

AUTORITA' DI BACINO
DI RILIEVO REGIONALE



PROVINCIA
DI SAVONA

PIANO DI BACINO LETIMBRO

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

Approvato con D.C.P. n. 47 del 25/11/2003

AGGIORNAMENTI PIANO DI BACINO LETIMBRO

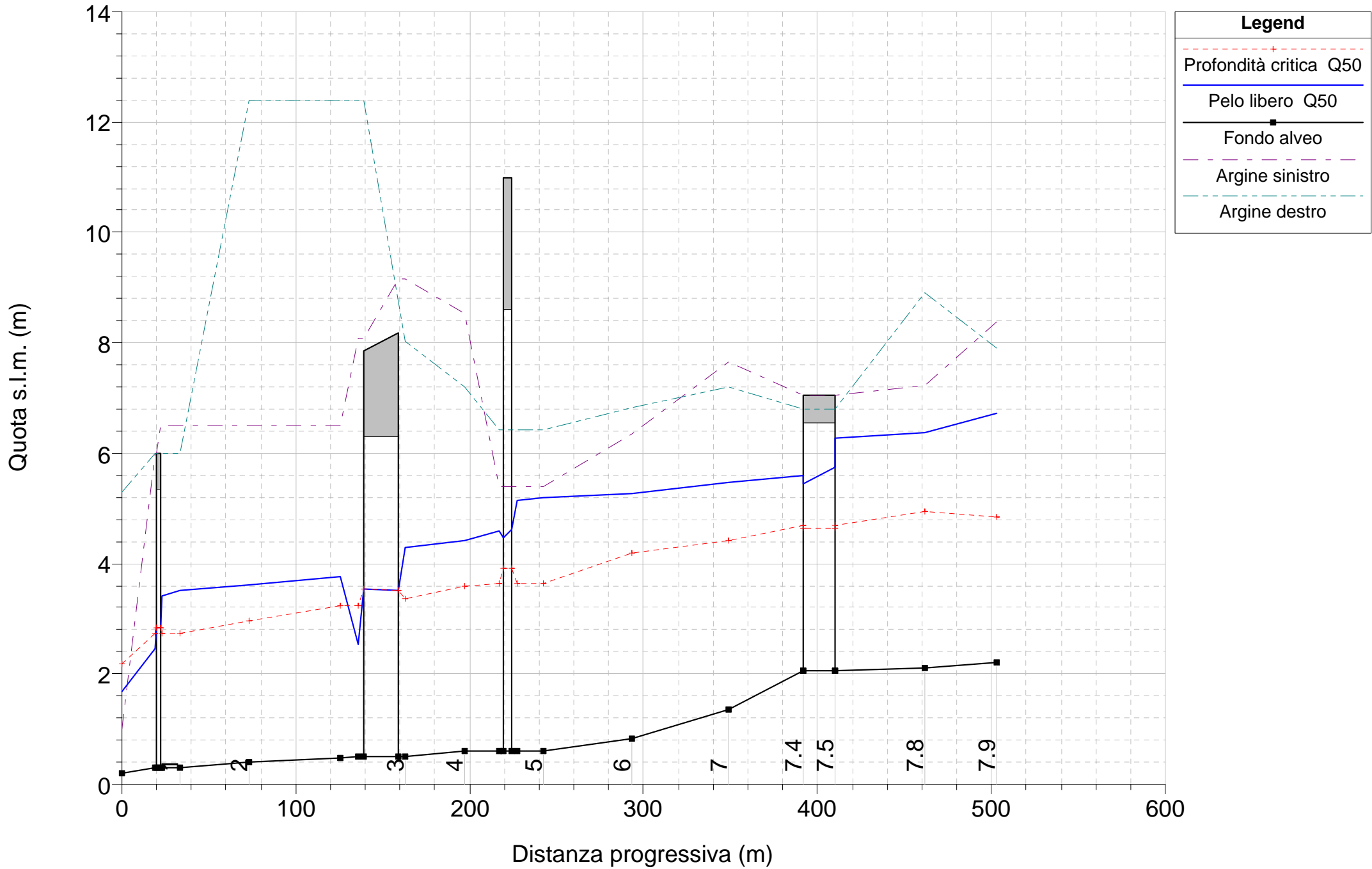
DELIBERA	OGGETTO	DESCRIZIONE	ATTI MODIFICATI
DCP n. 17 del 29/03/2004	Approvazione degli aggiornamenti degli atti di piano ai sensi dell'art. 97 della L.R. 18/99	Riperimetrazione relativa alla foce del T.Letimbro, così come approvato nel Comitato Tecnico del 4/12/2003	<ul style="list-style-type: none"> - Relazione generale di piano - Verifiche idrauliche - TAV.9 Carta delle fasce di inondabilità (marzo 2004) CTR 229100-060 - TAV.11 Carta del rischio idraulico (marzo 2004) CTR 229100-060 - TAV.14 Carta delle aree inondabili (marzo 2004) CTR 229100-060
D.G.P. n.156 del 26/07/2005	Attuazione del comma 15 dell'art. 97 della L.R. 18/1999 relativo alle procedure di modifica ed integrazione dei piani di bacino di rilievo regionale	Aggiornamento dei Piani di Bacino sulla base delle attività finanziate con D.G.R. 1592/03, mediante approfondimenti geologici sul bacino del Torrente Letimbro, come approvato nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 19/05/2005	<ul style="list-style-type: none"> - Relazione generale - TAV. 02 Carta Geolitologica (CTP 19/05/05) CTR 229010; 229020; 229050; 229060 - TAV. 03 Carta Geomorfologica (CTP 19/05/05) CTR 229060; 229010 - TAV. 05 Carta della Franosità Reale (CTP 19/05/05) CTR 229060; 229010 - TAV. 08 Carta della Suscettività al dissesto dei versanti (CTP 19/05/05) CTR 229060 - TAV. 10 Carta del Rischio Geomorfologico (CTP 19/05/05) CTR 229060; 229010
		Aggiornamento dei Piani di Bacino sulla base delle attività finanziate con D.G.R. 1592/03, mediante studio idraulico del Rio Fossato e Torrente Loriano come approvato nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 28/06/05	<ul style="list-style-type: none"> - Relazione generale - TAV. 09 Carta delle Fasce di inondabilità (CTP 28/06/05) CTR 229010-020-050-060 - TAV. 11 Carta del Rischio Idraulico (CTP 28/06/05) CTR 229010-020-050-060-90-100 - TAV. 14 Carta delle Aree inondabili (CTP 28/06/05) CTR 229020; 229060 - TAV. 17 Carta dei tratti d'alveo indagati (CTP 28/06/05) CTR 229-3; 229-4 - Verifiche idrauliche

		<p>Aggiornamento dei Piani di Bacino sulla base delle attività finanziate con D.G.R. 1592/03, mediante revisione del piano interventi sul bacino del Torrente Letimbro, come approvato nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 28/06/05</p>	<ul style="list-style-type: none"> - Relazione generale - Piano interventi - TAV. 12 Carta degli interventi (CTP 28/06/05) CTR 229010; 229020; 229050; 229060 - TAV 16 Carta fascia di riassetto fluviale (CTP 28/06/05) CTR 229100-060
		<p>Modifiche degli atti di piano a seguito di evidenziazione di errori di priorità di stampa, controllo incrociato dei tematismi, comunicazioni da parte di altri Servizi di questo Settore come approvati nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 19/05/2005</p>	<ul style="list-style-type: none"> - TAV.8 Carta della suscettività al dissesto dei versanti (CTP 19/05/05) CTR 229010 - TAV.10 Carta del rischio geomorfologico (CTP 19/05/05) CTR 229010

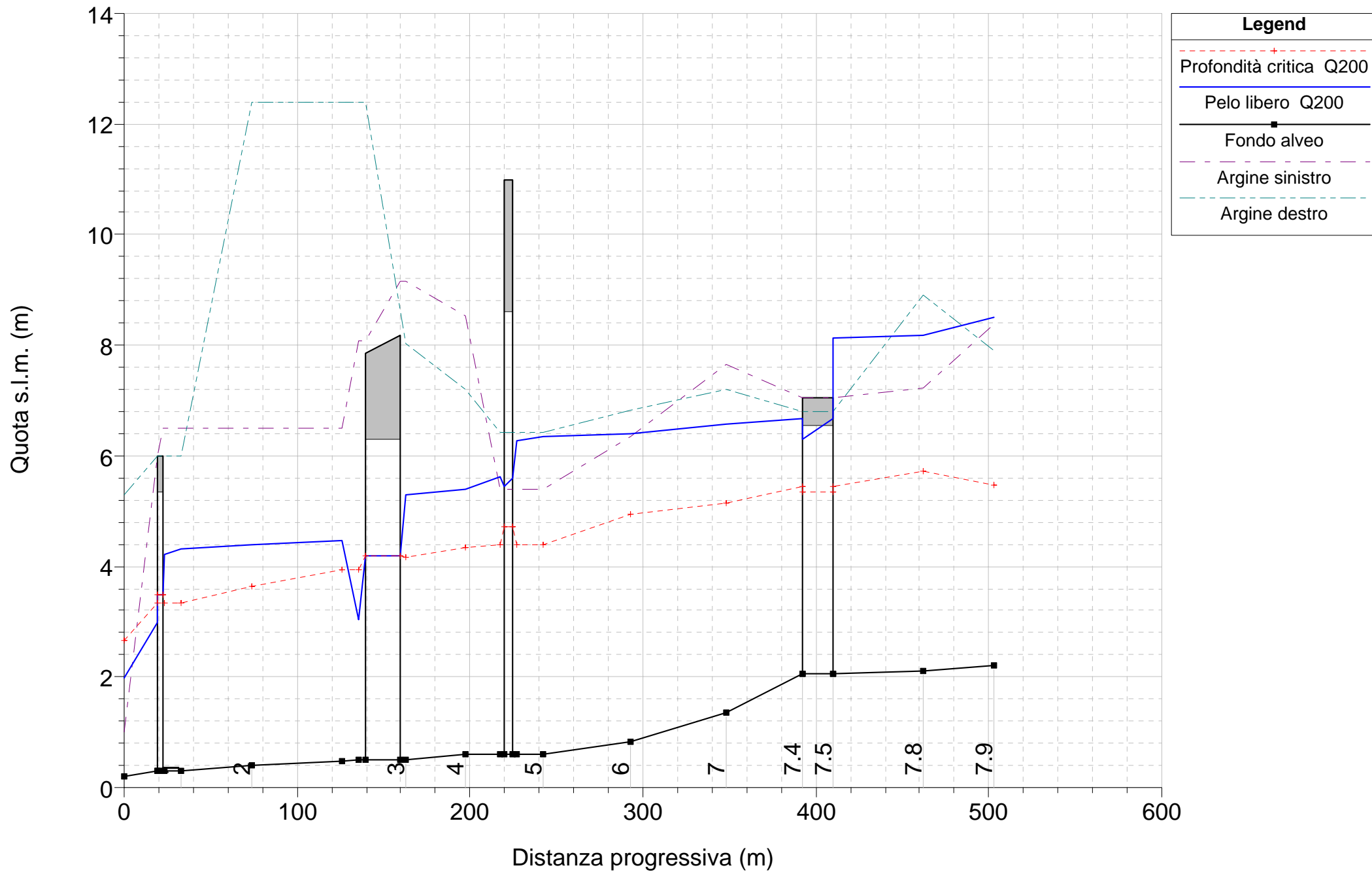
**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

