

AUTORITA' DI BACINO
DI RILIEVO REGIONALE



PROVINCIA
DI SAVONA

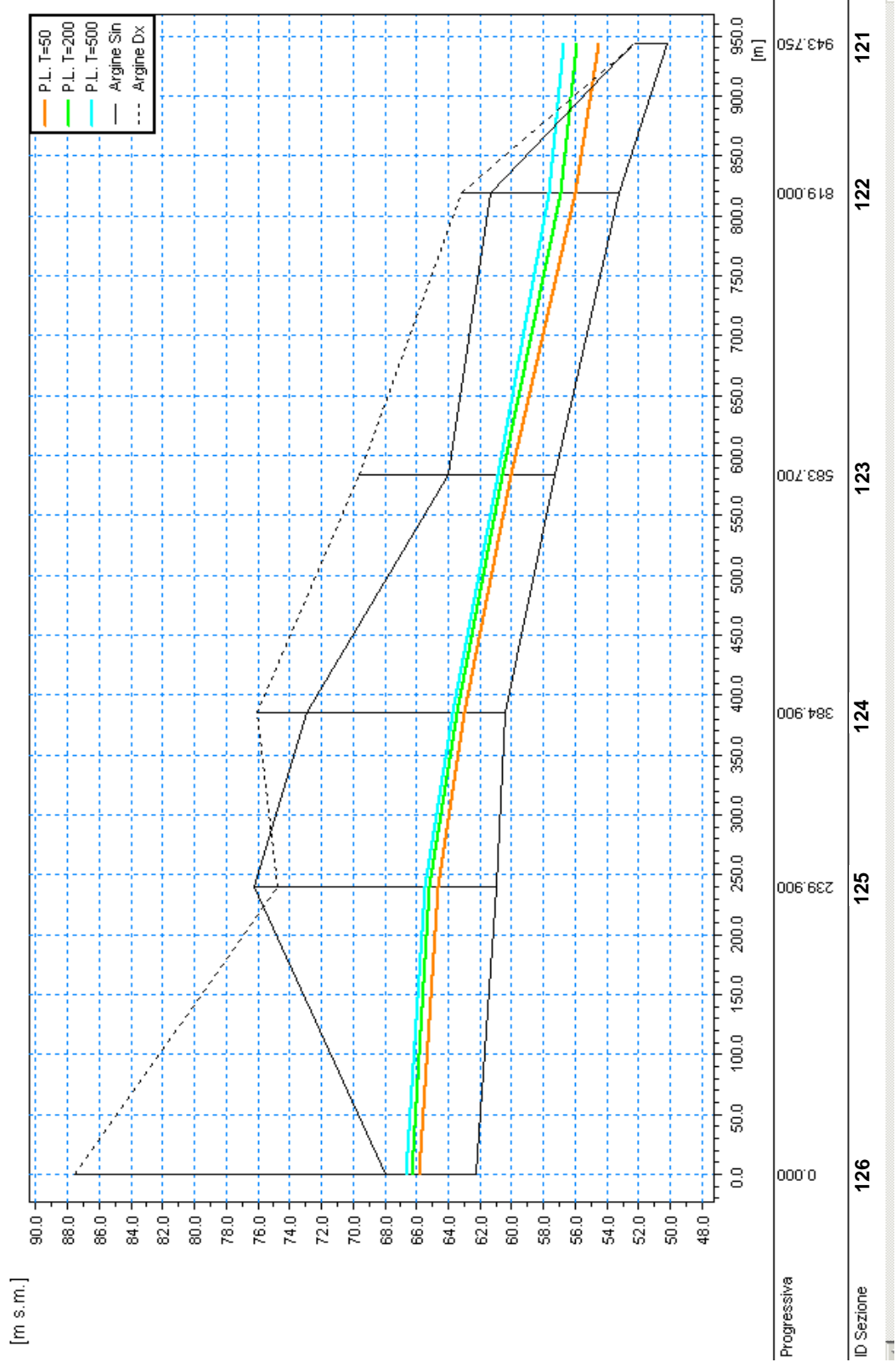
PIANO DI BACINO QUILIANO

Piano stralcio per la tutela dal rischio idrogeologico
di cui all'art.1, comma 1 del D.L. 11/06/1998 n.180,
convertito in legge 03/08/1998 n.267 e s.m.

VERIFICHE IDRAULICHE

**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

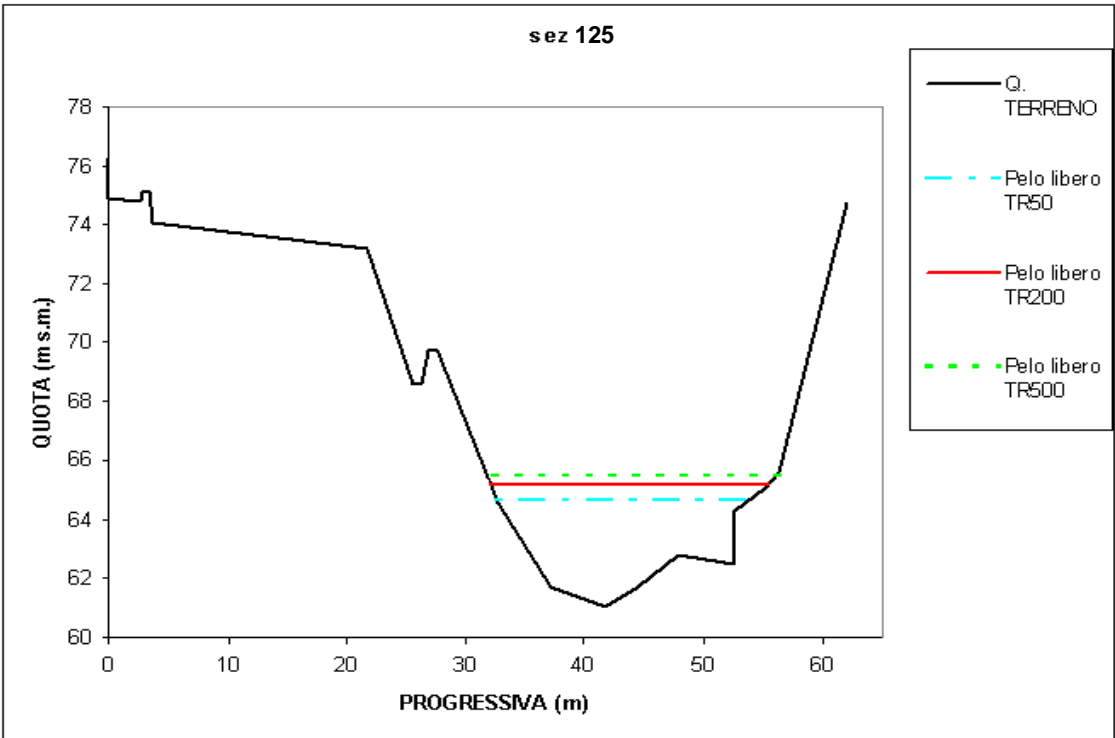
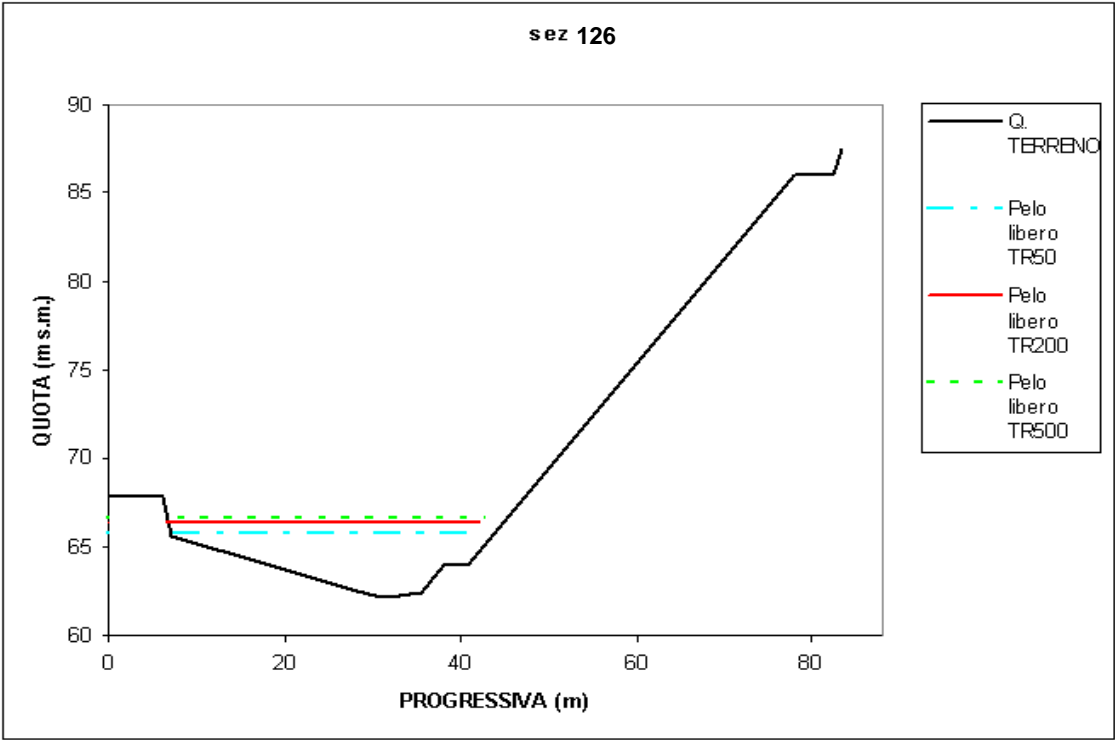
T. TREXENDA

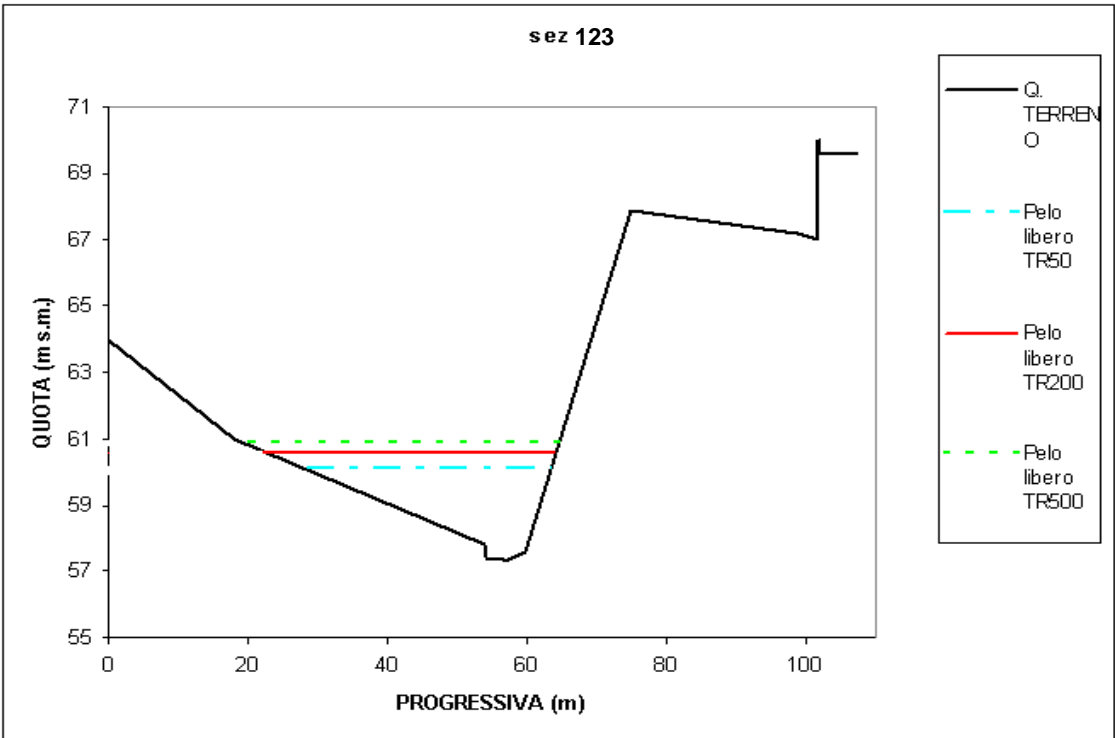
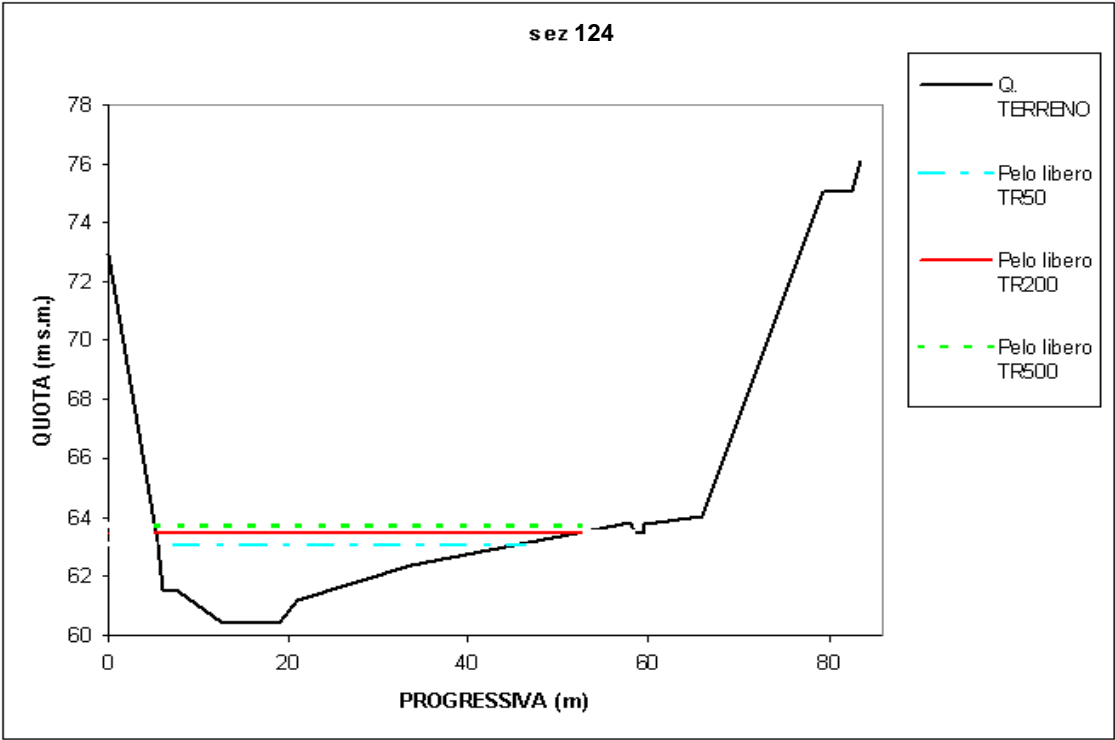


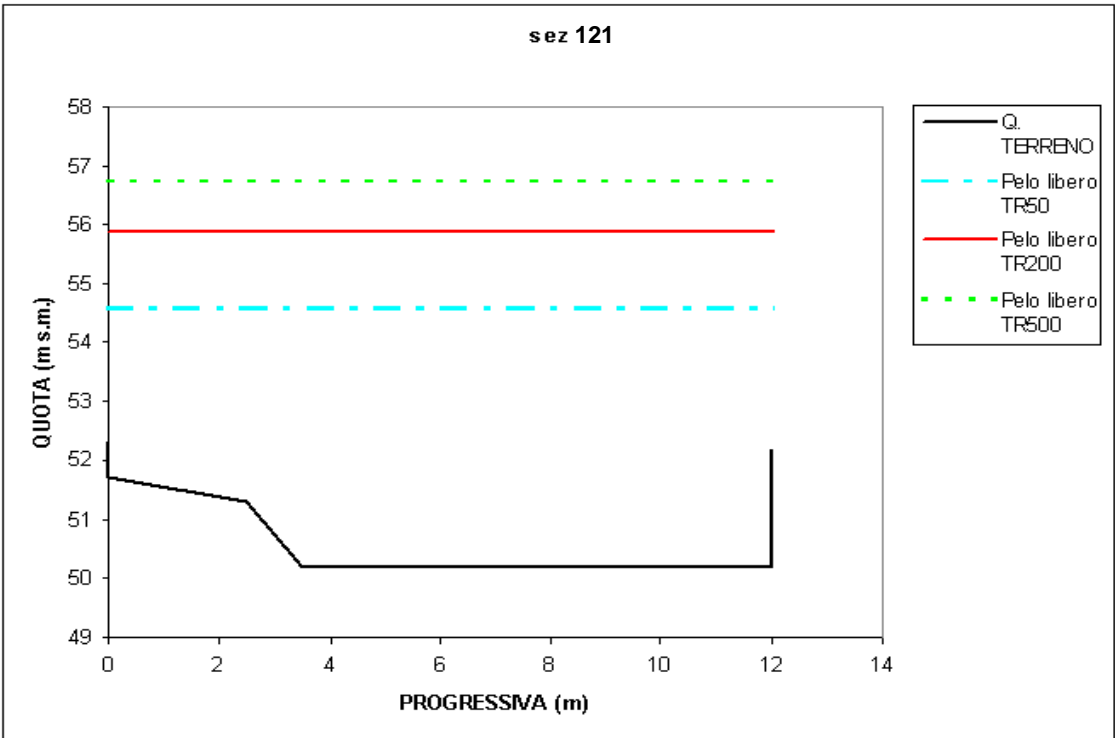
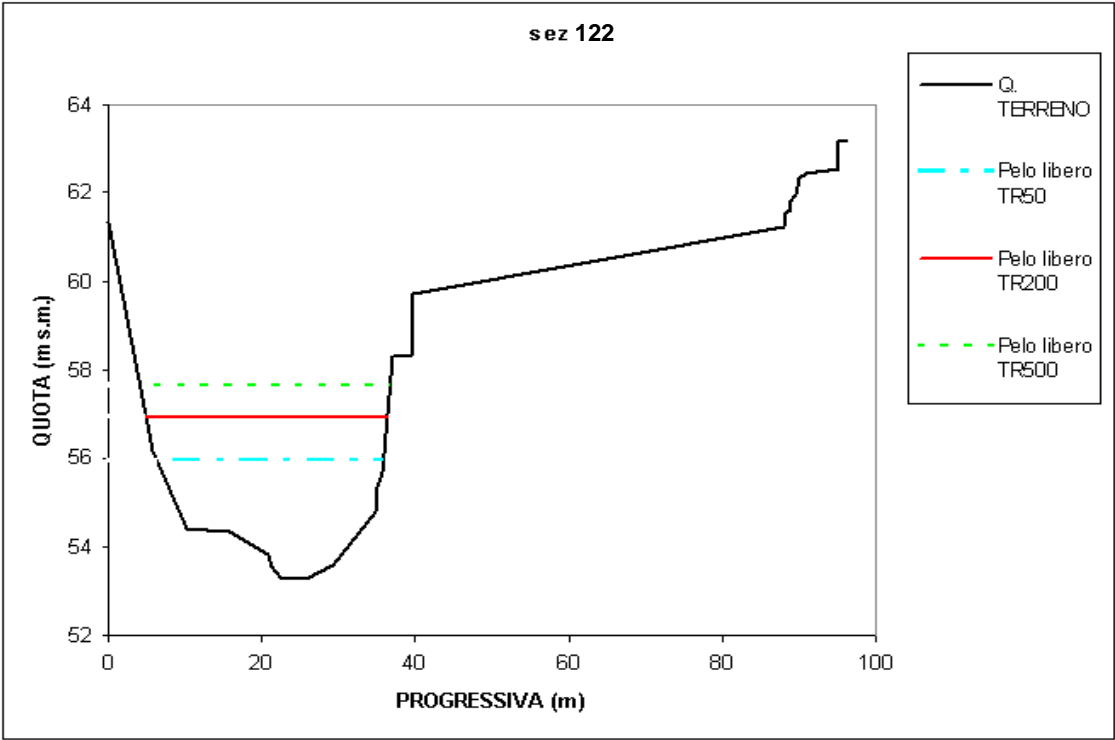
**GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI**

T. TREXENDA

dalla sez.	126
alla sez.	121







**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

T. TREXENDA

TORRENTE TREXENDA – PROFILO DI CORRENTE PER T= 50 ANNI							
ID Sez.	Progr. (m)	Quota fondo (m s.m.)	P.L. (m s.m.)	A (m ²)	b (m)	v (m/s)	Fr (-)
126	0.00	62.23	65.79	77.40	37.15	3.13	0.69
125	239.90	61.00	64.62	48.69	21.04	4.97	1.04
124	384.90	60.39	63.03	53.53	39.39	4.52	1.24
123	583.70	57.30	60.07	49.43	35.16	4.90	1.32
122	819.00	53.26	55.96	56.69	28.20	4.27	0.96
121	943.75	50.20	54.59	48.84	12.00	4.95	0.78

Torrente Trexenda - Risultati delle simulazioni idrauliche – T = 50 anni

TORRENTE TREXENDA – PROFILO DI CORRENTE PER T= 200 ANNI							
ID Sez.	Progr. (m)	Quota fondo (m s.m.)	P.L. (m s.m.)	A (m ²)	b (m)	v (m/s)	Fr (-)
126	0.00	62.23	66.33	98.13	37.15	3.57	0.71
125	239.90	61.00	65.18	60.97	21.04	5.74	1.13
124	384.90	60.39	63.47	71.83	39.39	4.87	1.26
123	583.70	57.30	60.56	68.50	35.16	5.11	1.27
122	819.00	53.26	56.92	85.62	28.20	4.09	0.78
121	943.75	50.20	55.88	64.32	12.00	5.44	0.75

Torrente Trexenda -Risultati delle simulazioni idrauliche – T = 200 anni

TORRENTE TREXENDA – PROFILO DI CORRENTE PER T= 500 ANNI							
ID Sez.	Progr. (m)	Quota fondo (m s.m.)	P.L. (m s.m.)	A (m ²)	b (m)	v (m/s)	Fr (-)
126	0.00	62.23	66.66	110.99	38.92	3.90	0.82
125	239.90	61.00	65.50	68.50	24.31	6.16	1.17
124	384.90	60.39	63.71	84.37	52.90	5.00	1.26
123	583.70	57.30	60.89	82.38	45.69	5.12	1.22
122	819.00	53.26	57.66	108.29	32.16	3.90	0.68
121	943.75	50.20	56.68	73.95	12.00	5.71	0.73

Torrente Trexenda -Risultati delle simulazioni idrauliche – T = 500 anni

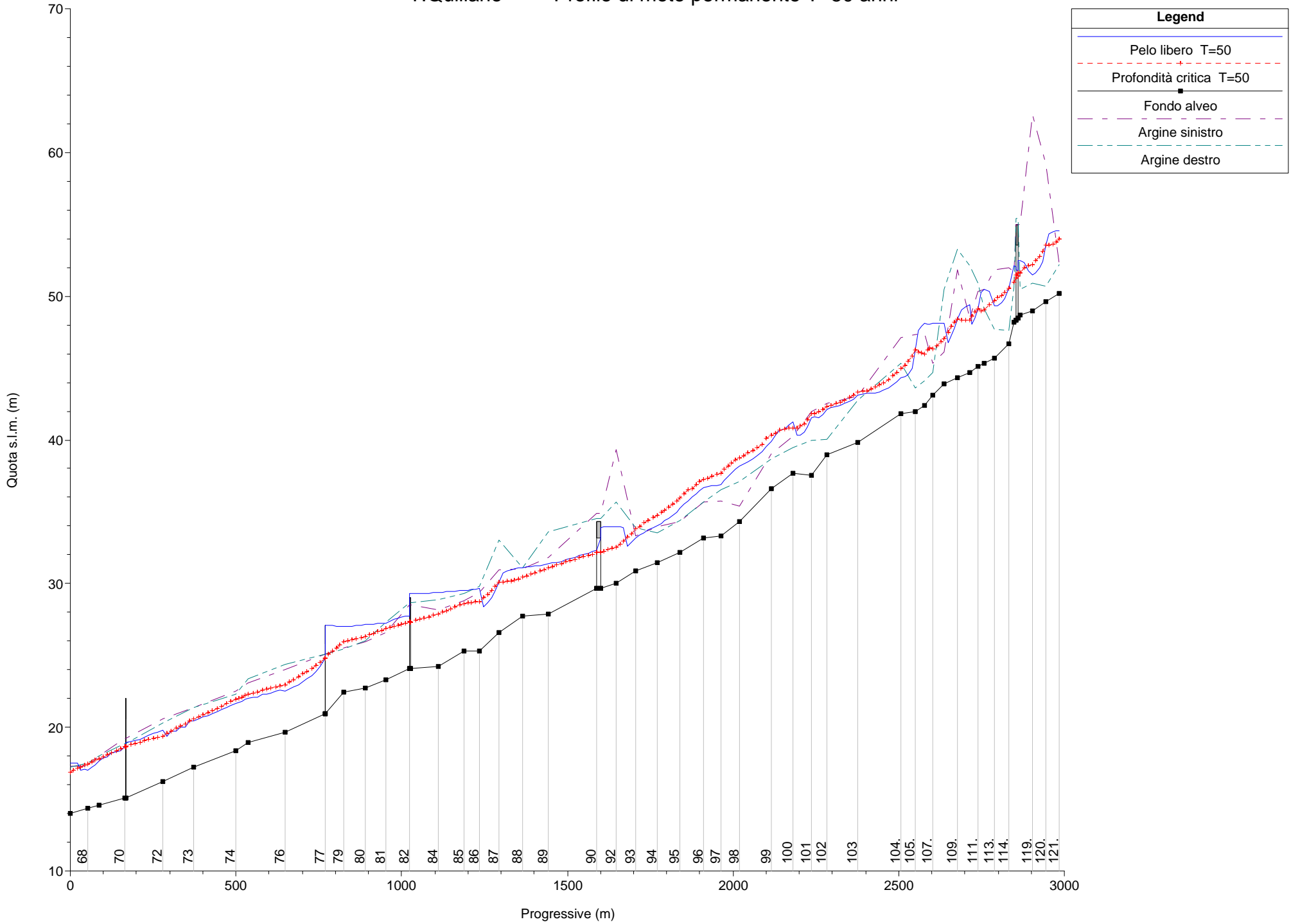
**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

QUILIANO stato attuale al 31/01/01

- **Loc. Becchi**
- **T. Trexenda**
- **Quiliano monte**
- **Quiliano foce**

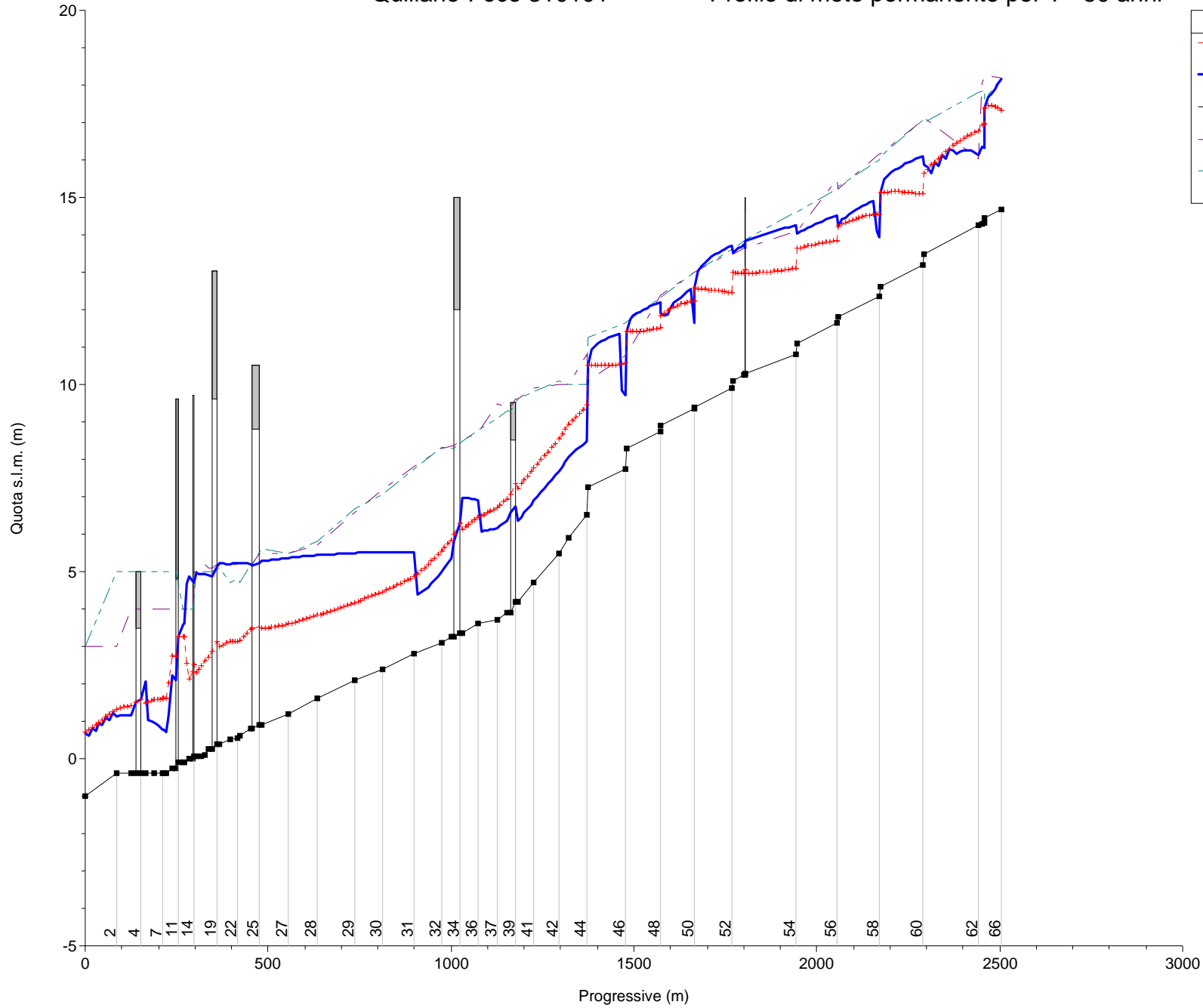
Dalle analisi effettuate con la configurazione dell'alveo allo stato attuale (31/01/01) è derivata la redazione delle Tavv. 9 (fasce di inondabilità), 11 (rischio idraulico) e 14 (aree inondabili).

T.Quiliano Profilo di moto permanente T=50 anni



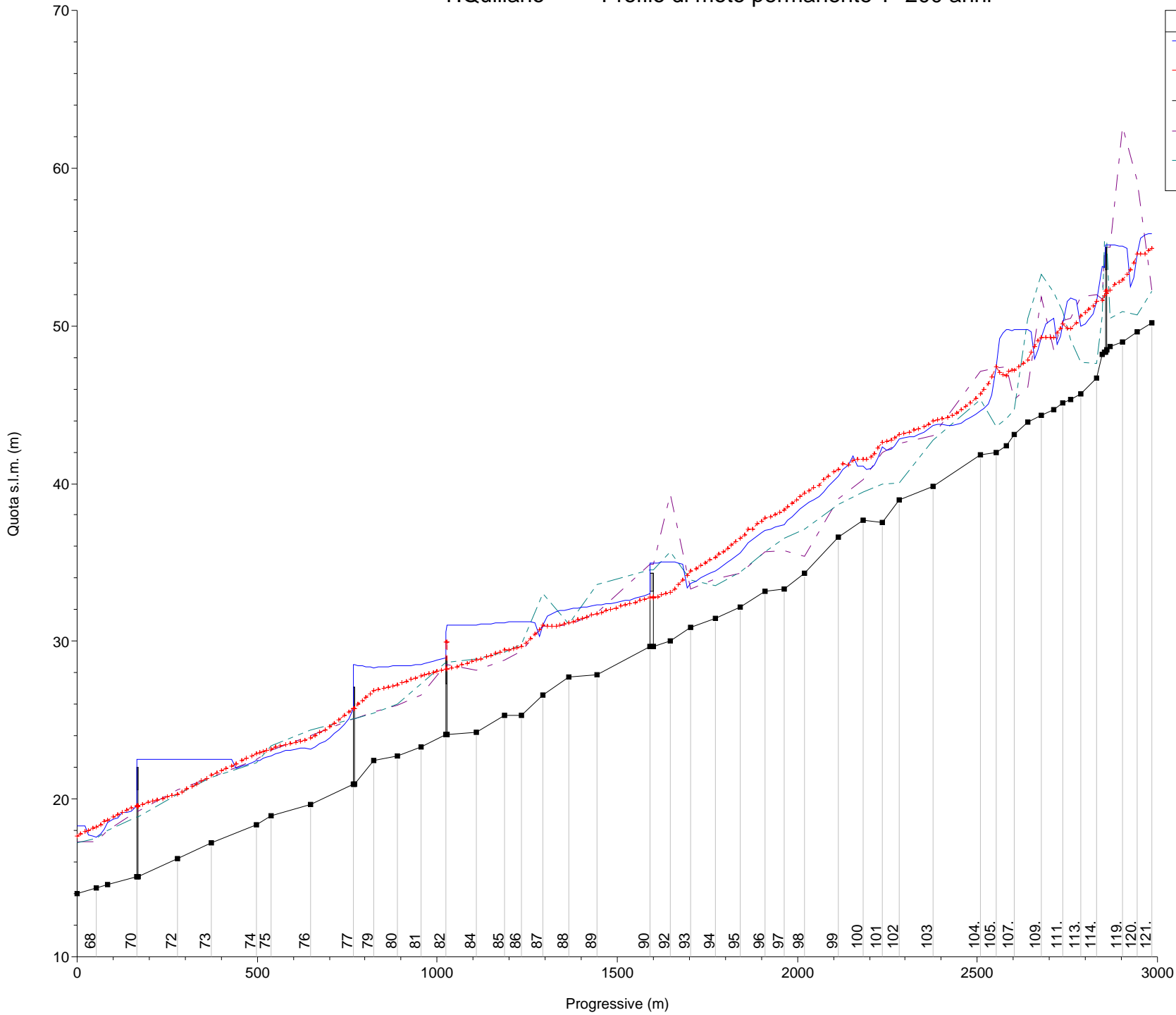
Quiliano-Foce 310101

Profilo di moto permanente per T= 50 anni



Legend	
Profondità critica T=50 anni	(Dotted red line)
Pelo libero T=50 anni	(Solid blue line)
Fondo alveo	(Dashed purple line)
Argine sinistro	(Dashed green line)
Argine destro	(Dashed green line)

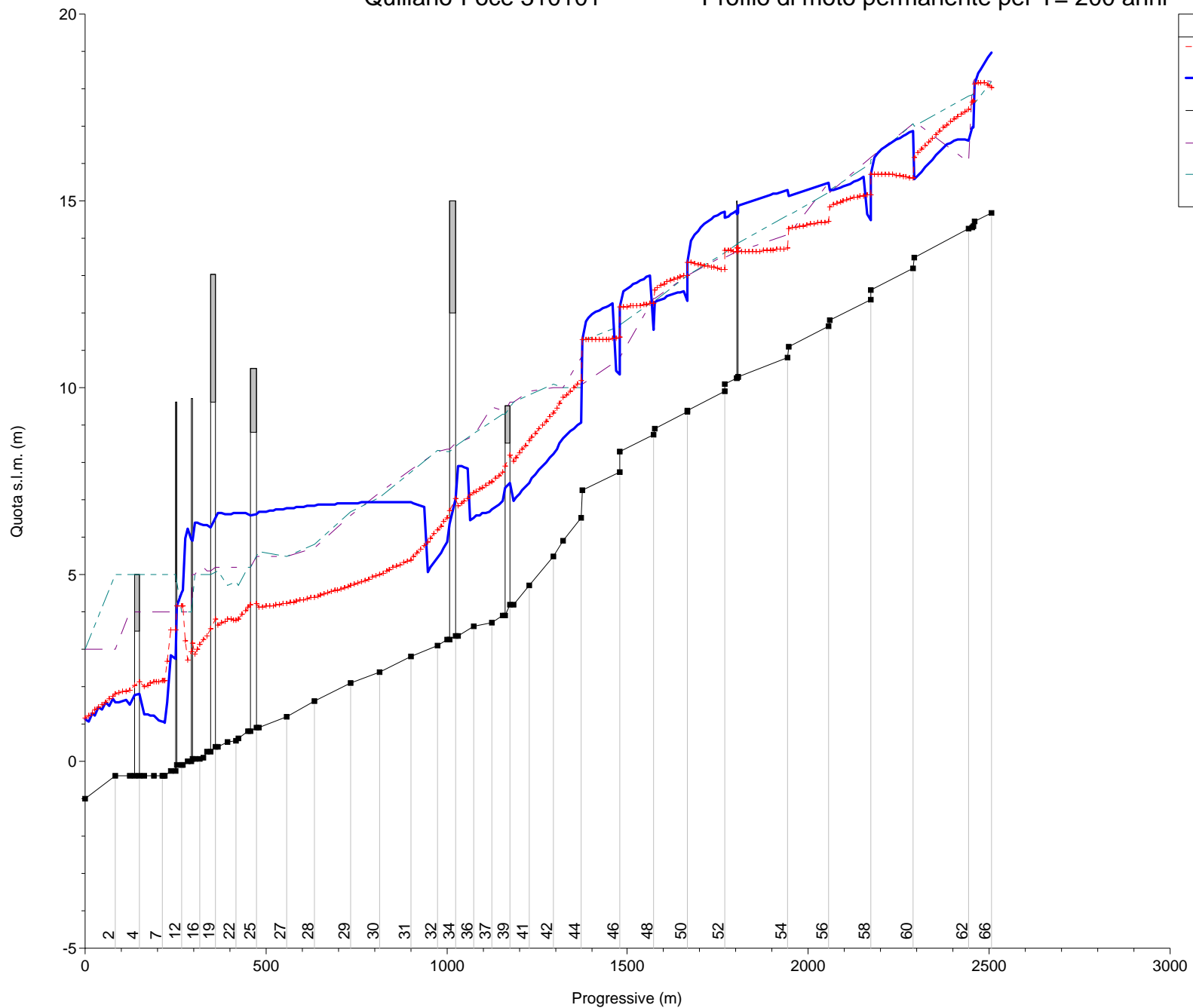
T.Quiliano Profilo di moto permanente T=200 anni



Legend	
	Pelo libero T=200
	Profondità critica T=200
	Fondo alveo
	Argine sinistro
	Argine destro

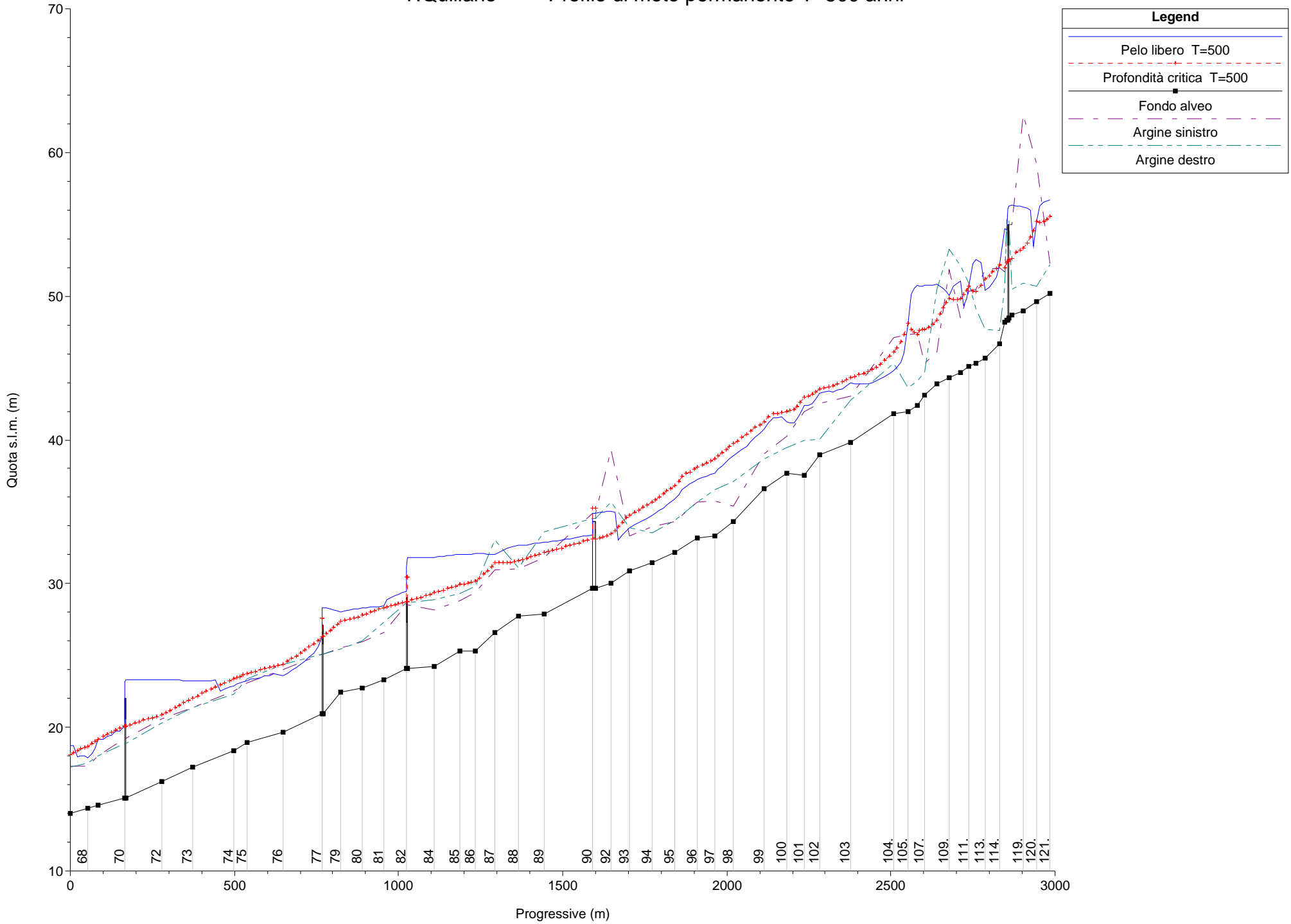
Quiliano-Foce 310101

Profilo di moto permanente per T= 200 anni



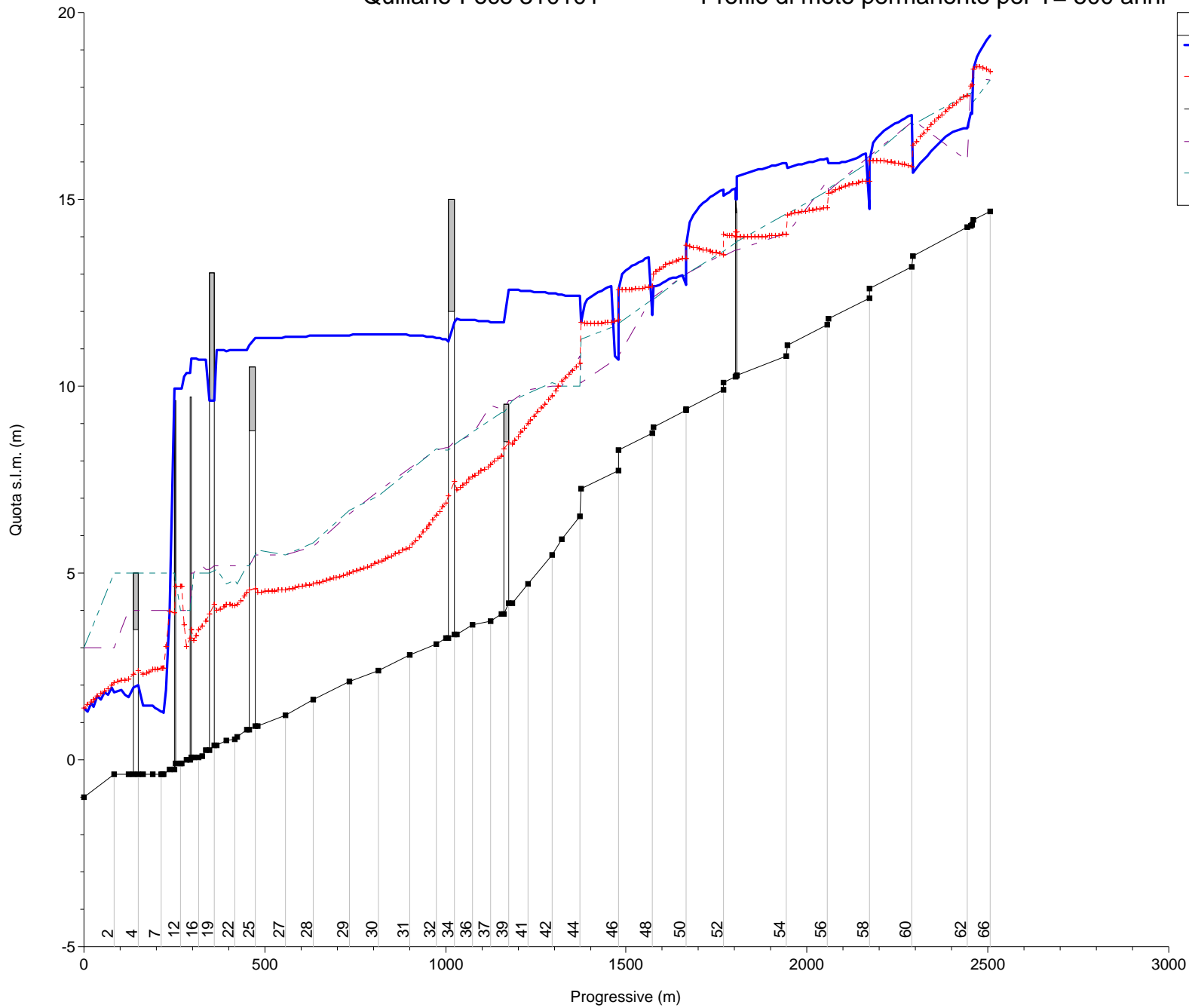
Legend	
Profondità critica T=200 anni	(Red dashed line with '+' markers)
Pelo libero T=200 anni	(Solid blue line)
Fondo alveo	(Black line with square markers)
Argine sinistro	(Purple dashed line)
Argine destro	(Green dashed line)

T.Quiliano Profilo di moto permanente T=500 anni



Quiliano-Foce 310101

Profilo di moto permanente per T= 500 anni



Legend	
	Pelo libero T=500 anni
	Profondità critica T=500 anni
	Fondo alveo
	Argine sinistro
	Argine destro

**GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI**

QUILIANO stato attuale al 31/01/01

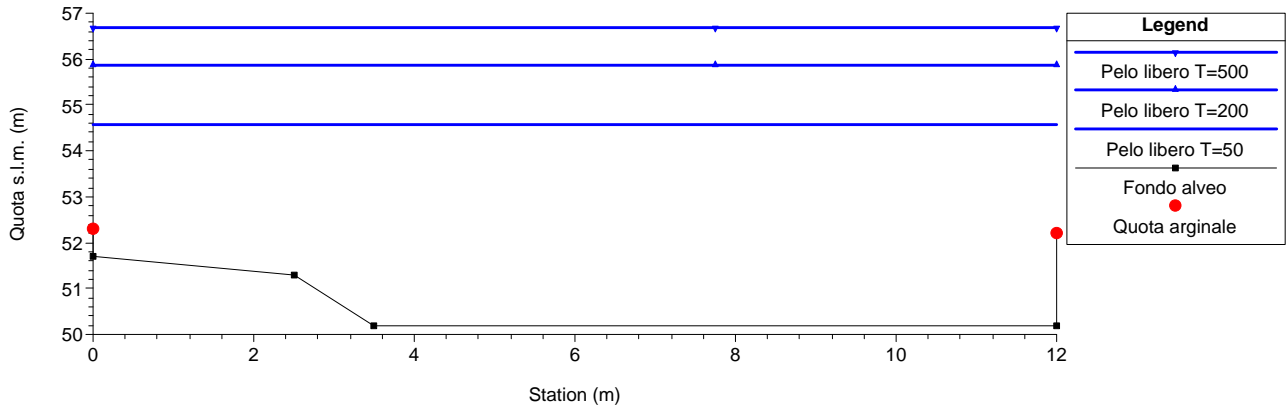
da sez. 121
a sez. 1

- **Loc. Becchi**
- **T. Trexenda**
- **Quiliano monte**
- **Quiliano foce**

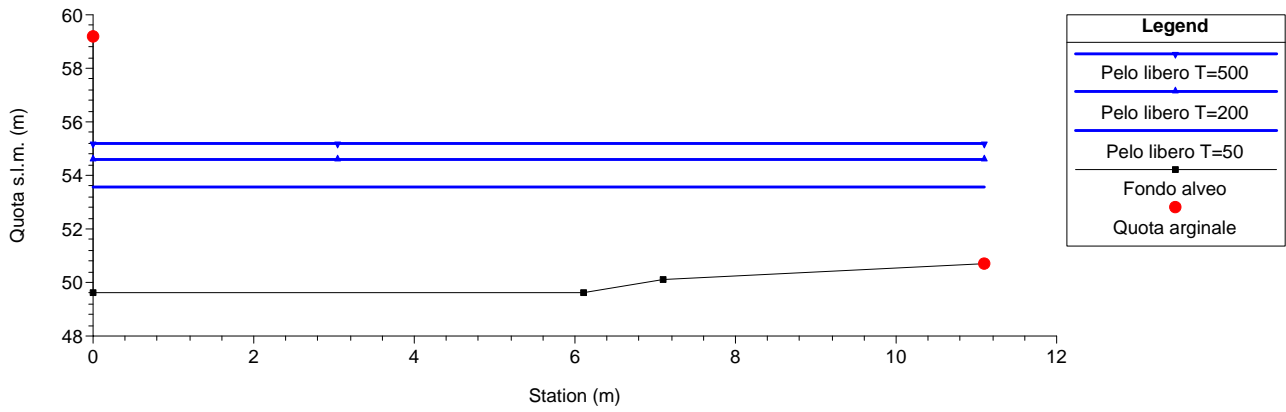
Dalle analisi effettuate con la configurazione dell'alveo allo stato attuale (31/01/01) è derivata la redazione delle Tavv. 9 (fasce di inondabilità), 11 (rischio idraulico) e 14 (aree inondabili).

QUILIANO – Sezioni trasversali

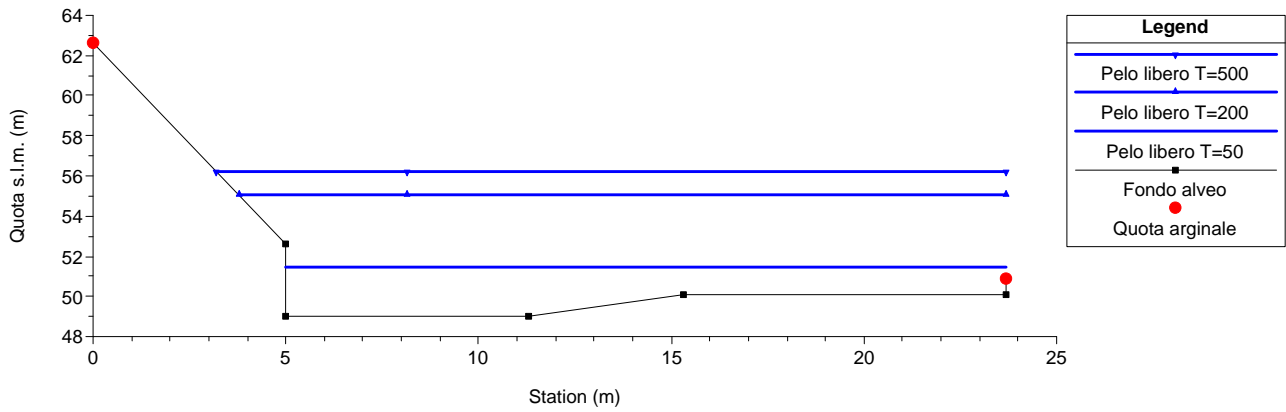
RS = 121.



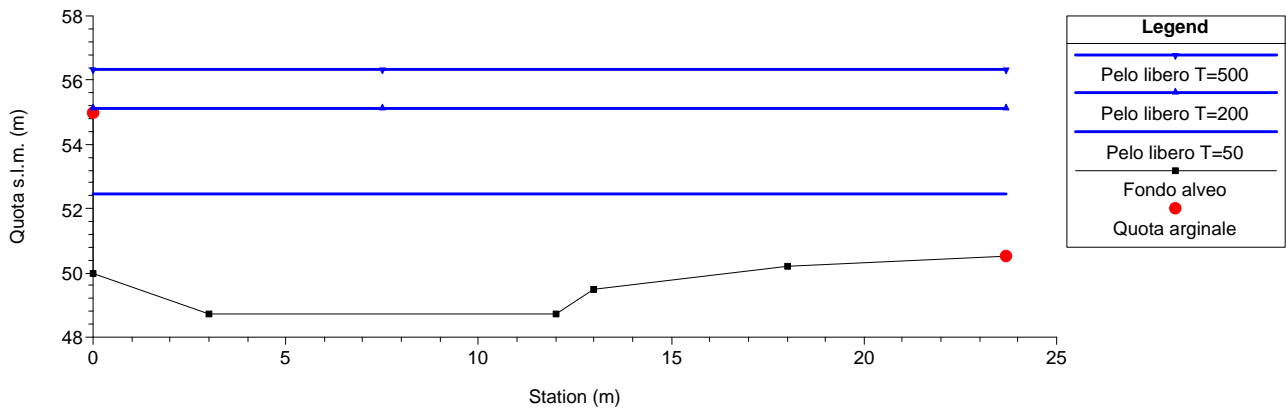
RS = 120.



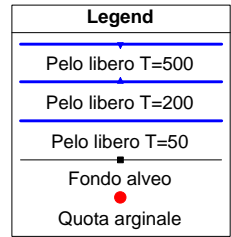
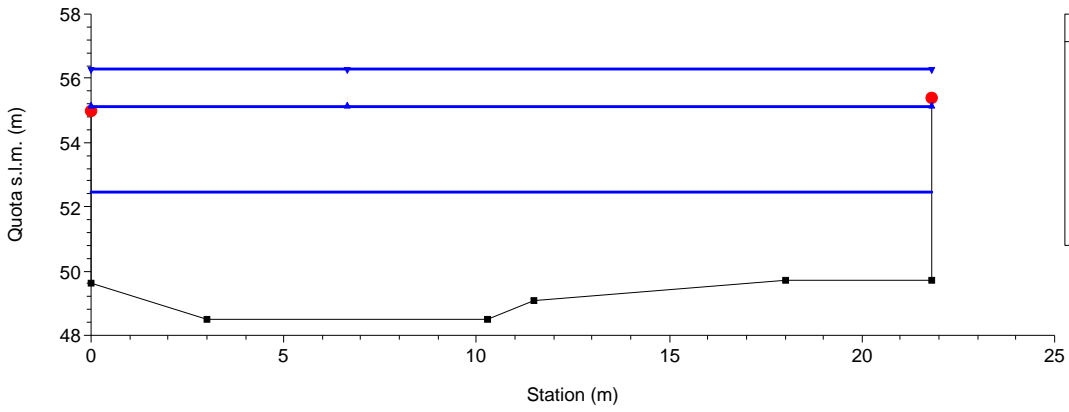
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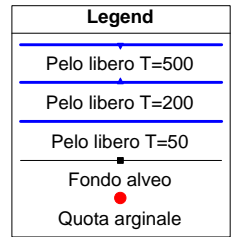
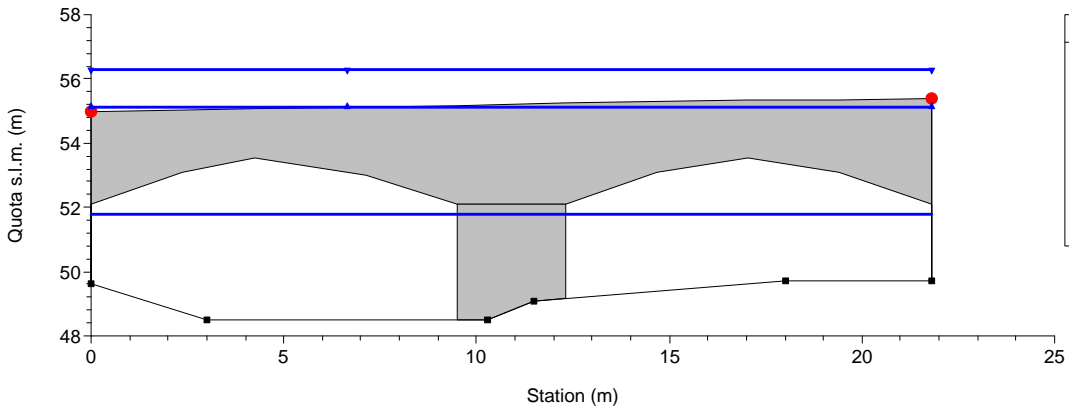
RS = 118.



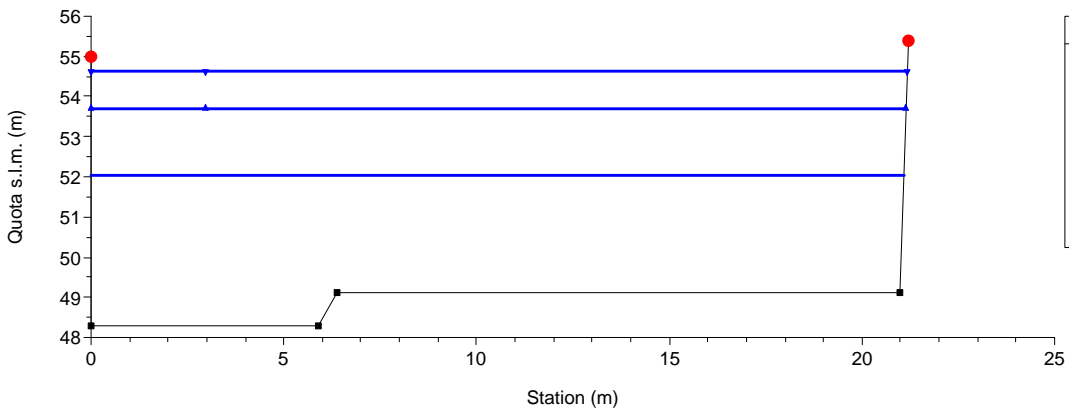
RS = 117.



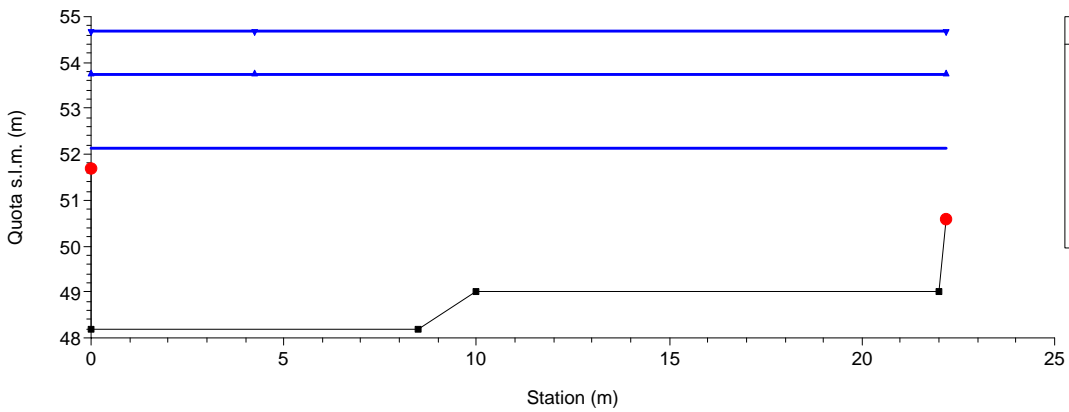
RS = 116.5 BR U



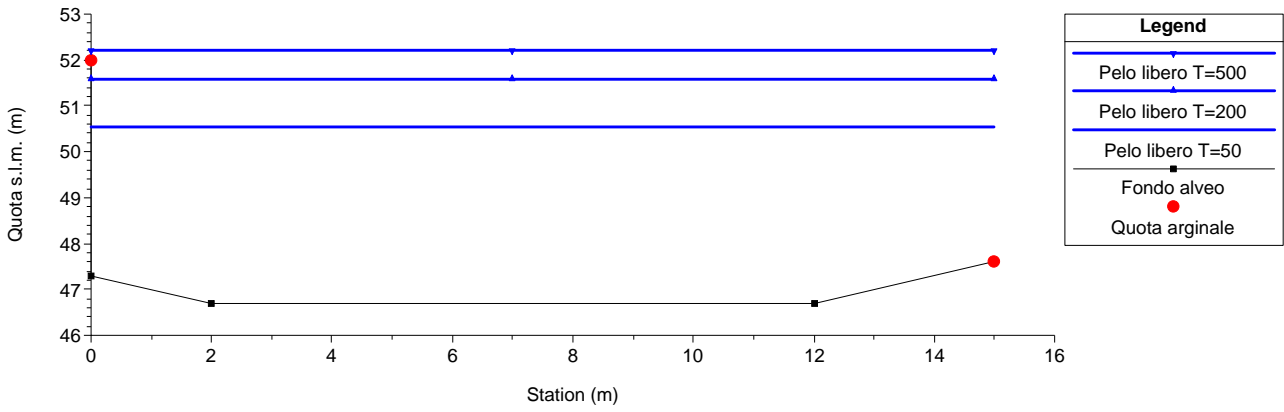
RS = 116.



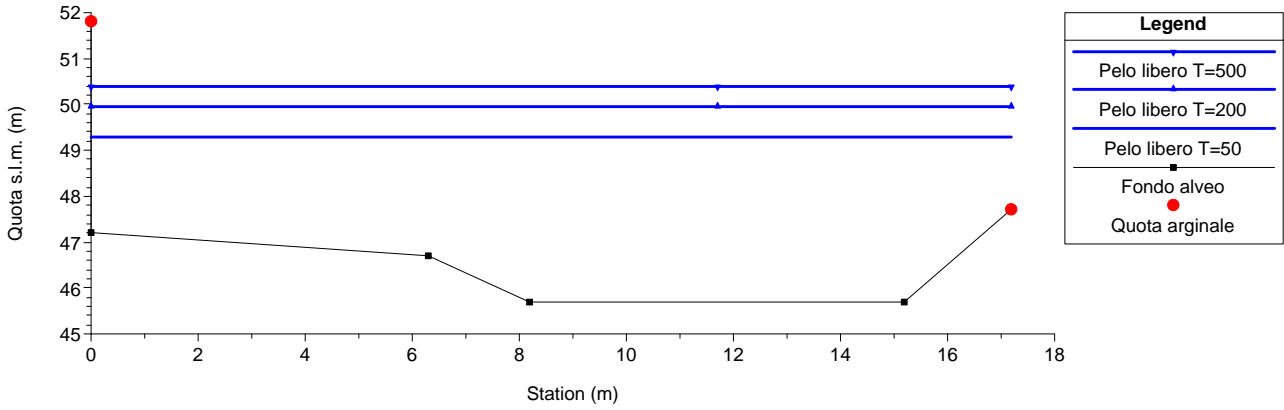
RS = 115.



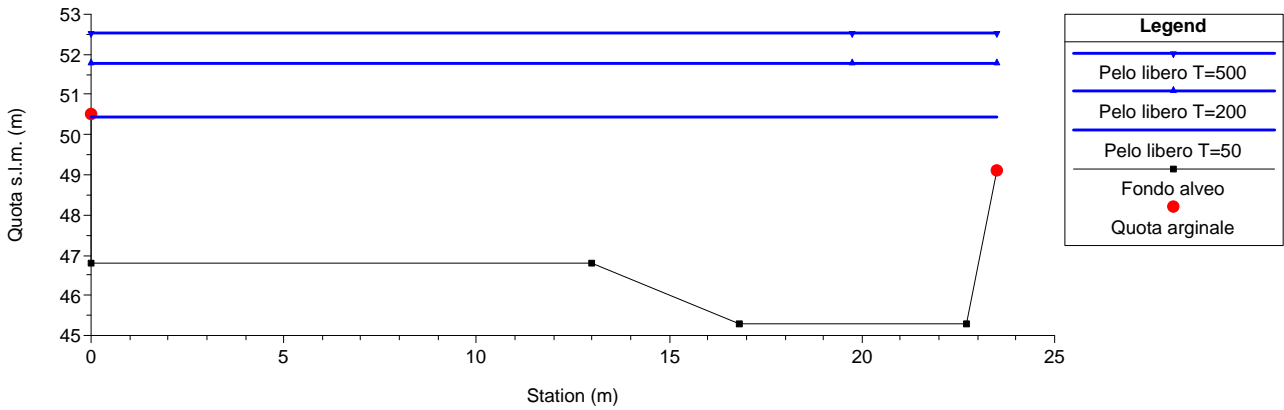
RS = 114.



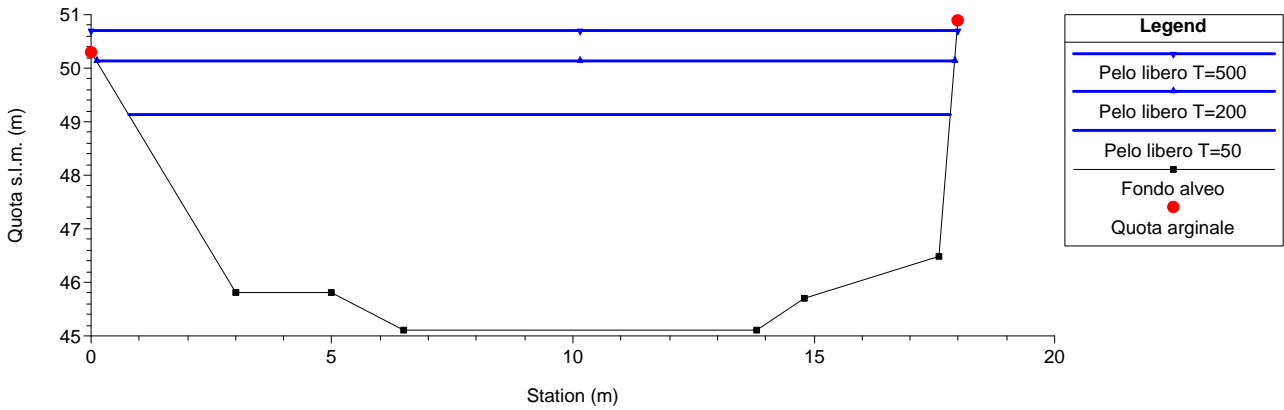
RS = 113.



