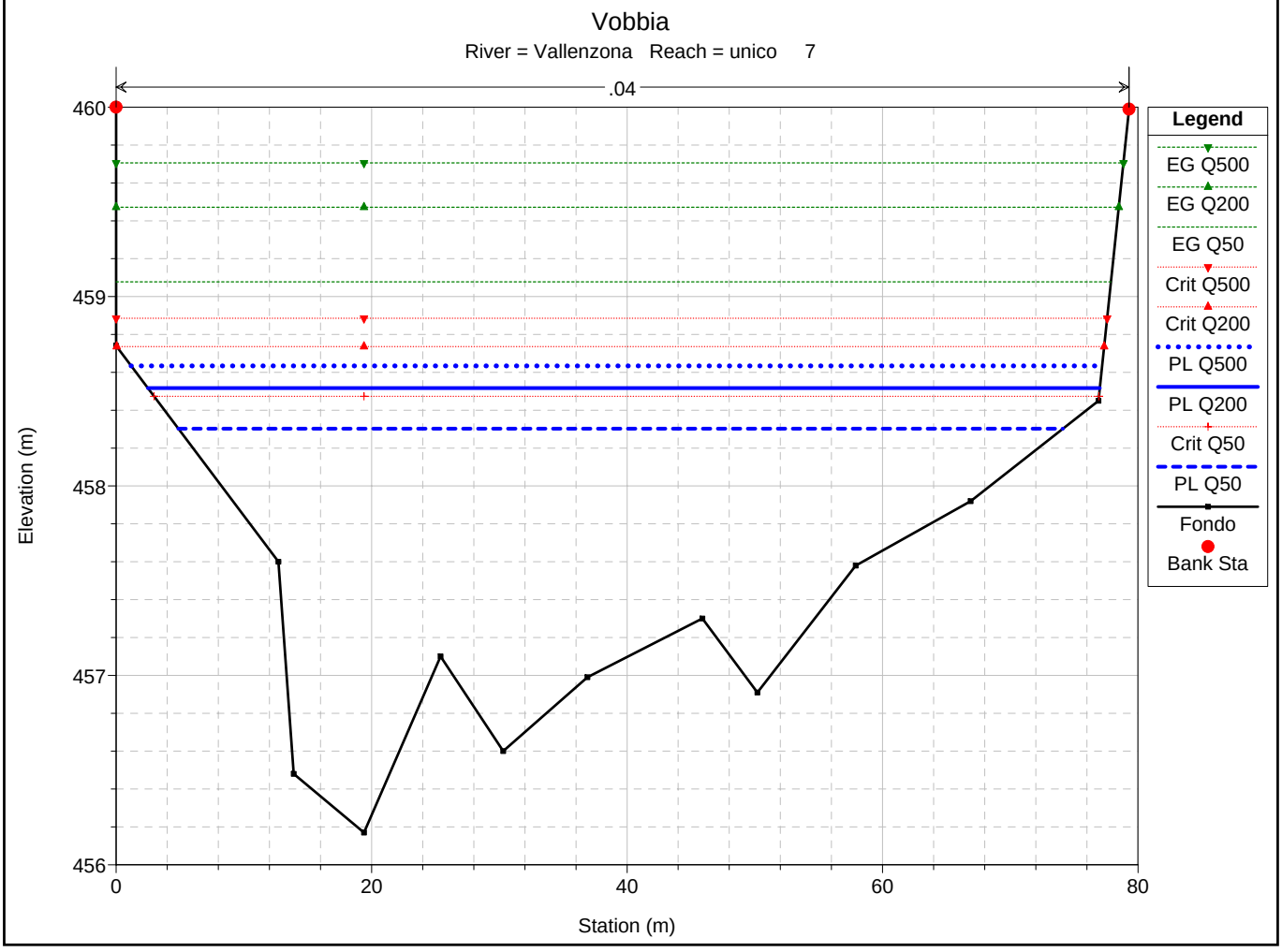

Vobbia
River = Fabio Reach = unico 2
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

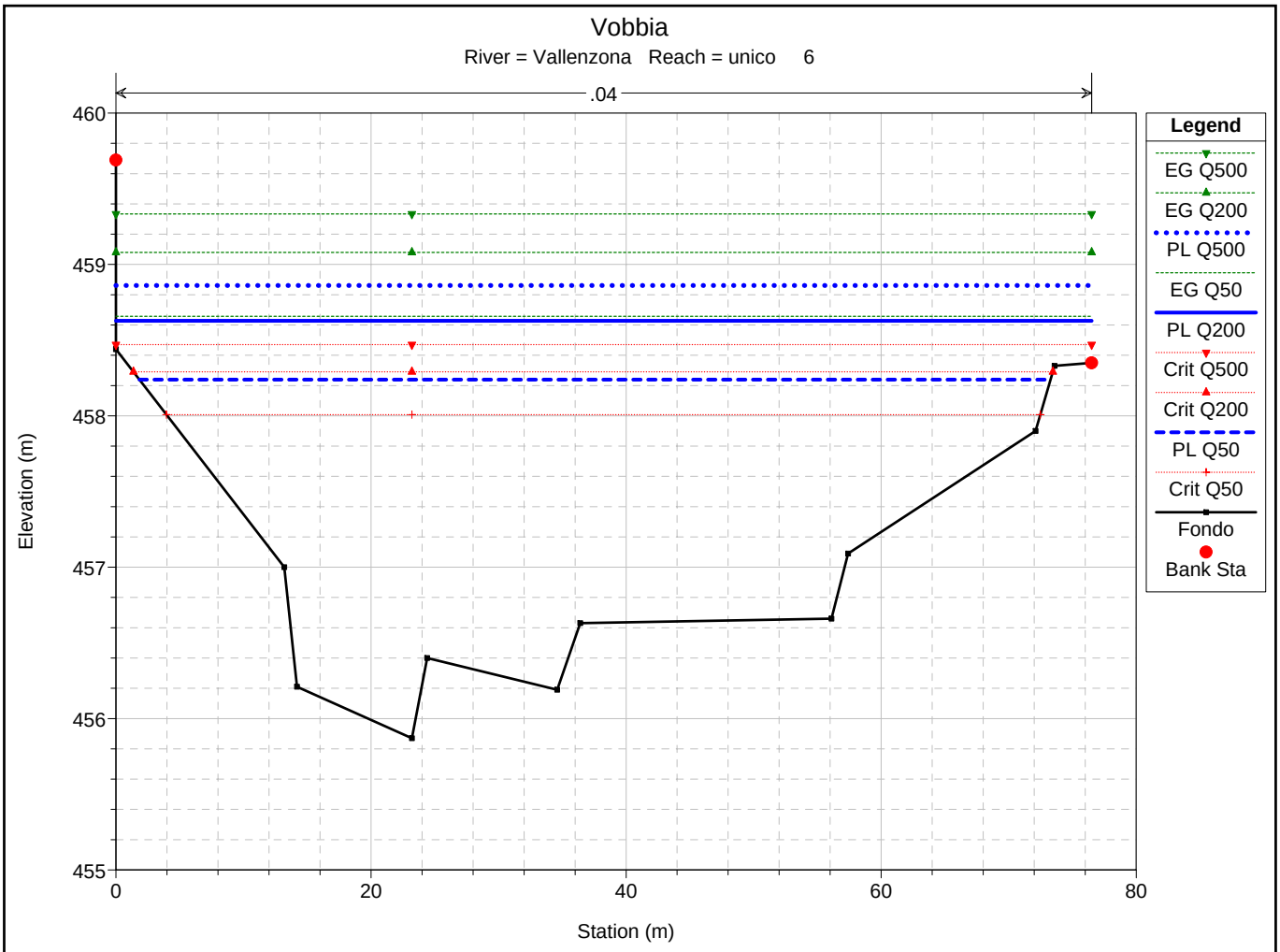

Vobbia
River = Fabio Reach = unico 1.8
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

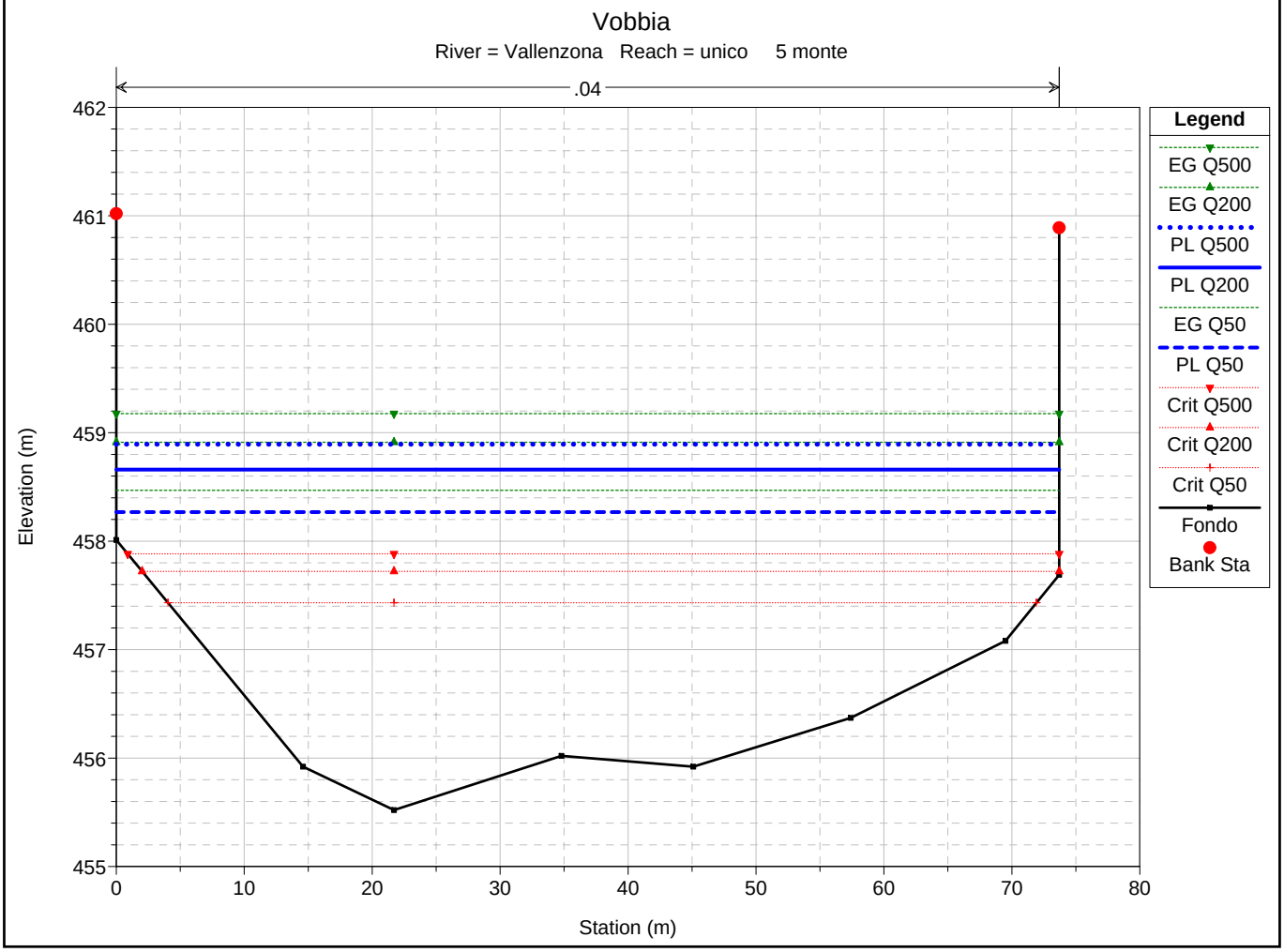

Vobbia
River = Fabio Reach = unico 1.7
.04
Elevation (m)
Station (m)
460
459
458
457
456
455
454
0
5
10
15
20
25
30
35
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

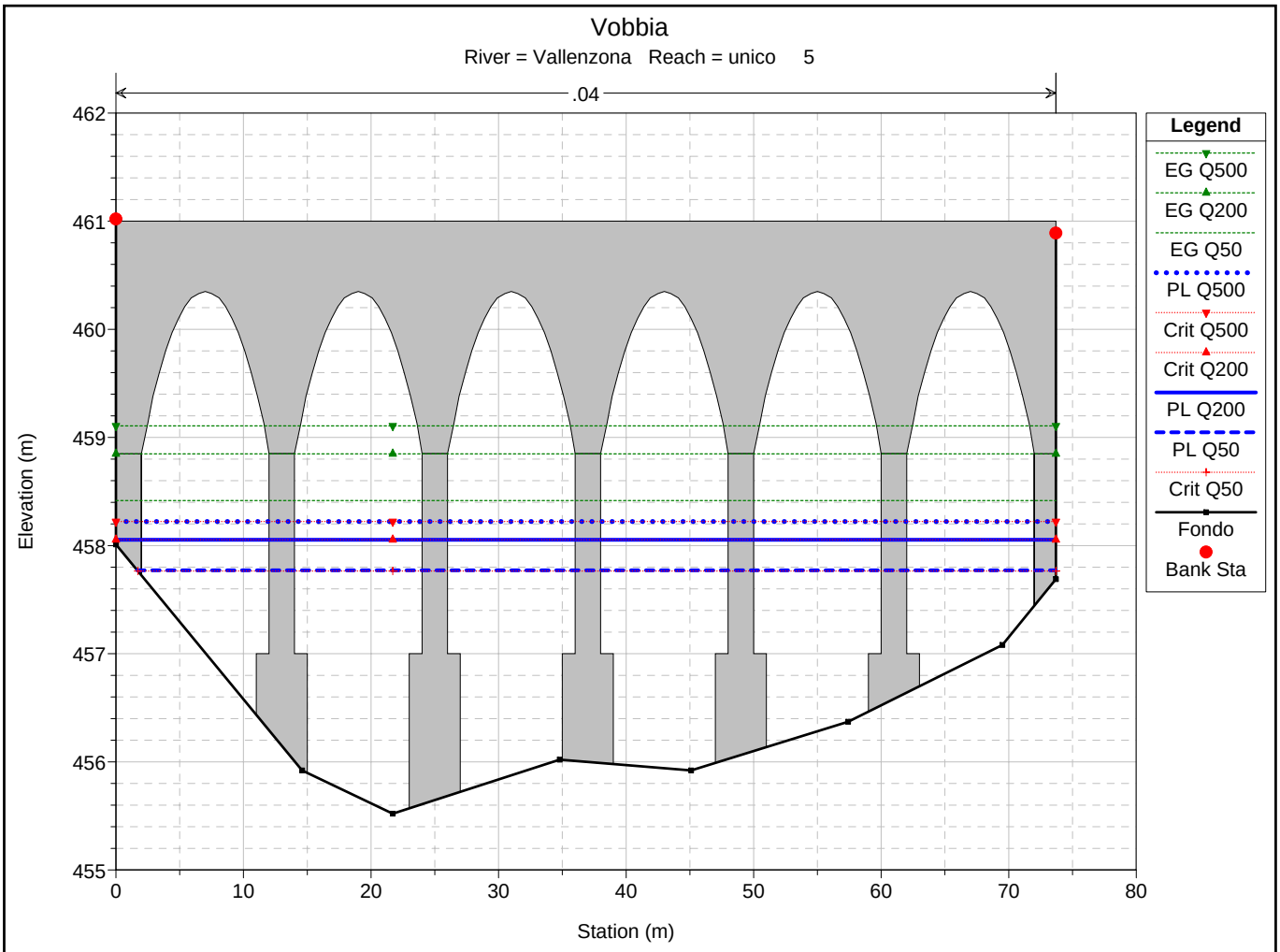

Vobbia
River = Vallenzona Reach = unico 9
.04
Elevation (m)
Station (m)
462.5
462.0
461.5
461.0
460.5
460.0
459.5
459.0
458.5
458.0
0
20
40
60
80
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

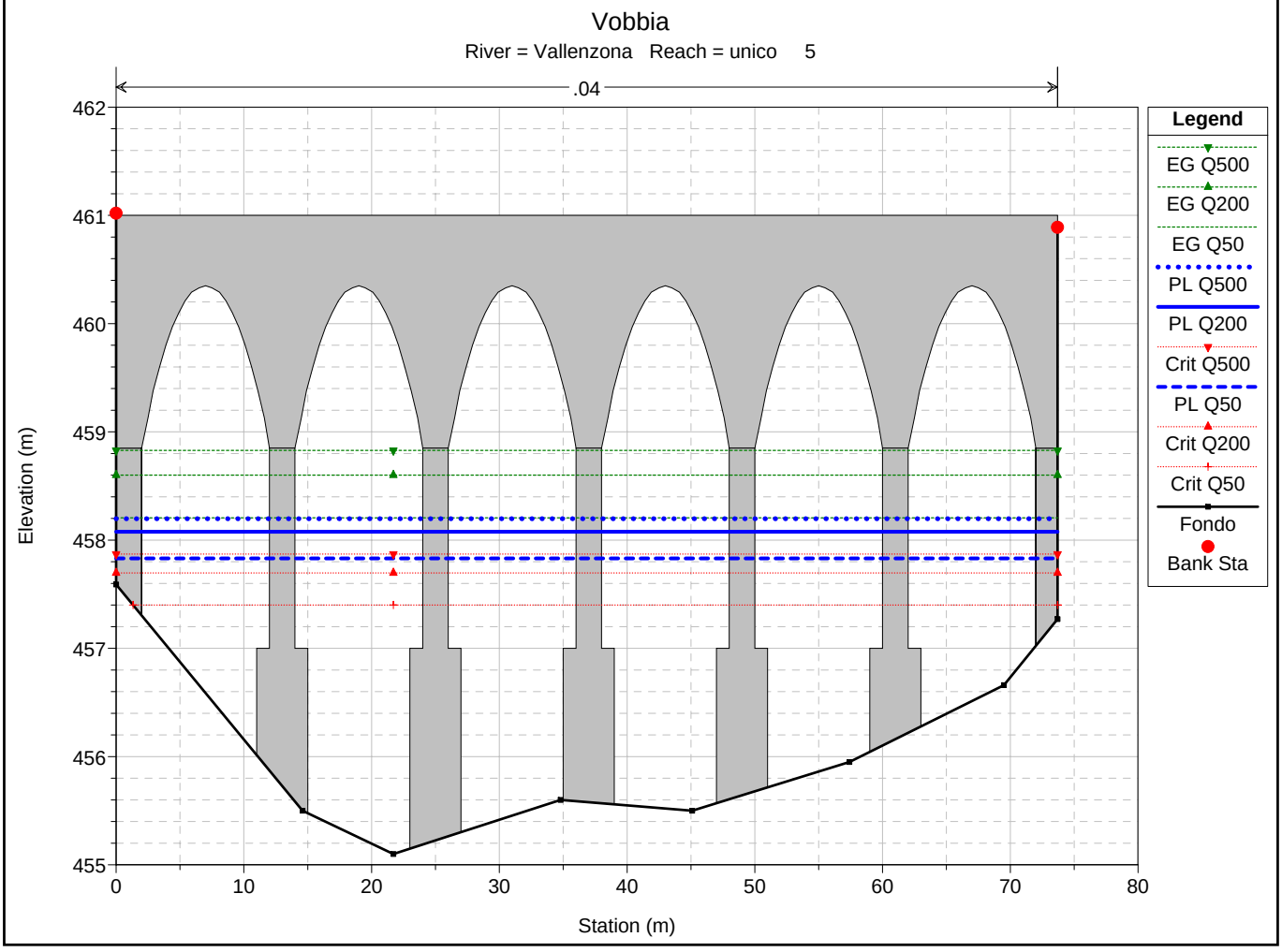

Vobbia
River = Vallenzona Reach = unico 8
.04
461.0
460.5
460.0
459.5
459.0
458.5
458.0
457.5
457.0
Elevation (m)
0
20
40
60
80
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

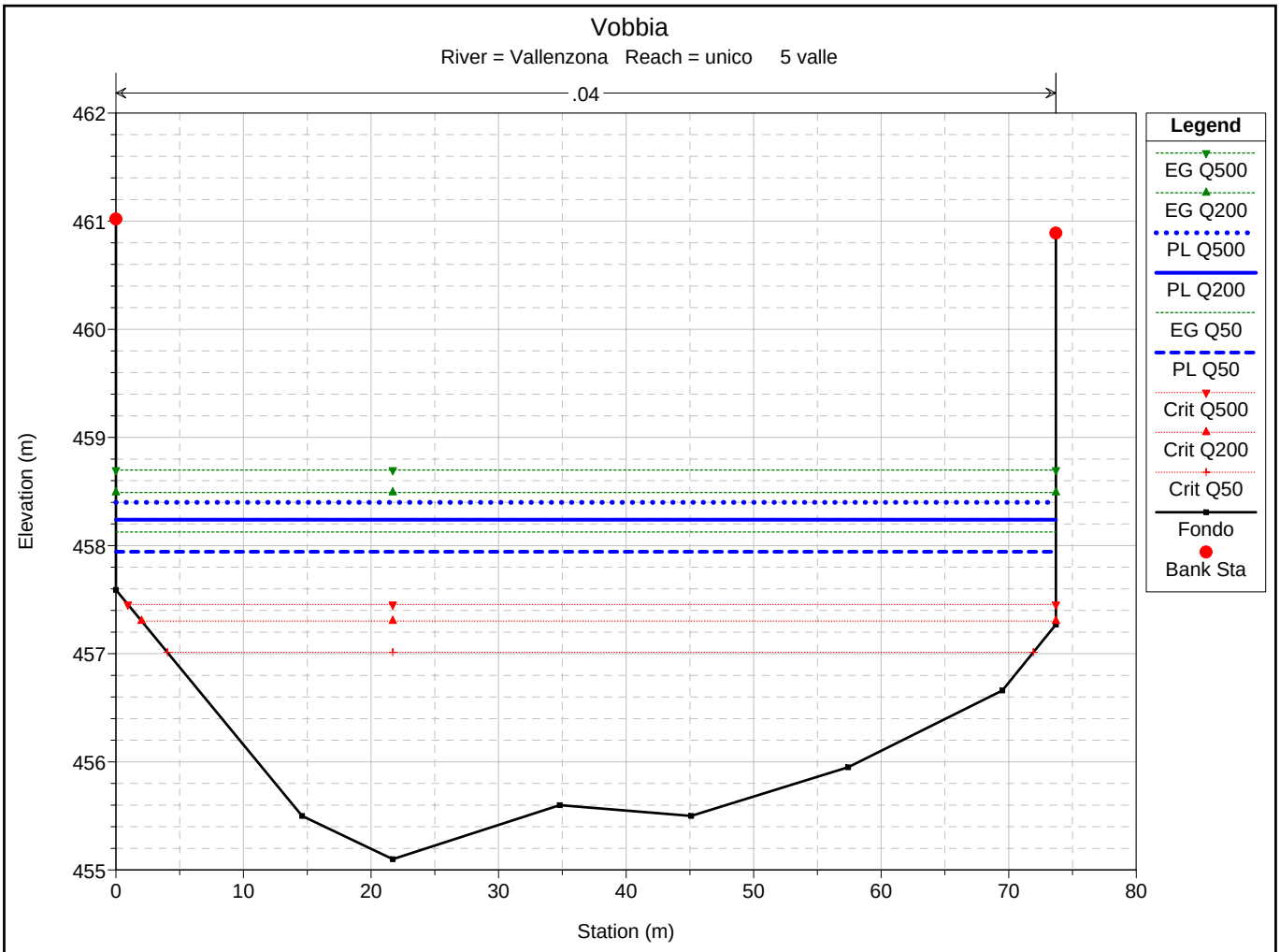

Vobbia
River = Vallenzona Reach = unico 7
.04
460
459
458
457
456
Elevation (m)
0
20
40
60
80
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

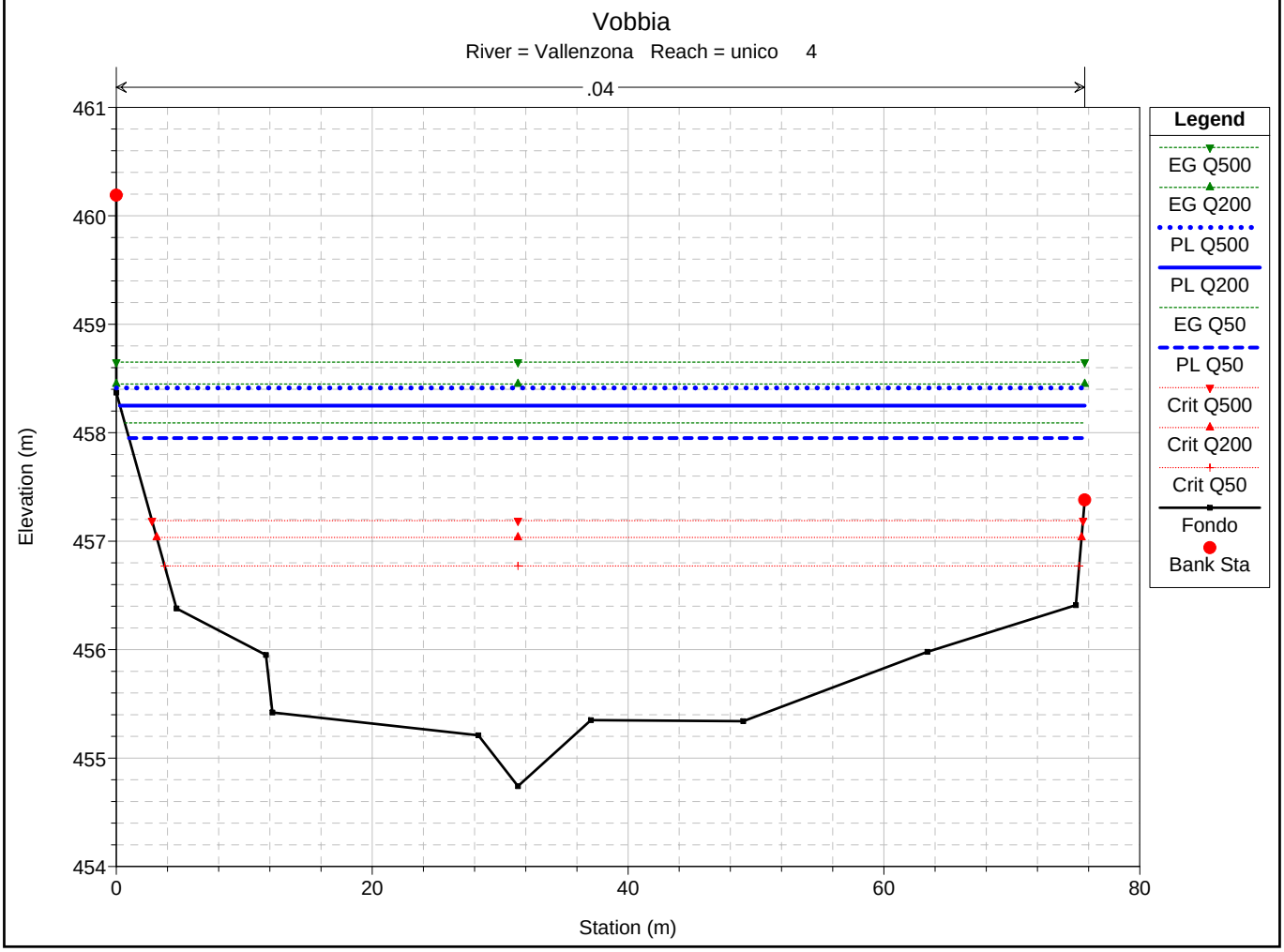

Vobbia
River = Vallenzona Reach = unico 6
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
EG Q50
PL Q200
Crit Q500
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta

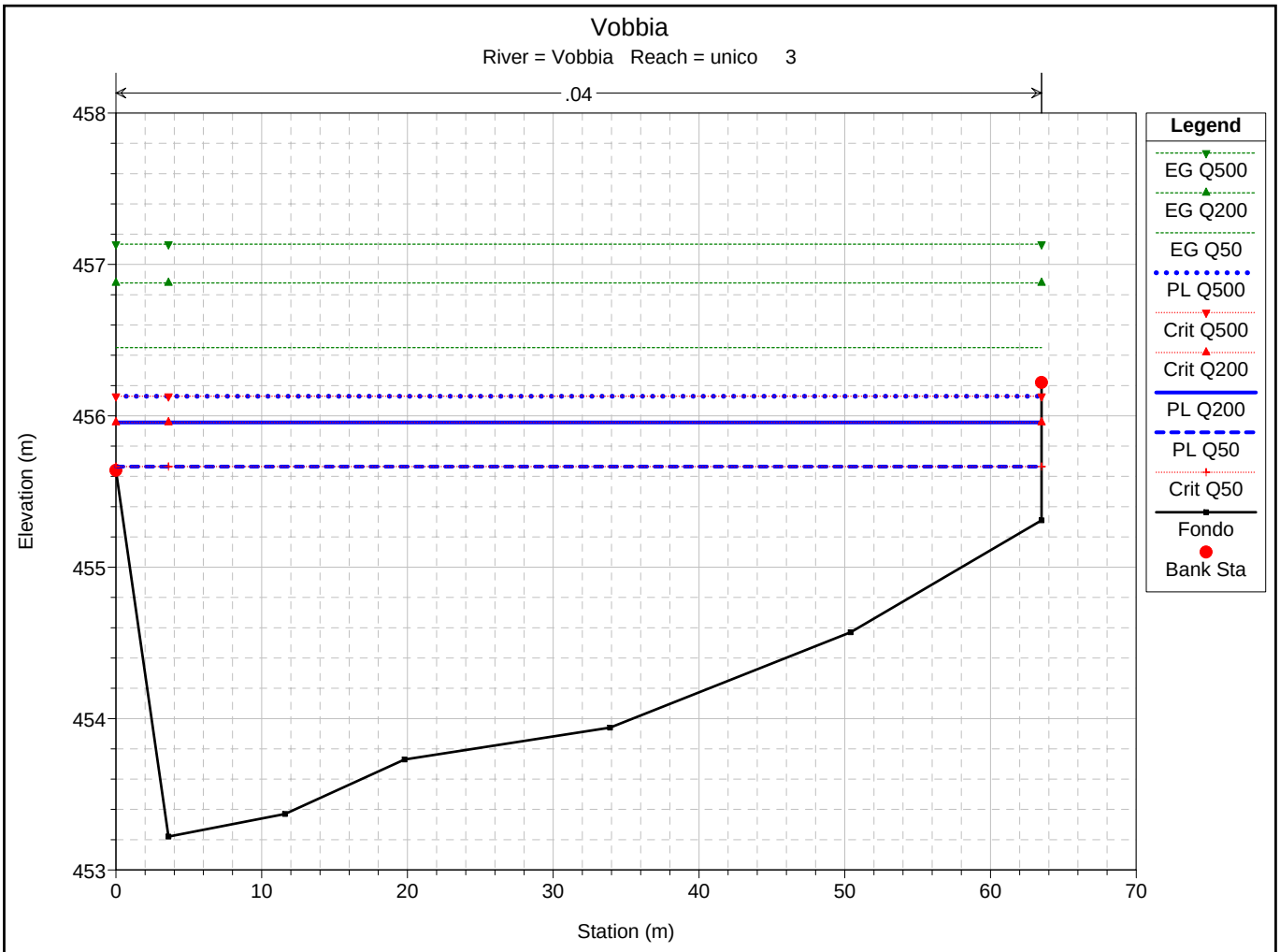

Vobbia
River = Vallenzona Reach = unico 5 monte
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta

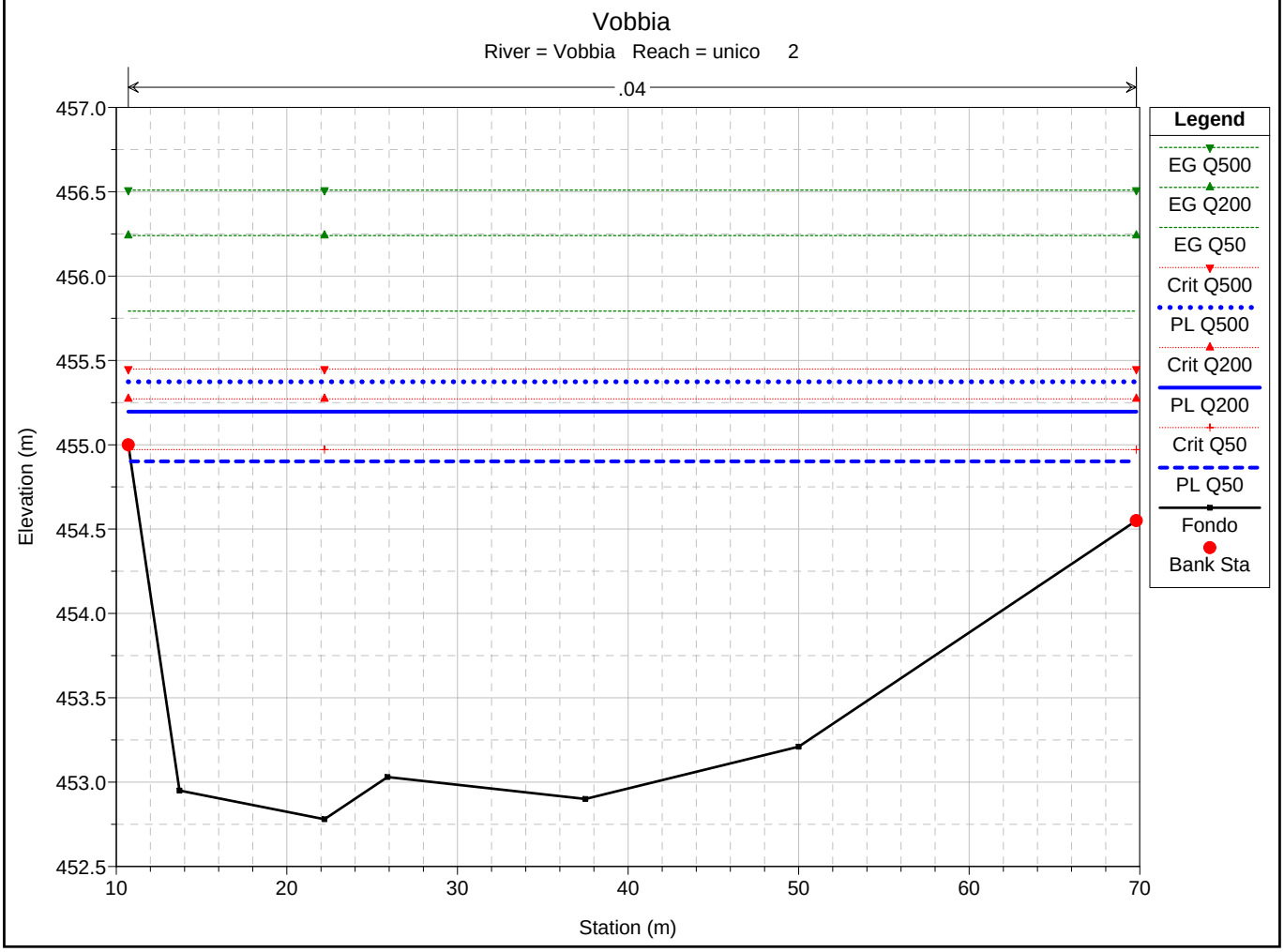

Vobbia
River = Vallenzona Reach = unico 5
.04
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
462
461
460
459
458
457
456
455
0
10
20
30
40
50
60
70
80

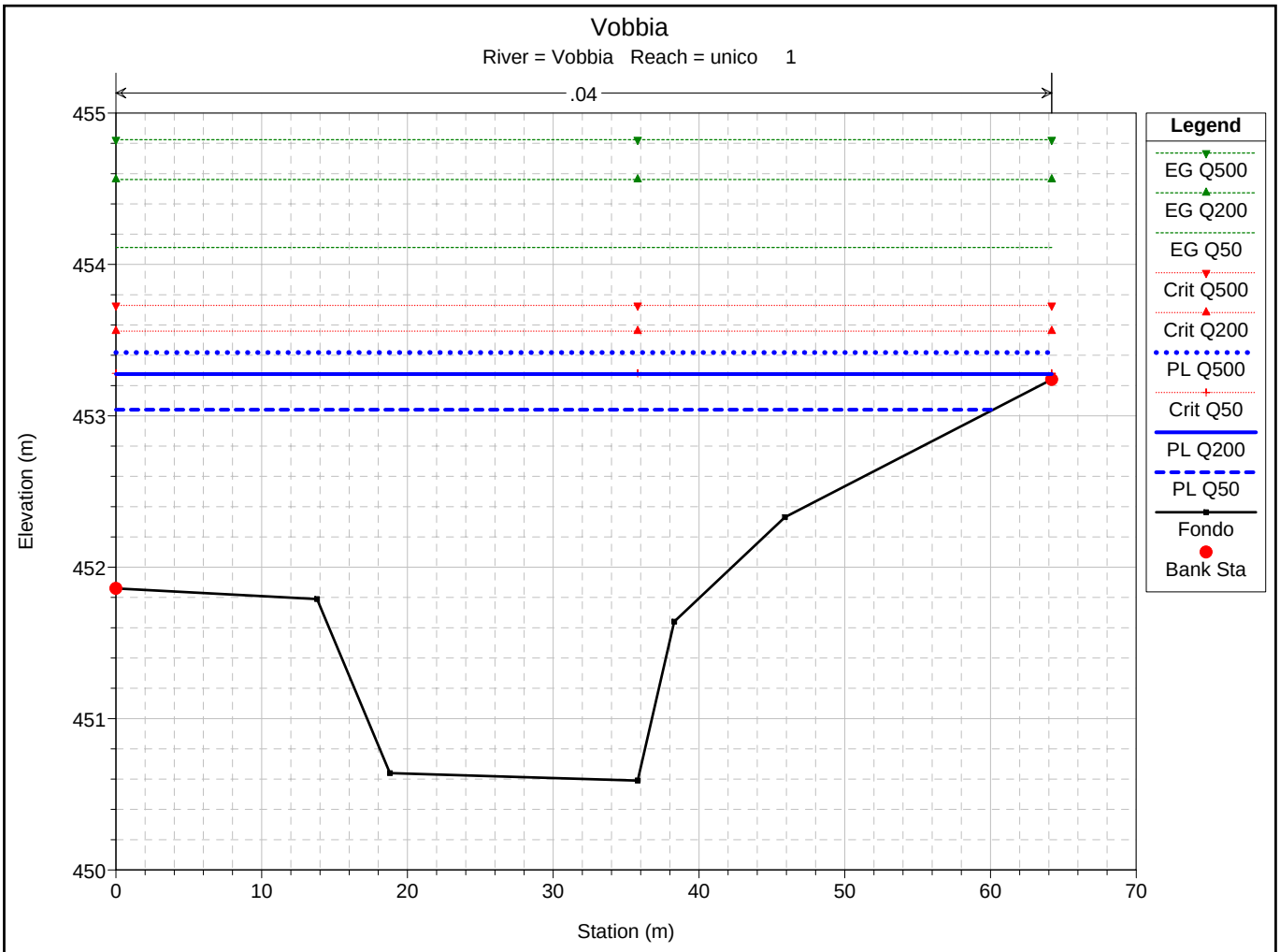

Vobbia
River = Vallenzona Reach = unico 5
.04
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
462
461
460
459
458
457
456
455
0
10
20
30
40
50
60
70
80


Vobbia
River = Vallenzona Reach = unico 5 valle
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
462
461
460
459
458
457
456
455
0
10
20
30
40
50
60
70
80


Vobbia
River = Vallenzona Reach = unico 4
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
461
460
459
458
457
456
455
454
0
20
40
60
80


Vobbia
River = Vobbia Reach = unico 3
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Vobbia
River = Vobbia Reach = unico 2
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
PL Q500
Crit Q200
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta


Vobbia
River = Vobbia Reach = unico 1
.04
Elevation (m)
455
454
453
452
451
450
0
10
20
30
40
50
60
70
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

HEC-RAS Plan: 03_momentum

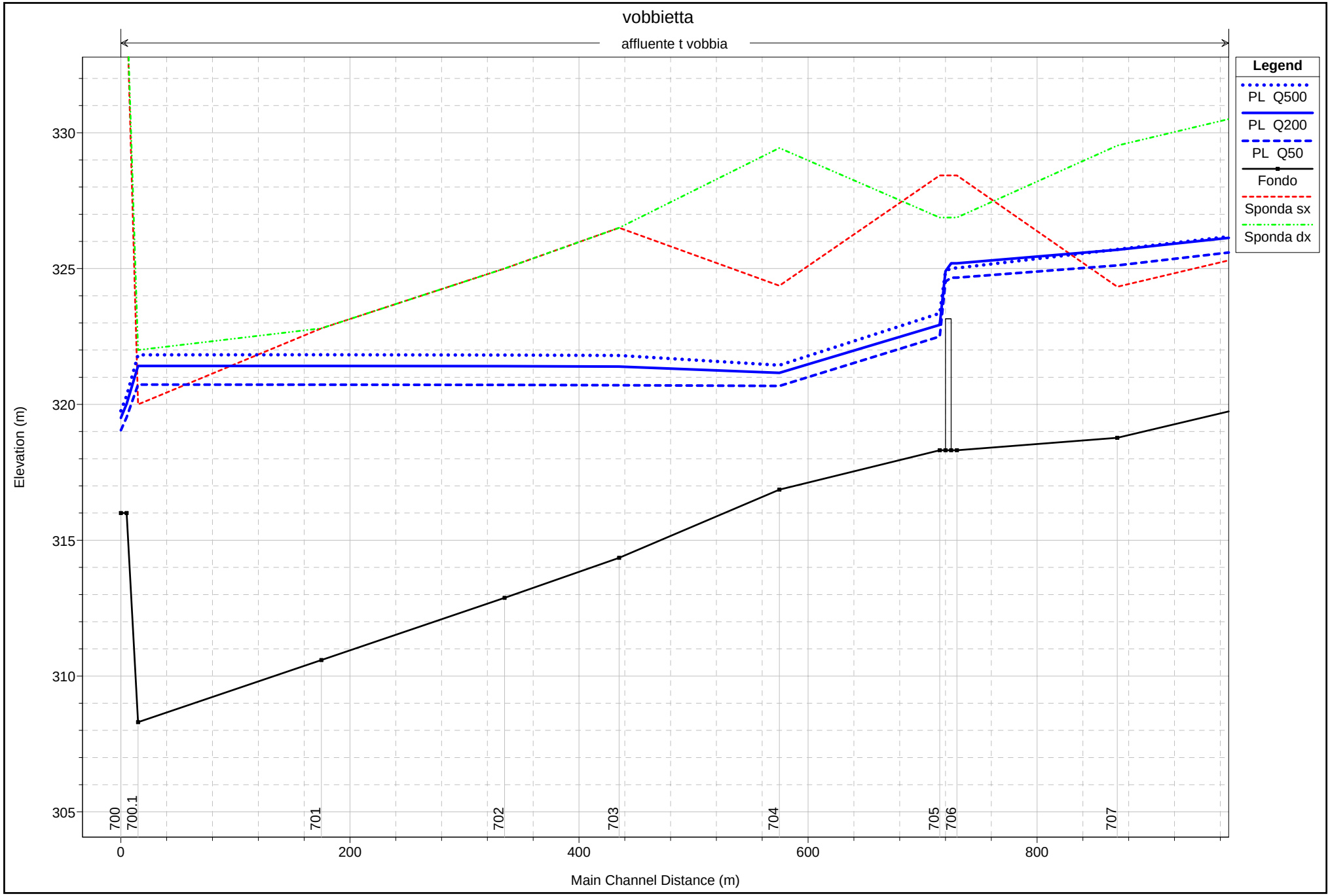
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Vobbia	unico	30 3	Q50	390.00	453.22	455.66	455.64	-0.02	456.22	0.56	455.66	456.45	0.013921	3.93	99.32	63.50	1.00
Vobbia	unico	30 3	Q200	501.00	453.22	455.96	455.64	-0.32	456.22	0.26	455.96	456.88	0.013149	4.25	117.84	63.50	1.00
Vobbia	unico	30 3	Q500	572.00	453.22	456.13	455.64	-0.49	456.22	0.09	456.13	457.13	0.012838	4.44	128.78	63.50	1.00
Vobbia	unico	20 2	Q50	390.00	452.78	454.90	455.00	0.10	454.55	-0.35	454.97	455.79	0.015512	4.18	93.29	58.96	1.06
Vobbia	unico	20 2	Q200	501.00	452.78	455.20	455.00	-0.20	454.55	-0.65	455.27	456.24	0.014691	4.53	110.69	59.10	1.06
Vobbia	unico	20 2	Q500	572.00	452.78	455.37	455.00	-0.37	454.55	-0.82	455.45	456.51	0.014283	4.72	121.15	59.10	1.05
Vobbia	unico	10 1	Q50	390.00	450.59	453.04	451.86	-1.18	453.24	0.20	453.28	454.11	0.021980	4.59	85.02	60.18	1.23
Vobbia	unico	10 1	Q200	501.00	450.59	453.28	451.86	-1.42	453.24	-0.04	453.56	454.56	0.023324	5.02	99.71	64.20	1.29
Vobbia	unico	10 1	Q500	572.00	450.59	453.42	451.86	-1.56	453.24	-0.18	453.73	454.82	0.022812	5.25	108.87	64.20	1.29
Vobbia	unico	0	Q50	390.00	447.79	450.12	449.06	-1.06	450.44	0.32	450.48	451.40	0.027829	5.01	77.88	57.74	1.38
Vobbia	unico	0	Q200	501.00	447.79	450.39	449.06	-1.33	450.44	0.06	450.76	451.83	0.027726	5.33	93.96	63.09	1.39
Vobbia	unico	0	Q500	572.00	447.79	450.52	449.06	-1.46	450.44	-0.08	450.93	452.10	0.027724	5.58	102.56	64.20	1.41
Vallenzona	unico	1000	Q50	282.00	460.85	462.78	464.51	1.73	462.73	-0.05	462.89	463.48	0.020002	3.69	76.52	71.60	1.14
Vallenzona	unico	1000	Q200	380.00	460.85	463.01	464.51	1.50	462.73	-0.28	463.15	463.86	0.020002	4.09	92.92	74.16	1.17
Vallenzona	unico	1000	Q500	443.00	460.85	463.14	464.51	1.37	462.73	-0.41	463.30	464.09	0.020011	4.31	102.75	75.65	1.18
Vallenzona	unico	60 9	Q50	282.00	458.42	460.29	462.08	1.79	460.30	0.01	460.46	461.07	0.024266	3.93	71.79	70.61	1.24
Vallenzona	unico	60 9	Q200	380.00	458.42	460.50	462.08	1.58	460.30	-0.20	460.73	461.47	0.024133	4.35	87.39	73.31	1.27
Vallenzona	unico	60 9	Q500	443.00	458.42	460.63	462.08	1.45	460.30	-0.33	460.87	461.70	0.024209	4.59	96.52	74.70	1.29
Vallenzona	unico	50 8	Q50	282.00	457.35	459.14	460.33	1.19	459.65	0.51	459.34	460.02	0.024409	4.15	68.00	61.73	1.26
Vallenzona	unico	50 8	Q200	380.00	457.35	459.38	460.33	0.95	459.65	0.27	459.63	460.44	0.024421	4.57	83.12	65.20	1.29
Vallenzona	unico	50 8	Q500	443.00	457.35	459.53	460.33	0.80	459.65	0.12	459.81	460.68	0.023888	4.77	92.94	67.36	1.30
Vallenzona	unico	40 7	Q50	282.00	456.17	458.30	460.00	1.70	459.99	1.69	458.47	459.08	0.023287	3.90	72.29	69.25	1.22
Vallenzona	unico	40 7	Q200	380.00	456.17	458.52	460.00	1.48	459.99	1.47	458.74	459.47	0.024428	4.33	87.75	74.52	1.27
Vallenzona	unico	40 7	Q500	443.00	456.17	458.63	460.00	1.37	459.99	1.36	458.89	459.71	0.024752	4.59	96.61	76.01	1.30
Vallenzona	unico	30 6	Q50	282.00	455.87	458.24	459.69	1.45	458.35	0.11	458.01	458.66	0.008679	2.87	98.40	71.44	0.78
Vallenzona	unico	30 6	Q200	380.00	455.87	458.63	459.69	1.06	458.35	-0.28	458.29	459.08	0.007301	2.98	127.68	76.50	0.74
Vallenzona	unico	30 6	Q500	443.00	455.87	458.86	459.69	0.83	458.35	-0.51	458.47	459.33	0.006467	3.04	145.53	76.50	0.70
Vallenzona	unico	22 5 monte	Q50	282.00	455.52	458.27	461.02	2.75	460.89	2.62	457.43	458.47	0.002683	1.99	142.02	73.70	0.46
Vallenzona	unico	22 5 monte	Q200	380.00	455.52	458.66	461.02	2.36	460.89	2.23	457.72	458.91	0.002665	2.22	170.88	73.70	0.47
Vallenzona	unico	22 5 monte	Q500	443.00	455.52	458.89	461.02	2.13	460.89	2.00	457.88	459.18	0.002653	2.36	188.08	73.70	0.47
Vallenzona	unico	20 5		Bridge													
Vallenzona	unico	18 5 valle	Q50	282.00	455.10	457.94	461.02	3.08	460.89	2.95	457.01	458.13	0.002292	1.89	149.03	73.70	0.42
Vallenzona	unico	18 5 valle	Q200	380.00	455.10	458.24	461.02	2.78	460.89	2.65	457.30	458.49	0.002669	2.22	170.81	73.70	0.47
Vallenzona	unico	18 5 valle	Q500	443.00	455.10	458.40	461.02	2.62	460.89	2.49	457.46	458.70	0.002920	2.43	182.61	73.70	0.49
Vallenzona	unico	10 4	Q50	282.00	454.74	457.95	460.19	2.24	457.38	-0.57	456.77	458.09	0.001521	1.66	169.85	74.71	0.35
Vallenzona	unico	10 4	Q200	380.00	454.74	458.25	460.19	1.94	457.38	-0.87	457.03	458.45	0.001859	1.98	192.32	75.42	0.39
Vallenzona	unico	10 4	Q500	443.00	454.74	458.41	460.19	1.78	457.38	-1.03	457.19	458.65	0.002073	2.16	204.63	75.70	0.42
Fabio	unico	35.	Q50	204.00	463.62	465.35	469.59	4.24	470.30	4.95	465.35	466.10	0.014340	3.83	53.32	35.63	1.00
Fabio	unico	35.	Q200	292.00	463.62	465.77	469.59	3.82	470.30	4.53	465.77	466.69	0.013519	4.25	68.75	37.24	1.00
Fabio	unico	35.	Q500	350.00	463.62	466.01	469.59	3.58	470.30	4.29	466.01	467.05	0.013186	4.50	77.71	37.57	1.00
Fabio	unico	34.6 6 monte	Q50	204.00	461.02	463.41	464.72	1.31	464.26	0.85	462.75	463.76	0.004498	2.63	77.61	37.57	0.58
Fabio	unico	34.6 6 monte	Q200	292.00	461.02	463.96	464.72	0.76	464.26	0.30	463.17	464.41	0.004487	2.96	98.69	39.46	0.60
Fabio	unico	34.6 6 monte	Q500	350.00	461.02	464.29	464.72	0.43	464.26	-0.03	463.42	464.79	0.004597	3.13	111.97	41.98	0.61

HEC-RAS Plan: 03_momentum (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Fabio	unico	34.5 6		Bridge													
Fabio	unico	34. 6 valle	Q50	204.00	461.02	462.43	464.72	2.29	462.29	-0.14	462.77	463.65	0.030178	4.90	41.61	34.12	1.42
Fabio	unico	34. 6 valle	Q200	292.00	461.02	462.79	464.72	1.94	462.29	-0.50	463.19	464.28	0.027439	5.41	54.01	35.65	1.40
Fabio	unico	34. 6 valle	Q500	350.00	461.02	462.99	464.72	1.73	462.29	-0.70	463.43	464.65	0.026415	5.70	61.51	36.54	1.40
Fabio	unico	33. 5	Q50	204.00	459.64	461.96	464.01	2.05	461.57	-0.39	461.96	462.75	0.013877	3.94	51.79	45.39	1.00
Fabio	unico	33. 5	Q200	292.00	459.64	462.42	464.01	1.59	461.57	-0.85	462.42	463.37	0.013130	4.31	67.69	61.16	1.00
Fabio	unico	33. 5	Q500	350.00	459.64	462.68	464.01	1.33	461.57	-1.11	462.68	463.74	0.012595	4.54	77.01	62.38	1.00
Fabio	unico	32. 4	Q50	204.00	459.09	460.71	462.80	2.09	463.17	2.46	461.01	461.78	0.028755	4.59	44.42	38.63	1.37
Fabio	unico	32. 4	Q200	292.00	459.09	461.00	462.80	1.80	463.17	2.17	461.39	462.36	0.030501	5.16	56.55	43.05	1.44
Fabio	unico	32. 4	Q500	350.00	459.09	461.16	462.80	1.64	463.17	2.01	461.61	462.70	0.031870	5.49	63.75	45.75	1.48
Fabio	unico	31. 3	Q50	204.00	458.03	459.60	463.40	3.80	461.32	1.72	459.99	460.95	0.030645	5.15	39.64	29.93	1.43
Fabio	unico	31. 3	Q200	292.00	458.03	460.04	463.40	3.36	461.32	1.28	460.47	461.57	0.026969	5.48	53.26	32.97	1.38
Fabio	unico	31. 3	Q500	350.00	458.03	460.29	463.40	3.11	461.32	1.03	460.73	461.92	0.025430	5.66	61.88	34.85	1.36
Fabio	unico	30.9 2.9	Q50	204.00	457.69	459.52	464.08	4.56	459.94	0.42	459.54	460.29	0.014946	3.89	52.43	35.03	1.02
Fabio	unico	30.9 2.9	Q200	292.00	457.69	460.48	464.08	3.60	459.94	-0.54	459.96	461.06	0.006289	3.36	86.90	36.79	0.70
Fabio	unico	30.9 2.9	Q500	350.00	457.69	460.52	464.08	3.56	459.94	-0.58	460.21	461.32	0.008642	3.97	88.16	36.85	0.82
Fabio	unico	30.7 2.5 monte	Q50	204.00	456.80	459.44	459.76	0.32	459.29	-0.15	458.94	459.86	0.006057	2.89	70.60	35.77	0.66
Fabio	unico	30.7 2.5 monte	Q200	292.00	456.80	460.48	459.76	-0.72	459.29	-1.19	459.36	460.85	0.003232	2.71	107.93	35.80	0.50
Fabio	unico	30.7 2.5 monte	Q500	350.00	456.80	460.51	459.76	-0.75	459.29	-1.22	459.60	461.04	0.004482	3.21	109.15	35.80	0.59
Fabio	unico	30.6 2.5 monte	Q50	204.00	456.80	459.43	459.76	0.33	459.29	-0.14	458.94	459.86	0.006156	2.90	70.24	35.77	0.66
Fabio	unico	30.6 2.5 monte	Q200	292.00	456.80	460.48	459.76	-0.72	459.29	-1.19	459.36	460.85	0.003245	2.71	107.79	35.80	0.50
Fabio	unico	30.6 2.5 monte	Q500	350.00	456.80	460.51	459.76	-0.75	459.29	-1.22	459.60	461.03	0.004520	3.22	108.86	35.80	0.59
Fabio	unico	30.5 2.5		Bridge													
Fabio	unico	30.4 2.5 valle	Q50	204.00	456.80	459.23	459.76	0.53	459.29	0.06	458.94	459.76	0.008514	3.23	63.21	35.33	0.77
Fabio	unico	30.4 2.5 valle	Q200	292.00	456.80	459.68	459.76	0.08	459.29	-0.39	459.36	460.37	0.008562	3.68	79.31	35.79	0.79
Fabio	unico	30.4 2.5 valle	Q500	350.00	456.80	459.95	459.76	-0.19	459.29	-0.66	459.60	460.74	0.008569	3.94	88.87	35.80	0.80
Fabio	unico	30.3 2.5 valle	Q50	204.00	456.80	458.94	459.76	0.82	459.29	0.35	458.94	459.69	0.015017	3.85	52.98	35.19	1.00
Fabio	unico	30.3 2.5 valle	Q200	292.00	456.80	459.36	459.76	0.40	459.29	-0.07	459.36	460.30	0.014106	4.30	67.83	35.76	1.00
Fabio	unico	30.3 2.5 valle	Q500	350.00	456.80	459.60	459.76	0.16	459.29	-0.31	459.60	460.67	0.013860	4.58	76.39	35.78	1.00
Fabio	unico	30. 2	Q50	204.00	456.46	458.24	458.79	0.55	459.16	0.92	458.46	459.29	0.023293	4.53	45.00	33.35	1.25
Fabio	unico	30. 2	Q200	292.00	456.46	458.63	458.79	0.16	459.16	0.53	458.89	459.92	0.021070	5.03	58.04	33.49	1.22
Fabio	unico	30. 2	Q500	350.00	456.46	458.88	458.79	-0.09	459.16	0.28	459.13	460.30	0.019885	5.29	66.20	33.56	1.20
Fabio	unico	20 1.8	Q50	204.00	454.90	457.99	457.24	-0.75	458.23	0.24	457.19	458.36	0.003950	2.68	76.24	31.48	0.55
Fabio	unico	20 1.8	Q200	292.00	454.90	458.31	457.24	-1.07	458.23	-0.08	457.64	458.89	0.005513	3.39	86.18	31.50	0.65
Fabio	unico	20 1.8	Q500	350.00	454.90	458.49	457.24	-1.25	458.23	-0.26	457.90	459.23	0.006481	3.81	91.90	31.50	0.71
Fabio	unico	10 1.7	Q50	204.00	454.64	457.95	456.89	-1.06	458.86	0.91	457.09	458.28	0.003462	2.54	80.23	33.00	0.52
Fabio	unico	10 1.7	Q200	292.00	454.64	458.25	456.89	-1.36	458.86	0.61	457.52	458.78	0.004927	3.24	90.10	33.00	0.63
Fabio	unico	10 1.7	Q500	350.00	454.64	458.41	456.89	-1.52	458.86	0.45	457.78	459.10	0.005906	3.67	95.48	33.00	0.69