LETIMBRO FOCE

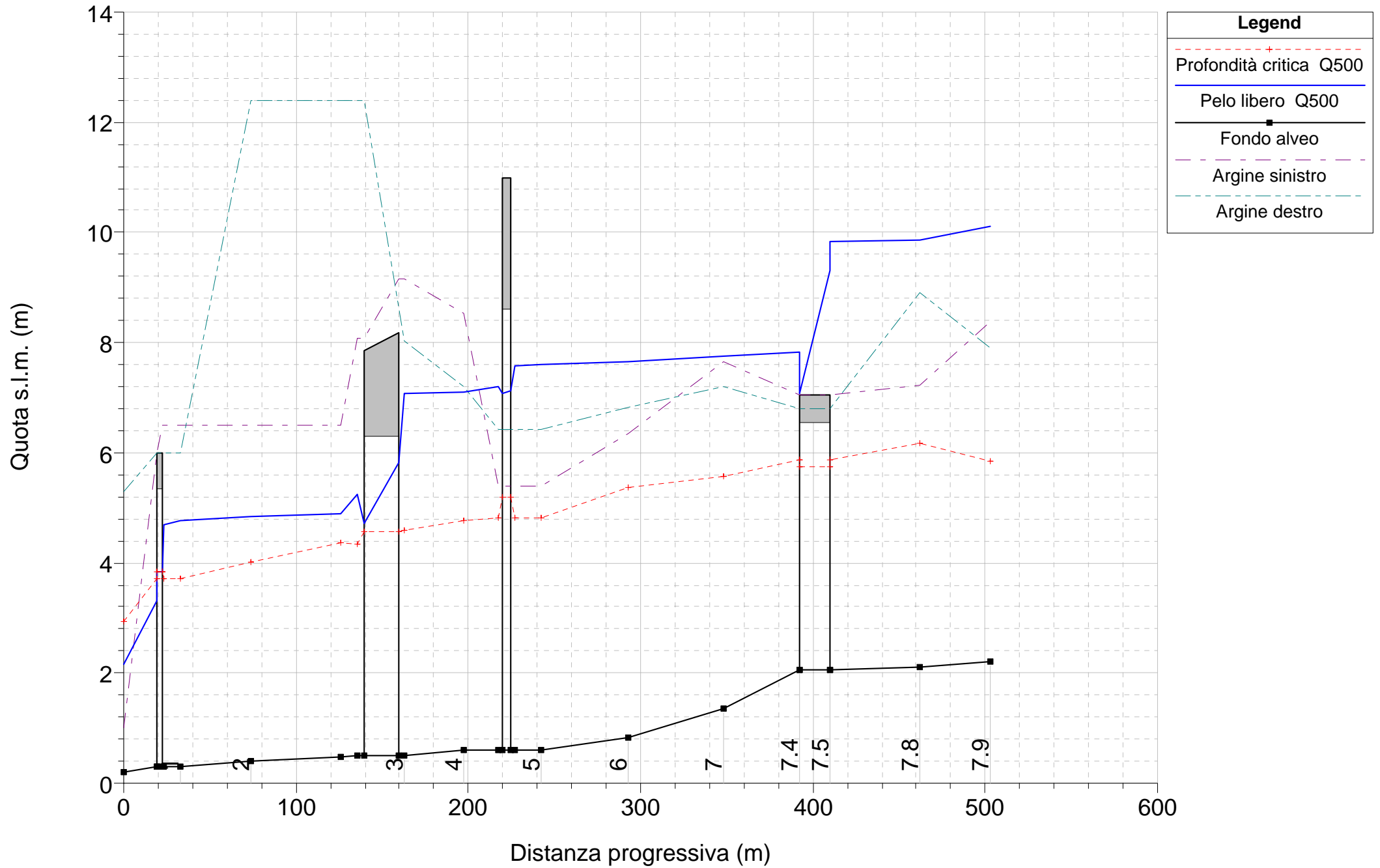
Torrente Letimbro – ripermetrazione foce – Profilo per T=50 anni



Torrente Letimbro – ripermetrazione foce – Profilo per T=200 anni



Torrente Letimbro – ripermetrazione foce – Profilo 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**

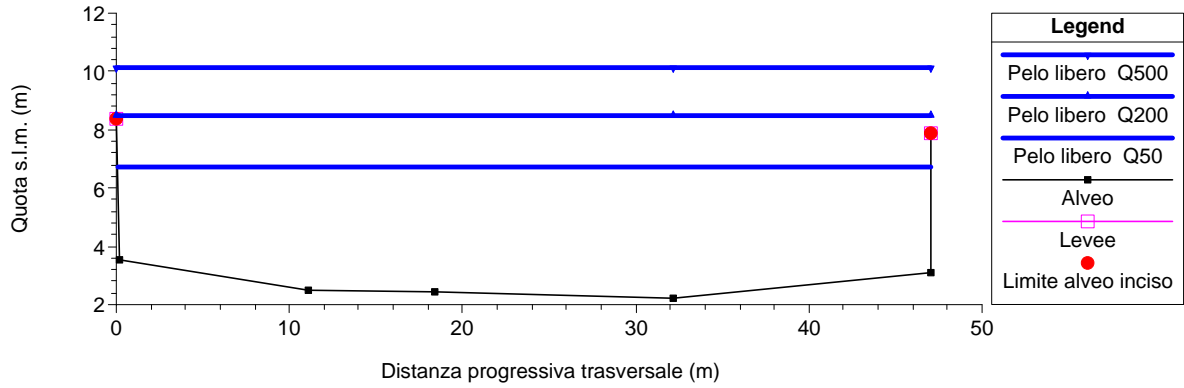
LETIMBRO FOCE

ALLA SEZ. 7.9
DALLA SEZ. 0

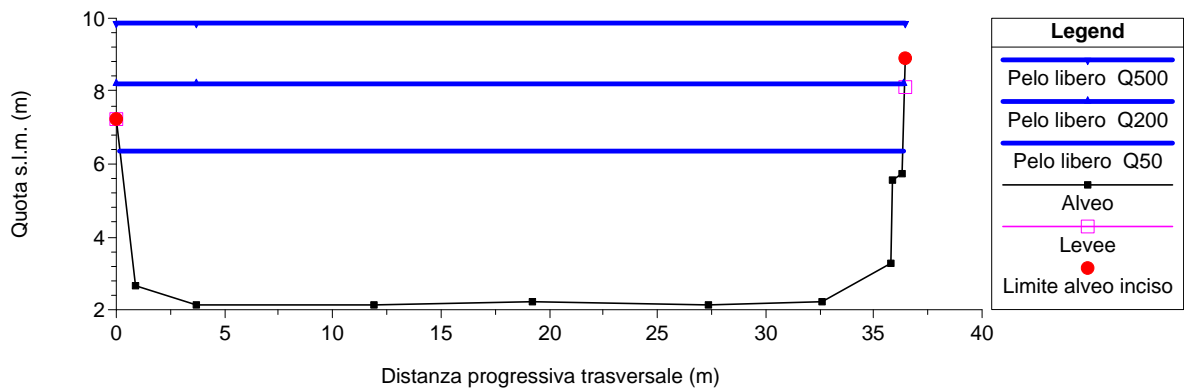
Torrente Letimbro – ripermetrazione foce

Sezioni trasversali

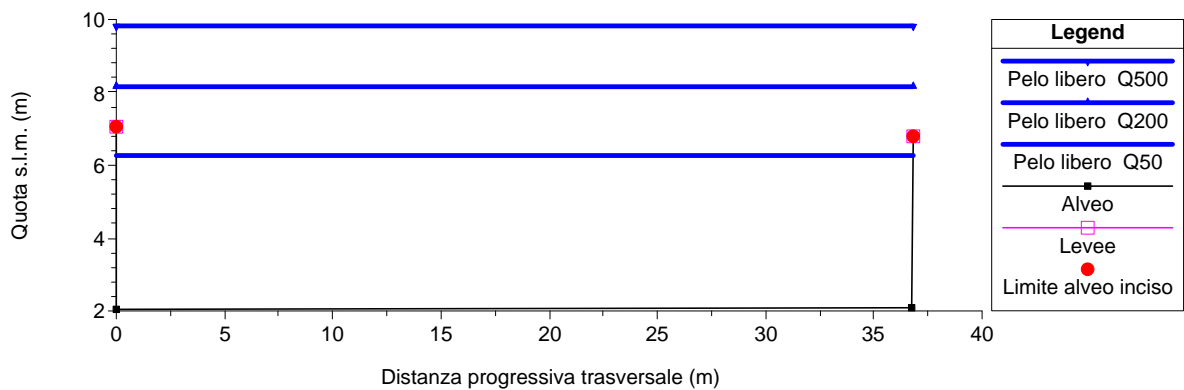
Sez. 7.9



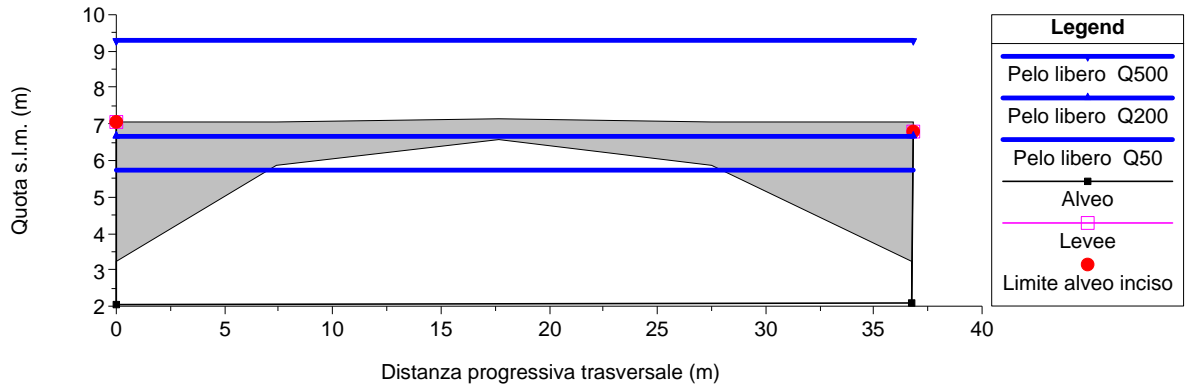
Sez. 7.8



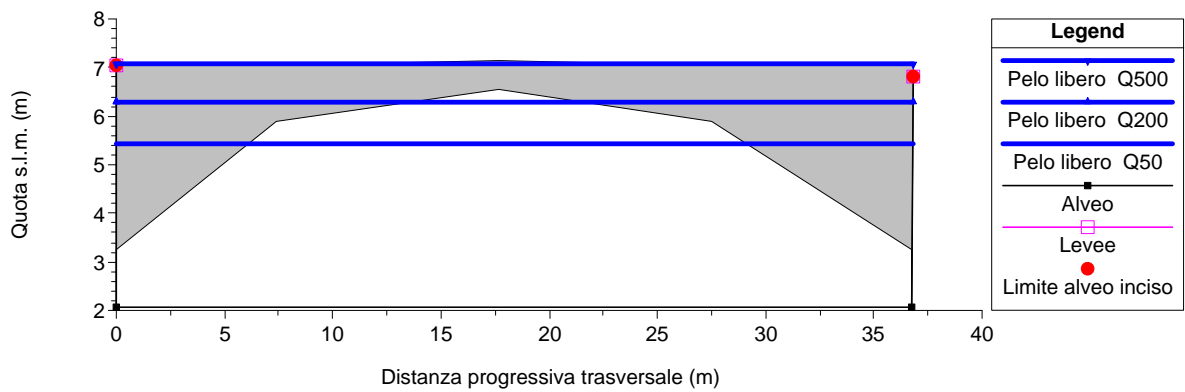
Sez. 7.6



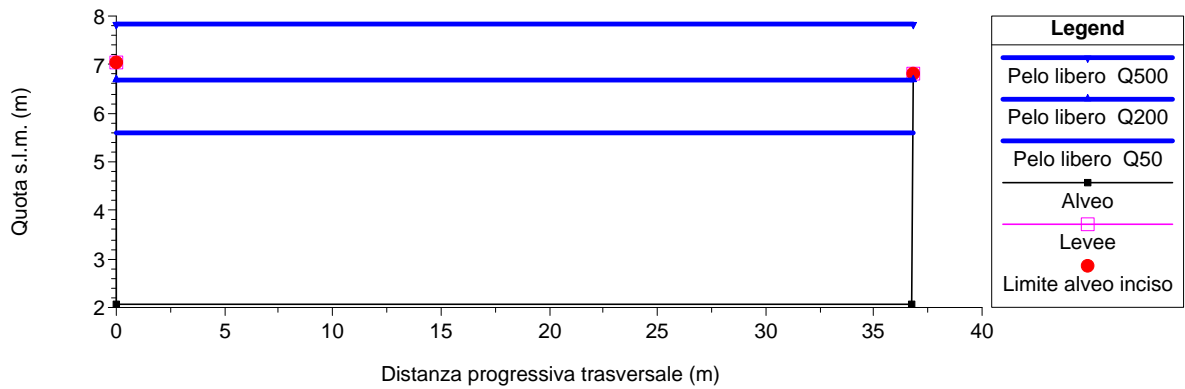
Ponte corso Tardy & Benech / via Mazzini sez. 7.5



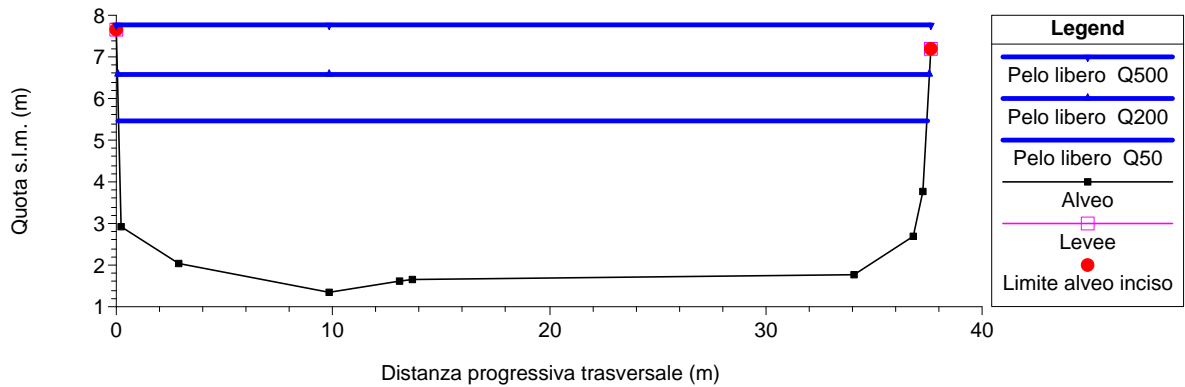
Ponte corso Tardy & Benech / via Mazzini sez. 7.5