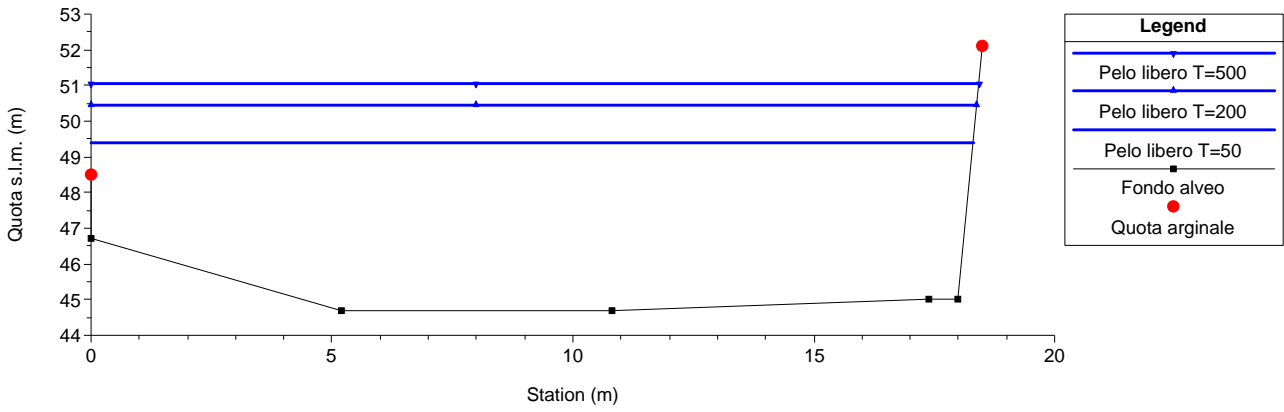
RS = 112.



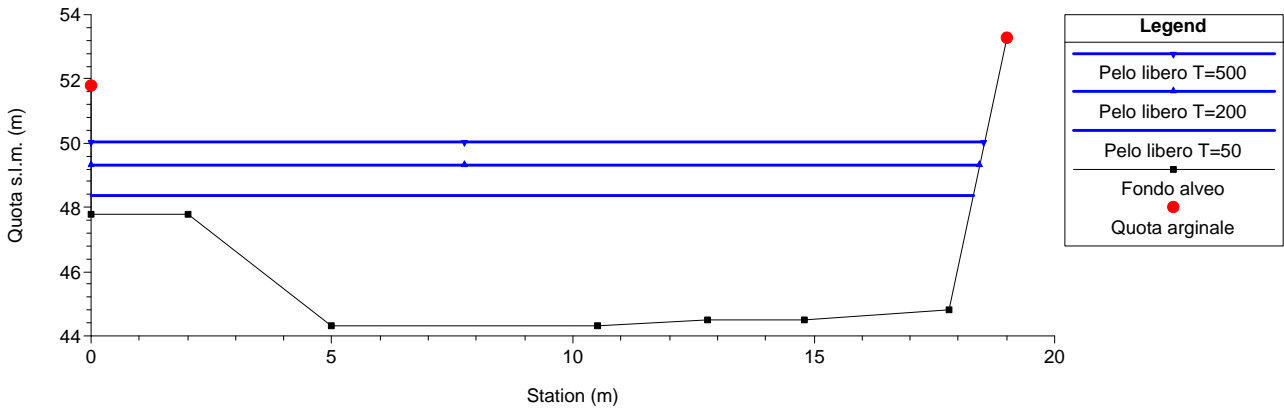
RS = 111.



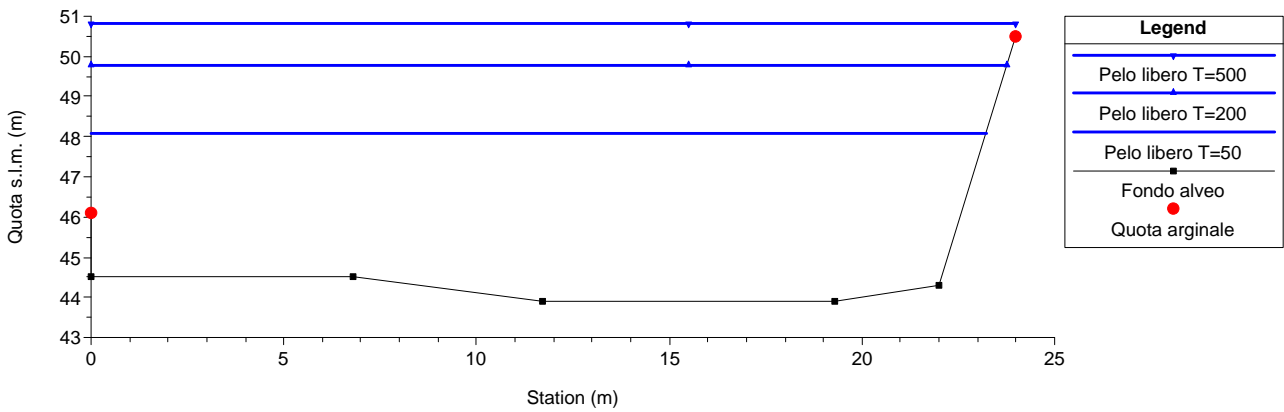
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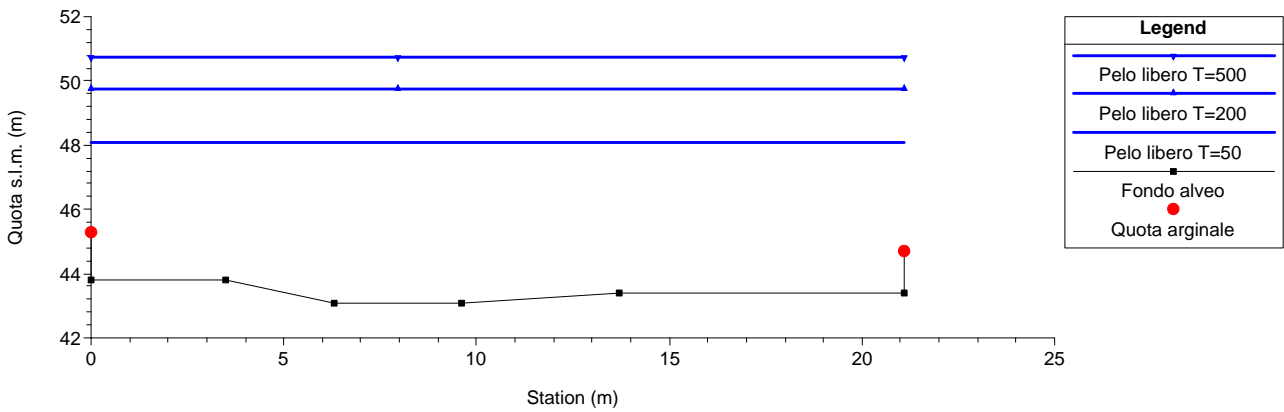
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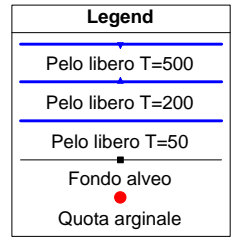
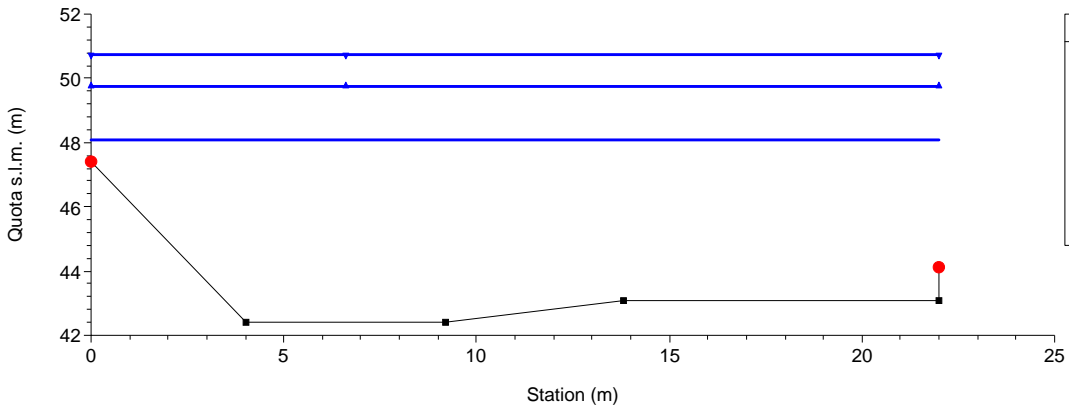
RS = 108.



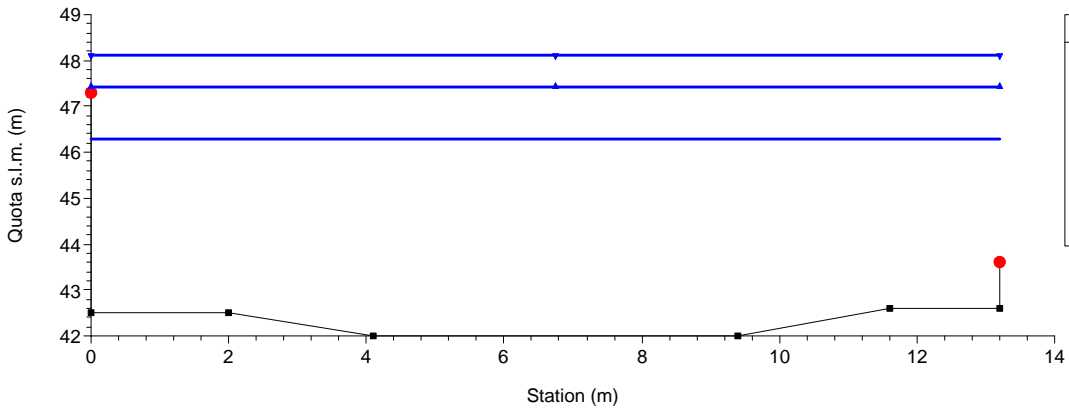
RS = 107.



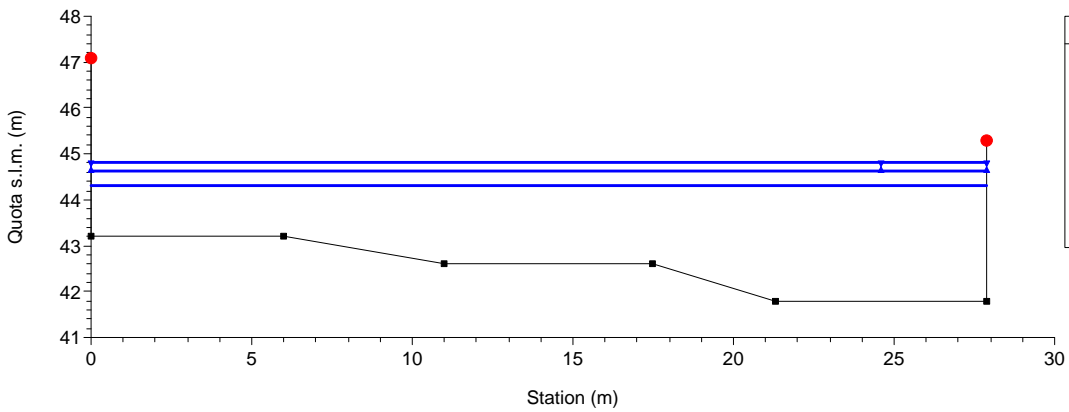
RS = 106.



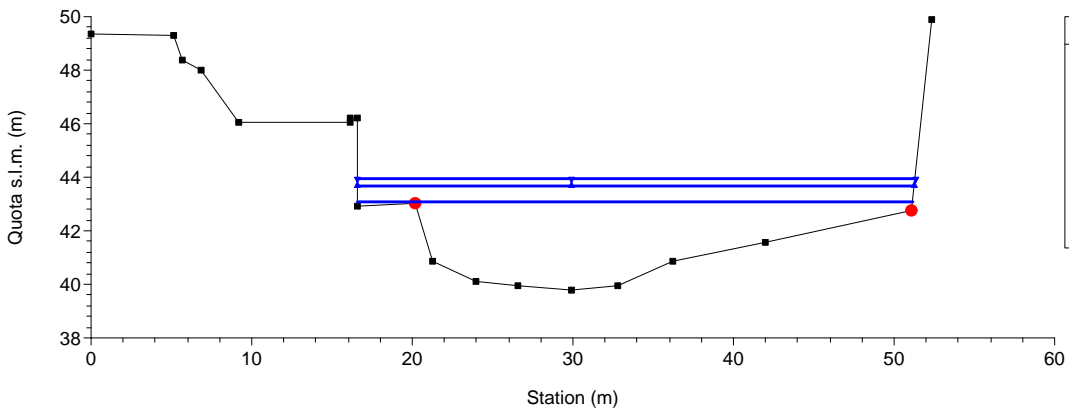
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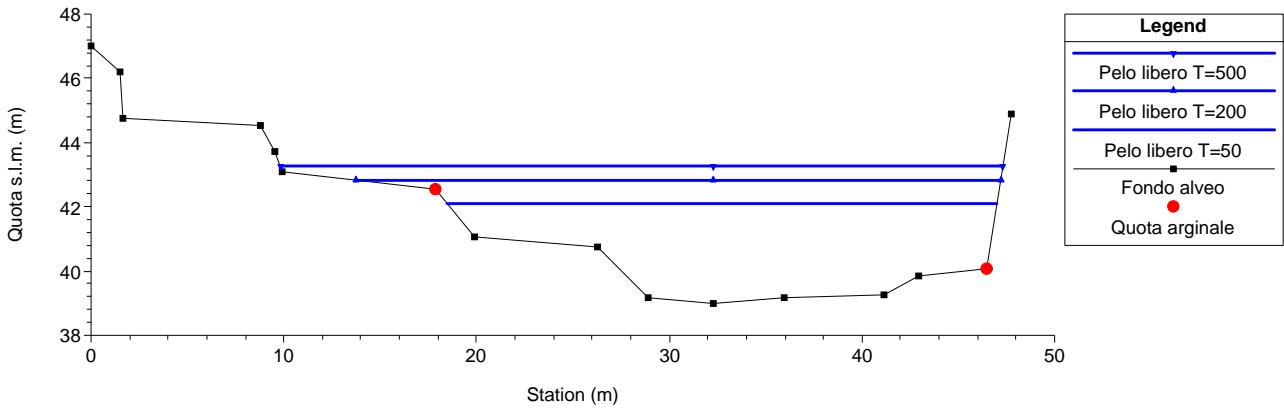
RS = 104.



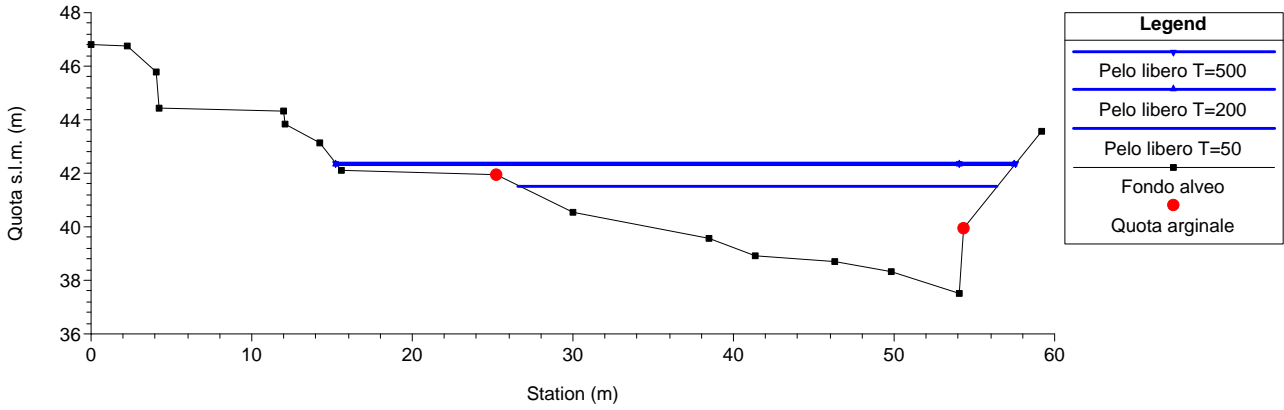
RS = 103



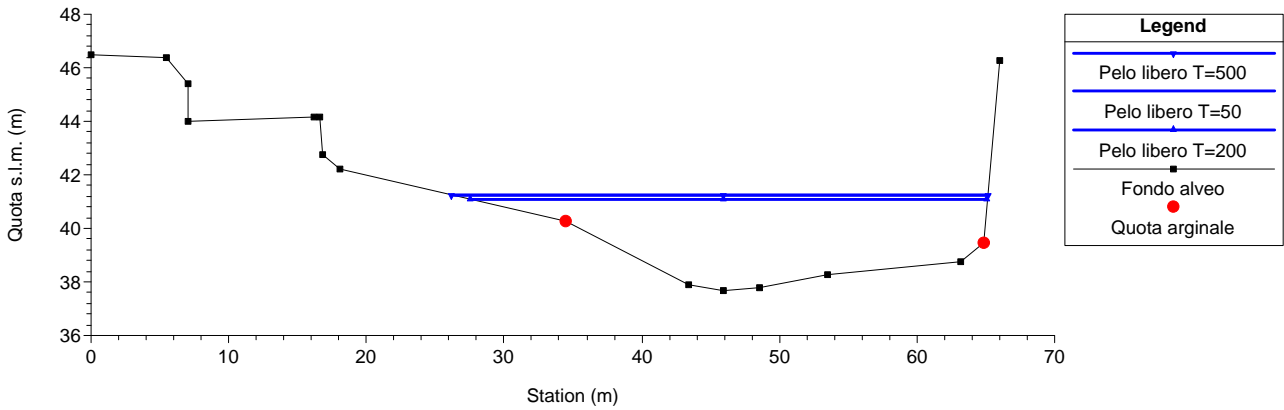
RS = 102



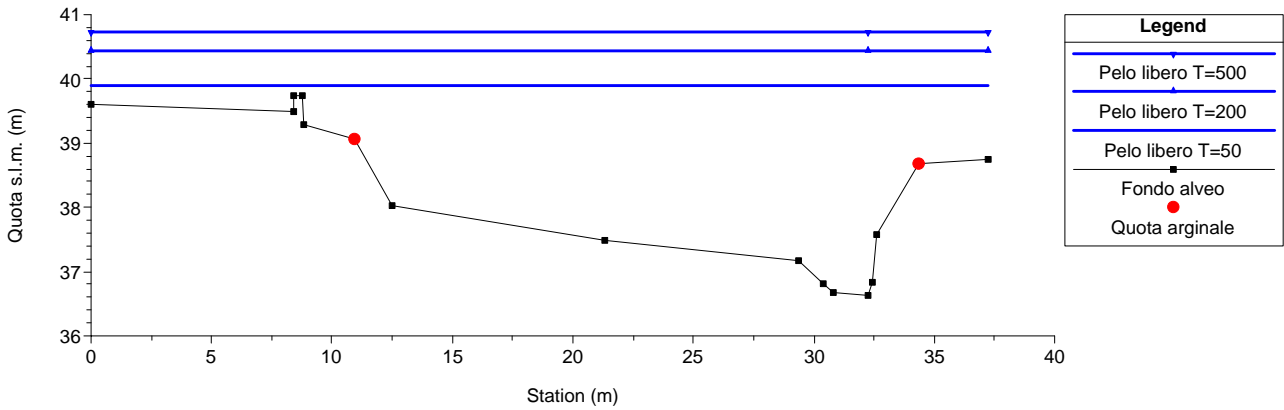
RS = 101



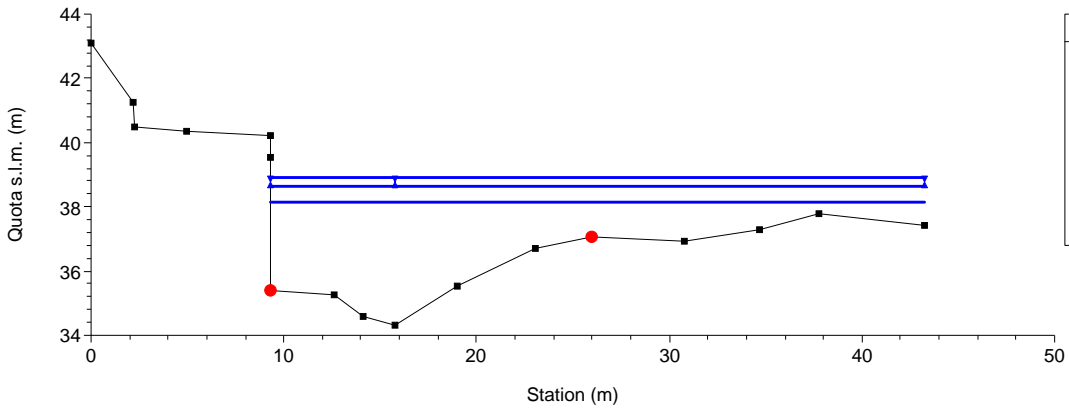
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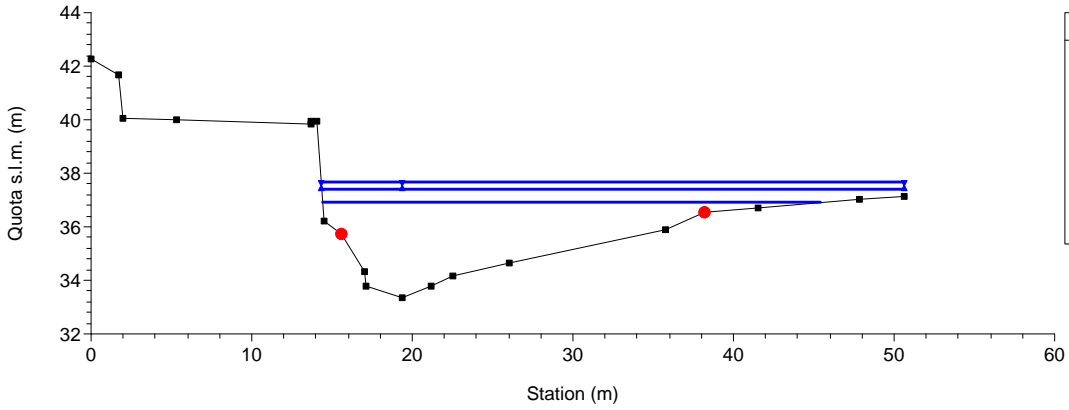
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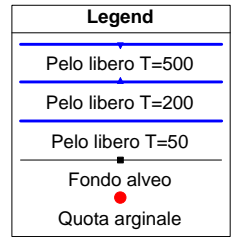
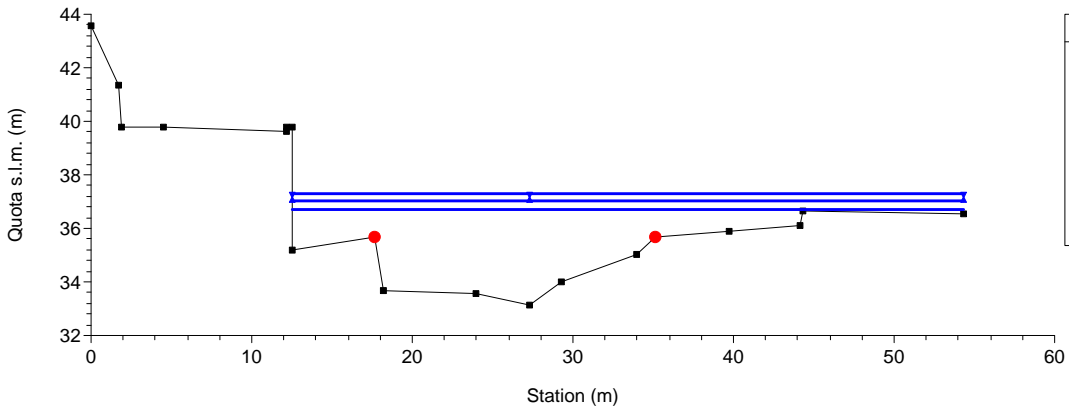
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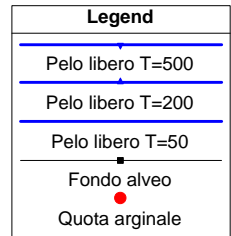
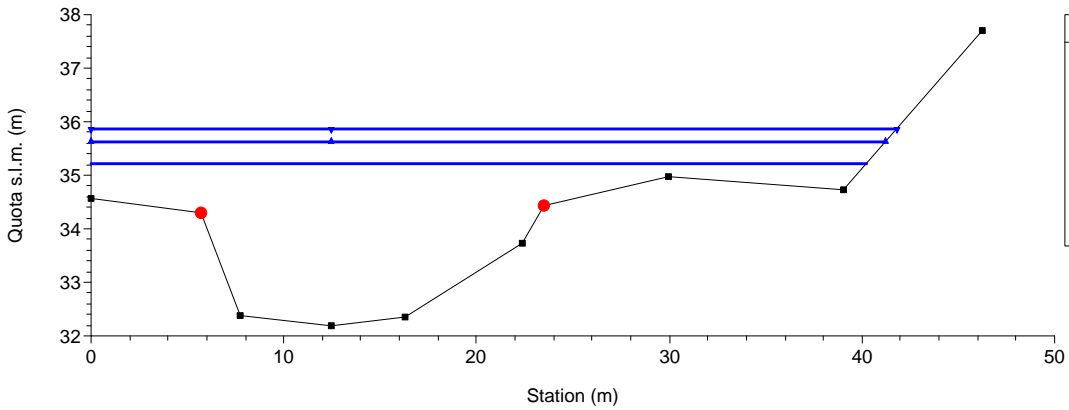
RS = 97



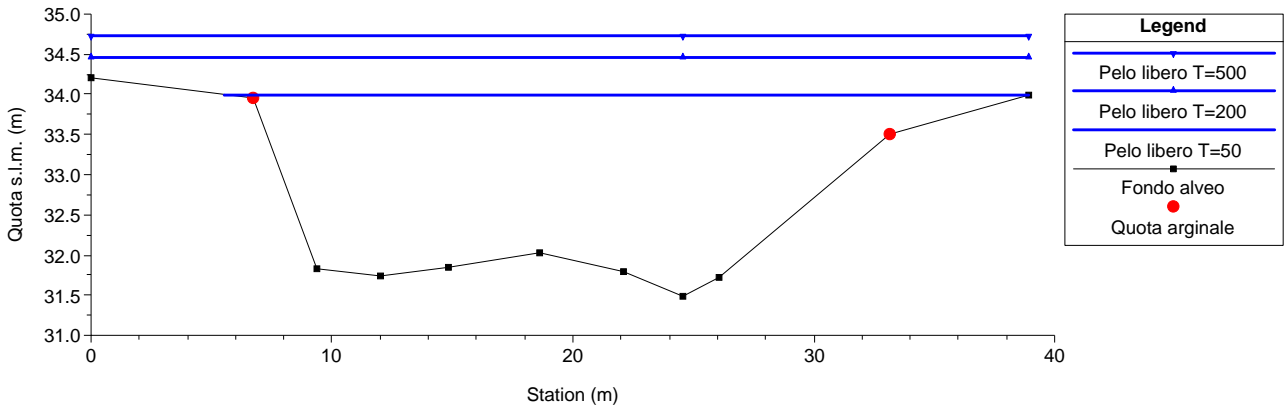
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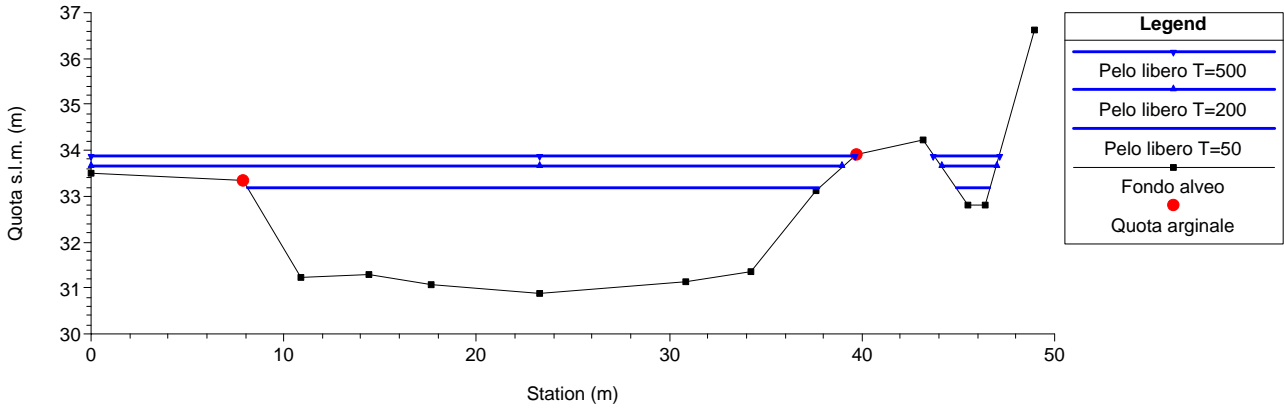
RS = 95



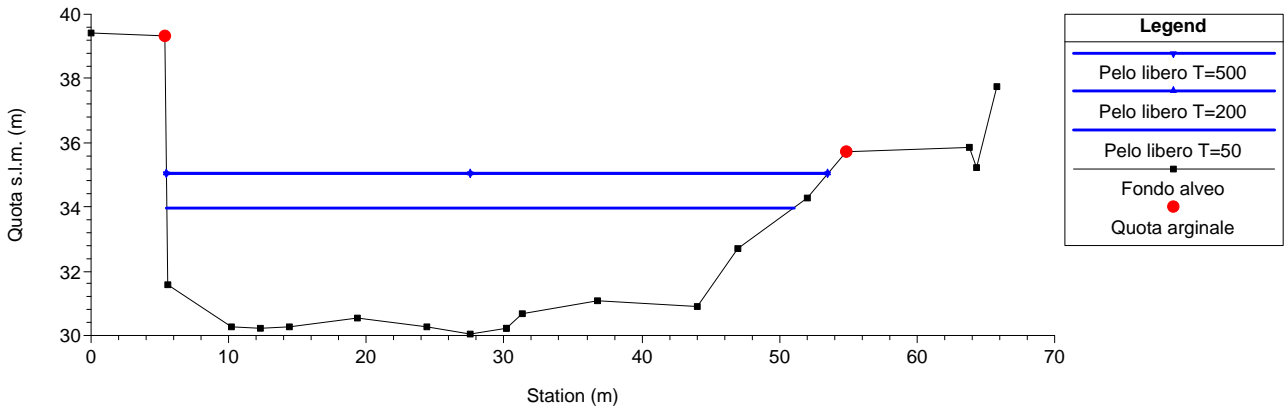
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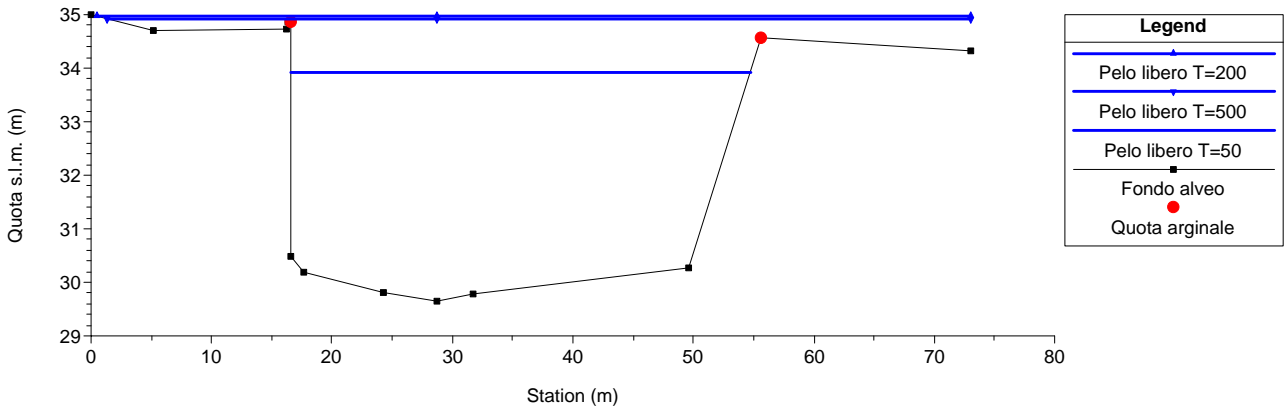
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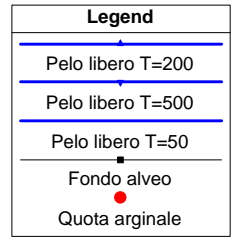
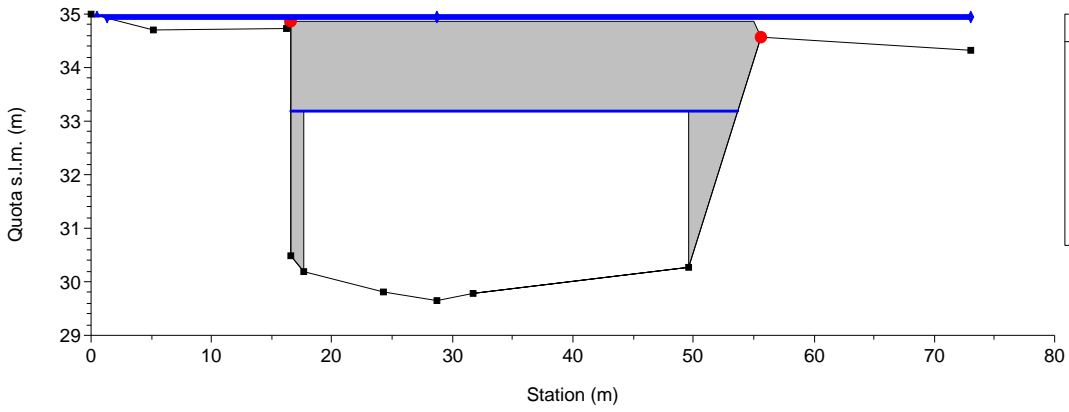
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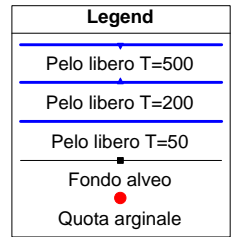
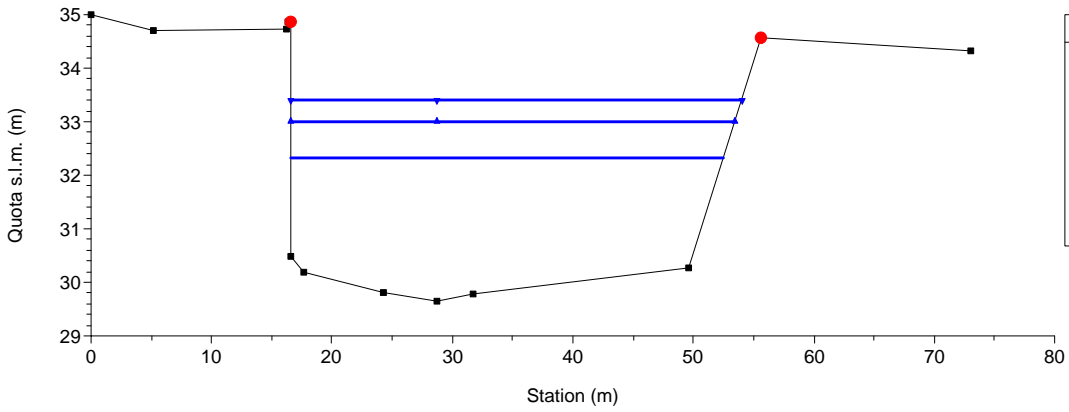
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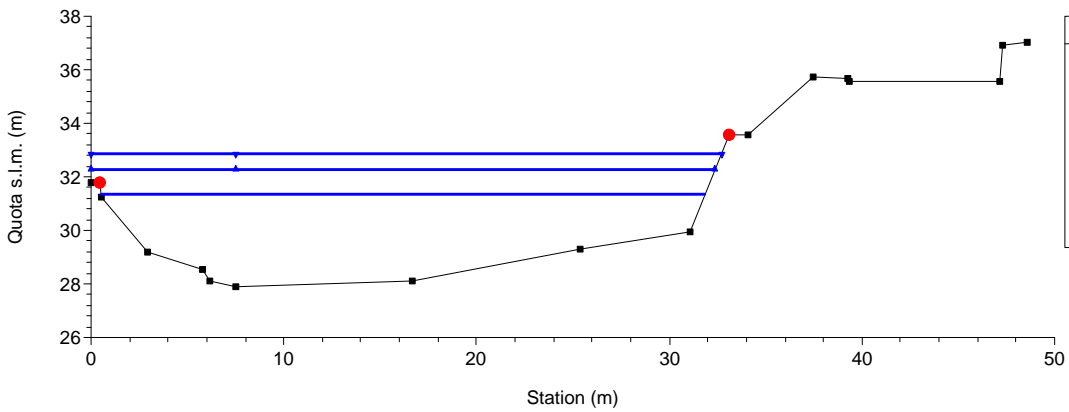
RS = 90.5 BR U



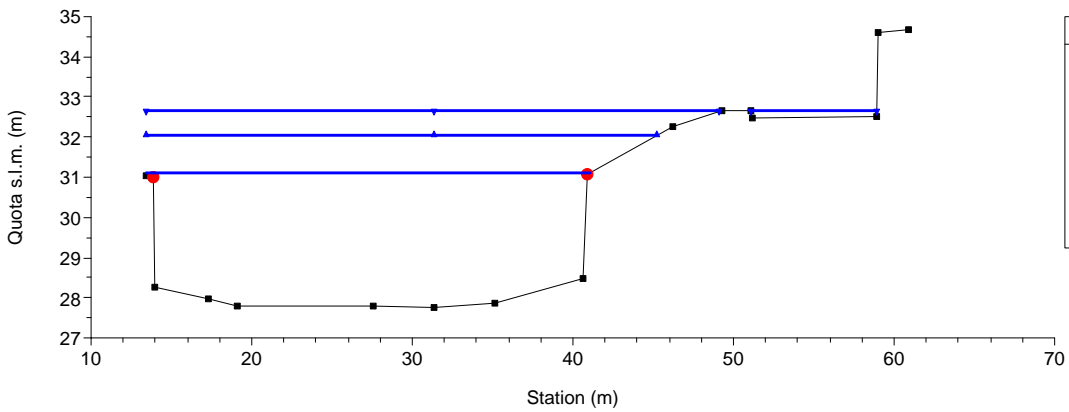
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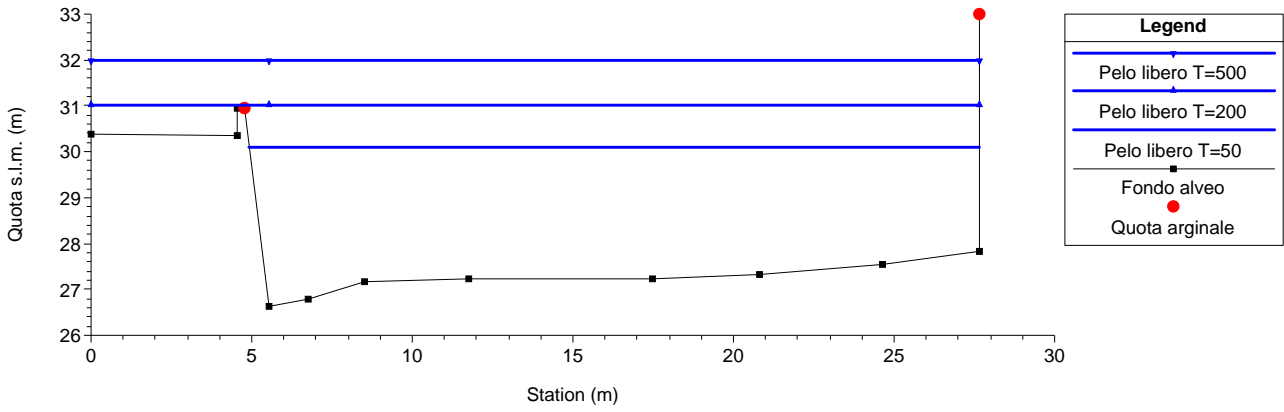
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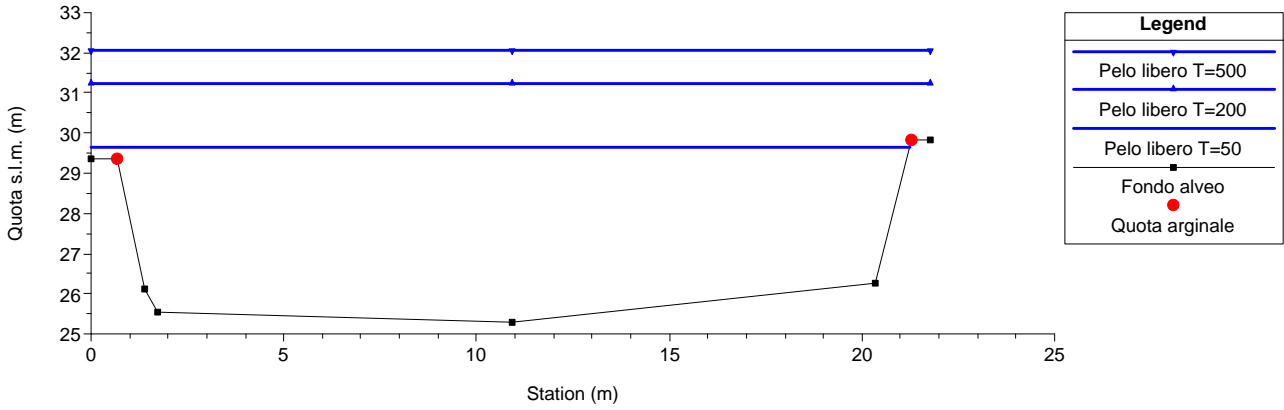
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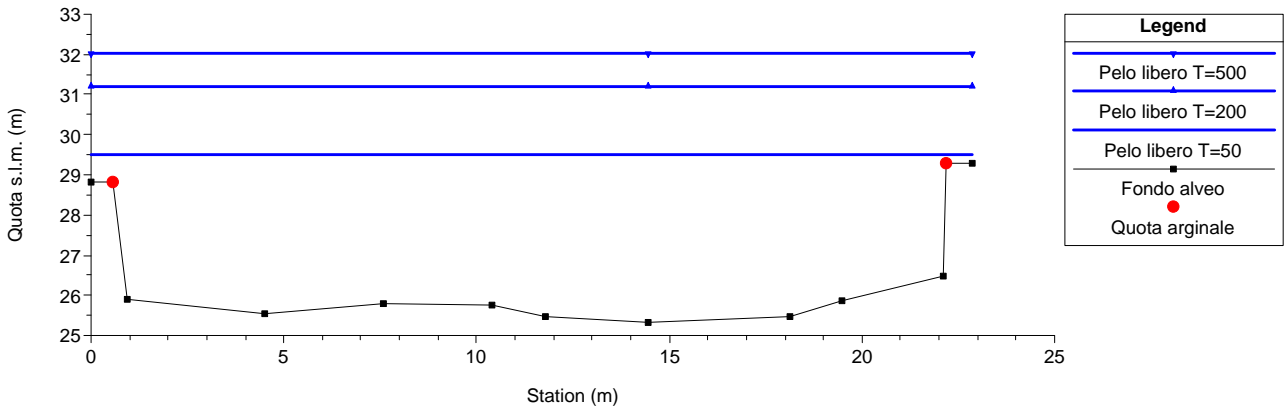
RS = 87



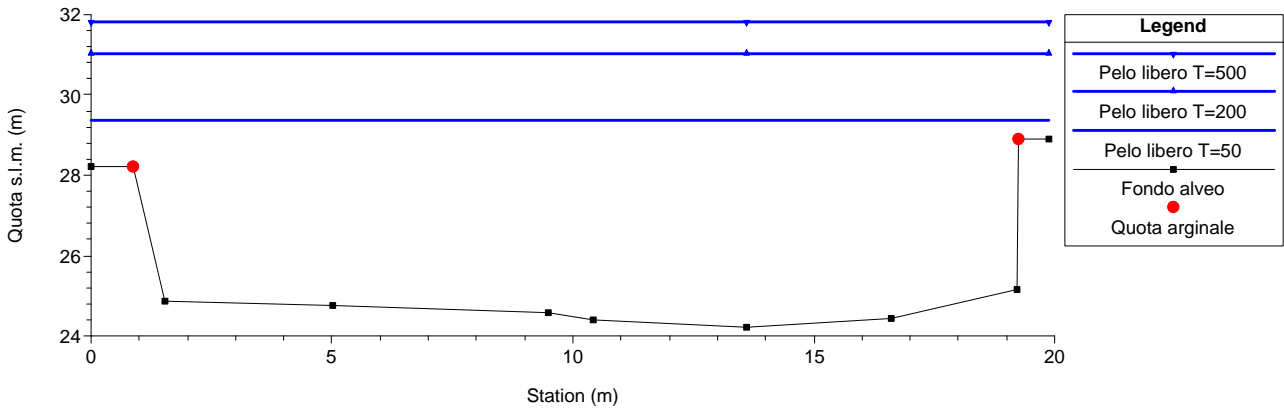
RS = 86



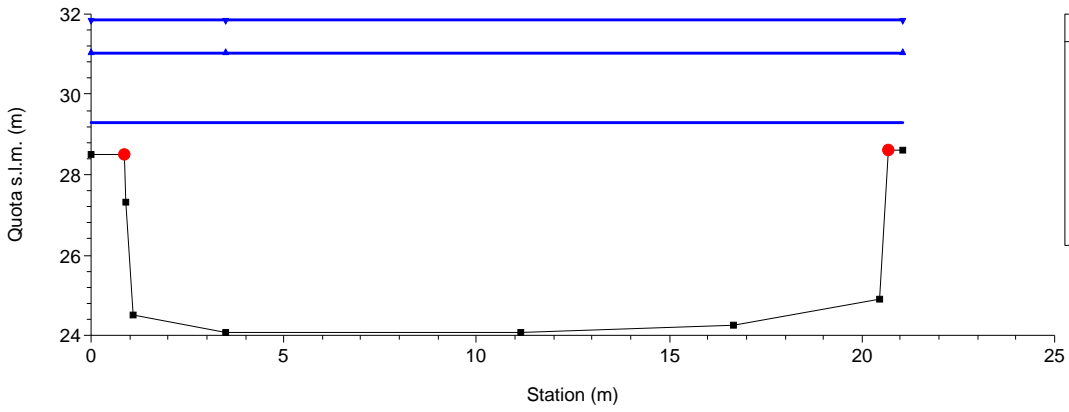
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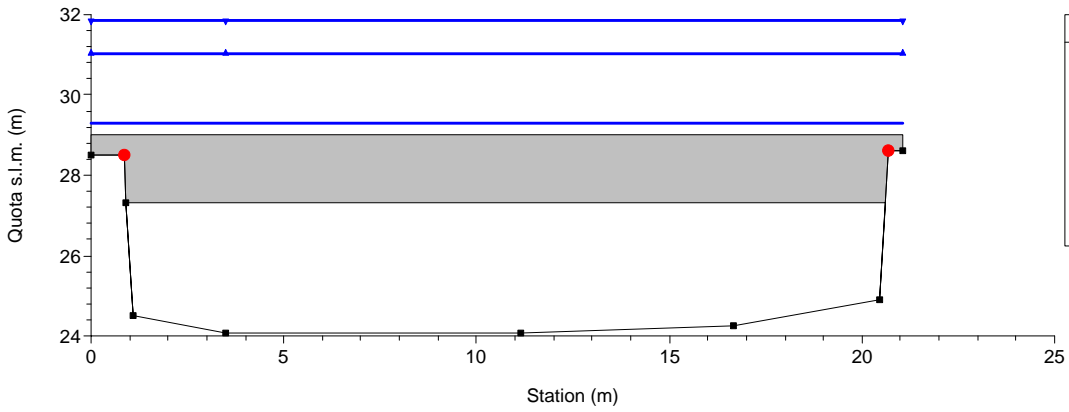
RS = 84



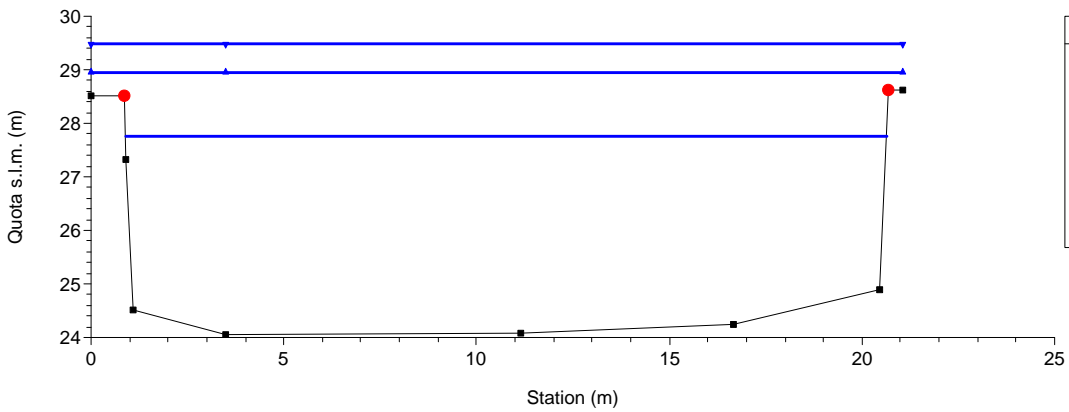
RS = 83



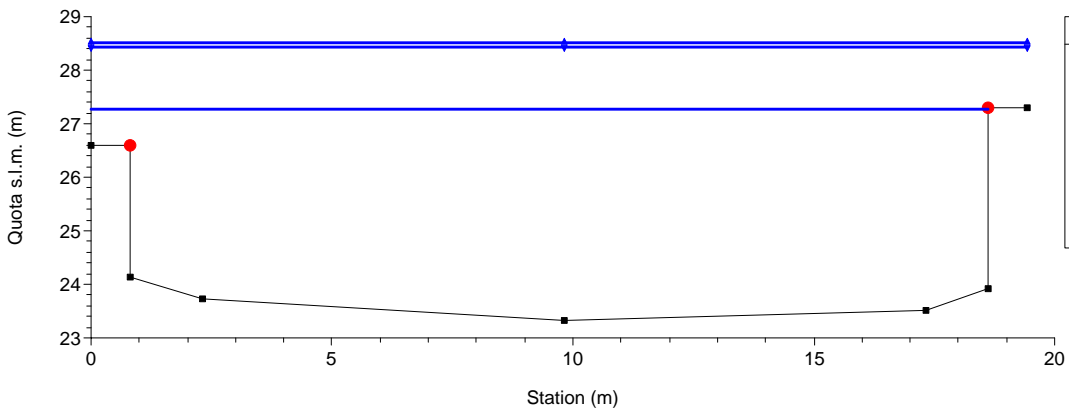
RS = 82.5 BR U



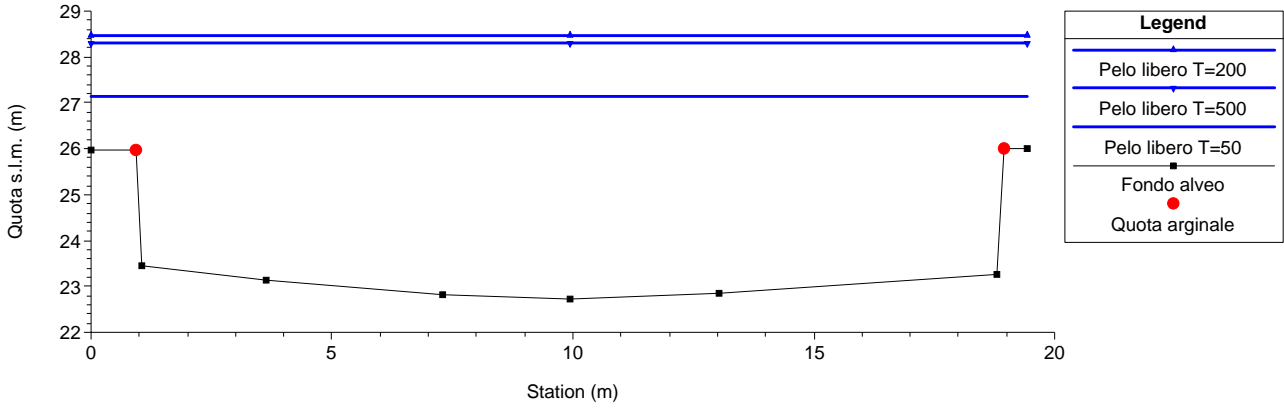
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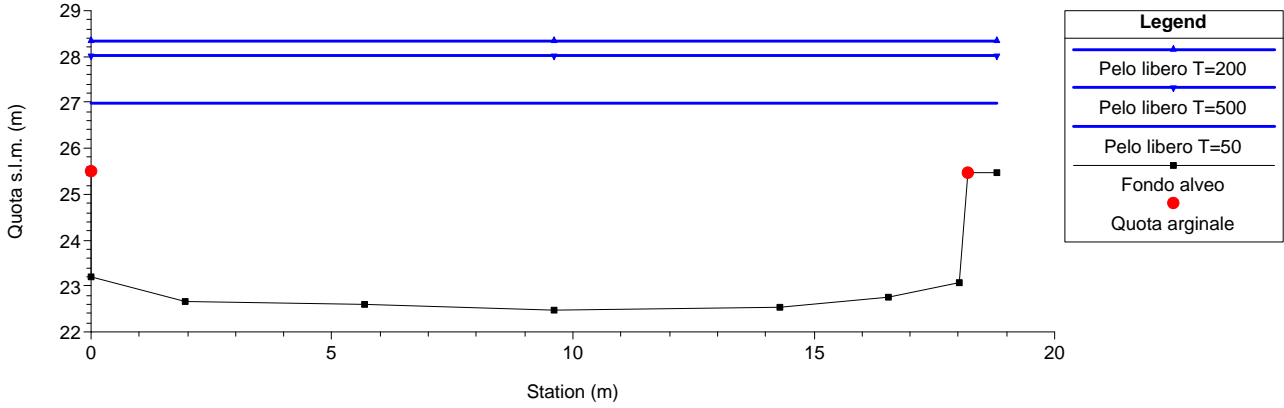
RS = 81



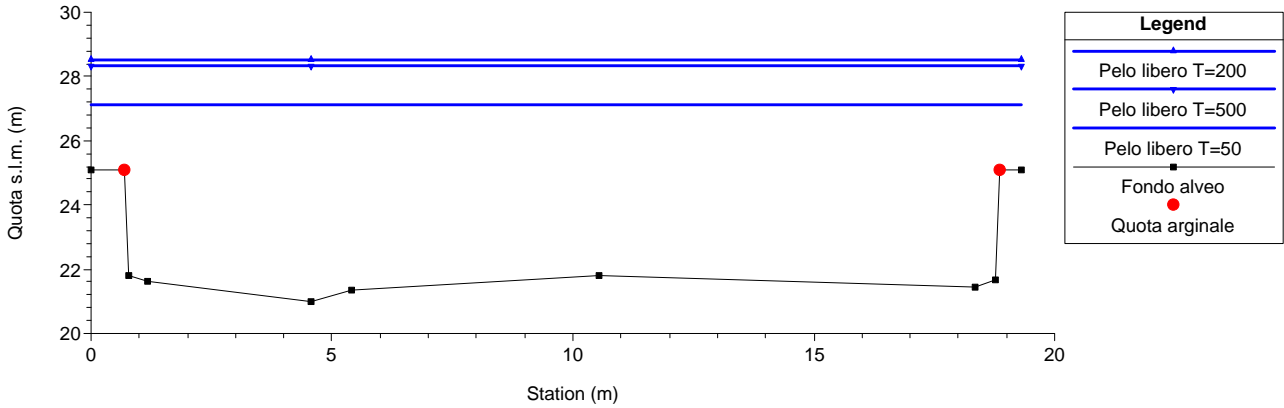
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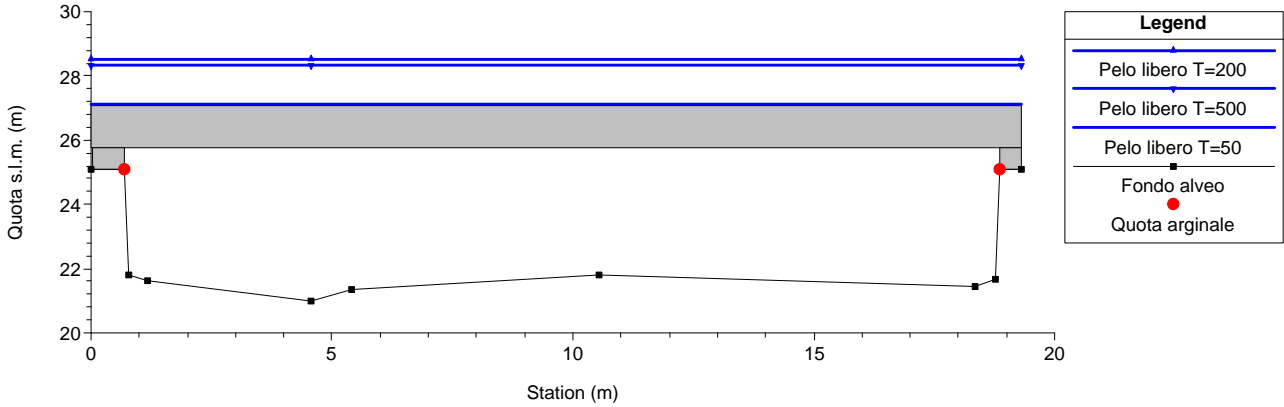
RS = 79



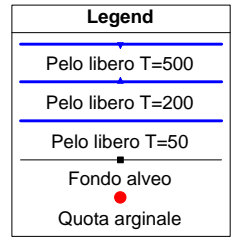
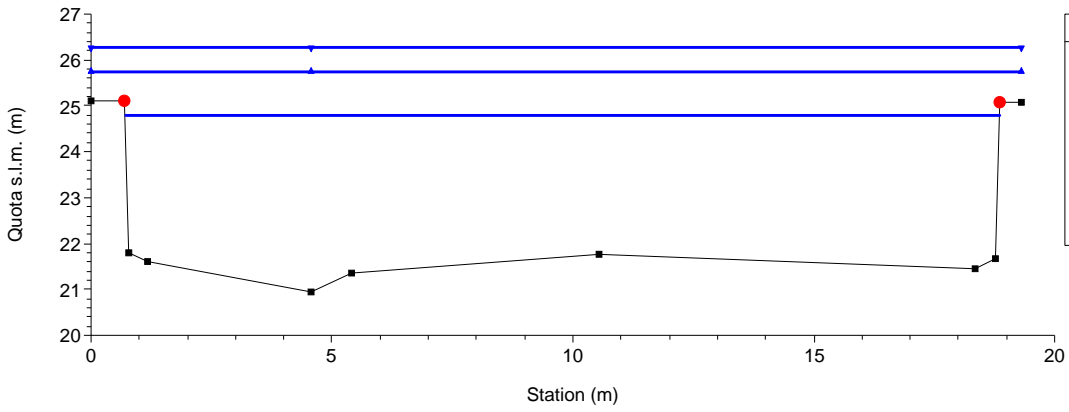
RS = 78