Torrente Vobbia (loc. Vobbietta)

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati


vobbietta
affluente t vobbia
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
330
325
320
315
310
305
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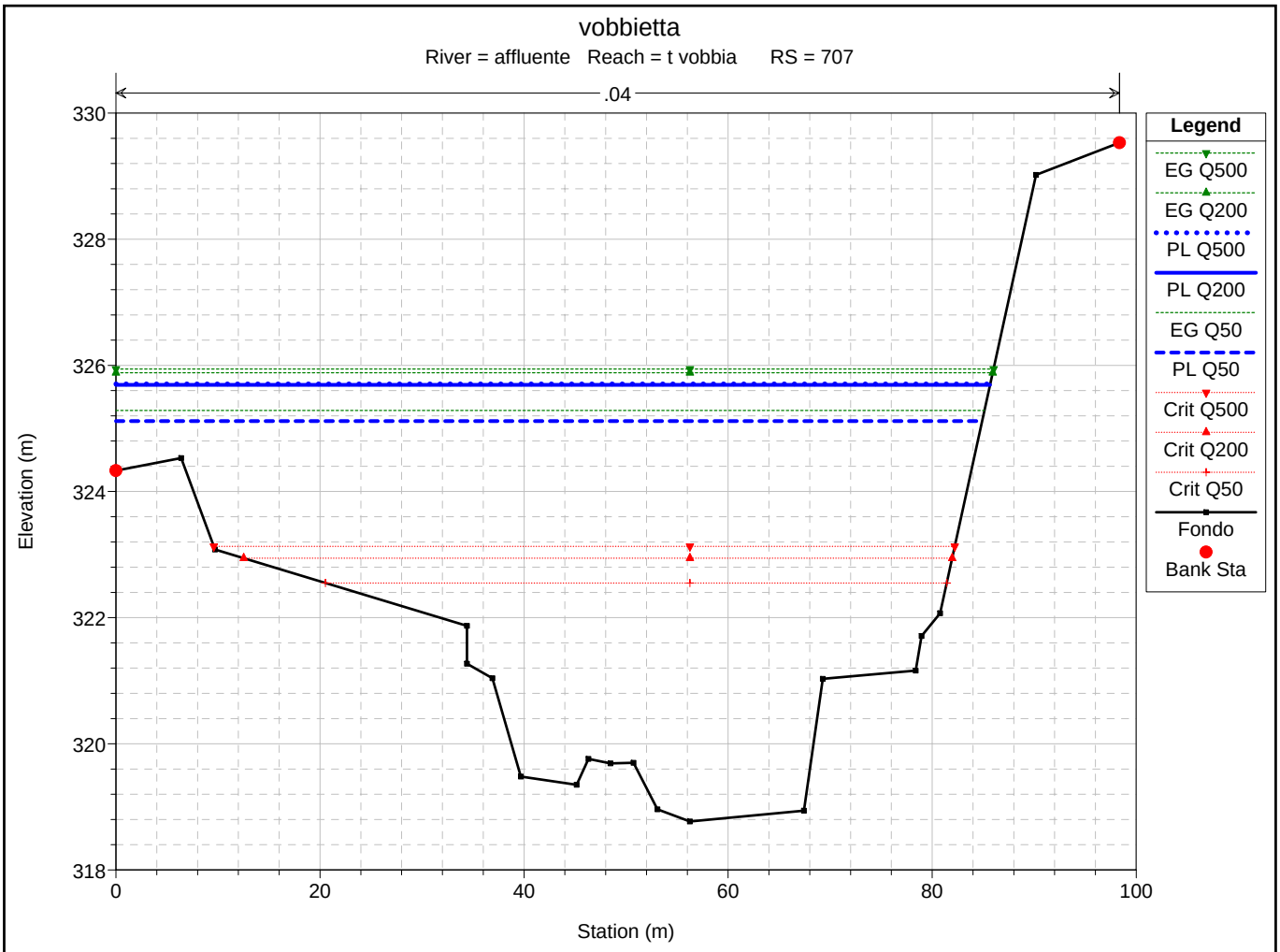
700.1
701
702
703
704
705
706
707
0
200
400
600
800
Main Channel Distance (m)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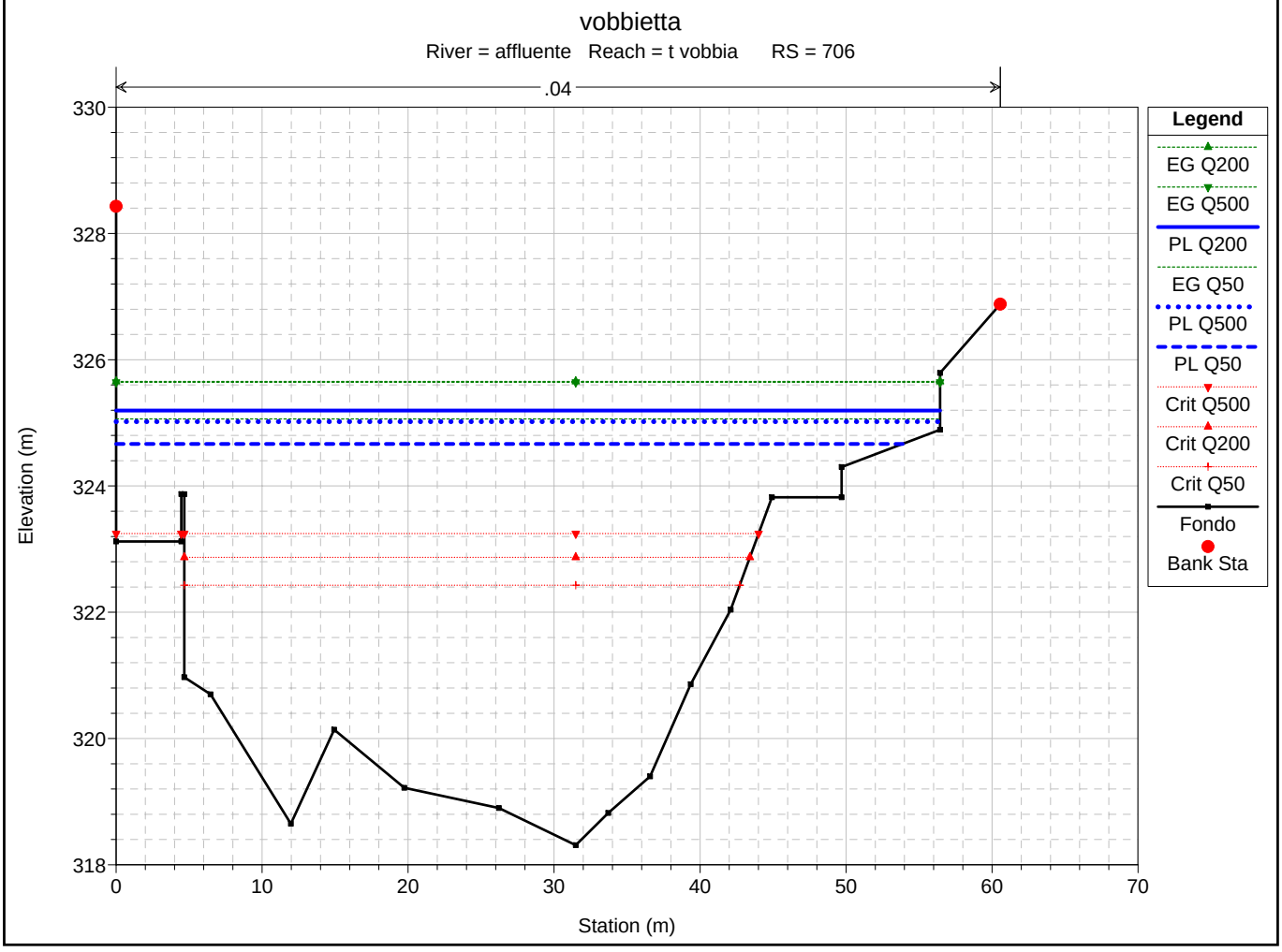
River = affluente Reach = t vobbia RS = 707
.04
Elevation (m)
330
328
326
324
322
320
318
0
20
40
60
80
100
Station (m)
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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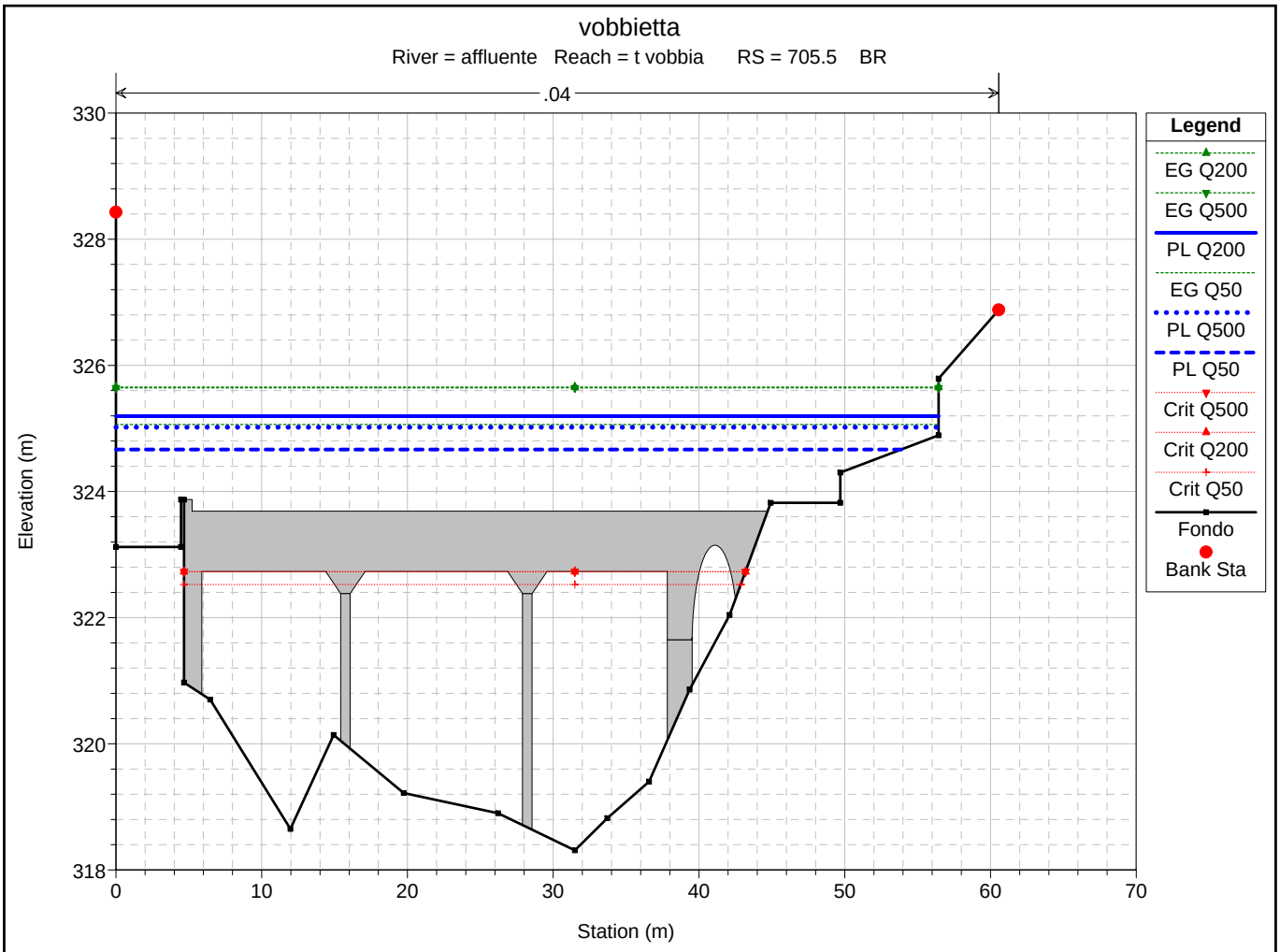
.04
Elevation (m)
330
328
326
324
322
320
318
0
10
20
30
40
50
60
70
Station (m)
Legend
EG Q200
EG Q500
PL Q200
EG Q50
PL Q500
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
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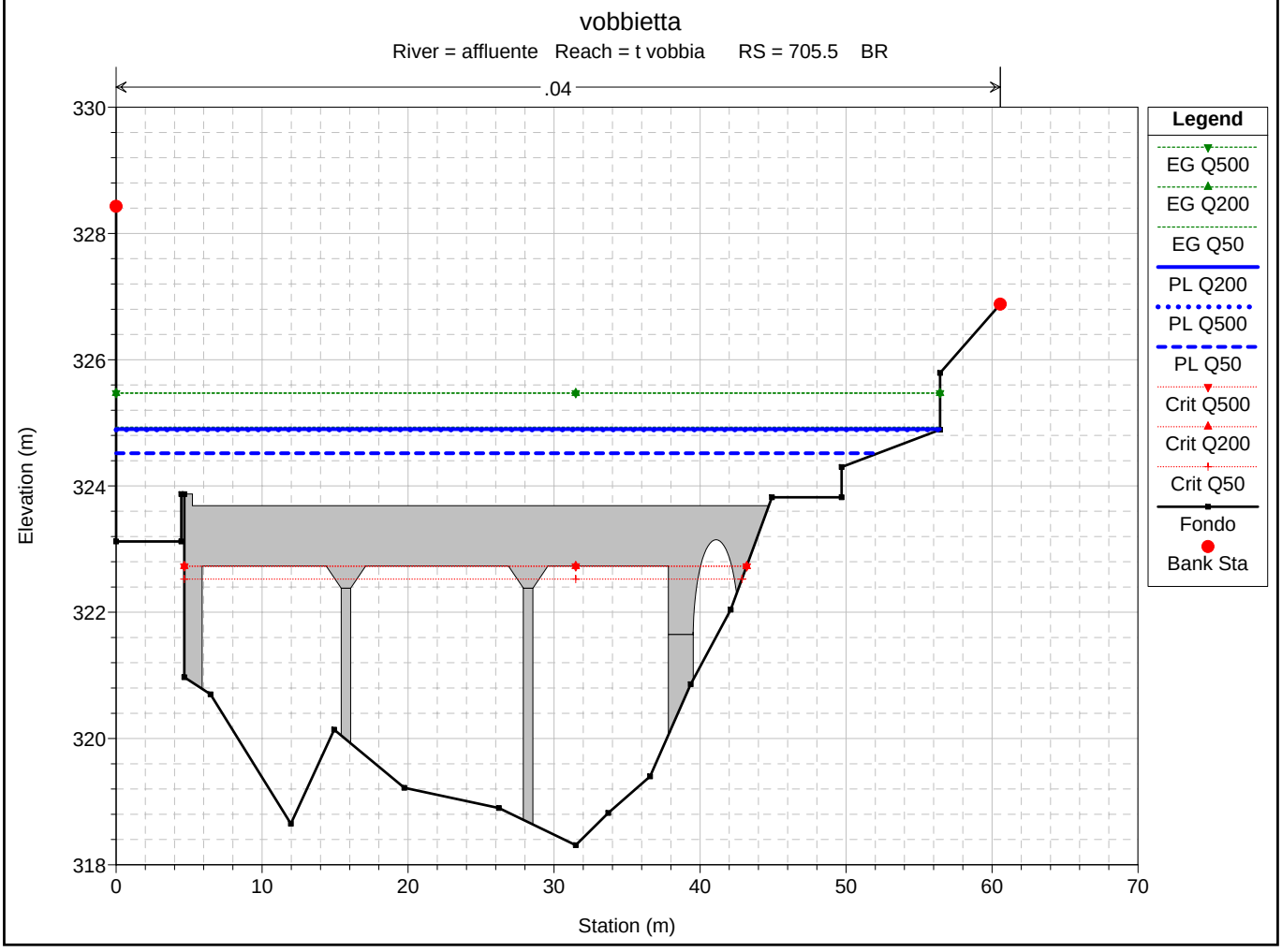
328
326
324
322
320
318
0
10
20
30
40
50
60
70
Legend
EG Q200
EG Q500
PL Q200
EG Q50
PL Q500
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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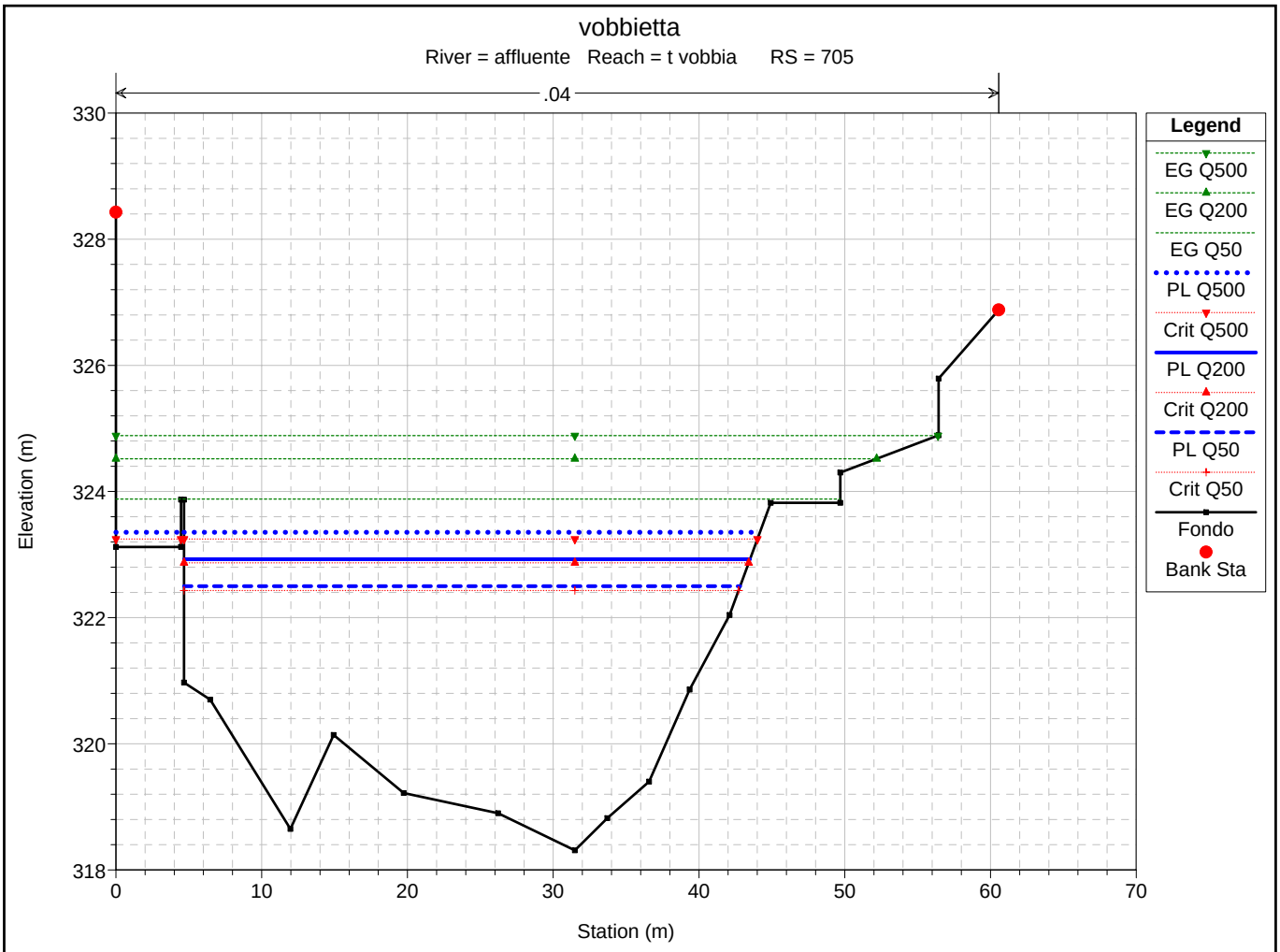
Station (m)
330
328
326
324
322
320
318
0
10
20
30
40
50
60
70
Legend
EG Q500
EG Q200
EG Q50
PL Q200
PL Q500
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta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Elevation (m)
Station (m)
330
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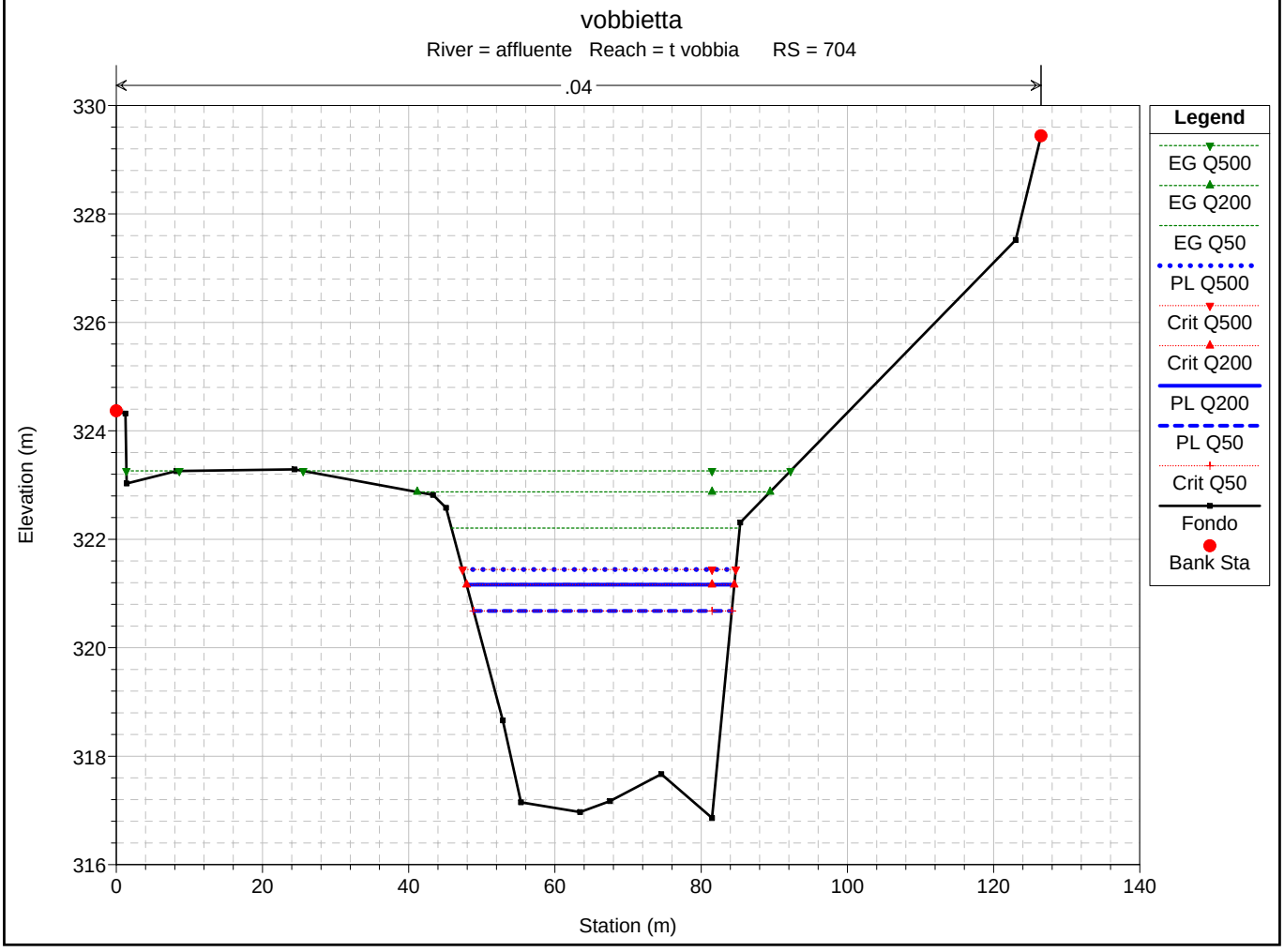
326
324
322
320
318
0
10
20
30
40
50
60
70
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
PL Q200
Crit Q200
PL Q50
Crit Q50
Fondo
Bank Sta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.04
Elevation (m)
Station (m)
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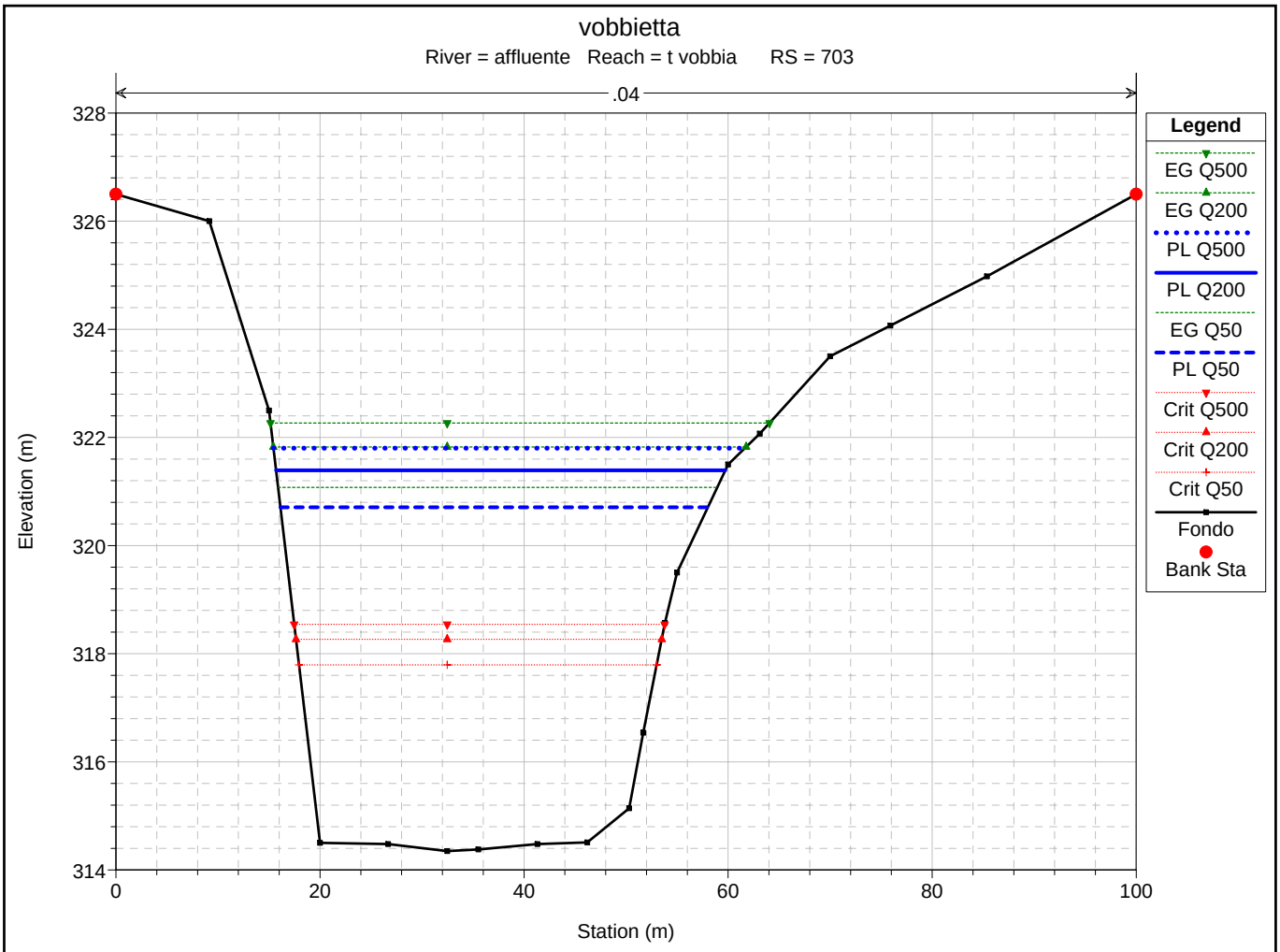
328
326
324
322
320
318
316
0
20
40
60
80
100
120
140
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta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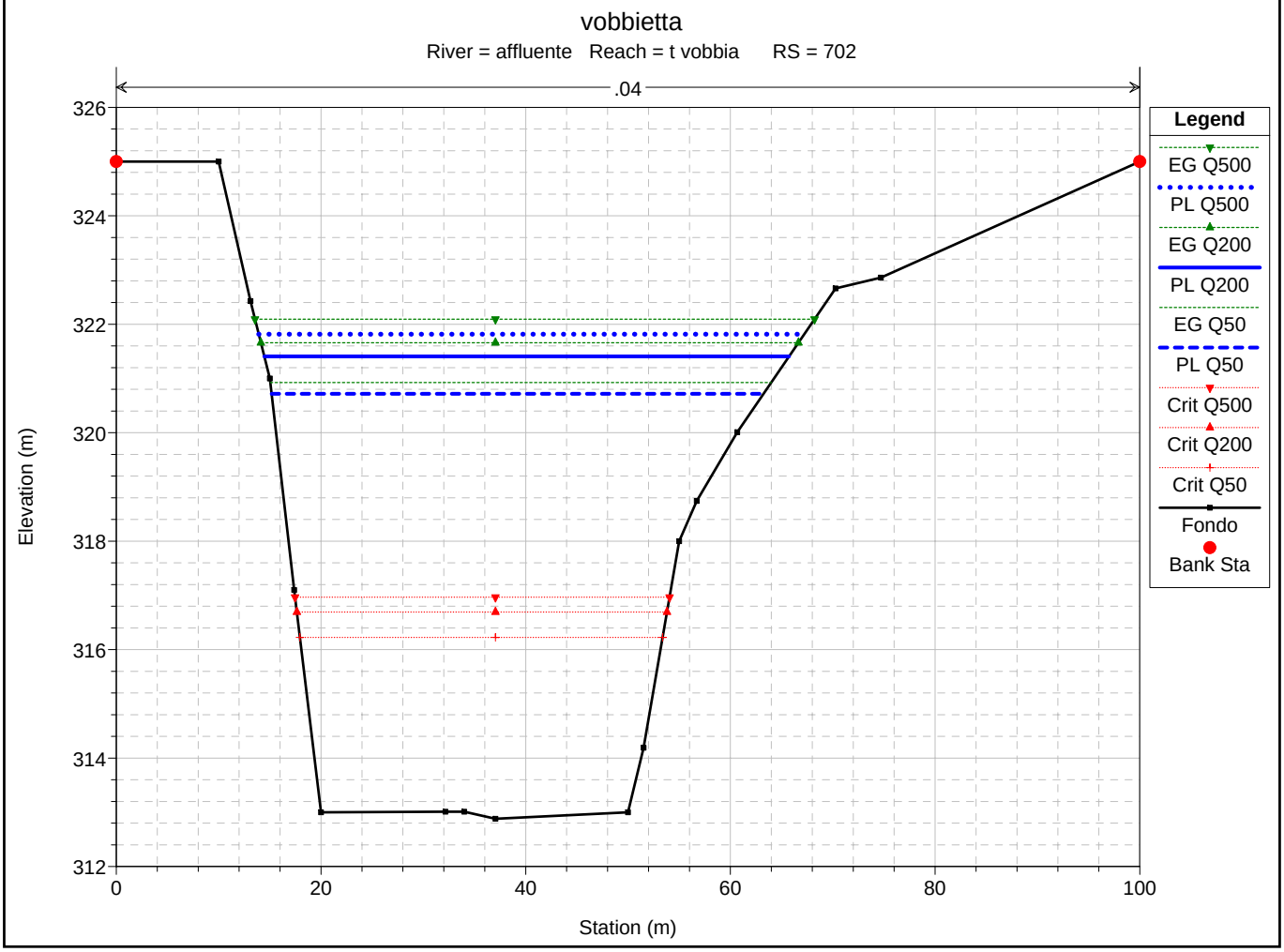
.04
Legend
EG Q500
EG Q200
PL Q500
PL Q200
EG Q50
PL Q50
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
328
326
324
322
320
318
316
314
0
20
40
60
80
100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Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
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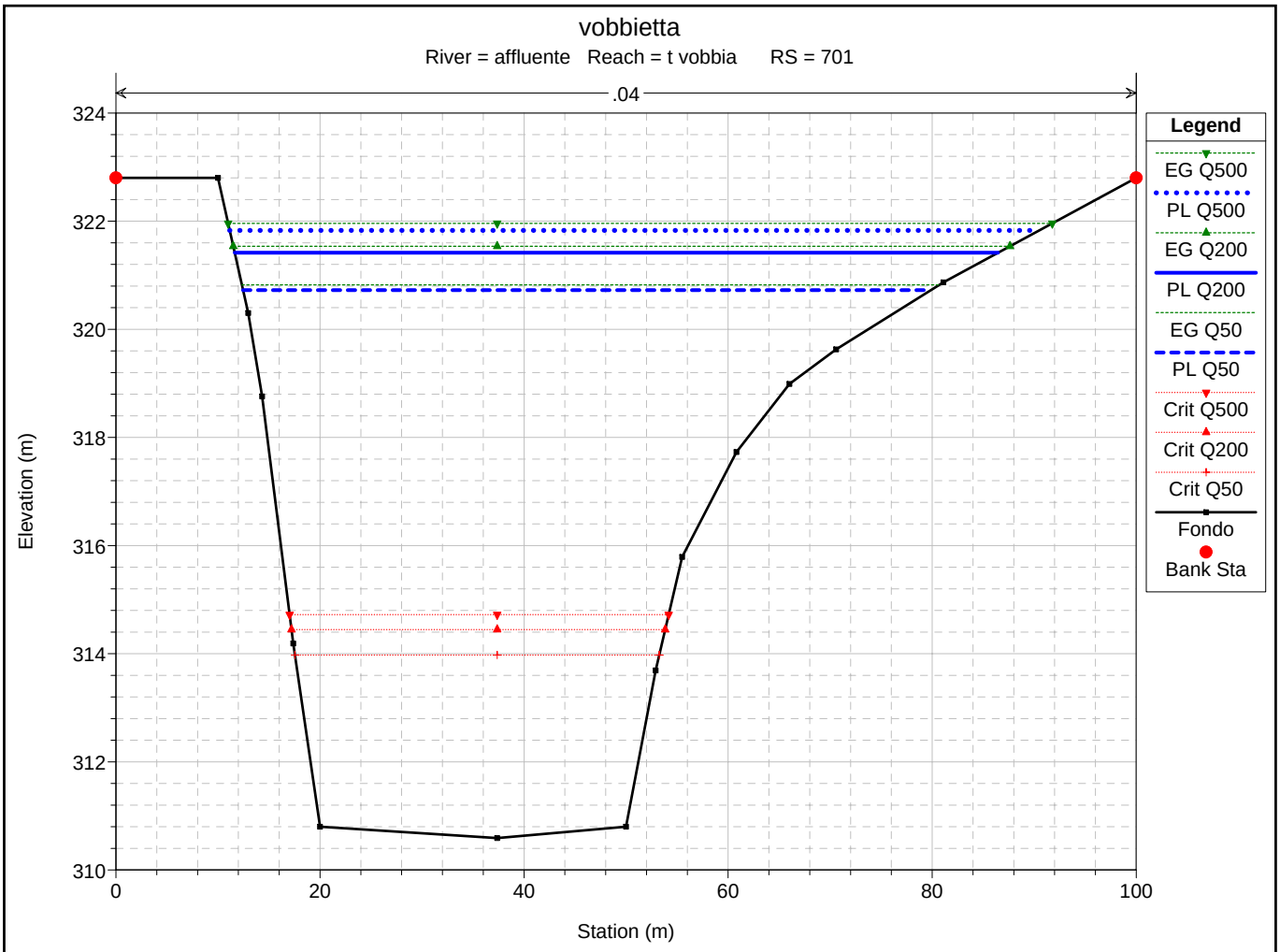
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
326
324
322
320
318
316
314
312
0
20
40
60
80
100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Legend
EG Q500
PL Q500
EG Q200
PL Q200
EG Q50
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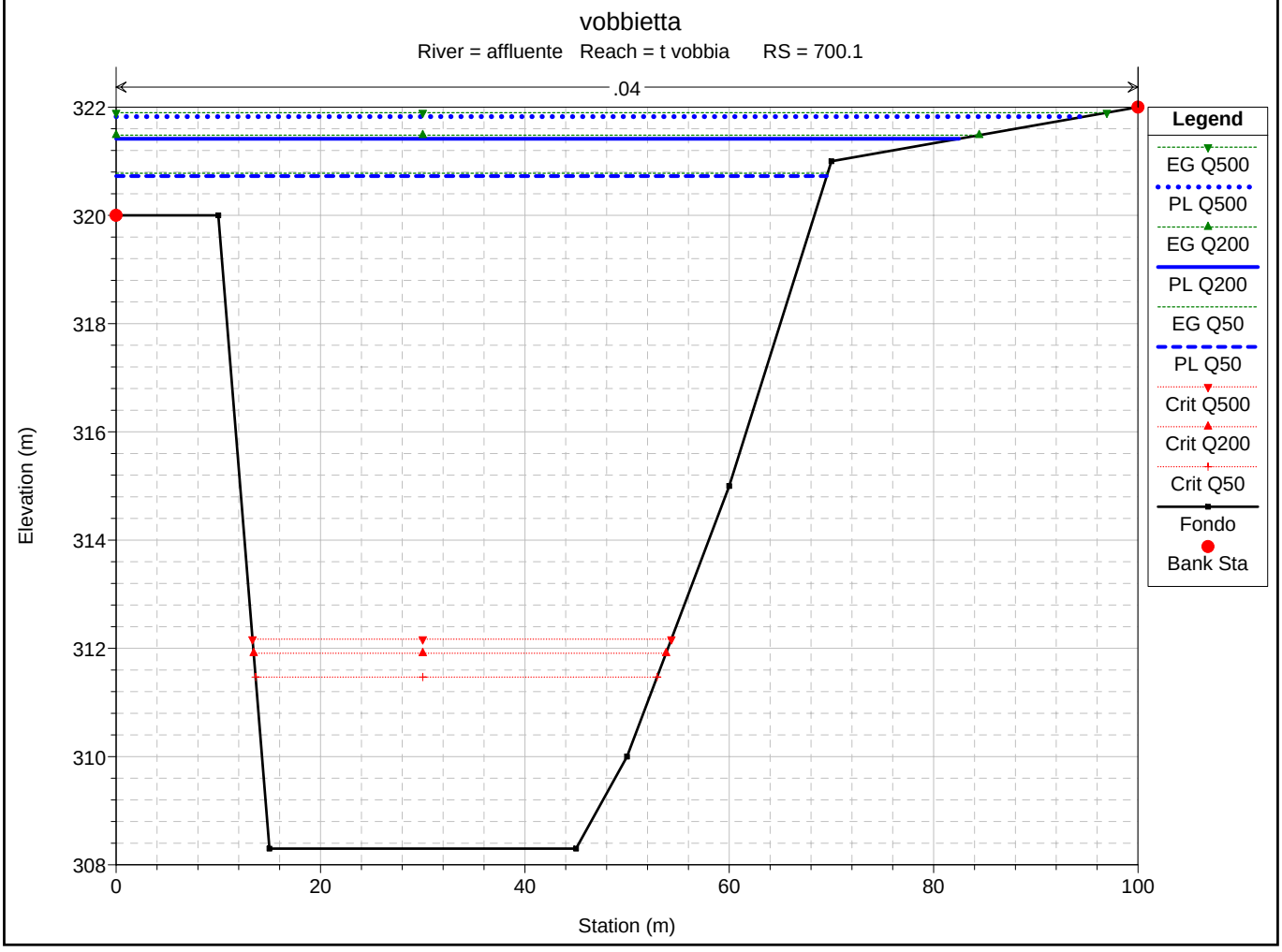
Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
324
322
320
318
316
314
312
310
0
20
40
60
80
100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Legend
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PL Q500
EG Q200
PL Q200
EG Q50
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Crit Q500
Crit Q200
Crit Q50
Fondo
Bank Sta
Elevation (m)
Station (m)
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318
316
314
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310
308
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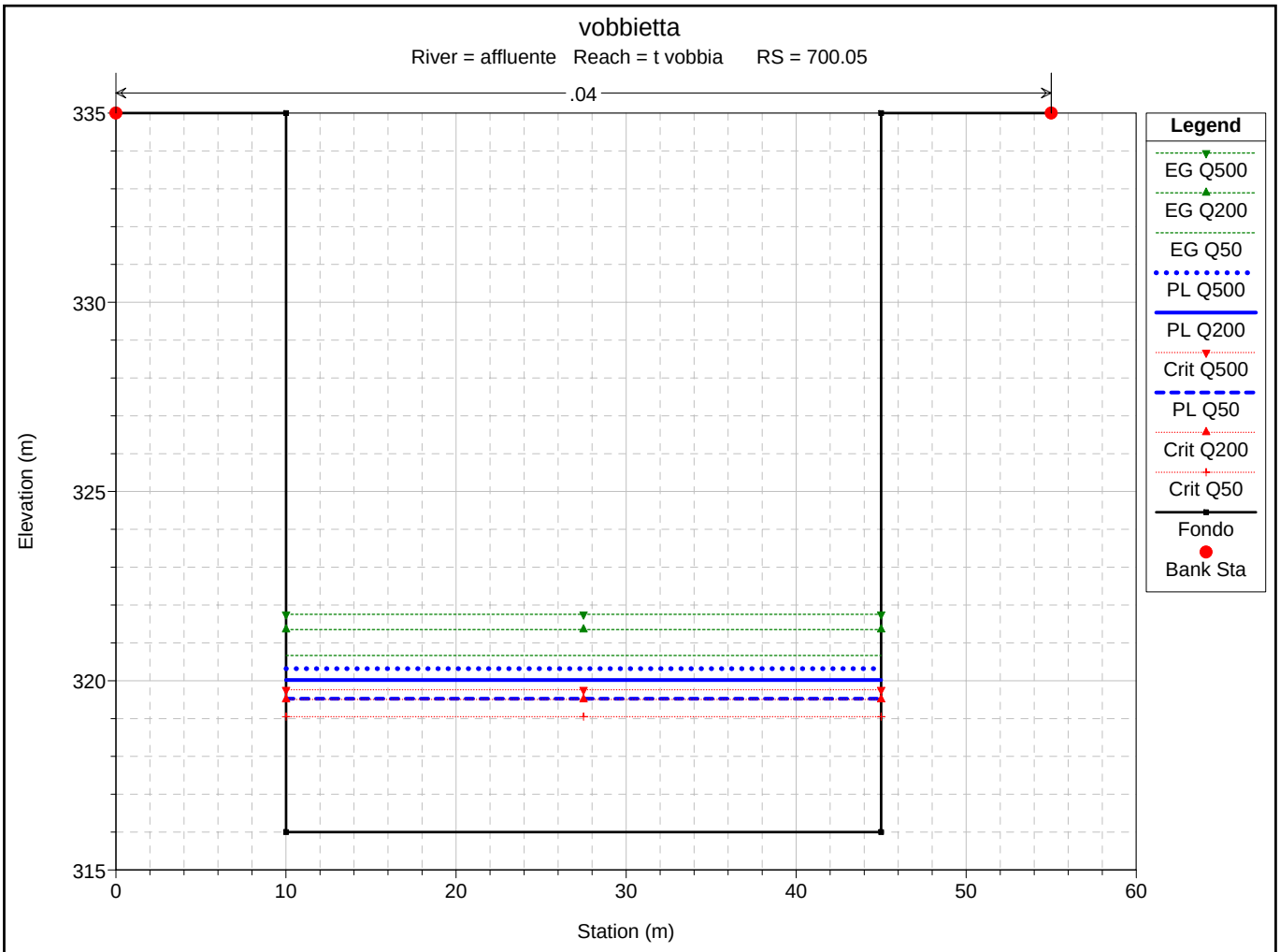
20
40
60
80
100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.04
Elevation (m)
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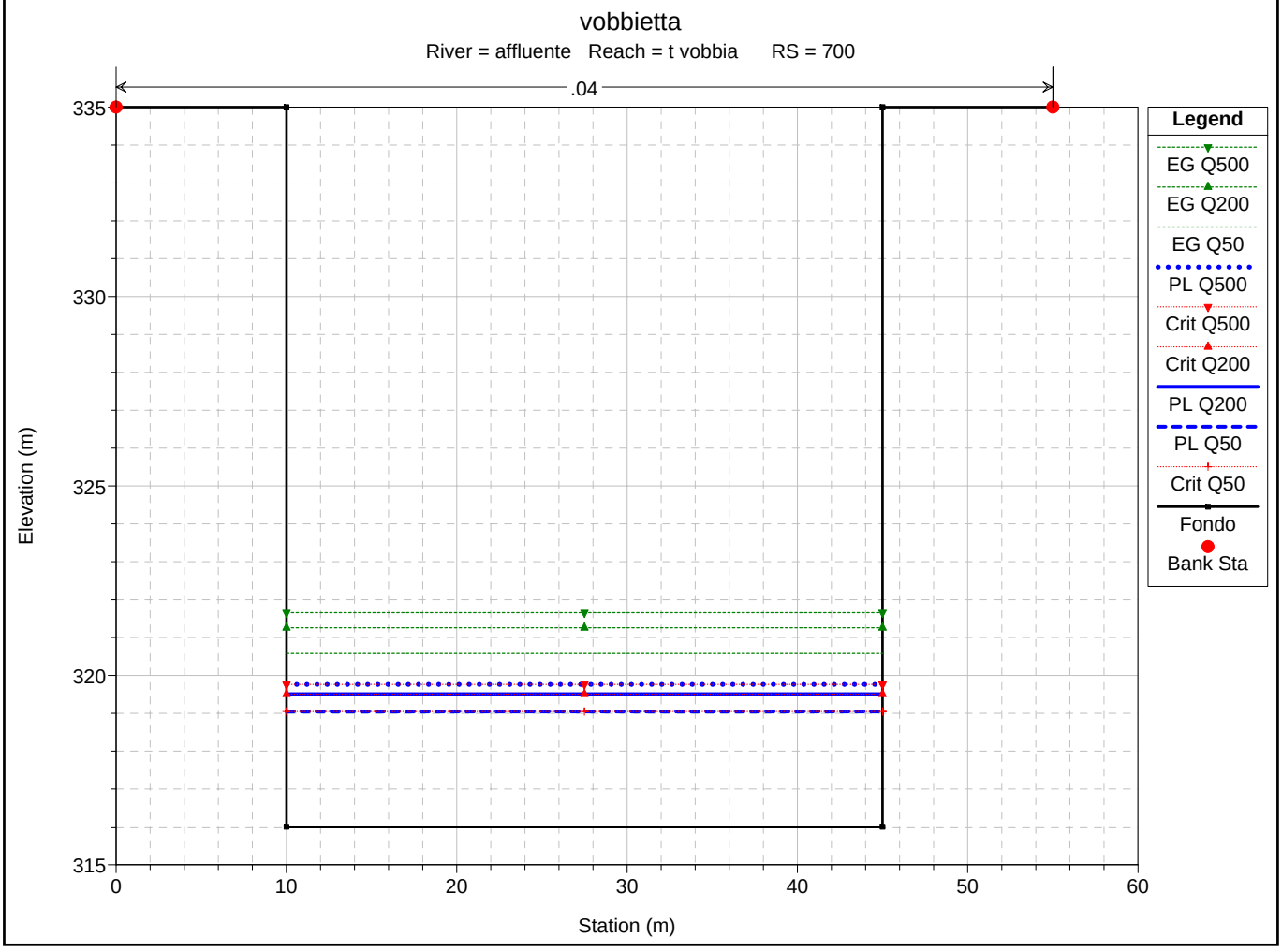
325
320
315
0
10
20
30
40
50
60
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
Crit Q500
PL Q50
Crit Q200
Crit Q50
Fondo
Bank Sta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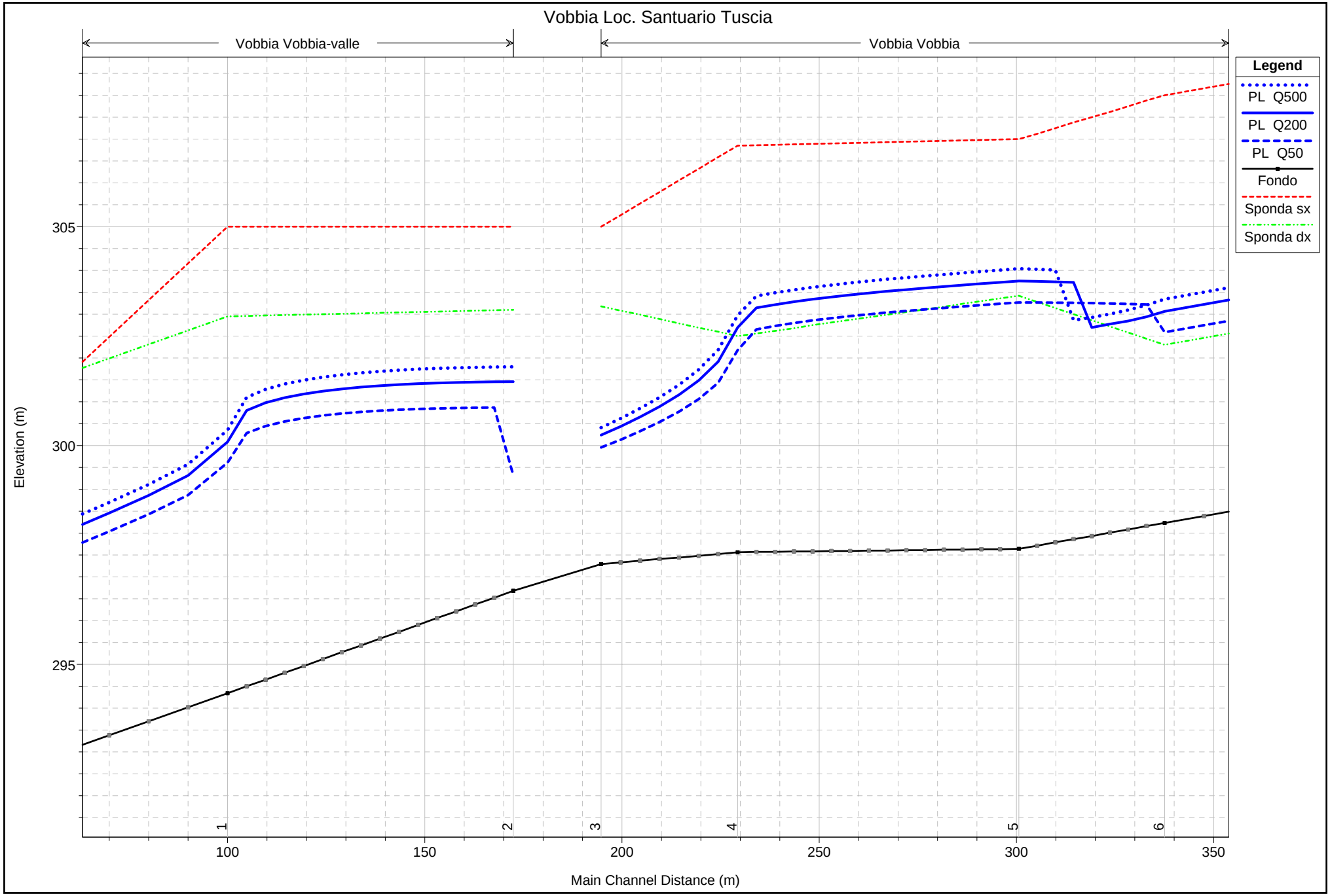
.04
Elevation (m)
335
330
325
320
315
0
10
20
30
40
50
60
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta