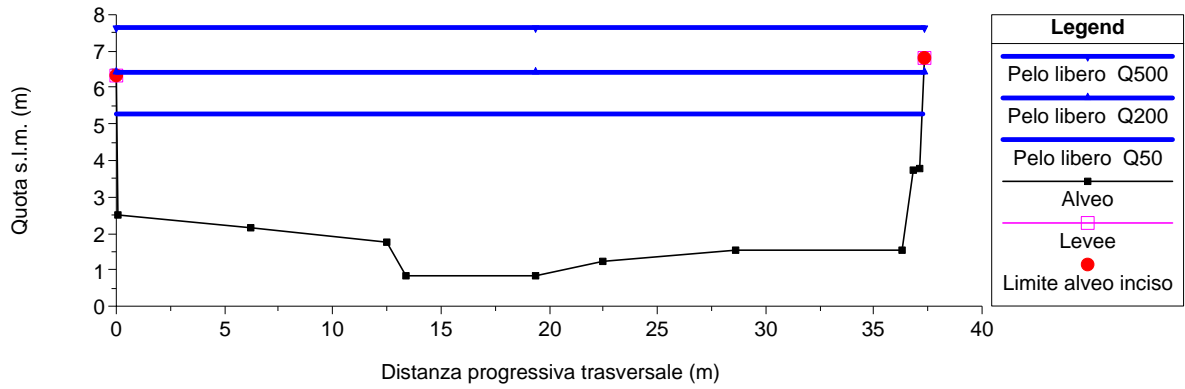
Sez. 7.4



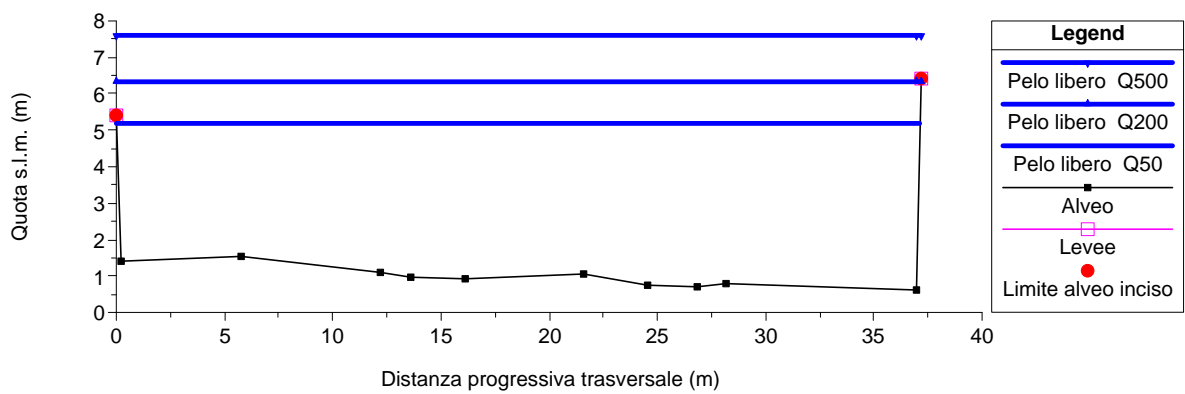
Sez. 7



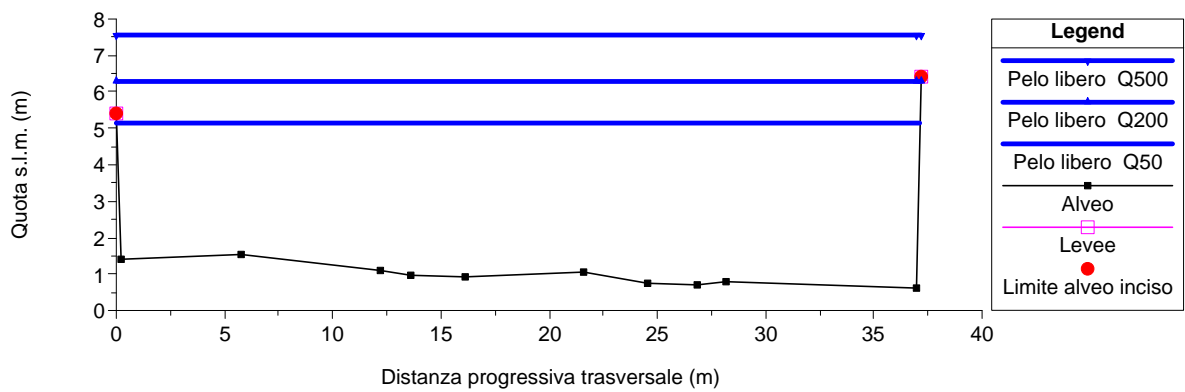
Sez. 6



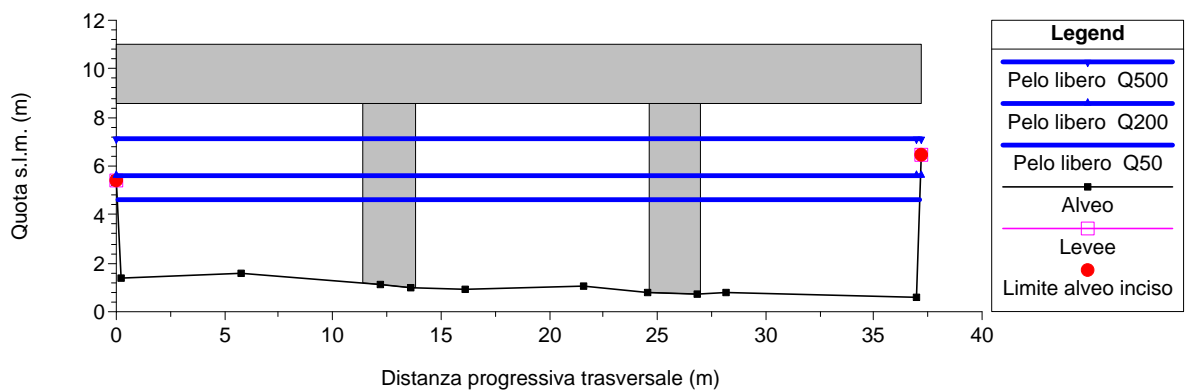
Sez. 5



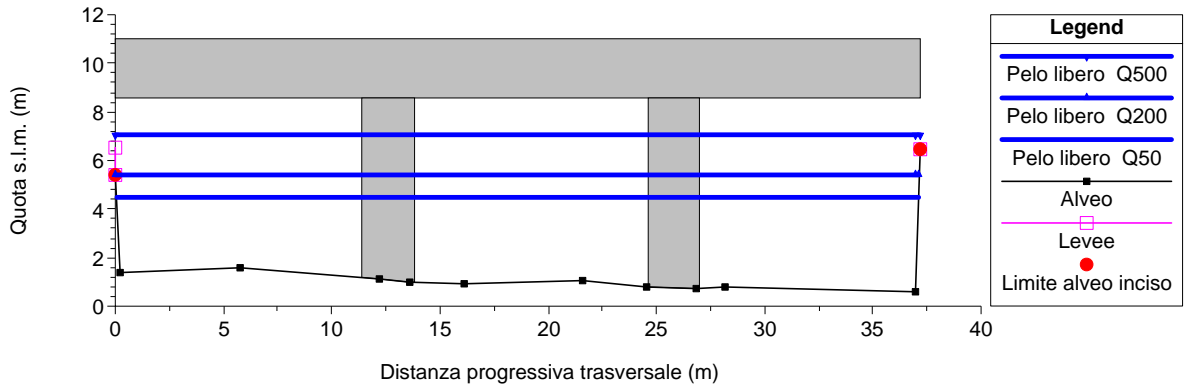
Sez. 4.6



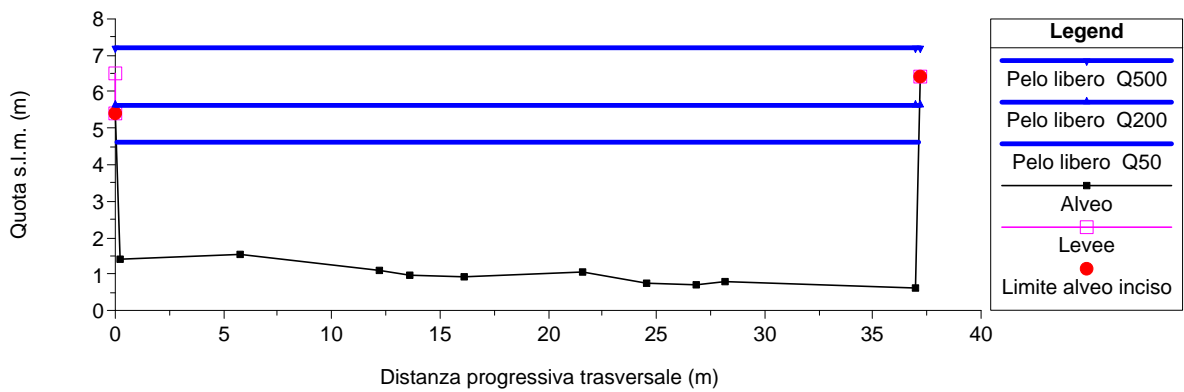
Ponte FF.SS. sez. 4.5



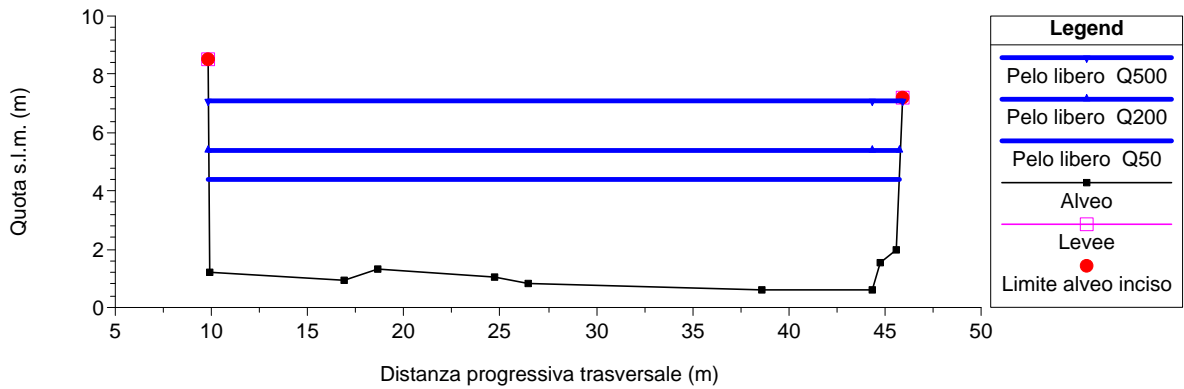
Ponte FF.SS. sez. 4.5



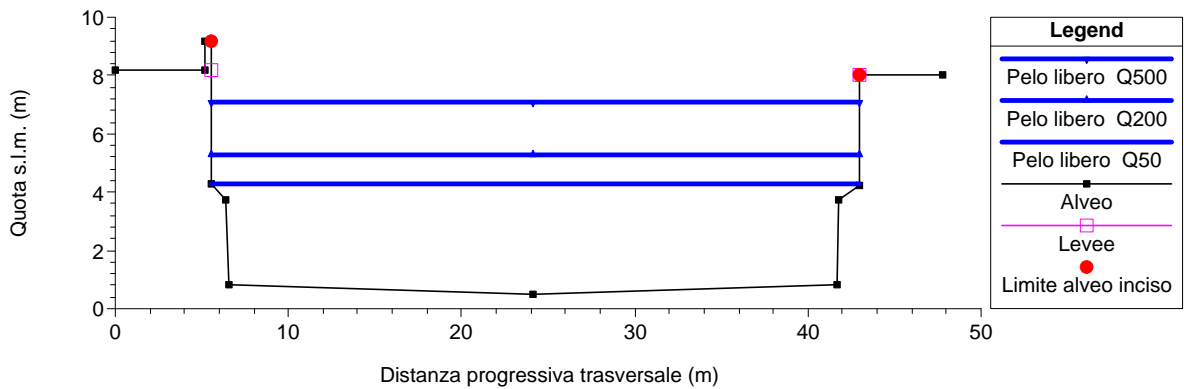
Sez. 4.4



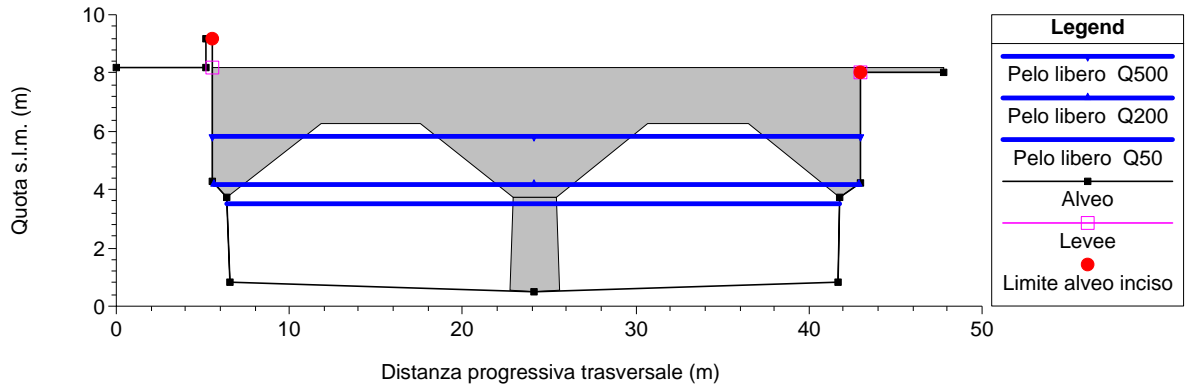
Sez. 4



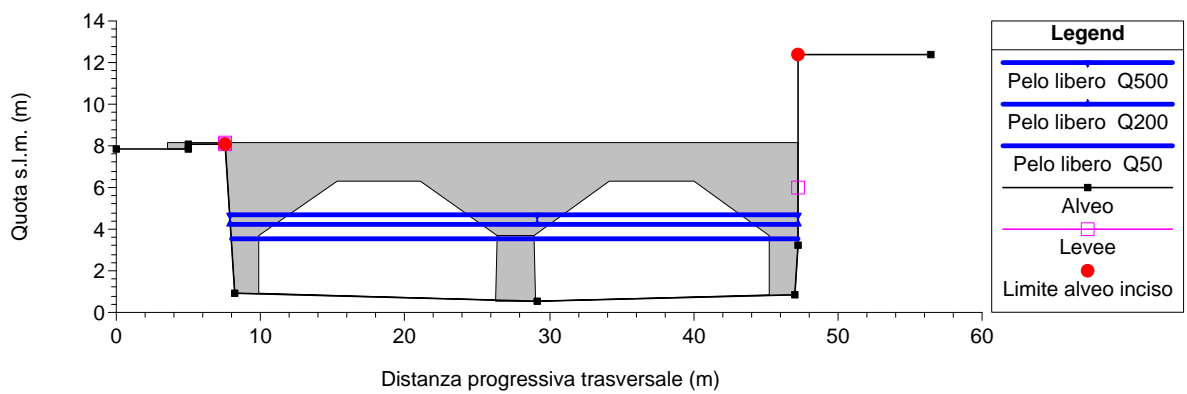
Sez. 3



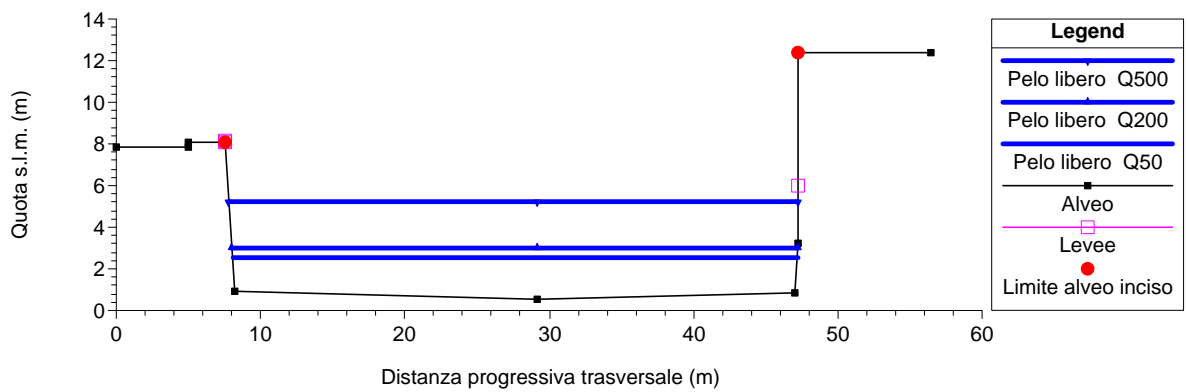
Ponte via Aurelia - corso Colombo sez. 2.5



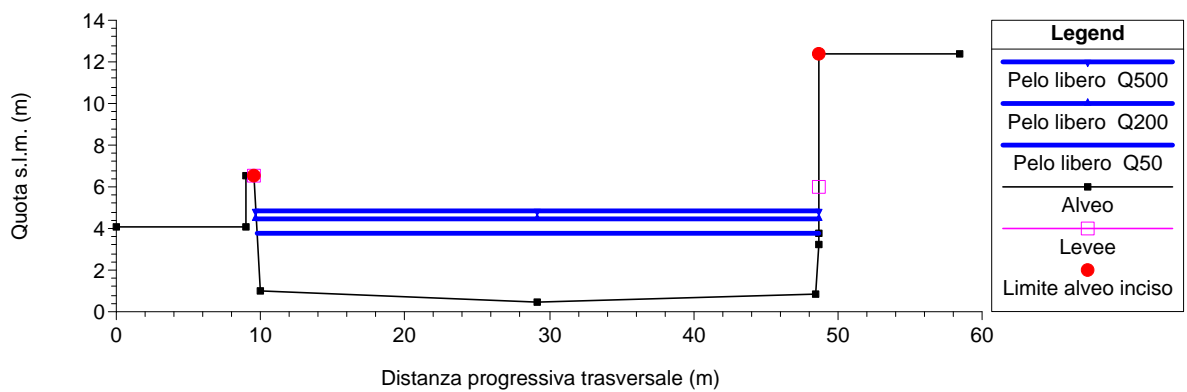
Ponte via Aurelia - corso Colombo sez. 2.5