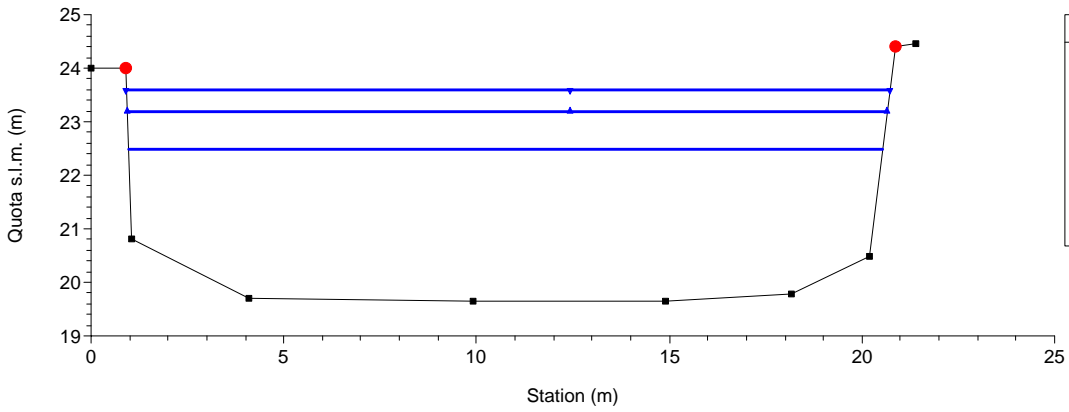
RS = 77.5 BR U



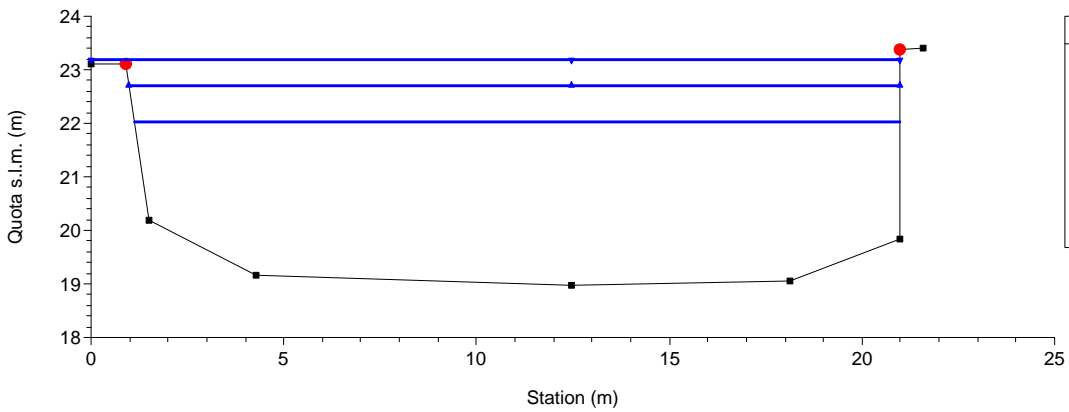
RS = 77



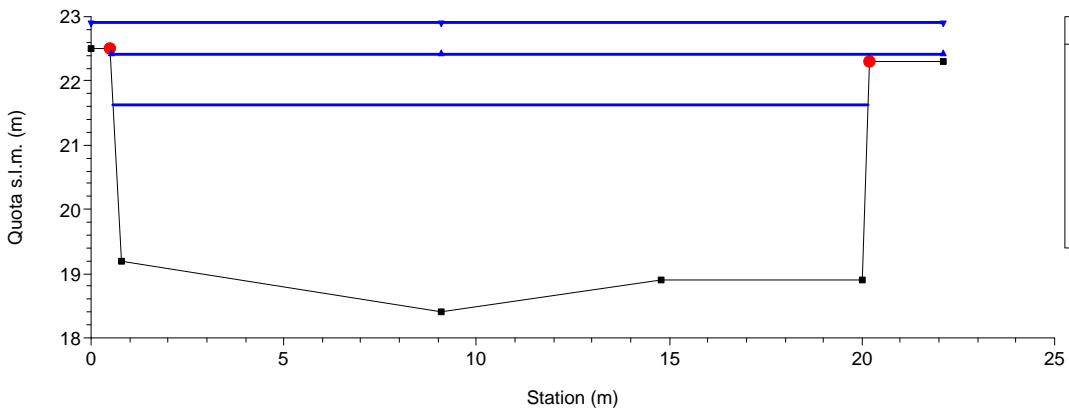
RS = 76



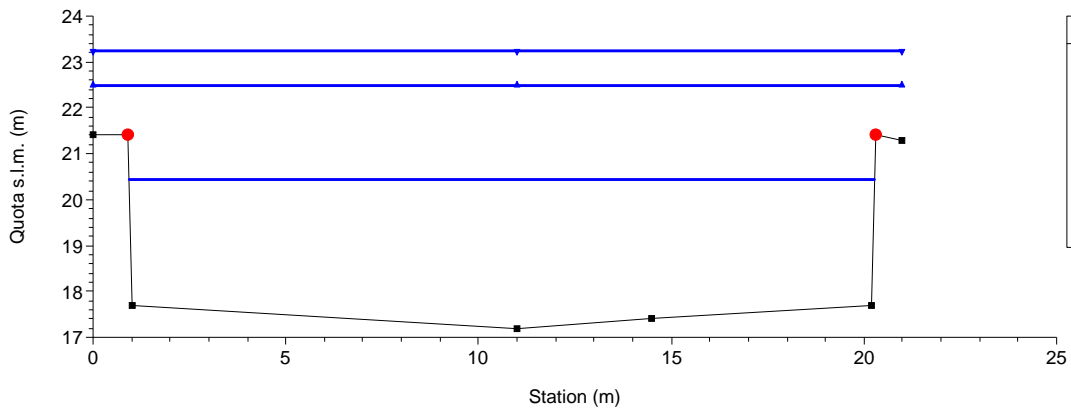
RS = 75



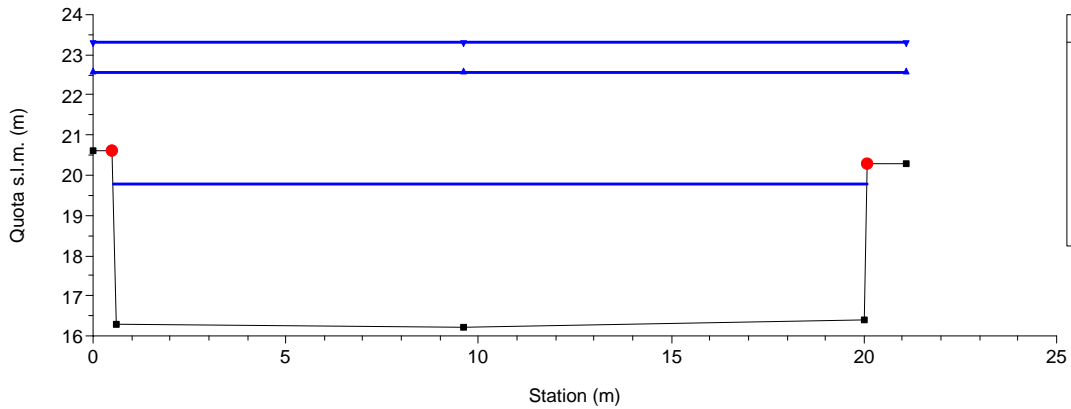
RS = 74



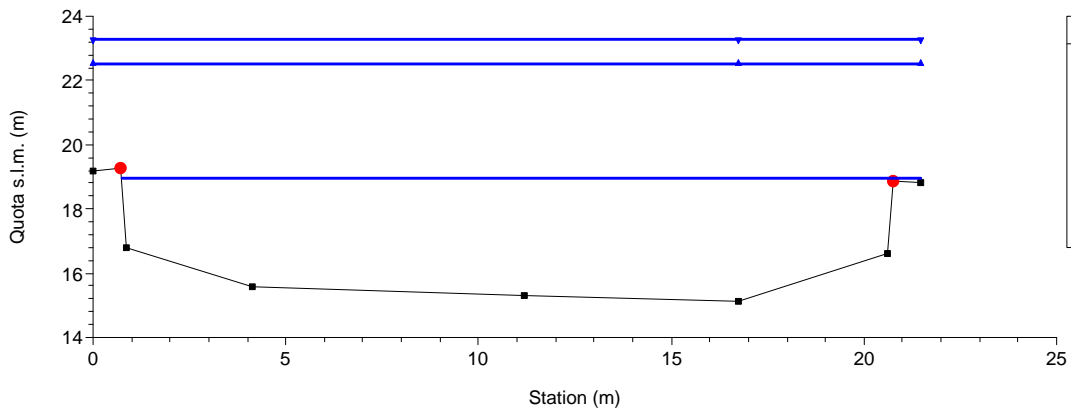
RS = 73



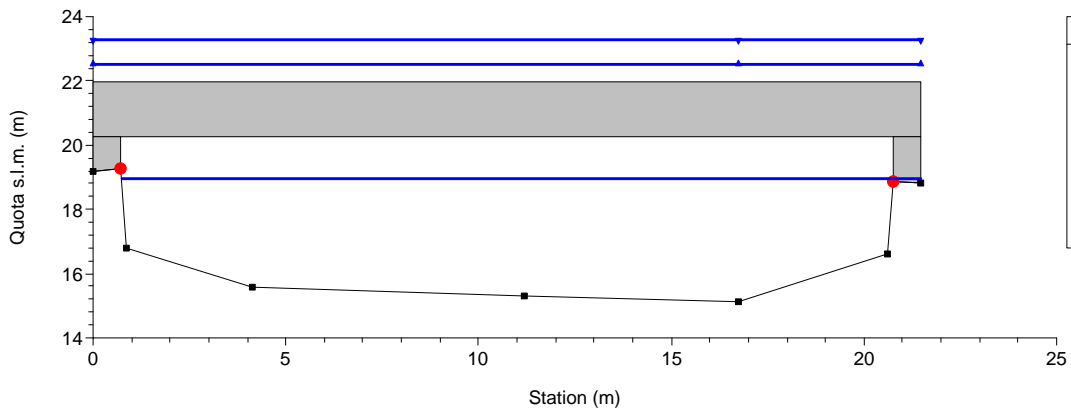
RS = 72



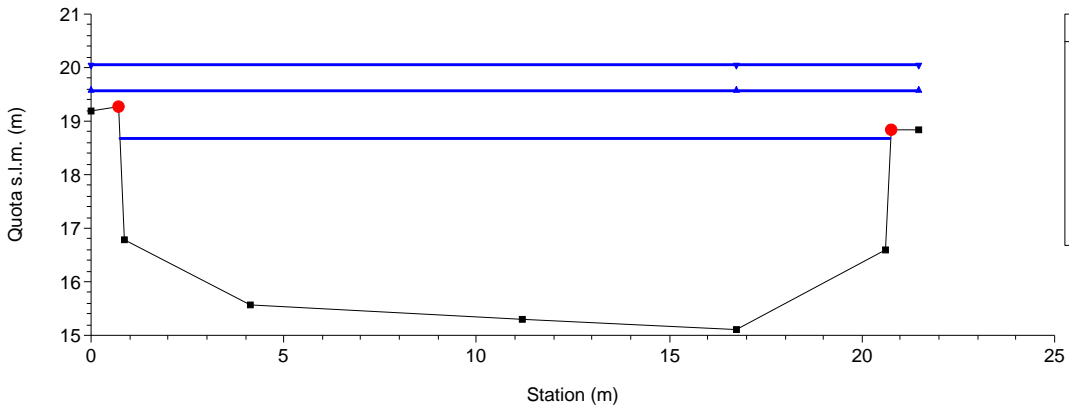
RS = 71



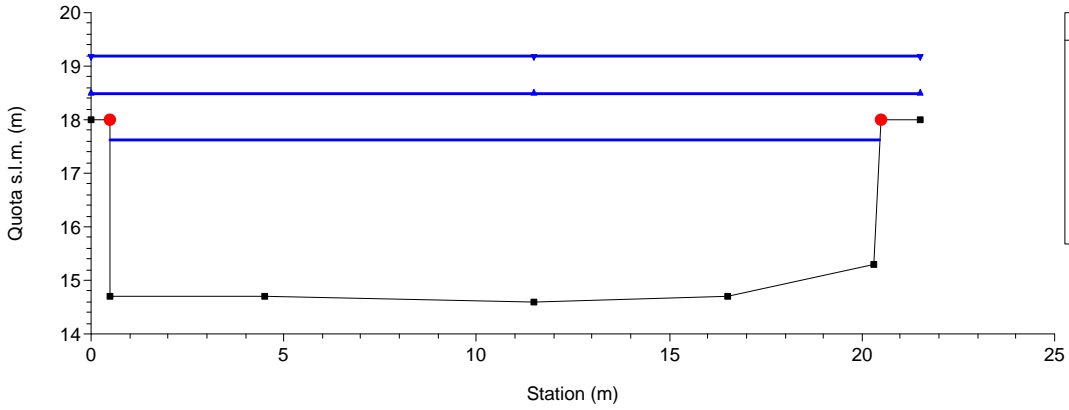
RS = 70.5 BR U



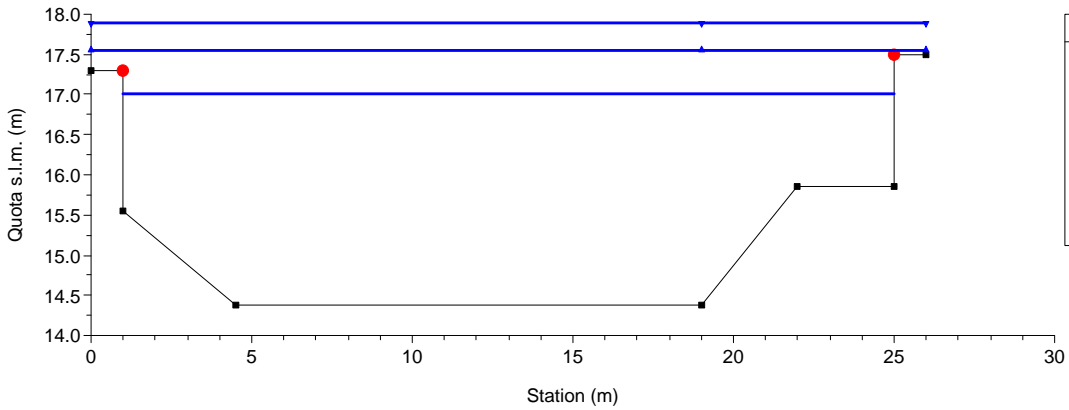
RS = 70



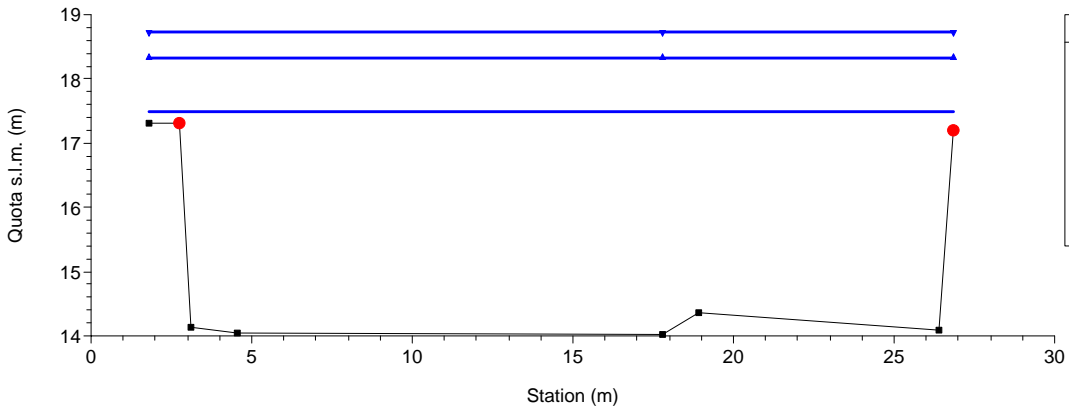
RS = 69



RS = 68



RS = 67

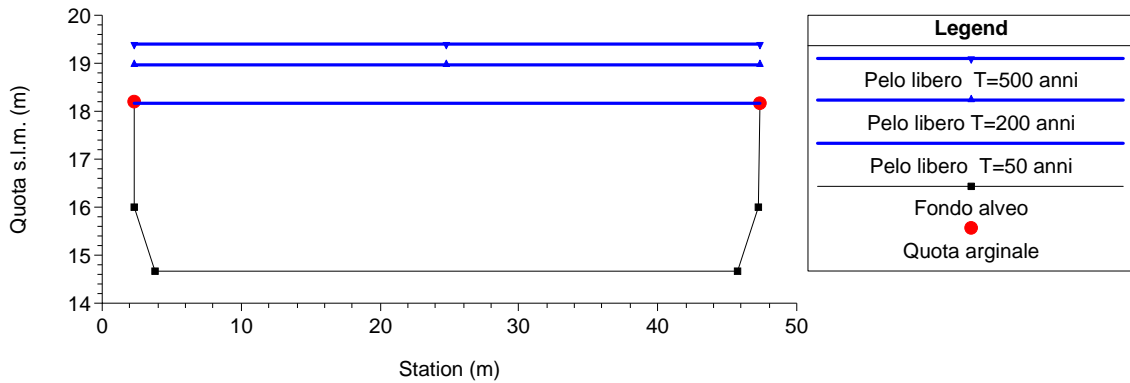


QUILIANO – Sezioni trasversali

QUILIANO 31/01/01

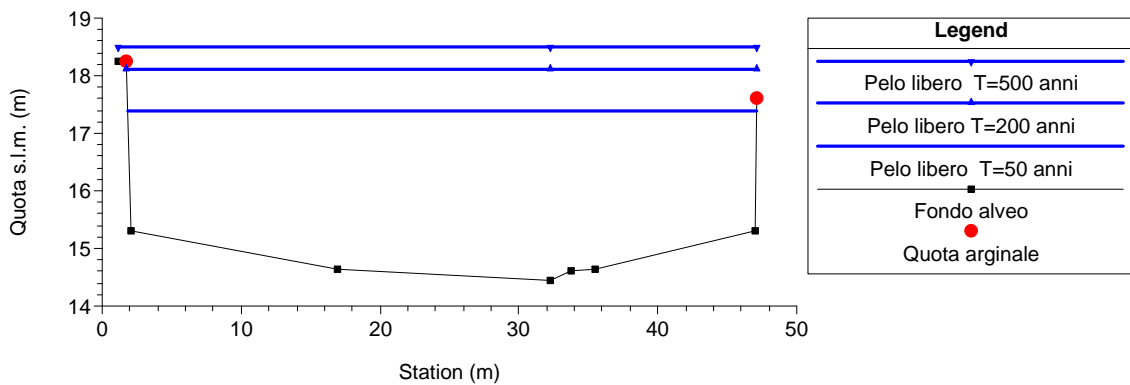
quiliano-31/01/01

River = quiliano Reach = foce RS = 66



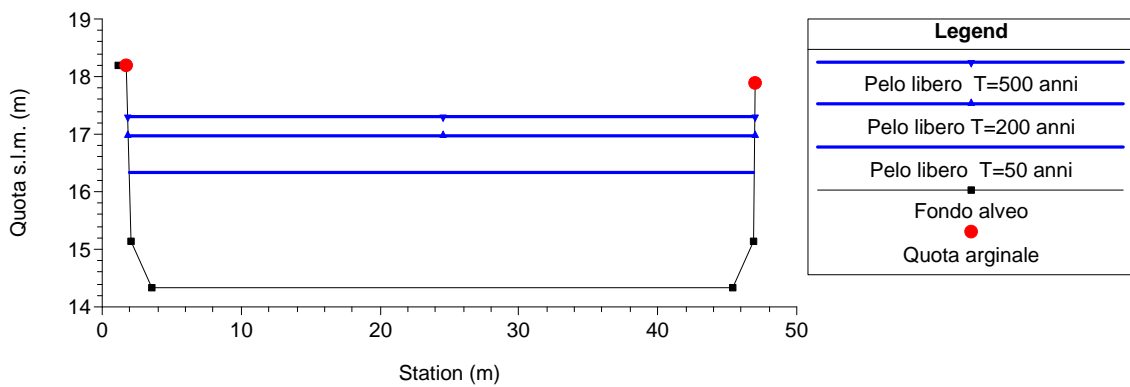
quiliano-31/01/01

River = quiliano Reach = foce RS = 65



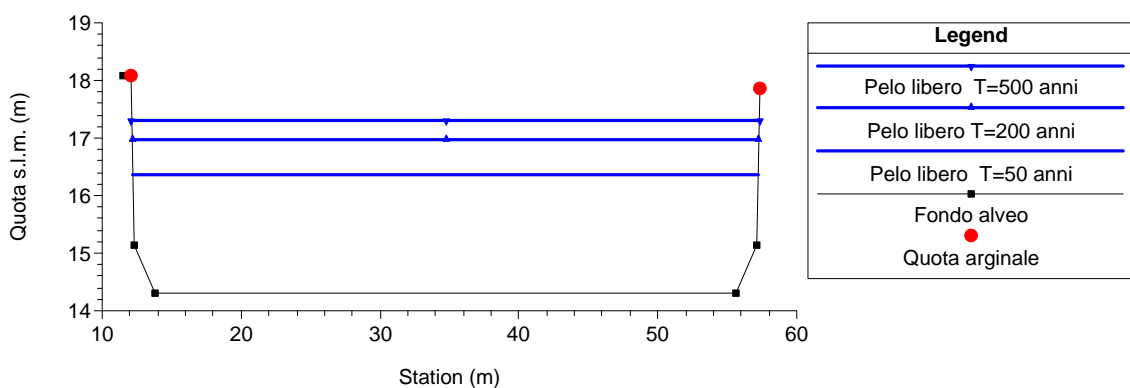
quiliano-31/01/01

River = quiliano Reach = foce RS = 64



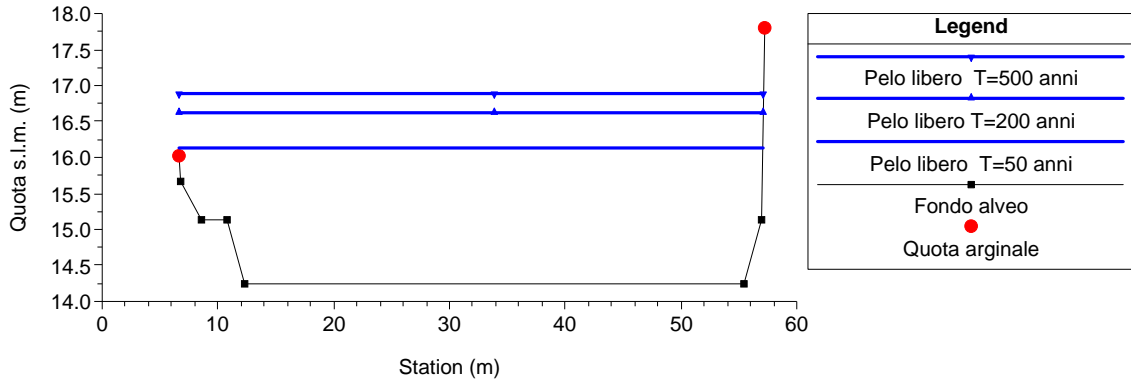
quiliano-31/01/01

River = quiliano Reach = foce RS = 63



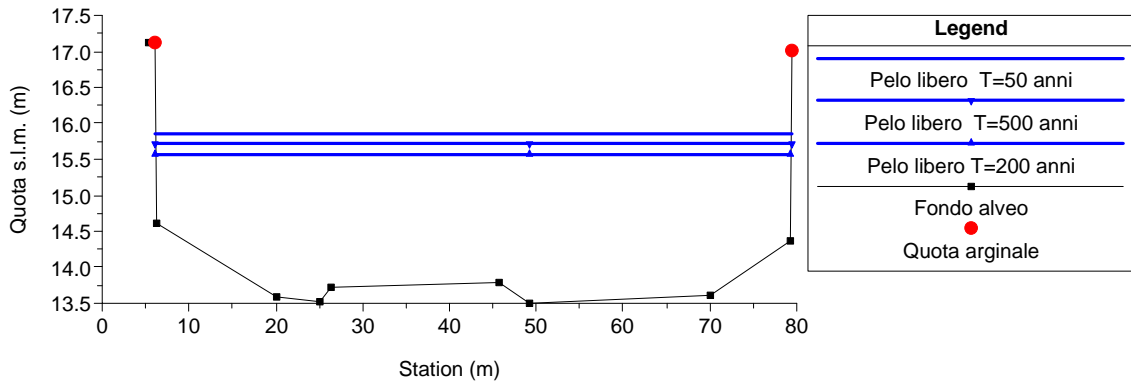
quiliano-31/01/01

River = quiliano Reach = foce RS = 62



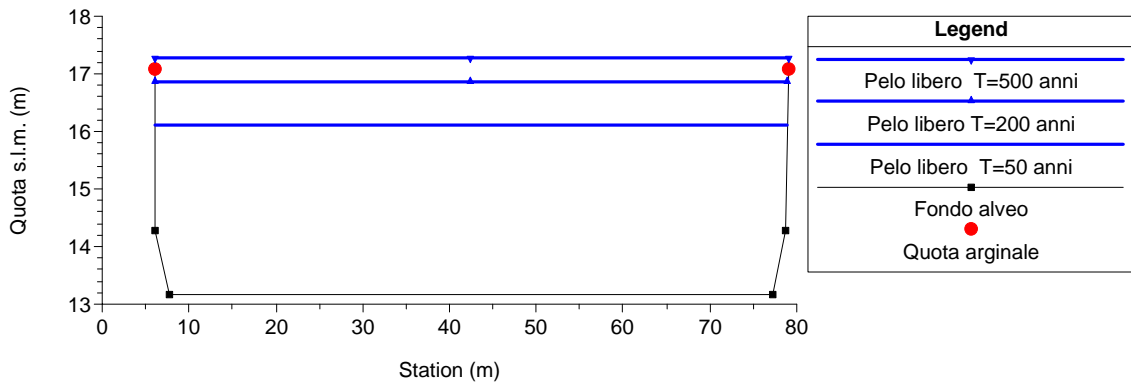
quiliano-31/01/01

River = quiliano Reach = foce RS = 61



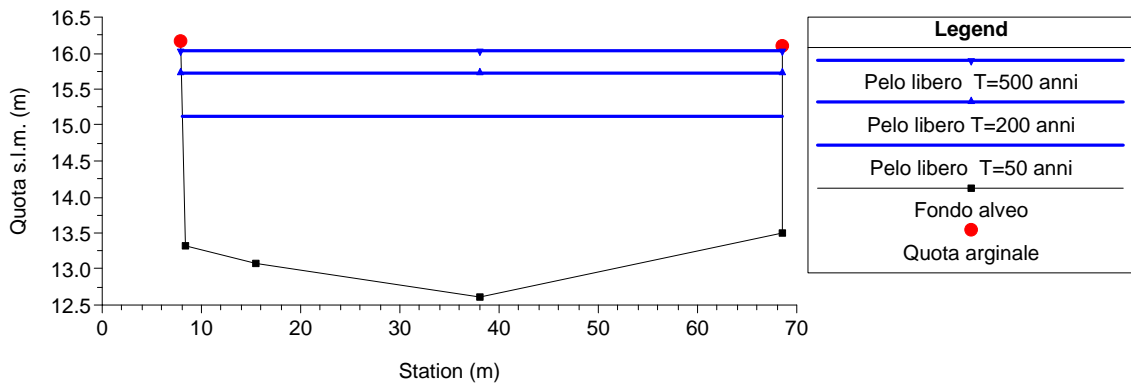
quiliano-31/01/01

River = quiliano Reach = foce RS = 60



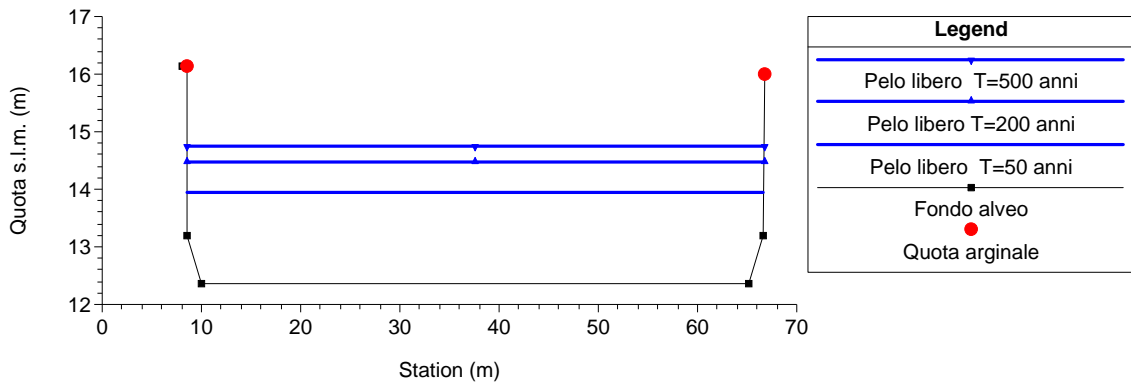
quiliano-31/01/01

River = quiliano Reach = foce RS = 59



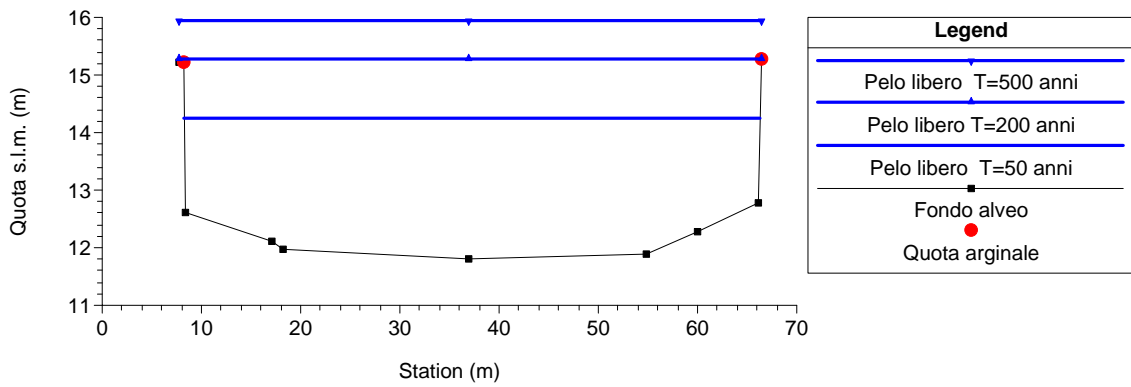
quiliano-31/01/01

River = quiliano Reach = foce RS = 58



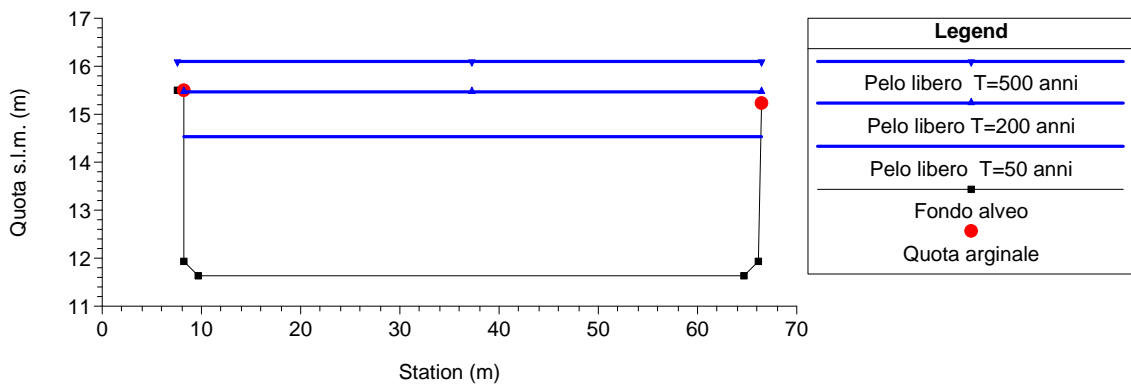
quiliano-31/01/01

River = quiliano Reach = foce RS = 57



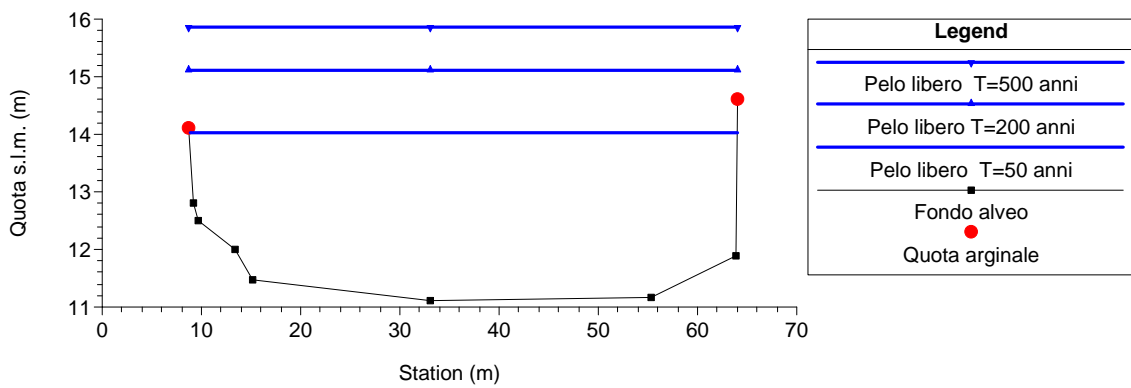
quiliano-31/01/01

River = quiliano Reach = foce RS = 56



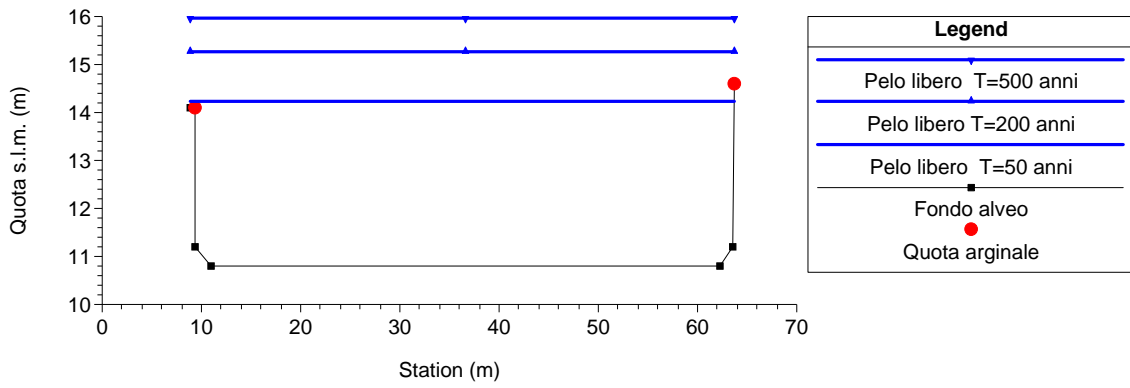
quiliano-31/01/01

River = quiliano Reach = foce RS = 55



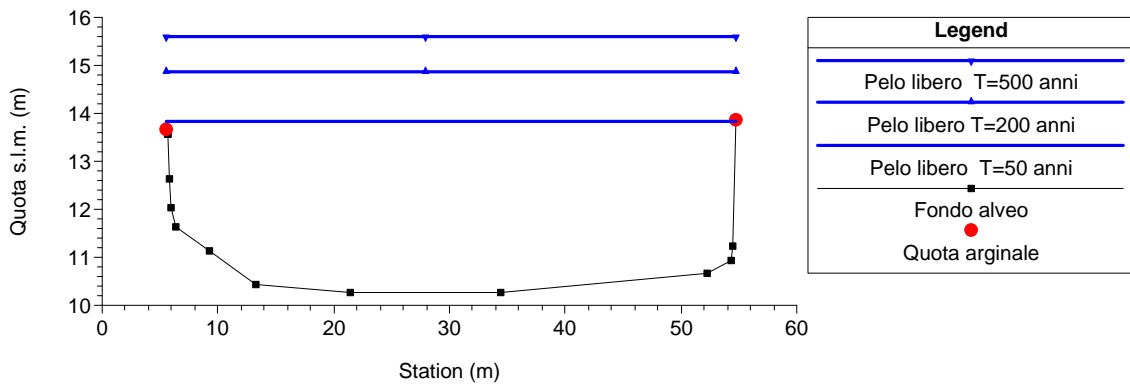
quiliano-31/01/01

River = quiliano Reach = foce RS = 54



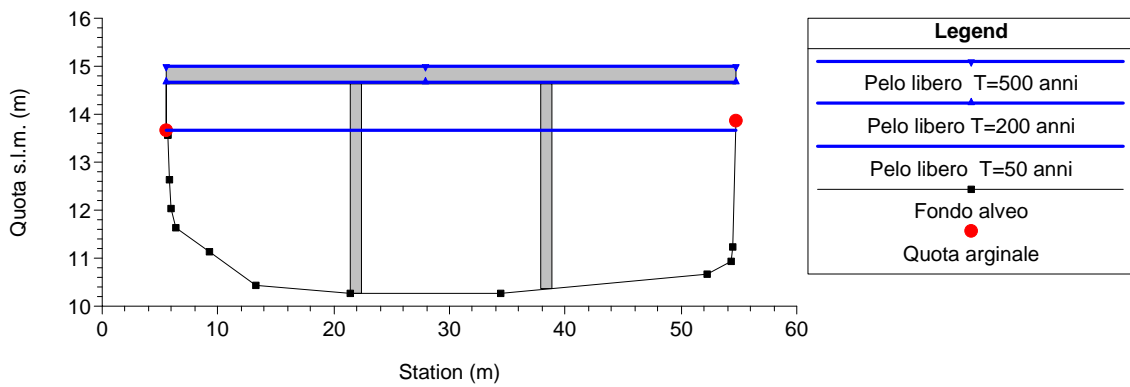
quiliano-31/01/01

River = quiliano Reach = foce RS = 53.6



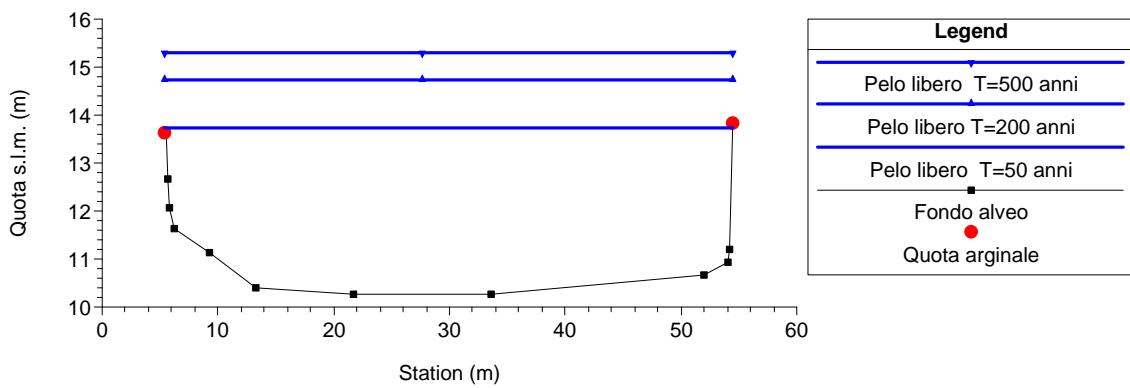
quiliano-31/01/01

River = quiliano Reach = foce RS = 53.5 BR U



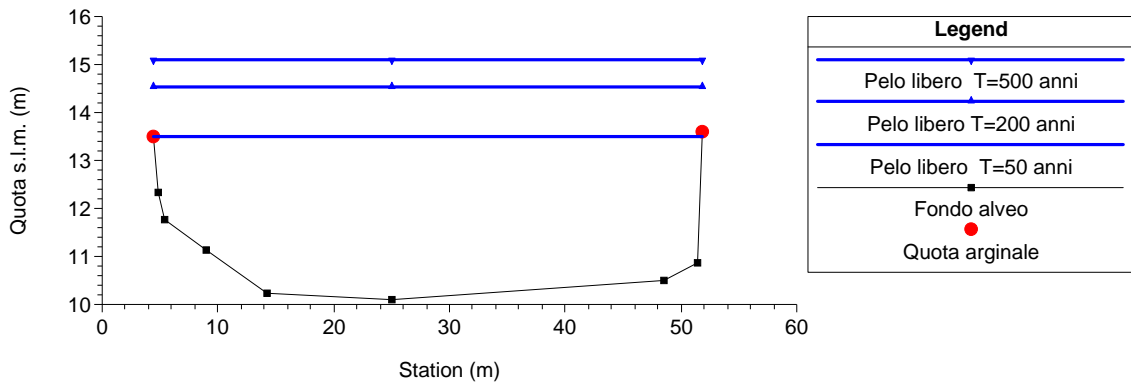
quiliano-31/01/01

River = quiliano Reach = foce RS = 53.4



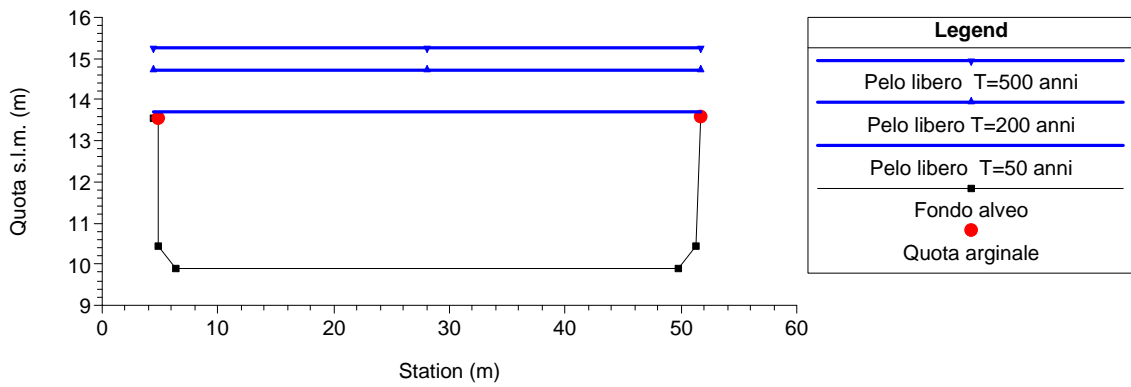
quiliano-31/01/01

River = quiliano Reach = foce RS = 53



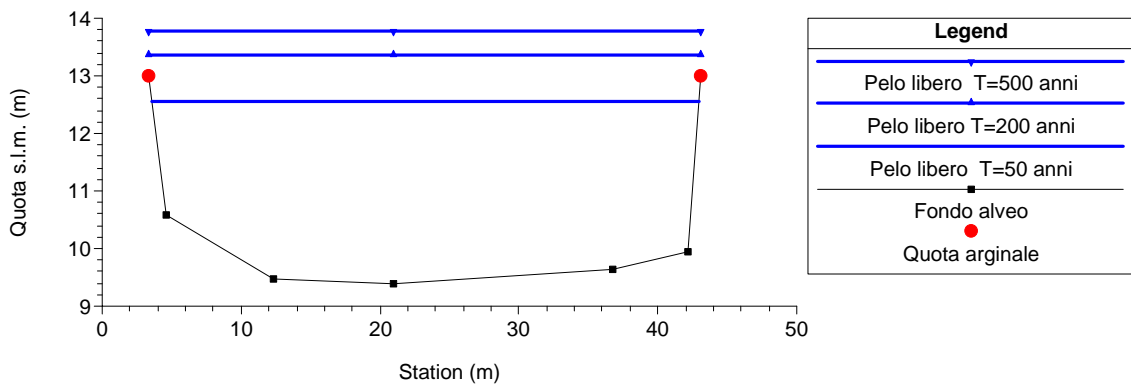
quiliano-31/01/01

River = quiliano Reach = foce RS = 52



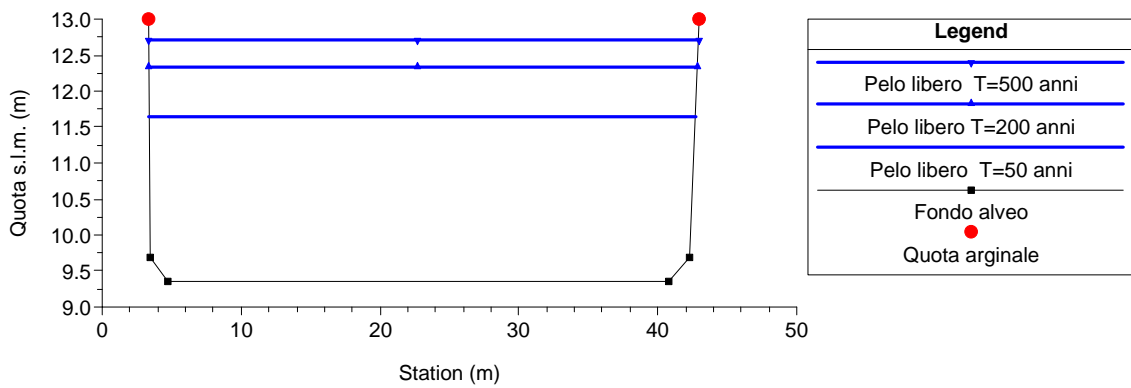
quiliano-31/01/01

River = quiliano Reach = foce RS = 51



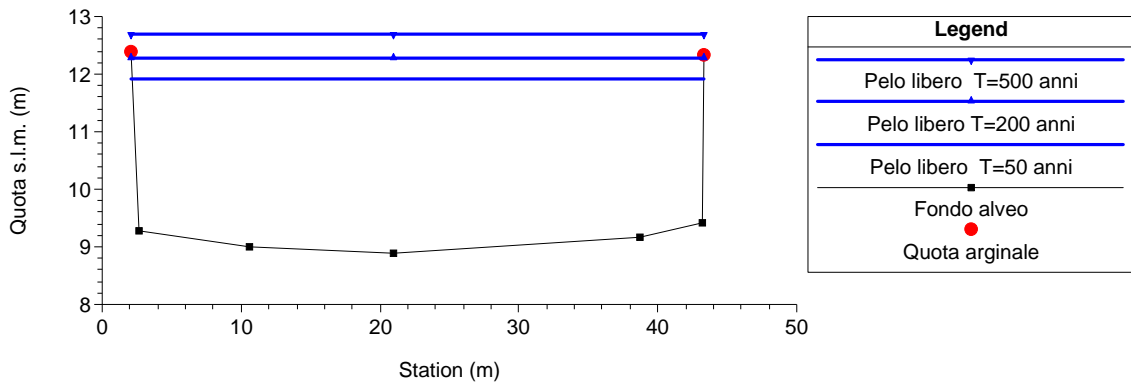
quiliano-31/01/01

River = quiliano Reach = foce RS = 50



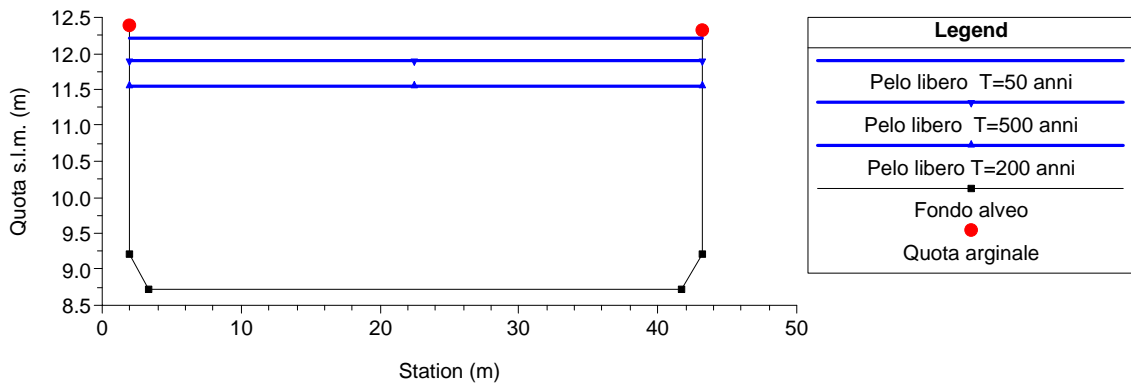
quiliano-31/01/01

River = quiliano Reach = foce RS = 49



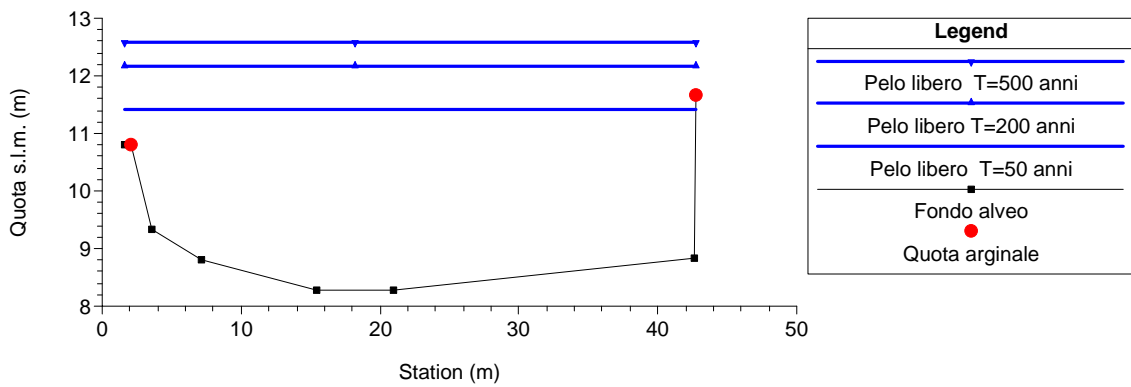
quiliano-31/01/01

River = quiliano Reach = foce RS = 48



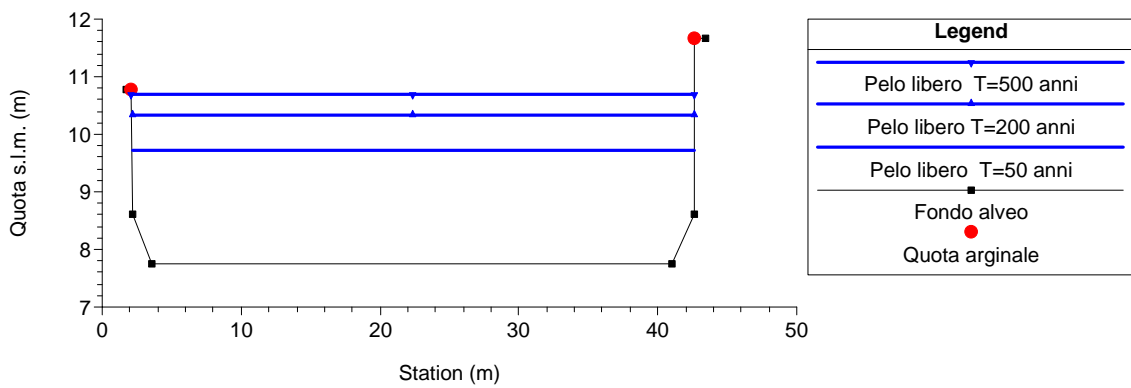
quiliano-31/01/01

River = quiliano Reach = foce RS = 47



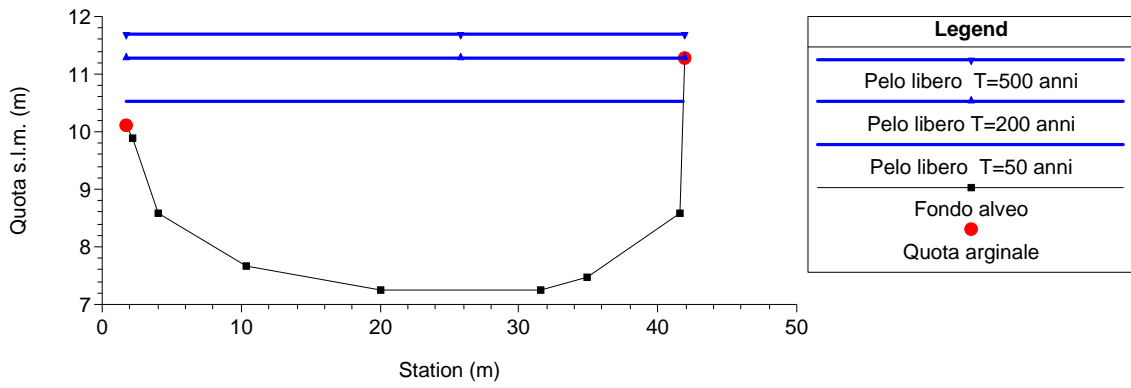
quiliano-31/01/01

River = quiliano Reach = foce RS = 46



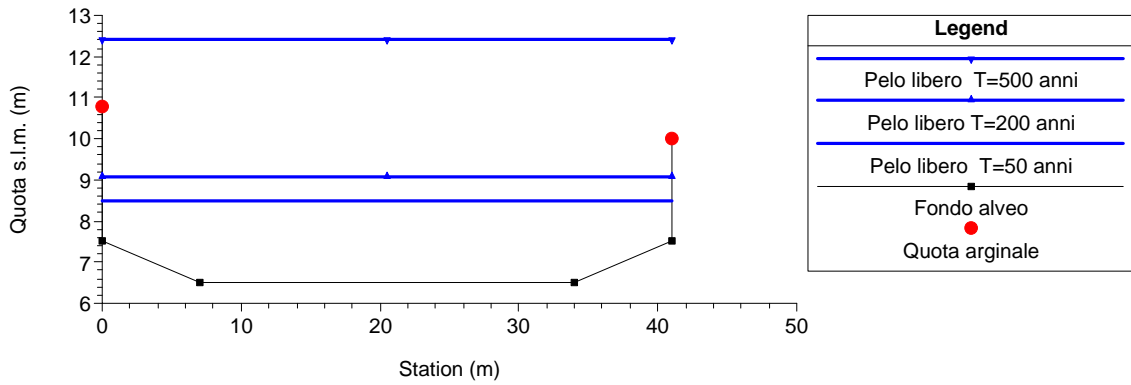
quiliano-31/01/01

River = quiliano Reach = foce RS = 45



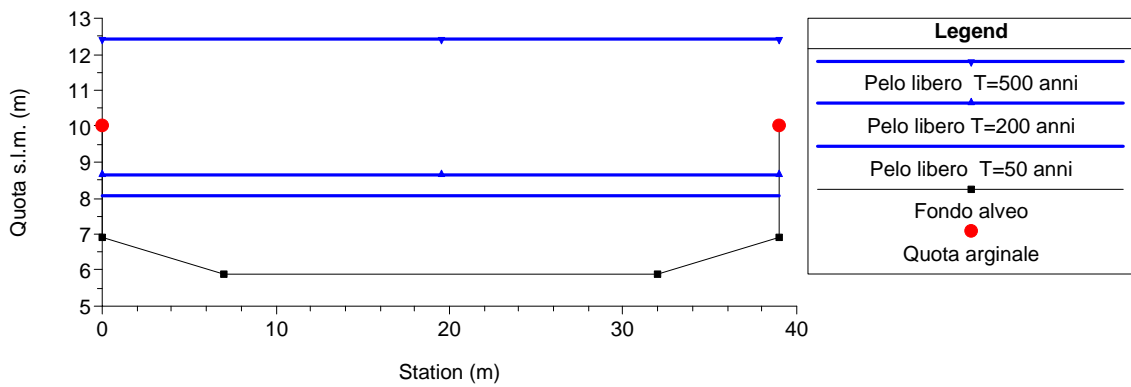
quiliano-31/01/01

River = quiliano Reach = foce RS = 44



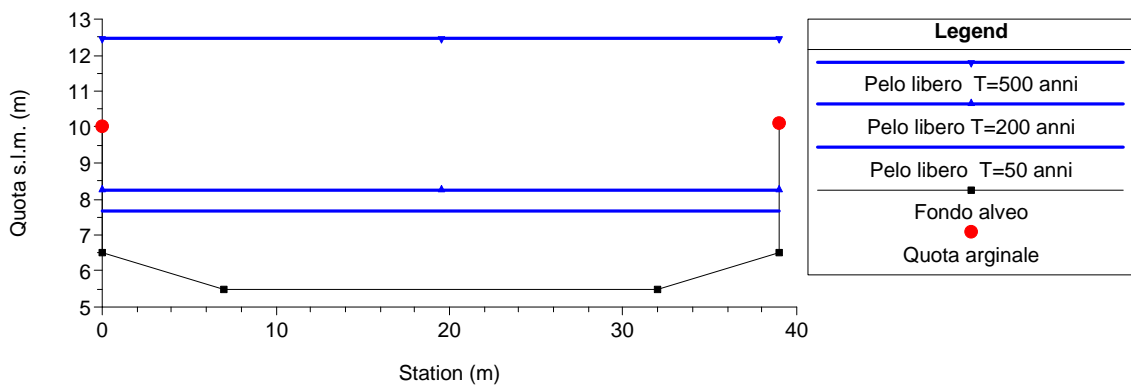
quiliano-31/01/01

River = quiliano Reach = foce RS = 43



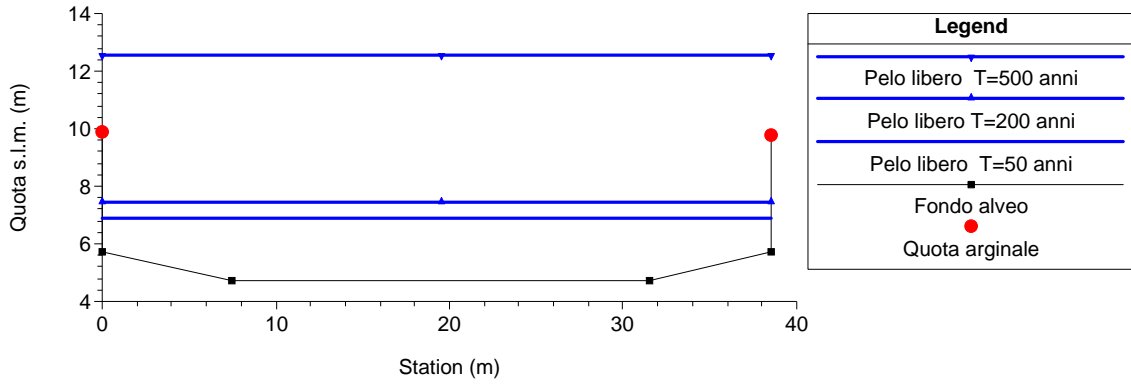
quiliano-31/01/01

River = quiliano Reach = foce RS = 42



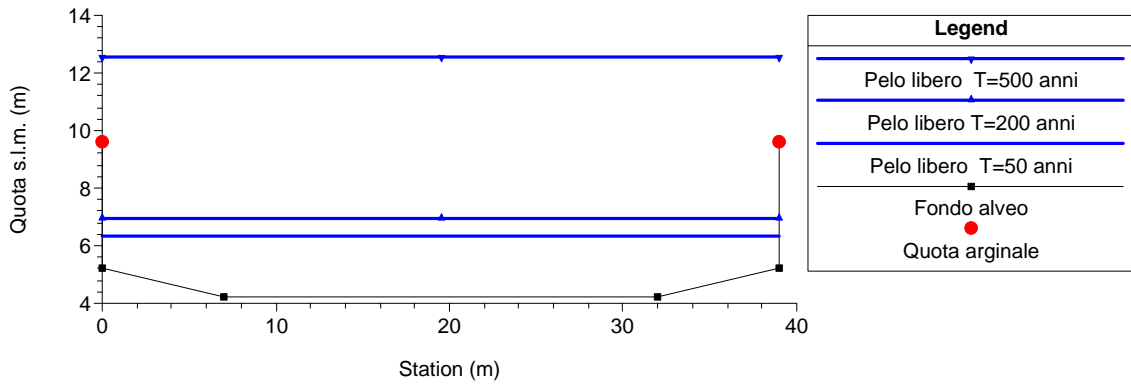
quiliano-31/01/01

River = quiliano Reach = foce RS = 41



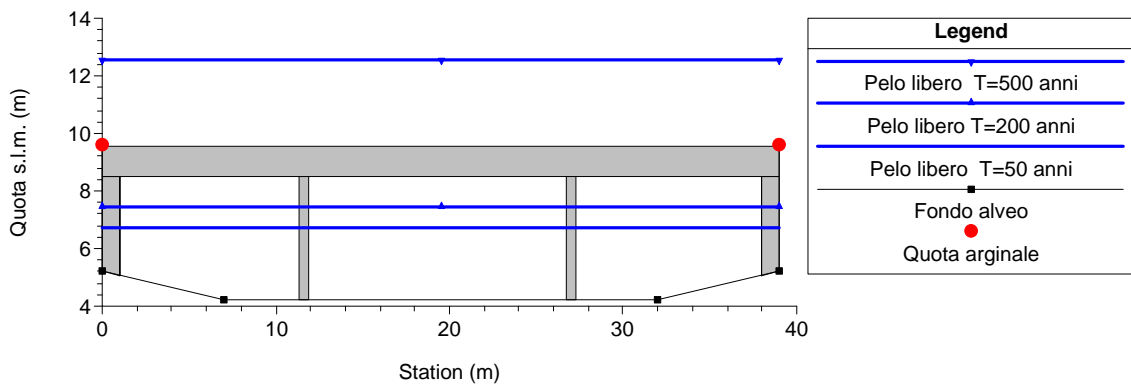
quiliano-31/01/01

River = quiliano Reach = foce RS = 40



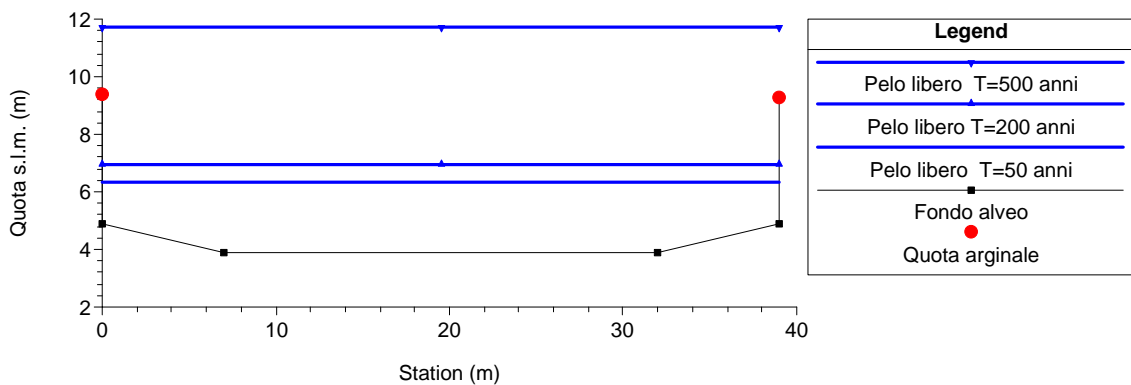
quiliano-31/01/01

River = quiliano Reach = foce RS = 39 BR U



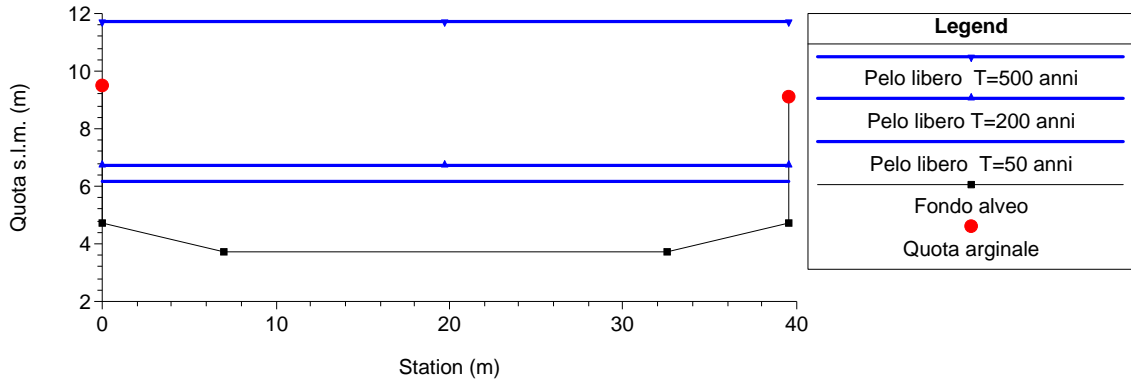
quiliano-31/01/01

River = quiliano Reach = foce RS = 38



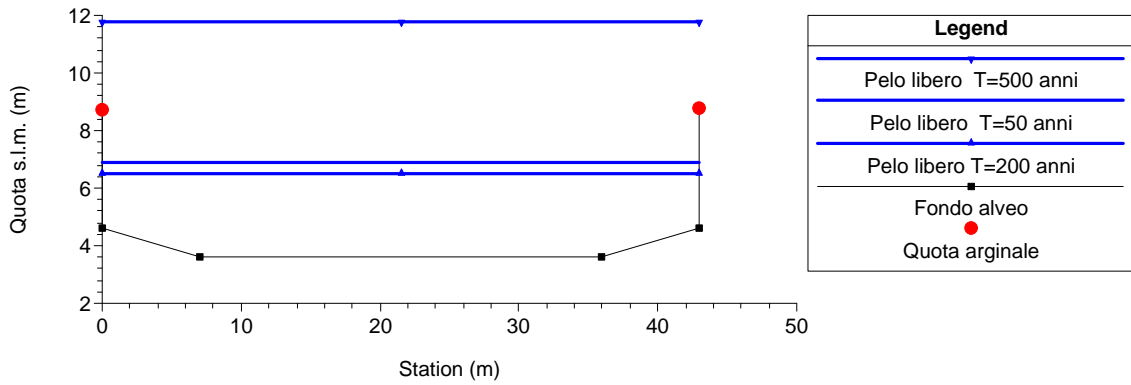
quiliano-31/01/01

River = quiliano Reach = foce RS = 37



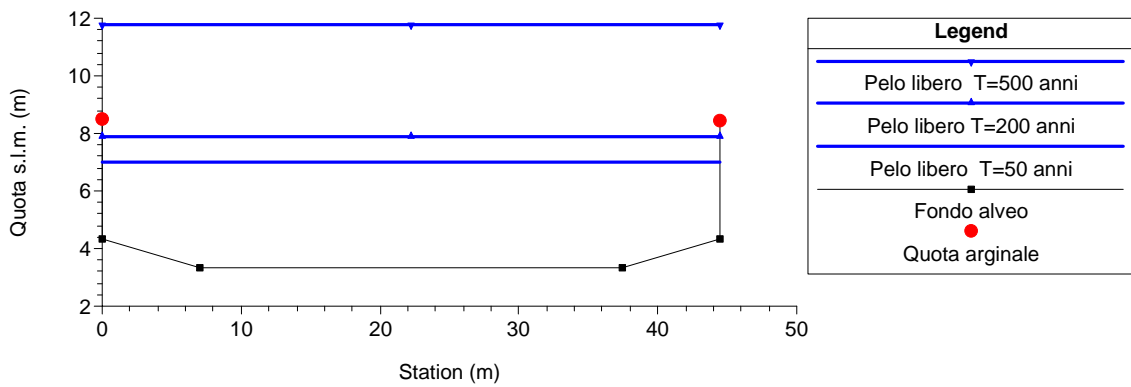
quiliano-31/01/01

River = quiliano Reach = foce RS = 36



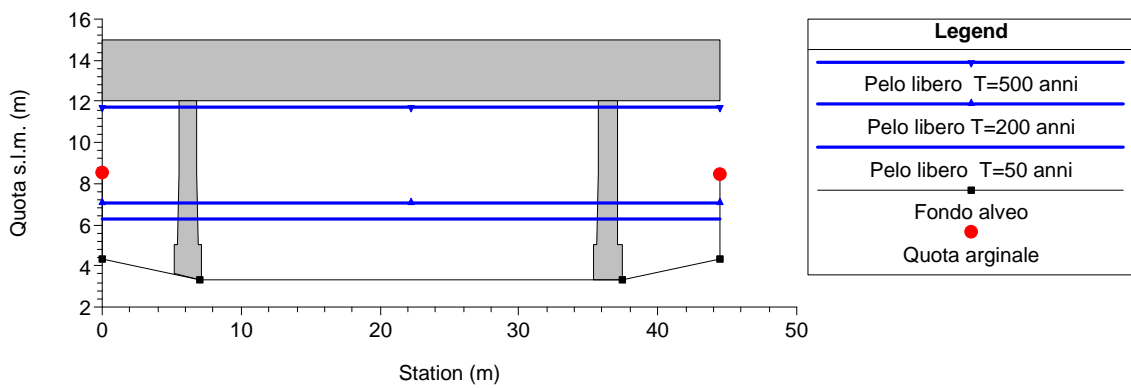
quiliano-31/01/01

River = quiliano Reach = foce RS = 35



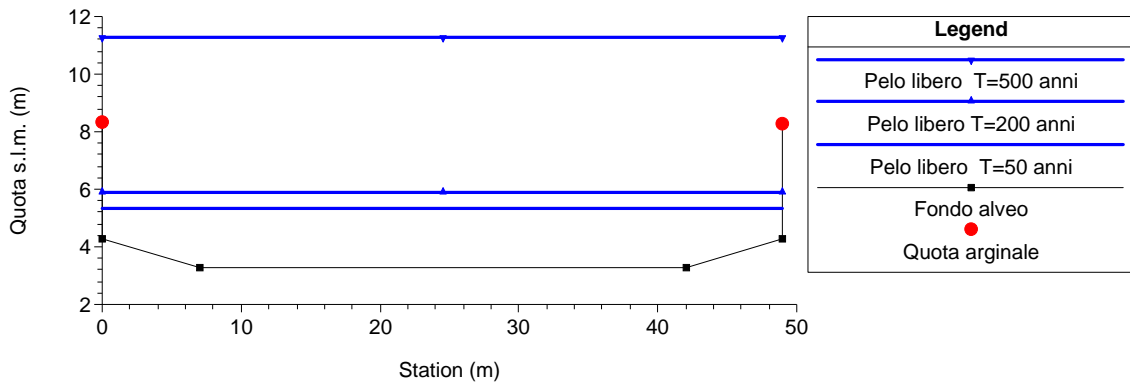
quiliano-31/01/01

River = quiliano Reach = foce RS = 34 BR U



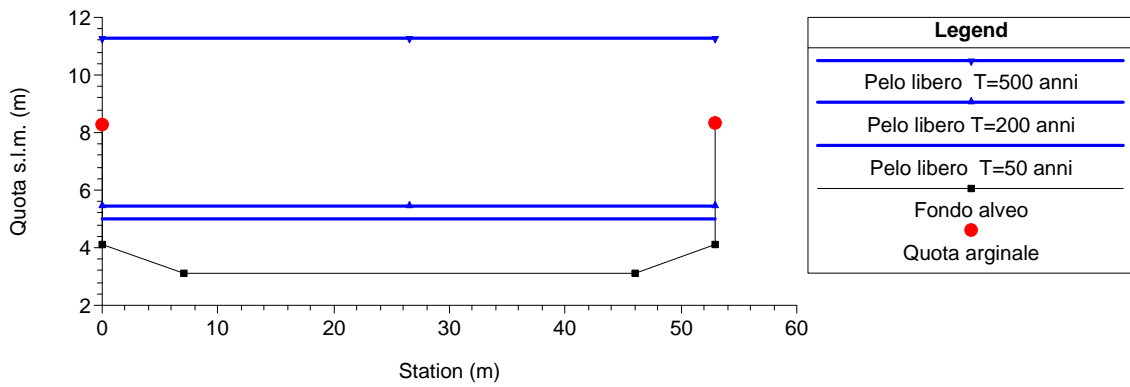
quiliano-31/01/01

River = quiliano Reach = foce RS = 33



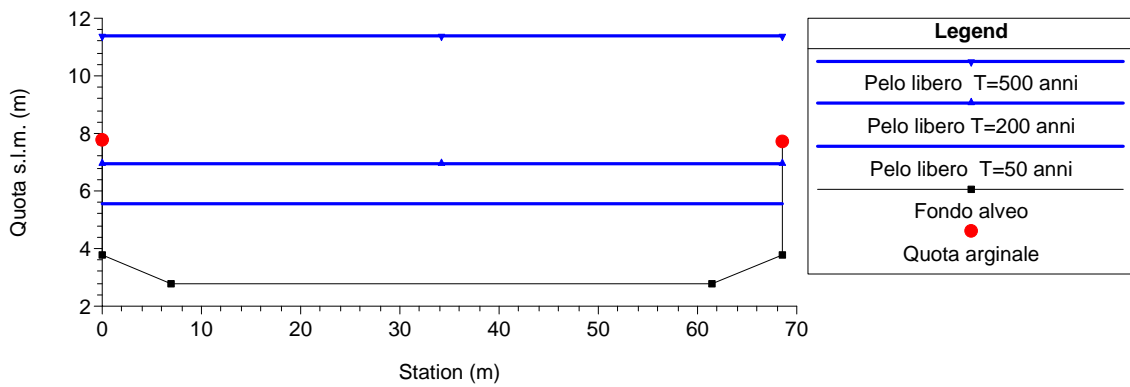
quiliano-31/01/01

River = quiliano Reach = foce RS = 32



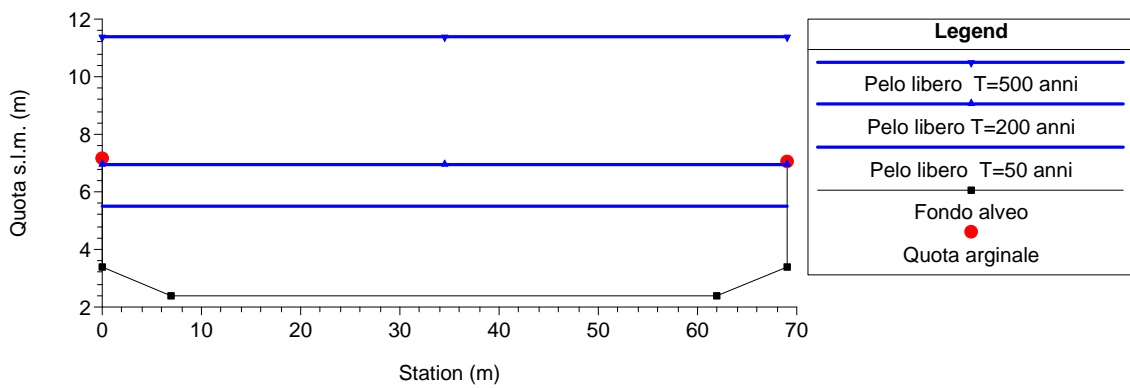
quiliano-31/01/01

River = quiliano Reach = foce RS = 31



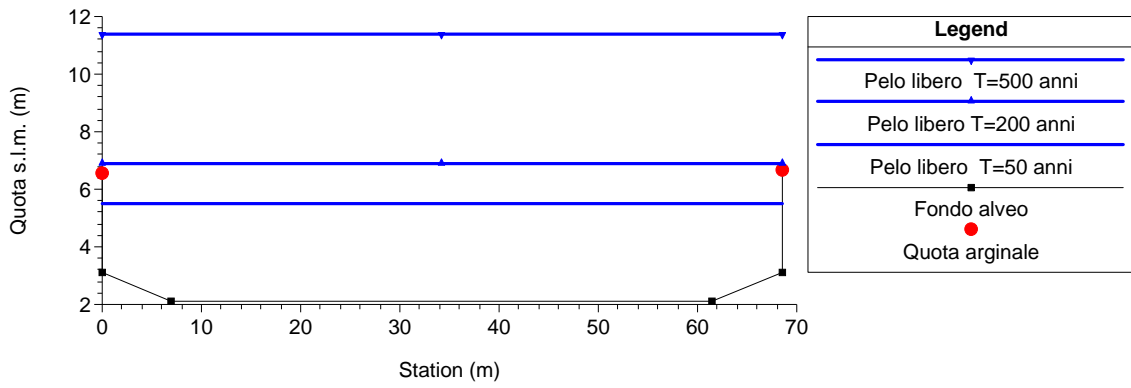
quiliano-31/01/01

River = quiliano Reach = foce RS = 30



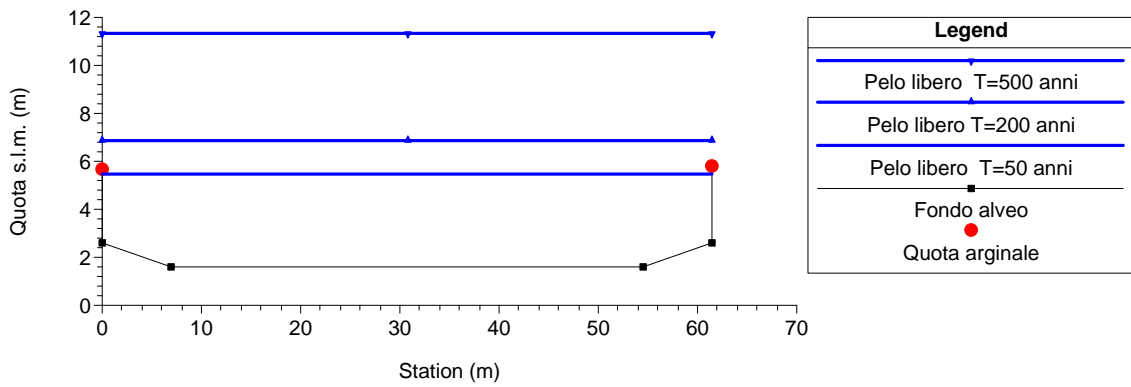
quiliano-31/01/01

River = quiliano Reach = foce RS = 29



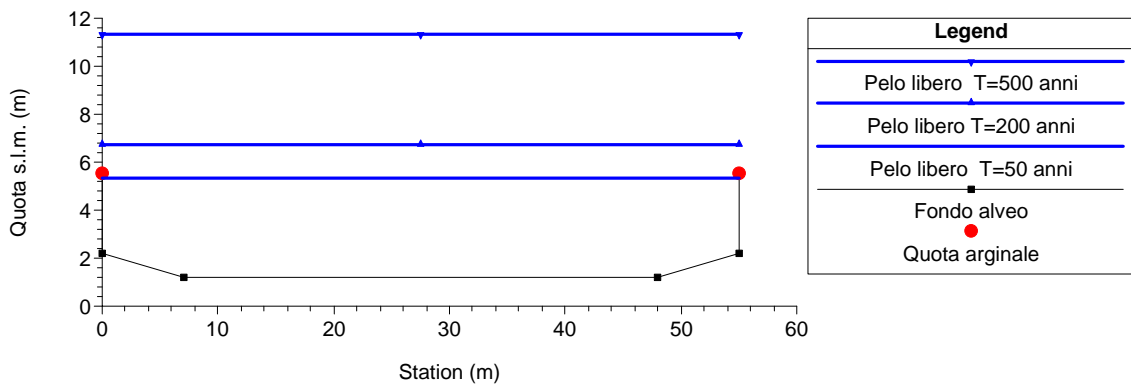
quiliano-31/01/01

River = quiliano Reach = foce RS = 28



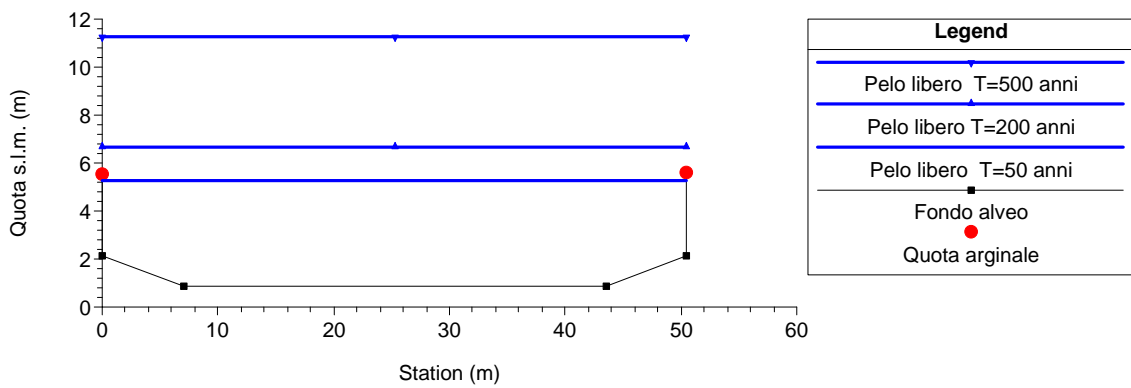
quiliano-31/01/01

River = quiliano Reach = foce RS = 27



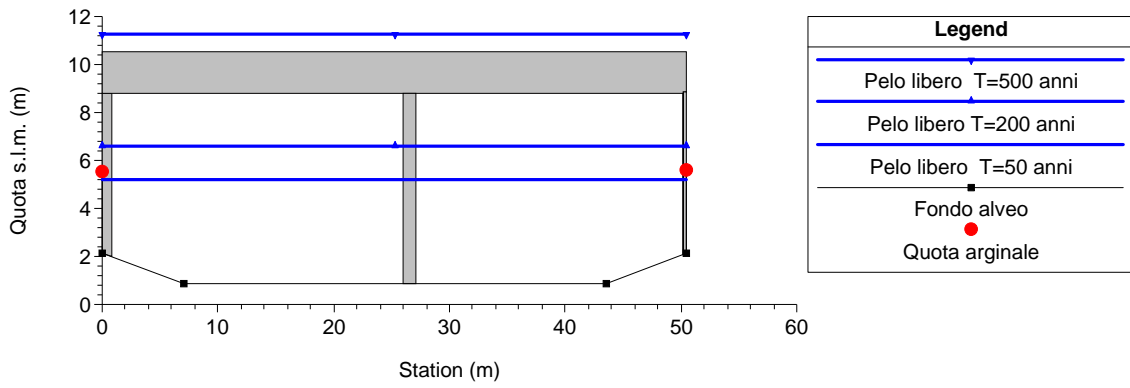
quiliano-31/01/01

River = quiliano Reach = foce RS = 26



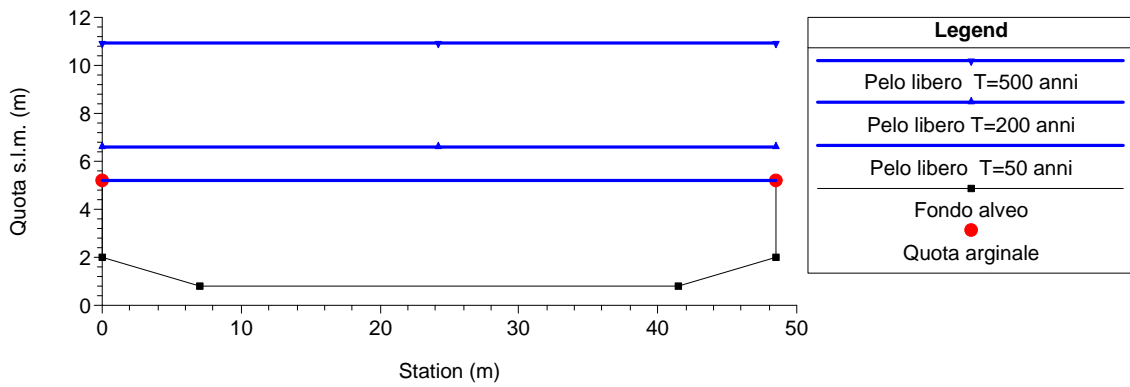
quiliano-31/01/01

River = quiliano Reach = foce RS = 25 BR U



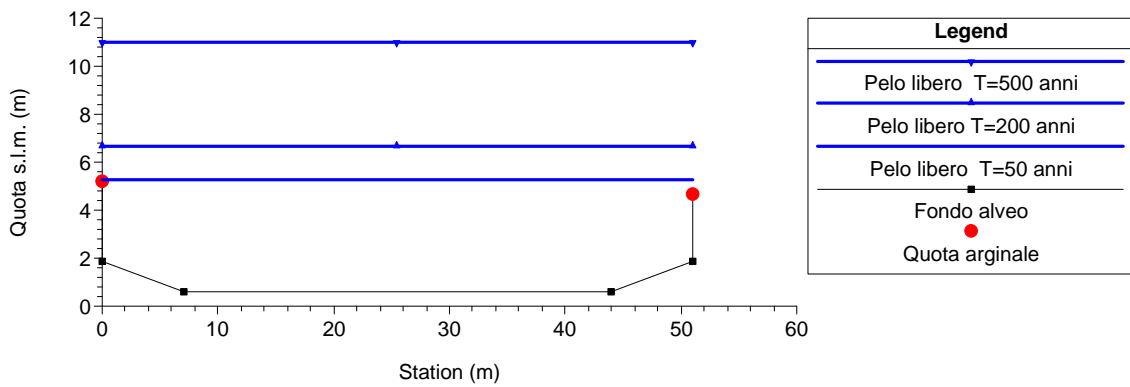
quiliano-31/01/01

River = quiliano Reach = foce RS = 24



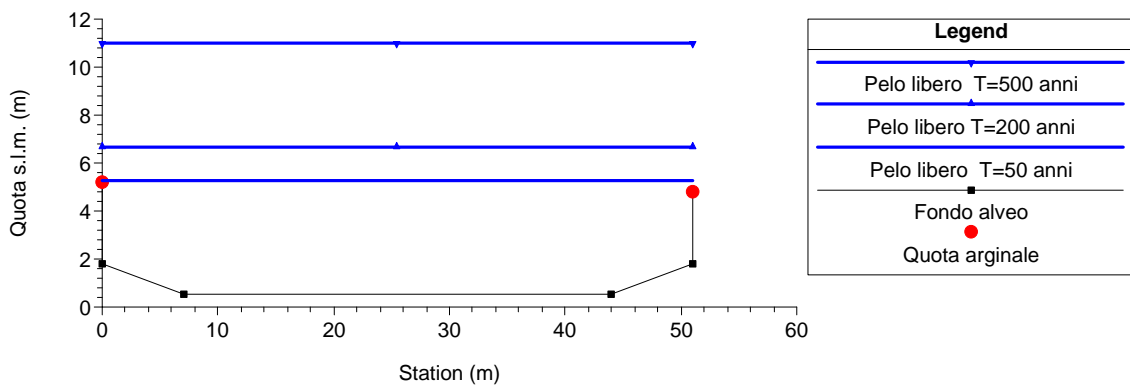
quiliano-31/01/01

River = quiliano Reach = foce RS = 23



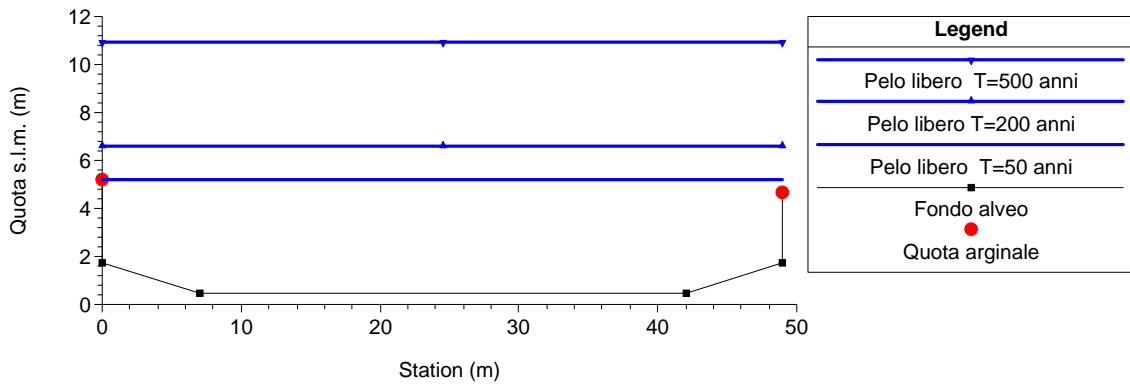
quiliano-31/01/01

River = quiliano Reach = foce RS = 22



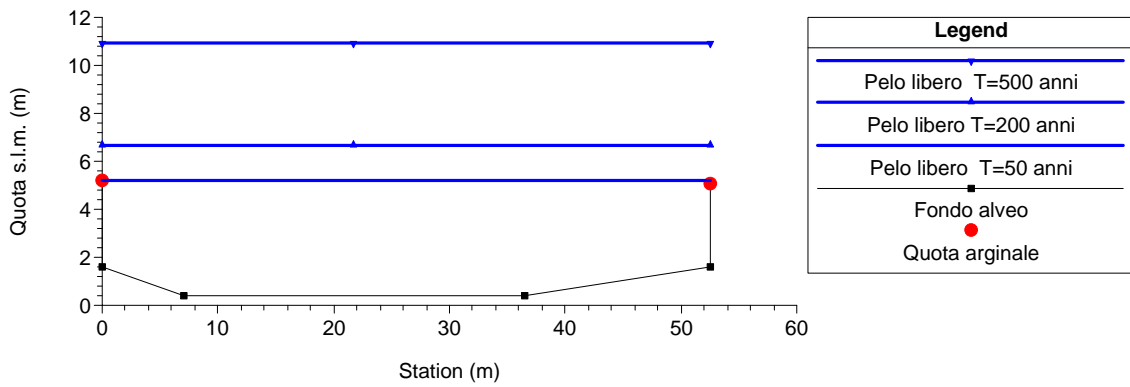
quiliano-31/01/01

River = quiliano Reach = foce RS = 21



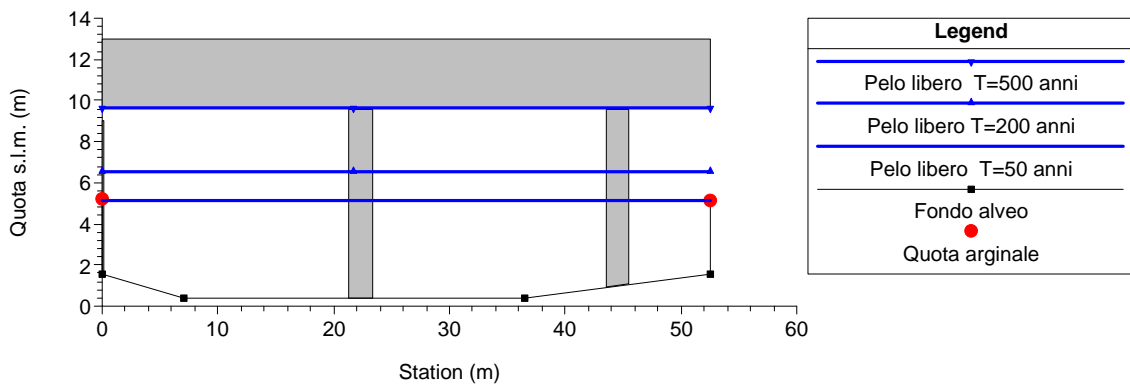
quiliano-31/01/01

River = quiliano Reach = foce RS = 20



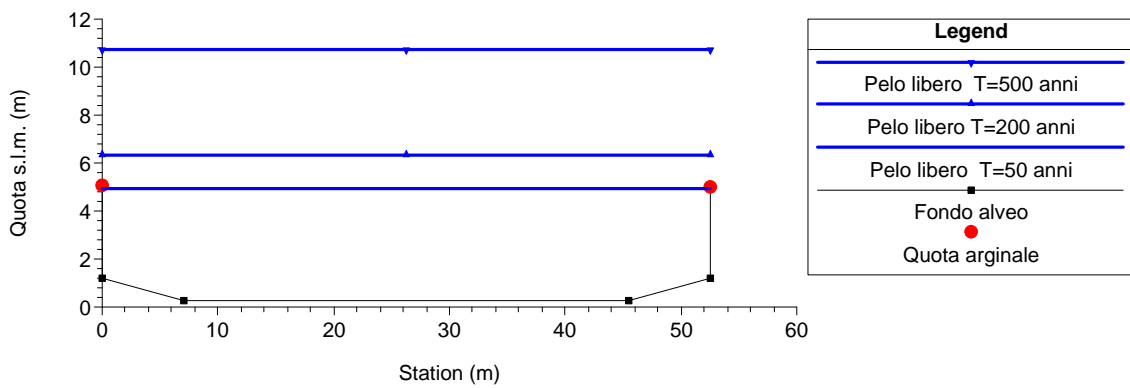
quiliano-31/01/01

River = quiliano Reach = foce RS = 19 BR U



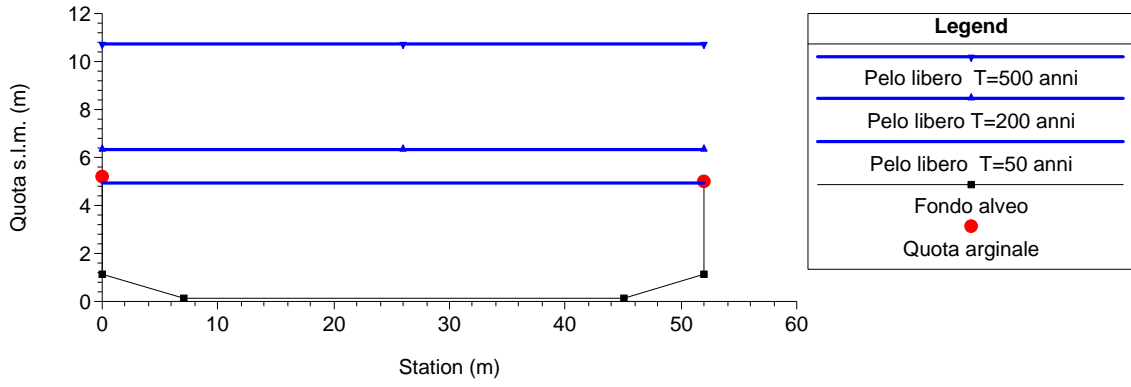
quiliano-31/01/01

River = quiliano Reach = foce RS = 18



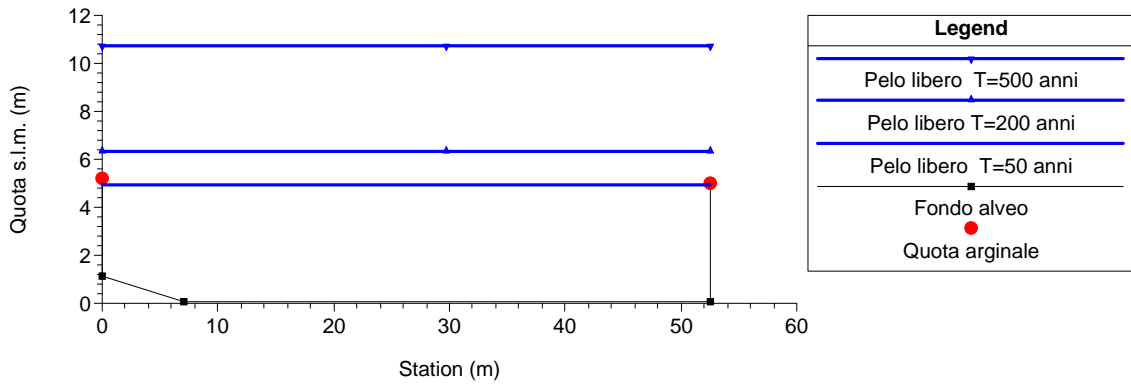
quiliano-31/01/01

River = quiliano Reach = foce RS = 17



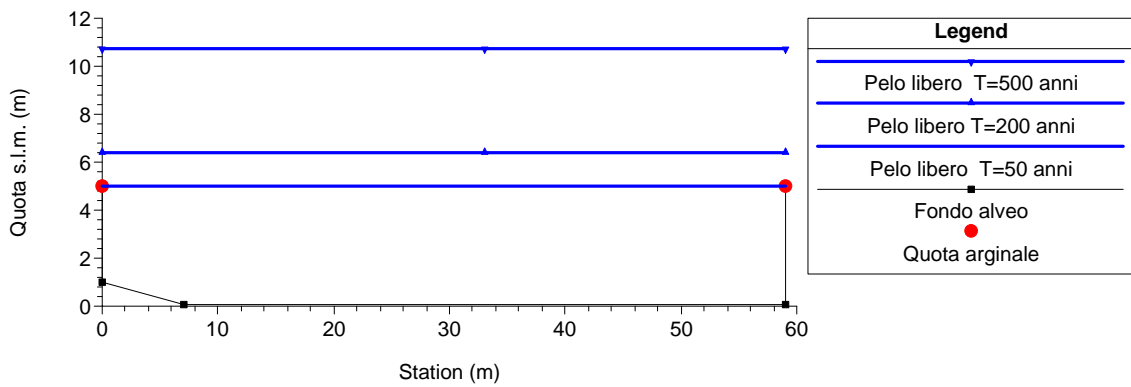
quiliano-31/01/01

River = quiliano Reach = foce RS = 16



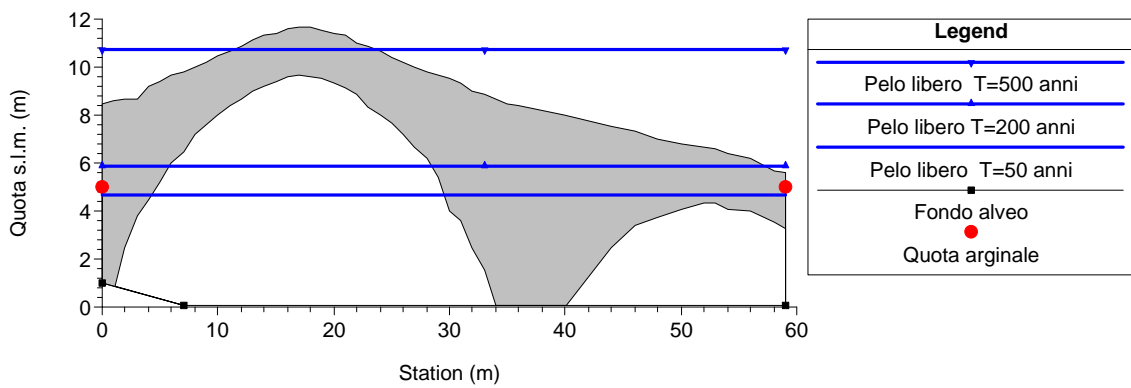
quiliano-31/01/01

River = quiliano Reach = foce RS = 15



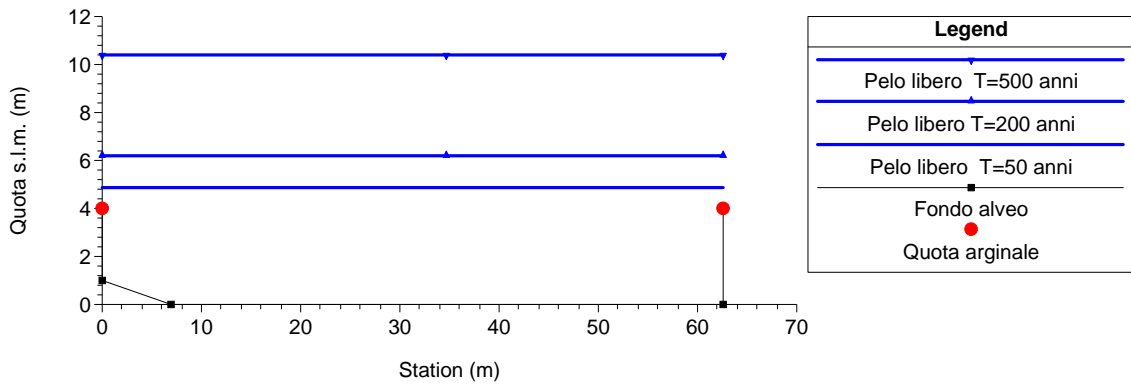
quiliano-31/01/01

River = quiliano Reach = foce RS = 14 BR U



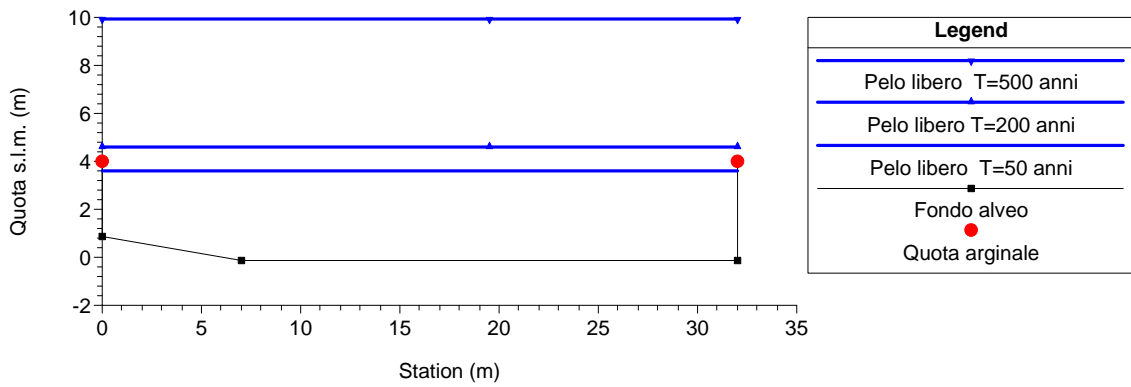
quiliano-31/01/01

River = quiliano Reach = foce RS = 13



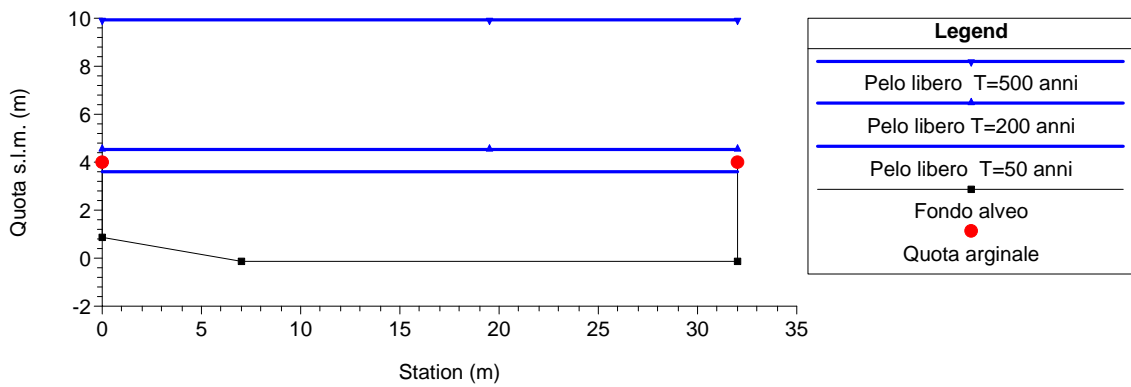
quiliano-31/01/01

River = quiliano Reach = foce RS = 12.5



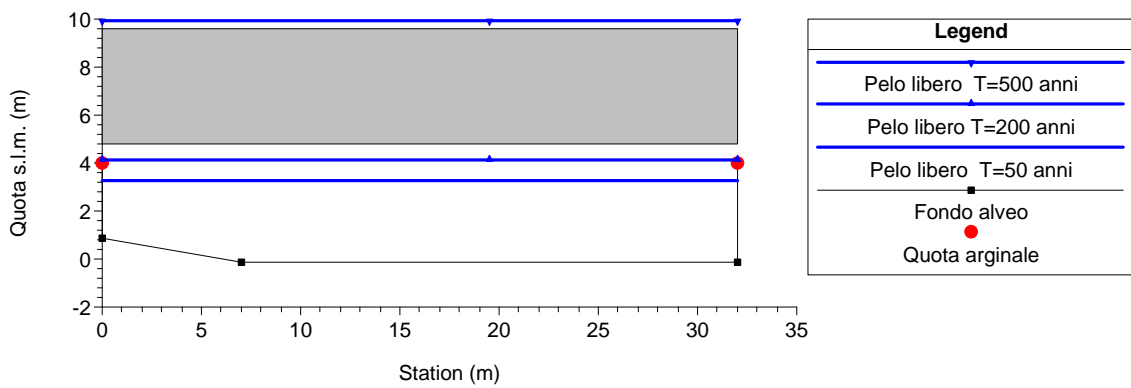
quiliano-31/01/01

River = quiliano Reach = foce RS = 12



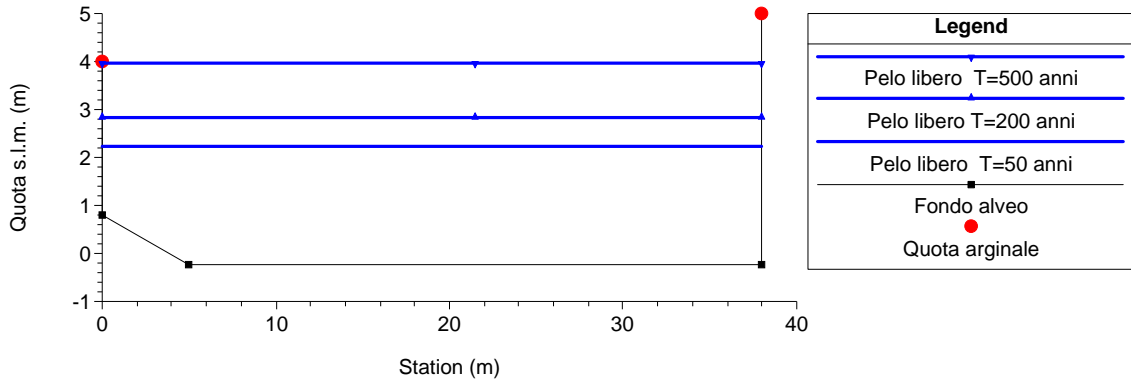
quiliano-31/01/01

River = quiliano Reach = foce RS = 11 BR U



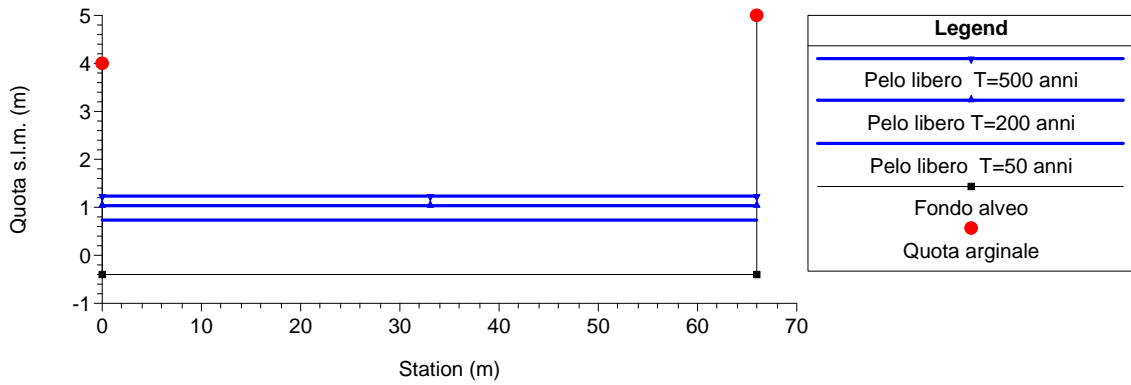
quiliano-31/01/01

River = quiliano Reach = foce RS = 10



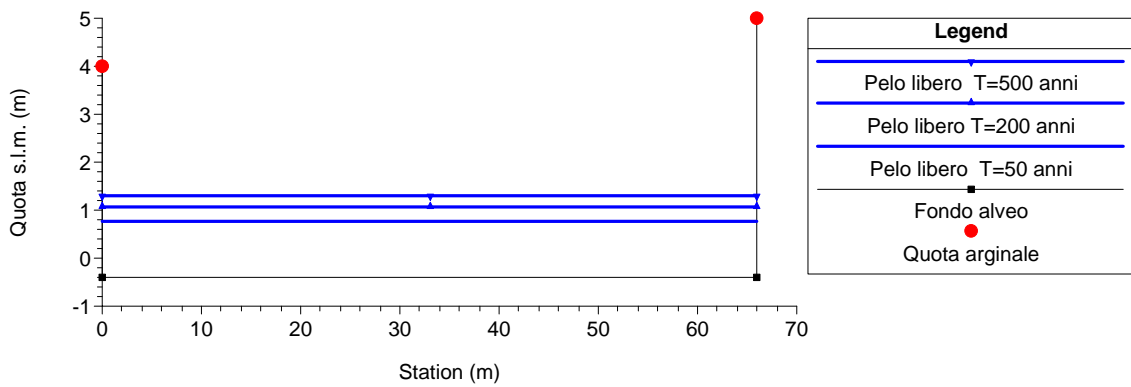
quiliano-31/01/01

River = quiliano Reach = foce RS = 9



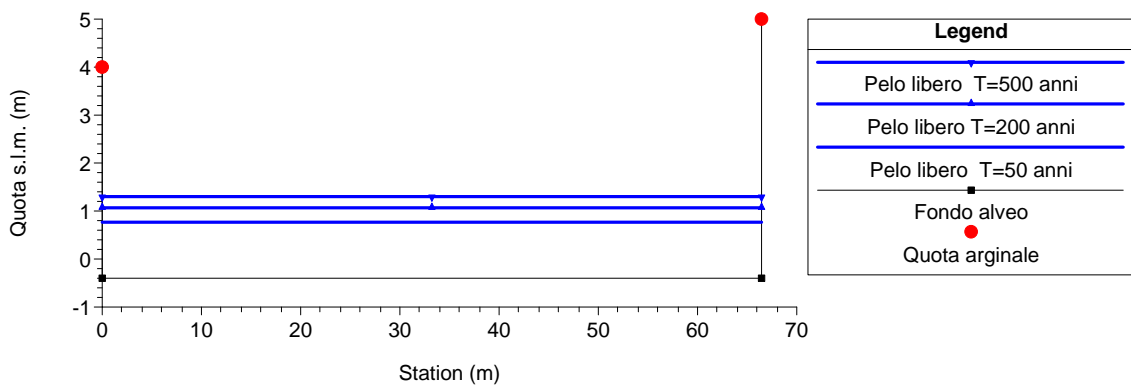
quiliano-31/01/01

River = quiliano Reach = foce RS = 8



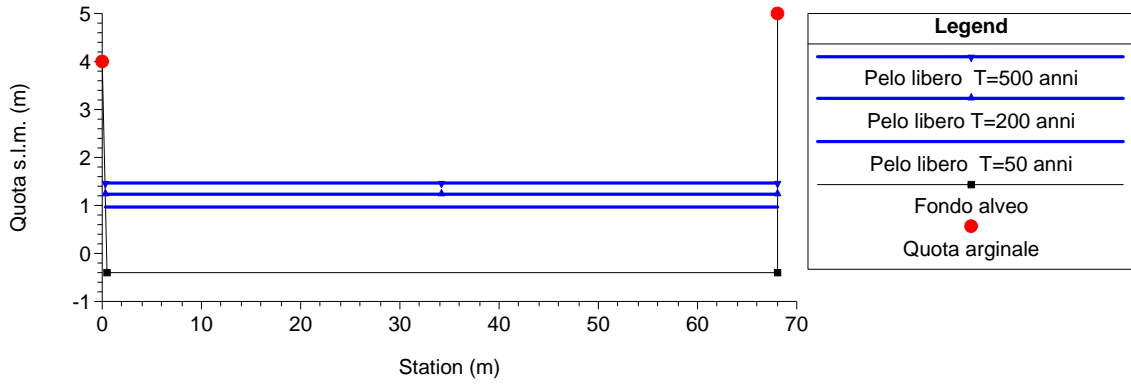
quiliano-31/01/01

River = quiliano Reach = foce RS = 7



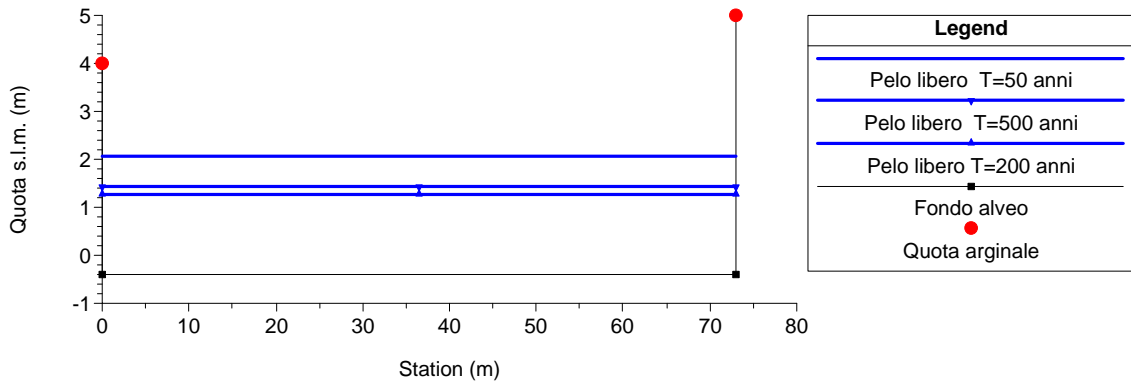
quiliano-31/01/01

River = quiliano Reach = foce RS = 6



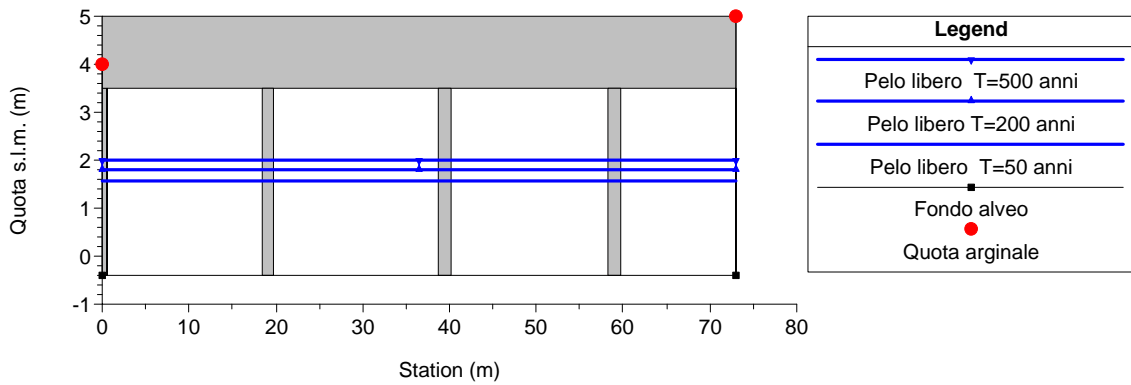
quiliano-31/01/01

River = quiliano Reach = foce RS = 5



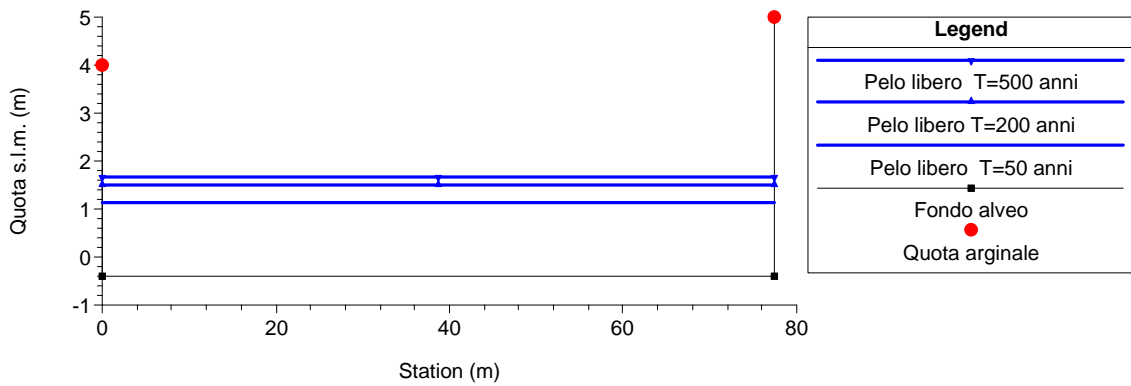
quiliano-31/01/01

River = quiliano Reach = foce RS = 4 BR U



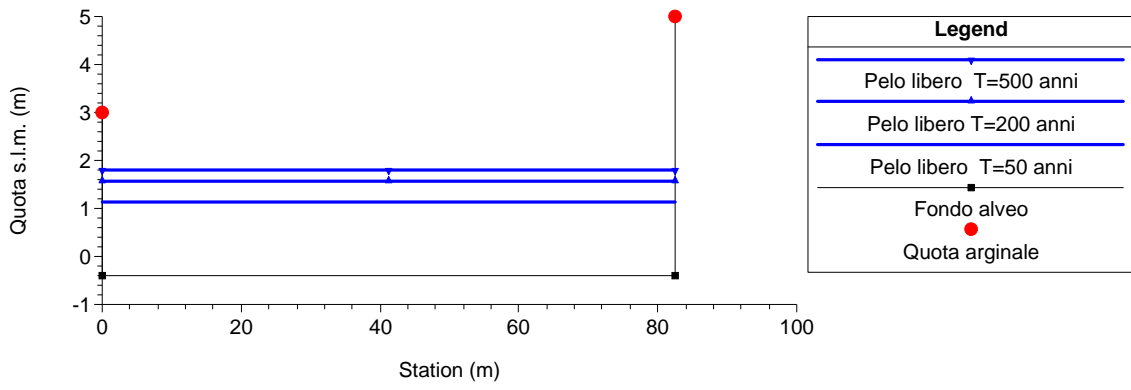
quiliano-31/01/01

River = quiliano Reach = foce RS = 3



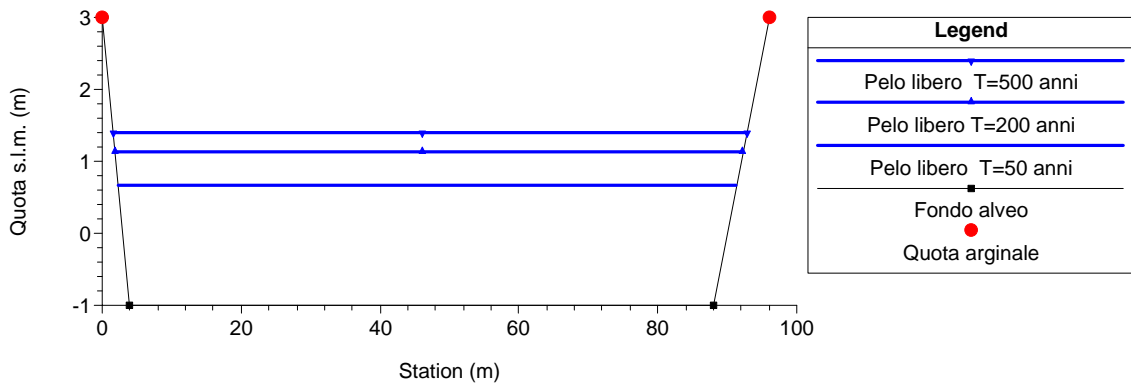
quiliano-31/01/01

River = quiliano Reach = foce RS = 2



quiliano-31/01/01

River = quiliano Reach = foce RS = 1



**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

QUILIANO stato attuale al 31/01/01

- **Loc. Becchi**
- **T. Trexenda**
- **Quiliano monte**
- **Quiliano foce**

Dalle analisi effettuate con la configurazione dell'alveo allo stato attuale (31/01/01) è derivata la redazione delle Tavv. 9 (fasce di inondabilità), 11 (rischio idraulico) e 14 (aree inondabili).

Torrente Quiliano T=50 anni

Sezioni	Portata totale	Fondo alveo	Argine sinistro	Argine destro	Pelo libero	Profondità critica	Energia (m2)	Velocità (m/s)	Area bagnata	N° Froude
121	242	50.2	52.3	52.2	54.59	3.78	55.84	4.95	48.84	0.78
120	242	49.6	59.2	50.7	53.54	3.94	55.38	6	40.3	1.01
119	242	49	62.6	50.9	51.45	3.17	53.98	7.05	34.31	1.66
118	242	48.7	55	50.5	52.46	2.93	53.04	3.38	71.59	0.62
117	242	48.5	55	55.4	52.46	2.88	53	3.28	73.84	0.57
116.5	Bridge									
116	242	48.3	55	55.4	52.05	2.93	52.72	3.61	67.05	0.65
115	242	48.2	51.7	50.6	52.14	2.76	52.64	3.15	76.92	0.54
114	337	46.7	52	47.6	50.53	3.83	52.41	6.06	55.57	1.01
113	337	45.7	51.8	47.7	49.3	4.01	51.52	6.59	51.12	1.22
112	337	45.3	50.5	49.1	50.45	3.76	51.07	3.47	97.24	0.54
111	337	45.1	50.3	50.9	49.14	4.04	50.86	5.81	57.98	1.01
110	337	44.7	48.5	52.1	49.37	3.62	50.31	4.3	78.45	0.66
109	337	44.3	51.8	53.3	48.38	4.08	50.01	5.66	59.55	1
108	337	43.9	46.1	50.5	48.1	3.13	48.84	3.8	88.6	0.62
107	337	43.1	45.3	44.7	48.08	3.26	48.68	3.41	98.89	0.5
106	337	42.4	47.4	44.1	48.08	3.57	48.58	3.13	107.7	0.45
105	337	42	47.3	43.6	46.29	4.29	48.31	6.31	53.43	1
104	337	41.8	47.1	45.3	44.3	3.18	46.69	6.85	49.19	1.65
103	337	39.79	43.05	42.75	43.09	3.53	44.47	5.21	64.6	1.15
102	337	38.97	42.53	40.07	42.12	3.35	43.57	5.35	62.92	1.14
101	337	37.5	41.94	39.97	41.53	4.3	43.03	5.44	61.22	1.17
100	337	37.68	40.25	39.48	41.22	3.17	42.03	4	82.93	0.77
99	337	36.63	39.06	38.69	39.91	3.69	41.53	5.78	55.01	1.2
98	337	34.31	35.4	37.08	38.15	4.44	40.26	6.81	42.46	1.36
97	337	33.33	35.73	36.54	36.91	4.36	39.4	7.04	47.12	1.55
96	337	33.16	35.7	35.7	36.7	4.06	38.51	6.25	47.88	1.21
95	337	32.2	34.31	34.42	35.22	3.73	37.58	7.09	43.23	1.45
94	337	31.48	33.95	33.51	33.99	3.26	36.33	6.8	49.2	1.59
93	337	30.89	33.34	33.92	33.18	2.92	35.12	6.18	54.41	1.46
92	337	30.04	39.33	35.7	33.98	2.5	34.27	2.41	139.66	0.44
91	337	29.66	34.87	34.56	33.92	2.48	34.22	2.41	139.66	0.4
90.5	Bridge									
90	337	29.66	34.87	34.56	32.33	2.48	33.22	4.16	80.94	0.88
89	337	27.9	31.81	33.59	31.38	3.18	32.28	4.22	79.84	0.84
88	337	27.77	31.01	31.07	31.1	2.68	31.9	3.96	85.11	0.71
87	337	26.62	30.95	33	30.1	3.48	31.54	5.3	63.53	1.01
86	337	25.28	29.35	29.84	29.65	3.47	30.56	4.23	79.69	0.69