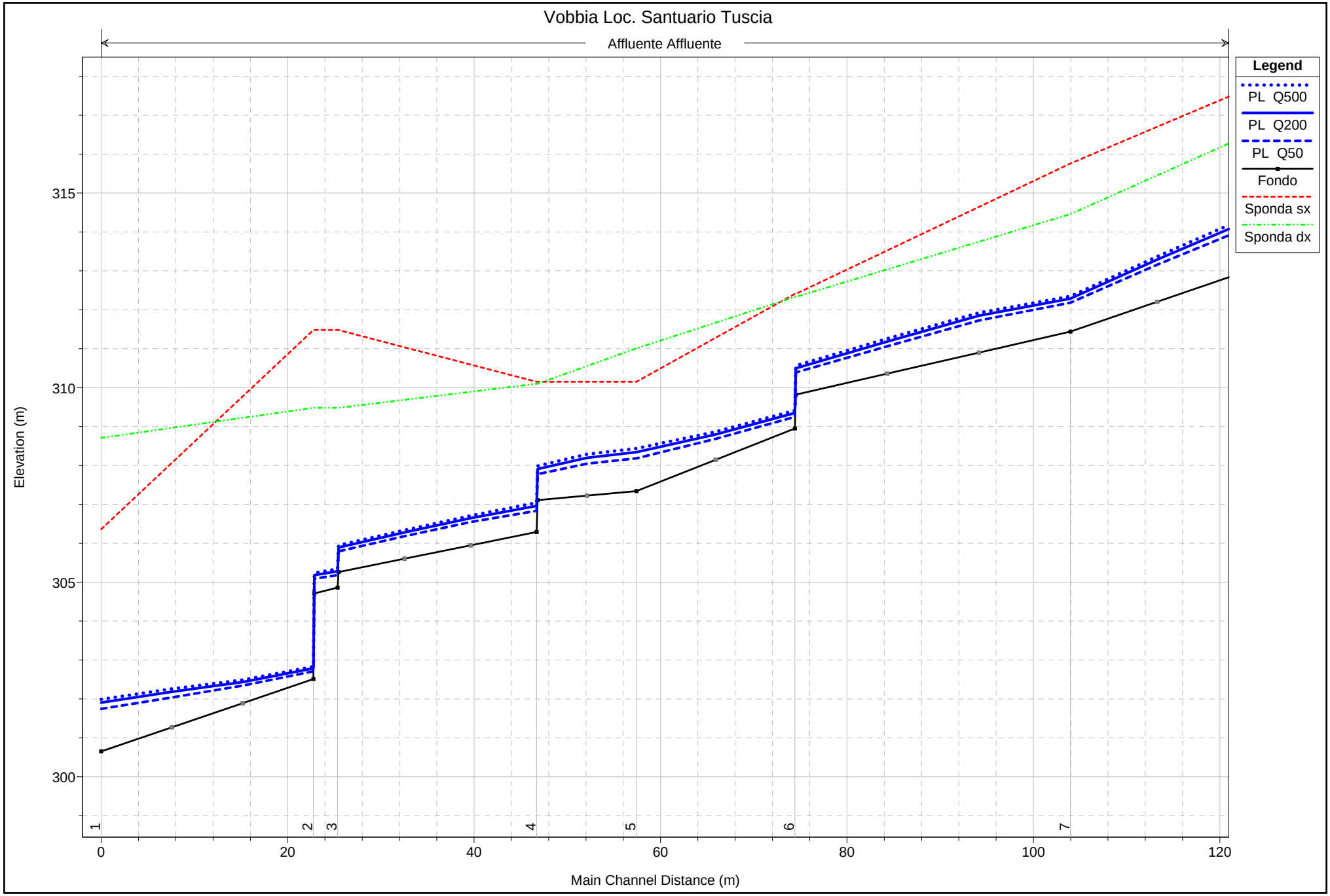
HEC-RAS Plan: St-Attuale River: affluente Reach: t vobbia