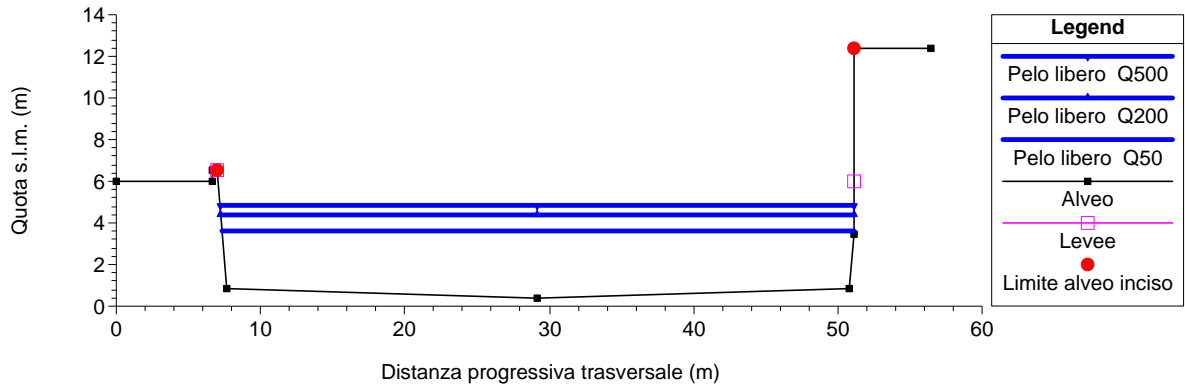
Sez. 2.2



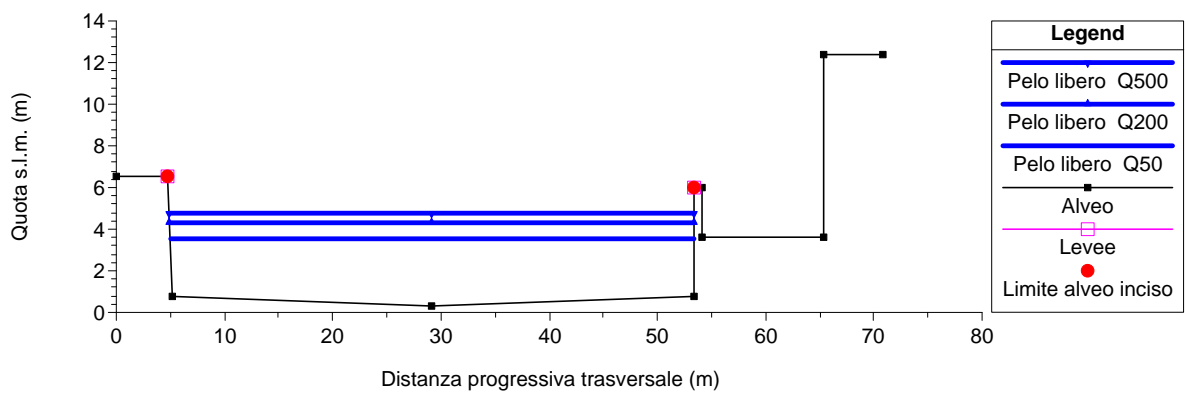
Sez. 2.1



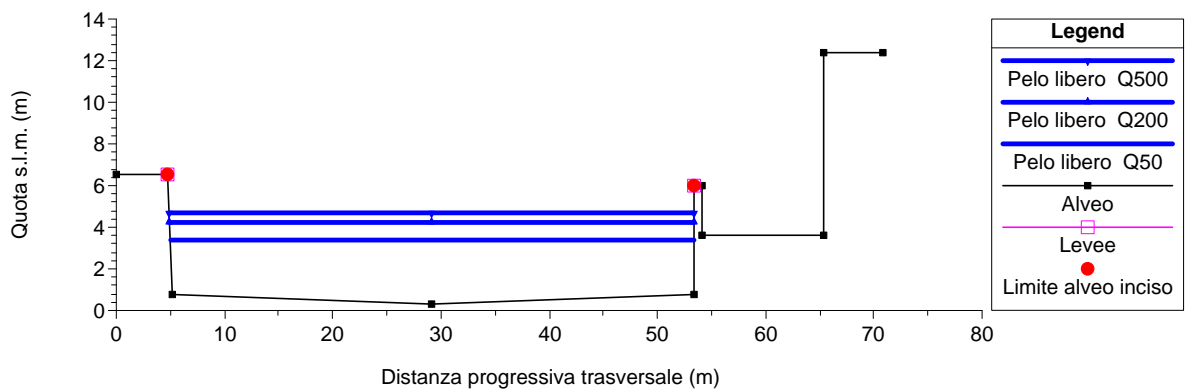
Sez. 2



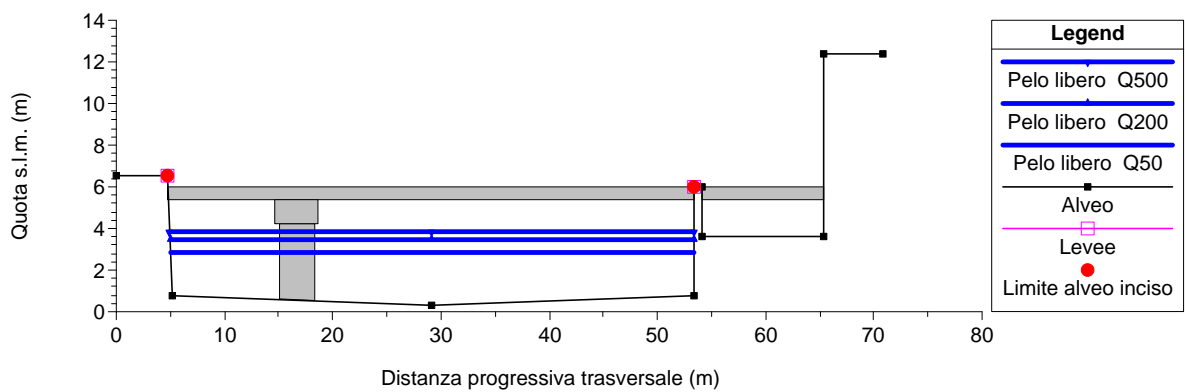
Sez. 1



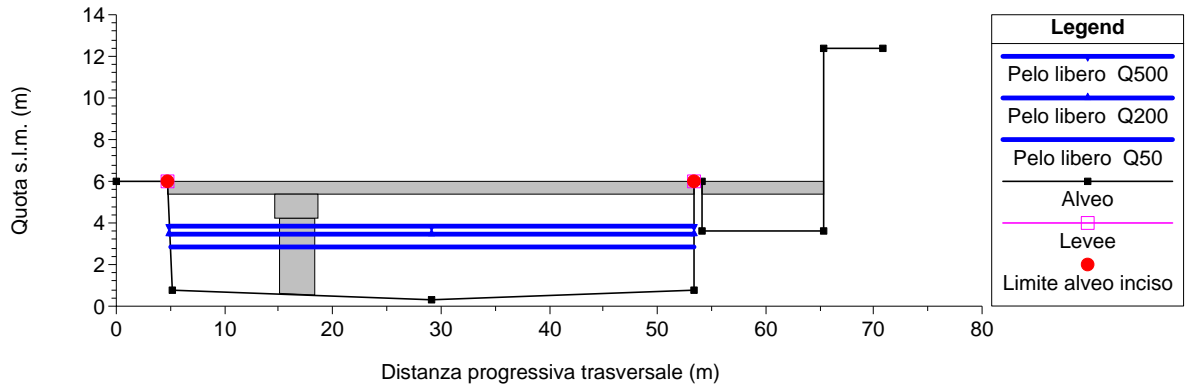
Sez. 0.6



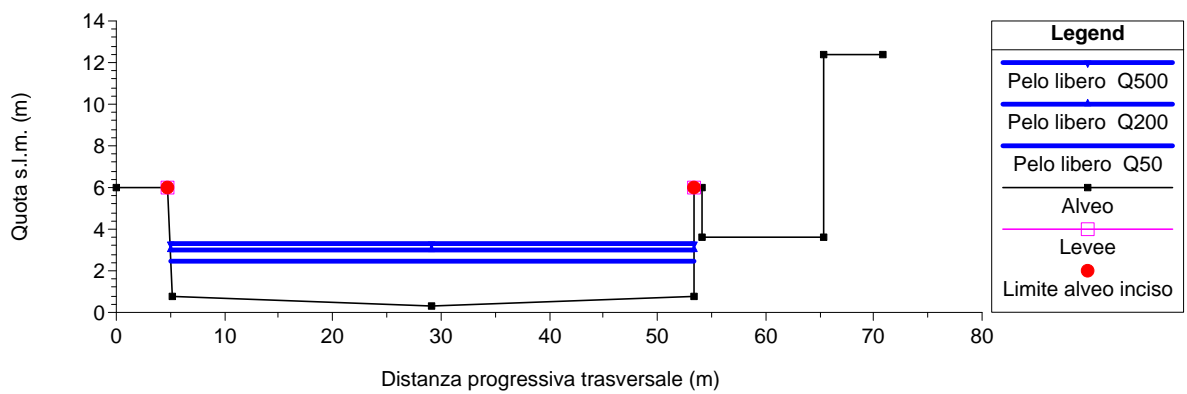
Passerella pedonale "Ruffino" sez 0.5



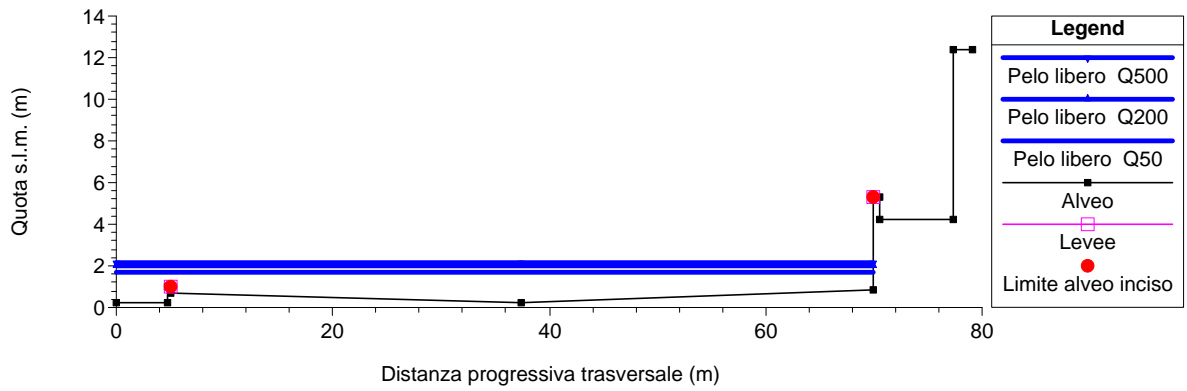
Passerella pedonale "Ruffino" sez 0.5



Sez. 0.4



Sez. 0



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

LETIMBRO FOCE

Torrente Letimbro - ripermetrazione foce							Profilo T=50 anni			
Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m ²)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
7.9	490	2.2	8.38	7.9	6.71	4.84	7.04	2.55	192.34	0.4
7.8	490	2.12	7.22	8.9	6.36	4.95	6.94	3.36	145.86	0.53
7.6	490	2.06	7.04	6.81	6.28	4.7	6.79	3.17	154.79	0.49
7.5	Bridge									
7.4	490	2.06	7.04	6.81	5.59	4.7	6.32	3.79	129.33	0.65
7	490	1.36	7.64	7.21	5.46	4.41	6.12	3.61	135.84	0.6
6	490	0.84	6.34	6.83	5.28	4.2	5.93	3.58	136.92	0.6
5	490	0.6	5.4	6.43	5.2	3.65	5.72	3.17	154.41	0.5
4.6	490	0.6	5.4	6.43	5.15	3.65	5.68	3.22	152.34	0.51
4.5	Bridge									
4.4	490	0.6	5.4	6.43	4.6	3.65	5.3	3.71	132.09	0.63
4	490	0.59	8.53	7.2	4.42	3.59	5.2	3.91	125.4	0.67
3	490	0.5	9.17	8.02	4.29	3.36	5.03	3.8	128.97	0.65
2.5	Bridge									
2.2	490	0.5	8.08	12.4	2.53	3.22	4.92	6.85	71.52	1.62
2.1	490	0.47	6.5	12.4	3.76	3.24	4.63	4.12	118.98	0.75
2	490	0.4	6.5	12.4	3.61	2.97	4.33	3.76	130.36	0.7
1	490	0.3	6.5	6	3.5	2.73	4.1	3.42	143.13	0.64
0.6	490	0.3	6.5	6	3.41	2.73	4.05	3.53	138.72	0.67
0.5	Bridge									
0.4	490	0.3	6	6	2.46	2.73	3.89	5.3	92.53	1.22
0	490	0.2	1	5.3	1.68	2.18	3.38	5.83	84.93	1.7

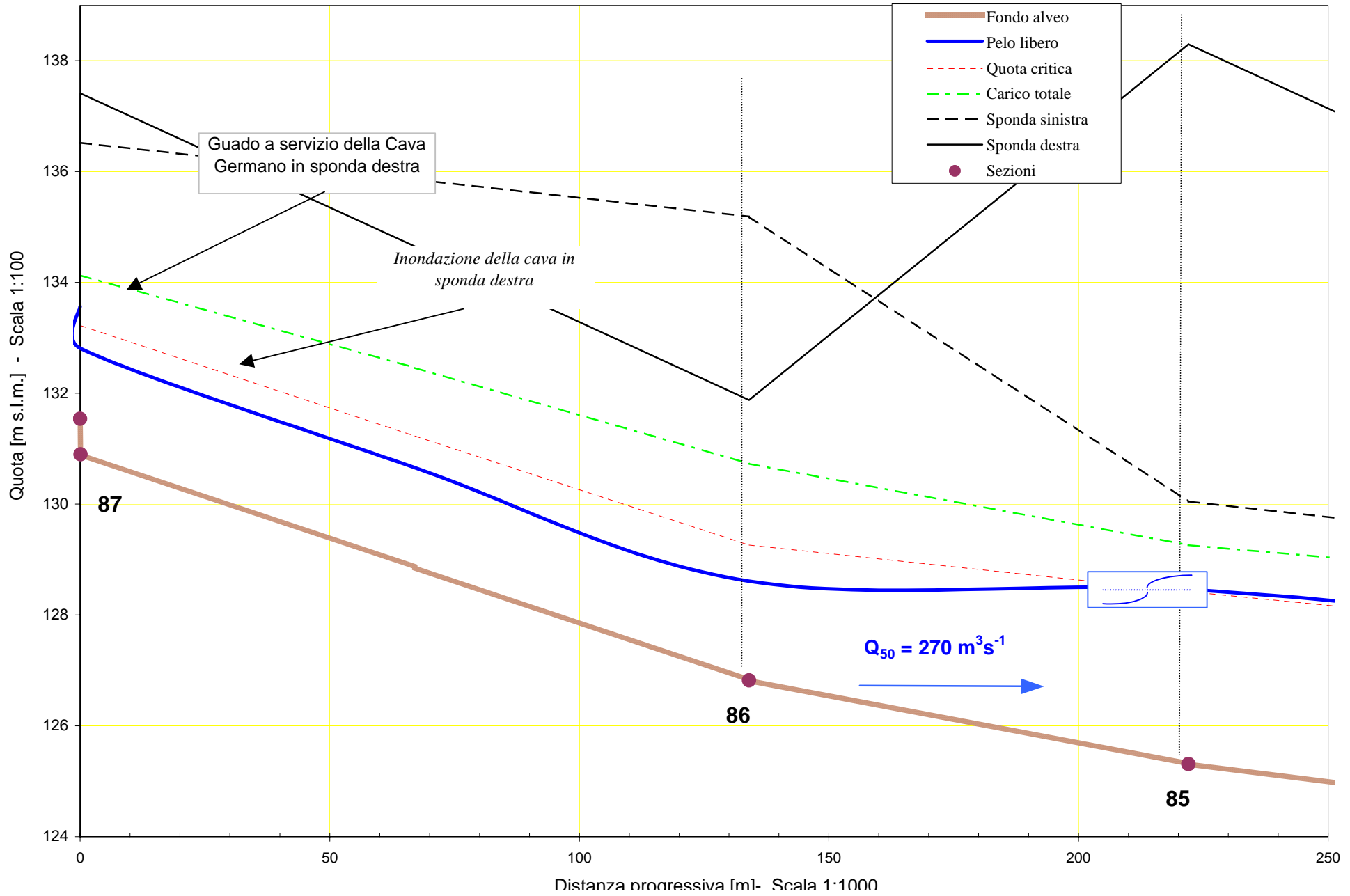
Torrente Letimbro - ripermetrage foca							Profilo T=200 anni			
Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m ²)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
7.9	710	2.2	8.38	7.9	8.5	5.47	8.84	2.57	276.43	0.34
7.8	710	2.12	7.22	8.9	8.19	5.73	8.76	3.35	212.17	0.44
7.6	710	2.06	7.04	6.81	8.14	5.43	8.65	3.18	223.22	0.41