85	337	25.31	28.82	29.29	29.52	3.31	30.37	4.09	82.38	0.67
84	337	24.22	28.2	28.9	29.36	3.66	30.12	3.88	86.48	0.57
83	337	24.06	28.51	28.63	29.31	3.28	29.88	3.37	99.81	0.48
82.5	Bridge									
82	337	24.06	28.51	28.63	27.76	3.28	28.97	4.87	69.26	0.83
81	337	23.33	26.59	27.31	27.26	3.52	28.56	5.06	66.45	0.84
80	337	22.73	25.98	26.01	27.15	3.6	28.18	4.49	74.56	0.7
79	337	22.46	25.5	25.48	26.98	3.47	27.91	4.26	78.84	0.65
78	337	20.97	25.1	25.08	27.13	3.85	27.68	3.31	101.18	0.45
77.5	Bridge									
77	337	20.94	25.1	25.08	24.8	3.86	26.44	5.67	59.4	1
76	337	19.66	23.99	24.4	22.48	3.31	24.68	6.56	51.34	1.29
75	337	18.97	23.11	23.39	22.01	3.34	23.91	6.1	55.23	1.17
74	337	18.4	22.5	22.3	21.64	3.52	23.53	6.1	55.27	1.16
73	337	17.2	21.4	21.4	20.43	3.39	22.19	5.87	57.42	1.09

72	337	16.2	20.6	20.3	19.79	3.2	21.02	4.93	68.42	0.84
71	337	15.11	19.26	18.85	18.93	3.56	20.24	5.06	66.57	0.89
70.5	Bridge									
70	337	15.11	19.26	18.85	18.67	3.56	20.21	5.5	61.33	1
69	337	14.6	18	18	17.62	3.21	19.37	5.86	57.5	1.1
68	337	14.37	17.3	17.5	17	3.09	18.96	6.2	54.36	1.31
67	337	14.03	17.32	17.2	17.5	2.83	18.39	4.18	80.5	0.73

Torrente Quiliano 31/01/01 T=50 anni

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
66	590	14.68	18.2	18.18	18.15	2.64	18.9	3.83	154.1	0.66
65	590	14.45	18.26	17.6	17.4	2.95	18.7	5.04	117.11	1
64	590	14.33	18.2	17.88	16.33	2.63	18.59	6.67	88.48	1.52
63	590	14.3	18.08	17.85	16.36	2.63	18.49	6.47	91.14	1.45
62	590	14.25	16.03	17.8	16.13	2.52	18.37	6.62	89.15	1.59
61	590	13.5	17.12	17.01	15.85	2.15	16.62	3.87	152.31	0.86
60	590	13.18	17.07	17.08	16.1	1.91	16.5	2.8	210.96	0.52
59	590	12.6	16.17	16.1	15.13	2.53	16.19	4.57	129.2	1
58	590	12.35	16.15	16	13.94	2.21	16.08	6.47	91.13	1.65
57	590	11.8	15.22	15.29	14.24	2.44	15.33	4.63	127.41	1
56	590	11.65	15.5	15.22	14.53	2.2	15.17	3.54	166.89	0.67
55	590	11.1	14.1	14.62	14.04	2.54	14.86	4.02	146.88	0.79
54	590	10.8	14.1	14.61	14.25	2.3	14.76	3.16	186.5	0.54
53.6	590	10.27	13.65	13.86	13.83	2.7	14.5	3.64	162.12	0.64
53.5	Bridge									
53.4	590	10.26	13.64	13.84	13.73	2.72	14.45	3.76	156.98	0.67
53	590	10.1	13.5	13.61	13.5	2.89	14.37	4.12	143.1	0.76
52	590	9.9	13.54	13.6	13.71	2.56	14.28	3.33	177.03	0.55
51	590	9.4	13	13	12.57	3.17	13.99	5.28	111.7	1
50	590	9.35	13	13	11.64	2.87	13.88	6.64	88.92	1.41
49	590	8.9	12.4	12.33	11.91	2.94	13.22	5.07	116.28	0.96
48	590	8.73	12.4	12.32	12.21	2.77	13.08	4.14	142.55	0.71
47	590	8.28	10.81	11.68	11.41	3.12	12.79	5.21	113.17	1
46	590	7.75	10.79	11.66	9.72	2.82	12.6	7.51	78.55	1.72
45	590	7.25	10.1	11.27	10.51	3.26	11.92	5.25	112.38	1
44	590	6.5	10.8	10	8.48	2.93	11.72	7.98	73.95	1.9
43	590	5.9	10	10	8.07	3.04	11.01	7.59	77.72	1.72
42	590	5.5	10	10.1	7.67	3.04	10.6	7.58	77.85	1.71
41	590	4.7	9.9	9.8	6.9	3.07	9.85	7.6	77.61	1.71
40	590	4.2	9.6	9.6	6.35	3.04	9.35	7.66	76.99	1.74
39	Bridge									
38	590	3.9	9.4	9.3	6.34	3.04	8.62	6.69	88.2	1.42
37	590	3.7	9.5	9.1	6.16	3.01	8.34	6.54	90.15	1.38
36	590	3.6	8.7	8.79	6.9	2.84	7.88	4.37	135.03	0.79
35	590	3.35	8.5	8.47	6.98	2.77	7.72	3.82	154.63	0.65
34	Bridge									
33	590	3.25	8.35	8.3	5.35	2.6	7.28	6.16	95.8	1.41
32	590	3.1	8.3	8.31	4.99	2.46	7.03	6.32	93.33	1.52
31	590	2.8	7.8	7.75	5.53	2.07	6.08	3.28	179.92	0.65
30	590	2.4	7.18	7.07	5.52	2.05	5.93	2.83	208.53	0.52
29	590	2.1	6.57	6.69	5.5	2.07	5.85	2.61	225.78	0.46
28	590	1.6	5.7	5.82	5.44	2.22	5.77	2.58	228.93	0.43
27	590	1.2	5.5	5.5	5.37	2.4	5.73	2.66	222.05	0.42
26	590	0.9	5.5	5.6	5.28	2.57	5.67	2.77	212.73	0.43
25	Bridge									
24	590	0.8	5.2	5.2	5.2	2.64	5.62	2.88	205.2	0.45
23	590	0.6	5.2	4.7	5.24	2.56	5.58	2.59	227.9	0.39

22	590	0.55	5.2	4.8	5.24	2.56	5.57	2.56	230.46	0.38
21	590	0.5	5.2	4.7	5.2	2.63	5.56	2.66	221.85	0.4
20	590	0.4	5.2	5.1	5.22	2.6	5.53	2.46	239.69	0.37
19	Bridge									
18	590	0.25	5.1	5	4.92	2.47	5.23	2.48	238.26	0.37
17	590	0.1	5.2	5	4.92	2.5	5.22	2.42	243.61	0.36
16	590	0.08	5.2	5	4.93	2.41	5.21	2.35	251	0.34
15	590	0.05	5	5	4.97	2.23	5.19	2.06	287.04	0.3
14	Bridge									
13	590	0	4	4	4.87	2.14	5.07	1.96	301.16	0.28
12.5	590	-0.1	4	4	3.61	3.37	4.95	5.12	115.28	0.86
12	590	-0.1	4	4	3.58	3.37	4.94	5.16	114.3	0.87
11	Bridge									
10	590	-0.25	4	5	2.22	2.98	4.35	6.47	91.22	1.33
9	590	-0.4	4	5	0.72	2.01	3.95	7.95	74.17	2.4
8	590	-0.4	4	5	0.76	2.01	3.77	7.68	76.81	2.27
7	590	-0.4	4	5	0.77	2	3.69	7.57	77.94	2.23
6	590	-0.4	4	5	0.97	1.98	3.04	6.37	92.59	1.74
5	590	-0.4	4	5	2.07	1.88	2.62	3.27	180.18	0.67
4	Bridge									
3	590	-0.4	4	5	1.15	1.81	2.38	4.93	119.74	1.27
2	590	-0.4	3	5	1.14	1.73	2.24	4.65	126.83	1.2
1	590	-1	3	3	0.67	1.69	1.52	4.09	144.11	1.03

Torrente Quiliano T=200 anni

Sezioni	Portata totale	Fondo alveo	Argine sinistro	Argine destro	Pelo libero	Profondità critica	Energia (m2)	Velocità (m/s)	Area bagnata	N° Froude
121	350	50.2	52.3	52.2	55.88	4.74	57.39	5.44	64.32	0.75
120	350	49.6	59.2	50.7	54.57	4.97	56.9	6.77	51.73	1
119	350	49	62.6	50.9	55.03	3.9	55.62	3.41	102.75	0.48
118	350	48.7	55	50.5	55.13	3.53	55.47	2.6	134.84	0.35
117	350	48.5	55	55.4	55.1	3.53	55.46	2.66	131.43	0.35
116.5	Bridge									
116	350	48.3	55	55.4	53.68	3.61	54.29	3.45	101.47	0.5
115	350	48.2	51.7	50.6	53.75	3.41	54.24	3.11	112.6	0.44
114	488	46.7	52	47.6	51.57	4.87	53.97	6.86	71.16	1
113	488	45.7	51.8	47.7	49.96	4.96	53.07	7.81	62.5	1.31
112	488	45.3	50.5	49.1	51.76	4.53	52.5	3.81	128.04	0.52
111	488	45.1	50.3	50.9	50.14	5.04	52.27	6.47	75.38	1
110	488	44.7	48.5	52.1	50.45	4.54	51.71	4.97	98.18	0.69
109	488	44.3	51.8	53.3	49.3	5	51.37	6.39	76.42	1
108	488	43.9	46.1	50.5	49.79	3.92	50.53	3.8	128.4	0.52
107	488	43.1	45.3	44.7	49.74	4.09	50.42	3.65	133.83	0.46
106	488	42.4	47.4	44.1	49.75	4.43	50.33	3.38	144.4	0.42
105	488	42	47.3	43.6	47.42	5.42	50.01	7.14	68.39	1
104	488	41.8	47.1	45.3	44.62	3.89	48.22	8.41	57.99	1.86
103	488	39.79	43.05	42.75	43.69	4.16	45.39	5.8	83.2	1.13
102	488	38.97	42.53	40.07	42.82	4.14	44.56	5.86	82.95	1.1
101	488	37.5	41.94	39.97	42.34	5.1	43.9	5.61	84.35	1.05
100	488	37.68	40.25	39.48	41.08	3.85	42.98	6.13	78.68	1.21
99	488	36.63	39.06	38.69	40.44	4.29	42.43	6.5	67.52	1.22
98	488	34.31	35.4	37.08	38.62	5.06	41.25	7.74	50.23	1.42
97	488	33.33	35.73	36.54	37.42	5	40.42	7.86	58.67	1.56
96	488	33.16	35.7	35.7	37.05	4.63	39.55	7.5	54.05	1.36
95	488	32.2	34.31	34.42	35.63	4.31	38.54	8.09	50.53	1.53
94	488	31.48	33.95	33.51	34.46	3.84	37.31	7.61	61.54	1.59
93	488	30.89	33.34	33.92	33.64	3.56	36.12	7.01	68.69	1.5
92	488	30.04	39.33	35.7	35.04	3.05	35.38	2.58	189.35	0.41
91	488	29.66	34.87	34.56	34.96	3.08	35.32	2.67	180.15	0.4
90.5	Bridge									
90	488	29.66	34.87	34.56	32.99	3.08	34.09	4.65	105.01	0.88
89	488	27.9	31.81	33.59	32.29	3.83	33.31	4.49	108.62	0.78
88	488	27.77	31.01	31.07	32.03	3.39	33.01	4.4	110.35	0.7
87	488	26.62	30.95	33	31.01	4.39	32.67	5.74	84.16	0.96
86	488	25.28	29.35	29.84	31.24	4.36	32.19	4.32	112.61	0.59
85	488	25.31	28.82	29.29	31.2	4.14	32.05	4.09	118.77	0.56
84	488	24.22	28.2	28.9	31.03	4.61	31.89	4.13	117.12	0.52
83	488	24.06	28.51	28.63	31.02	4.16	31.69	3.63	133.89	0.45
82.5	Bridge									
82	488	24.06	28.51	28.63	28.95	4.16	30.36	5.26	92.7	0.78
81	488	23.33	26.59	27.31	28.51	4.47	30.02	5.46	88.7	0.78
80	488	22.73	25.98	26.01	28.46	4.51	29.69	4.93	98.09	0.67
79	488	22.46	25.5	25.48	28.34	4.38	29.46	4.69	103.55	0.63
78	488	20.97	25.1	25.08	28.49	4.8	29.24	3.85	126.04	0.47
77.5	Bridge									
77	488	20.94	25.1	25.08	25.74	4.8	27.8	6.37	76.49	0.99
76	488	19.66	23.99	24.4	23.18	4.19	26.05	7.51	65	1.32
75	488	18.97	23.11	23.39	22.71	4.22	25.25	7.06	69.14	1.21
74	488	18.4	22.5	22.3	22.42	4.46	24.85	6.9	70.73	1.16
73	488	17.2	21.4	21.4	22.48	4.3	23.75	5	97.13	0.71

72	488	16.2	20.6	20.3	22.55	4.08	23.34	3.96	122.46	0.51
71	488	15.11	19.26	18.85	22.5	4.45	23.13	3.51	138.04	0.43
70.5	Bridge									
70	488	15.11	19.26	18.85	19.56	4.45	21.49	6.15	79.14	0.99
69	488	14.6	18	18	18.49	4.09	20.64	6.51	74.78	1.07
68	488	14.37	17.3	17.5	17.55	3.86	20.2	7.22	67.58	1.37
67	488	14.03	17.32	17.2	18.32	3.61	19.52	4.85	100.27	0.76

Torrente Quiliano 31/01/01 T=200 anni

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
66	850	14.68	18.2	18.18	18.97	3.36	19.98	4.46	190.74	0.69
65	850	14.45	18.26	17.6	18.12	3.67	19.76	5.69	149.45	1
64	850	14.33	18.2	17.88	16.96	3.35	19.64	7.26	117.12	1.44
63	850	14.3	18.08	17.85	16.97	3.35	19.59	7.17	118.55	1.41
62	850	14.25	16.03	17.8	16.63	3.19	19.46	7.45	114.02	1.58
61	850	13.5	17.12	17.01	15.57	2.67	17.71	6.48	131.1	1.55
60	850	13.18	17.07	17.08	16.87	2.43	17.39	3.19	266.52	0.53
59	850	12.6	16.17	16.1	15.72	3.12	17.07	5.16	164.82	1
58	850	12.35	16.15	16	14.47	2.81	16.95	6.97	122.01	1.53
57	850	11.8	15.22	15.29	15.29	3.04	16.33	4.5	188.7	0.8
56	850	11.65	15.5	15.22	15.48	2.81	16.23	3.82	222.27	0.62
55	850	11.1	14.1	14.62	15.11	3.16	15.98	4.12	206.44	0.68
54	850	10.8	14.1	14.61	15.28	2.94	15.9	3.51	242.19	0.53
53.6	850	10.27	13.65	13.86	14.86	3.38	15.67	3.99	212.79	0.61
53.5	Bridge									
53.4	850	10.26	13.64	13.84	14.74	3.4	15.6	4.12	206.45	0.64
53	850	10.1	13.5	13.61	14.54	3.59	15.53	4.42	192.17	0.7
52	850	9.9	13.54	13.6	14.72	3.26	15.45	3.79	224.32	0.55
51	850	9.4	13	13	13.36	3.96	15.16	5.94	142.98	1
50	850	9.35	13	13	12.34	3.66	15.06	7.31	116.25	1.36
49	850	8.9	12.4	12.33	12.28	3.7	14.41	6.47	131.41	1.16
48	850	8.73	12.4	12.32	11.54	3.53	14.32	7.38	115.11	1.41
47	850	8.28	10.81	11.68	12.17	3.89	13.93	5.89	144.13	1
46	850	7.75	10.79	11.66	10.35	3.59	13.77	8.2	103.7	1.63
45	850	7.25	10.1	11.27	11.29	4.04	13.08	5.92	143.48	1
44	850	6.5	10.8	10	9.08	3.7	12.87	8.62	98.56	1.78
43	850	5.9	10	10	8.65	3.82	12.31	8.47	100.32	1.69
42	850	5.5	10	10.1	8.22	3.82	11.96	8.56	99.26	1.71
41	850	4.7	9.9	9.8	7.46	3.87	11.21	8.57	99.14	1.71
40	850	4.2	9.6	9.6	6.95	3.83	10.61	8.47	100.33	1.69
39	Bridge									
38	850	3.9	9.4	9.3	6.96	3.83	9.88	7.57	112.25	1.42
37	850	3.7	9.5	9.1	6.74	3.79	9.62	7.51	113.21	1.42
36	850	3.6	8.7	8.79	6.51	3.58	9.15	7.19	118.21	1.38
35	850	3.35	8.5	8.47	7.9	3.49	8.87	4.34	195.69	0.66
34	Bridge									
33	850	3.25	8.35	8.3	5.87	3.27	8.37	7	121.46	1.42
32	850	3.1	8.3	8.31	5.45	3.1	8.11	7.23	117.54	1.55
31	850	2.8	7.8	7.75	6.92	2.6	7.41	3.09	275.49	0.49
30	850	2.4	7.18	7.07	6.93	2.59	7.32	2.78	305.58	0.42
29	850	2.1	6.57	6.69	6.92	2.61	7.27	2.63	322.87	0.39
28	850	1.6	5.7	5.82	6.85	2.8	7.22	2.69	315.83	0.38
27	850	1.2	5.5	5.5	6.77	3.03	7.18	2.84	299.05	0.39
26	850	0.9	5.5	5.6	6.66	3.24	7.13	3.01	282.69	0.41
25	Bridge									
24	850	0.8	5.2	5.2	6.61	3.32	7.11	3.1	273.8	0.42
23	850	0.6	5.2	4.7	6.66	3.22	7.07	2.83	300.26	0.37