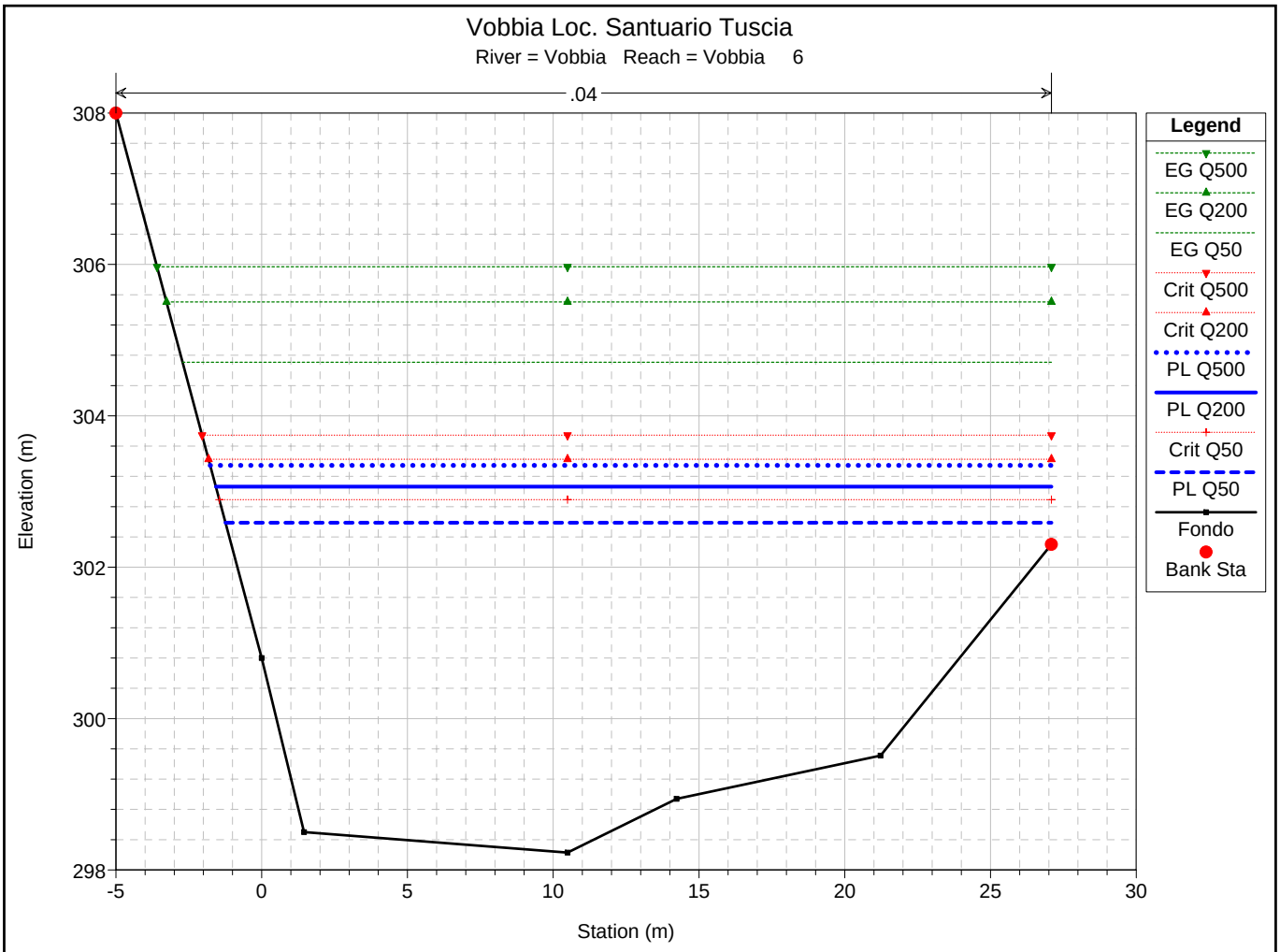
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
t vobbia	708	Q50	584.00	323.77	327.55	329.33	1.78	334.53	6.98	327.55	328.61	0.013001	4.56	128.19	60.87	1.00
t vobbia	708	Q200	719.00	323.77	327.94	329.33	1.39	334.53	6.59	327.94	329.05	0.012748	4.68	153.78	69.42	1.00
t vobbia	708	Q500	803.00	323.77	328.13	329.33	1.20	334.53	6.40	328.13	329.30	0.012732	4.80	167.34	72.62	1.01
t vobbia	707	Q50	584.00	318.77	325.12	324.33	-0.79	329.53	4.41	322.55	325.28	0.000946	1.81	322.77	84.90	0.30
t vobbia	707	Q200	719.00	318.77	325.69	324.33	-1.36	329.53	3.84	322.94	325.88	0.000916	1.93	371.72	85.68	0.30
t vobbia	707	Q500	803.00	318.77	325.71	324.33	-1.38	329.53	3.82	323.13	325.94	0.001131	2.15	372.99	85.70	0.33
t vobbia	706	Q50	584.00	318.31	324.67	328.43	3.76	326.88	2.21	322.43	325.06	0.002419	2.78	209.91	53.88	0.45
t vobbia	706	Q200	719.00	318.31	325.20	328.43	3.23	326.88	1.68	322.87	325.65	0.002539	3.00	239.49	56.44	0.47
t vobbia	706	Q500	803.00	318.31	325.02	328.43	3.41	326.88	1.86	323.25	325.64	0.003621	3.50	229.54	56.44	0.55
t vobbia	705.5		Bridge													
t vobbia	705	Q50	584.00	318.31	322.50	328.43	5.93	326.88	4.38	322.43	323.88	0.011485	5.21	112.17	38.16	0.97
t vobbia	705	Q200	719.00	318.31	322.93	328.43	5.50	326.88	3.95	322.87	324.52	0.011464	5.59	128.64	38.83	0.98
t vobbia	705	Q500	803.00	318.31	323.35	328.43	5.08	326.88	3.53	323.25	324.89	0.011122	5.48	146.42	43.98	0.96
t vobbia	704	Q50	584.00	316.86	320.68	324.37	3.69	329.44	8.76	320.68	322.21	0.012230	5.48	106.65	35.32	1.01
t vobbia	704	Q200	719.00	316.86	321.16	324.37	3.21	329.44	8.28	321.16	322.87	0.011861	5.80	124.04	36.62	1.01
t vobbia	704	Q500	803.00	316.86	321.44	324.37	2.93	329.44	8.00	321.44	323.26	0.011692	5.98	134.39	37.37	1.01
t vobbia	703	Q50	584.00	314.35	320.71	326.50	5.79	326.50	5.79	317.79	321.07	0.001512	2.69	217.43	41.90	0.38
t vobbia	703	Q200	719.00	314.35	321.39	326.50	5.11	326.50	5.11	318.27	321.82	0.001614	2.91	246.88	44.04	0.39
t vobbia	703	Q500	803.00	314.35	321.80	326.50	4.70	326.50	4.70	318.54	322.27	0.001689	3.03	265.25	46.20	0.40
t vobbia	702	Q50	584.00	312.88	320.72	325.00	4.28	325.00	4.28	316.23	320.93	0.000718	2.03	288.39	48.06	0.26
t vobbia	702	Q200	719.00	312.88	321.41	325.00	3.59	325.00	3.59	316.69	321.66	0.000816	2.23	322.56	51.27	0.28
t vobbia	702	Q500	803.00	312.88	321.82	325.00	3.18	325.00	3.18	316.97	322.09	0.000863	2.33	343.96	53.29	0.29
t vobbia	701	Q50	584.00	310.59	320.72	322.80	2.08	322.80	2.08	313.98	320.82	0.000305	1.38	422.16	67.40	0.18
t vobbia	701	Q200	719.00	310.59	321.42	322.80	1.38	322.80	1.38	314.45	321.54	0.000365	1.53	471.37	74.82	0.19
t vobbia	701	Q500	803.00	310.59	321.83	322.80	0.97	322.80	0.97	314.72	321.96	0.000394	1.60	503.19	79.35	0.20
t vobbia	700.1	Q50	584.00	308.30	320.73	320.00	-0.73	322.00	1.27	311.47	320.78	0.000117	1.01	580.49	69.55	0.11
t vobbia	700.1	Q200	719.00	308.30	321.42	320.00	-1.42	322.00	0.58	311.91	321.48	0.000166	1.14	631.18	82.47	0.13
t vobbia	700.1	Q500	803.00	308.30	321.82	320.00	-1.82	322.00	0.18	312.17	321.90	0.000203	1.20	667.44	94.75	0.14
t vobbia	700.05	Q50	584.00	316.00	319.53	335.00	15.47	335.00	15.47	319.05	320.67	0.008533	4.73	123.38	35.00	0.80
t vobbia	700.05	Q200	719.00	316.00	320.02	335.00	14.98	335.00	14.98	319.50	321.35	0.008612	5.11	140.70	35.00	0.81
t vobbia	700.05	Q500	803.00	316.00	320.32	335.00	14.68	335.00	14.68	319.76	321.76	0.008623	5.31	151.12	35.00	0.82
t vobbia	700	Q50	584.00	316.00	319.05	335.00	15.95	335.00	15.95	319.05	320.57	0.013448	5.48	106.66	35.00	1.00
t vobbia	700	Q200	719.00	316.00	319.50	335.00	15.50	335.00	15.50	319.50	321.25	0.013191	5.86	122.61	35.00	1.00
t vobbia	700	Q500	803.00	316.00	319.76	335.00	15.24	335.00	15.24	319.76	321.66	0.013205	6.10	131.61	35.00	1.00

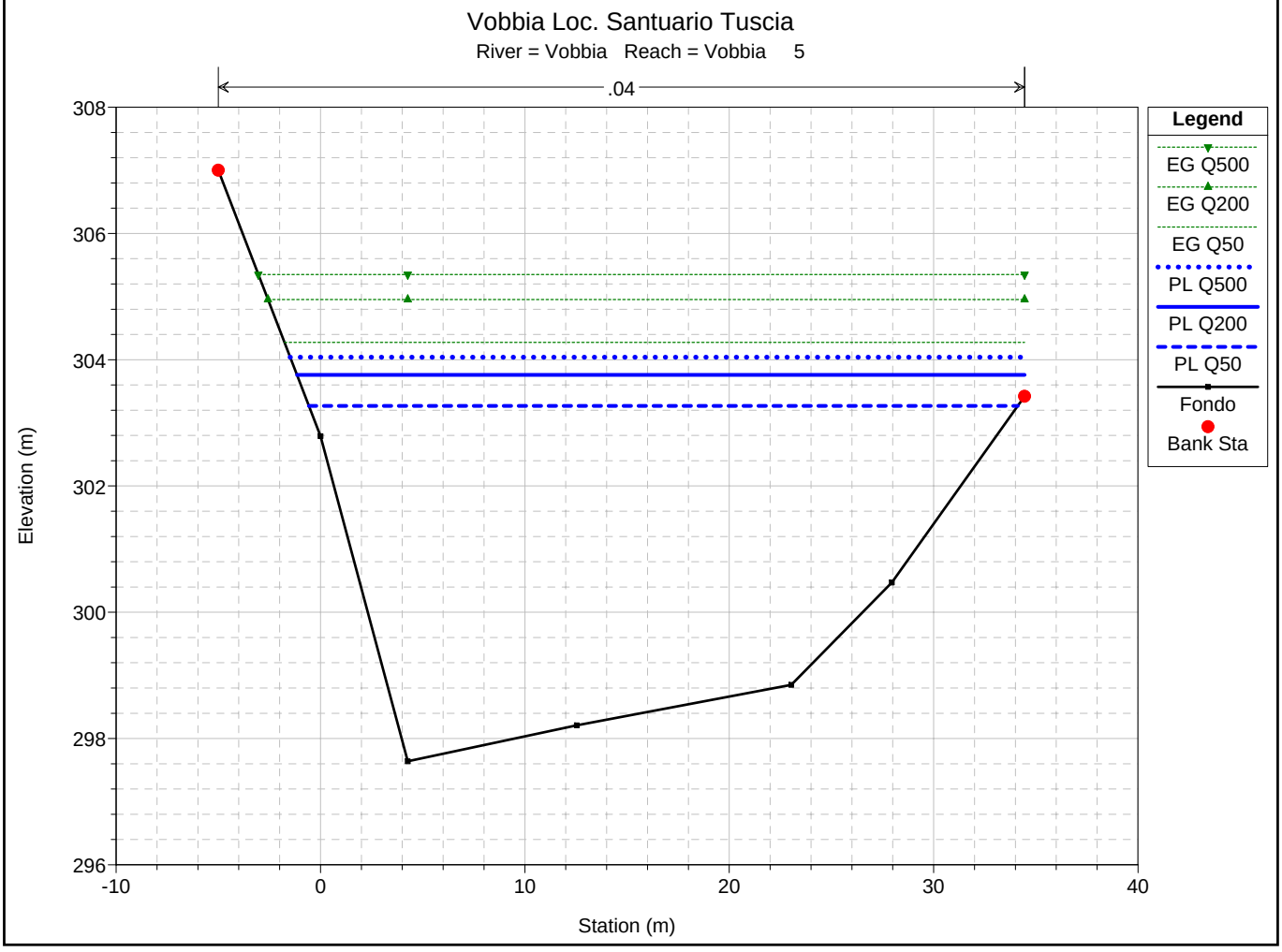
Torrente Vobbia (loc. Tuscia)

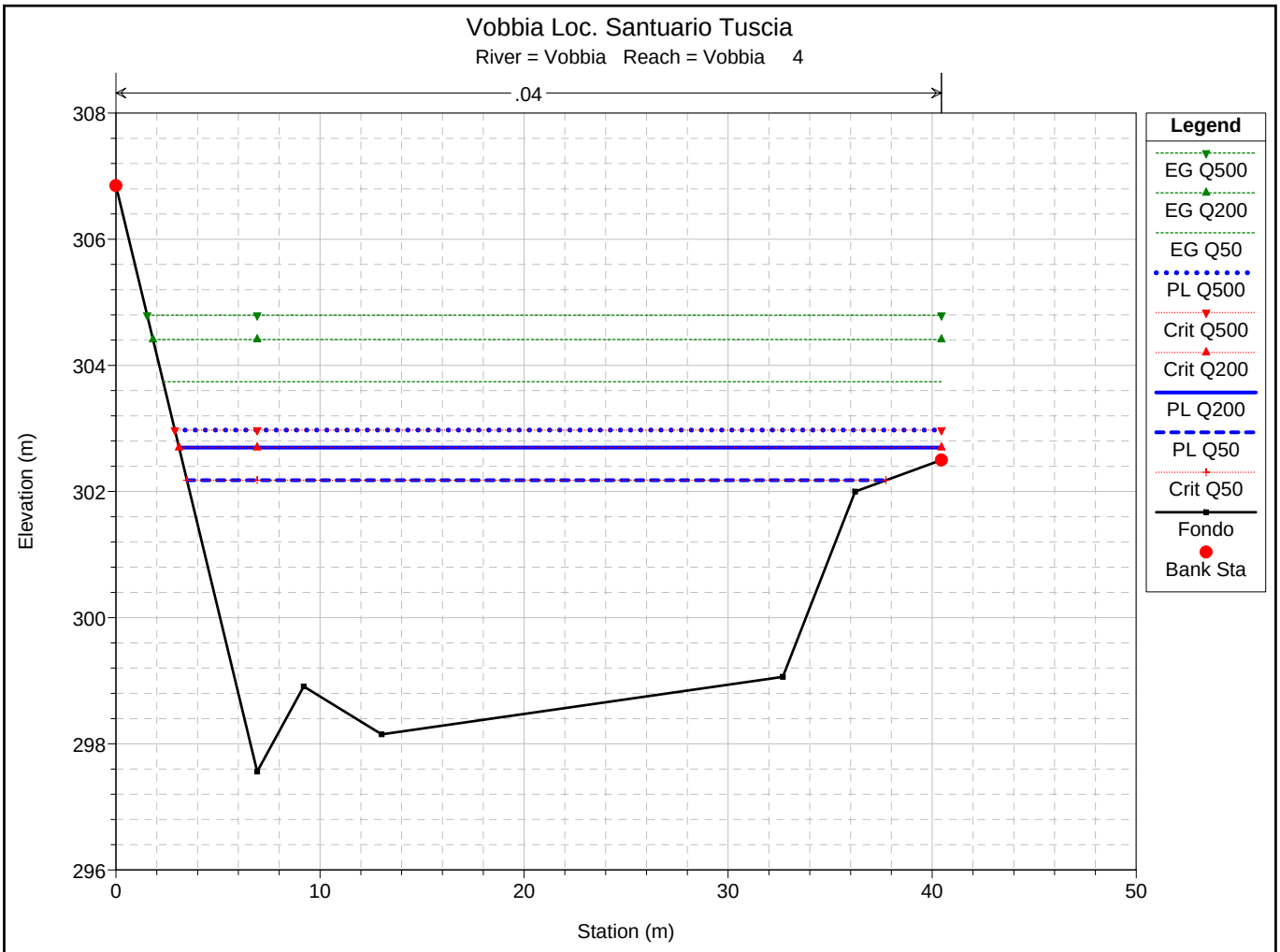
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

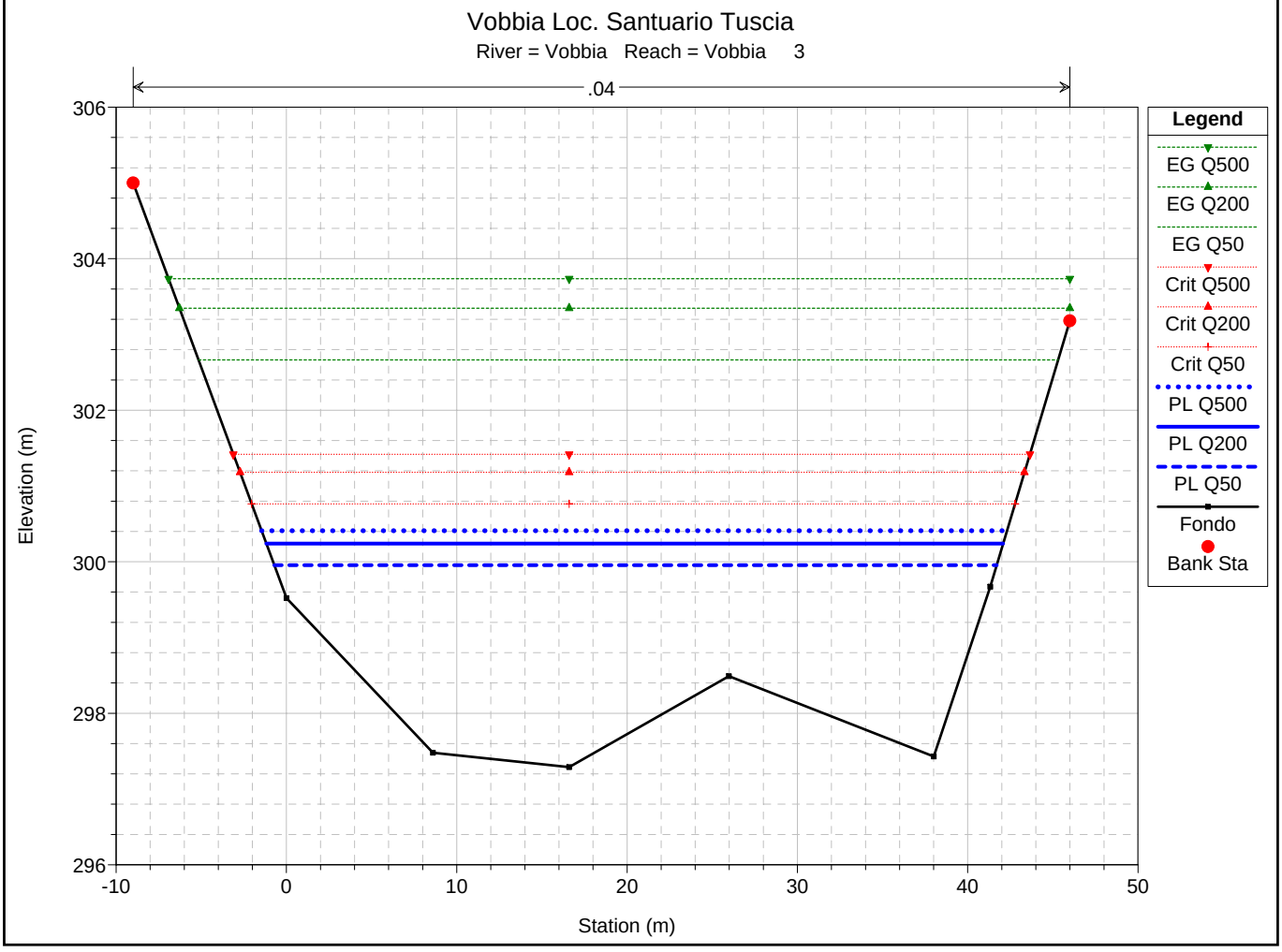

Vobbia Loc. Santuario Tuscia
Vobbia Vobbia-valle
Vobbia Vobbia
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
305
300
295
100
150
200
250
300
350
Main Channel Distance (m)
1
2
3
4
5
6


Vobbia Loc. Santuario Tuscia
Affluente Affluente
Legend
PL Q500
PL Q200
PL Q50
Fondo
Sponda sx
Sponda dx
Elevation (m)
315
310
305
300
0
20
40
60
80
100
120
Main Channel Distance (m)
1
2
3
4
5
6
7


Vobbia Loc. Santuario Tuscia
River = Vobbia Reach = Vobbia 6
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
PL Q200
Crit Q50
PL Q50
Fondo
Bank Sta

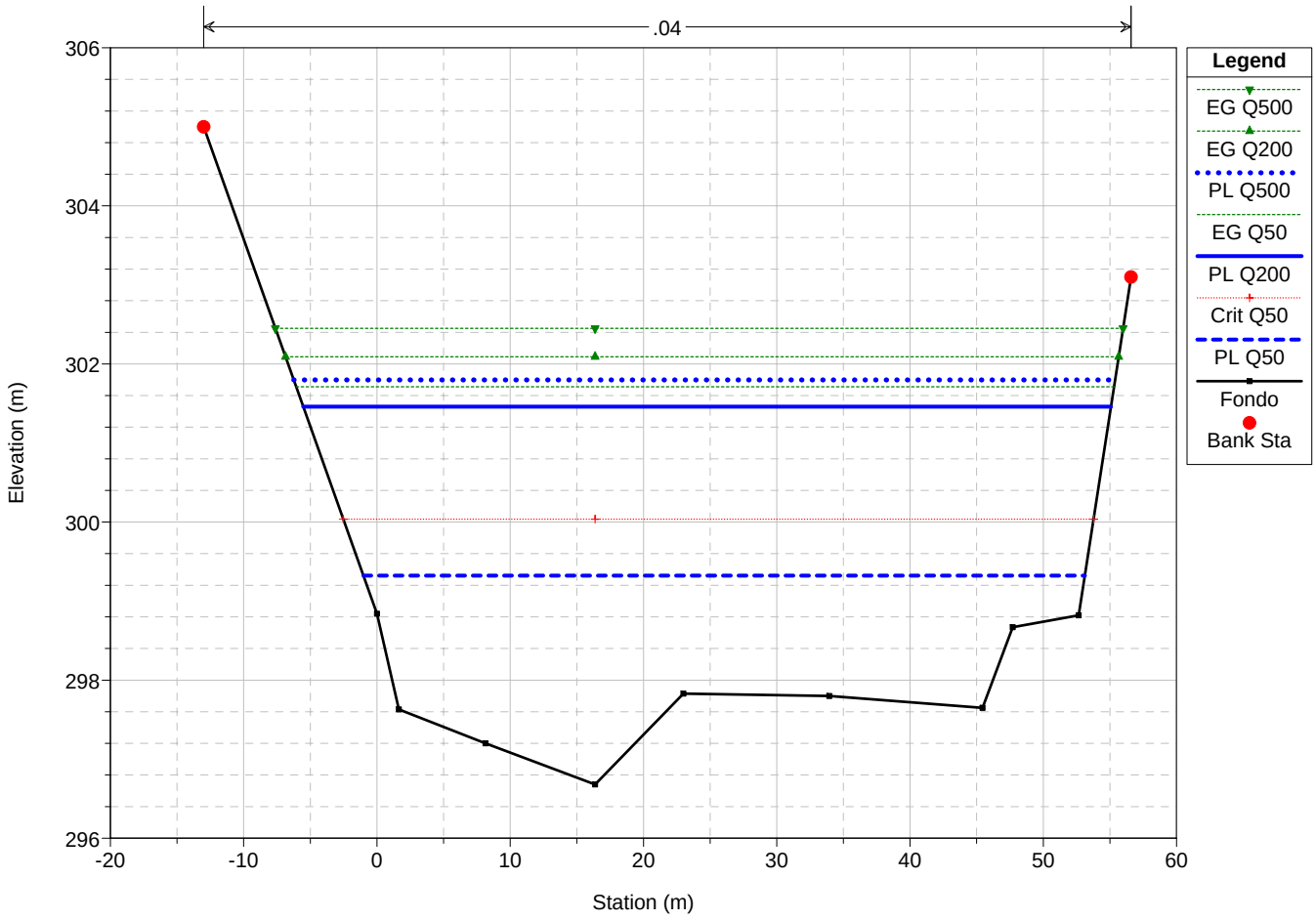

Vobbia Loc. Santuario Tuscia
River = Vobbia Reach = Vobbia 5
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Vobbia Loc. Santuario Tuscia
River = Vobbia Reach = Vobbia 4
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
PL Q500
Crit Q500
Crit Q200
PL Q200
PL Q50
Crit Q50
Fondo
Bank Sta


Vobbia Loc. Santuario Tuscia
River = Vobbia Reach = Vobbia 3
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