7.5	Bridge									
7.4	710	2.06	7.04	6.81	6.68	5.43	7.57	4.19	169.56	0.62
7	710	1.36	7.64	7.21	6.57	5.15	7.39	4	177.47	0.59
6	710	0.84	6.34	6.83	6.41	4.93	7.21	3.97	178.99	0.58
5	710	0.6	5.4	6.43	6.34	4.38	7	3.61	196.5	0.5
4.6	710	0.6	5.4	6.43	6.28	4.38	6.96	3.65	194.43	0.51
4.5	Bridge									
4.4	710	0.6	5.4	6.43	5.62	4.38	6.51	4.18	169.82	0.62
4	710	0.59	8.53	7.2	5.4	4.34	6.4	4.42	160.73	0.67
3	710	0.5	9.17	8.02	5.3	4.16	6.22	4.26	166.55	0.65
2.5	Bridge									
2.2	710	0.5	8.08	12.4	3.02	3.93	6.14	7.81	90.87	1.64
2.1	710	0.47	6.5	12.4	4.47	3.95	5.67	4.84	146.61	0.8
2	710	0.4	6.5	12.4	4.39	3.63	5.34	4.32	164.32	0.71
1	710	0.3	6.5	6	4.3	3.34	5.08	3.9	182.01	0.64
0.6	710	0.3	6.5	6	4.22	3.34	5.03	4	177.67	0.67
0.5	Bridge									
0.4	710	0.3	6	6	3	3.34	4.82	5.99	118.59	1.22
0	710	0.2	1	5.3	1.99	2.66	4.27	6.77	106.22	1.76

Torrente Letimbro - ripermetrage foca							Profilo T=500 anni			
Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m ²)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
7.9	850	2.2	8.38	7.9	10.11	5.84	10.41	2.41	352.32	0.28
7.8	850	2.12	7.22	8.9	9.86	6.16	10.35	3.11	273.02	0.36
7.6	850	2.06	7.04	6.81	9.83	5.86	10.28	2.98	285.37	0.34
7.5	Bridge									
7.4	850	2.06	7.04	6.81	7.83	5.86	8.65	4.01	211.91	0.53
7	850	1.36	7.64	7.21	7.76	5.57	8.51	3.83	222.22	0.5
6	850	0.84	6.34	6.83	7.65	5.36	8.38	3.77	225.51	0.49
5	850	0.6	5.4	6.43	7.6	4.81	8.22	3.49	243.62	0.44
4.6	850	0.6	5.4	6.43	7.57	4.81	8.19	3.51	242.27	0.44
4.5	Bridge									
4.4	850	0.6	5.4	6.43	7.21	4.81	7.91	3.71	228.93	0.48
4	850	0.59	8.53	7.2	7.11	4.78	7.85	3.83	222.08	0.49
3	850	0.5	9.17	8.02	7.07	4.6	7.74	3.65	232.9	0.47
2.5	Bridge									
2.2	850	0.5	8.08	12.4	5.24	4.34	6.4	4.77	178.17	0.72
2.1	850	0.47	6.5	12.4	4.88	4.36	6.27	5.23	162.56	0.82
2	850	0.4	6.5	12.4	4.84	4.01	5.93	4.61	184.3	0.72
1	850	0.3	6.5	6	4.78	3.7	5.65	4.15	204.89	0.64
0.6	850	0.3	6.5	6	4.69	3.7	5.6	4.24	200.62	0.67
0.5	Bridge									
0.4	850	0.3	6	6	3.31	3.7	5.37	6.36	133.67	1.22
0	850	0.2	1	5.3	2.17	2.94	4.79	7.26	118.75	1.79