22	850	0.55	5.2	4.8	6.66	3.22	7.06	2.81	302.82	0.37
21	850	0.5	5.2	4.7	6.61	3.3	7.05	2.92	291.13	0.38
20	850	0.4	5.2	5.1	6.64	3.25	7.02	2.7	314.36	0.35
19	Bridge									
18	850	0.25	5.1	5	6.33	3.12	6.71	2.72	312.54	0.36
17	850	0.1	5.2	5	6.33	3.15	6.7	2.68	317.1	0.35
16	850	0.08	5.2	5	6.34	3.06	6.69	2.61	325.24	0.34
15	850	0.05	5	5	6.39	2.83	6.66	2.29	371.09	0.29
14	Bridge									
13	850	0	4	4	6.21	2.72	6.46	2.21	384.67	0.28
12.5	850	-0.1	4	4	4.59	4.27	6.3	5.8	146.66	0.86
12	850	-0.1	4	4	4.51	4.27	6.28	5.9	144.05	0.89
11	Bridge									
10	850	-0.25	4	5	2.83	3.78	5.64	7.42	114.61	1.36
9	850	-0.4	4	5	1.02	2.56	5.22	9.08	93.66	2.43
8	850	-0.4	4	5	1.06	2.56	5.04	8.84	96.12	2.34
7	850	-0.4	4	5	1.06	2.55	4.99	8.79	96.75	2.33
6	850	-0.4	4	5	1.22	2.53	4.28	7.75	109.71	1.94
5	850	-0.4	4	5	1.26	2.4	3.76	7	121.47	1.73
4	Bridge									
3	850	-0.4	4	5	1.5	2.31	3.2	5.76	147.48	1.33
2	850	-0.4	3	5	1.57	2.21	2.97	5.24	162.2	1.19
1	850	-1	3	3	1.14	2.16	2.2	4.56	186.57	1.01

Torrente Quiliano T=500 anni

Sezioni	Portata totale	Fondo alveo	Argine sinistro	Argine destro	Pelo libero	Profondità critica	Energia (m2)	Velocità (m/s)	Area bagnata	N° Froude
121	422	50.2	52.3	52.2	56.68	5.32	58.34	5.71	73.95	0.73
120	422	49.6	59.2	50.7	55.17	5.57	57.83	7.23	58.4	1.01
119	422	49	62.6	50.9	56.21	4.36	56.78	3.33	126.74	0.43
118	422	48.7	55	50.5	56.31	3.92	56.65	2.59	162.89	0.32
117	422	48.5	55	55.4	56.28	3.92	56.64	2.69	157.07	0.32
116.5	Bridge									
116	422	48.3	55	55.4	54.63	4.01	55.24	3.47	121.47	0.46
115	422	48.2	51.7	50.6	54.69	3.8	55.2	3.16	133.49	0.41
114	587	46.7	52	47.6	52.21	5.51	54.91	7.27	80.77	1
113	587	45.7	51.8	47.7	50.38	5.52	53.99	8.42	69.72	1.33
112	587	45.3	50.5	49.1	52.53	5	53.35	4.02	146.02	0.51
111	587	45.1	50.3	50.9	50.71	5.61	53.1	6.85	85.73	1
110	587	44.7	48.5	52.1	51.06	5.1	52.52	5.37	109.32	0.7
109	587	44.3	51.8	53.3	50.04	5.55	52.2	6.51	90.14	0.94
108	587	43.9	46.1	50.5	50.81	4.41	51.56	3.84	152.72	0.49
107	587	43.1	45.3	44.7	50.73	4.59	51.46	3.79	154.76	0.45
106	587	42.4	47.4	44.1	50.75	4.94	51.38	3.53	166.31	0.41
105	587	42	47.3	43.6	48.1	6.1	51.03	7.58	77.43	1
104	587	41.8	47.1	45.3	44.82	4.29	49.17	9.24	63.51	1.96
103	587	39.79	43.05	42.75	43.96	4.52	45.96	6.3	91.66	1.17
102	587	38.97	42.53	40.07	43.27	4.55	45.11	6.05	95.67	1.06
101	587	37.5	41.94	39.97	42.39	5.46	44.56	6.62	85.71	1.23
100	587	37.68	40.25	39.48	41.24	4.26	43.65	6.92	83.45	1.33
99	587	36.63	39.06	38.69	40.73	4.65	42.98	6.96	74.24	1.25
98	587	34.31	35.4	37.08	38.91	5.4	41.82	8.19	55.06	1.44
97	587	33.33	35.73	36.54	37.7	5.34	41	8.32	64.91	1.57
96	587	33.16	35.7	35.7	37.28	4.94	40.12	8.09	58	1.42
95	587	32.2	34.31	34.42	35.86	4.62	39.08	8.6	54.75	1.56
94	587	31.48	33.95	33.51	34.73	4.18	37.86	8.04	68.53	1.59
93	587	30.89	33.34	33.92	33.89	3.86	36.66	7.47	76.48	1.54
92	587	30.04	39.33	35.7	35.04	3.4	35.53	3.1	189.44	0.5
91	587	29.66	34.87	34.56	34.92	3.43	35.45	3.25	178.3	0.49
90.5	Bridge									
90	587	29.66	34.87	34.56	33.42	3.43	34.62	4.86	120.68	0.86
89	587	27.9	31.81	33.59	32.87	4.24	33.95	4.61	127.29	0.74
88	587	27.77	31.01	31.07	32.64	3.84	33.68	4.55	126.95	0.67
87	587	26.62	30.95	33	31.99	4.85	33.4	5.32	106.71	0.79
86	587	25.28	29.35	29.84	32.06	4.87	33.1	4.51	129.57	0.57
85	587	25.31	28.82	29.29	32.04	4.63	32.96	4.26	136.94	0.54
84	587	24.22	28.2	28.9	31.83	5.16	32.81	4.41	131.85	0.53
83	587	24.06	28.51	28.63	31.85	4.7	32.61	3.88	150.25	0.45
82.5	Bridge									
82	587	24.06	28.51	28.63	29.48	4.7	31.11	5.67	103.27	0.79
81	587	23.33	26.59	27.31	28.43	5.01	30.69	6.68	87.27	0.96
80	587	22.73	25.98	26.01	28.32	5.04	30.19	6.09	95.58	0.84
79	587	22.46	25.5	25.48	28.04	4.92	29.84	5.97	98	0.82
78	587	20.97	25.1	25.08	28.32	5.34	29.46	4.74	122.95	0.58
77.5	Bridge									
77	587	20.94	25.1	25.08	26.28	5.34	28.61	6.79	86.19	0.99
76	587	19.66	23.99	24.4	23.6	4.74	26.87	8.02	73.24	1.33
75	587	18.97	23.11	23.39	23.2	4.76	26.02	7.44	78.91	1.2
74	587	18.4	22.5	22.3	22.91	4.97	25.6	7.28	80.3	1.15
73	587	17.2	21.4	21.4	23.23	4.84	24.61	5.22	111.67	0.69

72	587	16.2	20.6	20.3	23.31	4.64	24.22	4.24	137.4	0.51
71	587	15.11	19.26	18.85	23.27	4.95	24	3.79	153.44	0.44
70.5	Bridge									
70	587	15.11	19.26	18.85	20.06	4.95	22.25	6.56	89.17	0.99
69	587	14.6	18	18	19.19	4.59	21.38	6.58	88.78	1
68	587	14.37	17.3	17.5	17.89	4.31	20.93	7.73	75.65	1.39
67	587	14.03	17.32	17.2	18.74	4.07	20.17	5.3	110.4	0.79

Torrente Quiliano 31/01/01 T=500 anni

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
66	1000	14.68	18.2	18.18	19.39	3.74	20.55	4.76	210.02	0.7
65	1000	14.45	18.26	17.6	18.5	4.05	20.33	6	166.78	1
64	1000	14.33	18.2	17.88	17.3	3.73	20.2	7.54	132.59	1.4
63	1000	14.3	18.08	17.85	17.31	3.73	20.15	7.46	134.05	1.38
62	1000	14.25	16.03	17.8	16.9	3.54	20.02	7.82	127.85	1.57
61	1000	13.5	17.12	17.01	15.73	2.95	18.22	7	142.83	1.6
60	1000	13.18	17.07	17.08	17.27	2.71	17.85	3.38	295.84	0.54
59	1000	12.6	16.17	16.1	16.03	3.42	17.54	5.45	183.43	1
58	1000	12.35	16.15	16	14.76	3.14	17.41	7.22	138.6	1.49
57	1000	11.8	15.22	15.29	15.96	3.36	16.94	4.4	227.39	0.71
56	1000	11.65	15.5	15.22	16.1	3.13	16.86	3.87	258.25	0.59
55	1000	11.1	14.1	14.62	15.85	3.49	16.69	4.04	247.4	0.61
54	1000	10.8	14.1	14.61	15.98	3.27	16.63	3.56	280.4	0.5
53.6	1000	10.27	13.65	13.86	15.6	3.74	16.42	4.01	249.49	0.57
53.5	Bridge									
53.4	1000	10.26	13.64	13.84	15.29	3.76	16.22	4.28	233.57	0.63
53	1000	10.1	13.5	13.61	15.1	3.95	16.16	4.57	218.63	0.68
52	1000	9.9	13.54	13.6	15.27	3.62	16.08	4	250.06	0.55
51	1000	9.4	13	13	13.77	4.37	15.77	6.27	159.4	1
50	1000	9.35	13	13	12.72	4.07	15.67	7.61	131.43	1.33
49	1000	8.9	12.4	12.33	12.68	4.1	15	6.75	148.23	1.14
48	1000	8.73	12.4	12.32	11.89	3.94	14.93	7.72	129.56	1.39
47	1000	8.28	10.81	11.68	12.57	4.29	14.54	6.22	160.58	1
46	1000	7.75	10.79	11.66	10.7	4.01	14.36	8.47	118.03	1.58
45	1000	7.25	10.1	11.27	11.7	4.45	13.69	6.25	160	1
44	1000	6.5	10.8	10	12.42	4.1	13.34	4.24	235.62	0.57
43	1000	5.9	10	10	12.44	4.24	13.27	4.03	247.89	0.51
42	1000	5.5	10	10.1	12.49	4.24	13.21	3.77	265.56	0.46
41	1000	4.7	9.9	9.8	12.54	4.28	13.13	3.4	294.54	0.39
40	1000	4.2	9.6	9.6	12.58	4.24	13.08	3.13	319.81	0.35
39	Bridge									
38	1000	3.9	9.4	9.3	11.71	4.24	12.28	3.36	297.4	0.39
37	1000	3.7	9.5	9.1	11.72	4.21	12.25	3.23	309.92	0.37
36	1000	3.6	8.7	8.79	11.77	3.97	12.2	2.9	344.29	0.33
35	1000	3.35	8.5	8.47	11.79	3.88	12.17	2.71	368.72	0.3
34	Bridge									
33	1000	3.25	8.35	8.3	11.25	3.63	11.6	2.6	385.27	0.3
32	1000	3.1	8.3	8.31	11.29	3.45	11.57	2.34	427.21	0.26
31	1000	2.8	7.8	7.75	11.37	2.89	11.52	1.72	580	0.19
30	1000	2.4	7.18	7.07	11.37	2.88	11.51	1.63	612.19	0.18
29	1000	2.1	6.57	6.69	11.37	2.89	11.5	1.59	628.02	0.17
28	1000	1.6	5.7	5.82	11.34	3.12	11.49	1.69	592.21	0.17
27	1000	1.2	5.5	5.5	11.31	3.36	11.48	1.82	548.99	0.18
26	1000	0.9	5.5	5.6	11.28	3.59	11.47	1.94	515.55	0.19
25	Bridge									
24	1000	0.8	5.2	5.2	10.95	3.68	11.17	2.07	484.17	0.21
23	1000	0.6	5.2	4.7	10.97	3.57	11.16	1.92	520.1	0.19

22	1000	0.55	5.2	4.8	10.97	3.57	11.16	1.91	522.61	0.19
21	1000	0.5	5.2	4.7	10.95	3.66	11.15	1.99	503.64	0.2
20	1000	0.4	5.2	5.1	10.97	3.59	11.14	1.85	541.25	0.18
19	Bridge									
18	1000	0.25	5.1	5	10.72	3.46	10.89	1.84	542.94	0.18
17	1000	0.1	5.2	5	10.72	3.49	10.89	1.83	545.12	0.18
16	1000	0.08	5.2	5	10.72	3.4	10.89	1.8	555.14	0.18
15	1000	0.05	5	5	10.75	3.14	10.88	1.59	627.77	0.16
14	Bridge									
13	1000	0	4	4	10.37	3.02	10.49	1.55	644.64	0.15
12.5	1000	-0.1	4	4	9.95	4.74	10.45	3.14	318.09	0.32
12	1000	-0.1	4	4	9.95	4.74	10.45	3.14	318.04	0.32
11	Bridge									
10	1000	-0.25	4	5	3.95	4.2	6.02	6.37	157.1	1
9	1000	-0.4	4	5	1.25	2.86	5.55	9.19	108.78	2.29
8	1000	-0.4	4	5	1.29	2.86	5.4	8.99	111.26	2.21
7	1000	-0.4	4	5	1.29	2.85	5.32	8.89	112.53	2.18
6	1000	-0.4	4	5	1.46	2.81	4.69	7.97	125.5	1.87
5	1000	-0.4	4	5	1.45	2.67	4.26	7.43	134.63	1.75
4	Bridge									
3	1000	-0.4	4	5	1.67	2.57	3.65	6.22	160.65	1.38
2	1000	-0.4	3	5	1.8	2.47	3.35	5.51	181.5	1.19
1	1000	-1	3	3	1.4	2.4	2.55	4.76	210.19	1

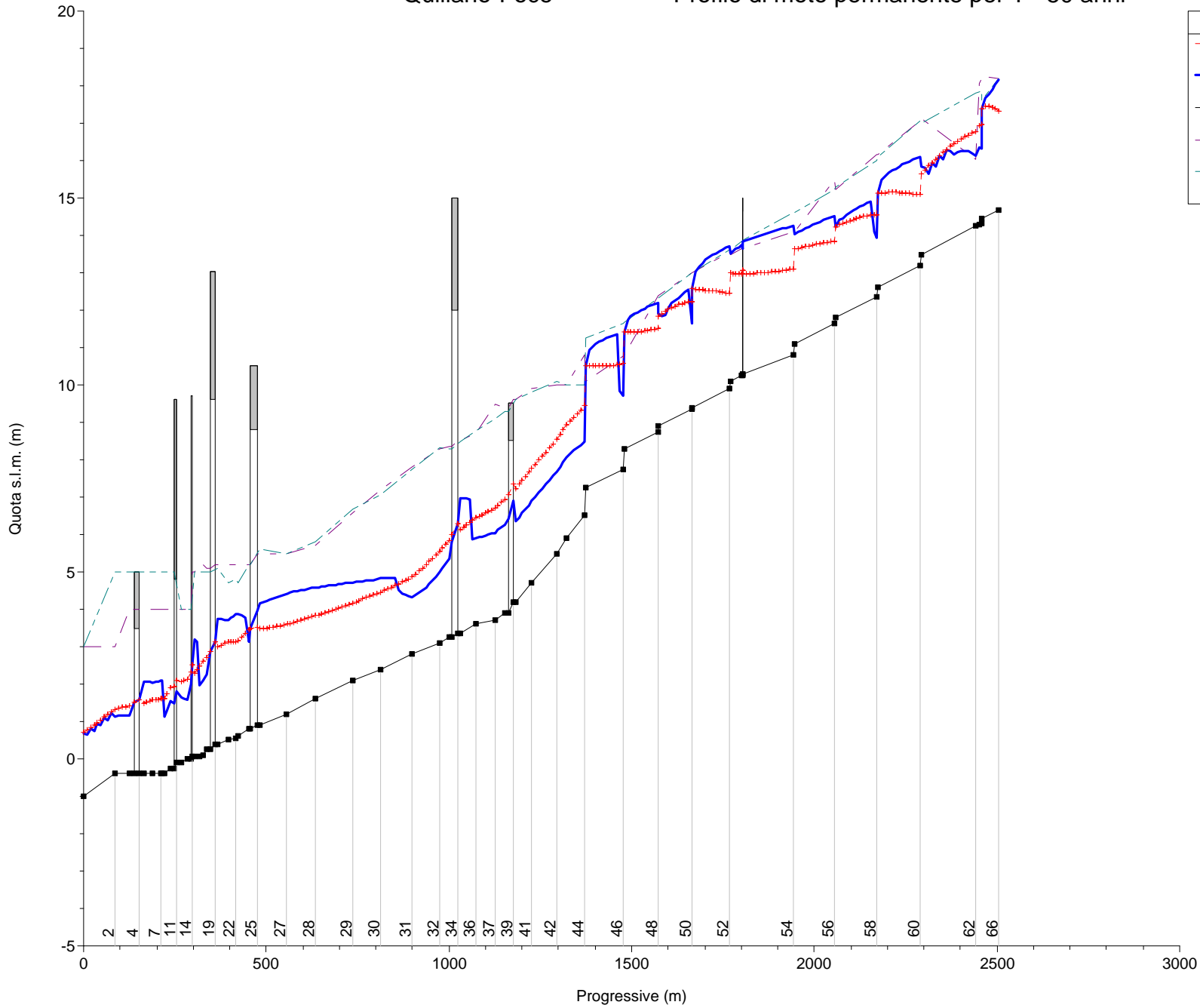
**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

QUILIANO FOCE stato di progetto

Per la redazione delle Tavv. 9 (fasce di inondabilità), 11 (rischio idraulico) e 14 (aree inondabili) non sono state utilizzate le risultanze della modellazione effettuata con la configurazione di progetto. La cartografia di Piano sarà aggiornata ad avvenuta ultimazione degli interventi ad oggi in itinere.

Quiliano-Foce

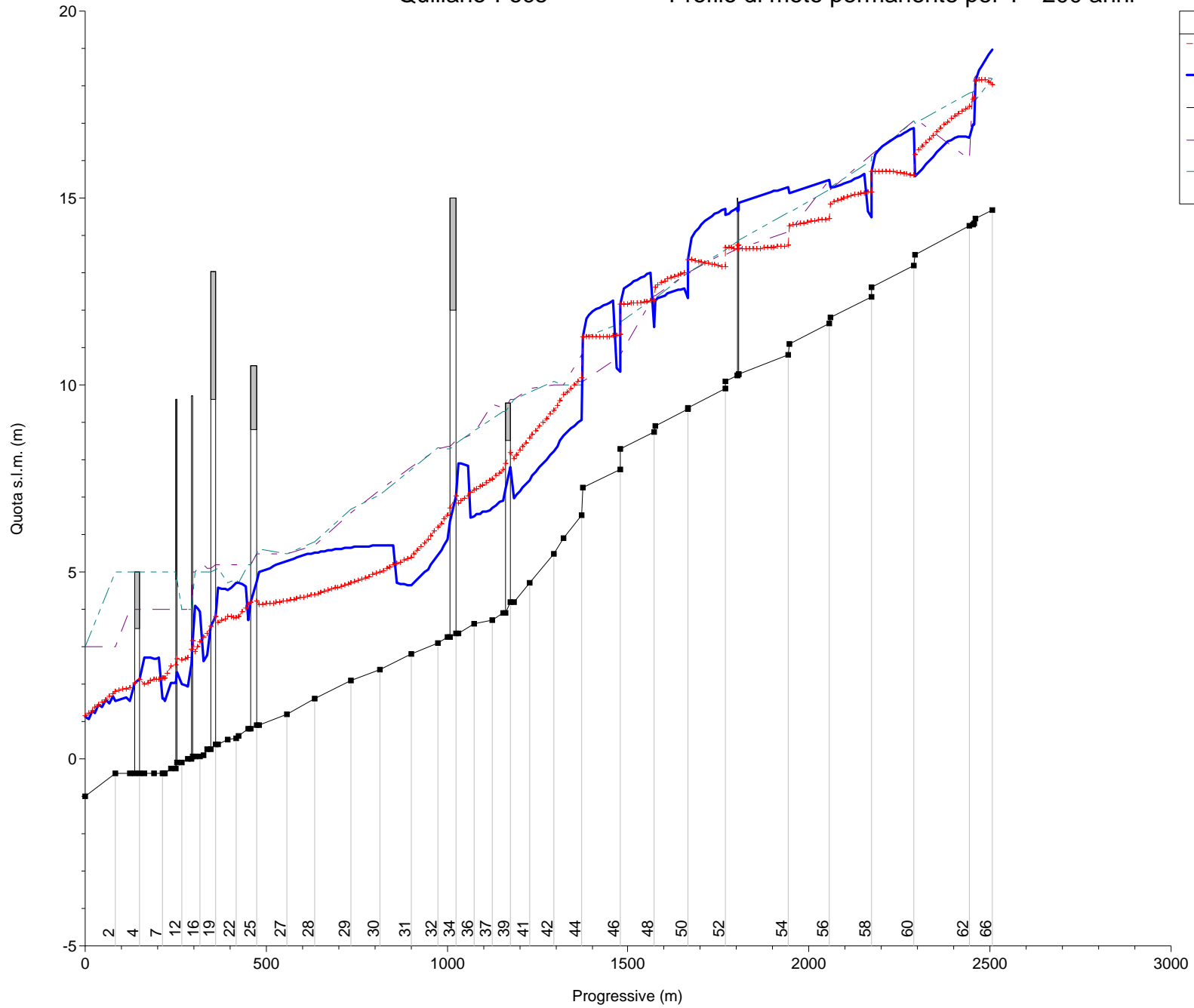
Profilo di moto permanente per T= 50 anni



Legend	
Profondità critica T=50 anni	+
Pelo libero T=50 anni	—
Fondo alveo	■
Argine sinistro	- - -
Argine destro	- - -

Quiliano-Foce

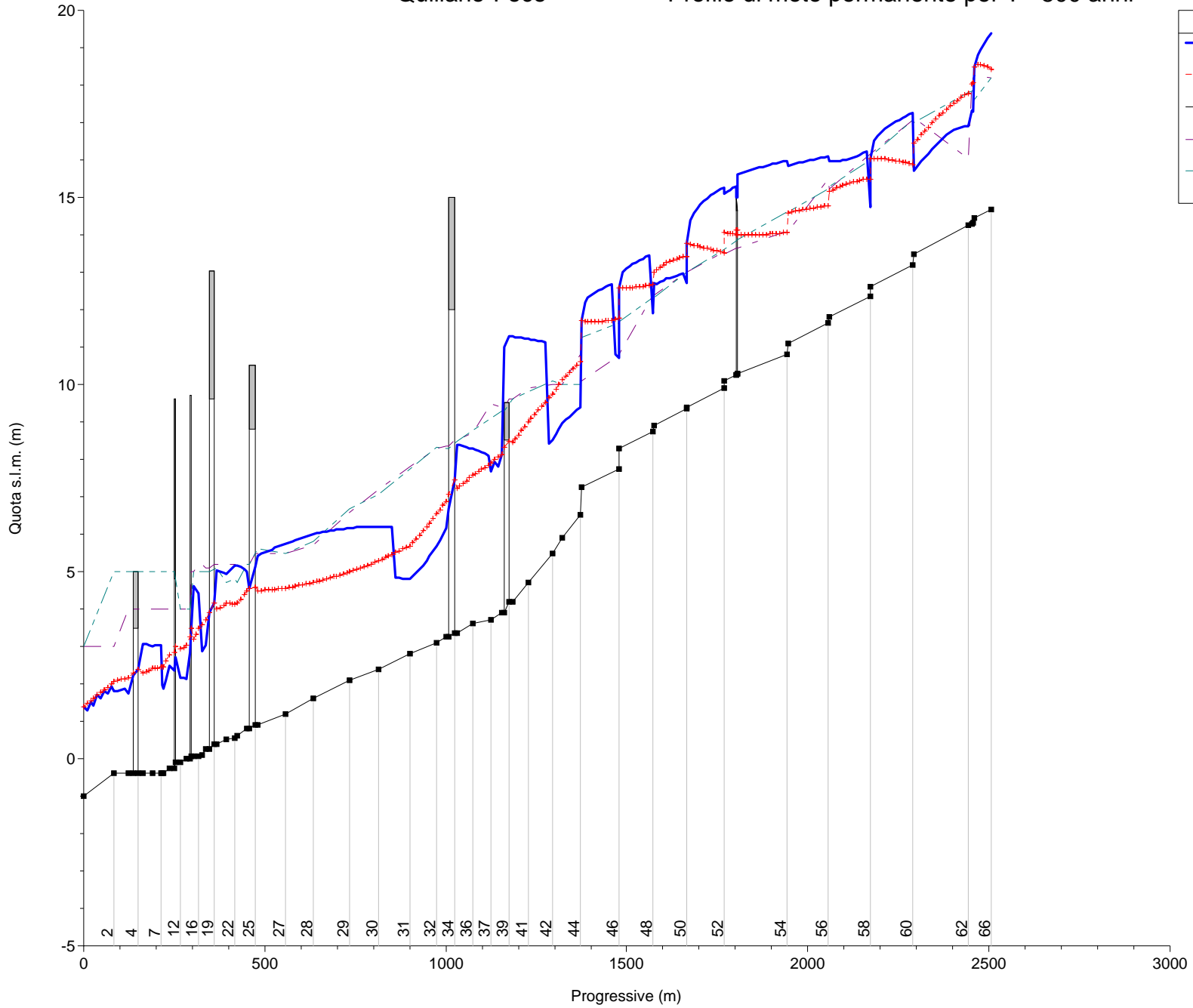
Profilo di moto permanente per T= 200 anni



Legend	
Profondità critica T=200 anni	(Red dotted line)
Pelo libero T=200 anni	(Solid blue line)
Fondo alveo	(Black line with squares)
Argine sinistro	(Purple dashed line)
Argine destro	(Green dashed line)

Quiliano-Foce

Profilo di moto permanente per T= 500 anni



Legend	
	Pelo libero T=500 anni
	Profondità critica T=500 anni
	Fondo alveo
	Argine sinistro
	Argine destro

**GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI**

QUILIANO FOCE stato di progetto

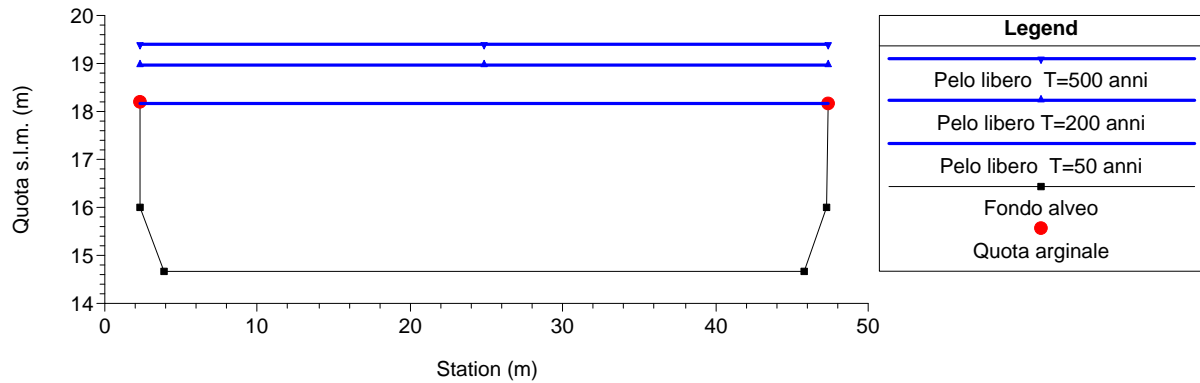
da sez. 66
a sez. 1

Per la redazione delle Tavv. 9 (fasce di inondabilità), 11 (rischio idraulico) e 14 (aree inondabili) non sono state utilizzate le risultanze della modellazione effettuata con la configurazione di progetto. La cartografia di Piano sarà aggiornata ad avvenuta ultimazione degli interventi ad oggi in itinere.