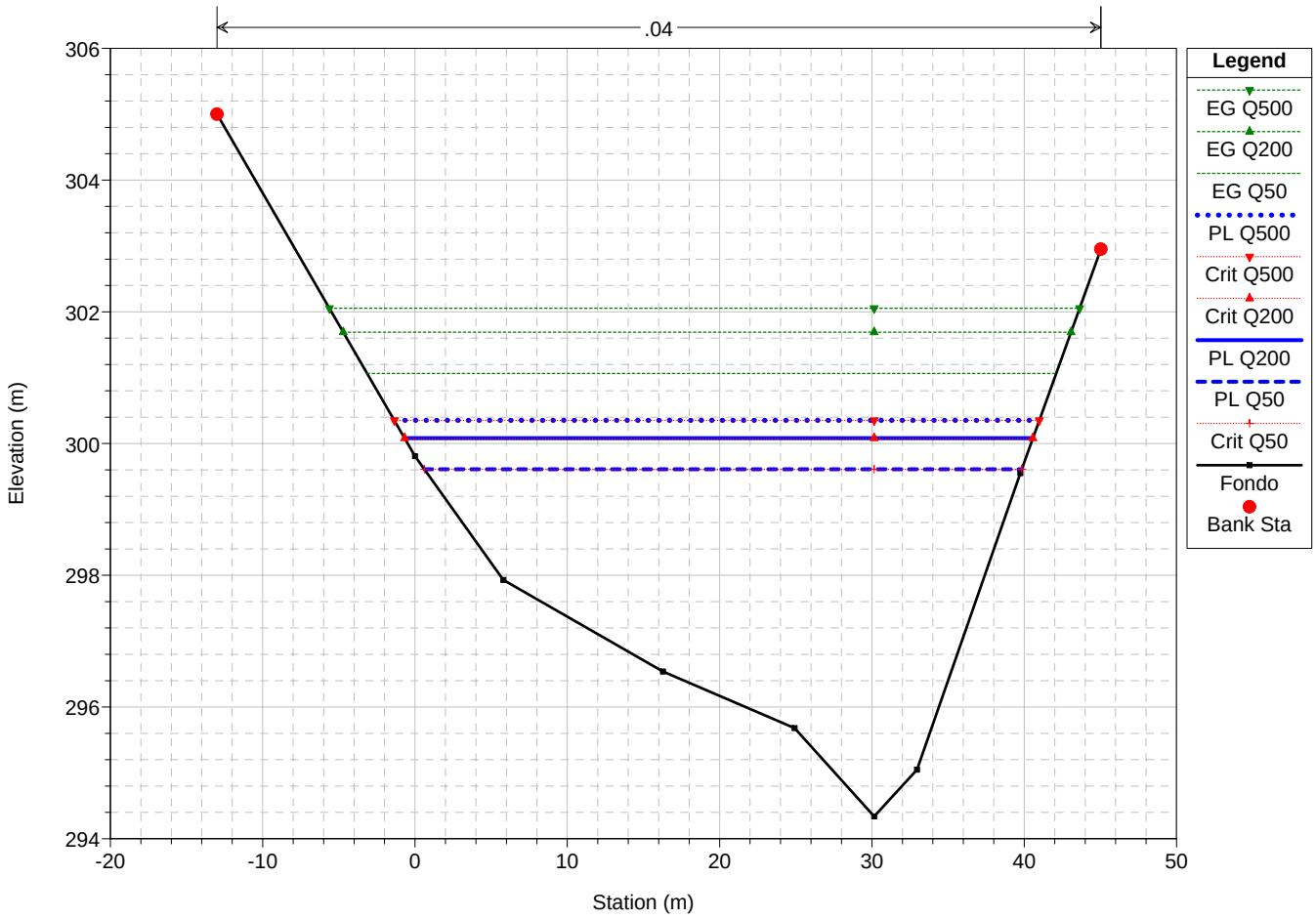
Vobbia Loc. Santuario Tuscia

River = Vobbia Reach = Vobbia-valle 2



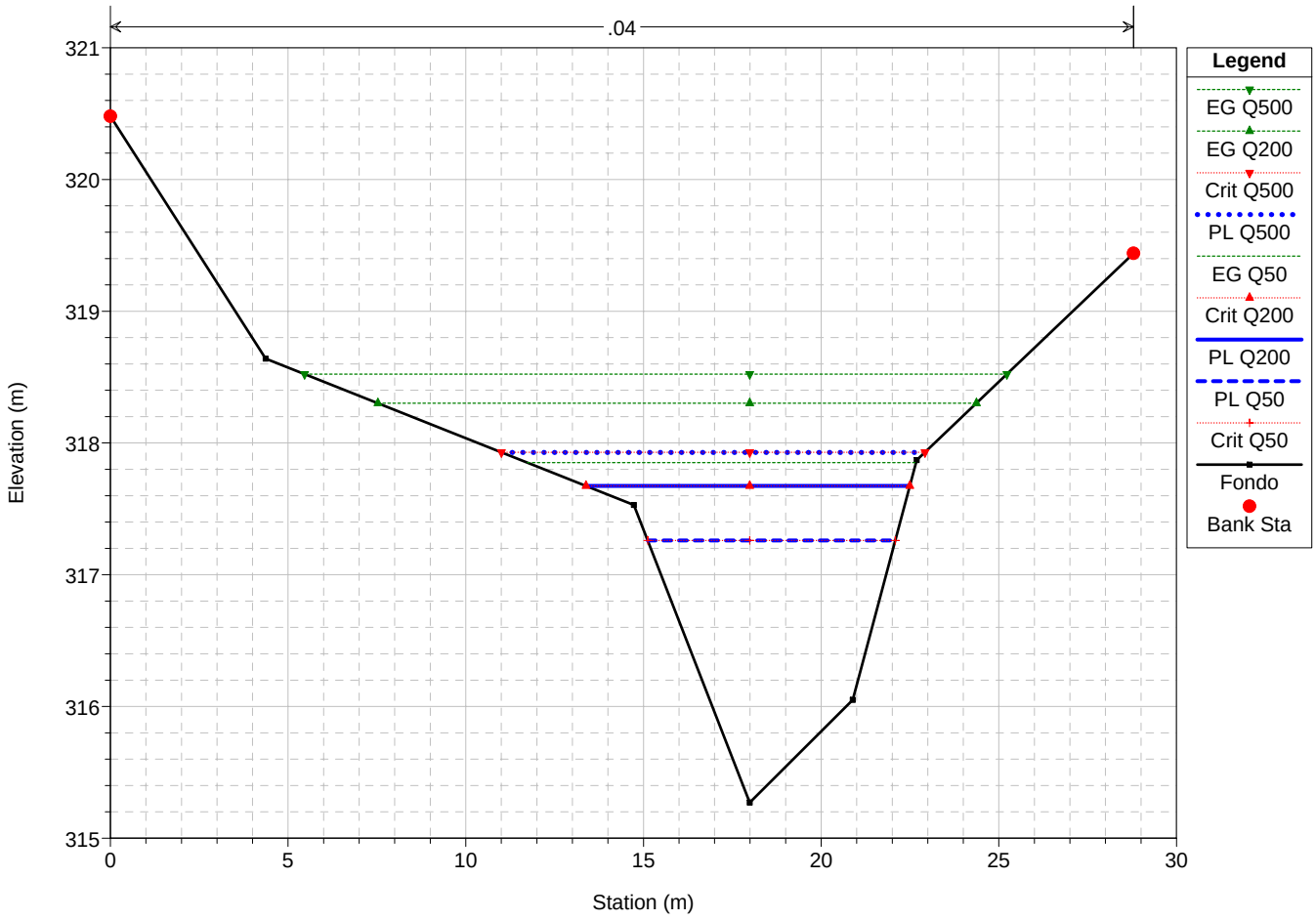
Vobbia Loc. Santuario Tuscia

River = Vobbia Reach = Vobbia-valle 1



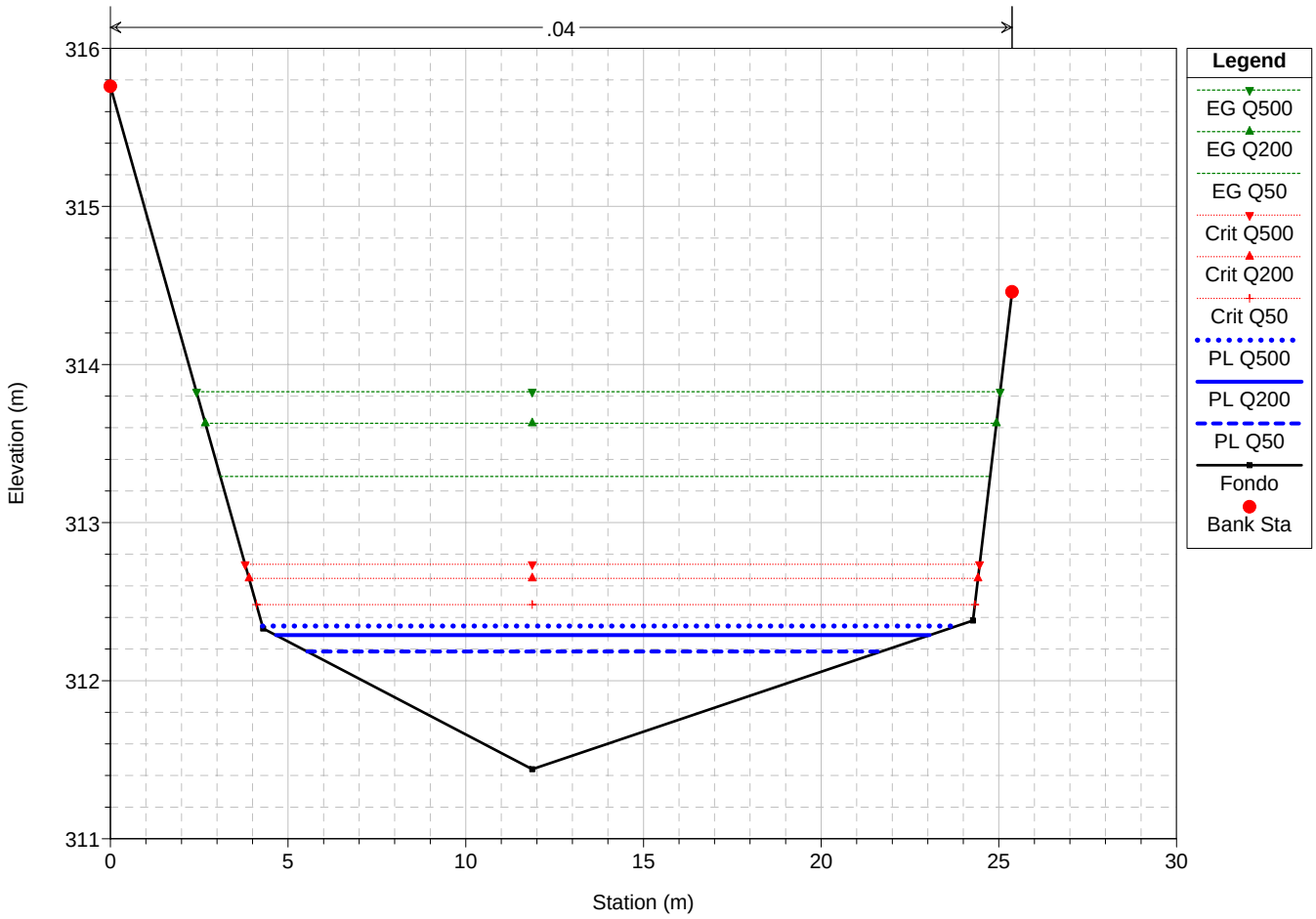
Vobbia Loc. Santuario Tuscia

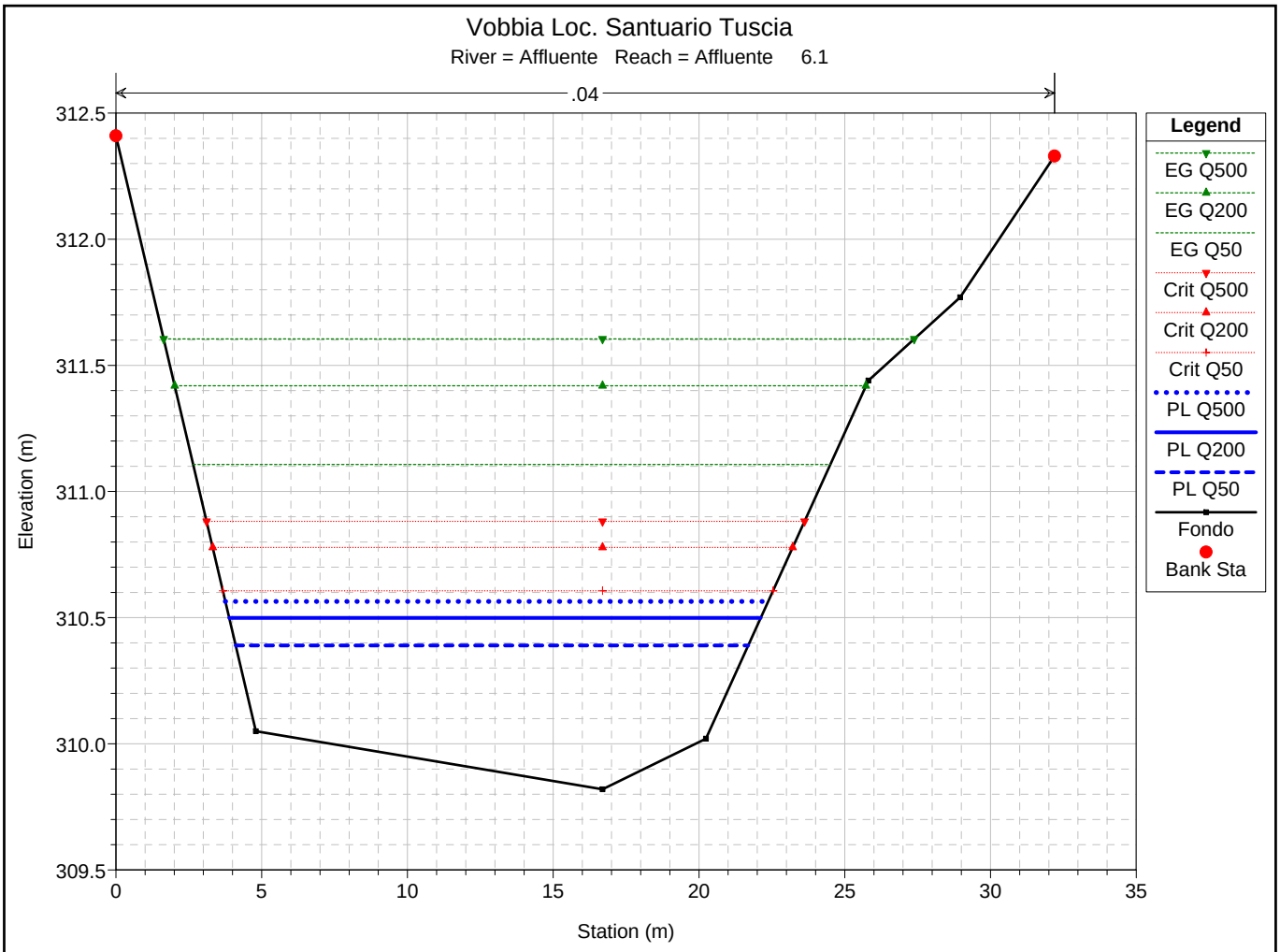
River = Affluente Reach = Affluente 8

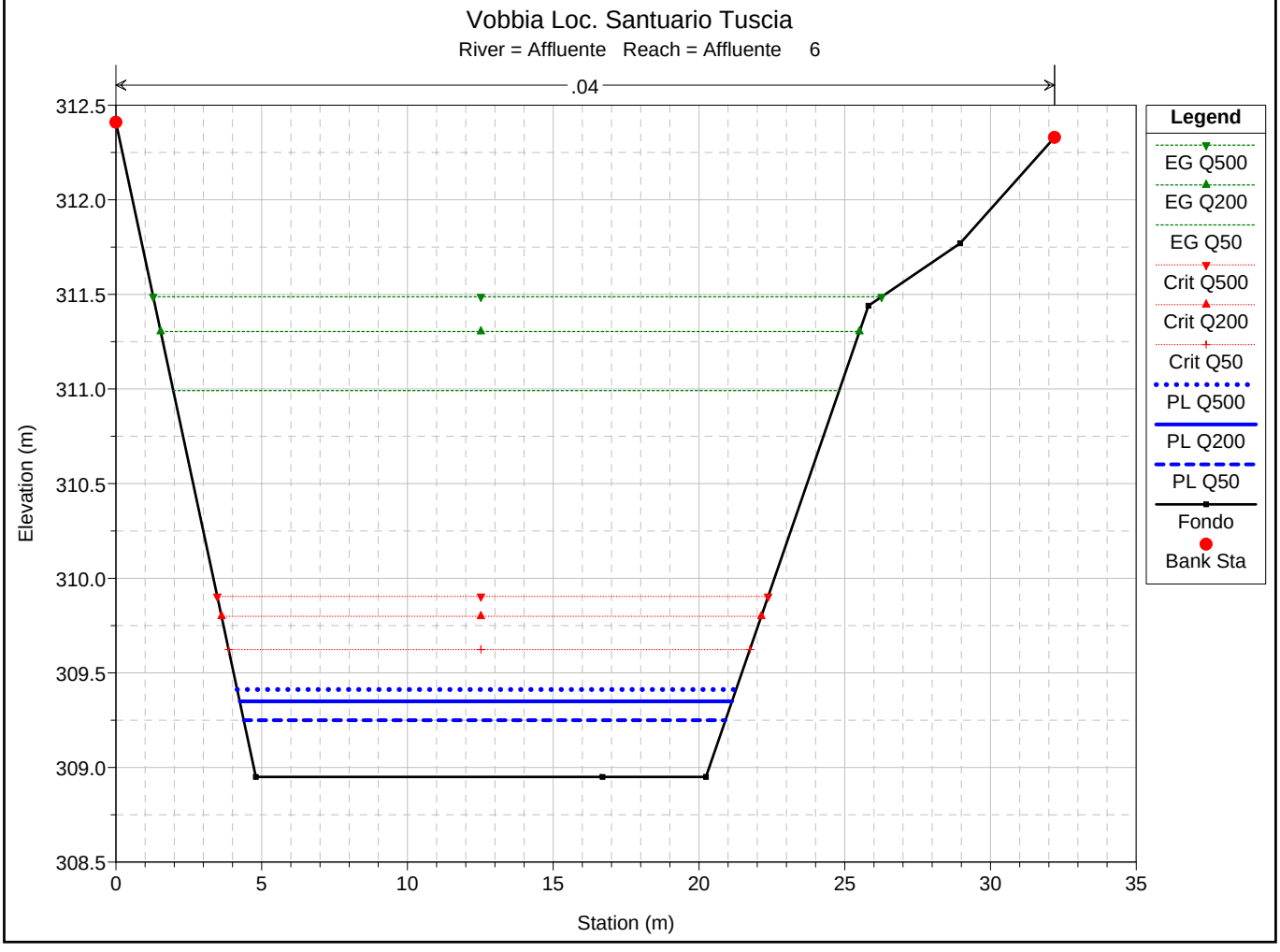


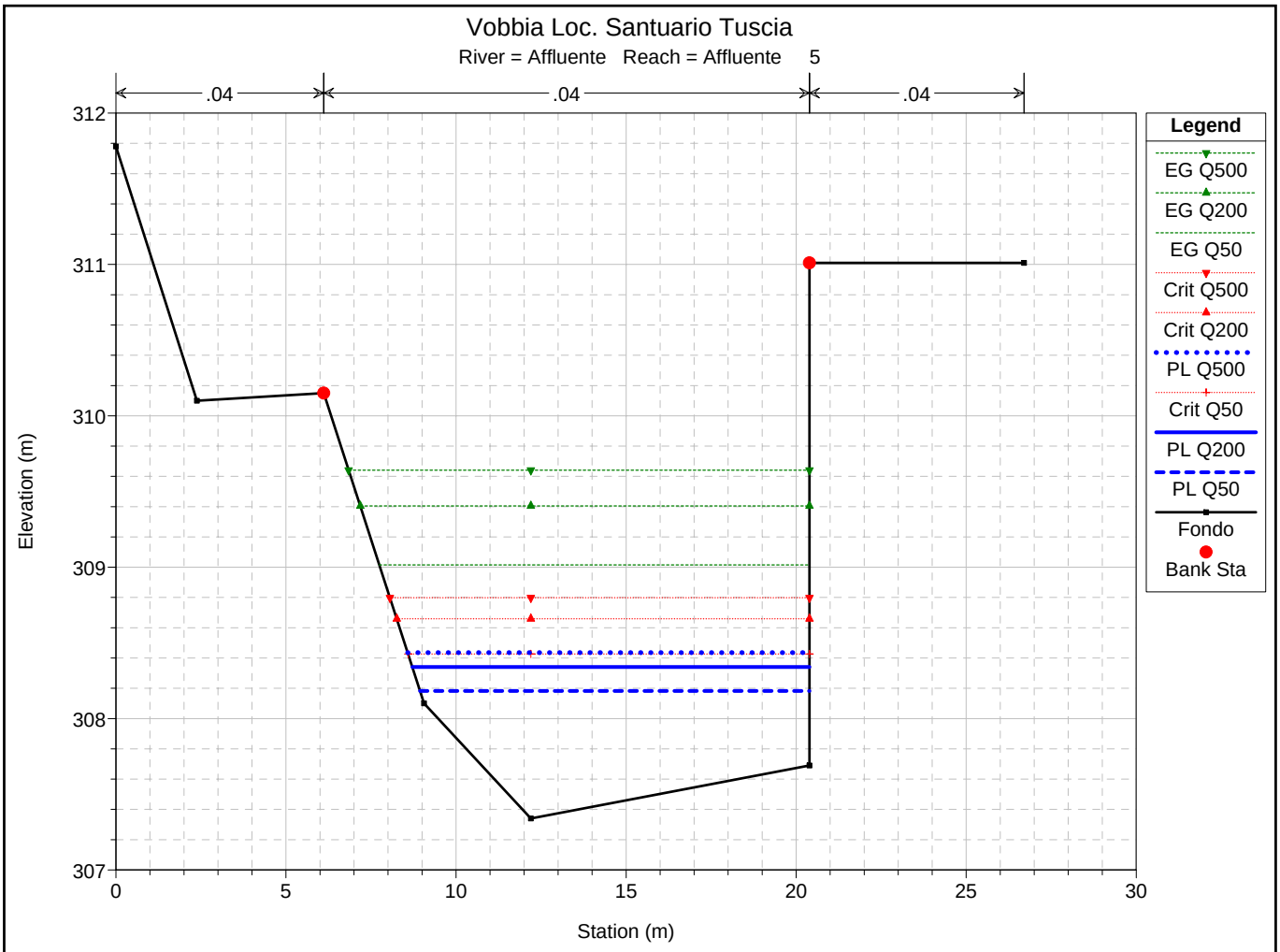
Vobbia Loc. Santuario Tuscia

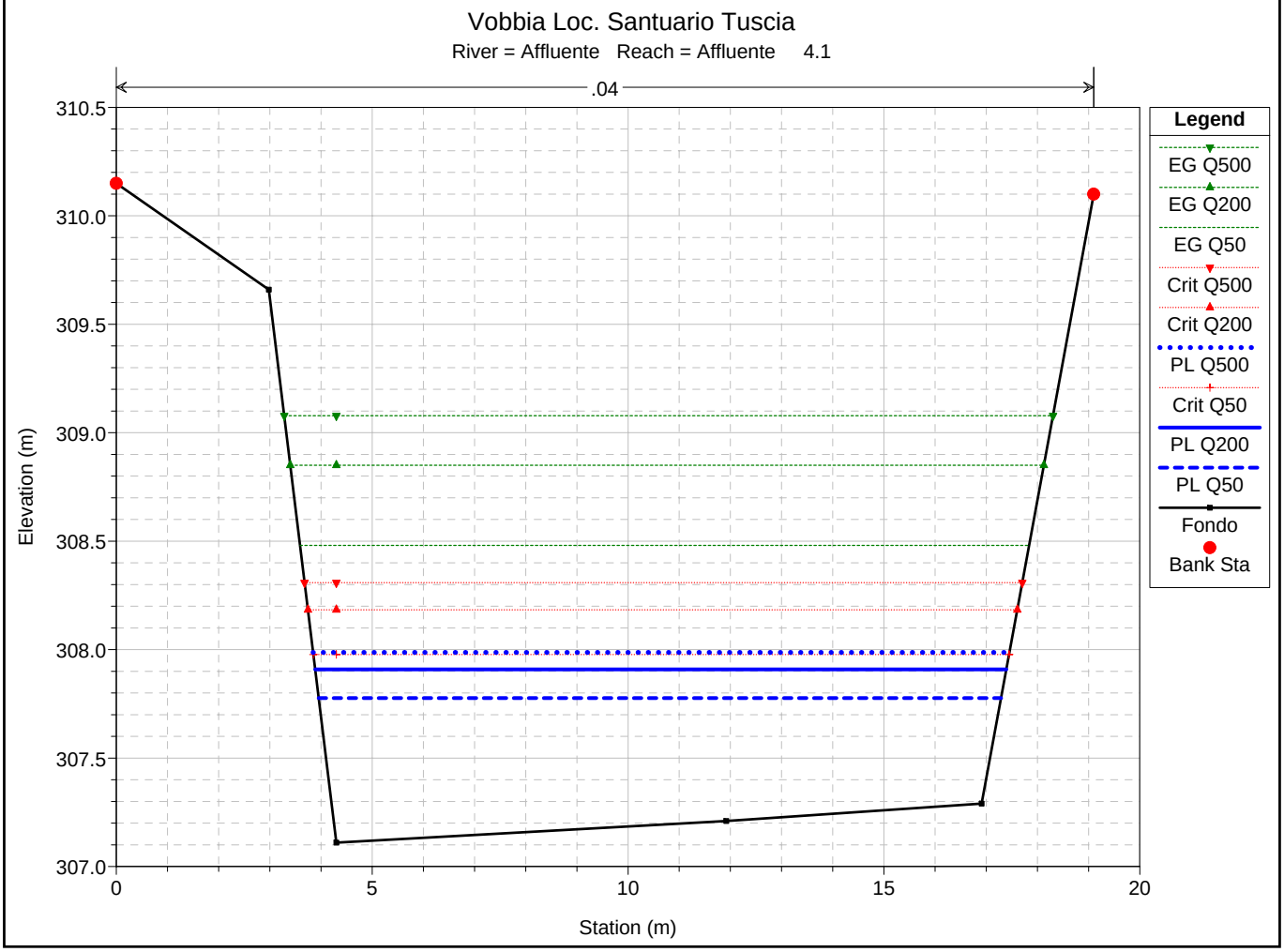
River = Affluente Reach = Affluente 7

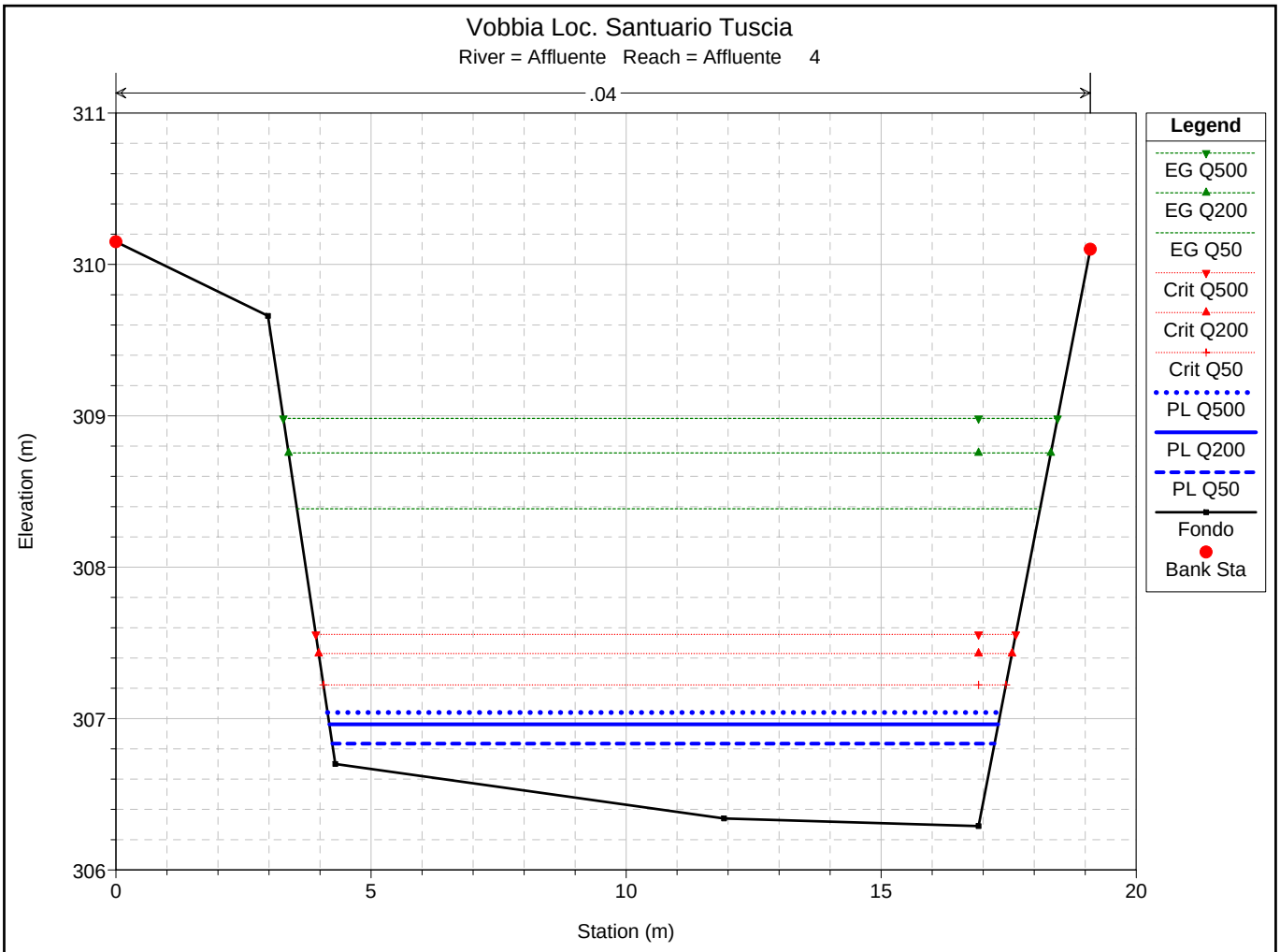


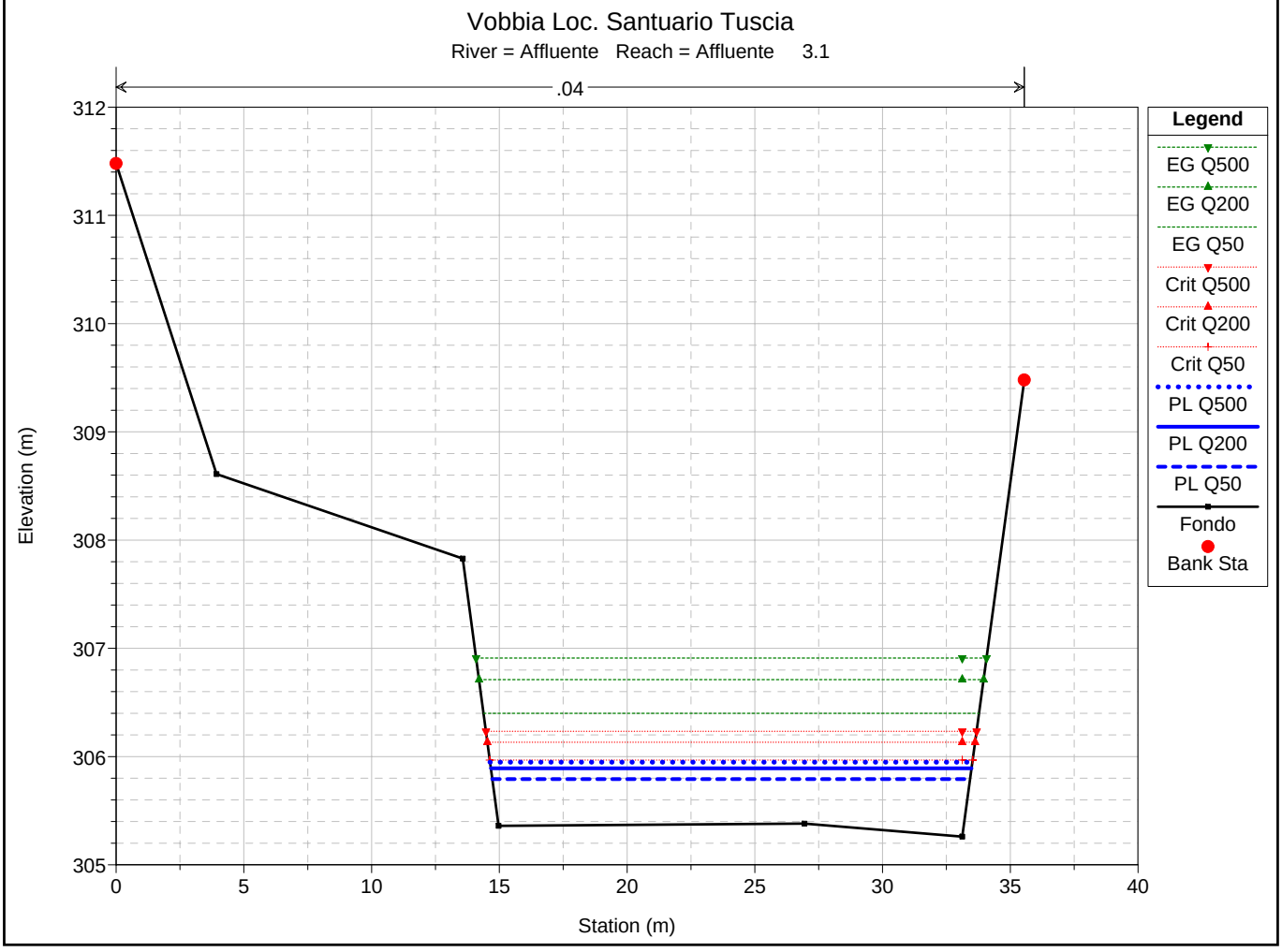

Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 6.1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