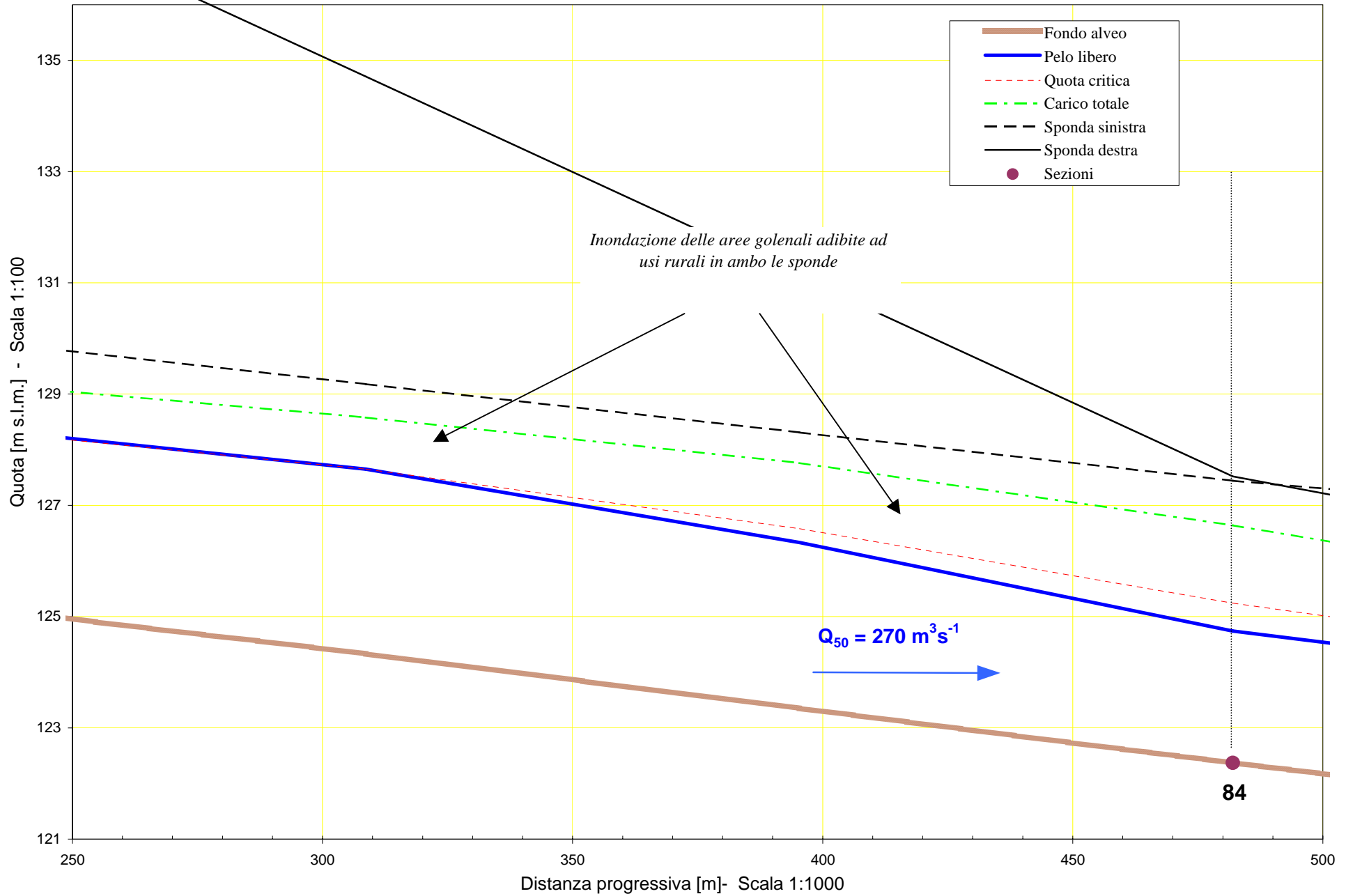
**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

LETIMBRO

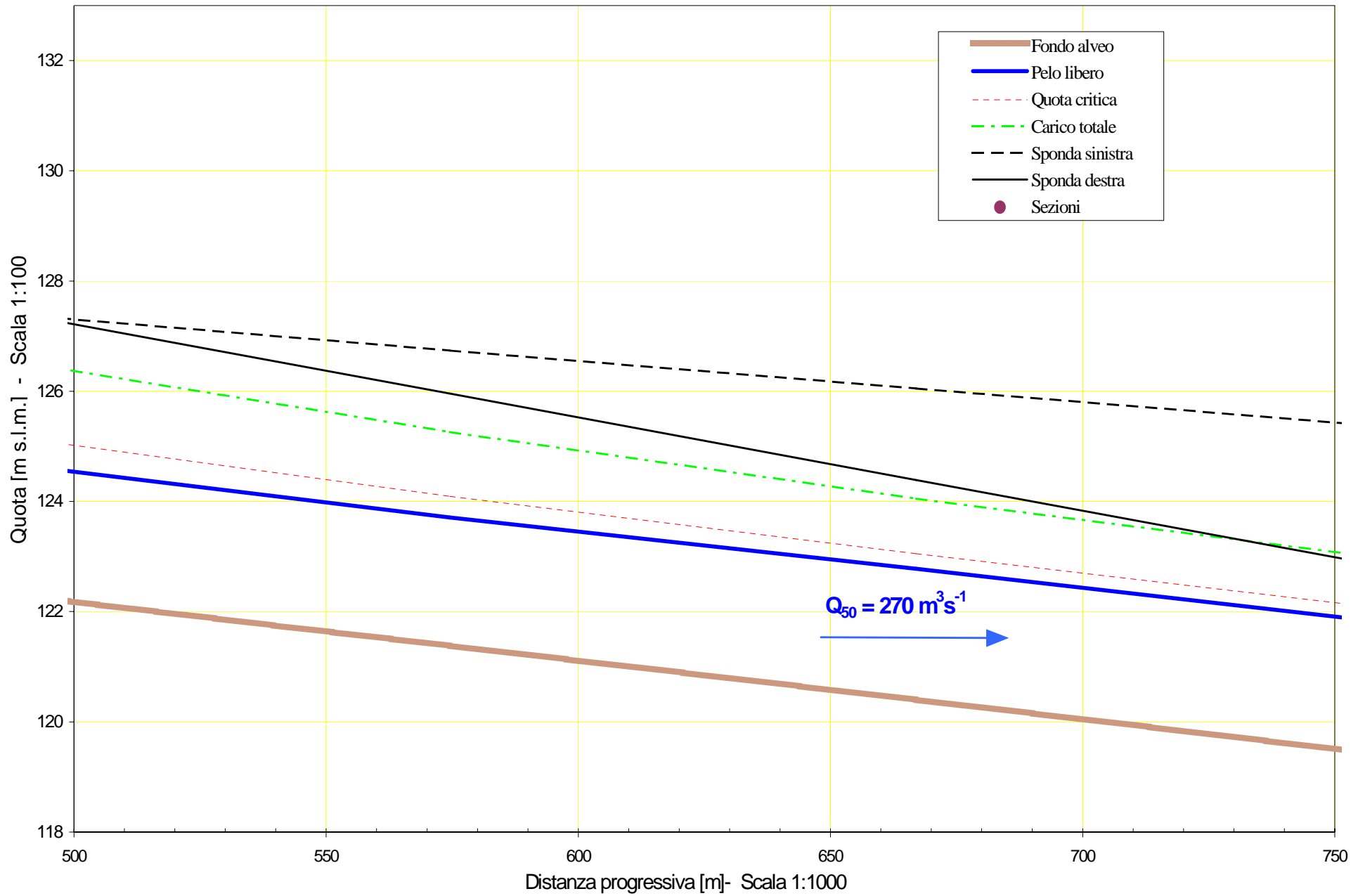
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



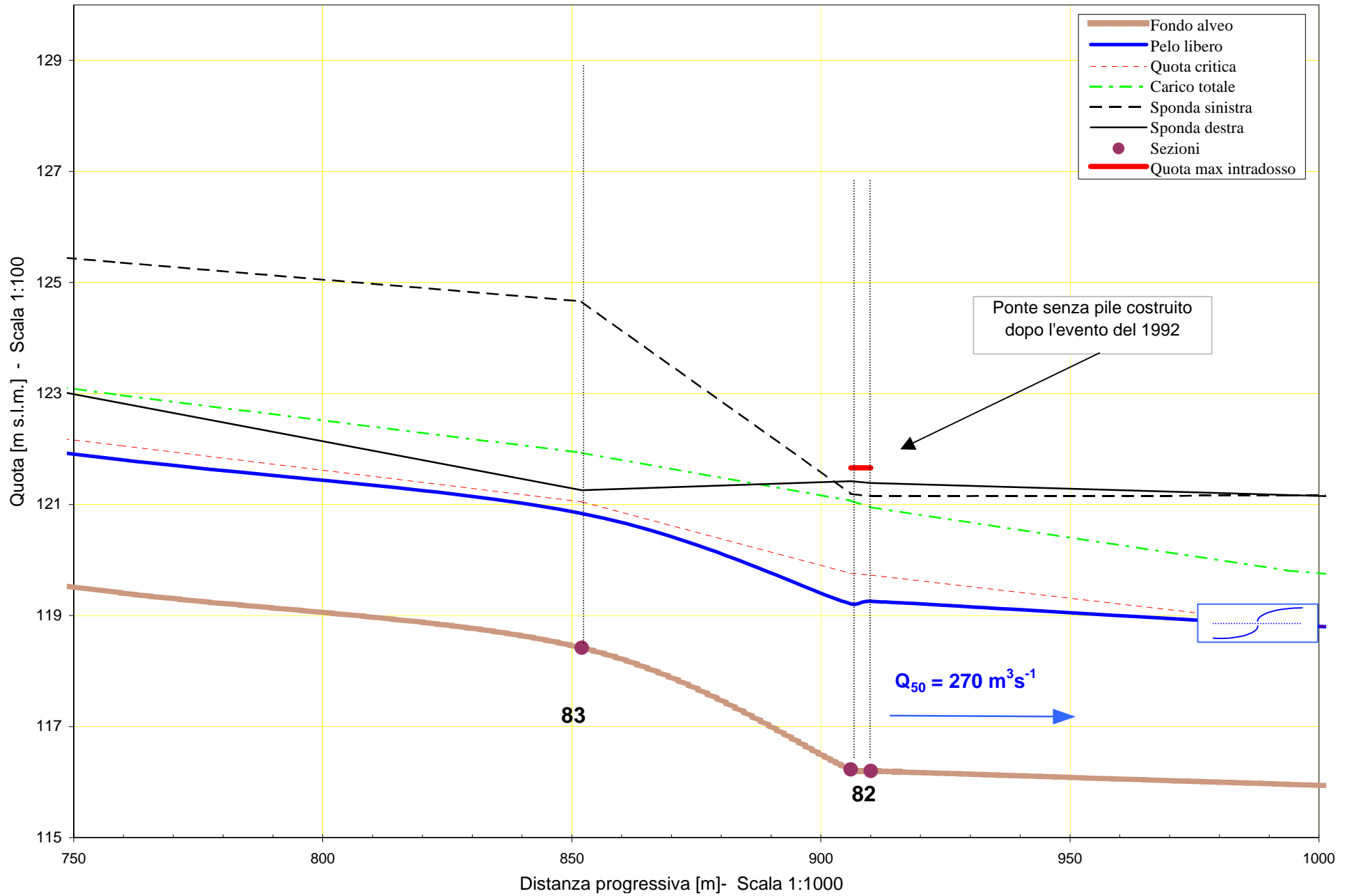
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