QUILIANO – Sezioni trasversali

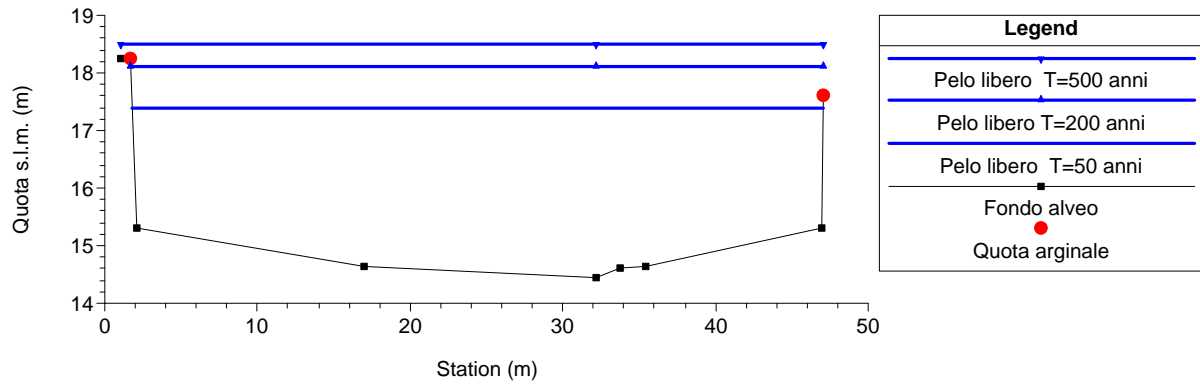
Quiliano-Foce

River = quiliano Reach = foce RS = 66



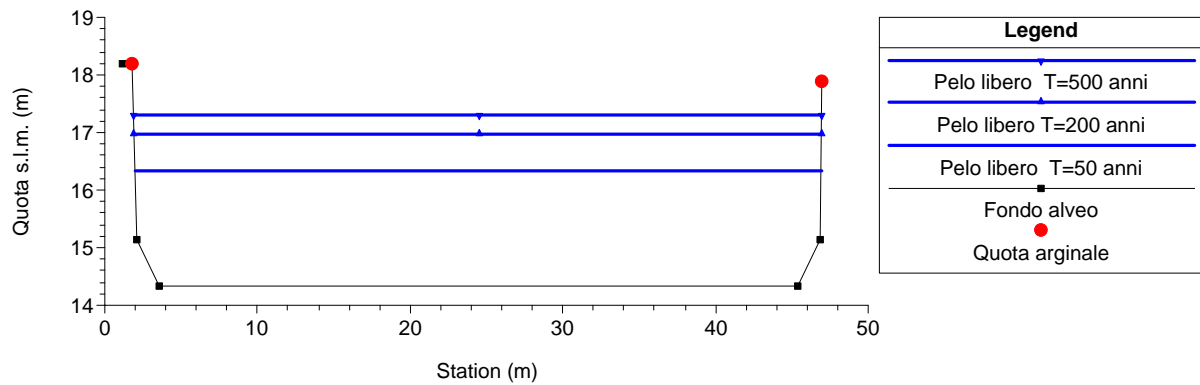
Quiliano-Foce

River = quiliano Reach = foce RS = 65



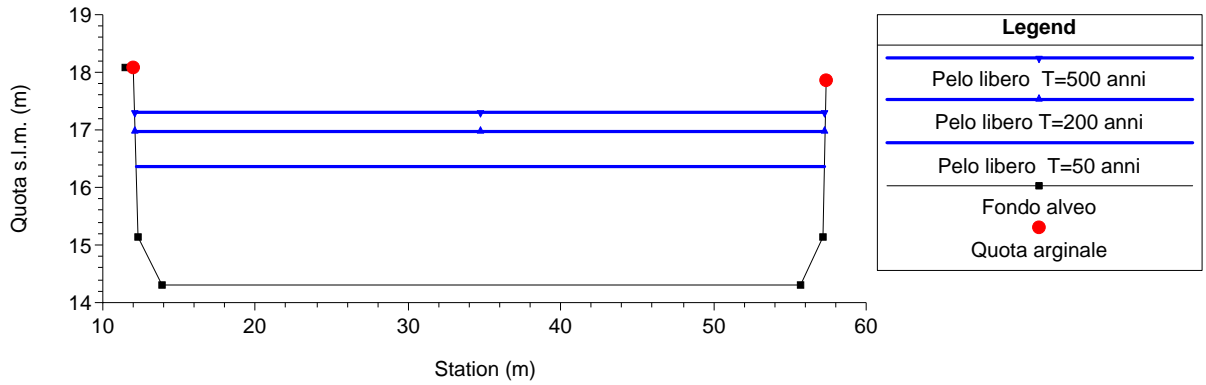
Quiliano-Foce

River = quiliano Reach = foce RS = 64



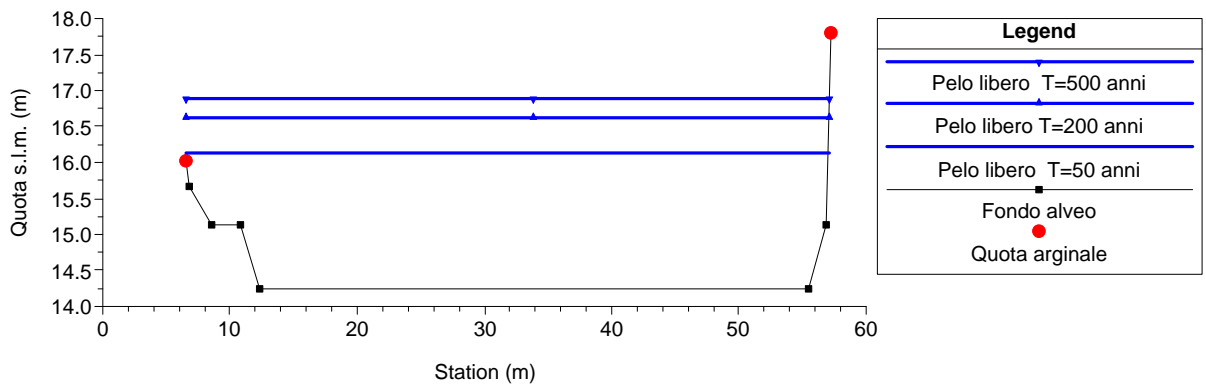
Quiliano-Foce

River = quiliano Reach = foce RS = 63



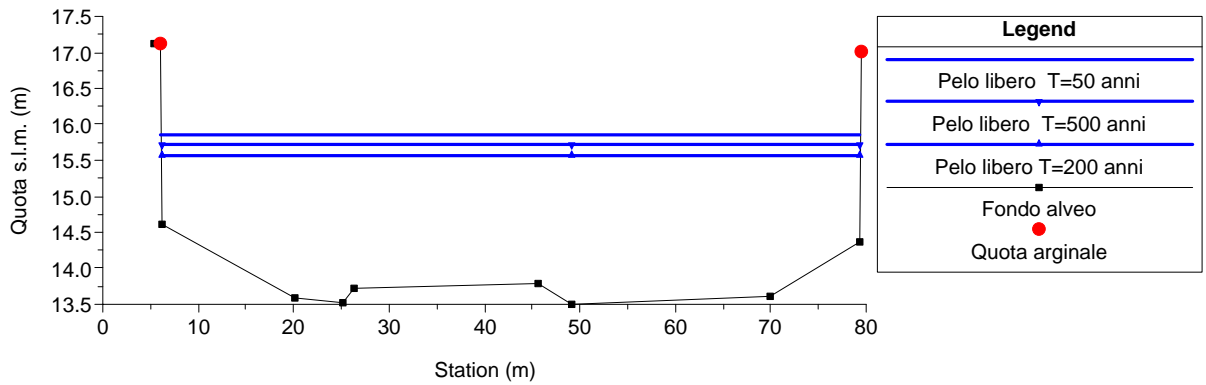
Quiliano-Foce

River = quiliano Reach = foce RS = 62



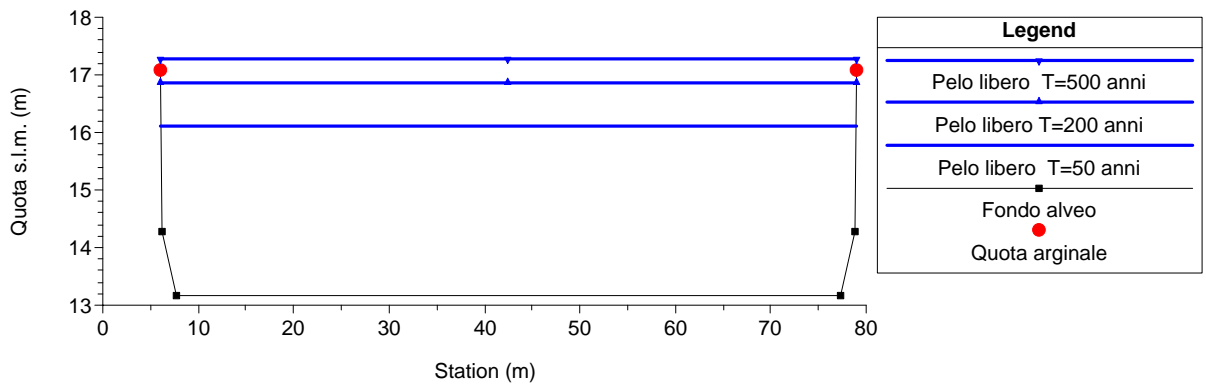
Quiliano-Foce

River = quiliano Reach = foce RS = 61



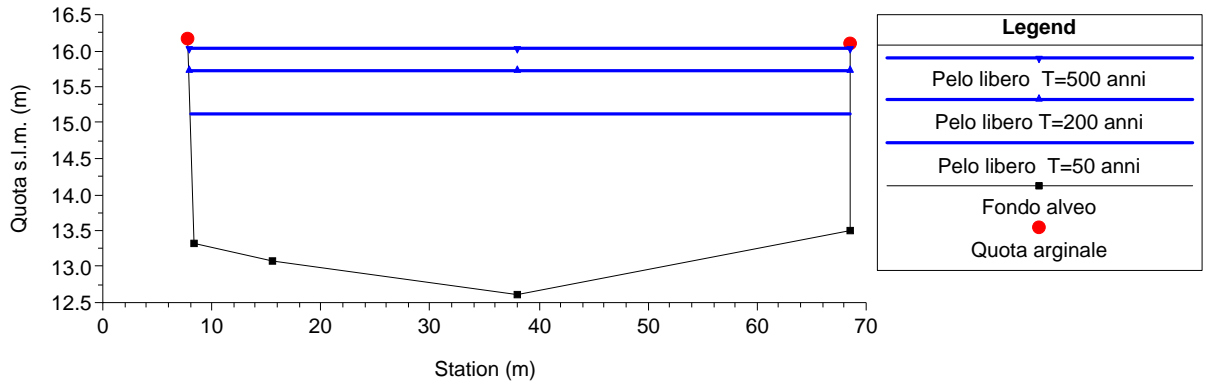
Quiliano-Foce

River = quiliano Reach = foce RS = 60



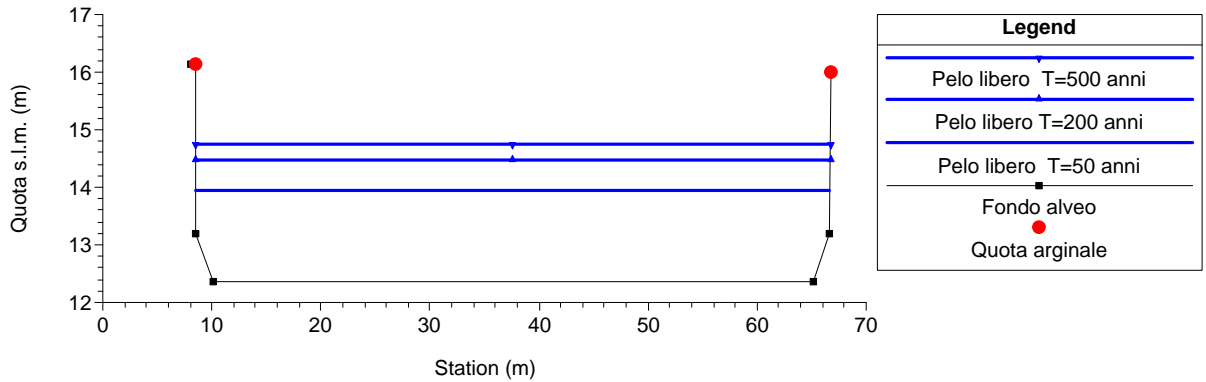
Quiliano-Foce

River = quiliano Reach = foce RS = 59



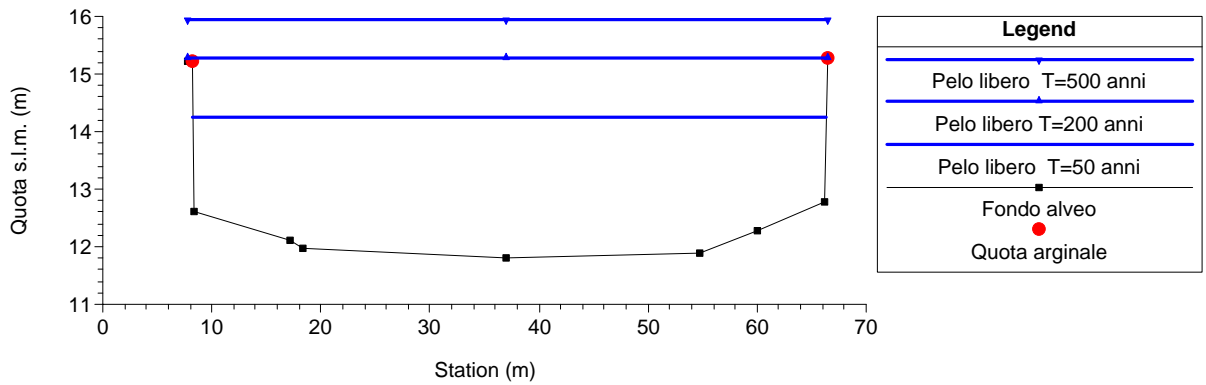
Quiliano-Foce

River = quiliano Reach = foce RS = 58



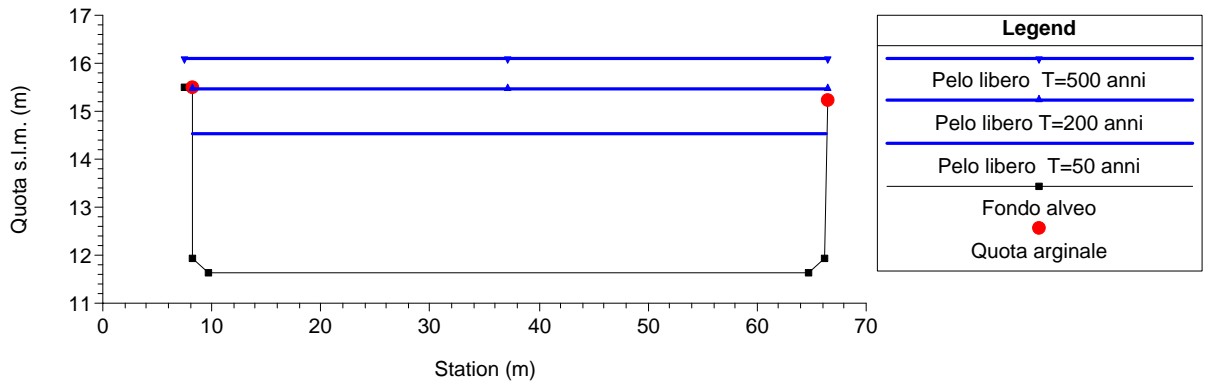
Quiliano-Foce

River = quiliano Reach = foce RS = 57



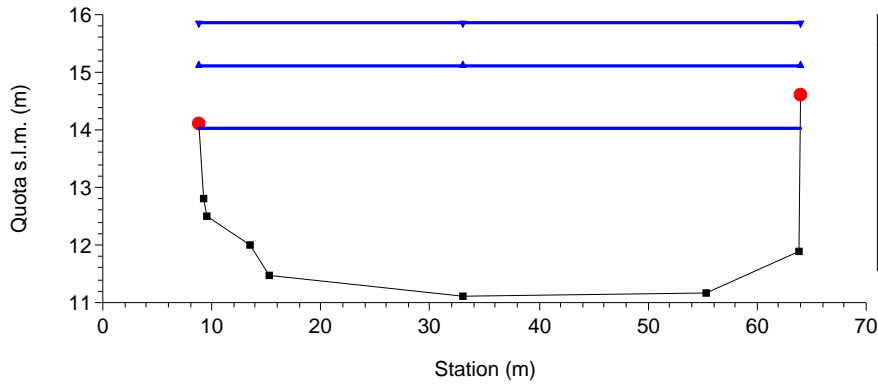
Quiliano-Foce

River = quiliano Reach = foce RS = 56



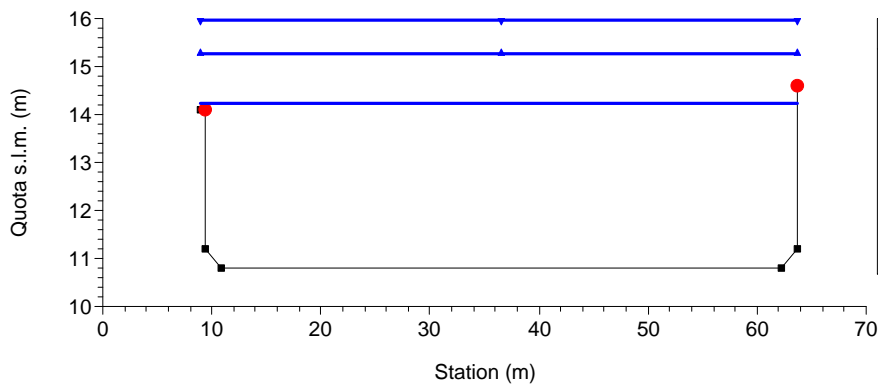
Quiliano-Foce

River = quiliano Reach = foce RS = 55



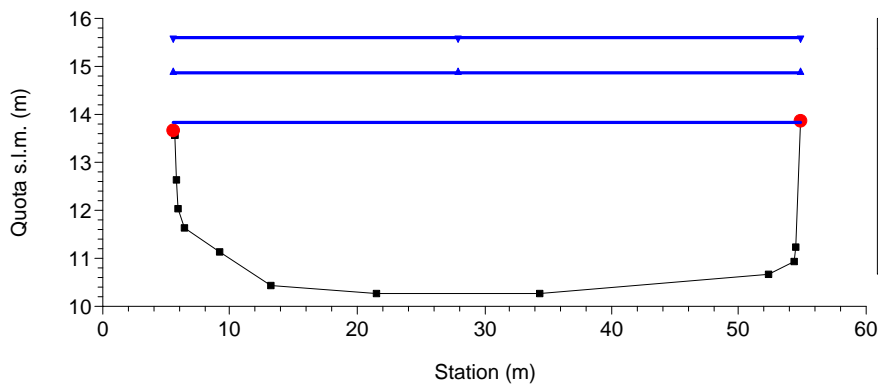
Quiliano-Foce

River = quiliano Reach = foce RS = 54



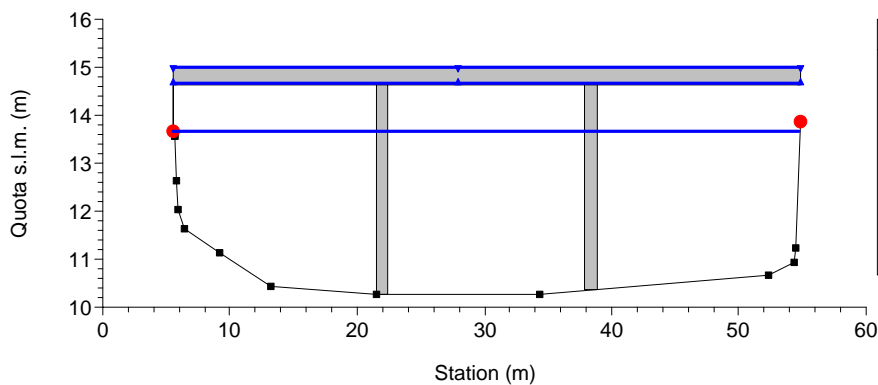
Quiliano-Foce

River = quiliano Reach = foce RS = 53.6



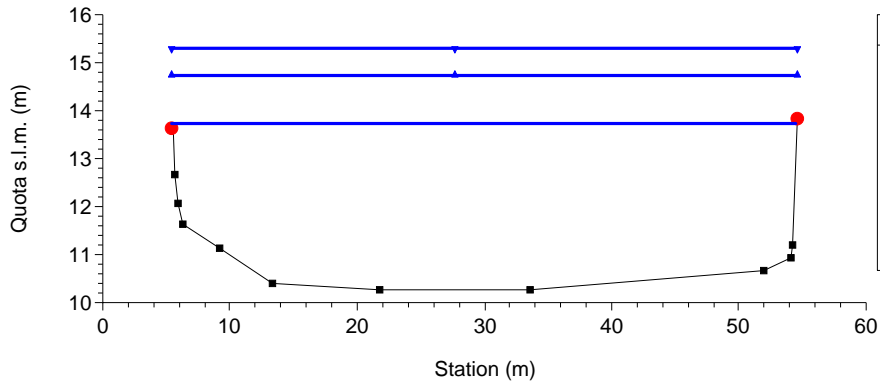
Quiliano-Foce

River = quiliano Reach = foce RS = 53.5 BR U



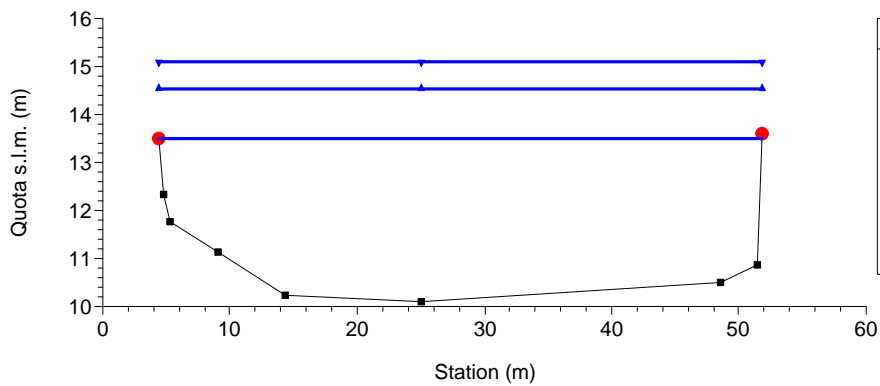
Quiliano-Foce

River = quiliano Reach = foce RS = 53.4



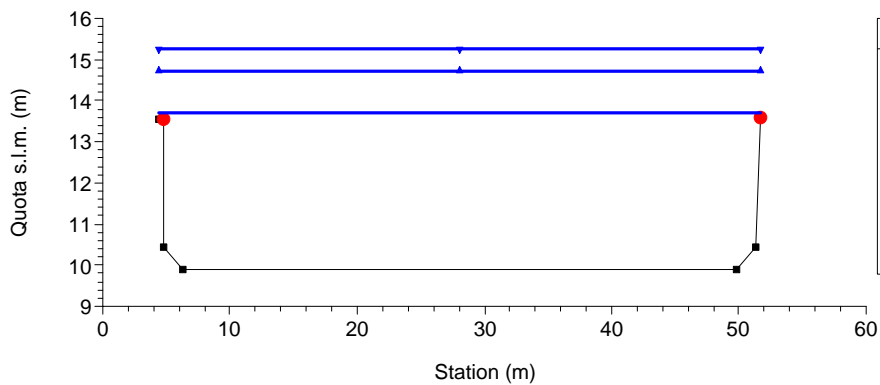
Quiliano-Foce

River = quiliano Reach = foce RS = 53



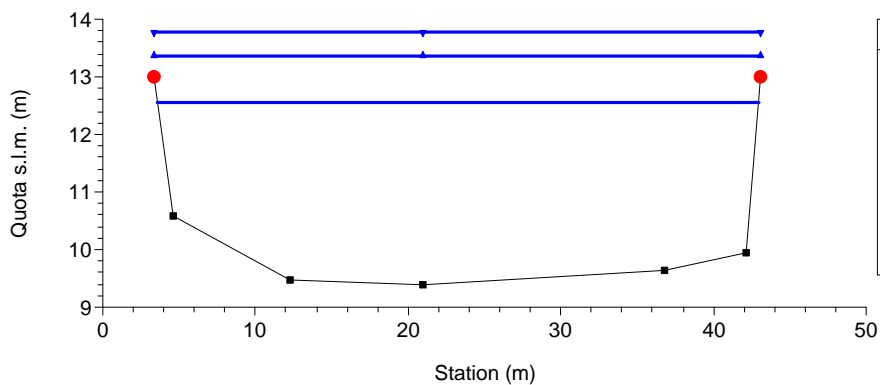
Quiliano-Foce

River = quiliano Reach = foce RS = 52



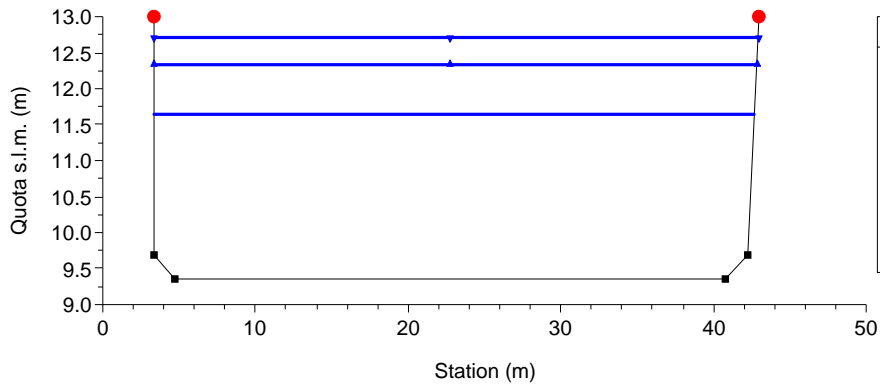
Quiliano-Foce

River = quiliano Reach = foce RS = 51



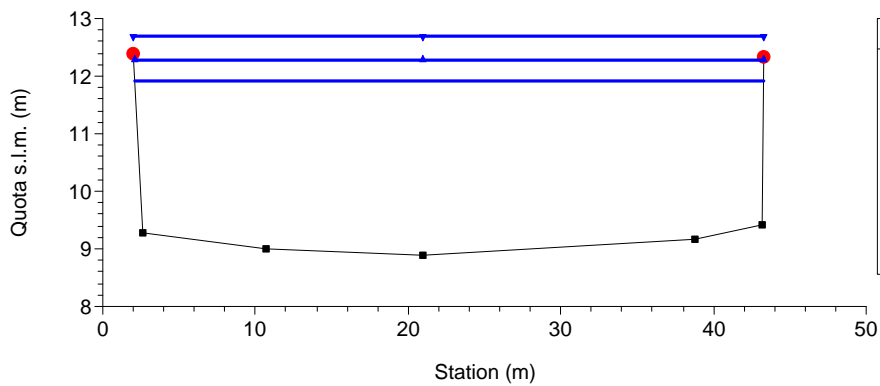
Quiliano-Foce

River = quiliano Reach = foce RS = 50



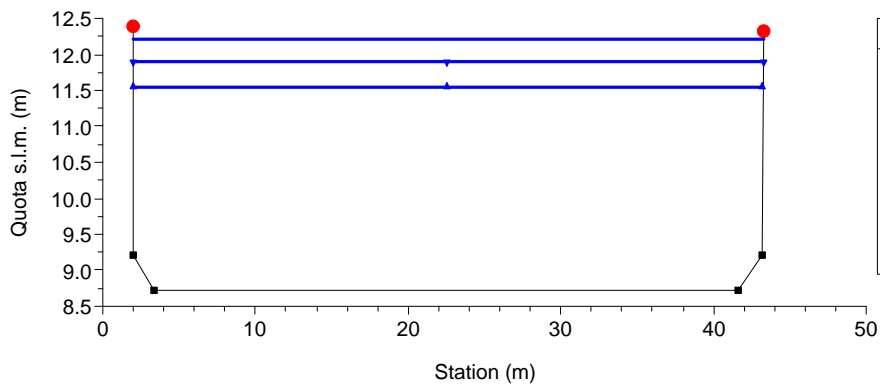
Quiliano-Foce

River = quiliano Reach = foce RS = 49



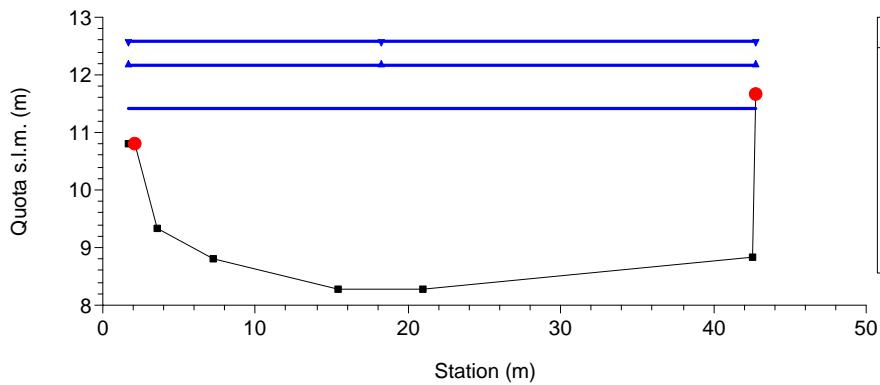
Quiliano-Foce

River = quiliano Reach = foce RS = 48



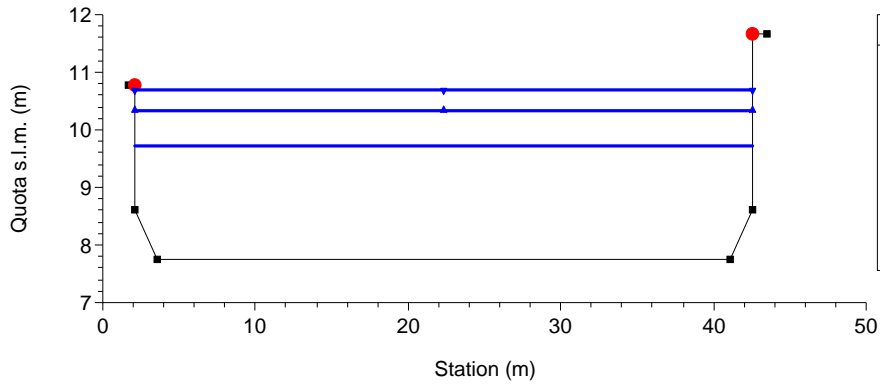
Quiliano-Foce

River = quiliano Reach = foce RS = 47



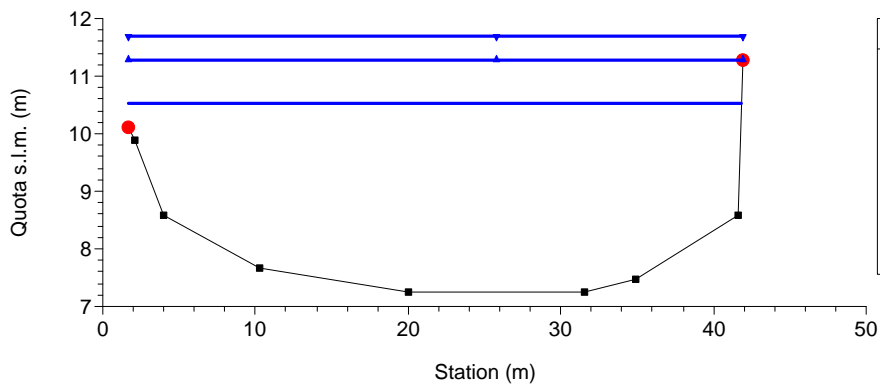
Quiliano-Foce

River = quiliano Reach = foce RS = 46



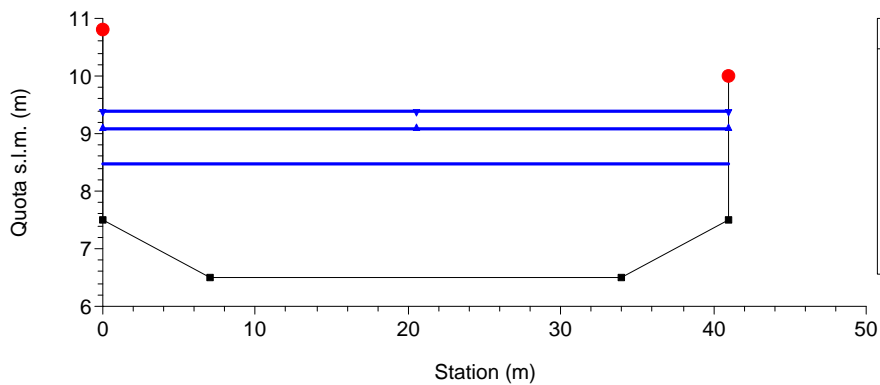
Quiliano-Foce

River = quiliano Reach = foce RS = 45



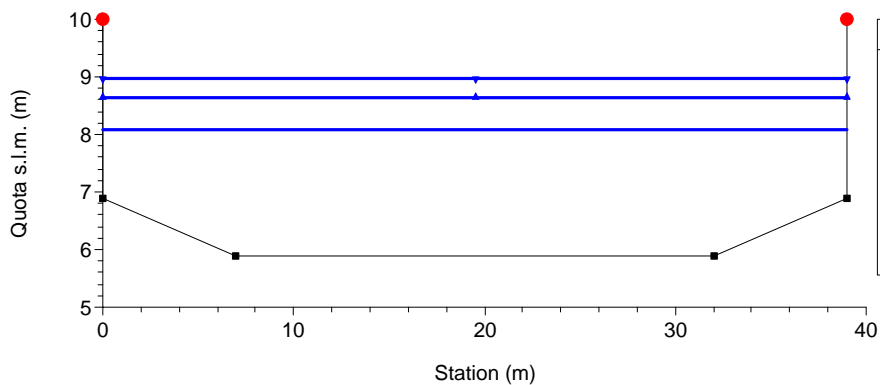
Quiliano-Foce

River = quiliano Reach = foce RS = 44



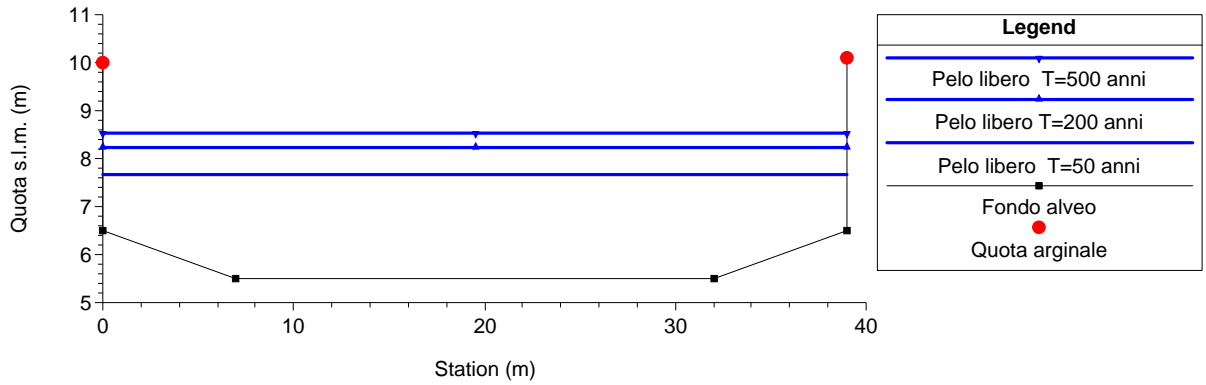
Quiliano-Foce

River = quiliano Reach = foce RS = 43



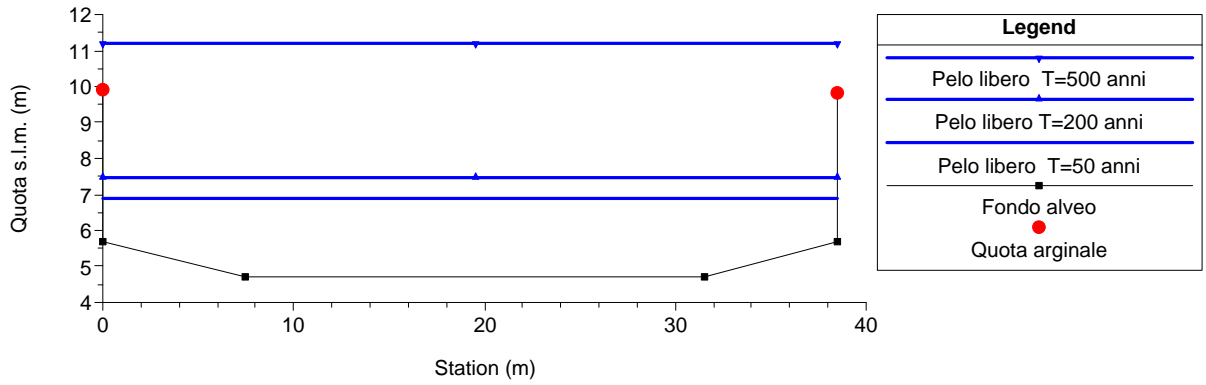
Quiliano-Foce

River = quiliano Reach = foce RS = 42



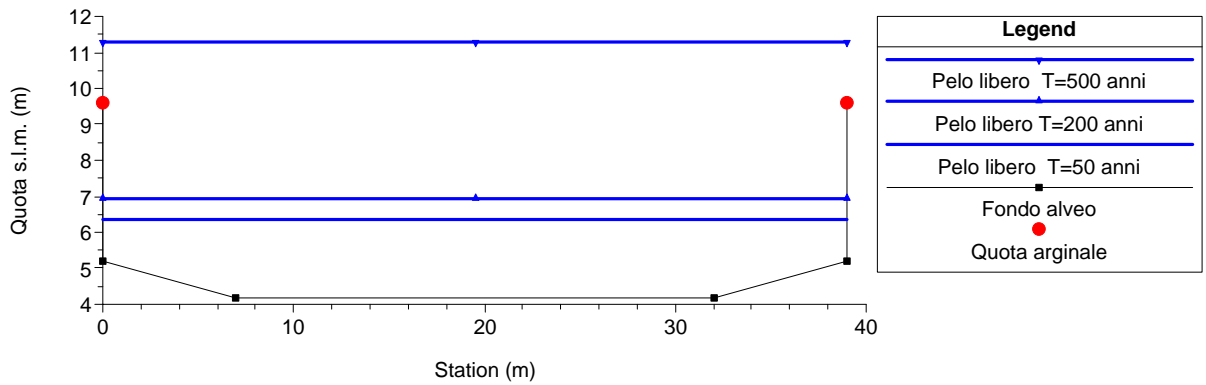
Quiliano-Foce

River = quiliano Reach = foce RS = 41



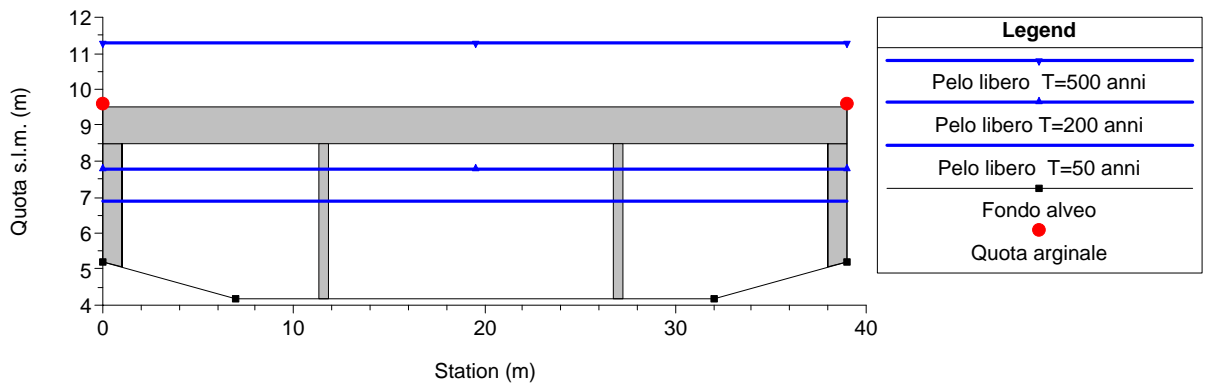
Quiliano-Foce

River = quiliano Reach = foce RS = 40



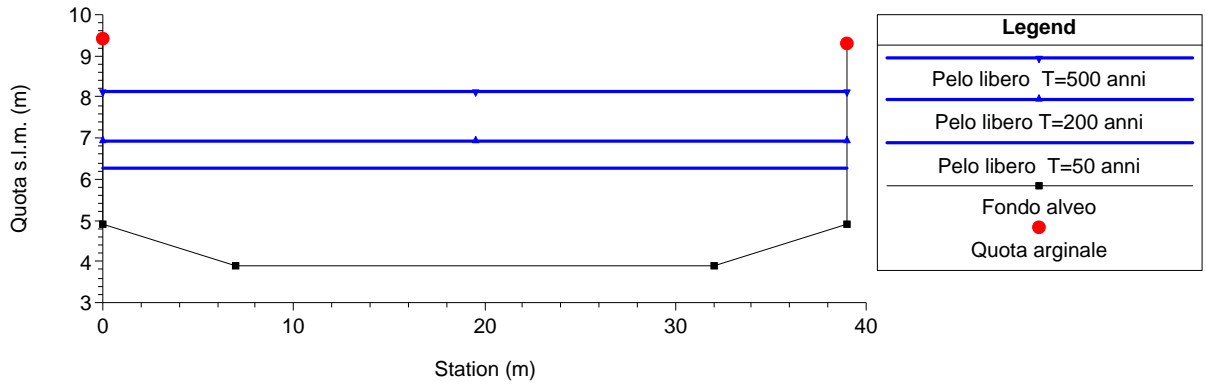
Quiliano-Foce

River = quiliano Reach = foce RS = 39 BR U



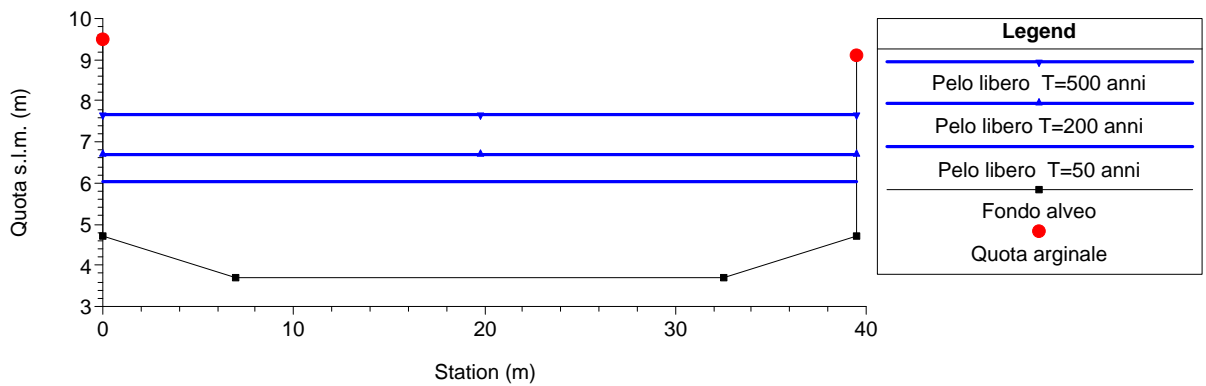
Quiliano-Foce

River = quiliano Reach = foce RS = 38



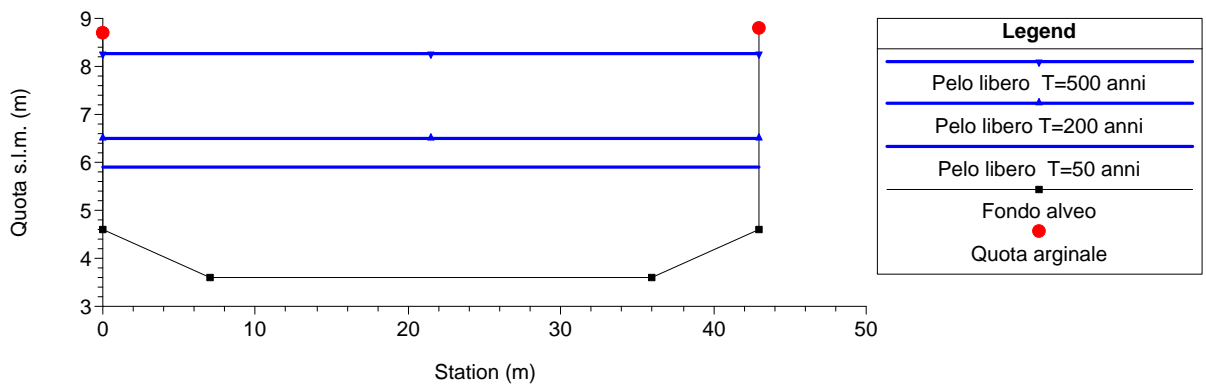
Quiliano-Foce

River = quiliano Reach = foce RS = 37



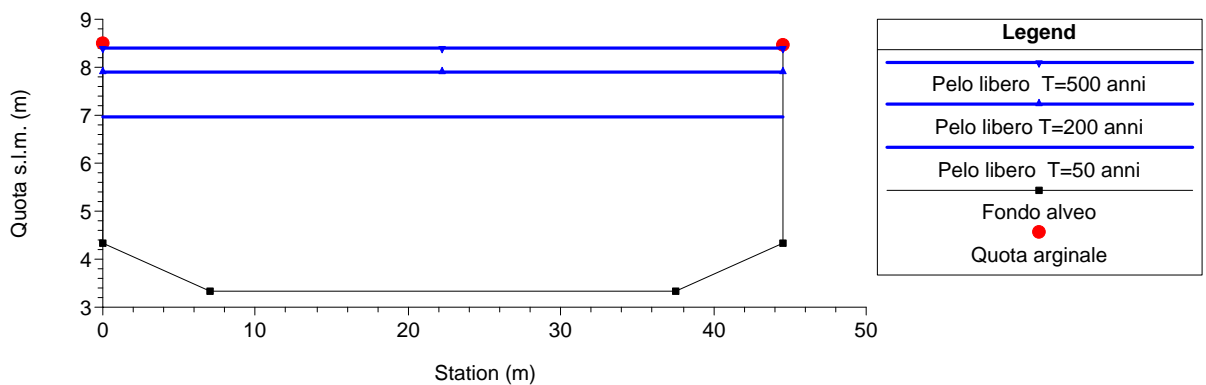
Quiliano-Foce

River = quiliano Reach = foce RS = 36



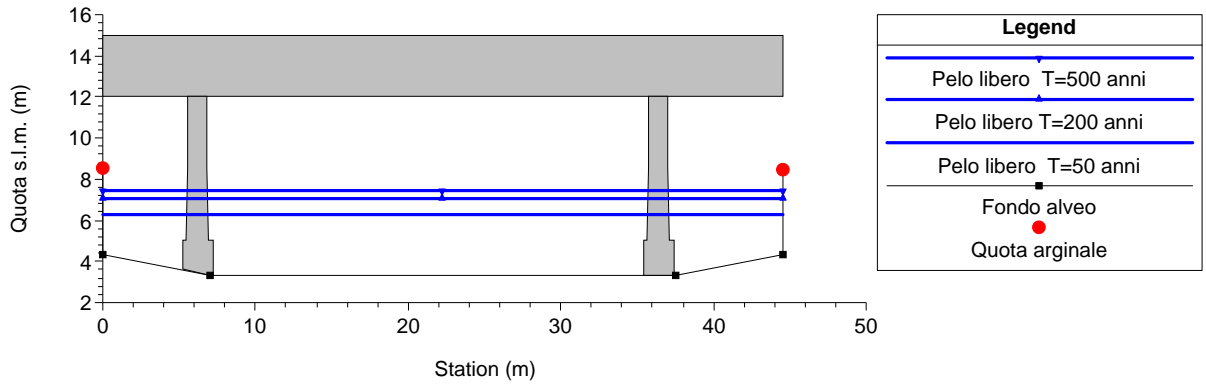
Quiliano-Foce

River = quiliano Reach = foce RS = 35



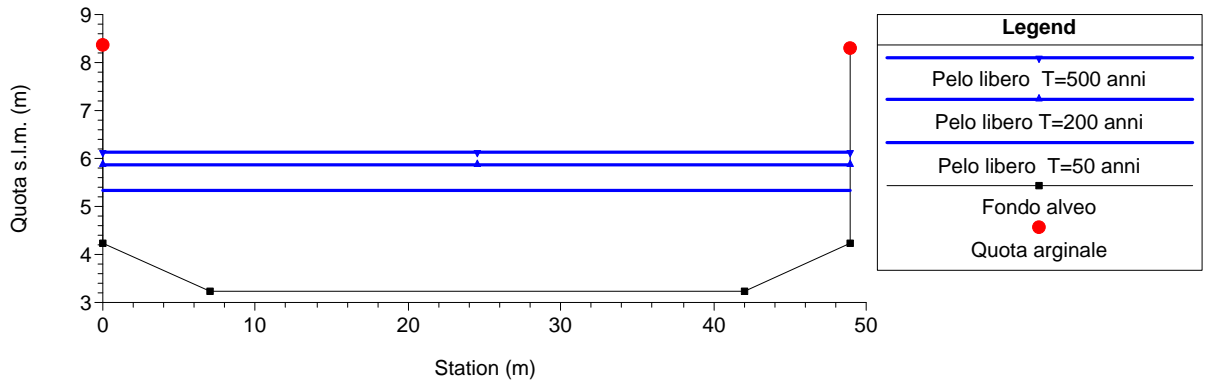
Quiliano-Foce

River = quiliano Reach = foce RS = 34 BR U



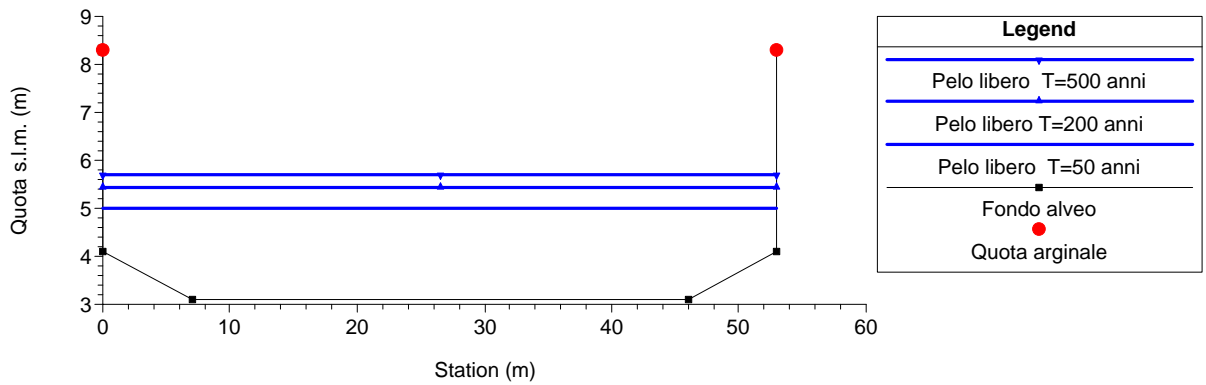
Quiliano-Foce

River = quiliano Reach = foce RS = 33



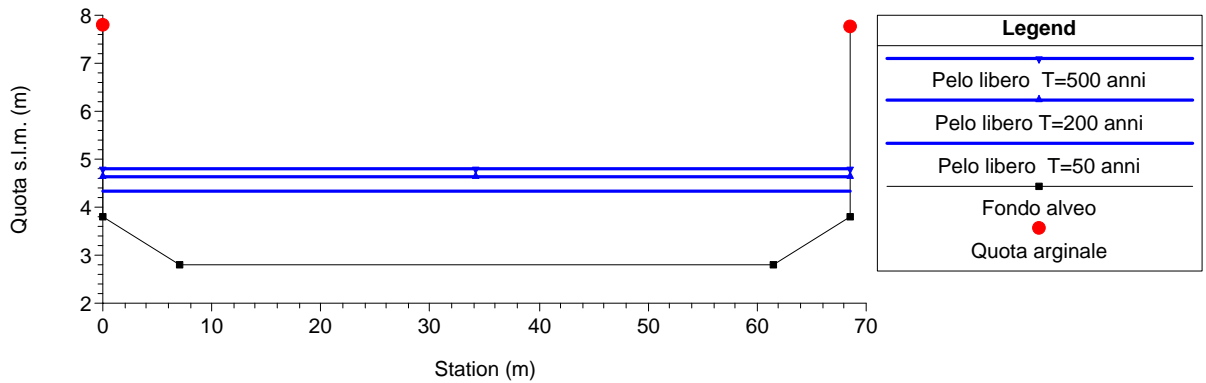
Quiliano-Foce

River = quiliano Reach = foce RS = 32



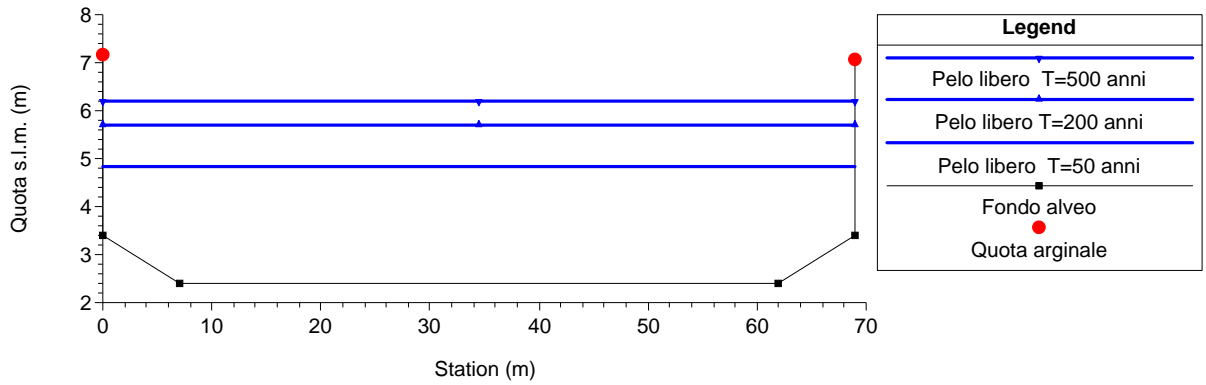
Quiliano-Foce

River = quiliano Reach = foce RS = 31



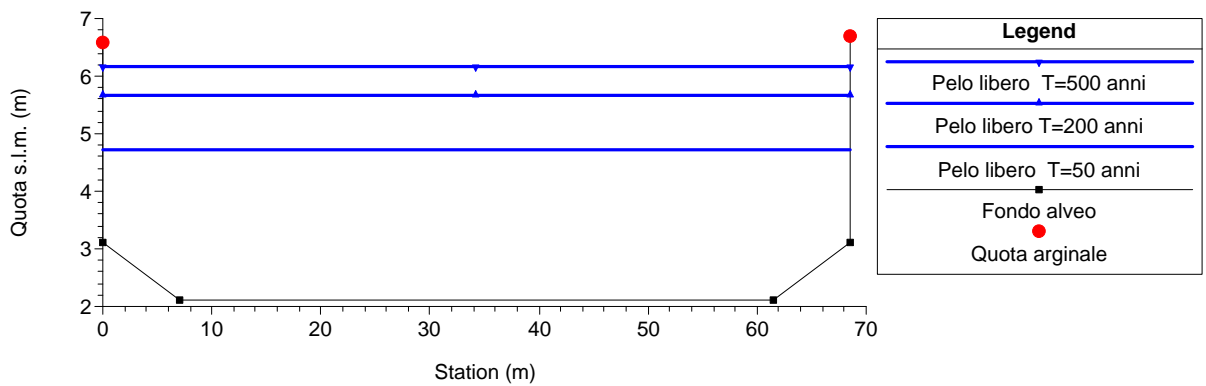
Quiliano-Foce

River = quiliano Reach = foce RS = 30



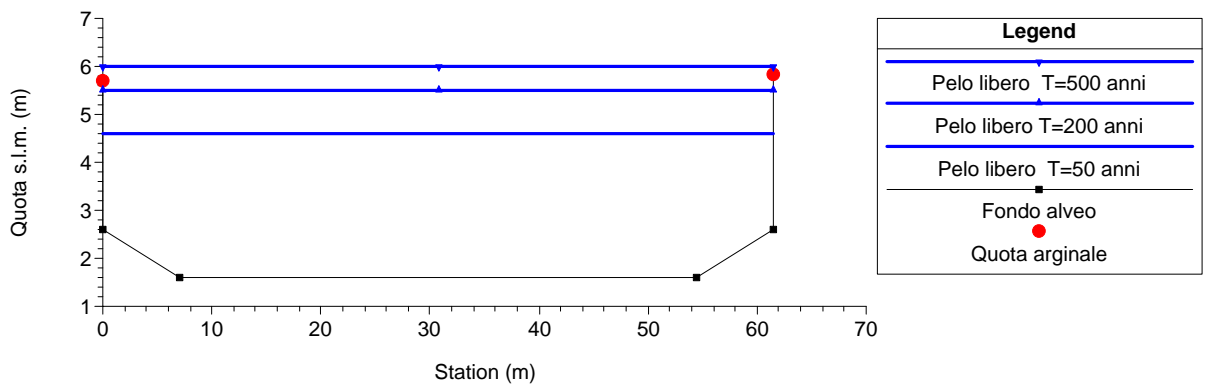
Quiliano-Foce

River = quiliano Reach = foce RS = 29



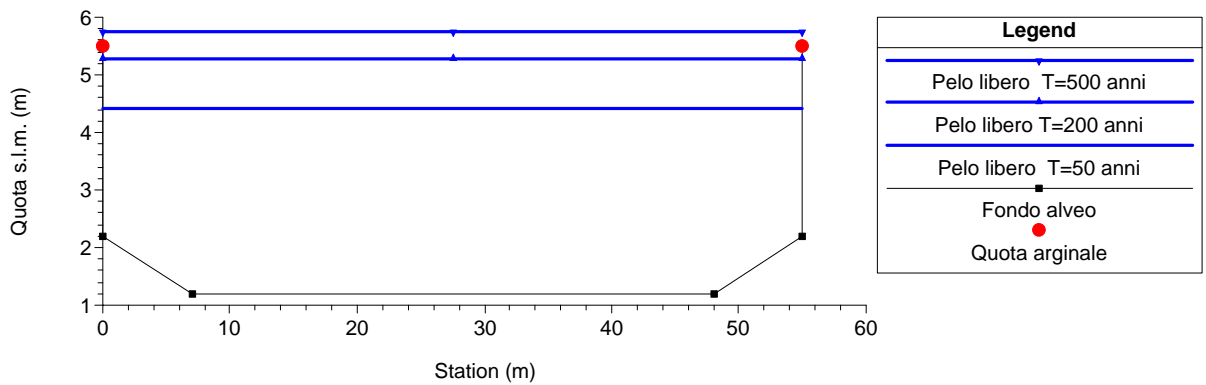
Quiliano-Foce

River = quiliano Reach = foce RS = 28



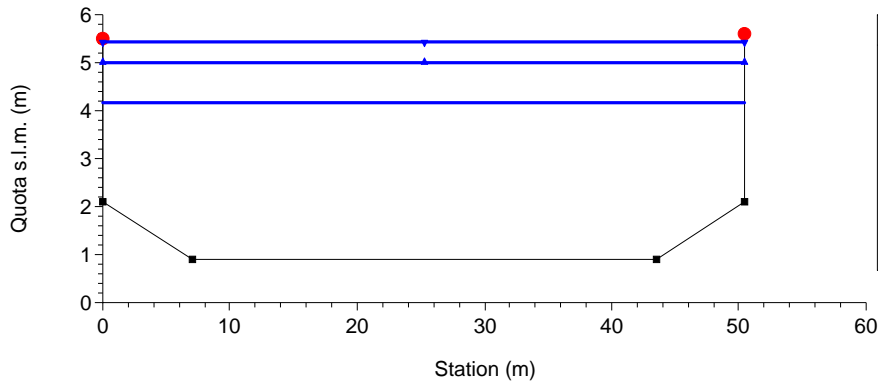
Quiliano-Foce

River = quiliano Reach = foce RS = 27



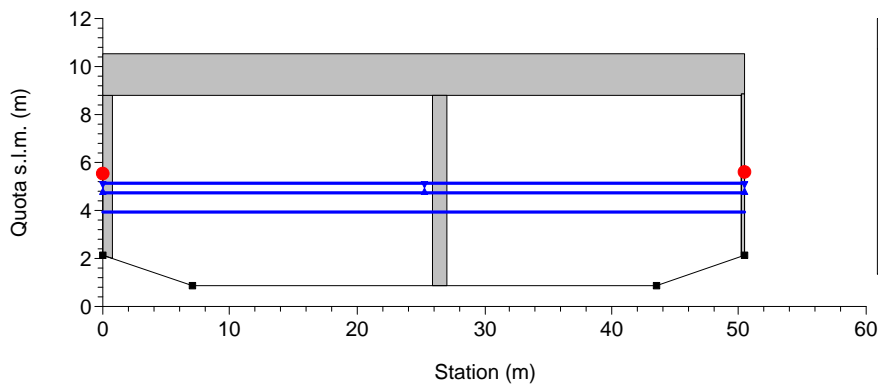
Quiliano-Foce

River = quiliano Reach = foce RS = 26



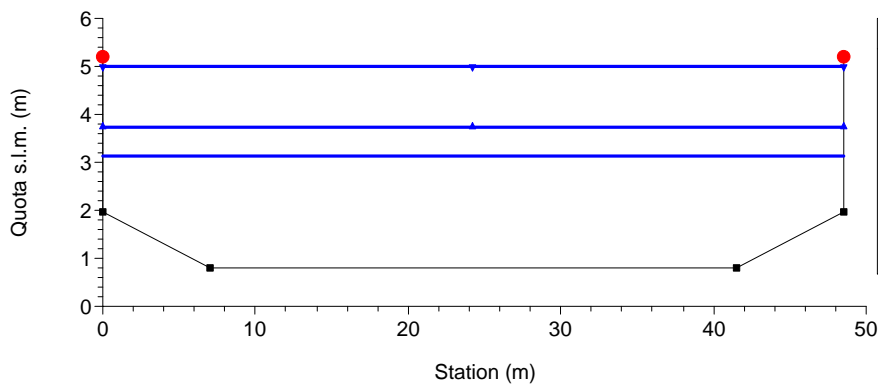
Quiliano-Foce

River = quiliano Reach = foce RS = 25 BR U



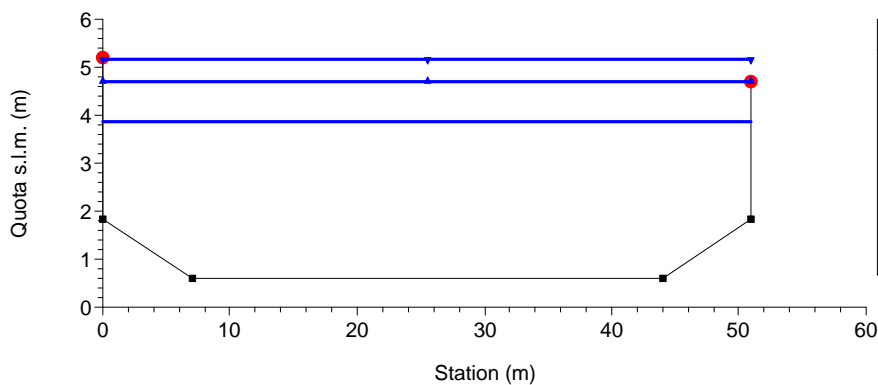
Quiliano-Foce

River = quiliano Reach = foce RS = 24



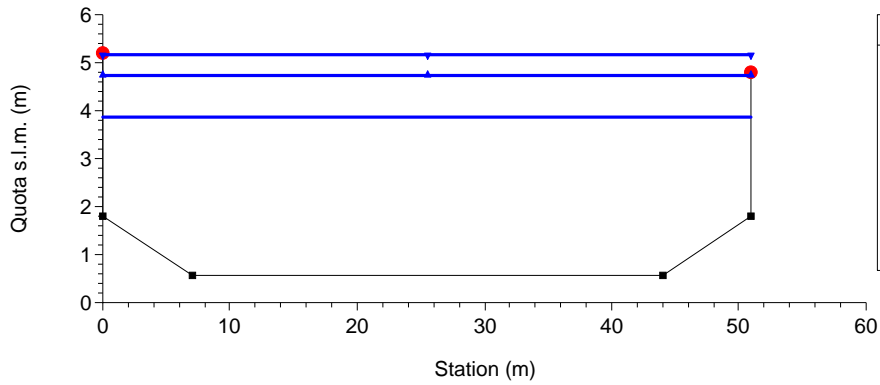
Quiliano-Foce

River = quiliano Reach = foce RS = 23



Quiliano-Foce

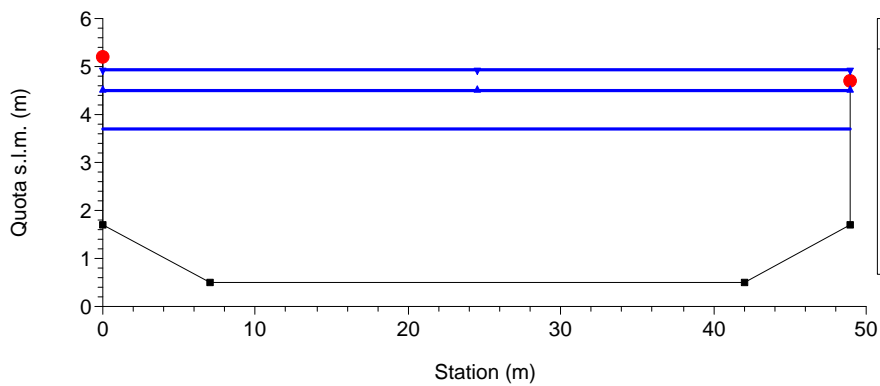
River = quiliano Reach = foce RS = 22



Legend	
	Pelo libero T=500 anni
	Pelo libero T=200 anni
	Pelo libero T=50 anni
	Fondo alveo
	Quota arginale

Quiliano-Foce

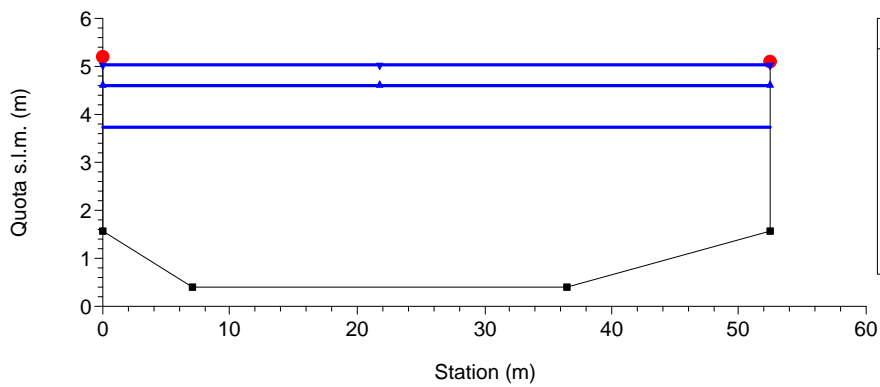
River = quiliano Reach = foce RS = 21



Legend	
	Pelo libero T=500 anni
	Pelo libero T=200 anni
	Pelo libero T=50 anni
	Fondo alveo
	Quota arginale

Quiliano-Foce

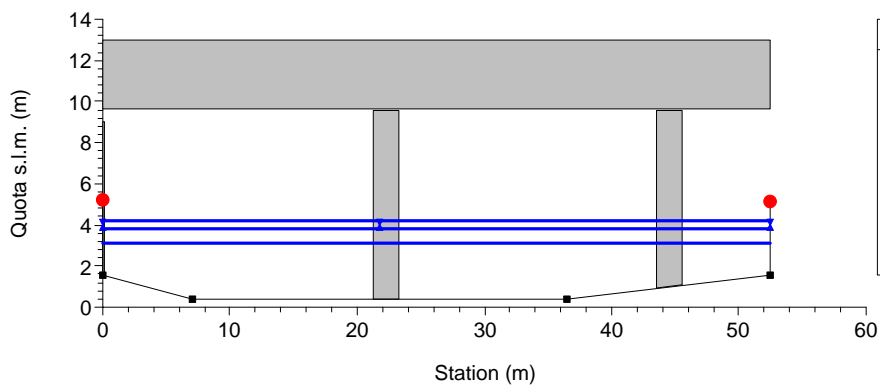
River = quiliano Reach = foce RS = 20



Legend	
	Pelo libero T=500 anni
	Pelo libero T=200 anni
	Pelo libero T=50 anni
	Fondo alveo
	Quota arginale

Quiliano-Foce

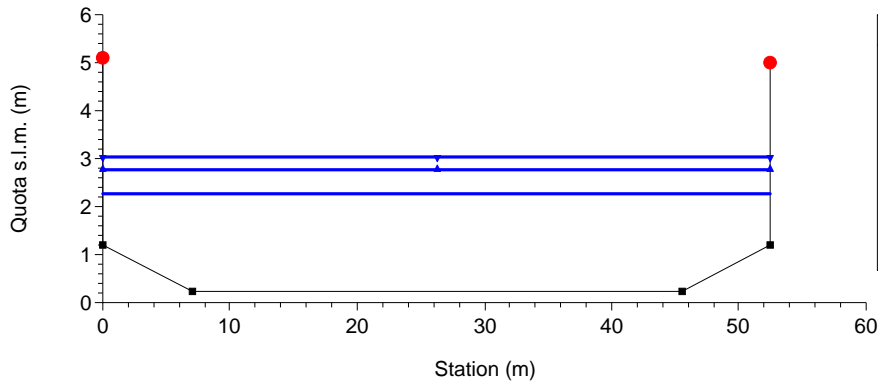
River = quiliano Reach = foce RS = 19 BR U



Legend	
	Pelo libero T=500 anni
	Pelo libero T=200 anni
	Pelo libero T=50 anni
	Fondo alveo
	Quota arginale

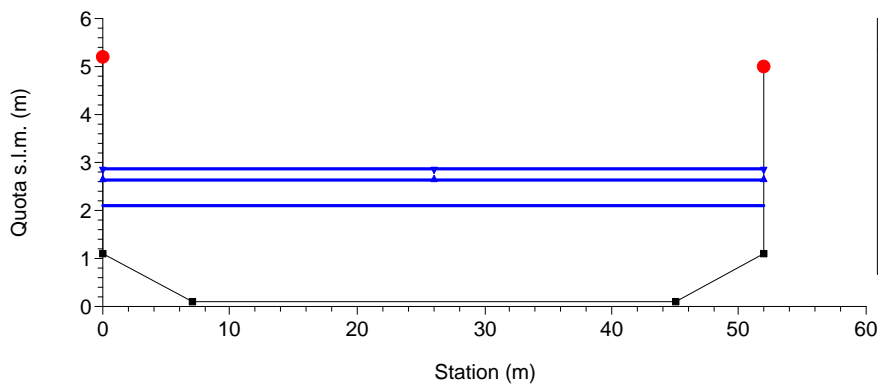
Quiliano-Foce

River = quiliano Reach = foce RS = 18



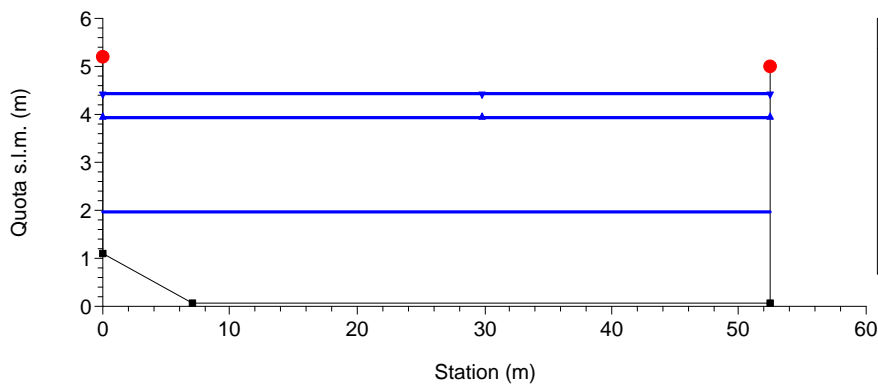
Quiliano-Foce

River = quiliano Reach = foce RS = 17



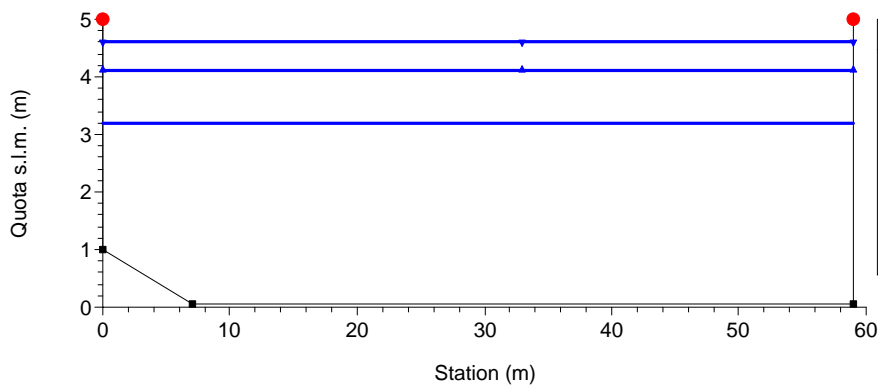
Quiliano-Foce

River = quiliano Reach = foce RS = 16



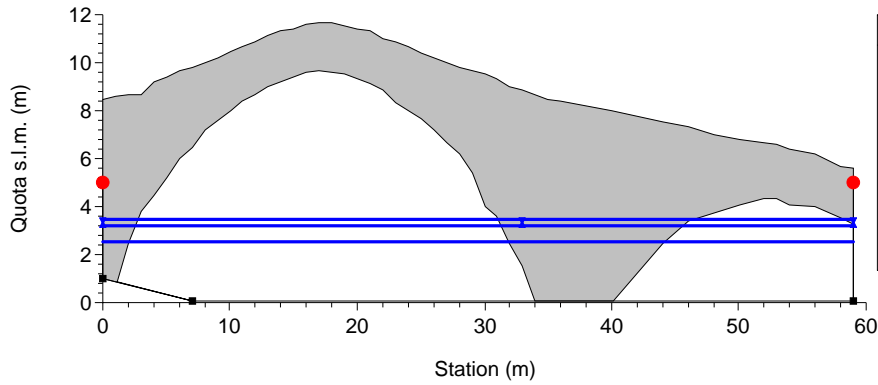
Quiliano-Foce

River = quiliano Reach = foce RS = 15



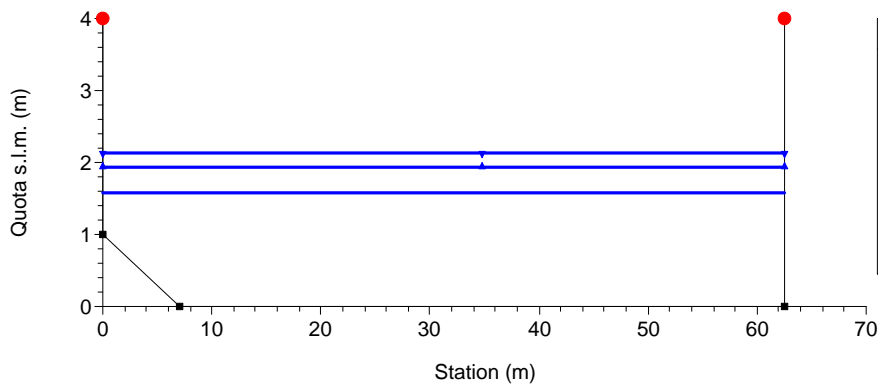
Quiliano-Foce

River = quiliano Reach = foce RS = 14 BR U



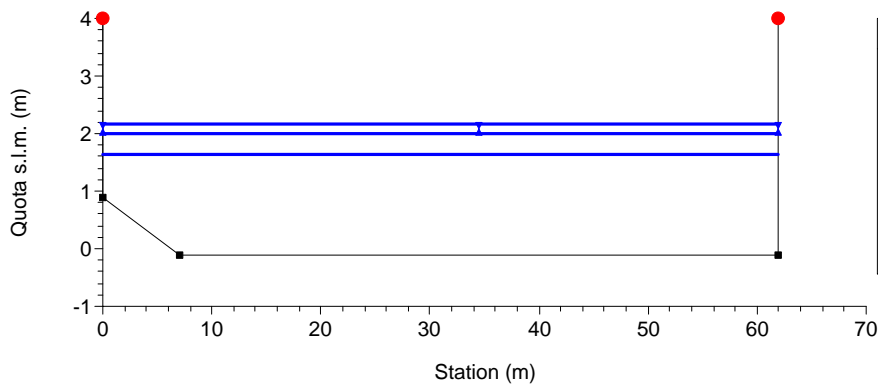
Quiliano-Foce

River = quiliano Reach = foce RS = 13



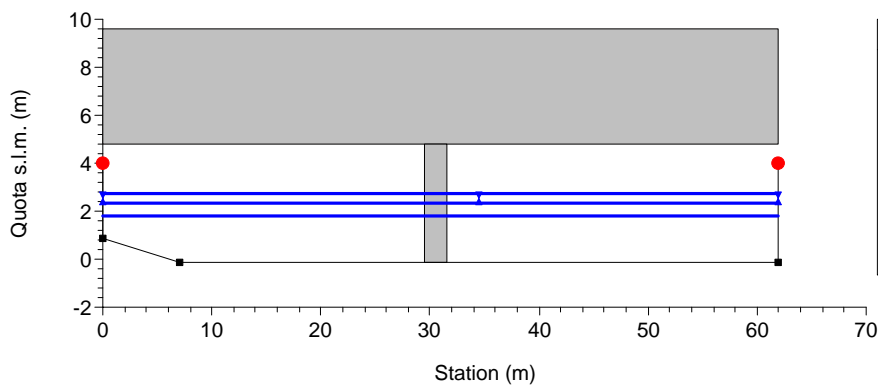
Quiliano-Foce

River = quiliano Reach = foce RS = 12



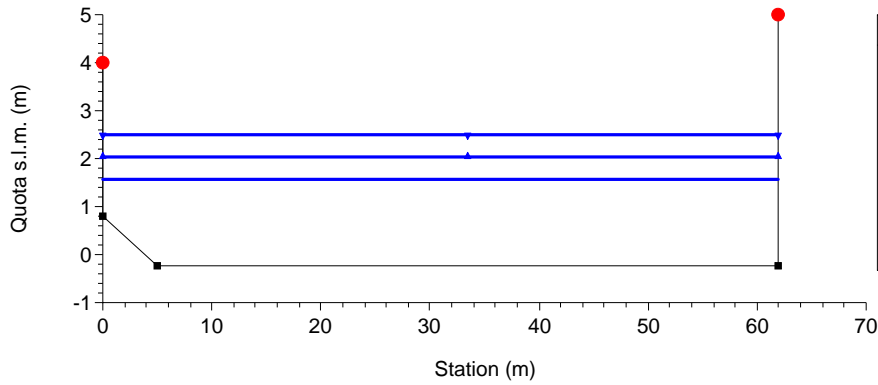
Quiliano-Foce

River = quiliano Reach = foce RS = 11 BR U



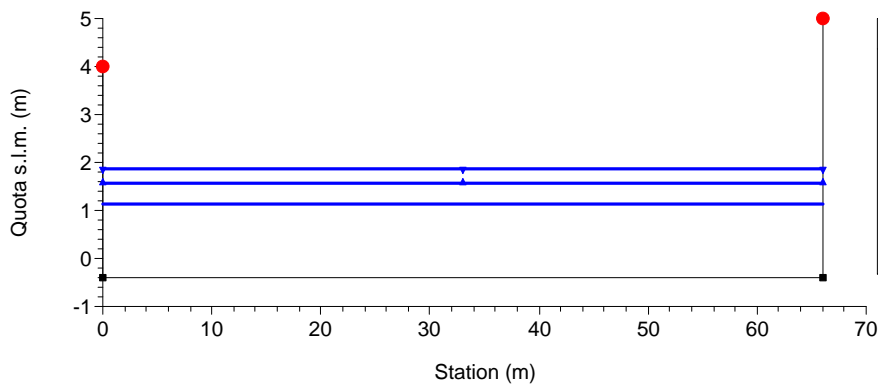
Quiliano-Foce

River = quiliano Reach = foce RS = 10



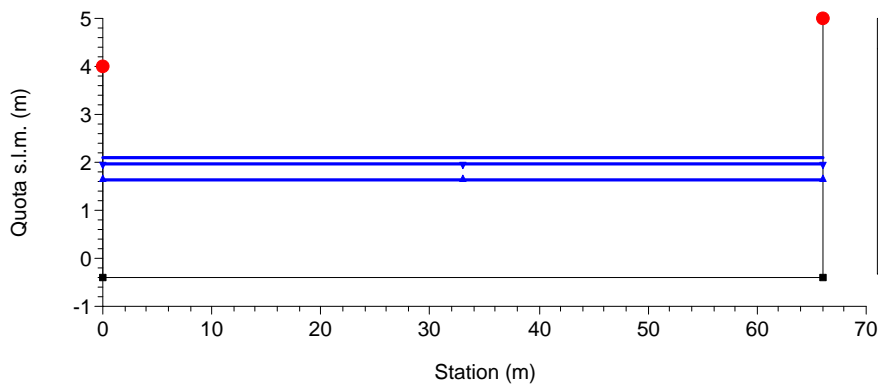
Quiliano-Foce

River = quiliano Reach = foce RS = 9



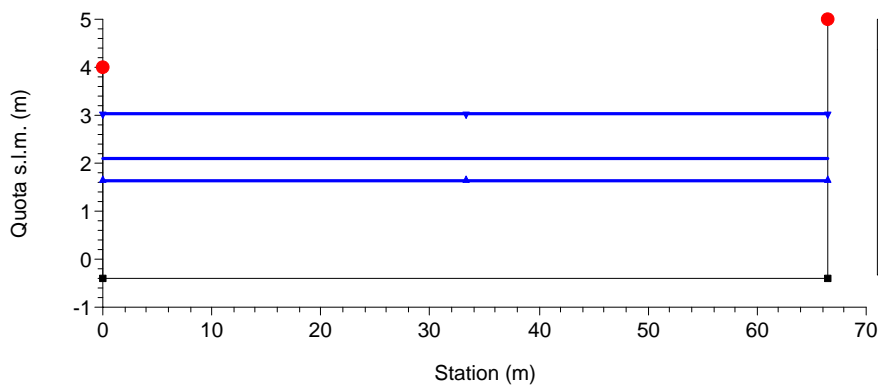
Quiliano-Foce

River = quiliano Reach = foce RS = 8



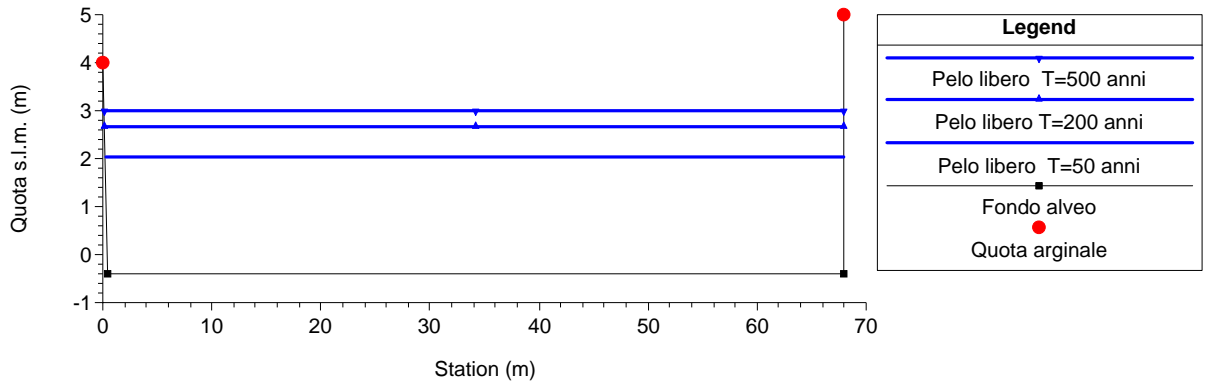
Quiliano-Foce

River = quiliano Reach = foce RS = 7



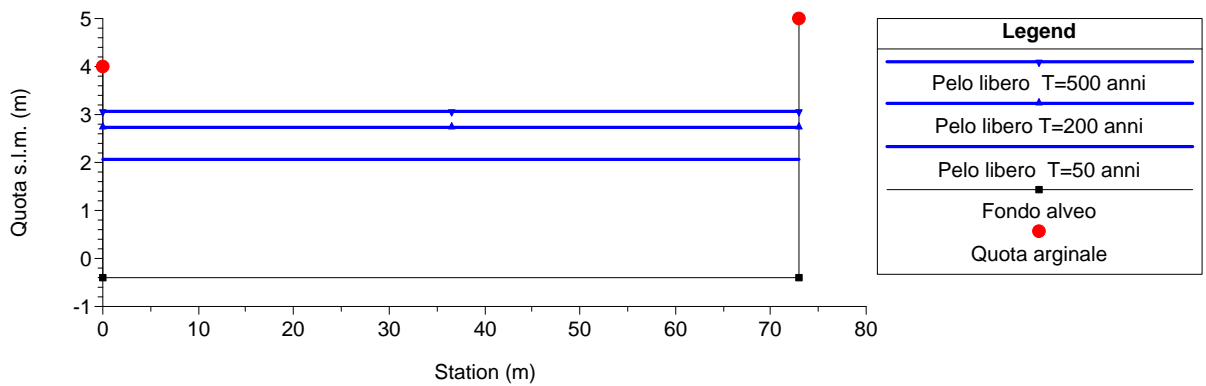
Quiliano-Foce

River = quiliano Reach = foce RS = 6



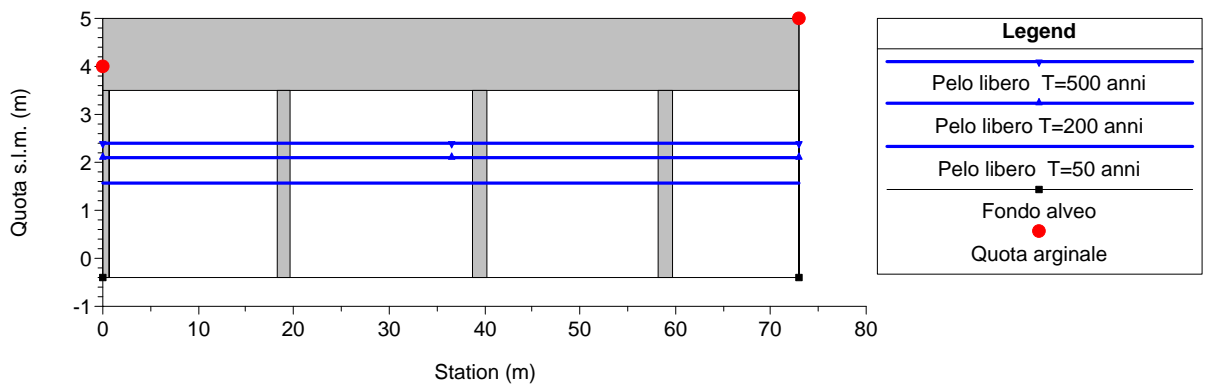
Quiliano-Foce

River = quiliano Reach = foce RS = 5



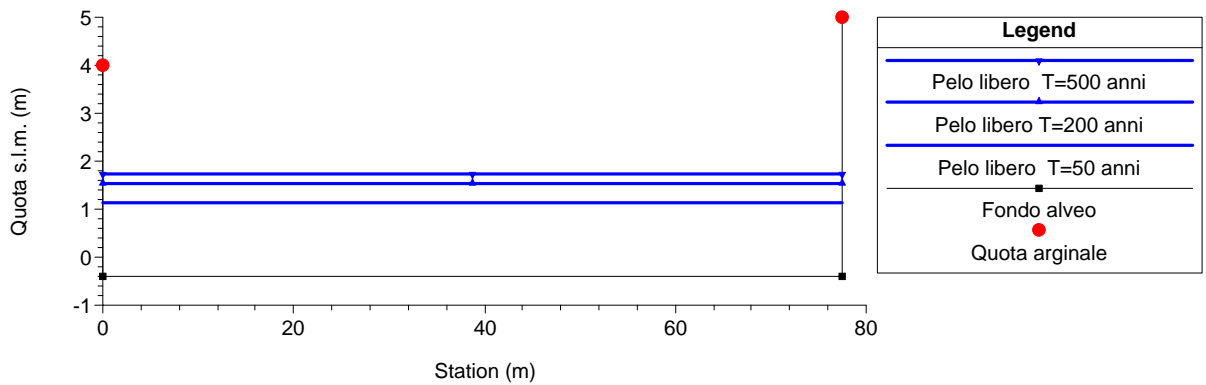
Quiliano-Foce

River = quiliano Reach = foce RS = 4 BR U



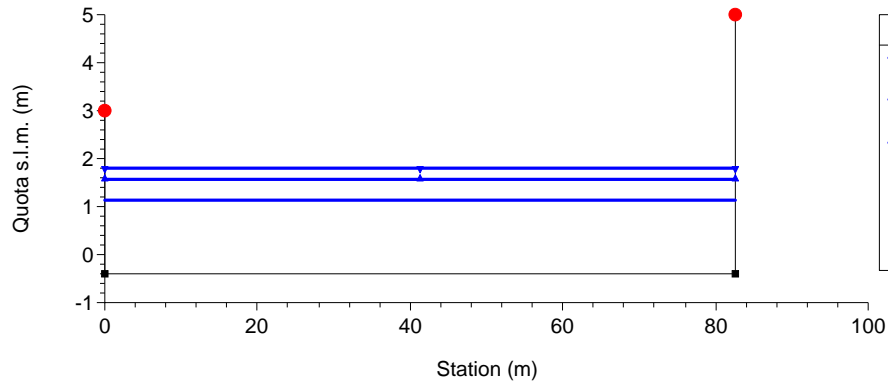
Quiliano-Foce

River = quiliano Reach = foce RS = 3



Quiliano-Foce

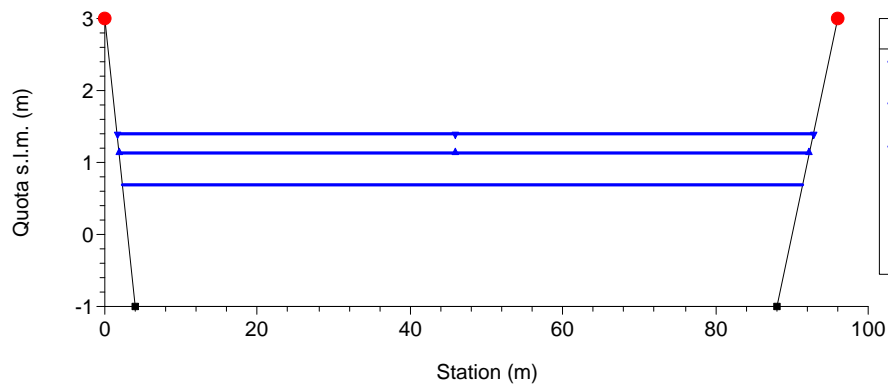
River = quiliano Reach = foce RS = 2



Legend	
	Pelo libero T=500 anni
	Pelo libero T=200 anni
	Pelo libero T=50 anni
	Fondo alveo
	Quota arginale

Quiliano-Foce

River = quiliano Reach = foce RS = 1



Legend	
	Pelo libero T=500 anni
	Pelo libero T=200 anni
	Pelo libero T=50 anni
	Fondo alveo
	Quota arginale

**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

QUILIANO FOCE stato di progetto

Per la redazione delle Tavv. 9 (fasce di inondabilità), 11 (rischio idraulico) e 14 (aree inondabili) non sono state utilizzate le risultanze della modellazione effettuata con la configurazione di progetto. La cartografia di Piano sarà aggiornata ad avvenuta ultimazione degli interventi ad oggi in itinere.

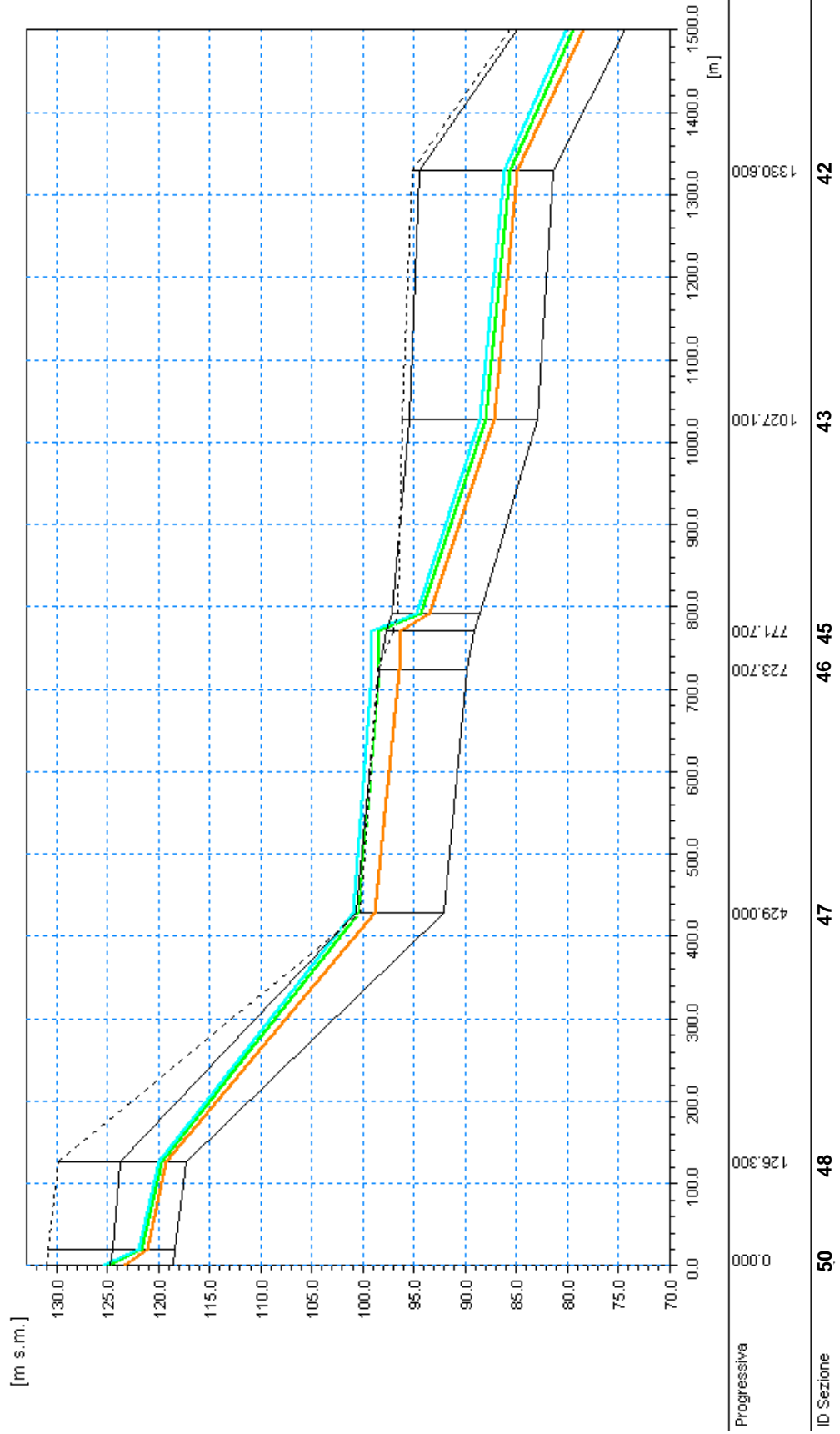
18	590	0.25	5.1	5	2.26	2.47	4.07	5.97	98.84	1.39
17	590	0.1	5.2	5	2.1	2.5	3.98	6.08	97.06	1.42
16	590	0.08	5.2	5	1.98	2.41	3.9	6.15	95.95	1.45
15	590	0.05	5	5	3.19	2.23	3.73	3.24	182.11	0.59
14	Bridge									
13	590	0	4	4	1.58	2.14	3.54	6.2	95.09	1.61
12	590	-0.1	4	4	1.64	2.15	3.27	5.66	104.23	1.39
11	Bridge									
10	590	-0.25	4	5	1.55	2.14	3.04	5.41	109.12	1.3
9	590	-0.4	4	5	1.14	2.01	2.86	5.8	101.68	1.49
8	590	-0.4	4	5	2.08	2.01	2.74	3.6	163.93	0.73
7	590	-0.4	4	5	2.09	2	2.73	3.57	165.23	0.72
6	590	-0.4	4	5	2.05	1.98	2.69	3.57	165.38	0.73
5	590	-0.4	4	5	2.06	1.88	2.61	3.28	179.72	0.67
4	Bridge									
3	590	-0.4	4	5	1.15	1.81	2.38	4.93	119.74	1.27
2	590	-0.4	3	5	1.14	1.73	2.24	4.65	126.83	1.2
1	590	-1	3	3	0.68	1.69	1.52	4.05	145.54	1.01

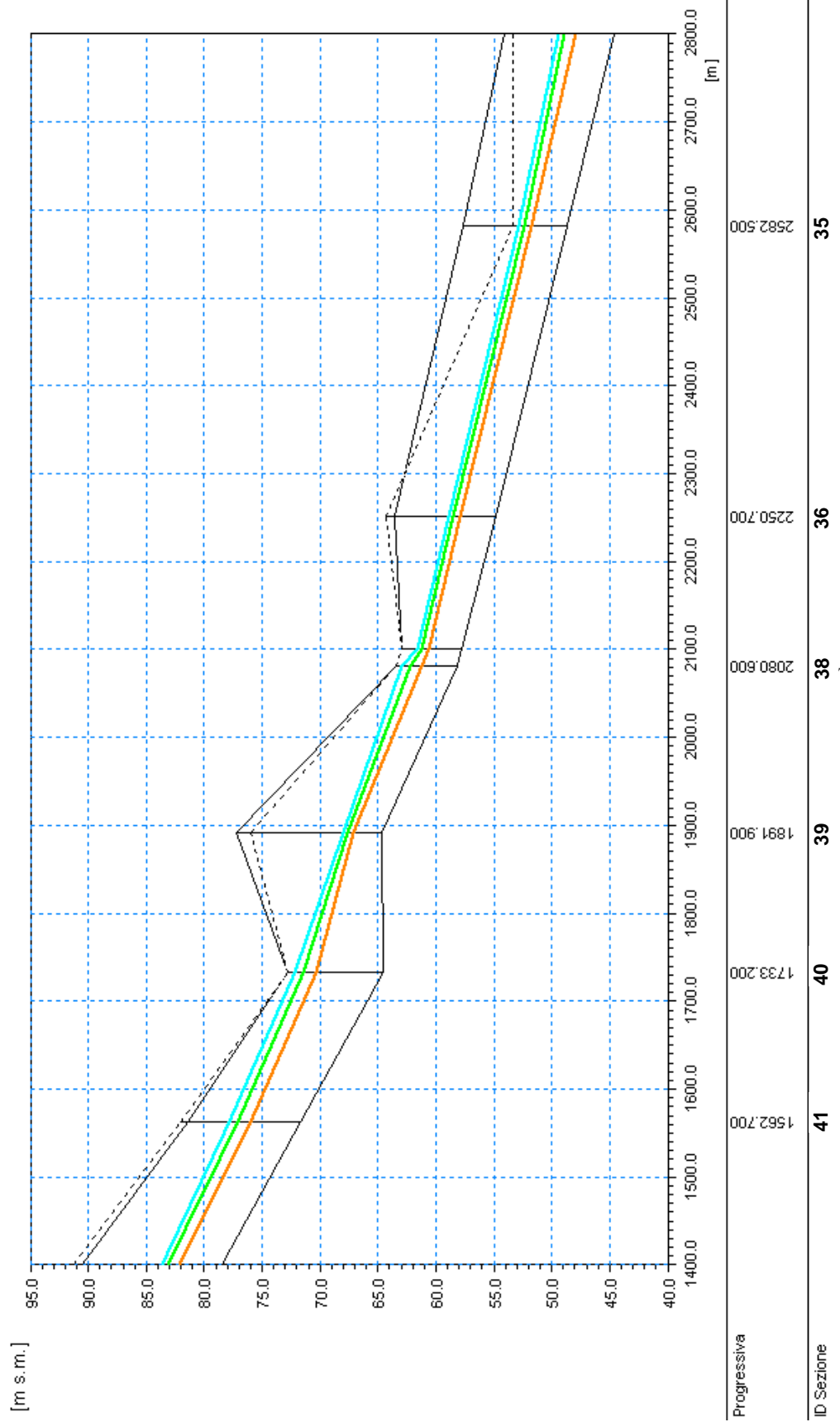
18	850	0.25	5.1	5	2.77	3.12	5.11	6.78	125.45	1.4
17	850	0.1	5.2	5	2.62	3.15	5.01	6.86	123.96	1.42
16	850	0.08	5.2	5	3.94	3.06	4.87	4.27	199.06	0.7
15	850	0.05	5	5	4.11	2.83	4.77	3.6	236.21	0.57
14	Bridge									
13	850	0	4	4	1.94	2.72	4.59	7.21	117.88	1.68
12	850	-0.1	4	4	1.99	2.73	4.31	6.74	126.02	1.51
11	Bridge									
10	850	-0.25	4	5	2.03	2.72	3.94	6.13	138.56	1.31
9	850	-0.4	4	5	1.55	2.56	3.77	6.6	128.86	1.51
8	850	-0.4	4	5	1.63	2.56	3.68	6.35	133.76	1.42
7	850	-0.4	4	5	1.62	2.55	3.66	6.32	134.57	1.42
6	850	-0.4	4	5	2.68	2.53	3.53	4.08	208.23	0.74
5	850	-0.4	4	5	2.72	2.4	3.43	3.73	227.95	0.67
4	Bridge									
3	850	-0.4	4	5	1.53	2.31	3.17	5.67	149.85	1.3
2	850	-0.4	3	5	1.56	2.21	2.97	5.25	161.84	1.2
1	850	-1	3	3	1.14	2.16	2.2	4.56	186.57	1.01

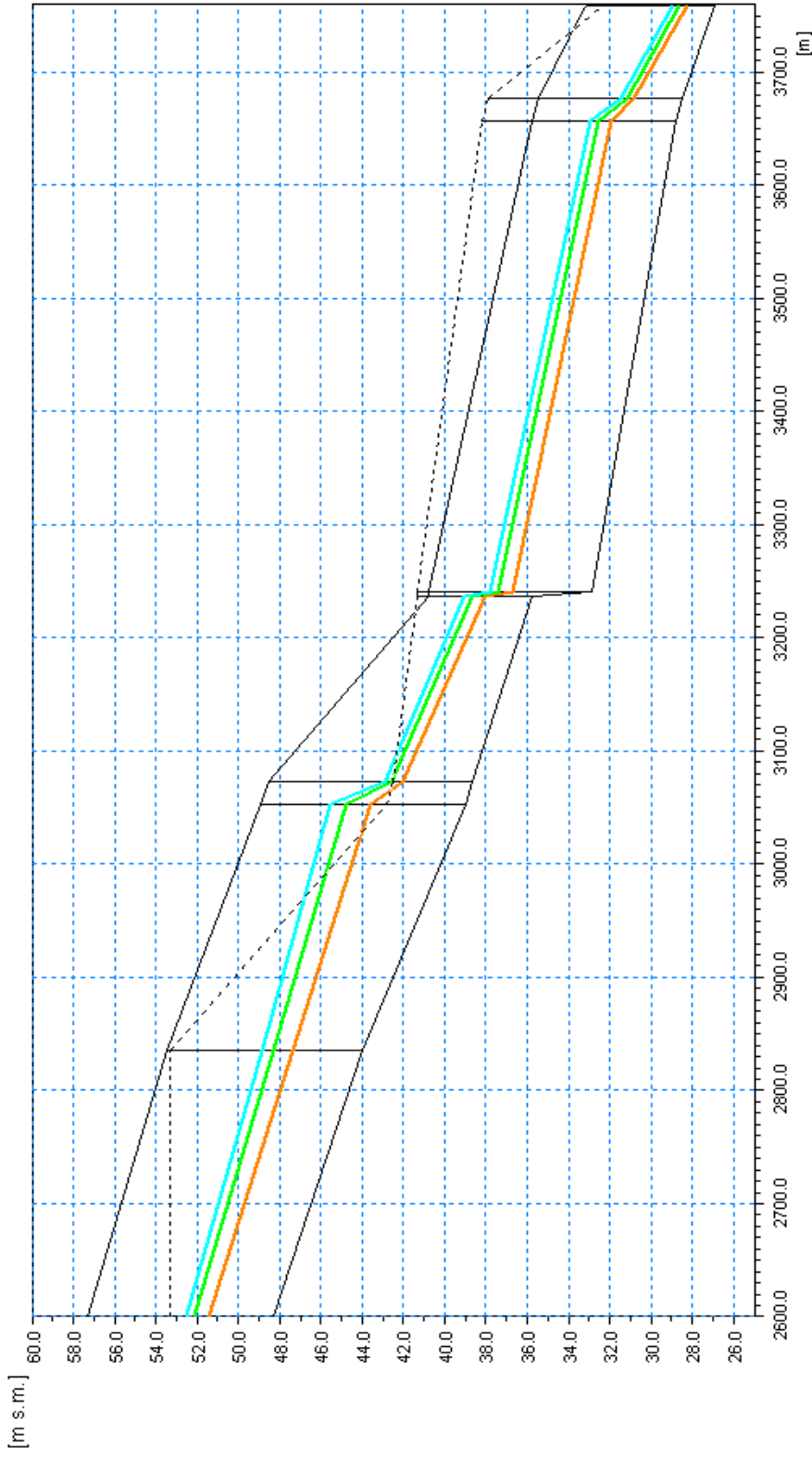
18	1000	0.25	5.1	5	3.03	3.46	5.65	7.17	139.49	1.4
17	1000	0.1	5.2	5	2.88	3.49	5.57	7.27	137.62	1.43
16	1000	0.08	5.2	5	4.42	3.4	5.43	4.46	224.44	0.69
15	1000	0.05	5	5	4.61	3.14	5.33	3.76	265.61	0.57
14	Bridge									
13	1000	0	4	4	2.13	3.02	5.17	7.73	129.34	1.72
12	1000	-0.1	4	4	2.17	3.04	4.88	7.29	137.13	1.57
11	Bridge									
10	1000	-0.25	4	5	2.49	3.03	4.31	5.98	167.34	1.16
9	1000	-0.4	4	5	1.86	2.86	4.15	6.71	149.1	1.42
8	1000	-0.4	4	5	1.95	2.86	4.07	6.44	155.17	1.34
7	1000	-0.4	4	5	3.03	2.85	4.01	4.38	228.17	0.76
6	1000	-0.4	4	5	3.01	2.81	3.97	4.33	230.73	0.75
5	1000	-0.4	4	5	3.07	2.67	3.87	3.94	253.52	0.68
4	Bridge									
3	1000	-0.4	4	5	1.75	2.57	3.59	6.01	166.27	1.31
2	1000	-0.4	3	5	1.8	2.47	3.35	5.52	181.27	1.19
1	1000	-1	3	3	1.4	2.4	2.55	4.76	210.19	1