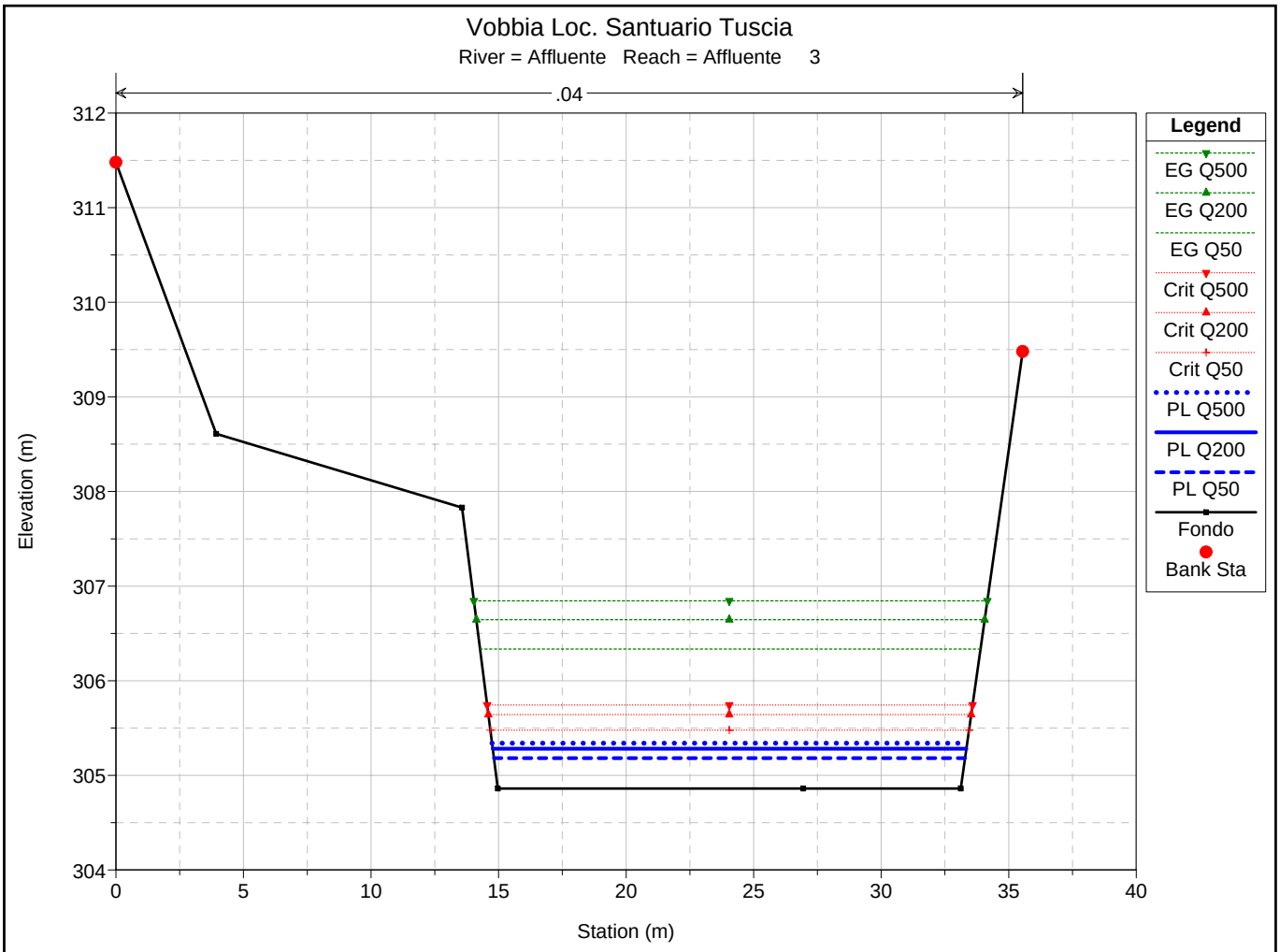

Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 6
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta

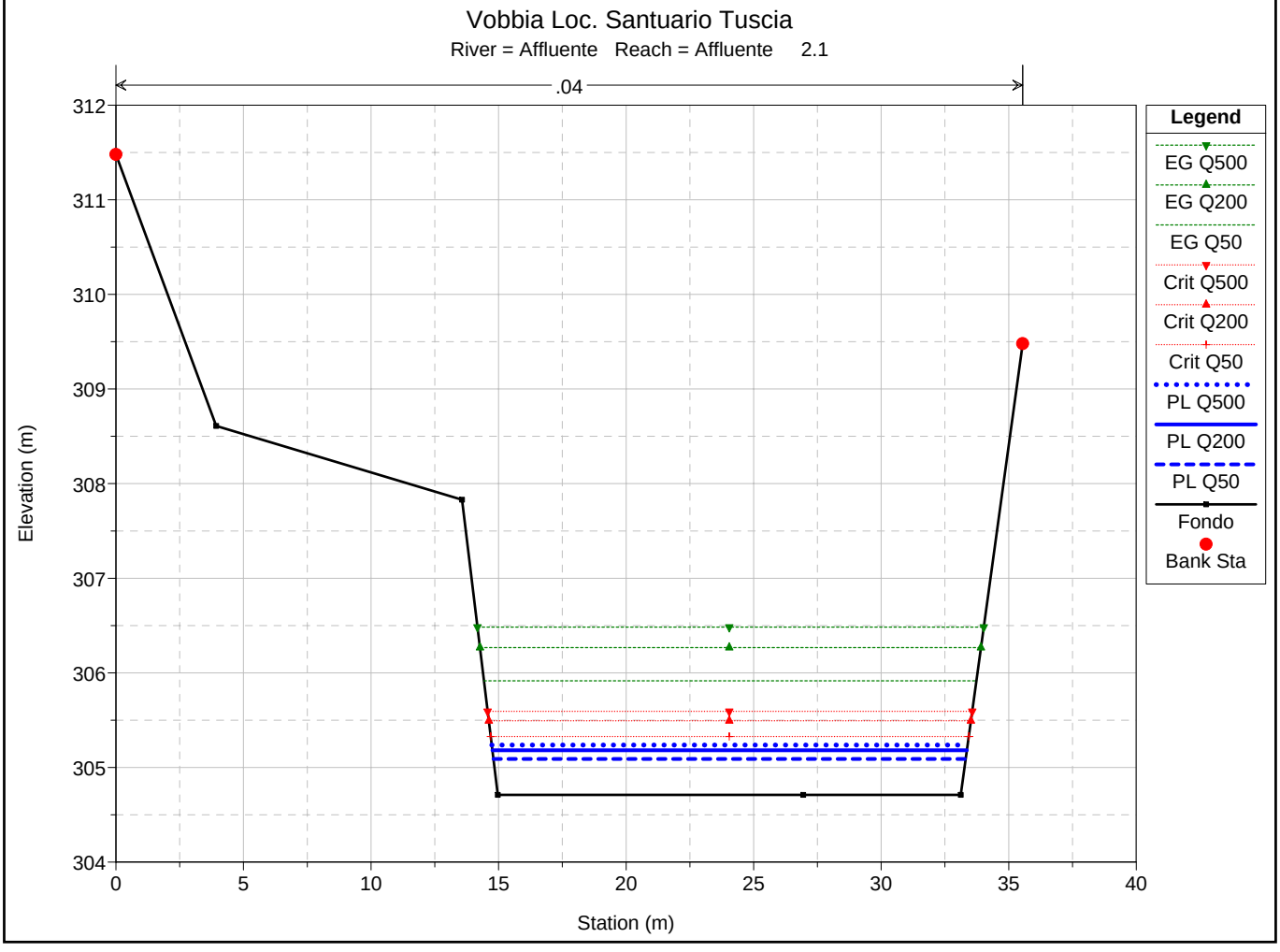

Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 5
.04
.04
.04
312
311
310
309
308
307
Elevation (m)
0
5
10
15
20
25
30
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

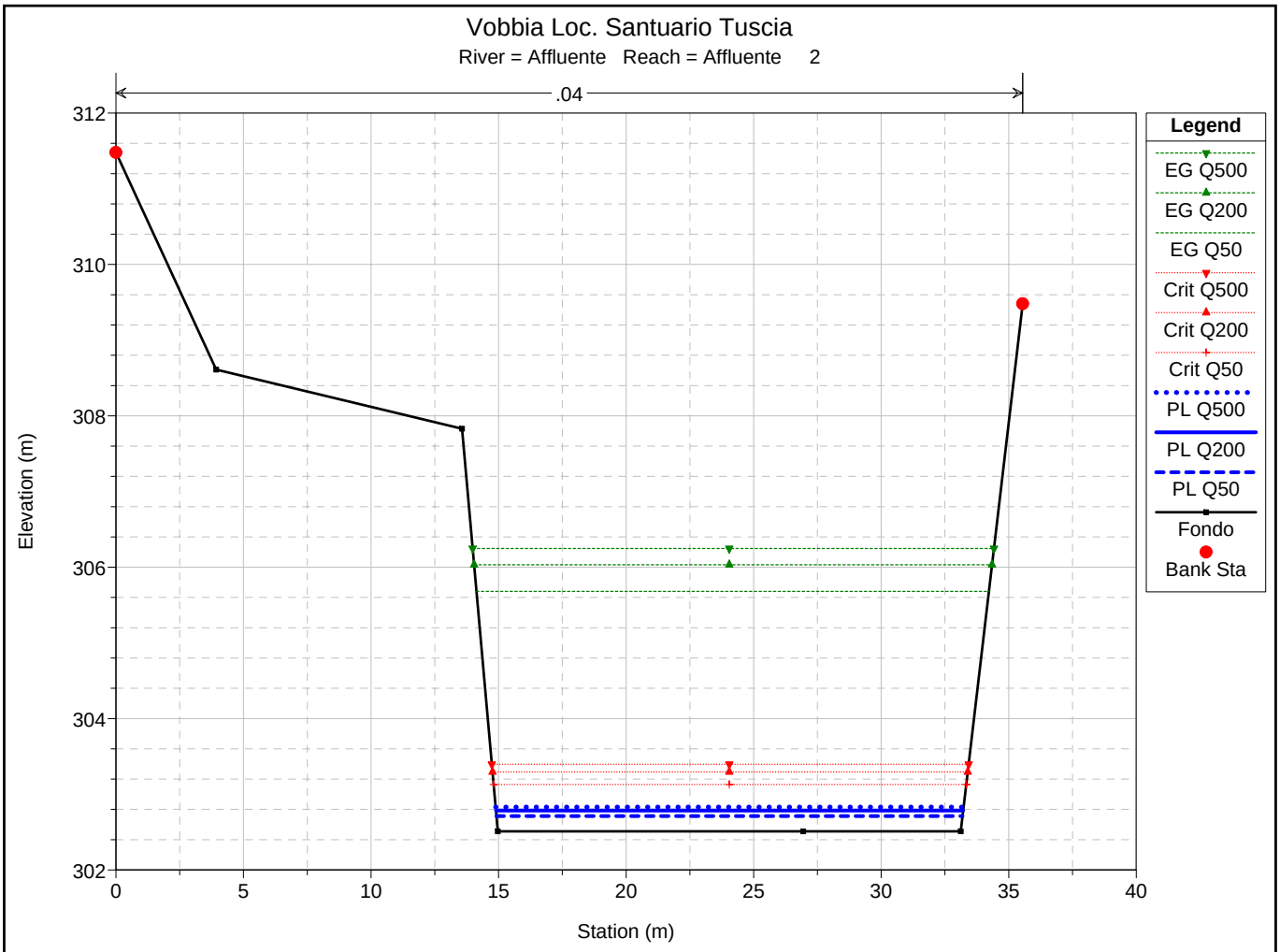

Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 4.1
.04
310.5
310.0
309.5
309.0
308.5
308.0
307.5
307.0
Elevation (m)
0
5
10
15
20
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

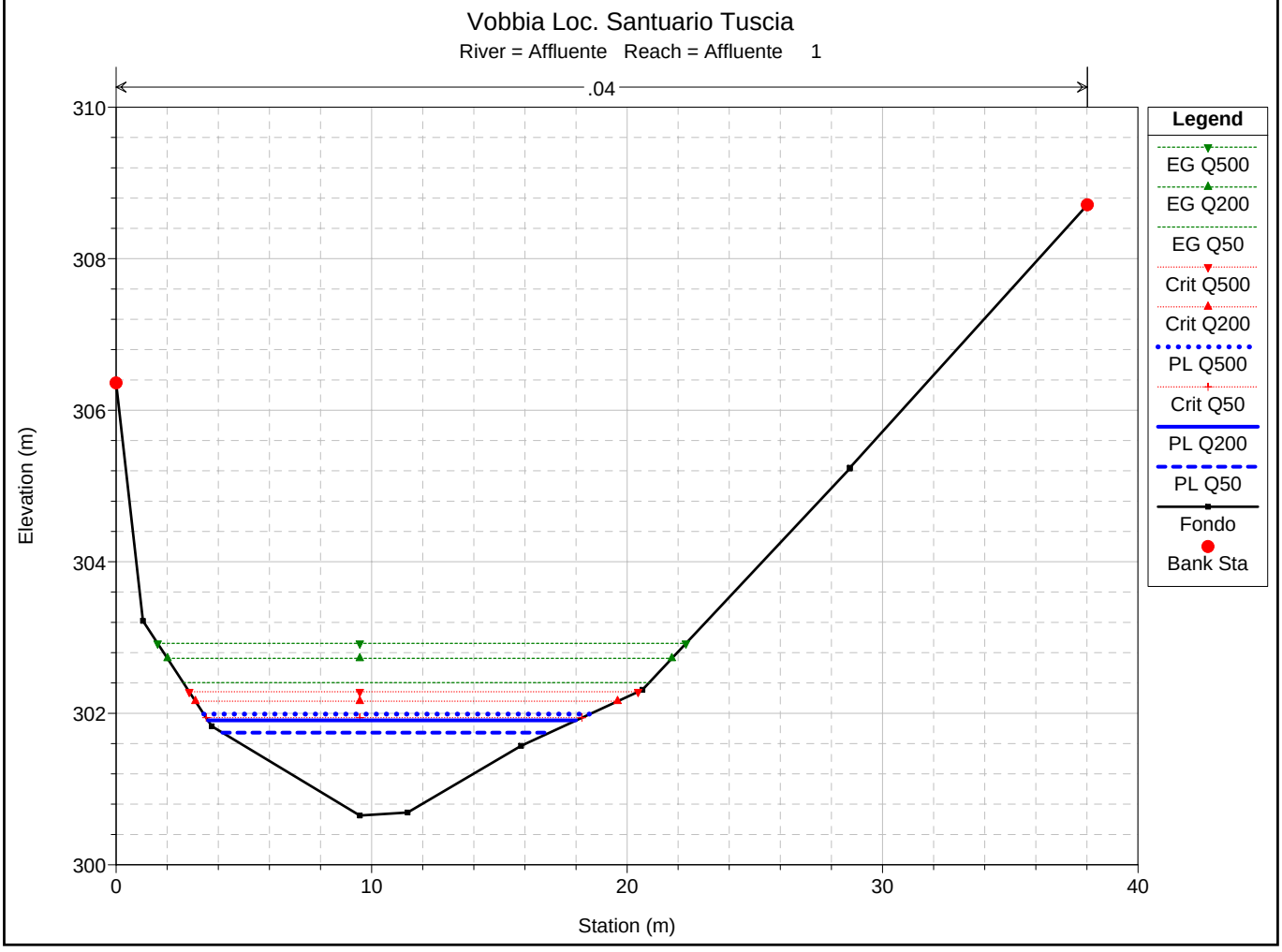

Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 4
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 3.1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 3
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 2.1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 2
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
Crit Q50
PL Q500
PL Q200
PL Q50
Fondo
Bank Sta


Vobbia Loc. Santuario Tuscia
River = Affluente Reach = Affluente 1
.04
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
Crit Q500
Crit Q200
PL Q500
Crit Q50
PL Q200
PL Q50
Fondo
Bank Sta

HEC-RAS Plan: VobbiaTuscia

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Vobbia	Vobbia	10 sez. fittizia	Q50	593.00	299.83	304.19	309.60	5.41	303.90	-0.29	304.49	306.31	0.016012	6.45	91.90	28.33	1.14
Vobbia	Vobbia	10 sez. fittizia	Q200	730.00	299.83	304.66	309.60	4.94	303.90	-0.76	305.04	307.10	0.016009	6.92	105.49	28.66	1.15
Vobbia	Vobbia	10 sez. fittizia	Q500	815.00	299.83	304.94	309.60	4.66	303.90	-1.04	305.34	307.57	0.016008	7.18	113.56	28.86	1.15
Vobbia	Vobbia	6 6	Q50	593.00	298.23	302.59	308.00	5.41	302.30	-0.29	302.89	304.71	0.016009	6.45	91.90	28.33	1.14
Vobbia	Vobbia	6 6	Q200	730.00	298.23	303.06	308.00	4.94	302.30	-0.76	303.43	305.50	0.016007	6.92	105.50	28.66	1.15
Vobbia	Vobbia	6 6	Q500	815.00	298.23	303.34	308.00	4.66	302.30	-1.04	303.74	305.97	0.016006	7.18	113.56	28.86	1.15
Vobbia	Vobbia	5 5	Q50	593.00	297.64	303.27	307.00	3.73	303.42	0.15		304.27	0.005956	4.44	133.45	34.68	0.72
Vobbia	Vobbia	5 5	Q200	730.00	297.64	303.76	307.00	3.24	303.42	-0.34		304.95	0.006321	4.84	150.77	35.60	0.75
Vobbia	Vobbia	5 5	Q500	815.00	297.64	304.04	307.00	2.96	303.42	-0.62		305.35	0.006511	5.07	160.79	35.93	0.76
Vobbia	Vobbia	4 4	Q50	593.00	297.56	302.18	306.85	4.67	302.50	0.32	302.18	303.74	0.012365	5.54	107.11	34.25	1.00
Vobbia	Vobbia	4 4	Q200	730.00	297.56	302.70	306.85	4.15	302.50	-0.20	302.70	304.41	0.012323	5.80	125.90	37.36	1.01
Vobbia	Vobbia	4 4	Q500	815.00	297.56	302.97	306.85	3.88	302.50	-0.47	302.97	304.80	0.012028	5.98	136.29	37.56	1.00
Vobbia	Vobbia	3 3	Q50	593.00	297.29	299.96	305.00	5.04	303.18	3.22	300.76	302.66	0.037123	7.29	81.34	42.42	1.68
Vobbia	Vobbia	3 3	Q200	730.00	297.29	300.24	305.00	4.76	303.18	2.94	301.18	303.35	0.036469	7.81	93.50	43.26	1.70
Vobbia	Vobbia	3 3	Q500	815.00	297.29	300.41	305.00	4.59	303.18	2.77	301.42	303.74	0.035945	8.08	100.86	43.77	1.70
Vobbia	Vobbia-valle	2 2	Q50	604.00	296.68	299.32	305.00	5.68	303.10	3.78	300.04	301.71	0.040155	6.85	88.22	54.14	1.71
Vobbia	Vobbia-valle	2 2	Q200	742.00	296.68	301.46	305.00	3.54	303.10	1.64		302.09	0.003968	3.52	210.84	60.61	0.60
Vobbia	Vobbia-valle	2 2	Q500	828.00	296.68	301.80	305.00	3.20	303.10	1.30		302.45	0.003712	3.58	231.53	61.64	0.59
Vobbia	Vobbia-valle	1 1	Q50	604.00	294.34	299.61	305.00	5.39	302.95	3.34	299.61	301.07	0.011923	5.34	113.01	39.21	1.01
Vobbia	Vobbia-valle	1 1	Q200	742.00	294.34	300.08	305.00	4.92	302.95	2.87	300.08	301.69	0.011497	5.62	132.04	41.25	1.00
Vobbia	Vobbia-valle	1 1	Q500	828.00	294.34	300.35	305.00	4.65	302.95	2.60	300.35	302.05	0.011296	5.78	143.36	42.35	1.00
Vobbia	Vobbia-valle	0 sez. fittizia	Q50	604.00	291.14	295.54	296.61	1.07	299.75	4.21	296.41	298.39	0.031433	7.48	80.78	35.24	1.58
Vobbia	Vobbia-valle	0 sez. fittizia	Q200	742.00	291.14	295.90	296.61	0.71	299.75	3.85	296.87	299.09	0.030775	7.91	93.77	36.89	1.58
Vobbia	Vobbia-valle	0 sez. fittizia	Q500	828.00	291.14	296.12	296.61	0.49	299.75	3.63	297.12	299.49	0.030340	8.14	101.68	37.86	1.59
Affluente	Affluente	8. 8	Q50	28.00	315.27	317.26	320.48	3.22	319.44	2.18	317.26	317.85	0.018503	3.41	8.22	6.97	1.00
Affluente	Affluente	8. 8	Q200	40.00	315.27	317.67	320.48	2.81	319.44	1.77	317.67	318.30	0.017907	3.51	11.40	9.11	1.00
Affluente	Affluente	8. 8	Q500	48.00	315.27	317.93	320.48	2.55	319.44	1.51	317.93	318.52	0.017693	3.41	14.06	11.91	1.00
Affluente	Affluente	7 7	Q50	28.00	311.44	312.18	315.76	3.58	314.46	2.28	312.48	313.29	0.130752	4.66	6.01	16.14	2.44
Affluente	Affluente	7 7	Q200	40.00	311.44	312.29	315.76	3.47	314.46	2.17	312.65	313.63	0.132997	5.13	7.80	18.39	2.51
Affluente	Affluente	7 7	Q500	48.00	311.44	312.35	315.76	3.41	314.46	2.11	312.74	313.83	0.133575	5.39	8.90	19.54	2.55
Affluente	Affluente	6.1 6.1	Q50	28.00	309.82	310.39	312.41	2.02	312.33	1.94	310.61	311.11	0.071337	3.75	7.46	17.58	1.84
Affluente	Affluente	6.1 6.1	Q200	40.00	309.82	310.50	312.41	1.91	312.33	1.83	310.78	311.42	0.070669	4.25	9.41	18.23	1.89
Affluente	Affluente	6.1 6.1	Q500	48.00	309.82	310.56	312.41	1.85	312.33	1.77	310.88	311.60	0.070055	4.52	10.62	18.62	1.91
Affluente	Affluente	6 6	Q50	28.00	308.95	309.25	312.41	3.16	312.33	3.08	309.62	310.99	0.288932	5.85	4.79	16.53	3.47
Affluente	Affluente	6 6	Q200	40.00	308.95	309.35	312.41	3.06	312.33	2.98	309.80	311.30	0.224829	6.19	6.46	16.89	3.20
Affluente	Affluente	6 6	Q500	48.00	308.95	309.41	312.41	3.00	312.33	2.92	309.90	311.49	0.198862	6.38	7.52	17.11	3.07
Affluente	Affluente	5 5	Q50	28.00	307.34	308.18	310.15	1.97	311.01	2.83	308.43	309.02	0.054788	4.04	6.93	11.45	1.66
Affluente	Affluente	5 5	Q200	40.00	307.34	308.34	310.15	1.81	311.01	2.67	308.66	309.40	0.053716	4.57	8.75	11.68	1.68
Affluente	Affluente	5 5	Q500	48.00	307.34	308.44	310.15	1.71	311.01	2.57	308.80	309.64	0.053358	4.86	9.87	11.81	1.70
Affluente	Affluente	4.1 4.1	Q50	28.00	307.11	307.78	310.15	2.37	310.10	2.32	307.98	308.48	0.050465	3.72	7.53	13.33	1.58
Affluente	Affluente	4.1 4.1	Q200	40.00	307.11	307.91	310.15	2.24	310.10	2.19	308.18	308.85	0.052390	4.30	9.31	13.51	1.65
Affluente	Affluente	4.1 4.1	Q500	48.00	307.11	307.99	310.15	2.16	310.10	2.11	308.31	309.08	0.053500	4.63	10.37	13.61	1.69

HEC-RAS Plan: VobbiaTuscia (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	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)	(m)	(m/m)	(m/s)	(m2)	(m)	
Affluente	Affluente	4 4	Q50	28.00	306.29	306.83	310.15	3.32	310.10	3.27	307.22	308.39	0.177740	5.52	5.07	12.98	2.82
Affluente	Affluente	4 4	Q200	40.00	306.29	306.96	310.15	3.19	310.10	3.14	307.43	308.75	0.144579	5.93	6.74	13.11	2.64
Affluente	Affluente	4 4	Q500	48.00	306.29	307.04	310.15	3.11	310.10	3.06	307.56	308.98	0.131914	6.18	7.77	13.19	2.57
Affluente	Affluente	3.1 3.1	Q50	28.00	305.26	305.79	311.48	5.69	309.48	3.69	305.97	306.40	0.060424	3.45	8.11	18.70	1.67
Affluente	Affluente	3.1 3.1	Q200	40.00	305.26	305.89	311.48	5.59	309.48	3.59	306.13	306.71	0.062756	4.01	9.98	18.82	1.76
Affluente	Affluente	3.1 3.1	Q500	48.00	305.26	305.95	311.48	5.53	309.48	3.53	306.23	306.91	0.064981	4.35	11.05	18.88	1.81
Affluente	Affluente	3 3	Q50	28.00	304.86	305.18	311.48	6.30	309.48	4.30	305.48	306.33	0.171255	4.76	5.88	18.47	2.69
Affluente	Affluente	3 3	Q200	40.00	304.86	305.28	311.48	6.20	309.48	4.20	305.64	306.65	0.143038	5.17	7.73	18.57	2.56
Affluente	Affluente	3 3	Q500	48.00	304.86	305.34	311.48	6.14	309.48	4.14	305.74	306.85	0.133313	5.43	8.83	18.63	2.52
Affluente	Affluente	2.1 2.1	Q50	28.00	304.71	305.09	311.48	6.39	309.48	4.39	305.33	305.92	0.099230	4.03	6.95	18.51	2.10
Affluente	Affluente	2.1 2.1	Q200	40.00	304.71	305.18	311.48	6.30	309.48	4.30	305.49	306.27	0.098493	4.62	8.66	18.60	2.16
Affluente	Affluente	2.1 2.1	Q500	48.00	304.71	305.24	311.48	6.24	309.48	4.24	305.59	306.48	0.097956	4.95	9.71	18.66	2.19
Affluente	Affluente	2 2	Q50	28.00	302.51	302.71	311.48	8.77	309.48	6.77	303.13	305.68	0.810711	7.63	3.67	18.27	5.44
Affluente	Affluente	2 2	Q200	40.00	302.51	302.78	311.48	8.70	309.48	6.70	303.30	306.03	0.591357	7.98	5.01	18.32	4.87
Affluente	Affluente	2 2	Q500	48.00	302.51	302.83	311.48	8.65	309.48	6.65	303.40	306.25	0.508229	8.19	5.86	18.35	4.62
Affluente	Affluente	1 1	Q50	28.00	300.65	301.74	306.36	4.62	308.71	6.97	301.94	302.40	0.041252	3.60	7.77	12.81	1.48
Affluente	Affluente	1 1	Q200	40.00	300.65	301.91	306.36	4.45	308.71	6.80	302.16	302.72	0.042925	4.01	9.98	14.41	1.54
Affluente	Affluente	1 1	Q500	48.00	300.65	301.99	306.36	4.37	308.71	6.72	302.28	302.92	0.044600	4.28	11.22	15.11	1.58