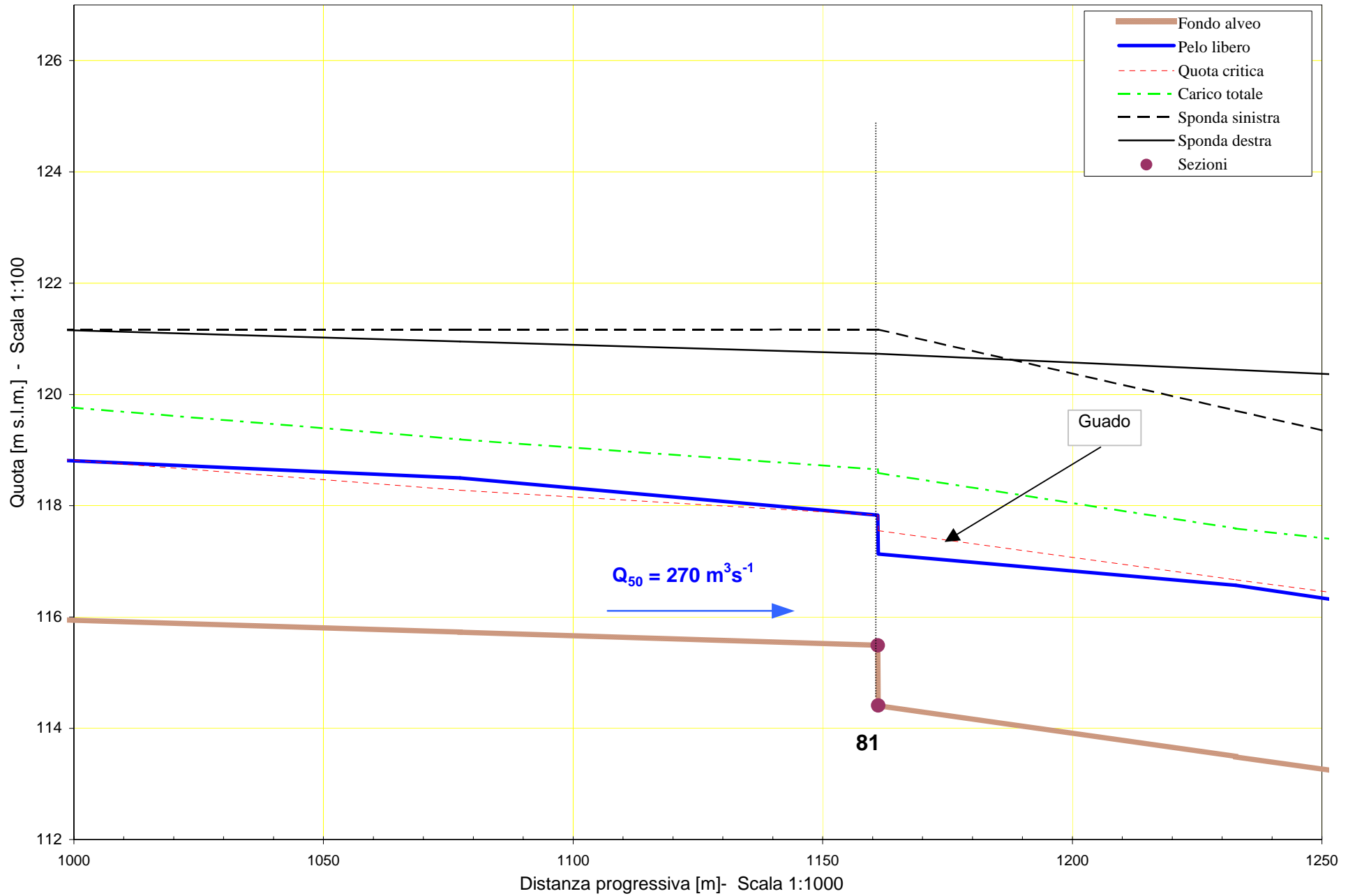
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



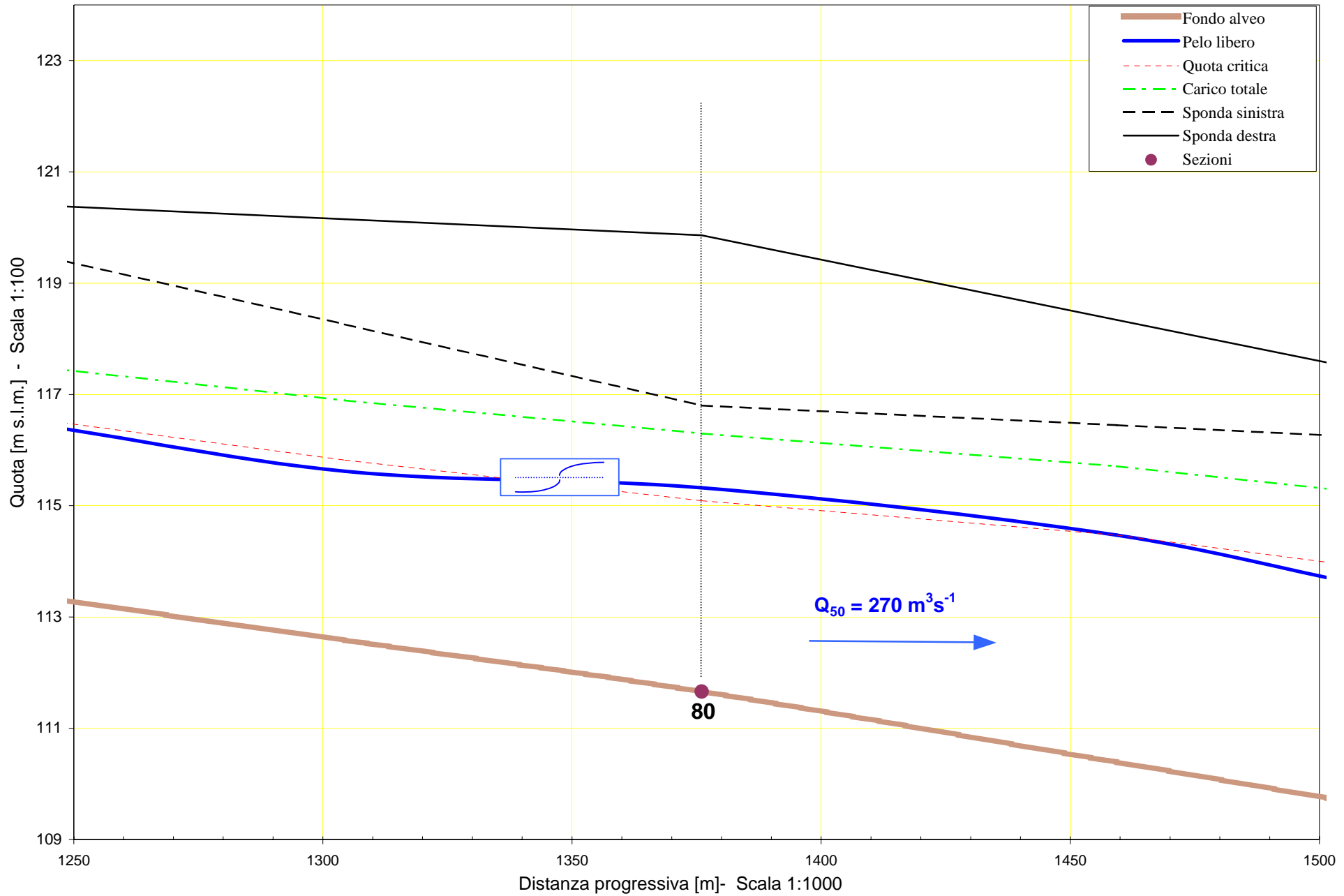
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



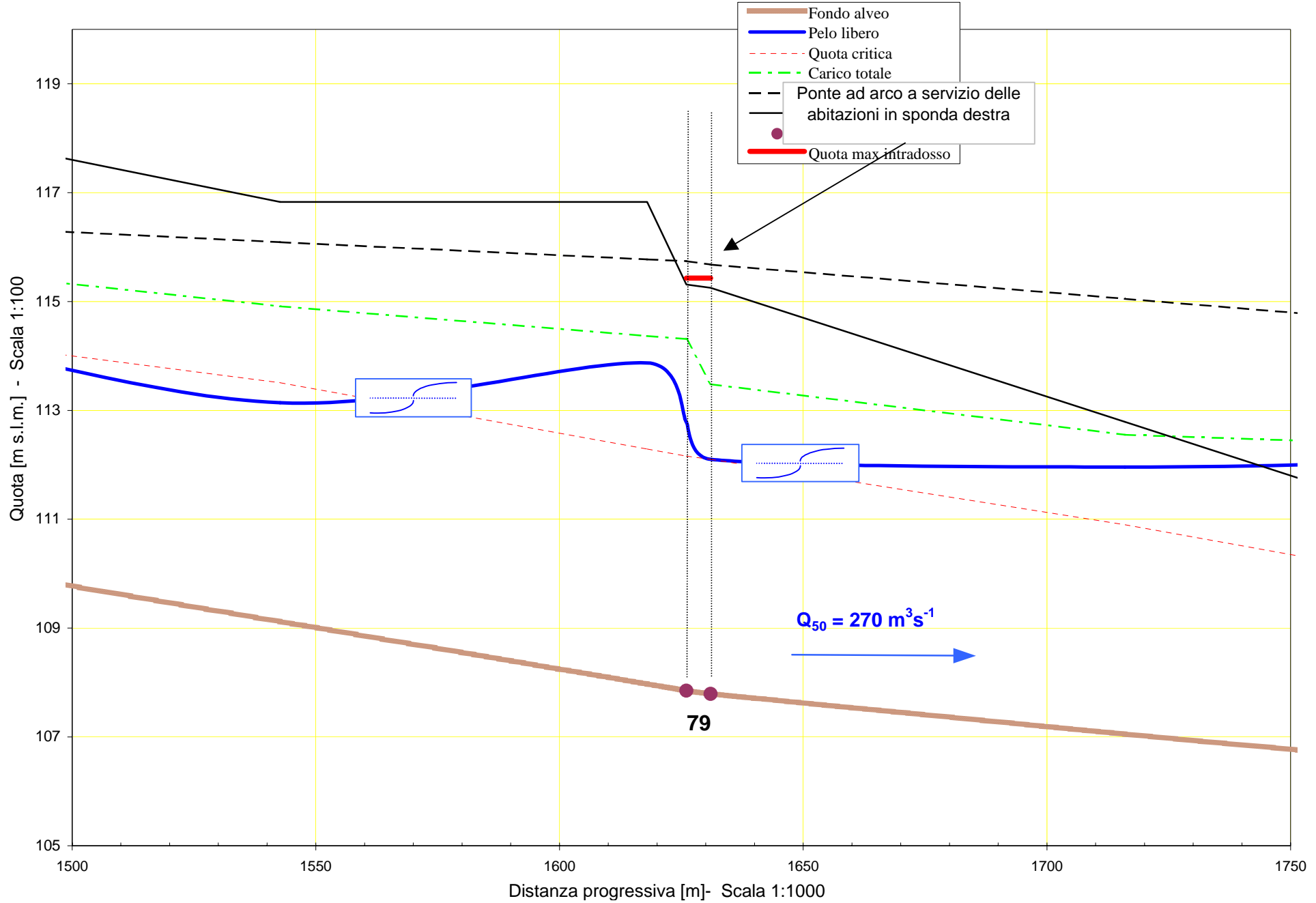
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



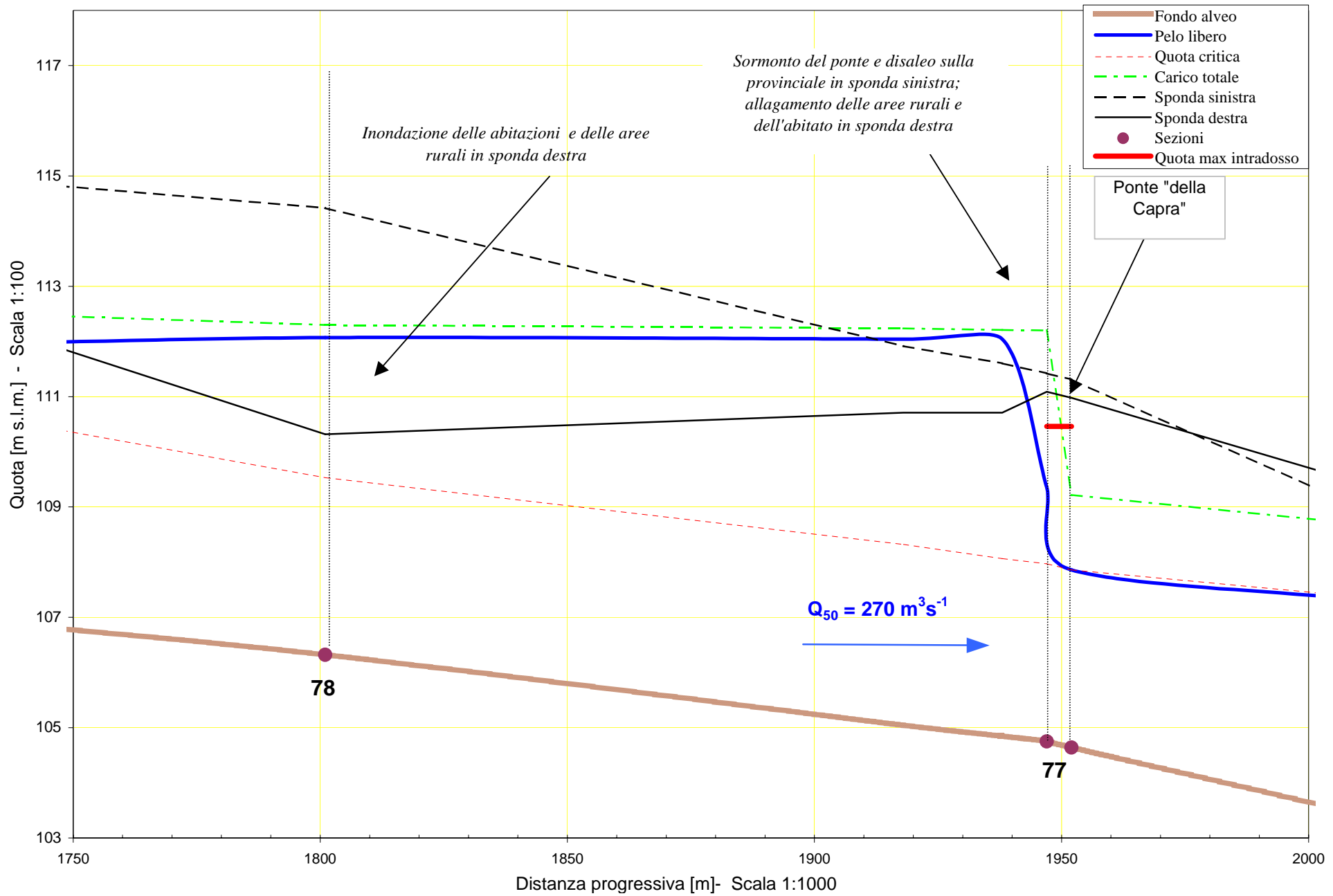
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