**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

RIO TECCI - T.QUAZZOLA







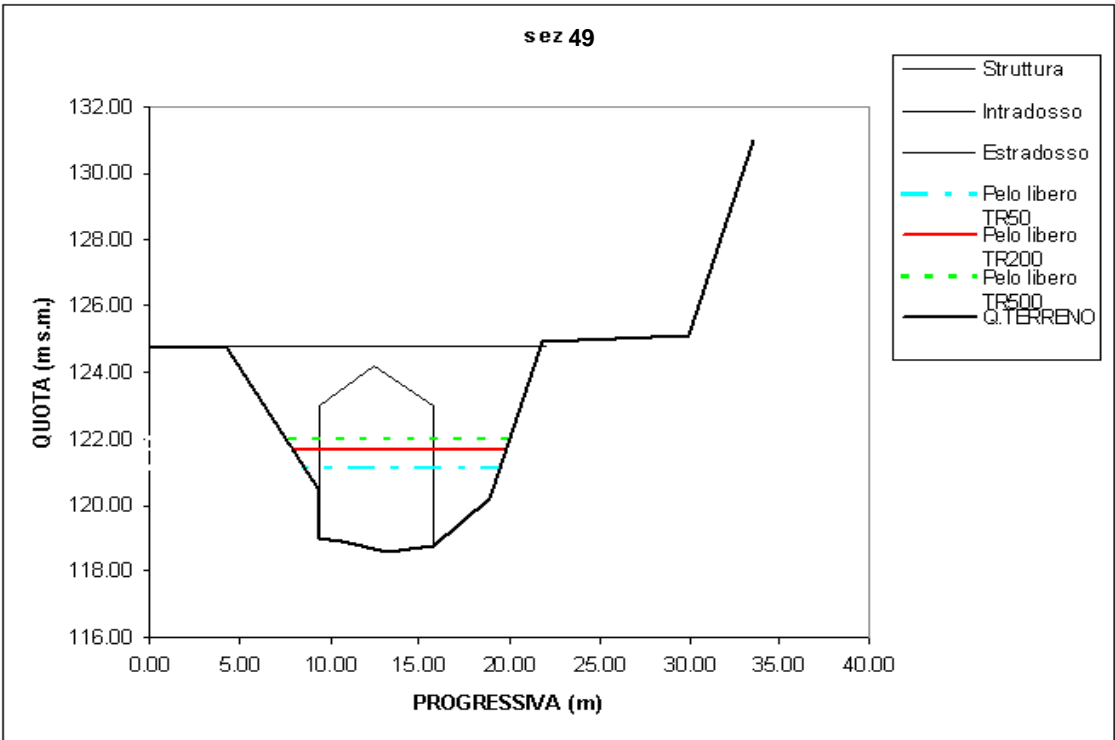
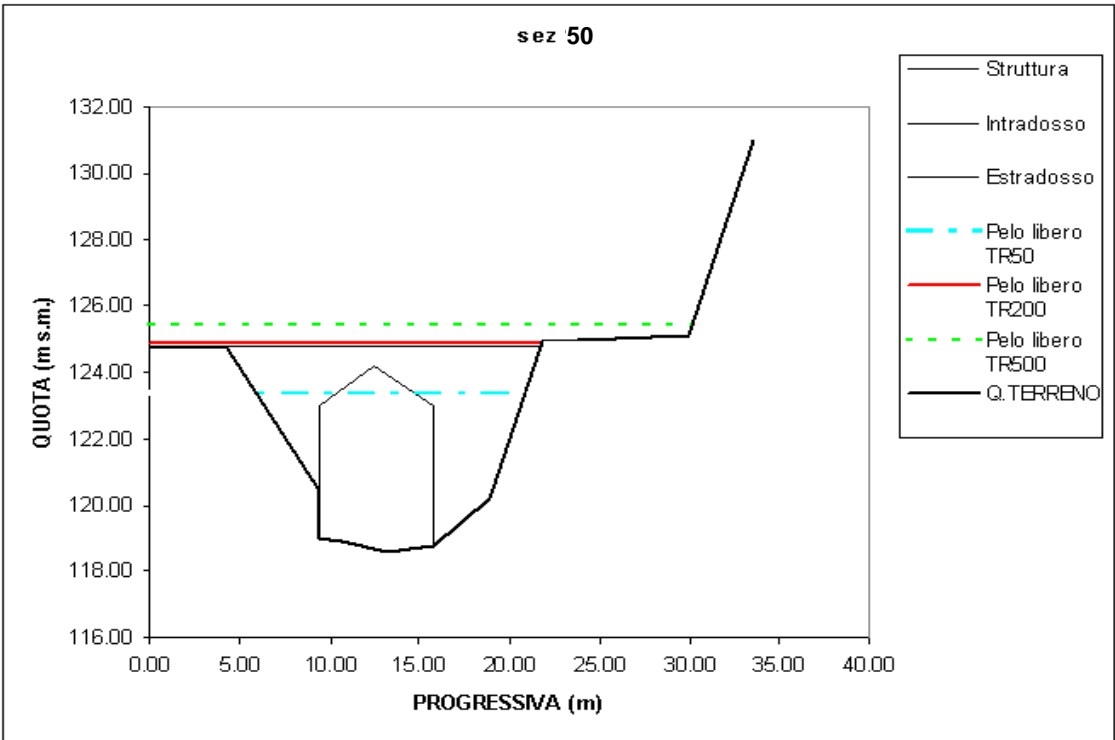
Progressiva	3759.400	27
	3676.300	29 28
	3656.300	
	3237.100	31
	3072.400	3332
	2836.100	34

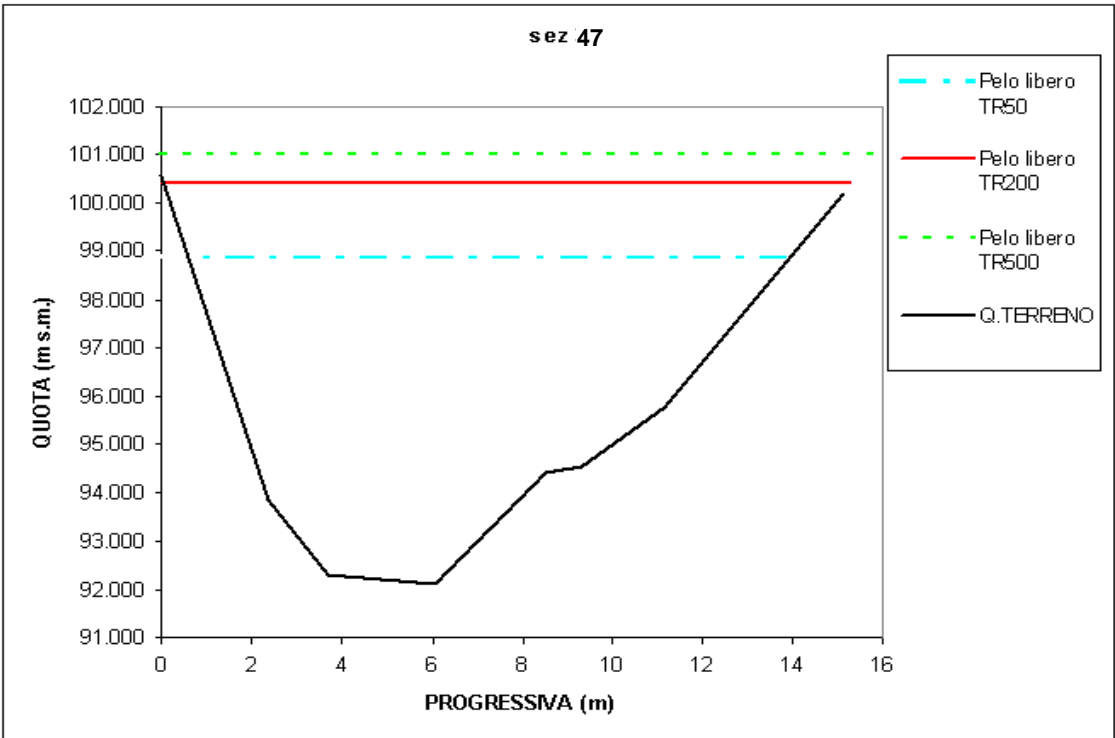
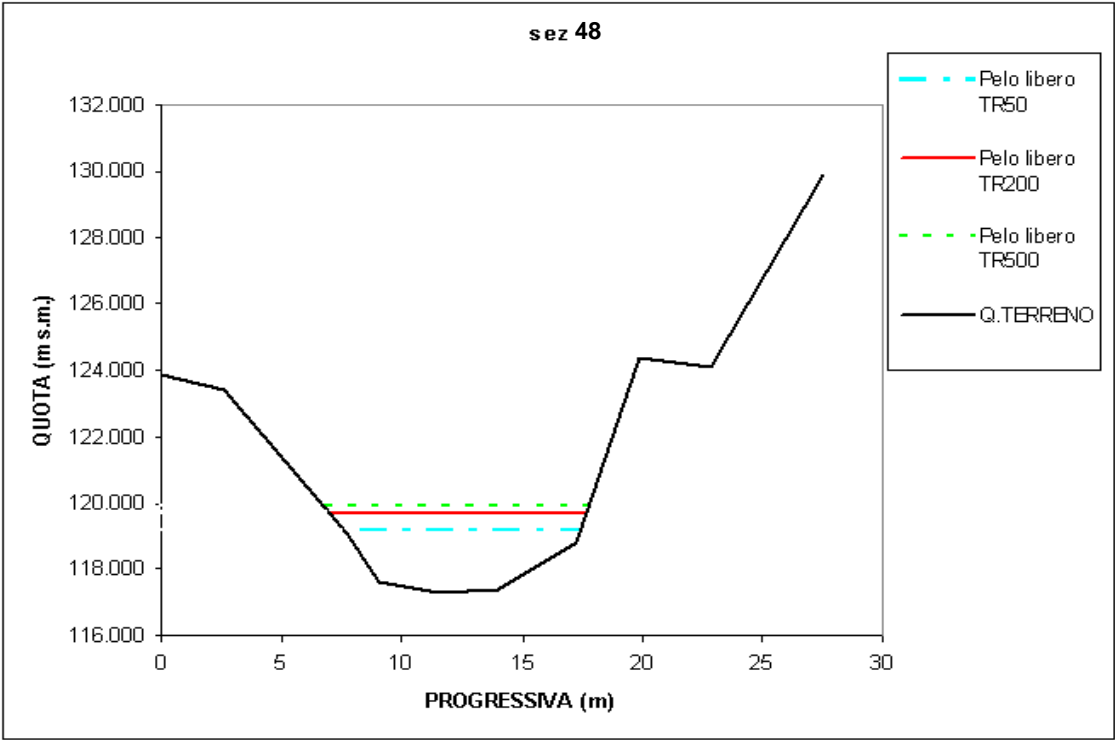
ID Sezione

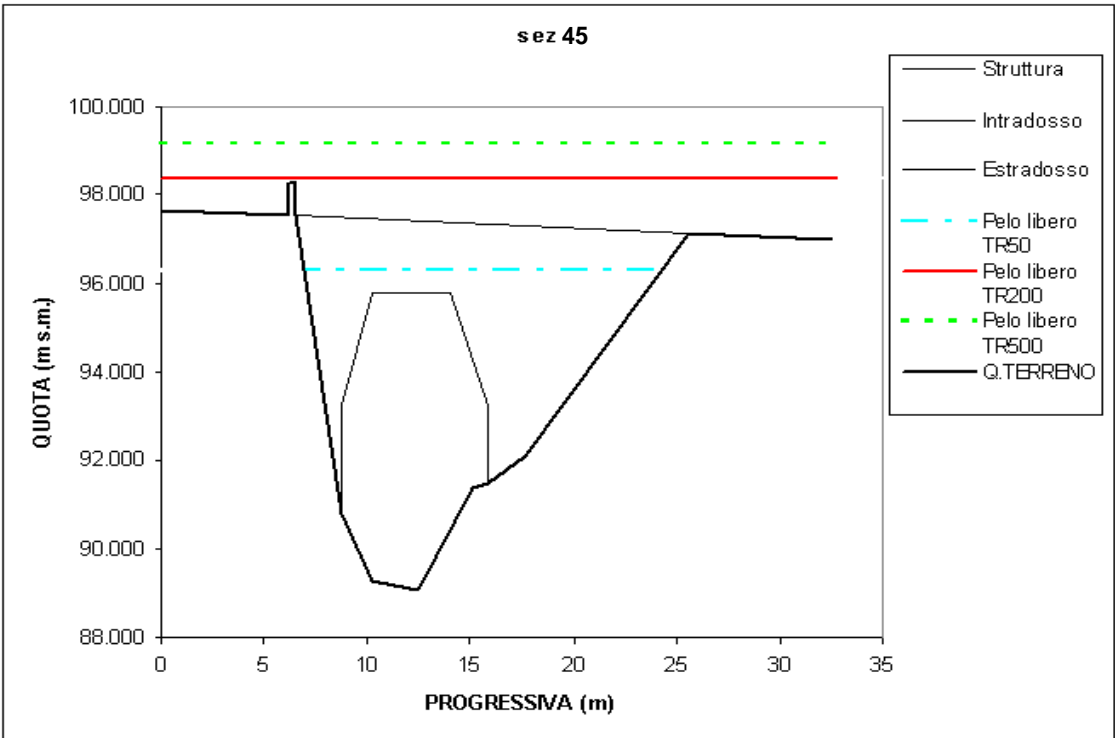
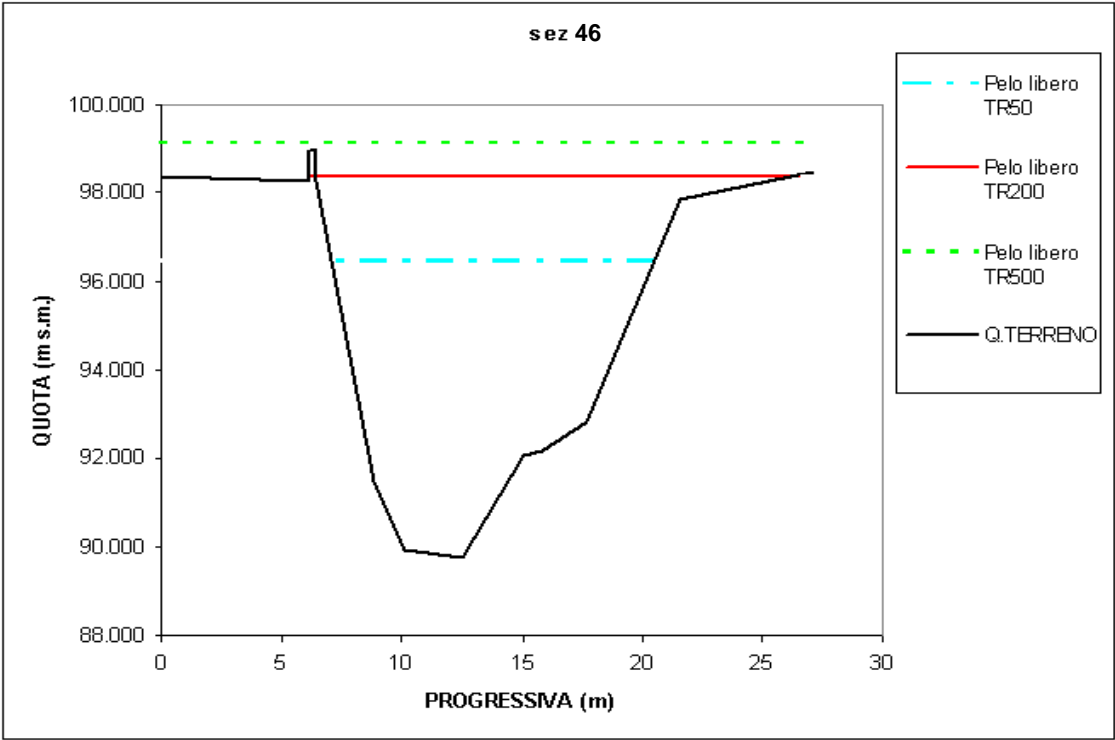
**GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI**

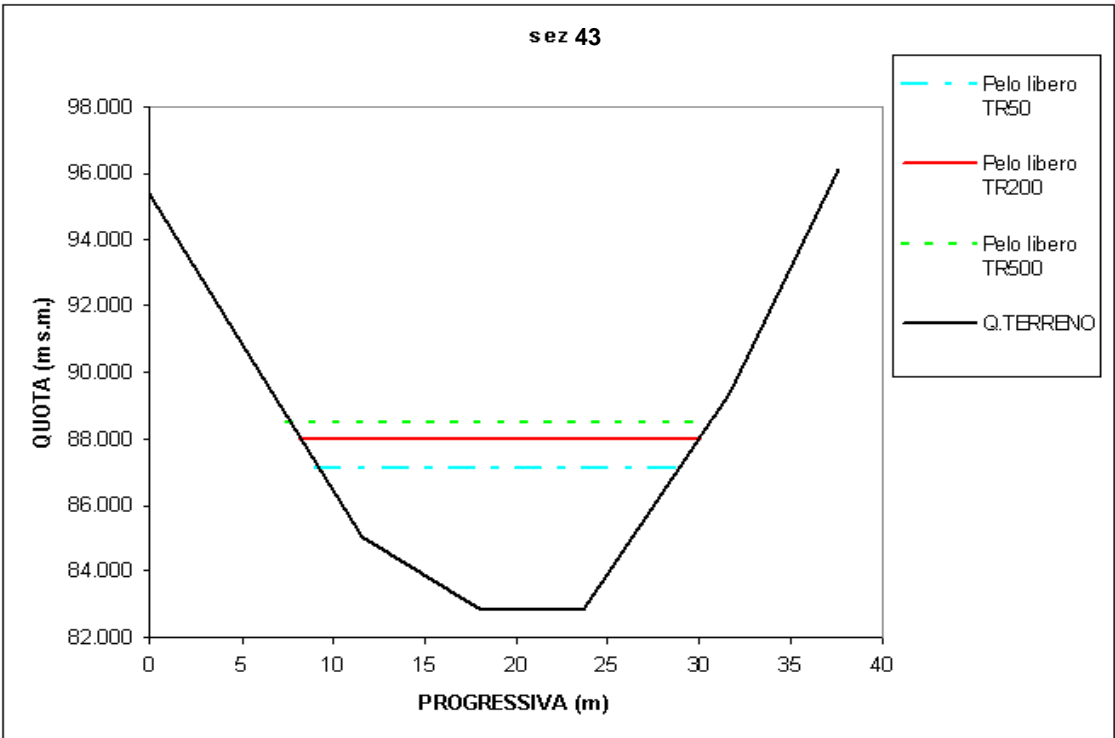
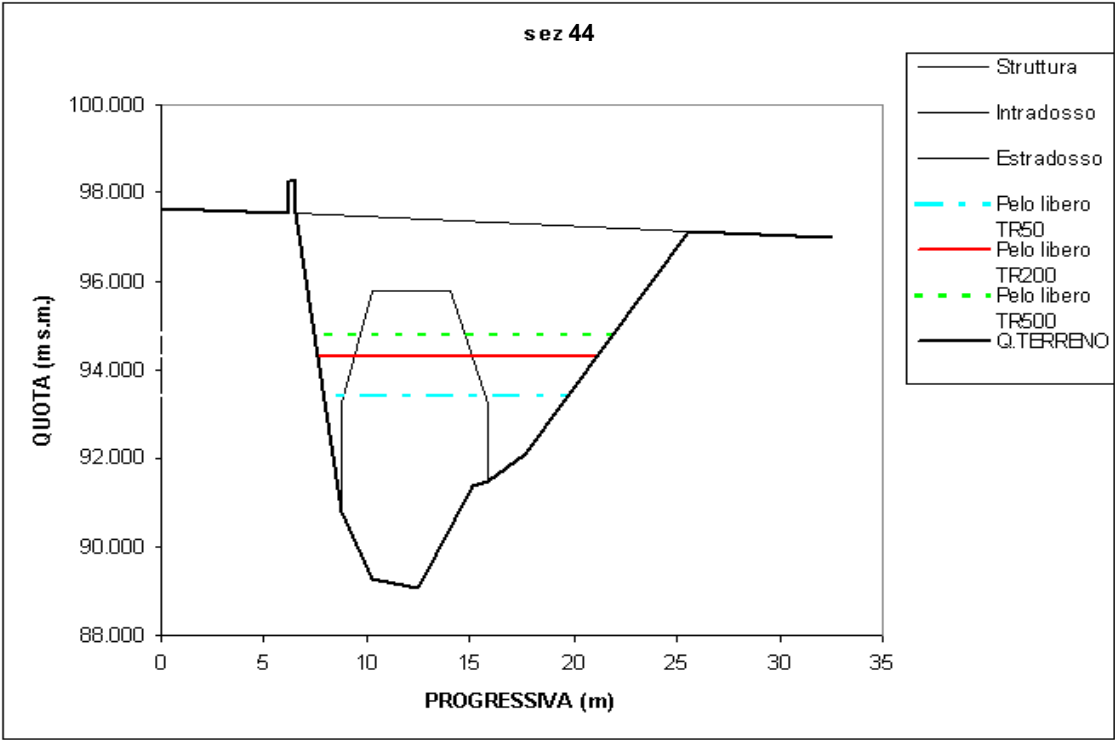
RIO TECCI - T.QUAZZOLA

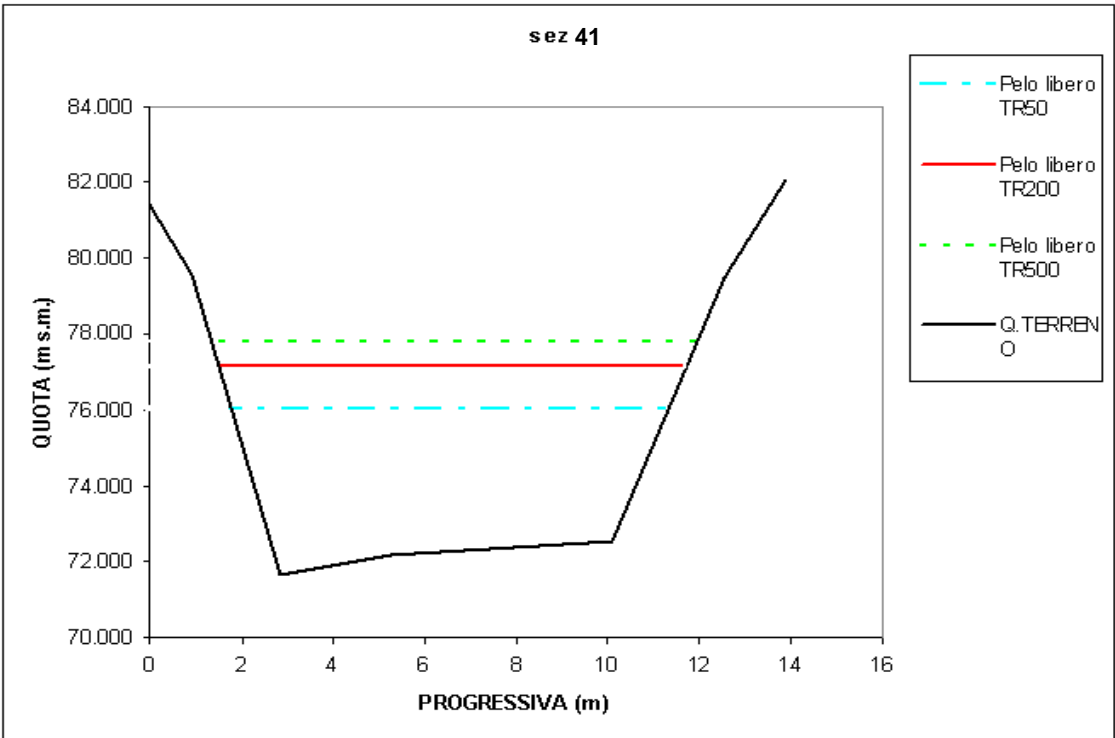
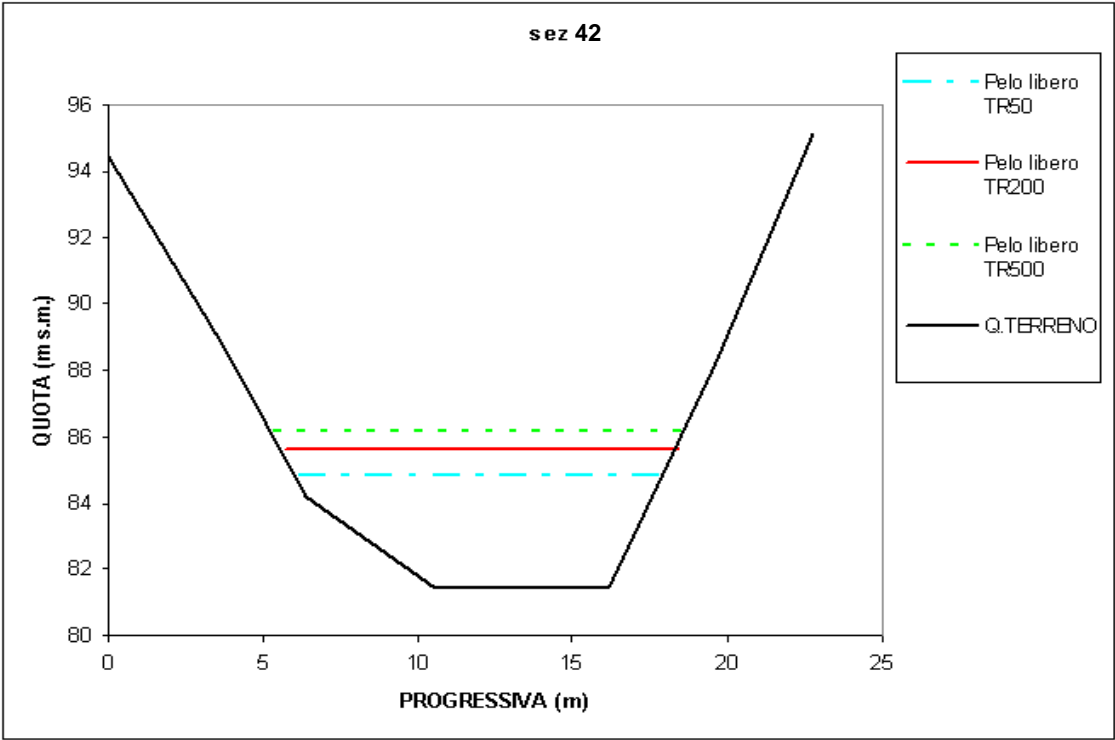
dalla sez.	1m
alla sez.	18

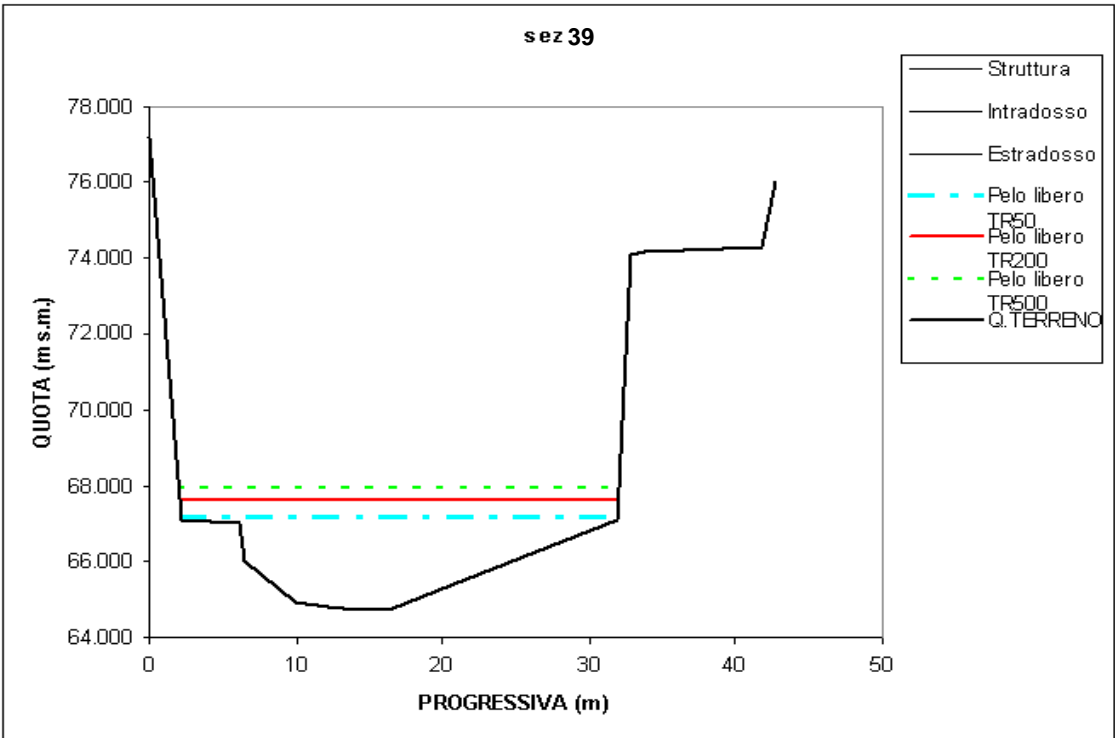
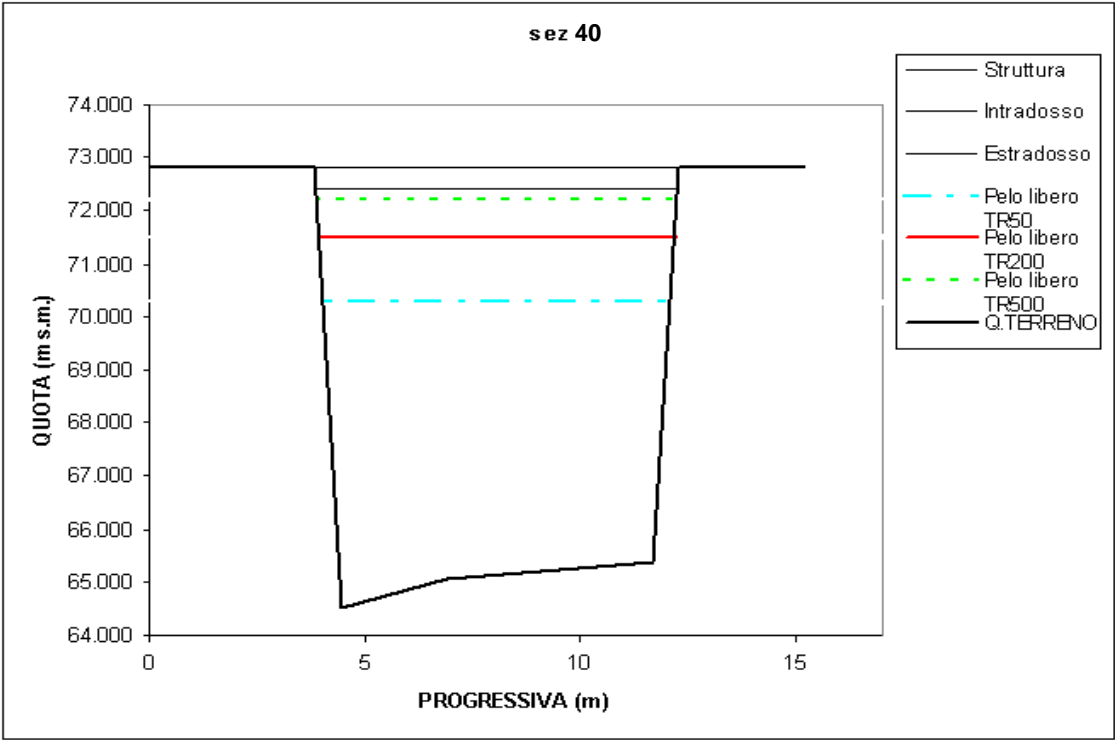


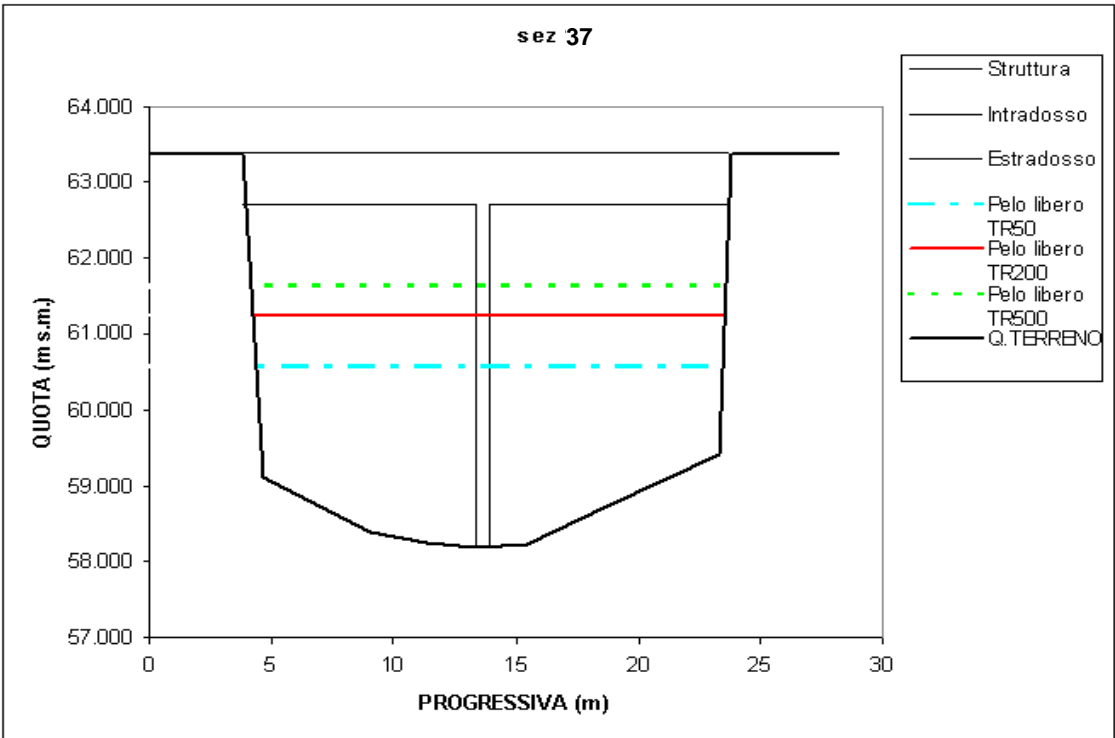
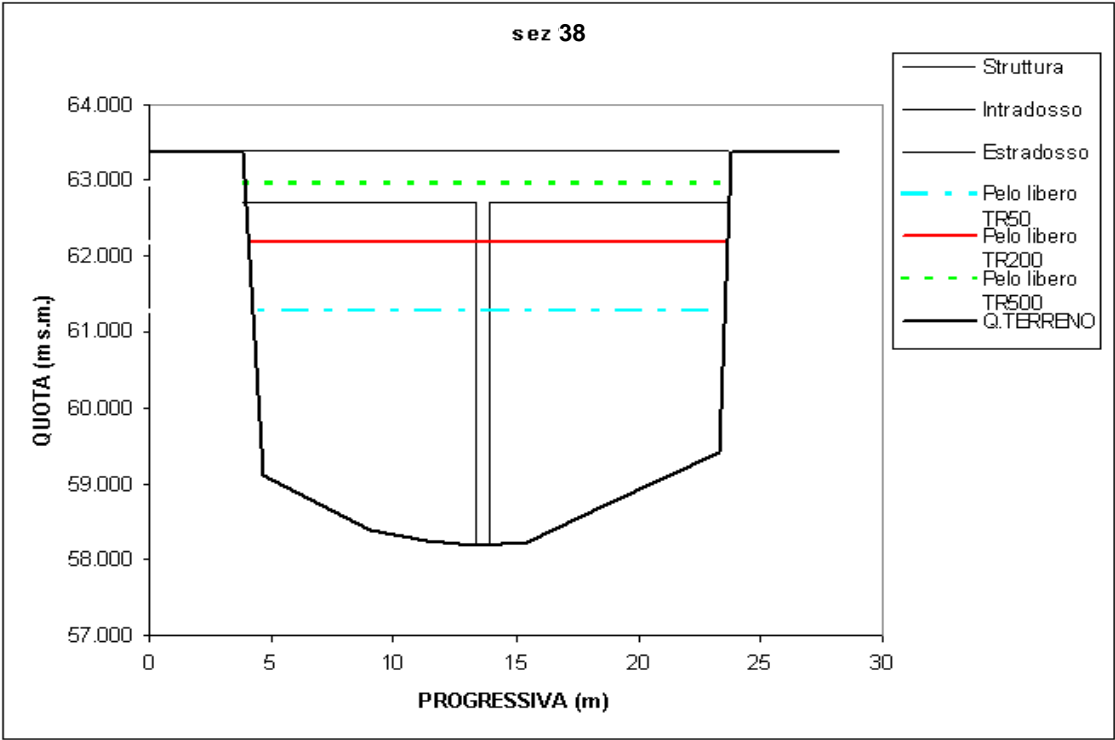


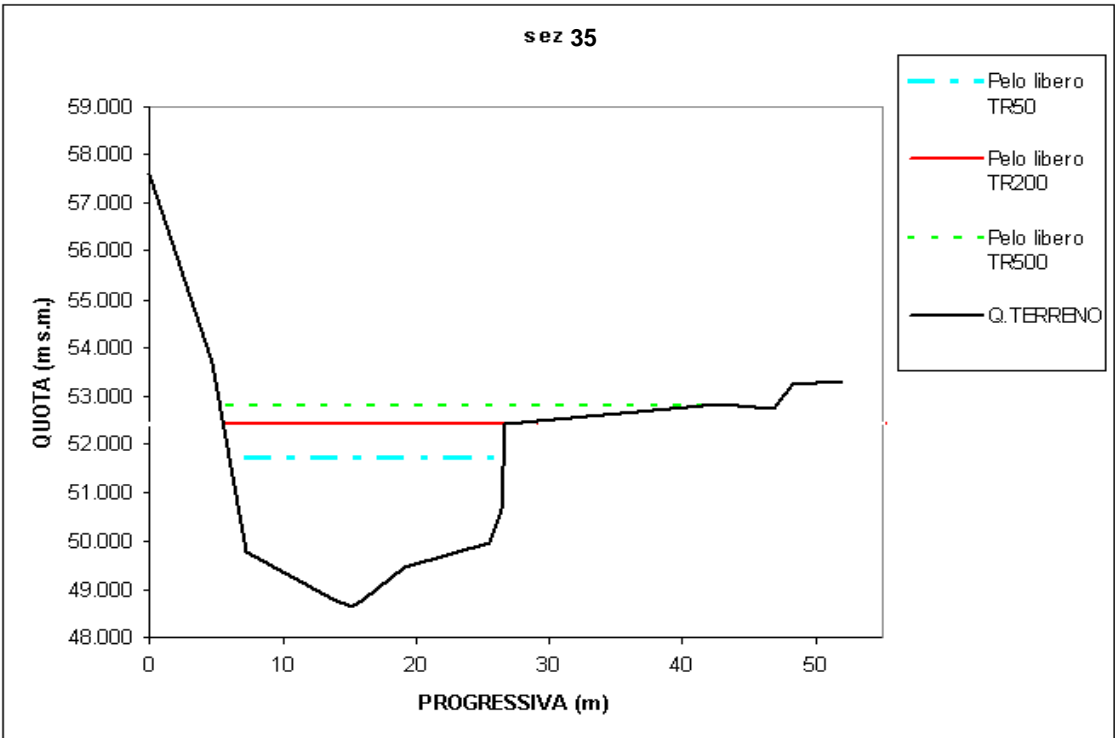
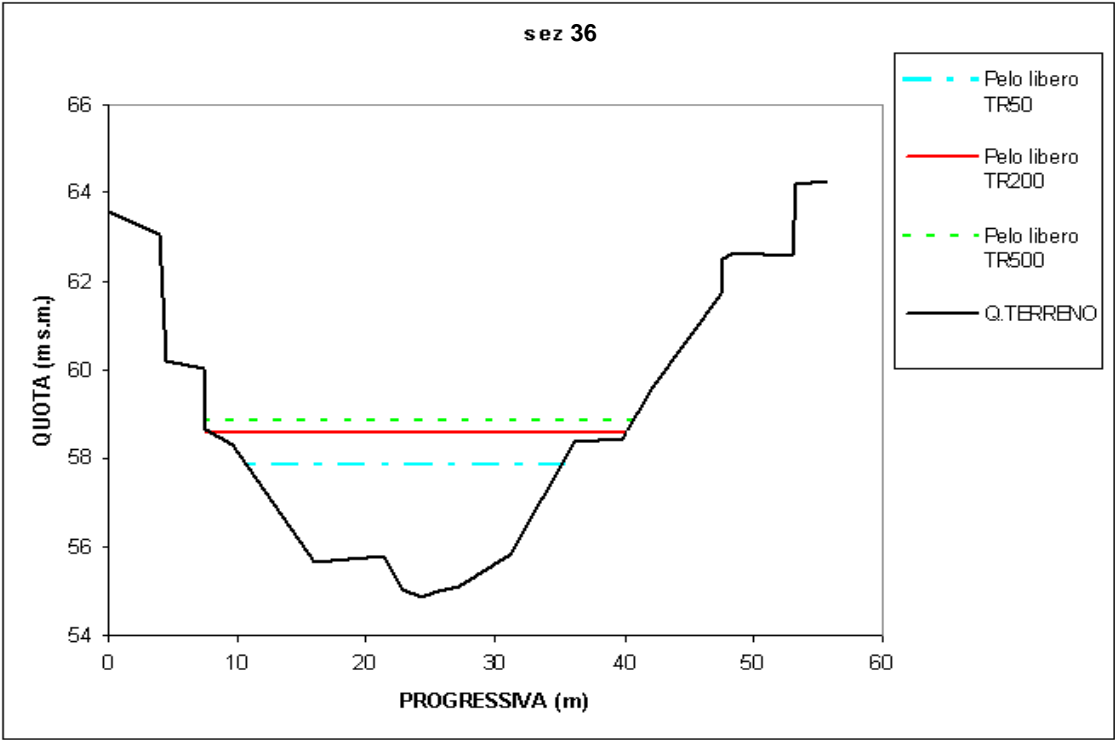


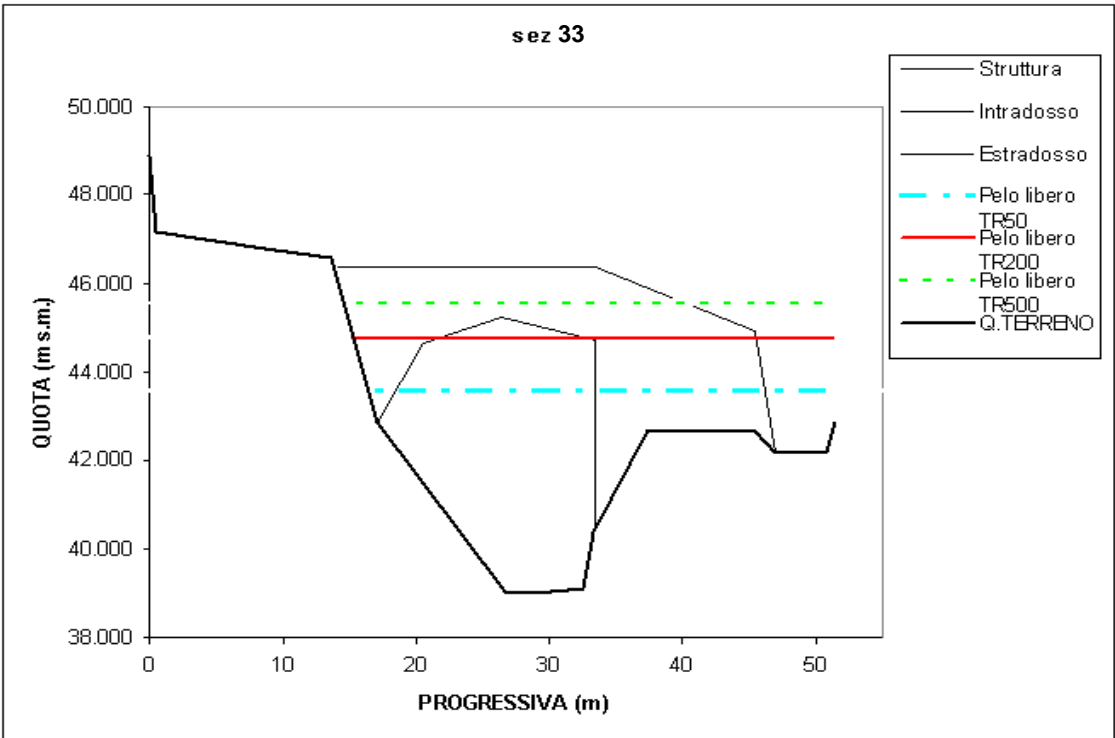
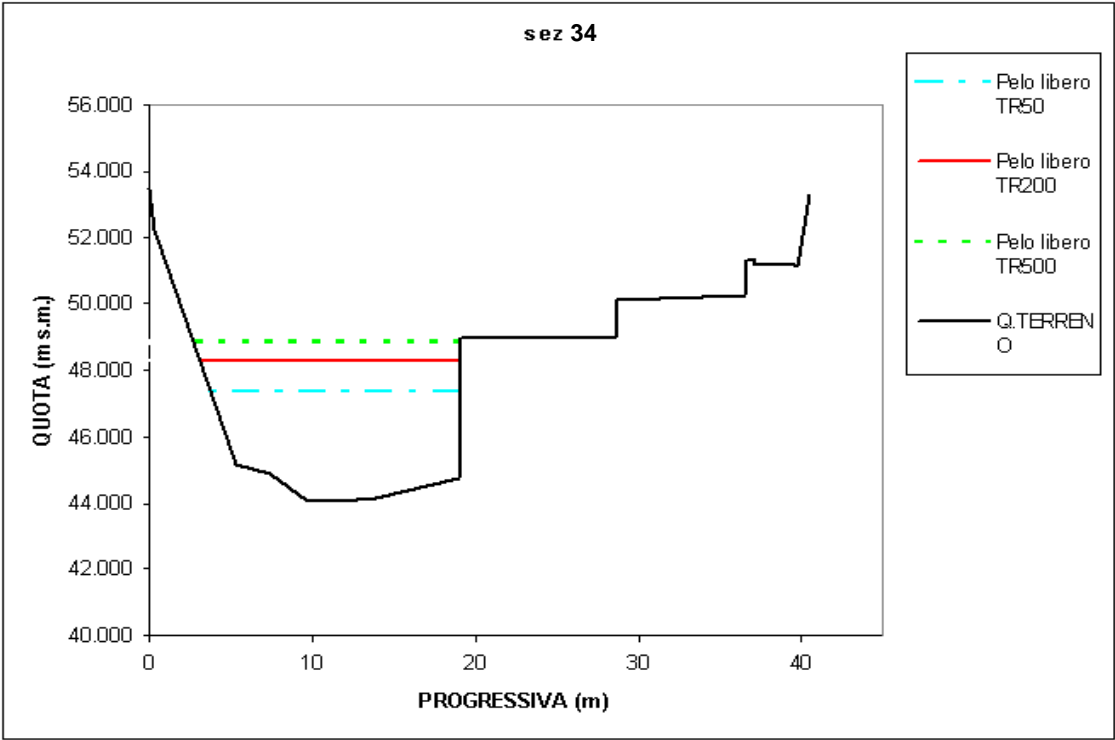


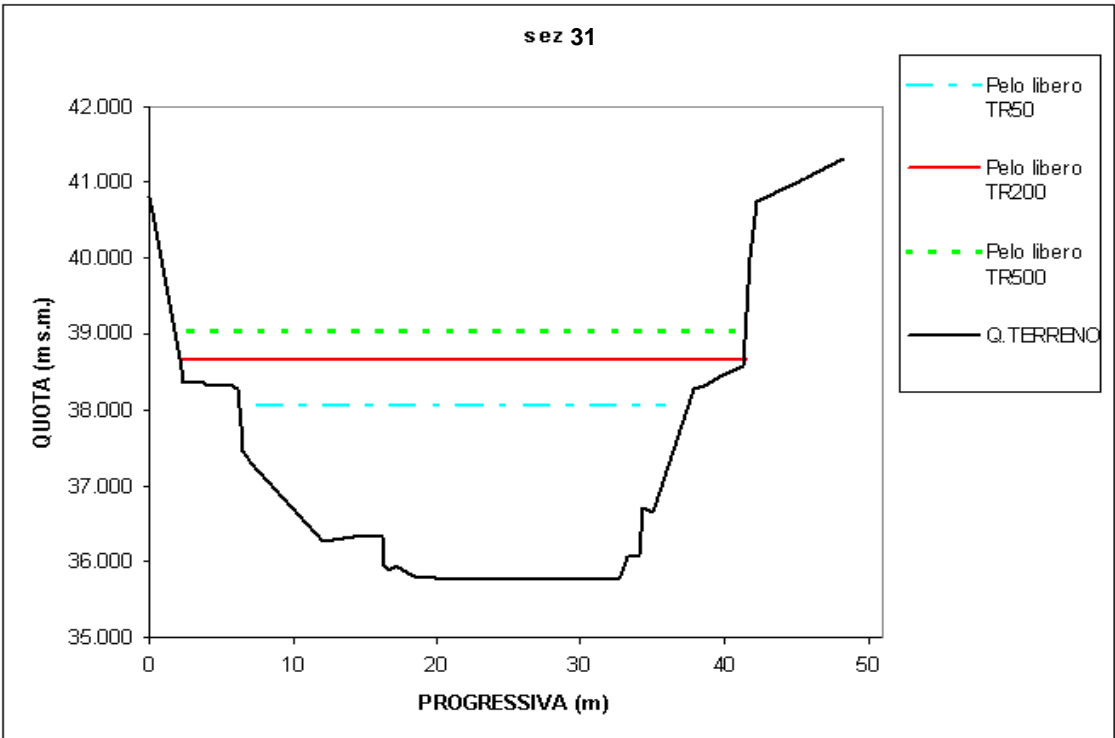
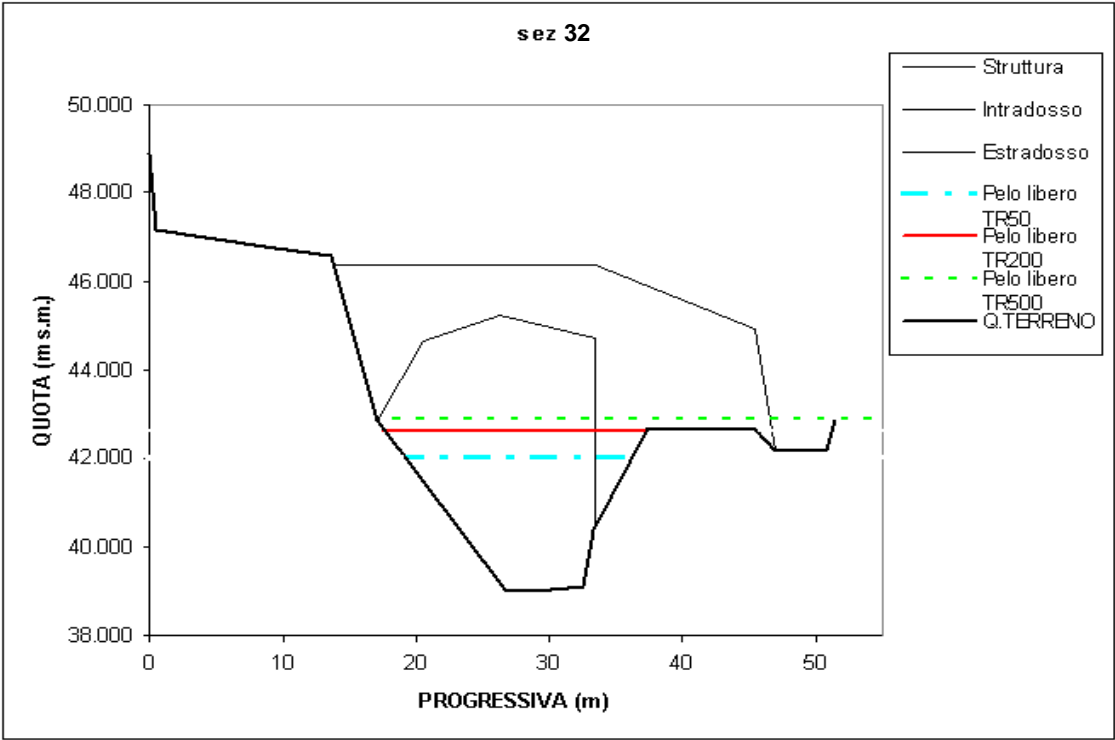


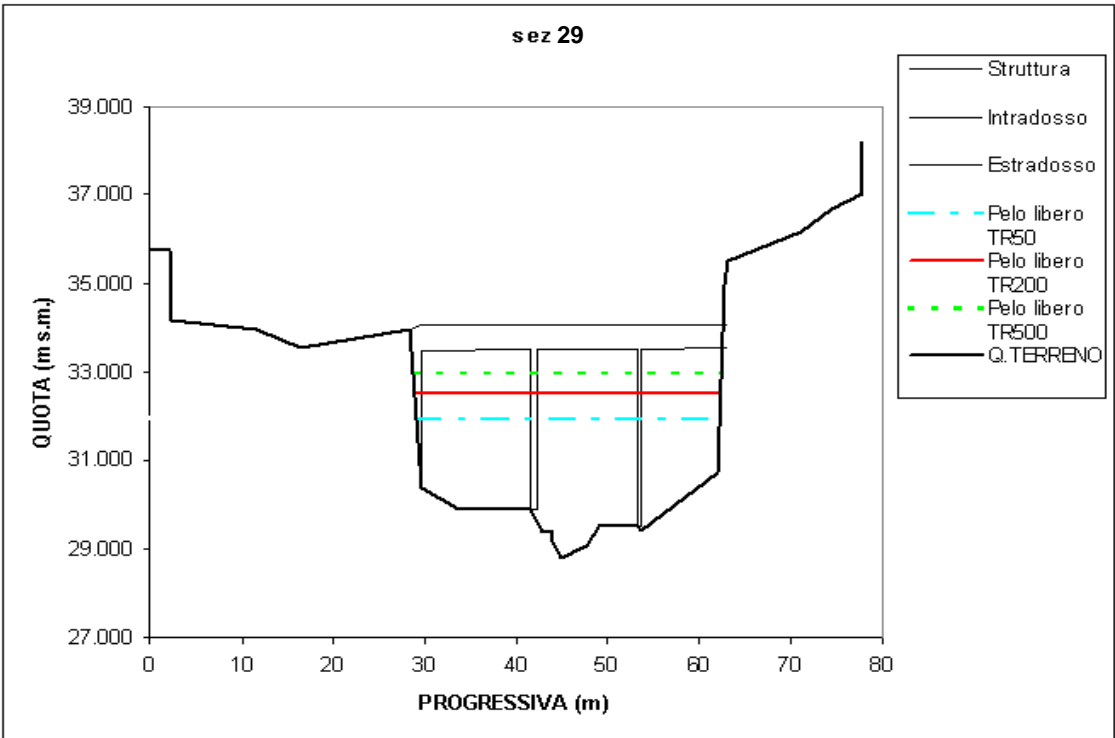
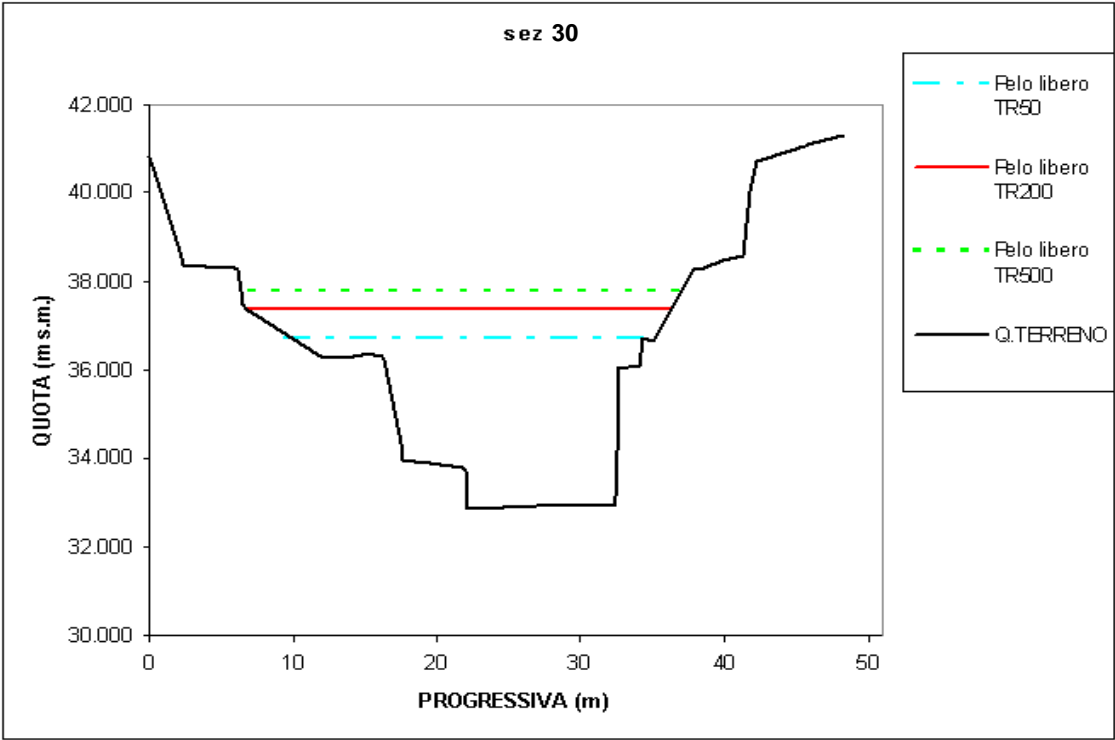


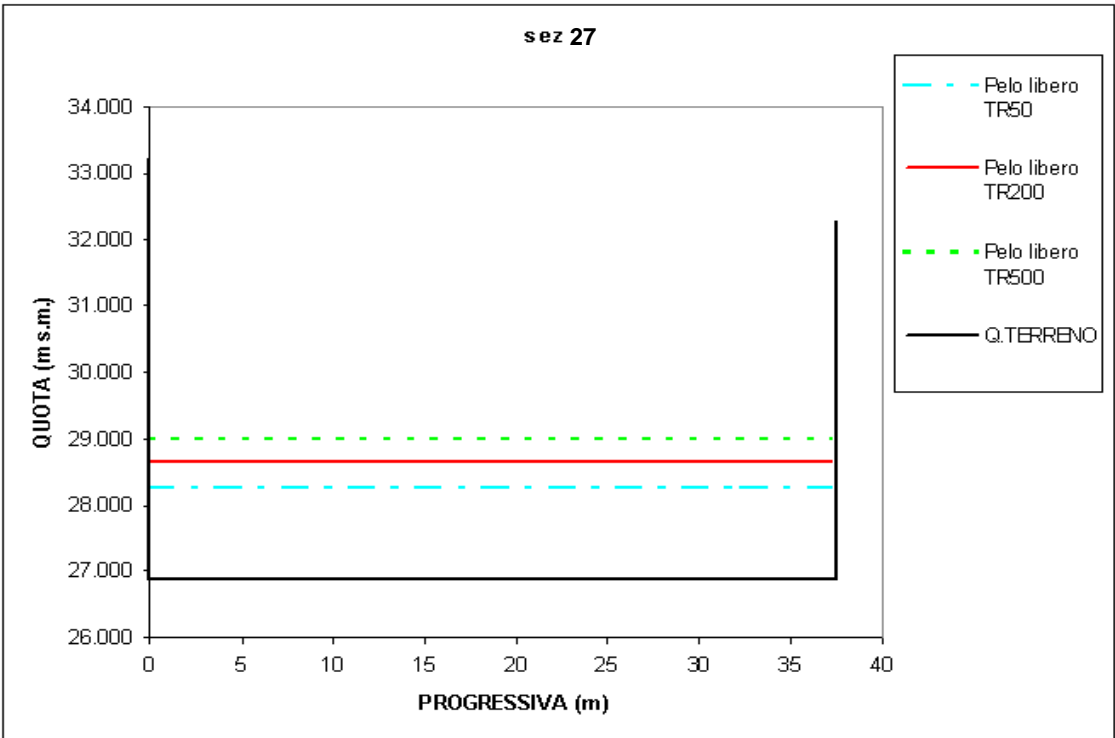
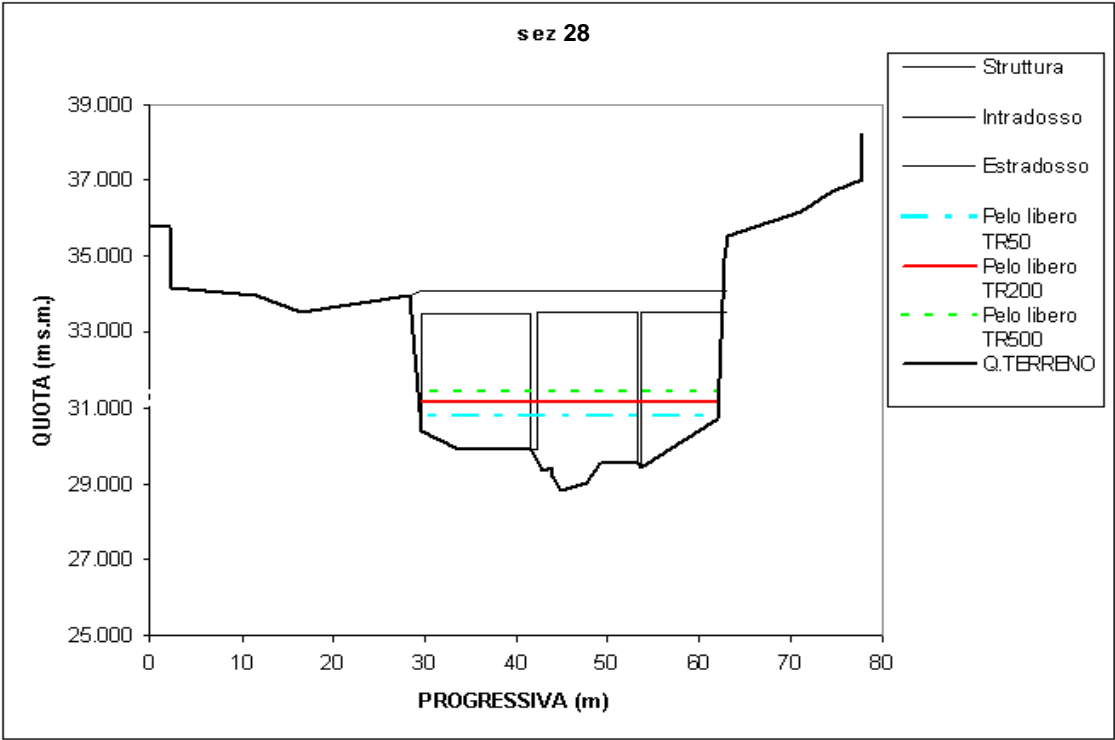












**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

RIO TECCI - T.QUAZZOLA

TORRENTE QUAZZOLA – PROFILO DI CORRENTE PER T=50 ANNI							
ID Sez.	Progr. (m)	Quota fondo (m s.m.)	P.L. (m s.m.)	A (m ²)	b (m)	v (m/s)	Fr (-)
50	0.00	118.60	123.39	50.43	15.04	2.06	0.36
49	20.00	118.39	121.07	22.70	11.29	4.58	1.03
48	126.30	117.25	119.20	13.90	9.94	6.48	2.02
47	429.00	92.10	98.86	56.34	13.31	2.62	0.41
46	723.70	89.75	96.46	57.39	13.41	3.31	0.51
45	771.70	89.06	96.31	71.72	17.30	2.65	0.42
44	791.70	88.58	93.42	35.61	12.70	5.34	1.02
43	1027.10	82.86	87.10	57.96	19.68	3.28	0.61
42	1330.60	81.41	84.81	30.62	11.85	6.20	1.23
41	1562.70	71.67	76.02	31.95	9.55	5.95	1.04
40	1733.20	64.52	70.28	39.88	8.06	4.76	0.68
39	1891.90	64.73	67.17	41.12	28.04	4.62	1.22
38	2080.60	58.19	61.29	50.72	19.38	3.75	0.74
37	2100.60	57.80	60.57	44.47	19.27	4.27	0.90
36	2250.70	54.86	57.85	46.72	24.39	4.07	0.94
35	2582.50	48.62	51.70	45.82	20.50	4.15	0.89
34	2836.10	44.02	47.36	42.23	15.24	4.50	0.86
33	3052.40	38.99	43.58	79.25	35.04	2.40	0.51
32	3072.40	38.64	42.02	40.33	23.22	4.71	1.14
31	3237.10	35.76	38.07	57.72	31.34	3.29	0.77
30	3241.10	32.87	36.71	57.47	25.06	3.31	0.70
29	3656.30	28.80	31.94	71.04	33.19	2.67	0.58
28	3676.30	28.45	30.80	45.10	32.71	4.21	1.15
27	3759.40	26.88	28.25	51.38	37.50	3.70	1.01