Verifiche puntuali

Indice

Verifiche puntuali

CODICE	CORSO D'ACQUA	Località
SN5	Senza nome	Bromia
SN4 – imb SN4 – sb	Senza nome	Bromia
SN3 – imb SN3 – sb	Senza nome	Bromia
SN2	Senza nome	Montoggio
CRS	Rio della Crosa	Casalino
LGN – imb LGN – sb	Loegnino	Casalino
CRO – imb CRO – m	Rio Croci	Casalino
REG	Rio Regiosi	Casella
ZUM	Rio Zumè	Ponte Savignone
SN	Senza nome	Ponte Savignone
LUB – imb LUB – sb	Rio Lubia	Ponte Savignone

Sezione: **SN5**

Bacino principale: Scrivia
Corso d'acqua: senza nome
Località: Montoggio

Descrizione: Imbocco copertura

Sezione idraulica di riferimento: A=0.112 Km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.4	2.4	3.4	3.4	4.1	4.1
Larghezza	[m]	B	1.77	1.77	1.77	1.77	1.77	1.77
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.028	0.028	0.028	0.028	0.028	0.028
Altezza pelo libero	[m]	Y	0.38	0.57	0.49	0.72	0.56	0.82
Quota pelo libero	[m s.l.m.]	Zp	0.38	0.57	0.49	0.72	0.56	0.82
Area	[m^2]	A	0.68	1.01	0.86	1.28	0.98	1.45
Perimetro bagnato	[m]	P	2.53	2.91	2.74	3.21	2.88	3.40
Raggio idraulico	[m]	R	0.27	0.35	0.31	0.40	0.34	0.42
Velocità media	[m/s]	U	3.54	2.37	3.94	2.66	4.17	2.83
Carico specifico	[m]	E	1.02	0.86	1.28	1.08	1.44	1.23
Carico totale	[m s.l.m.]	H	1.02	0.86	1.28	1.08	1.44	1.23
Numero di Froude	[-]	Fr	1.82	1.00	1.80	1.00	1.78	1.00
Altezza minima intradosso (*)	[m]	Ym	1.77	1.77	1.77	1.77	1.77	1.77
Quota minima intradosso	[m s.l.m.]	Zi	1.77	1.77	1.77	1.77	1.77	1.77
Franco	[m]	f	1.38	1.19	1.28	1.04	1.21	0.95
Verificata			**SI**	**SI**	**SI**	**SI**	**SI**	**SI**

(*) sezione circolare D=1.5m - Utilizzato sezione rettangolare equivalente

Sezione: **SN4 - imb**

Bacino principale: Scrivia
Corso d'acqua: senza nome
Località: Montoggio

Descrizione: Imbocco copertura

Sezione idraulica di riferimento: A=0.033 Km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	0.7	0.7	1.0	1.0	1.2	1.2
Larghezza	[m]	B	0.30	0.30	0.30	0.30	0.30	0.30
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.025	-	0.025	-	0.025	-
Altezza pelo libero	[m]	Y	0.95	0.82	1.33	1.04	1.58	1.18
Quota pelo libero	[m s.l.m.]	Zp	0.95	0.82	1.33	1.04	1.58	1.18
Area	[m^2]	A	0.29	0.25	0.40	0.31	0.47	0.35
Perimetro bagnato	[m]	P	2.21	1.94	2.96	2.38	3.45	2.65
Raggio idraulico	[m]	R	0.13	0.13	0.13	0.13	0.14	0.13
Velocità media	[m/s]	U	2.45	2.84	2.51	3.20	2.54	3.40
Carico specifico	[m]	E	1.26	1.23	1.65	1.56	1.90	1.77
Carico totale	[m s.l.m.]	H	1.26	1.23	1.65	1.56	1.90	1.77
Numero di Froude	[-]	Fr	0.80	1.00	0.70	1.00	0.65	1.00
Altezza minima intradosso (*)	[m]	Ym	0.23	0.23	0.23	0.23	0.23	0.23
Quota minima intradosso	[m s.l.m.]	Zi	0.23	0.23	0.23	0.23	0.23	0.23
Franco	[m]	f	-0.72	-0.59	-1.09	-0.81	-1.34	-0.94
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

(*) Utilizzato sezione rettangolare equivalente

Sezione: **SN4 - sb**

Bacino principale: Scrivia
Corso d'acqua: Affluente B
Località: Montoggio

Descrizione: Sbocco tombinatura

Sezione idraulica di riferimento: A=0.033 Km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	0.7	0.7	1.0	1.0	1.2	1.2
Larghezza	[m]	B	0.60	0.60	0.60	0.60	0.60	0.60
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.025	-	0.025	-	0.025	-
Altezza pelo libero	[m]	Y	0.40	0.52	0.53	0.66	0.61	0.74
Quota pelo libero	[m s.l.m.]	Zp	0.40	0.52	0.53	0.66	0.61	0.74
Area	[m^2]	A	0.24	0.31	0.32	0.39	0.37	0.44
Perimetro bagnato	[m]	P	1.39	1.64	1.65	1.91	1.82	2.08
Raggio idraulico	[m]	R	0.17	0.19	0.19	0.21	0.20	0.21
Velocità media	[m/s]	U	2.94	2.25	3.17	2.54	3.28	2.70
Carico specifico	[m]	E	0.84	0.78	1.04	0.98	1.16	1.11
Carico totale	[m s.l.m.]	H	0.84	0.78	1.04	0.98	1.16	1.11
Numero di Froude	[-]	Fr	1.49	1.00	1.39	1.00	1.34	1.00
Altezza minima intradosso (*)	[m]	Ym	0.28	0.28	0.28	0.28	0.28	0.28
Quota minima intradosso	[m s.l.m.]	Zi	0.28	0.28	0.28	0.28	0.28	0.28
Franco	[m]	f	-0.11	-0.23	-0.24	-0.37	-0.33	-0.46
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

(*) Utilizzato sezione rettangolare equivalente

Sezione: **SN3 - imb**

Bacino principale: Scrivia
Corso d'acqua: senza nome
Località: Montoggio

Descrizione: Imbocco copertura

Sezione idraulica di riferimento: A=0.137 Km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.9	2.9	4.2	4.2	5.1	5.1
Larghezza	[m]	B	1.00	1.00	1.00	1.00	1.00	1.00
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.025	-	0.025	-	0.025	-
Altezza pelo libero	[m]	Y	0.68	0.95	0.91	1.22	1.07	1.38
Quota pelo libero	[m s.l.m.]	Zp	0.68	0.95	0.91	1.22	1.07	1.38
Area	[m^2]	A	0.68	0.95	0.91	1.22	1.07	1.38
Perimetro bagnato	[m]	P	2.36	2.90	2.82	3.43	3.13	3.77
Raggio idraulico	[m]	R	0.29	0.33	0.32	0.35	0.34	0.37
Velocità media	[m/s]	U	4.27	3.05	4.61	3.45	4.78	3.68
Carico specifico	[m]	E	1.61	1.42	1.99	1.82	2.23	2.08
Carico totale	[m s.l.m.]	H	1.61	1.42	1.99	1.82	2.23	2.08
Numero di Froude	[-]	Fr	1.66	1.00	1.54	1.00	1.48	1.00
Altezza minima intradosso	[m]	Ym	2.23	2.23	2.23	2.23	2.23	2.23
Quota minima intradosso	[m s.l.m.]	Zi	2.23	2.23	2.23	2.23	2.23	2.23
Franco	[m]	f	1.55	1.28	1.32	1.02	1.17	0.85
Verificata			**SI**	**SI**	**SI**	**SI**	**SI**	**NO**

Sezione: **SN3 - sb**

Bacino principale: Scrivia
Corso d'acqua: senza nome
Località: Montoggio

Descrizione: Sbocco copertura

Sezione idraulica di riferimento: A=0.137 Km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.9	2.9	4.2	4.2	5.1	5.1
Larghezza	[m]	B	0.97	0.97	0.97	0.97	0.97	0.97
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.025	-	0.025	-	0.025	-
Altezza pelo libero	[m]	Y	0.72	0.97	0.96	1.24	1.13	1.41
Quota pelo libero	[m s.l.m.]	Zp	0.72	0.97	0.96	1.24	1.13	1.41
Area	[m^2]	A	0.69	0.94	0.93	1.20	1.10	1.37
Perimetro bagnato	[m]	P	2.40	2.91	2.90	3.45	3.23	3.79
Raggio idraulico	[m]	R	0.29	0.32	0.32	0.35	0.34	0.36
Velocità media	[m/s]	U	4.18	3.08	4.49	3.49	4.65	3.72
Carico specifico	[m]	E	1.60	1.45	1.99	1.86	2.23	2.12
Carico totale	[m s.l.m.]	H	1.60	1.45	1.99	1.86	2.23	2.12
Numero di Froude	[-]	Fr	1.58	1.00	1.46	1.00	1.39	1.00
Altezza minima intradosso (*)	[m]	Ym	0.97	0.97	0.97	0.97	0.97	0.97
Quota minima intradosso	[m s.l.m.]	Zi	0.97	0.97	0.97	0.97	0.97	0.97
Franco	[m]	f	0.25	0.00	0.01	-0.27	-0.16	-0.44
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

(*) Usato sezione rettangolare equivalente

Sezione: **SN2**

Bacino principale: Scrivia
Corso d'acqua: senza nome
Località: Montoggio

Descrizione: Imbocco Tombinatura

Sezione idraulica di riferimento: A = 0.13 Km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.8	2.8	4.0	4.0	4.8	4.8
Larghezza	[m]	B	1.20	1.20	1.20	1.20	1.20	1.20
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.04	0.04	0.04	0.04	0.04	0.04
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.040	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.96	0.82	1.28	1.04	1.49	1.18
Quota pelo libero	[m s.l.m.]	Zp	0.96	0.82	1.28	1.04	1.49	1.18
Area	[m^2]	A	1.15	0.99	1.54	1.25	1.79	1.41
Perimetro bagnato	[m]	P	3.12	2.84	3.76	3.28	4.18	3.55
Raggio idraulico	[m]	R	0.37	0.35	0.41	0.38	0.43	0.40
Velocità media	[m/s]	U	2.43	2.84	2.60	3.20	2.68	3.40
Carico specifico	[m]	E	1.26	1.23	1.63	1.56	1.86	1.77
Carico totale	[m s.l.m.]	H	1.26	1.23	1.63	1.56	1.86	1.77
Numero di Froude	[-]	Fr	0.79	1.00	0.73	1.00	0.70	1.00
Altezza minima intradosso	[m]	Ym	0.70	0.70	0.70	0.70	0.70	0.70
Quota minima intradosso	[m s.l.m.]	Zi	0.70	0.70	0.70	0.70	0.70	0.70
Franco	[m]	f	-0.26	-0.12	-0.58	-0.34	-0.79	-0.48
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **CRS**

Bacino principale: Scrivia
Corso d'acqua: Rio della Crosa
Località: Casalino

Descrizione: Imbocco copertura finale

Sezione idraulica di riferimento: A=0.151 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	3.2	3.2	4.6	4.6	5.5	5.5
Larghezza	[m]	B	1.50	1.50	1.50	1.50	1.50	1.50
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.044	0.04	0.04	0.04	0.04	0.04
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.040	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.77	0.77	1.02	0.99	1.18	1.11
Quota pelo libero	[m s.l.m.]	Zp	0.77	0.77	1.02	0.99	1.18	1.11
Area	[m^2]	A	1.16	1.16	1.53	1.48	1.77	1.67
Perimetro bagnato	[m]	P	3.05	3.05	3.54	3.47	3.85	3.72
Raggio idraulico	[m]	R	0.38	0.38	0.43	0.43	0.46	0.45
Velocità media	[m/s]	U	2.76	2.76	3.00	3.11	3.12	3.30
Carico specifico	[m]	E	1.16	1.16	1.48	1.48	1.67	1.67
Carico totale	[m s.l.m.]	H	1.16	1.16	1.48	1.48	1.67	1.67
Numero di Froude	[-]	Fr	1.00	1.00	0.95	1.00	0.92	1.00
Altezza minima intradosso	[m]	Ym	1.80	1.80	1.80	1.80	1.80	1.80
Quota minima intradosso	[m s.l.m.]	Zi	2.20	2.20	2.20	2.20	2.20	2.20
Franco	[m]	f	1.03	1.03	0.78	0.81	0.62	0.69
Verificata			**SI**	**SI**	**NO**	**NO**	**NO**	**NO**

Sezione: **LGN - imb**

Bacino principale: Scrivia
Corso d'acqua: Loegnino
Località: Casalino

Descrizione: Imbocco copertura finale

Sezione idraulica di riferimento: A=0.096 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.0	2.0	2.9	2.9	3.5	3.5
Larghezza	[m]	B	1.30	1.30	1.30	1.30	1.30	1.30
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.08	0.08	0.08	0.08	0.08	0.08
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.49	0.62	0.65	0.80	0.75	0.90
Quota pelo libero	[m s.l.m.]	Zp	0.49	0.62	0.65	0.80	0.75	0.90
Area	[m^2]	A	0.64	0.81	0.84	1.04	0.97	1.18
Perimetro bagnato	[m]	P	2.29	2.55	2.60	2.90	2.80	3.11
Raggio idraulico	[m]	R	0.28	0.32	0.32	0.36	0.35	0.38
Velocità media	[m/s]	U	3.12	2.47	3.44	2.80	3.60	2.98
Carico specifico	[m]	E	0.99	0.93	1.25	1.20	1.41	1.36
Carico totale	[m s.l.m.]	H	0.99	0.93	1.25	1.20	1.41	1.36
Numero di Froude	[-]	Fr	1.42	1.00	1.36	1.00	1.33	1.00
Altezza minima intradosso	[m]	Ym	1.53	1.53	1.53	1.53	1.53	1.53
Quota minima intradosso	[m s.l.m.]	Zi	1.53	1.53	1.53	1.53	1.53	1.53
Franco	[m]	f	1.04	0.91	0.88	0.74	0.78	0.63
Verificata			**SI**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **LGN - Sb**

Bacino principale: Scirvia
Corso d'acqua: Loegnino
Località: Casalino

Descrizione: Sbocco copertura finale
sezione circolare D=1 m (fatto come sez. rettangolare equivalente)

Sezione idraulica di riferimento: A=0.096 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.0	2.0	2.9	2.9	3.5	3.5
Larghezza	[m]	B	0.89	0.89	0.89	0.89	0.89	0.89
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.08	0.08	0.08	0.08	0.08	0.08
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.02	-	0.020	-	0.020	-
Altezza pelo libero	[m]	Y	0.44	0.80	0.58	1.03	0.67	1.17
Quota pelo libero	[m s.l.m.]	Zp	0.44	0.80	0.58	1.03	0.67	1.17
Area	[m^2]	A	0.39	0.71	0.51	0.91	0.60	1.03
Perimetro bagnato	[m]	P	1.76	2.49	2.05	2.95	2.23	3.22
Raggio idraulico	[m]	R	0.22	0.29	0.25	0.31	0.27	0.32
Velocità media	[m/s]	U	5.16	2.81	5.63	3.18	5.87	3.38
Carico specifico	[m]	E	1.79	1.21	2.20	1.54	2.43	1.75
Carico totale	[m s.l.m.]	H	1.79	1.21	2.20	1.54	2.43	1.75
Numero di Froude	[-]	Fr	2.49	1.00	2.36	1.00	2.28	1.00
Altezza minima intradosso (*)	[m]	Ym	0.89	0.89	0.89	0.89	0.89	0.89
Quota minima intradosso	[m s.l.m.]	Zi	0.89	0.89	0.89	0.89	0.89	0.89
Franco	[m]	f	0.45	0.08	0.30	-0.14	0.21	-0.28
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

(*) sezione circolare D=1 m - Utilizzato sez. rettangolare equivalente

Sezione: **LGN - m**

Bacino principale: Scrivia
Corso d'acqua: Loegnino
Località: Casalino

Descrizione: sezione a monte della tombinatura

Sezione idraulica di riferimento: A=0.096 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.0	2.0	2.9	2.9	3.5	3.5
Larghezza	[m]	B	1.15	1.15	1.15	1.15	1.15	1.15
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.08	0.08	0.08	0.08	0.08	0.08
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.56	0.68	0.74	0.87	0.85	0.98
Quota pelo libero	[m s.l.m.]	Zp	0.56	0.68	0.74	0.87	0.85	0.98
Area	[m^2]	A	0.64	0.78	0.85	1.00	0.98	1.13
Perimetro bagnato	[m]	P	2.26	2.50	2.62	2.88	2.86	3.11
Raggio idraulico	[m]	R	0.28	0.31	0.32	0.35	0.34	0.36
Velocità media	[m/s]	U	3.13	2.57	3.42	2.91	3.57	3.10
Carico specifico	[m]	E	1.06	1.01	1.33	1.30	1.50	1.47
Carico totale	[m s.l.m.]	H	1.06	1.01	1.33	1.30	1.50	1.47
Numero di Froude	[-]	Fr	1.34	1.00	1.27	1.00	1.23	1.00
Altezza minima intradosso	[m]	Ym	1.10	1.10	1.10	1.10	1.10	1.10
Quota minima intradosso	[m s.l.m.]	Zi	1.10	1.10	1.10	1.10	1.10	1.10
Franco	[m]	f	0.54	0.42	0.36	0.23	0.25	0.12
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **CRO - imb**

Bacino principale: Scrivia
Corso d'acqua: Rio Croci
Località: Casalino

Descrizione: Imbocco copertura finale

Sezione idraulica di riferimento: A=0.179 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	3.8	3.8	5.5	5.5	6.6	6.6
Larghezza	[m]	B	1.30	1.30	1.30	1.30	1.30	1.30
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.91	0.96	1.23	1.22	1.43	1.38
Quota pelo libero	[m s.l.m.]	Zp	0.91	0.96	1.23	1.22	1.43	1.38
Area	[m^2]	A	1.19	1.24	1.60	1.59	1.85	1.79
Perimetro bagnato	[m]	P	3.13	3.21	3.76	3.74	4.15	4.06
Raggio idraulico	[m]	R	0.38	0.39	0.43	0.42	0.45	0.44
Velocità media	[m/s]	U	3.20	3.06	3.44	3.46	3.56	3.68
Carico specifico	[m]	E	1.44	1.43	1.83	1.83	2.07	2.07
Carico totale	[m s.l.m.]	H	1.44	1.43	1.83	1.83	2.07	2.07
Numero di Froude	[-]	Fr	1.07	1.00	0.99	1.00	0.95	1.00
Altezza minima intradosso	[m]	Ym	1.53	1.53	1.53	1.53	1.53	1.53
Quota minima intradosso	[m s.l.m.]	Zi	1.53	1.53	1.53	1.53	1.53	1.53
Franco	[m]	f	0.62	0.58	0.30	0.31	0.11	0.15
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **CRO - m**

Bacino principale: Scrivia
Corso d'acqua: Rio Croci
Località: Casalino

Descrizione: sezione a monte della tombinatura

Sezione idraulica di riferimento: A=0.179 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	3.8	3.8	5.5	5.5	6.6	6.6
Larghezza	[m]	B	2.50	2.50	2.50	2.50	2.50	2.50
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.50	0.62	0.64	0.79	0.72	0.89
Quota pelo libero	[m s.l.m.]	Zp	0.50	0.62	0.64	0.79	0.72	0.89
Area	[m^2]	A	1.24	1.54	1.60	1.98	1.81	2.23
Perimetro bagnato	[m]	P	3.49	3.74	3.78	4.08	3.95	4.28
Raggio idraulico	[m]	R	0.35	0.41	0.42	0.48	0.46	0.52
Velocità media	[m/s]	U	3.07	2.46	3.45	2.78	3.64	2.96
Carico specifico	[m]	E	0.98	0.93	1.24	1.19	1.40	1.34
Carico totale	[m s.l.m.]	H	0.98	0.93	1.24	1.19	1.40	1.34
Numero di Froude	[-]	Fr	1.39	1.00	1.38	1.00	1.37	1.00
Altezza minima intradosso	[m]	Ym	1.40	1.40	1.40	1.40	1.40	1.40
Quota minima intradosso	[m s.l.m.]	Zi	1.40	1.40	1.40	1.40	1.40	1.40
Franco	[m]	f	0.90	0.78	0.76	0.61	0.68	0.51
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **REG**

Bacino principale: Scrivia
Corso d'acqua: Rio Regiosi
Località: Casella

Descrizione: Sbocco Tombinatura

Sezione idraulica di riferimento: A= 0.126 Km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.7	2.7	3.9	3.9	4.6	4.6
Larghezza	[m]	B	1.00	1.00	1.00	1.00	1.00	1.00
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.07	0.07	0.07	0.07	0.07	0.07
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.040	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.88	0.91	1.18	1.16	1.36	1.29
Quota pelo libero	[m s.l.m.]	Zp	0.88	0.91	1.18	1.16	1.36	1.29
Area	[m^2]	A	0.88	0.91	1.18	1.16	1.36	1.29
Perimetro bagnato	[m]	P	2.75	2.81	3.37	3.31	3.72	3.58
Raggio idraulico	[m]	R	0.32	0.32	0.35	0.35	0.37	0.36
Velocità media	[m/s]	U	3.08	2.98	3.29	3.37	3.38	3.56
Carico specifico	[m]	E	1.36	1.36	1.74	1.74	1.94	1.94
Carico totale	[m s.l.m.]	H	1.36	1.36	1.74	1.74	1.94	1.94
Numero di Froude	[-]	Fr	1.05	1.00	0.97	1.00	0.93	1.00
Altezza minima intradosso (*)	[m]	Ym	0.75	0.75	0.75	0.75	0.75	0.75
Quota minima intradosso	[m s.l.m.]	Zi	0.75	0.75	0.75	0.75	0.75	0.75
Franco	[m]	f	-0.13	-0.16	-0.43	-0.41	-0.61	-0.54
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

(*) sezione circolare D= 1 m luce libera al deflusso 75 cm - E' stata considerata una sezione rettangolare equivalente di 0.75x1m

Sezione: **ZUM**

Bacino principale: T. Scrivia
Corso d'acqua: Rio Zumè
Località: Ponte Savignone

Descrizione: Imbocco copertura finale

Sezione idraulica di riferimento: A=0.36 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	6.7	6.7	3.6	9.7	4.3	11.7
Larghezza	[m]	B	1.00	1.00	1.00	1.00	1.00	1.00
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.07	0.07	0.07	0.07	0.07	0.07
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	1.92	1.66	1.14	2.12	1.32	2.41
Quota pelo libero	[m s.l.m.]	Zp	1.92	1.66	1.14	2.12	1.32	2.41
Area	[m^2]	A	1.92	1.66	1.14	2.12	1.32	2.41
Perimetro bagnato	[m]	P	4.84	4.32	3.28	5.25	3.63	5.82
Raggio idraulico	[m]	R	0.40	0.38	0.35	0.40	0.36	0.41
Velocità media	[m/s]	U	3.49	4.04	3.20	4.57	3.29	4.86
Carico specifico	[m]	E	2.54	2.49	1.66	3.19	1.87	3.61
Carico totale	[m s.l.m.]	H	2.54	2.49	1.66	3.19	1.87	3.61
Numero di Froude	[-]	Fr	0.81	1.00	0.96	1.00	0.92	1.00
Altezza minima intradosso	[m]	Ym	2.10	2.10	2.10	2.10	2.10	2.10
Quota minima intradosso	[m s.l.m.]	Zi	2.10	2.10	2.10	2.10	2.10	2.10
Franco	[m]	f	0.18	0.44	0.96	-0.02	0.78	-0.31
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **SN**

Bacino principale: T. Scrivia
Corso d'acqua: Rio Senza Nome
Località: Ponte Savignone

Descrizione: Imbocco copertura finale

Sezione idraulica di riferimento: A=0.139 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	2.9	2.9	4.3	4.3	5.1	5.1
Larghezza	[m]	B	1.00	1.00	1.00	1.00	1.00	1.00
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.06	0.06	0.06	0.06	0.06	0.06
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.98	0.95	1.36	1.24	1.58	1.38
Quota pelo libero	[m s.l.m.]	Zp	0.98	0.95	1.36	1.24	1.58	1.38
Area	[m^2]	A	0.98	0.95	1.36	1.24	1.58	1.38
Perimetro bagnato	[m]	P	2.96	2.90	3.72	3.47	4.15	3.77
Raggio idraulico	[m]	R	0.33	0.33	0.37	0.36	0.38	0.37
Velocità media	[m/s]	U	2.96	3.05	3.16	3.48	3.24	3.68
Carico specifico	[m]	E	1.43	1.42	1.87	1.85	2.11	2.08
Carico totale	[m s.l.m.]	H	1.43	1.42	1.87	1.85	2.11	2.08
Numero di Froude	[-]	Fr	0.95	1.00	0.86	1.00	0.82	1.00
Altezza minima intradosso	[m]	Ym	0.70	0.70	0.70	0.70	0.70	0.70
Quota minima intradosso	[m s.l.m.]	Zi	0.70	0.70	0.70	0.70	0.70	0.70
Franco	[m]	f	-0.28	-0.25	-0.66	-0.54	-0.88	-0.68
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **LUB-imb**

Bacino principale: T. Scrivia
Corso d'acqua: Rio Lubia
Località: Ponte Savignone

Descrizione: Imbocco copertura finale

Sezione idraulica di riferimento: A=0.217 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	4.0	4.0	5.8	5.8	7.0	7.0
Larghezza	[m]	B	1.60	1.60	1.60	1.60	1.60	1.60
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.09	0.09	0.09	0.09	0.09	0.09
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.67	0.86	0.89	1.10	1.02	1.25
Quota pelo libero	[m s.l.m.]	Zp	0.67	0.86	0.89	1.10	1.02	1.25
Area	[m^2]	A	1.07	1.38	1.42	1.76	1.64	2.00
Perimetro bagnato	[m]	P	2.94	3.32	3.37	3.80	3.65	4.10
Raggio idraulico	[m]	R	0.37	0.41	0.42	0.46	0.45	0.49
Velocità media	[m/s]	U	3.72	2.91	4.09	3.29	4.27	3.50
Carico specifico	[m]	E	1.38	1.29	1.74	1.65	1.95	1.87
Carico totale	[m s.l.m.]	H	1.38	1.29	1.74	1.65	1.95	1.87
Numero di Froude	[-]	Fr	1.45	1.00	1.39	1.00	1.35	1.00
Altezza minima intradosso	[m]	Ym	1.40	1.40	1.40	1.40	1.40	1.40
Quota minima intradosso	[m s.l.m.]	Zi	1.40	1.40	1.40	1.40	1.40	1.40
Franco	[m]	f	0.73	0.54	0.51	0.30	0.38	0.15
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Sezione: **LUB-sb**

Bacino principale: T. Scrivia
Corso d'acqua: Rio Lubia
Località: Ponte Savignone

Descrizione: Sbocco copertura finale

Sezione idraulica di riferimento: A=0.217 km²

Periodo di ritorno	[anni]	T	50		200		500	
Condizioni di moto			uniforme	critiche	uniforme	critiche	uniforme	critiche
Portata	[m^3/s]	Q	4.0	4.0	5.8	5.8	7.0	7.0
Larghezza	[m]	B	2.00	2.00	2.00	2.00	2.00	2.00
Quota media fondo	[m s.l.m.]	Zf	0.00	0.00	0.00	0.00	0.00	0.00
Pendenza media fondo	[m/m]	i	0.09	0.09	0.09	0.09	0.09	0.09
Coefficiente di scabrezza	[$m^{-1/3}$ s]	n	0.04	-	0.040	-	0.040	-
Altezza pelo libero	[m]	Y	0.55	0.74	0.71	0.95	0.82	1.08
Quota pelo libero	[m s.l.m.]	Zp	0.55	0.74	0.71	0.95	0.82	1.08
Area	[m^2]	A	1.10	1.48	1.43	1.90	1.64	2.15
Perimetro bagnato	[m]	P	3.10	3.48	3.43	3.90	3.64	4.15
Raggio idraulico	[m]	R	0.35	0.43	0.42	0.49	0.45	0.52
Velocità media	[m/s]	U	3.65	2.70	4.06	3.05	4.28	3.25
Carico specifico	[m]	E	1.23	1.11	1.56	1.42	1.75	1.62
Carico totale	[m s.l.m.]	H	1.23	1.11	1.56	1.42	1.75	1.62
Numero di Froude	[-]	Fr	1.57	1.00	1.54	1.00	1.51	1.00
Altezza minima intradosso	[m]	Ym	1.00	1.00	1.00	1.00	1.00	1.00
Quota minima intradosso	[m s.l.m.]	Zi	1.00	1.00	1.00	1.00	1.00	1.00
Franco	[m]	f	0.45	0.26	0.29	0.05	0.18	-0.08
Verificata			**NO**	**NO**	**NO**	**NO**	**NO**	**NO**