Torrente Quazzola - Risultati delle simulazioni idrauliche – T = 50 anni

TORRENTE QUAZZOLA – PROFILO DI CORRENTE PER T=200 ANNI							
ID Sez.	Progr. (m)	Quota fondo (m s.m.)	P.L. (m s.m.)	A (m ²)	b (m)	v (m/s)	Fr (-)
50	0.00	118.60	124.84	74.72	22.06	2.09	0.36
49	20.00	118.39	121.66	29.69	12.34	5.26	1.08
48	126.30	117.25	119.67	21.40	10.71	7.29	1.65
47	429.00	92.10	100.40	78.23	15.04	2.80	0.39
46	723.70	89.75	98.36	86.55	22.80	3.24	0.53
45	771.70	89.06	98.36	123.65	32.22	2.26	0.37
44	791.70	88.58	94.30	47.50	14.38	5.89	1.03
43	1027.10	82.86	87.97	76.05	21.73	3.68	0.63
42	1330.60	81.41	85.63	41.12	12.78	6.81	1.21
41	1562.70	71.67	77.12	42.85	10.22	6.54	1.02
40	1733.20	64.52	71.48	49.66	8.24	5.64	0.73
39	1891.90	64.73	67.63	54.87	29.94	5.10	1.20
38	2080.60	58.19	62.20	68.51	19.69	4.09	0.70
37	2100.60	57.80	61.25	57.64	19.50	4.86	0.90
36	2250.70	54.86	58.55	65.51	31.81	4.27	0.95
35	2582.50	48.62	52.40	60.33	22.77	4.64	0.91
34	2836.10	44.02	48.29	56.59	15.93	4.95	0.84
33	3052.40	38.99	44.75	120.90	36.12	2.32	0.40
32	3072.40	38.64	42.59	57.01	34.40	4.91	1.22
31	3237.10	35.76	38.66	78.74	39.32	3.56	0.80
30	3241.10	32.87	37.40	76.50	29.65	3.66	0.73
29	3656.30	28.80	32.53	90.72	33.56	3.09	0.60
28	3676.30	28.45	31.18	57.64	32.94	4.86	1.17
27	3759.40	26.88	28.66	66.75	37.50	4.19	1.00

Torrente Quazzola -Risultati delle simulazioni idrauliche – T = 200 anni

TORRENTE QUAZZOLA – PROFILO DI CORRENTE PER T=500 ANNI							
ID Sez.	Progr. (m)	Quota fondo (m s.m.)	P.L. (m s.m.)	A (m ²)	b (m)	v (m/s)	Fr (-)
50	0.00	118.60	125.43	90.90	30.16	2.09	0.38
49	20.00	118.39	121.99	33.86	12.93	5.61	1.11
48	126.30	117.25	119.94	24.58	11.15	7.73	1.11
47	429.00	92.10	101.00	87.28	15.11	3.05	0.41
46	723.70	89.75	99.14	107.03	26.84	3.18	0.51
45	771.70	89.06	99.16	149.38	32.22	2.28	0.34
44	791.70	88.58	94.80	54.95	15.34	6.19	1.04
43	1027.10	82.86	88.48	87.47	22.93	3.89	0.64
42	1330.60	81.41	86.14	47.57	13.33	7.15	1.21
41	1562.70	71.67	77.78	49.75	10.62	6.83	1.01
40	1733.20	64.52	72.20	55.63	8.36	6.11	0.76
39	1891.90	64.73	67.94	64.08	30.04	5.31	1.16
38	2080.60	58.19	62.95	83.43	19.94	4.08	0.64
37	2100.60	57.80	61.63	65.06	19.63	5.23	0.92
36	2250.70	54.86	58.85	75.35	33.14	4.51	0.95
35	2582.50	48.62	52.81	71.98	36.25	4.72	1.07
34	2836.10	44.02	48.87	66.09	16.45	5.14	0.82
33	3052.40	38.99	45.53	149.29	36.83	2.28	0.36
32	3072.40	38.64	42.88	67.01	34.71	5.07	1.17
31	3237.10	35.76	39.03	93.41	39.84	3.64	0.76
30	3241.10	32.87	37.77	87.55	30.72	3.88	0.73
29	3656.30	28.80	32.95	105.05	33.82	3.24	0.59
28	3676.30	28.45	31.43	65.80	33.10	5.17	1.17
27	3759.40	26.88	28.99	79.13	37.50	4.30	0.95

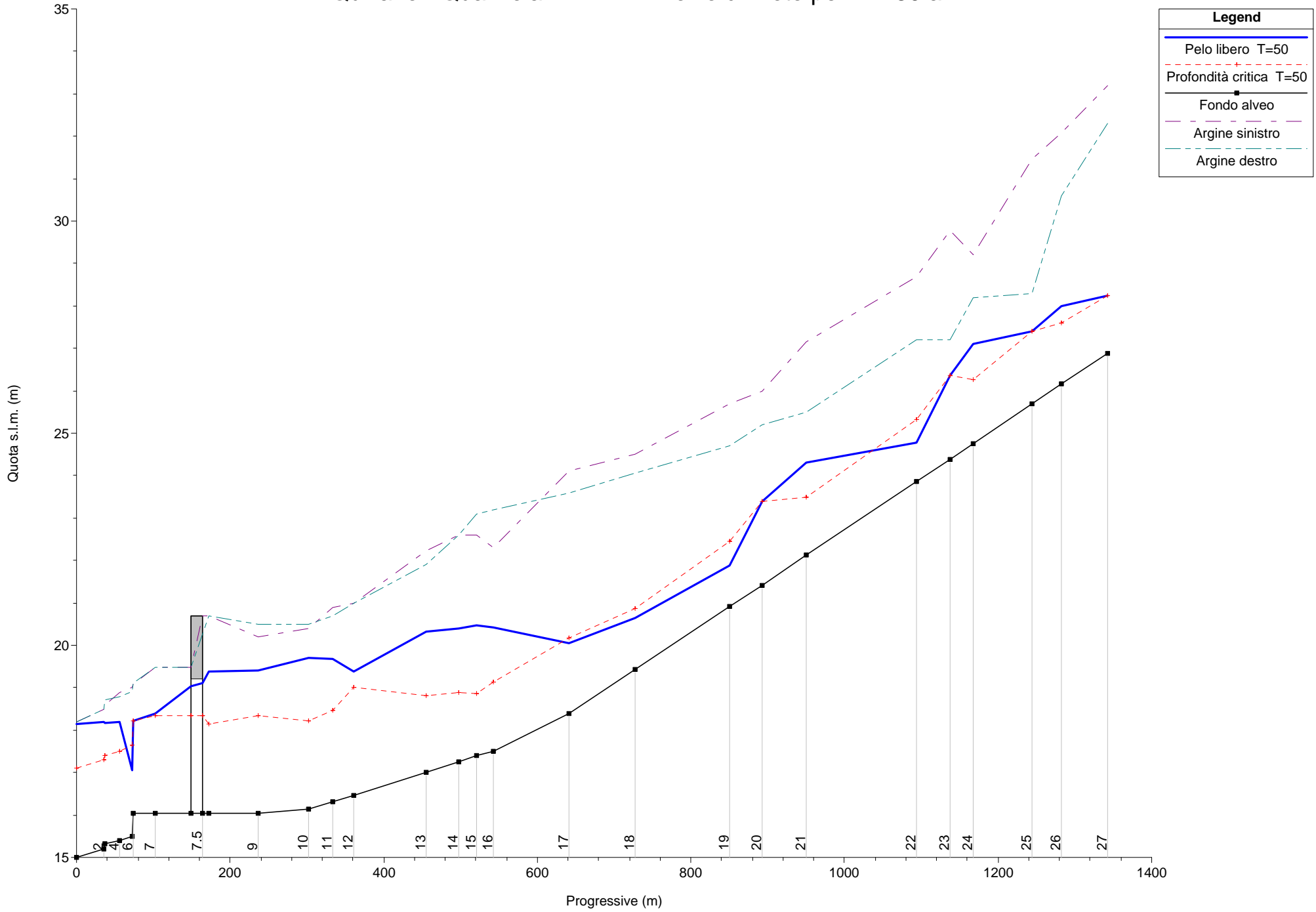
Torrente Quazzola -Risultati delle simulazioni idrauliche – T = 500 anni

**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

QUAZZOLA

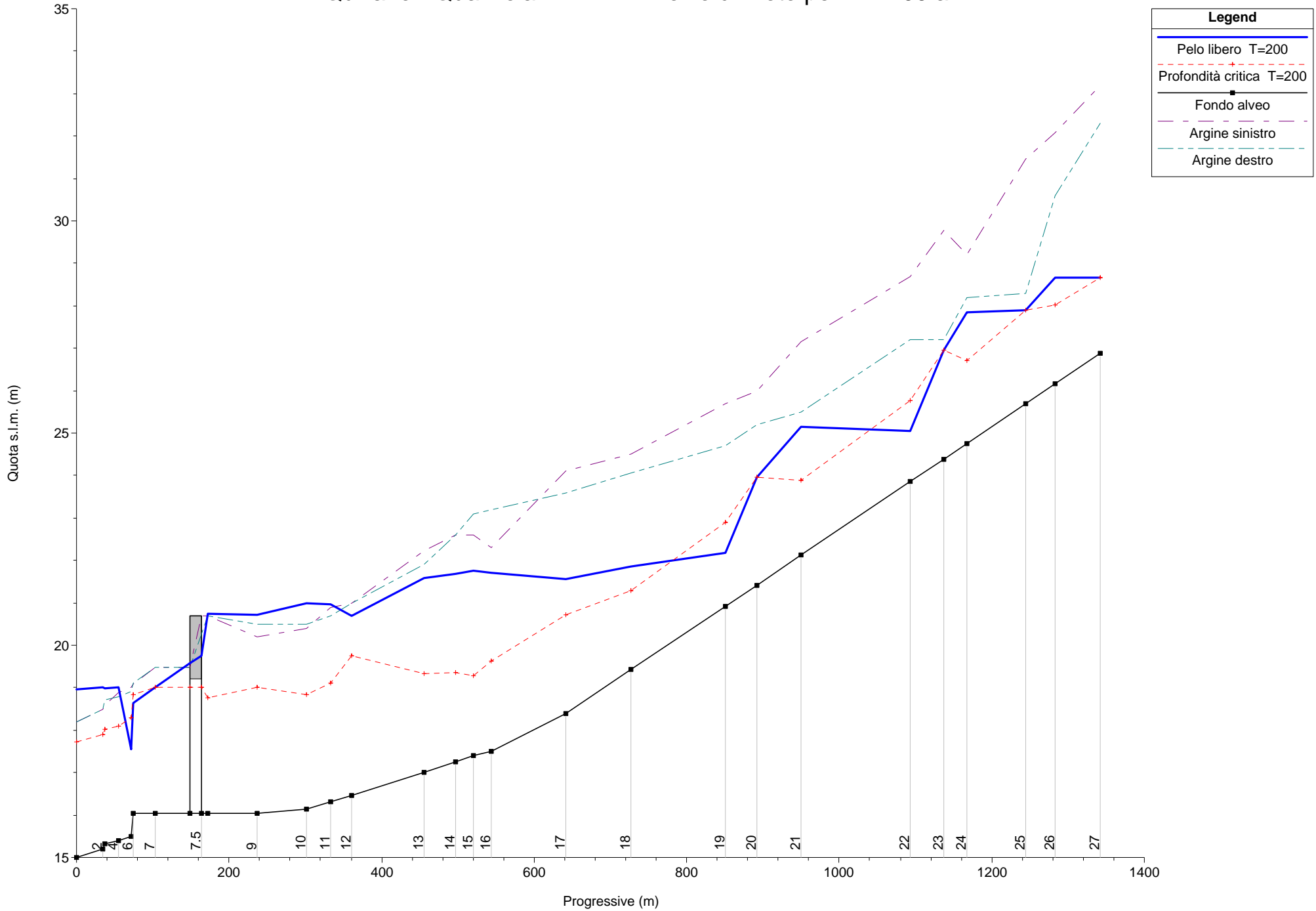
Quiliano - Quazzola

Profilo di moto per T = 50 anni



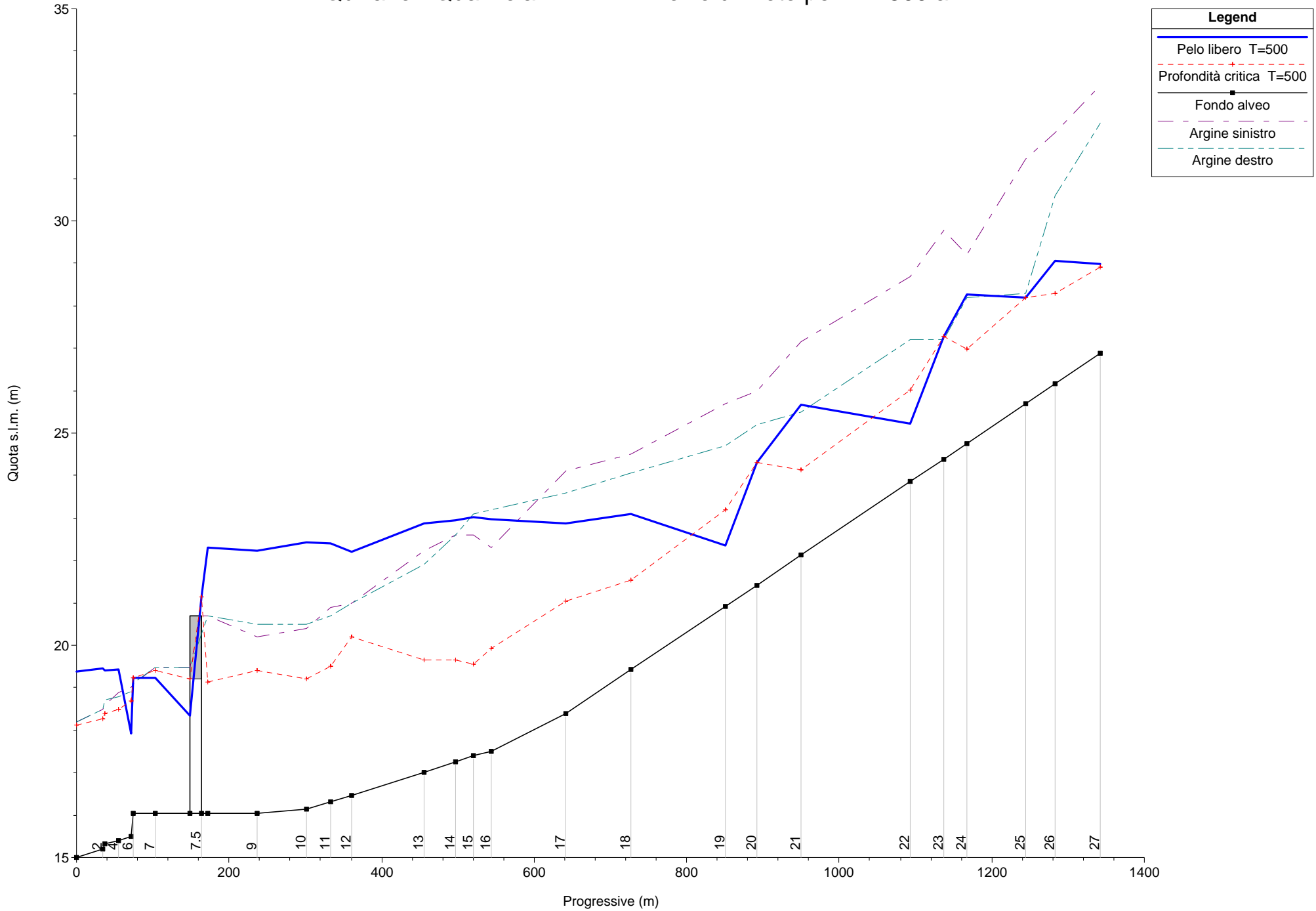
Quiliano - Quazzola

Profilo di moto per T = 200 anni



Quiliano - Quazzola

Profilo di moto per T = 500 anni



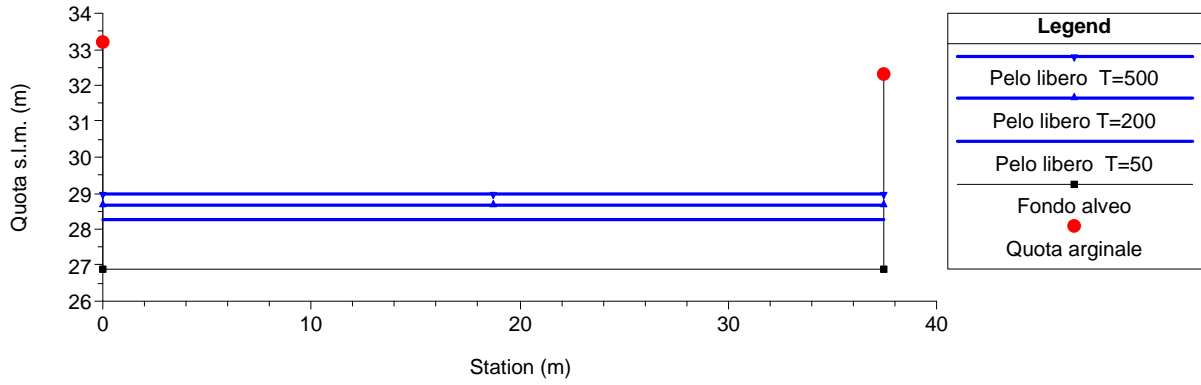
**GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI**

QUAZZOLA

QUAZZOLA

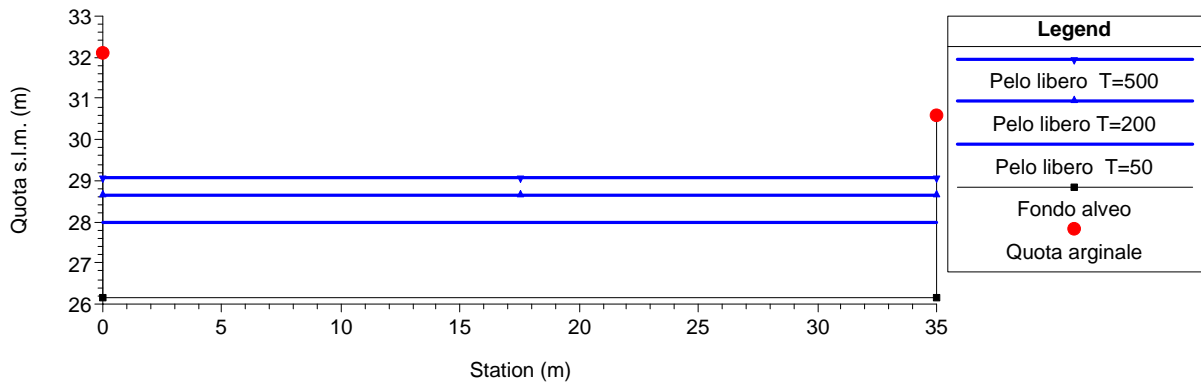
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 27



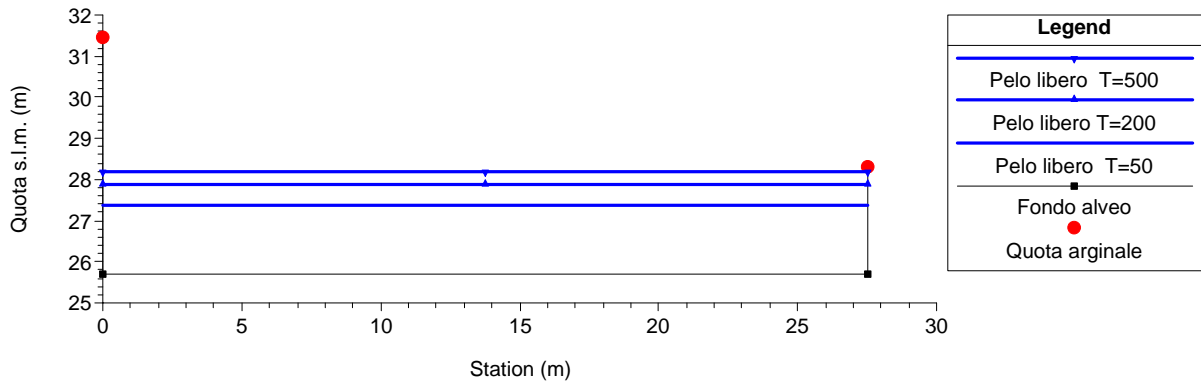
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 26



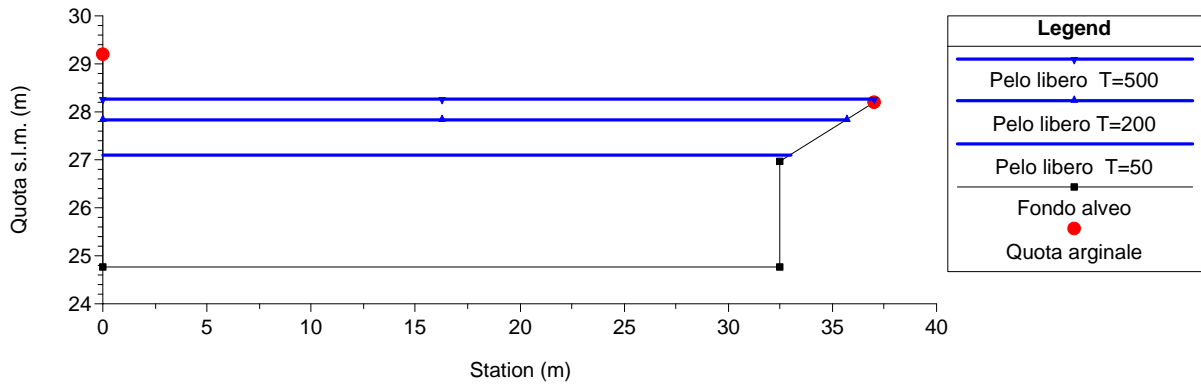
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 25



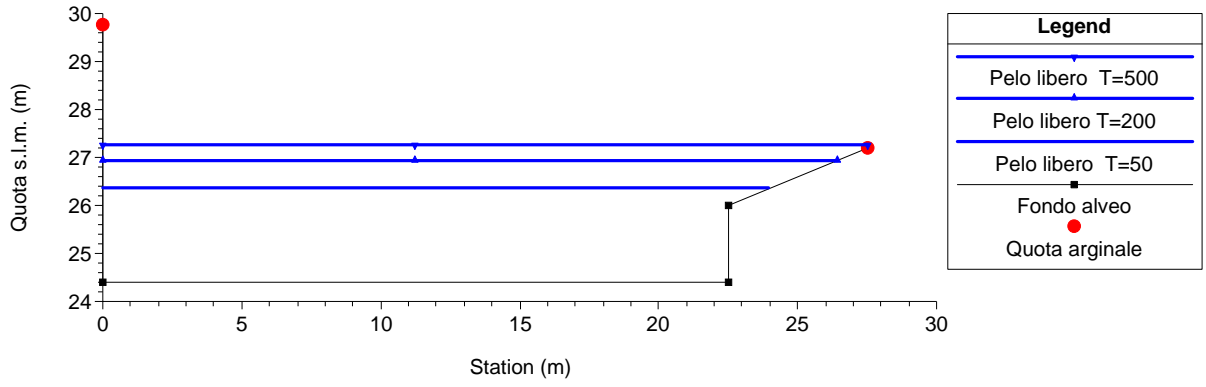
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 24



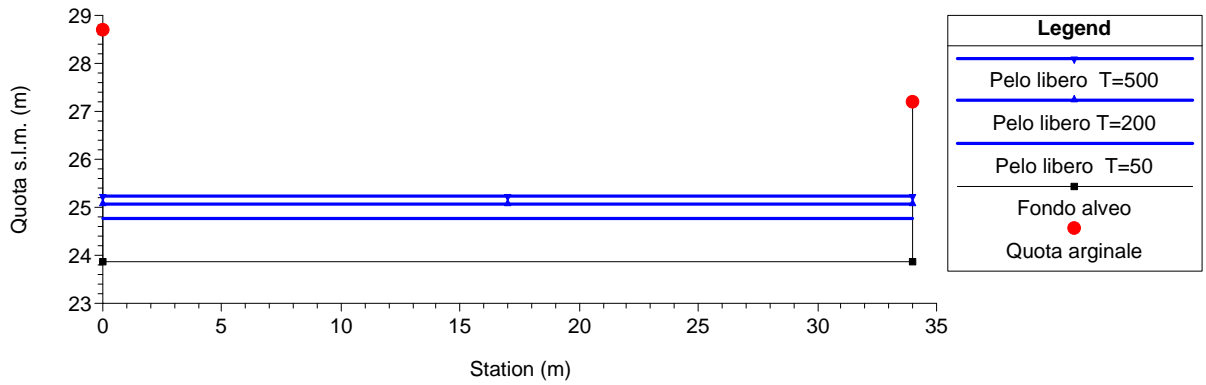
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 23



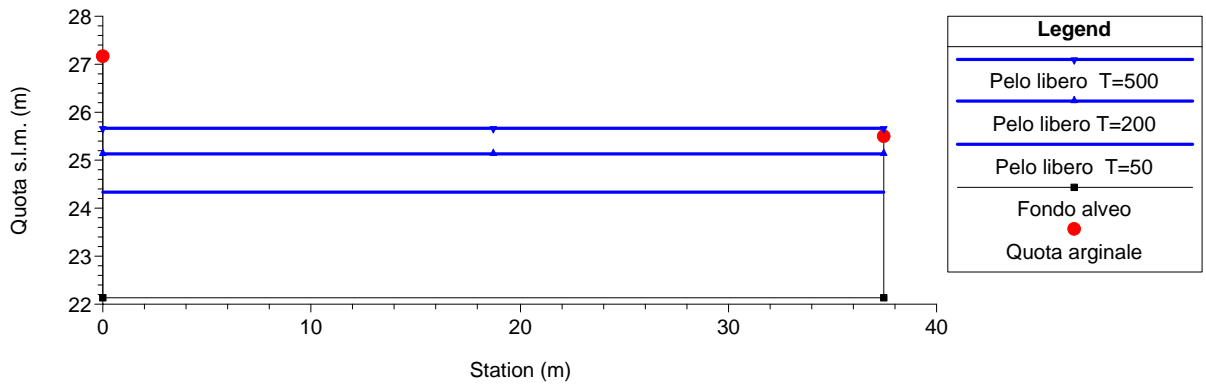
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 22



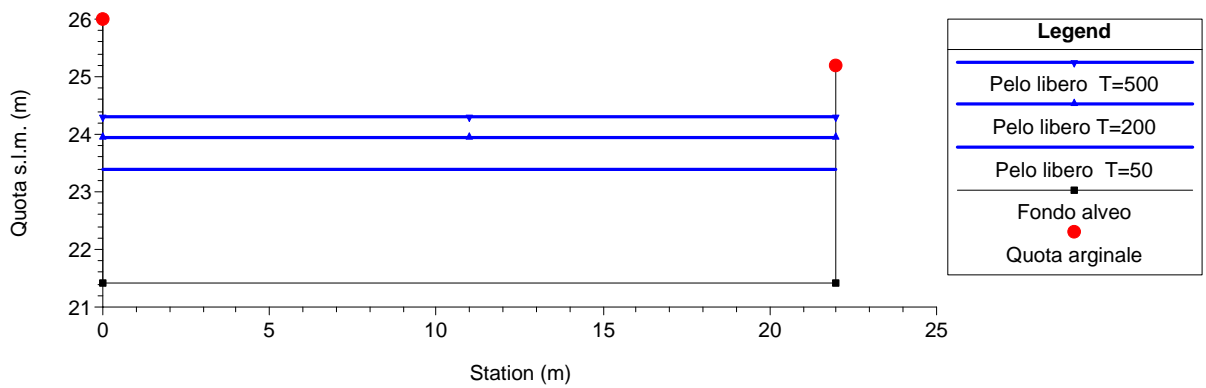
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 21



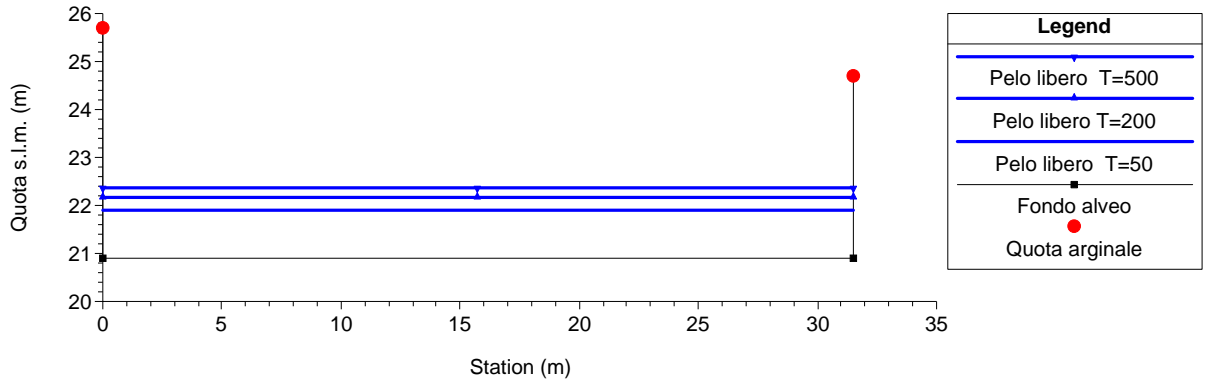
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 20



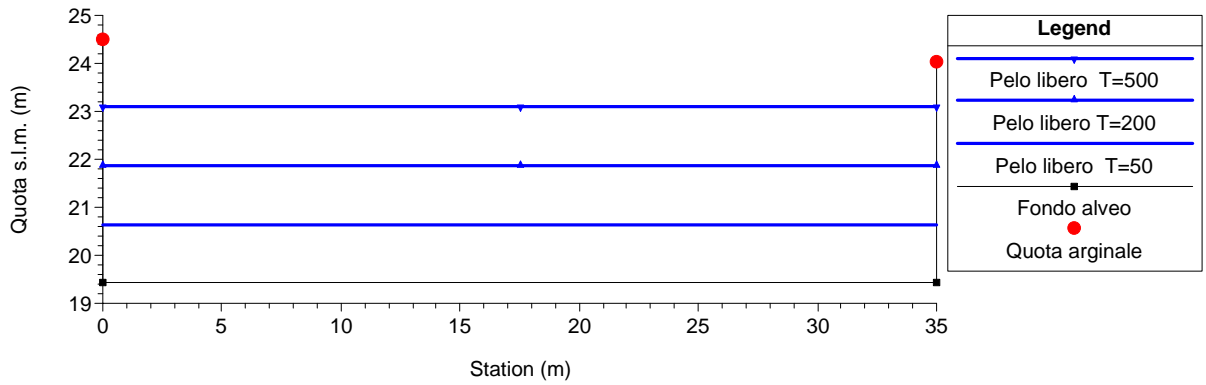
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 19



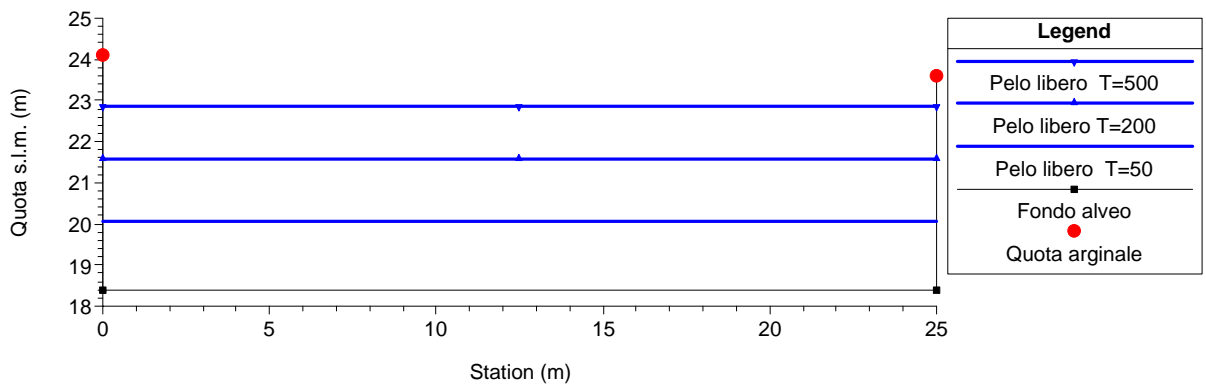
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 18



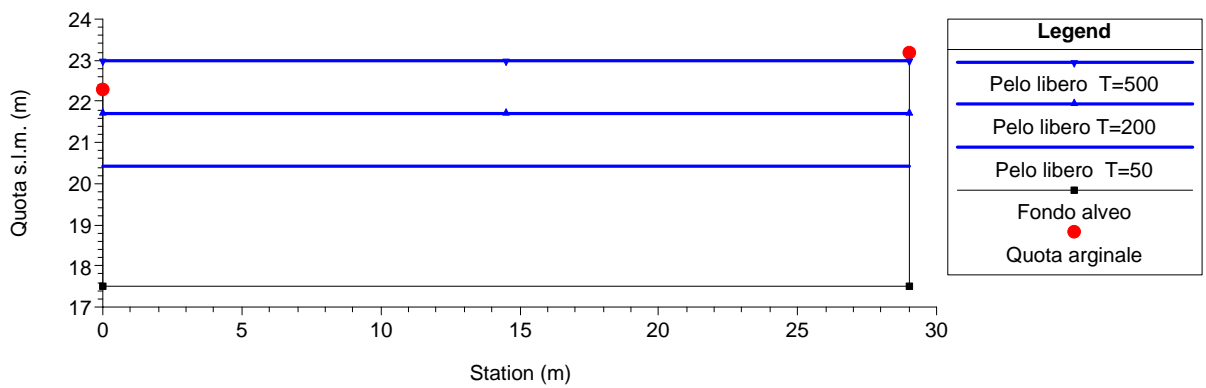
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 17



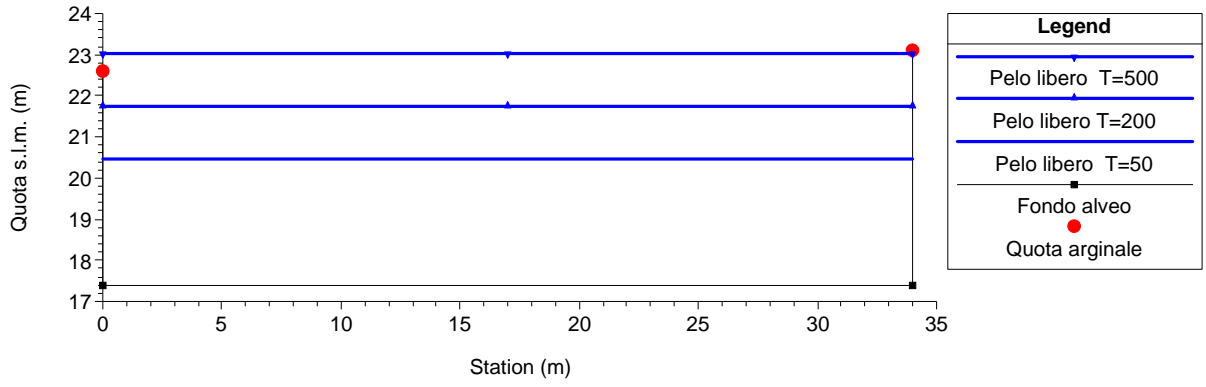
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 16



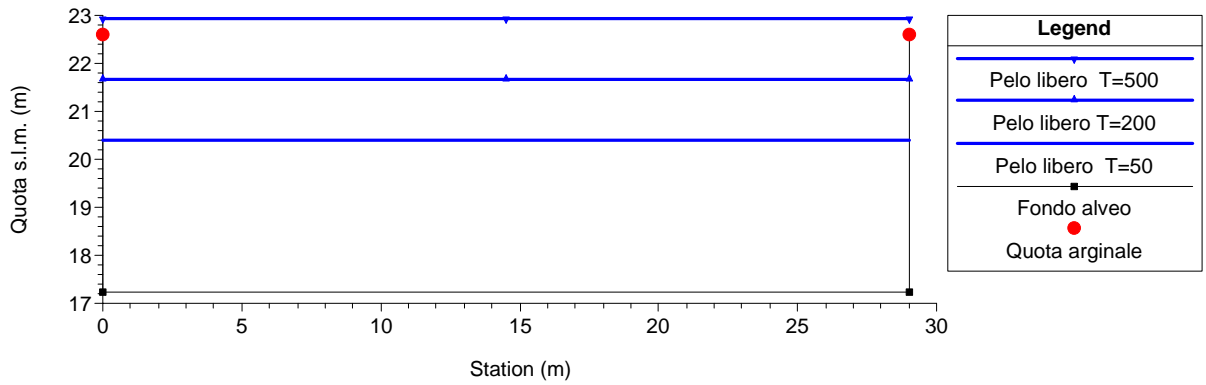
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 15



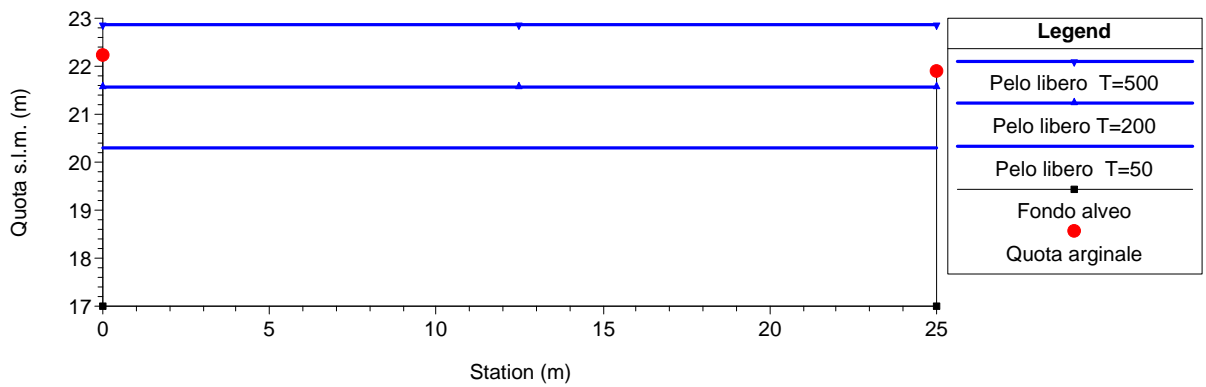
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 14



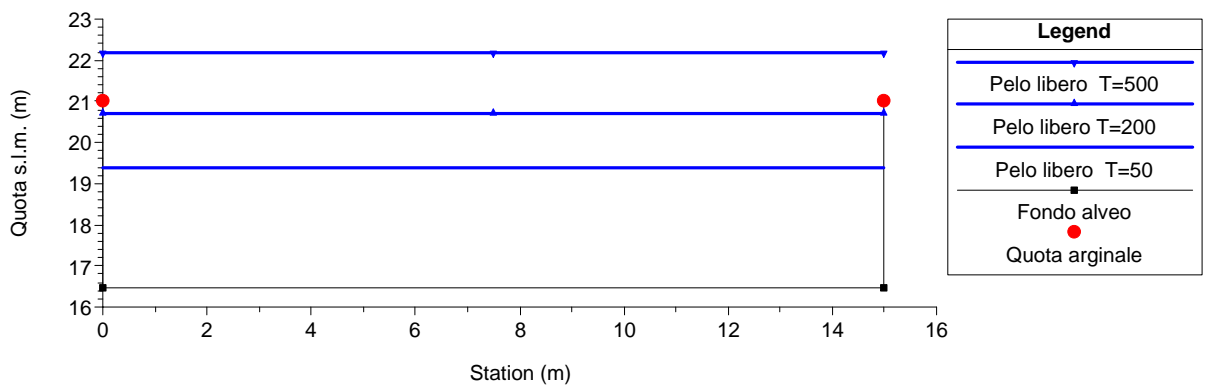
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 13



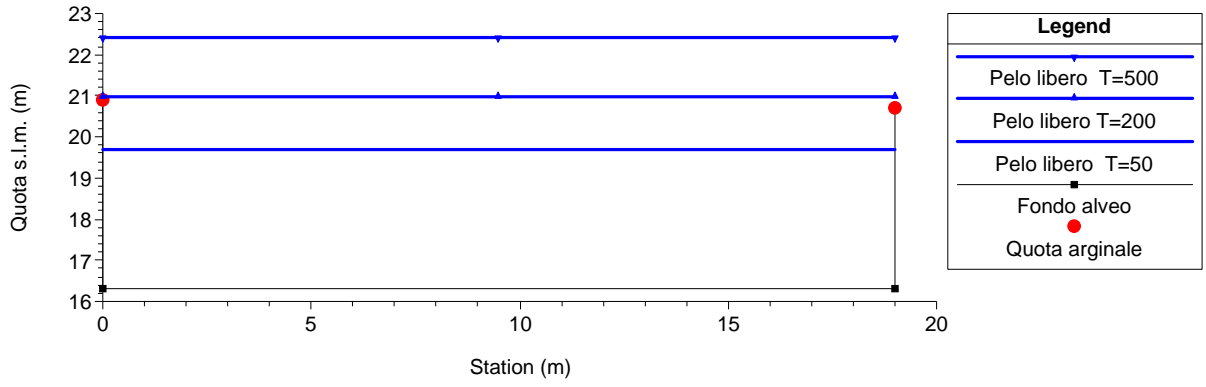
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 12



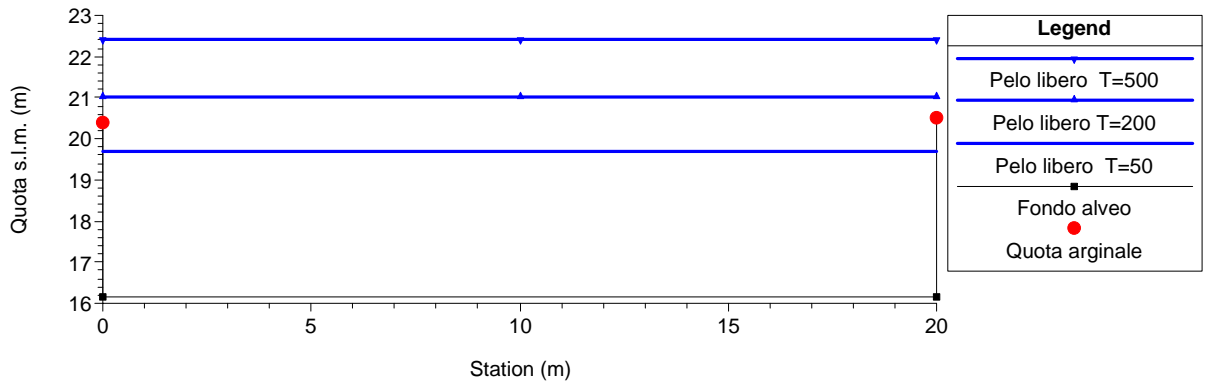
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 11



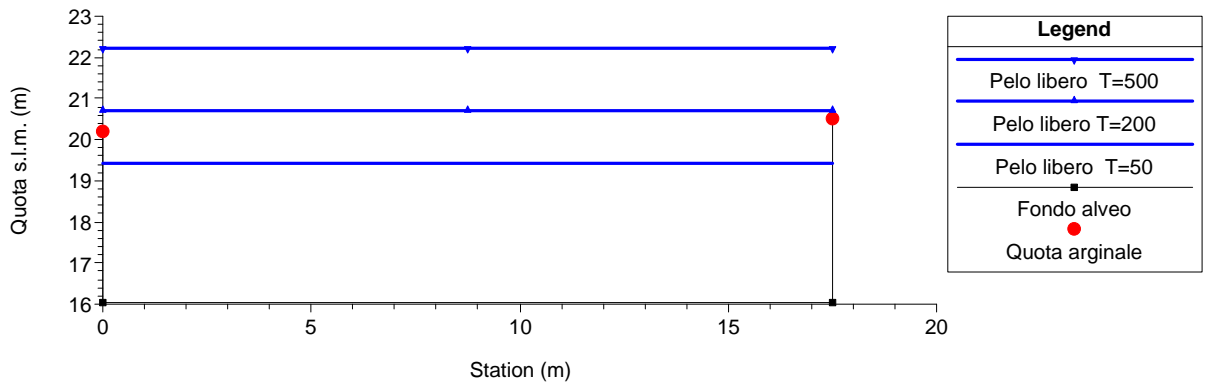
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 10



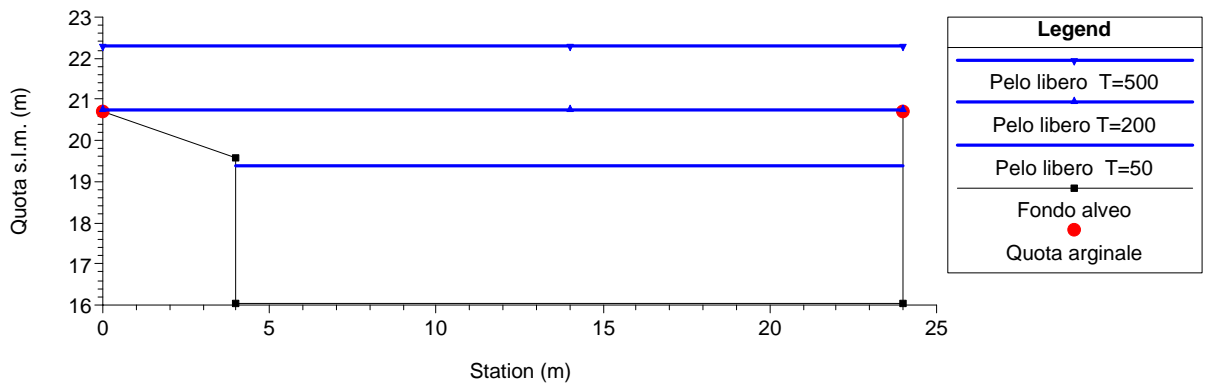
Quiliano-Quazzola

River = Quiliano Reach = Quazzola RS = 9

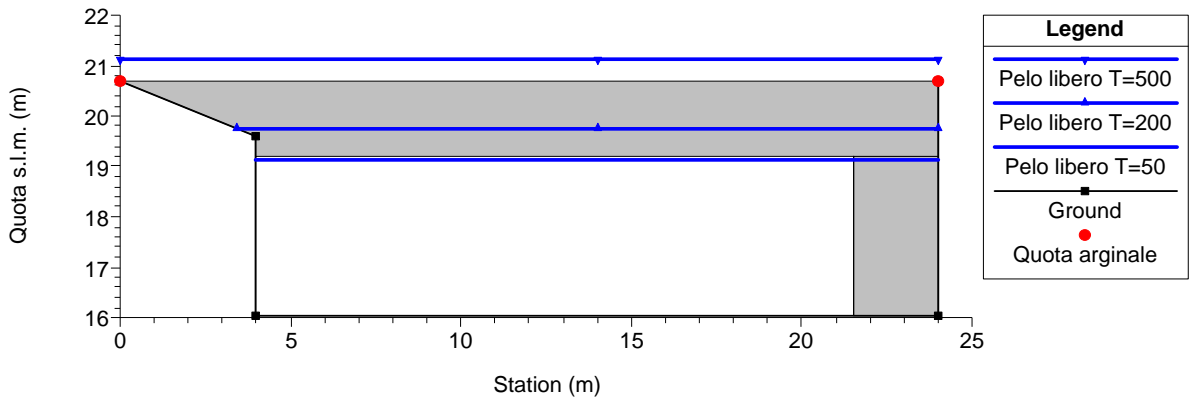


Quiliano-Quazzola

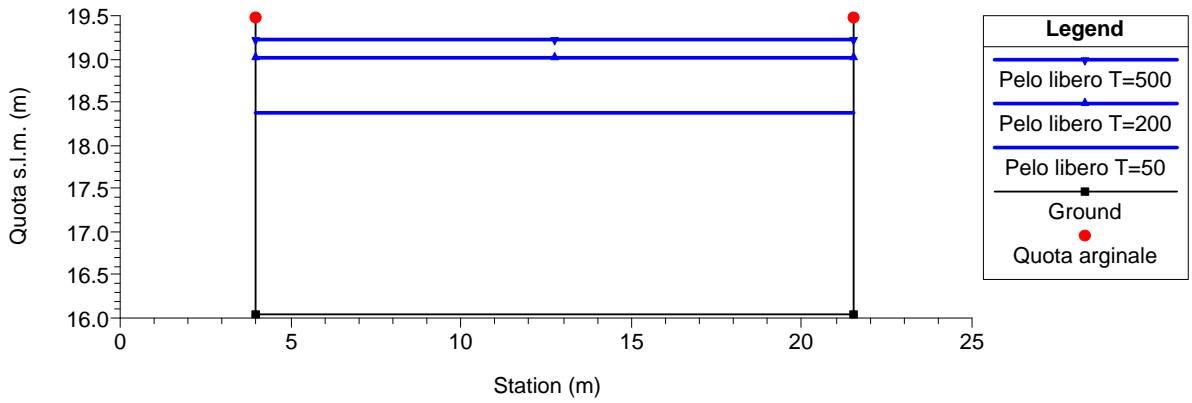
River = Quiliano Reach = Quazzola RS = 8



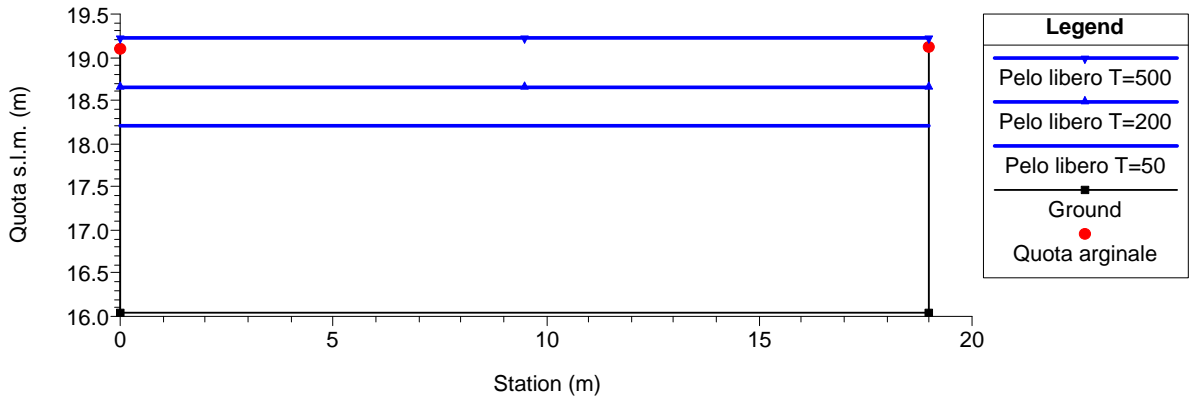
River = Quiliano Reach = Quazzola RS = 7.5 BR



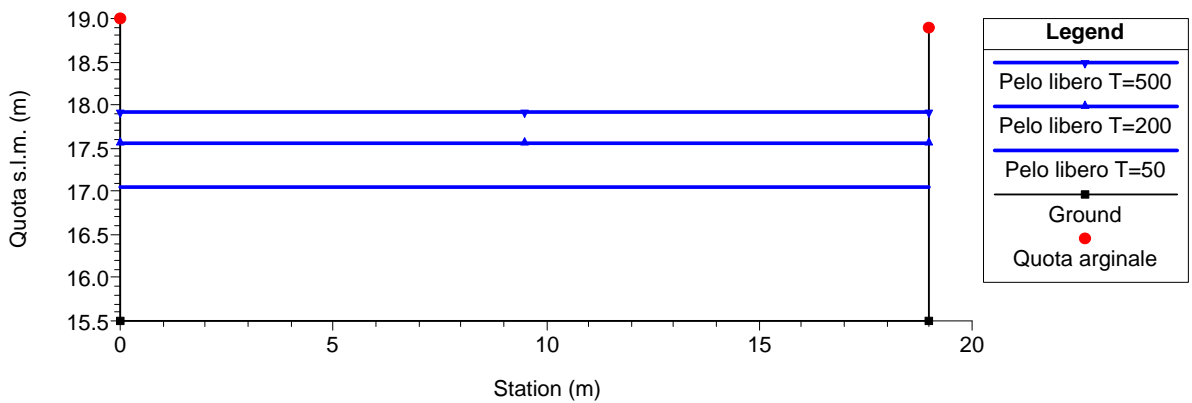
River = Quiliano Reach = Quazzola RS = 7



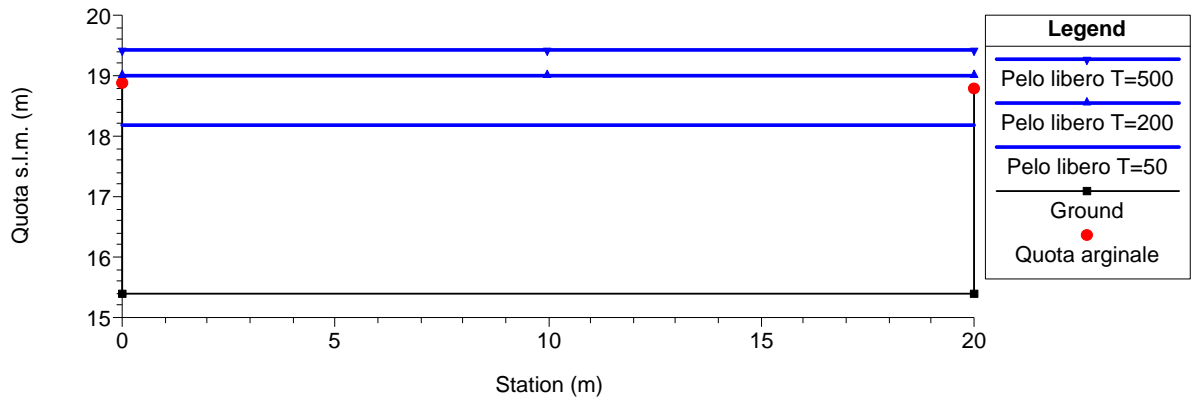
River = Quiliano Reach = Quazzola RS = 6



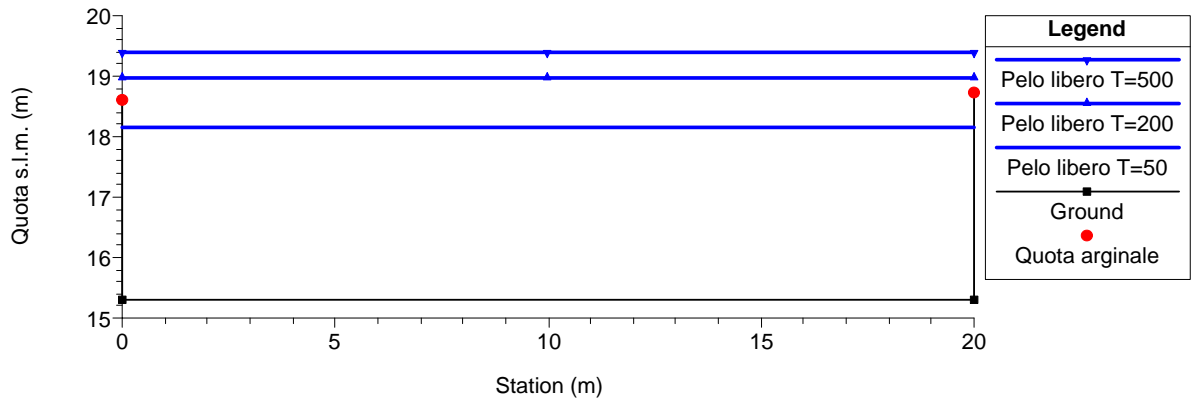
River = Quiliano Reach = Quazzola RS = 5



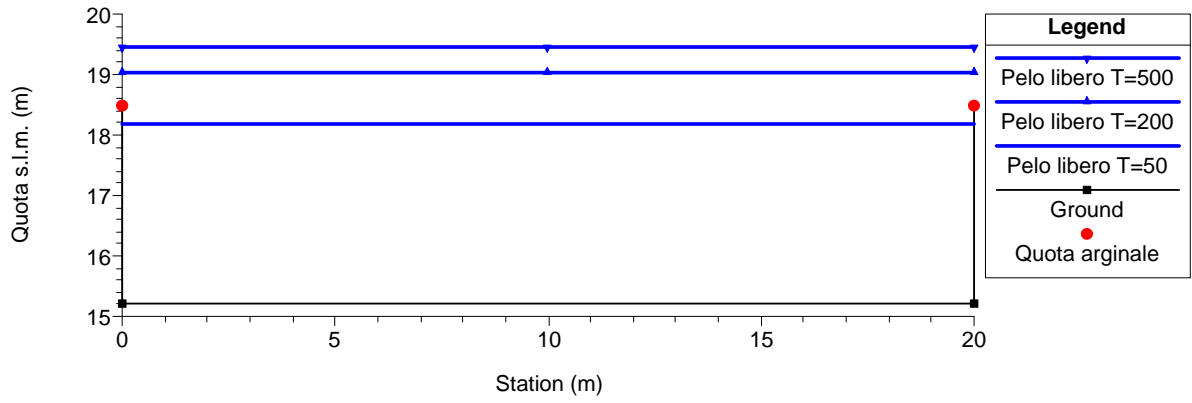
River = Quiliano Reach = Quazzola RS = 4



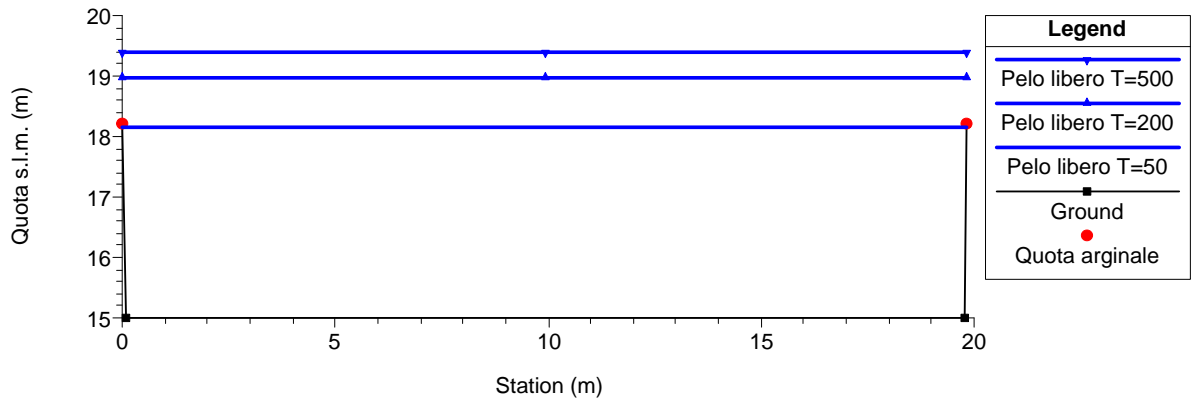
River = Quiliano Reach = Quazzola RS = 3



River = Quiliano Reach = Quazzola RS = 2



River = Quiliano Reach = Quazzola RS = 1



**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

QUAZZOLA

Torrente Quiliano - Quazzola T=50 anni

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
27	190	26.88	33.2	32.29	28.25	1.37	28.95	3.69	51.5	1
26	190	26.16	32.09	30.6	27.98	1.44	28.44	2.98	63.81	0.7
25	190	25.7	31.45	28.3	27.39	1.69	28.24	4.09	46.5	1
24	190	24.76	29.2	28.2	27.11	1.51	27.43	2.48	76.48	0.52
23	190	24.39	29.77	27.2	26.35	1.96	27.28	4.28	44.39	1
22	190	23.86	28.7	27.2	24.78	1.47	26.67	6.1	31.14	2.04
21	190	22.12	27.16	25.5	24.32	1.37	24.59	2.31	82.41	0.5
20	190	21.42	26	25.2	23.38	1.96	24.37	4.41	43.1	1.01
19	190	20.91	25.7	24.7	21.89	1.54	23.81	6.13	31	1.97
18	190	19.42	24.5	24.05	20.65	1.44	21.64	4.41	43.05	1.27
17	190	18.38	24.1	23.6	20.04	1.8	21.11	4.56	41.62	1.13
16	190	17.51	22.3	23.2	20.43	1.63	20.69	2.24	84.72	0.42
15	190	17.39	22.6	23.1	20.48	1.47	20.65	1.81	105.06	0.33
14	190	17.25	22.6	22.6	20.41	1.63	20.62	2.08	91.54	0.37
13	190	17.01	22.23	21.9	20.32	1.8	20.58	2.3	82.6	0.4
12	190	16.47	21	21	19.4	2.53	20.35	4.32	43.95	0.81
11	190	16.31	20.9	20.7	19.69	2.16	20.13	2.96	64.16	0.51
10	190	16.14	20.39	20.5	19.7	2.09	20.06	2.67	71.24	0.45
9	190	16.05	20.2	20.5	19.41	2.28	19.94	3.23	58.85	0.56
8	190	16.05	20.7	20.7	19.39	2.09	19.8	2.85	66.7	0.5
7.5	Bridge									
7	190	16.05	19.47	19.48	18.38	18.33	19.49	4.66	40.79	0.97
6	190	16.05	19.09	19.12	18.21	18.21	19.3	4.63	41.07	1
5	190	15.5	19	18.9	17.05	17.66	19.18	6.46	29.4	1.66
4	190	15.4	18.89	18.78	18.19	17.49	18.78	3.41	55.73	0.65
3	190	15.31	18.6	18.72	18.16	17.4	18.72	3.34	56.95	0.63
2	190	15.2	18.5	18.5	18.19	17.29	18.7	3.18	59.79	0.59
1	190	15	18.2	18.2	18.15	17.11	18.62	3.05	62.22	0.55

Torrente Quiliano - Quazzola T=200 anni

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
27	280	26.88	33.2	32.29	28.66	1.78	29.56	4.2	66.69	1
26	280	26.16	32.09	30.6	28.66	1.87	29.18	3.21	87.31	0.65
25	280	25.7	31.45	28.3	27.89	2.19	28.99	4.65	60.21	1
24	280	24.76	29.2	28.2	27.84	1.96	28.23	2.76	101.56	0.52
23	280	24.39	29.77	27.2	26.95	2.56	28.08	4.72	59.37	1
22	280	23.86	28.7	27.2	25.06	1.9	27.47	6.88	40.7	2.01
21	280	22.12	27.16	25.5	25.15	1.78	25.46	2.46	113.65	0.45
20	280	21.42	26	25.2	23.96	2.54	25.24	5.02	55.81	1.01
19	280	20.91	25.7	24.7	22.18	2	24.67	6.98	40.1	1.98
18	280	19.42	24.5	24.05	21.86	1.86	22.41	3.28	85.36	0.67
17	280	18.38	24.1	23.6	21.57	2.33	22.2	3.51	79.7	0.63
16	280	17.51	22.3	23.2	21.71	2.11	21.98	2.3	121.71	0.36
15	280	17.39	22.6	23.1	21.76	1.9	21.94	1.88	148.55	0.29
14	280	17.25	22.6	22.6	21.68	2.11	21.92	2.18	128.49	0.33
13	280	17.01	22.23	21.9	21.58	2.33	21.89	2.45	114.26	0.37
12	280	16.47	21	21	20.69	3.28	21.69	4.42	63.31	0.69
11	280	16.31	20.9	20.7	20.98	2.8	21.48	3.16	88.67	0.47
10	280	16.14	20.39	20.5	21	2.7	21.42	2.88	97.18	0.42
9	280	16.05	20.2	20.5	20.72	2.96	21.32	3.43	81.66	0.51
8	280	16.05	20.7	20.7	20.74	2.7	21.17	2.91	96.2	0.46
7.5	Bridge									
7	280	16.05	19.47	19.48	19	19	20.5	5.41	51.71	1.01
6	280	16.05	19.09	19.12	18.64	18.85	20.29	5.69	49.23	1.13
5	280	15.5	19	18.9	17.56	18.3	20.17	7.17	39.07	1.6
4	280	15.4	18.89	18.78	19.01	18.1	19.78	3.88	72.25	0.65
3	280	15.31	18.6	18.72	18.98	18.01	19.72	3.81	73.48	0.63
2	280	15.2	18.5	18.5	19.02	17.91	19.7	3.67	76.34	0.6
1	280	15	18.2	18.2	18.97	17.73	19.62	3.57	78.47	0.57

Torrente Quiliano - Quazzola T=500 anni

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
27	340	26.88	33.2	32.29	28.99	2.02	29.93	4.29	79.25	0.94
26	340	26.16	32.09	30.6	29.07	2.12	29.64	3.34	101.74	0.63
25	340	25.7	31.45	28.3	28.19	2.49	29.45	4.97	68.43	1.01
24	340	24.76	29.2	28.2	28.26	2.23	28.69	2.91	116.93	0.52
23	340	24.39	29.77	27.2	27.28	2.89	28.54	4.97	68.36	1.01
22	340	23.86	28.7	27.2	25.23	2.16	27.93	7.27	46.74	1.98
21	340	22.12	27.16	25.5	25.66	2.02	25.99	2.56	132.75	0.43
20	340	21.42	26	25.2	24.31	2.89	25.77	5.35	63.52	1.01
19	340	20.91	25.7	24.7	22.36	2.27	25.18	7.44	45.68	1.97
18	340	19.42	24.5	24.05	23.09	2.12	23.45	2.65	128.42	0.44
17	340	18.38	24.1	23.6	22.88	2.65	23.34	3.02	112.4	0.46
16	340	17.51	22.3	23.2	22.97	2.41	23.2	2.15	158.3	0.29
15	340	17.39	22.6	23.1	23.01	2.16	23.17	1.78	191.24	0.24
14	340	17.25	22.6	22.6	22.95	2.4	23.16	2.06	165.19	0.28
13	340	17.01	22.23	21.9	22.86	2.65	23.14	2.33	146.23	0.31
12	340	16.47	21	21	22.2	3.73	22.99	3.96	85.87	0.53
11	340	16.31	20.9	20.7	22.41	3.18	22.85	2.93	115.94	0.38
10	340	16.14	20.39	20.5	22.43	3.08	22.8	2.7	125.86	0.34
9	340	16.05	20.2	20.5	22.23	3.37	22.73	3.15	108.06	0.4
8	340	16.05	20.7	20.7	22.29	3.08	22.62	2.55	133.41	0.35
7.5	Bridge									
7	340	16.05	19.47	19.48	19.23	19.42	21.13	6.12	55.6	1.1
6	340	16.05	19.09	19.12	19.23	19.24	20.84	5.63	60.36	1.01
5	340	15.5	19	18.9	17.92	18.68	20.71	7.4	45.92	1.52
4	340	15.4	18.89	18.78	19.44	18.48	20.34	4.21	80.78	0.67
3	340	15.31	18.6	18.72	19.41	18.39	20.28	4.15	81.95	0.65
2	340	15.2	18.5	18.5	19.44	18.28	20.26	4.01	84.87	0.62
1	340	15	18.2	18.2	19.39	18.11	20.17	3.92	86.78	0.6