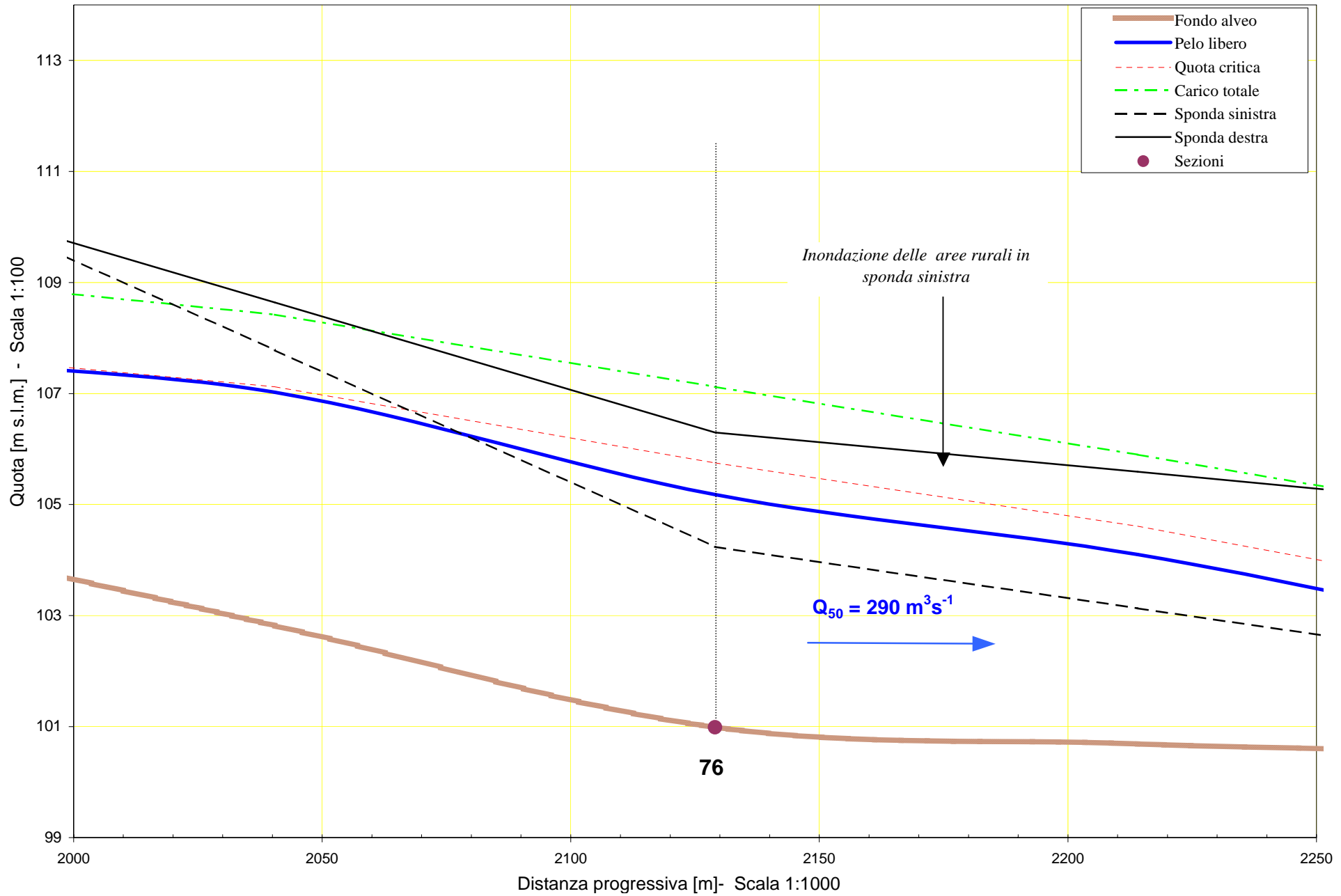
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



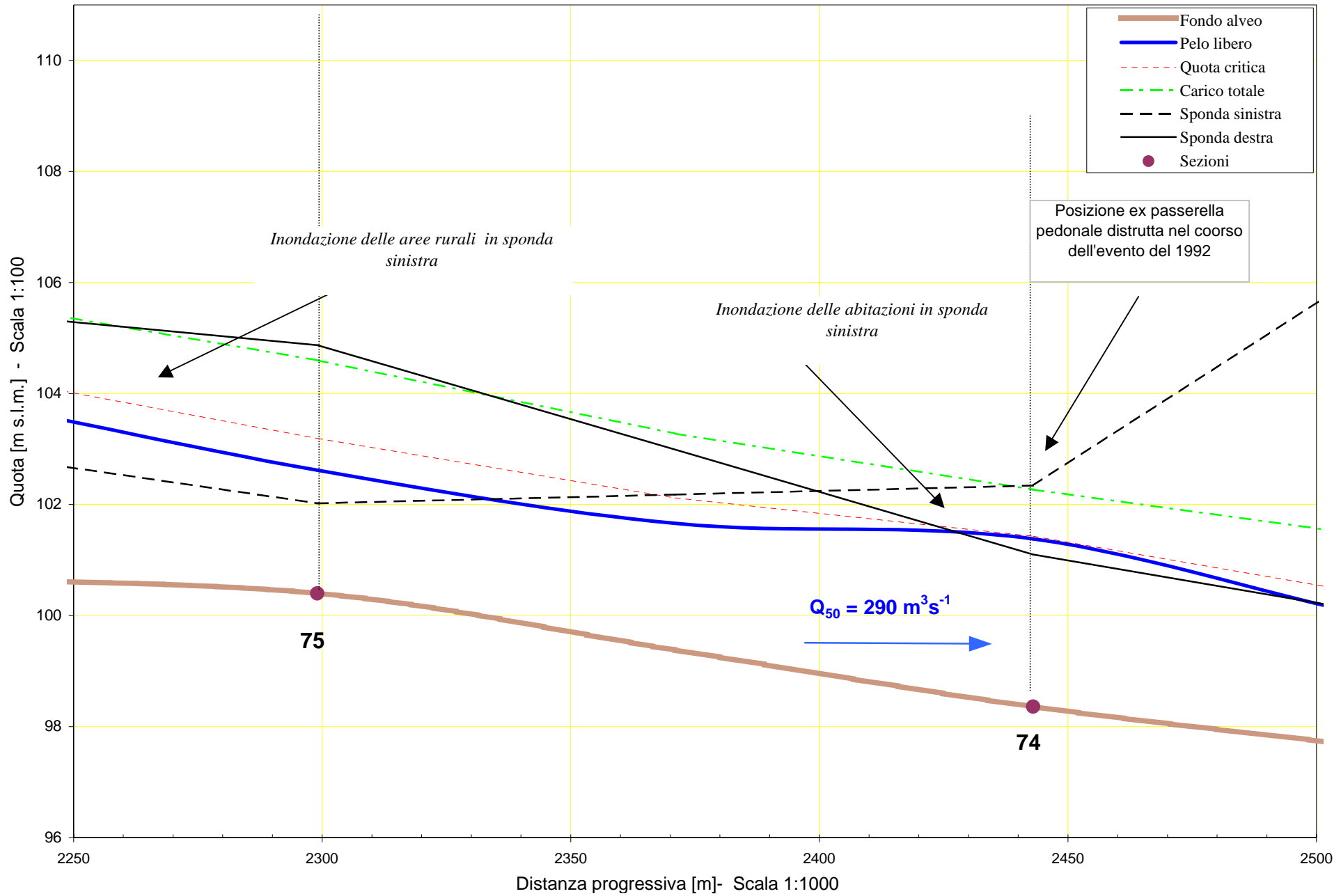
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 50 anni



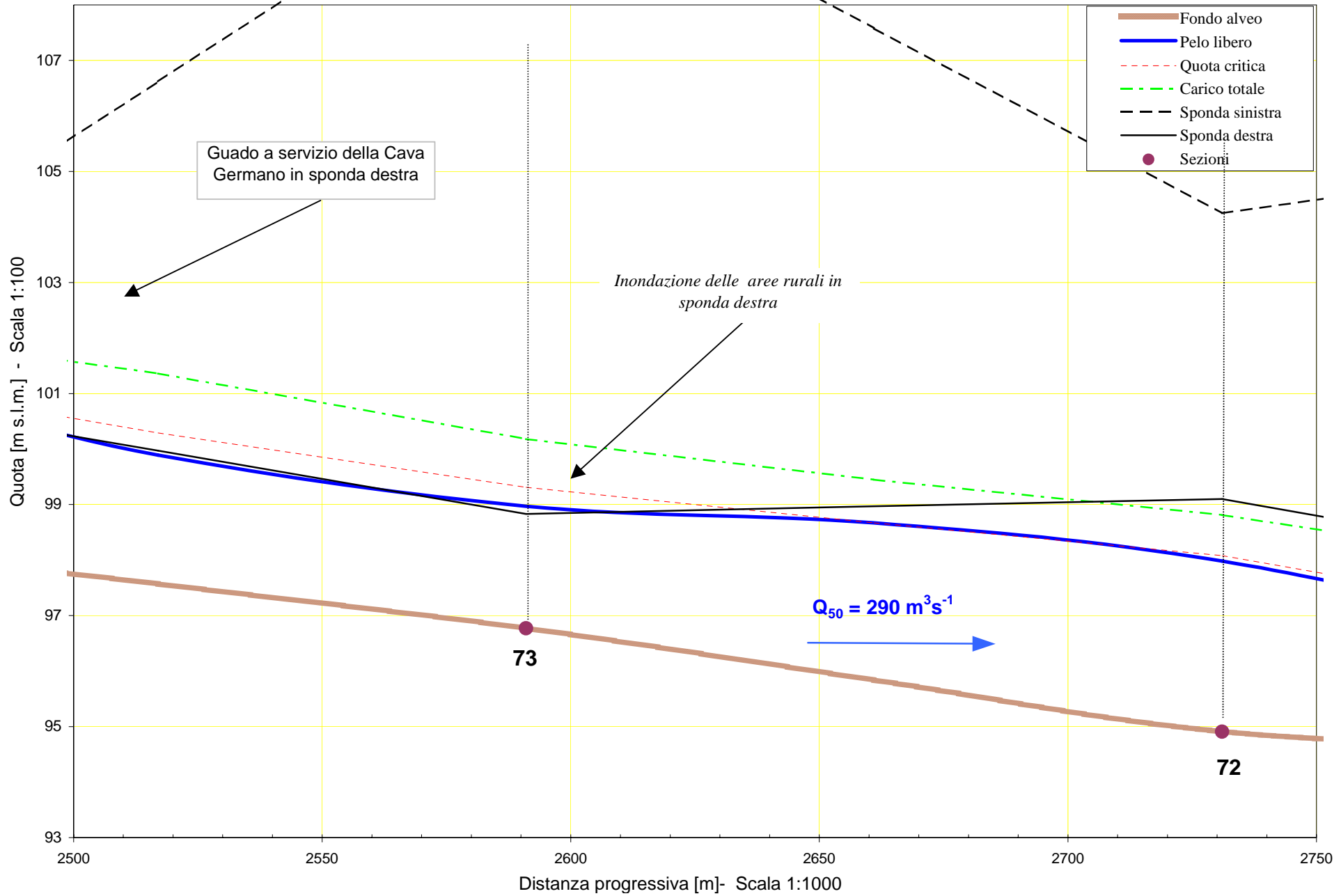
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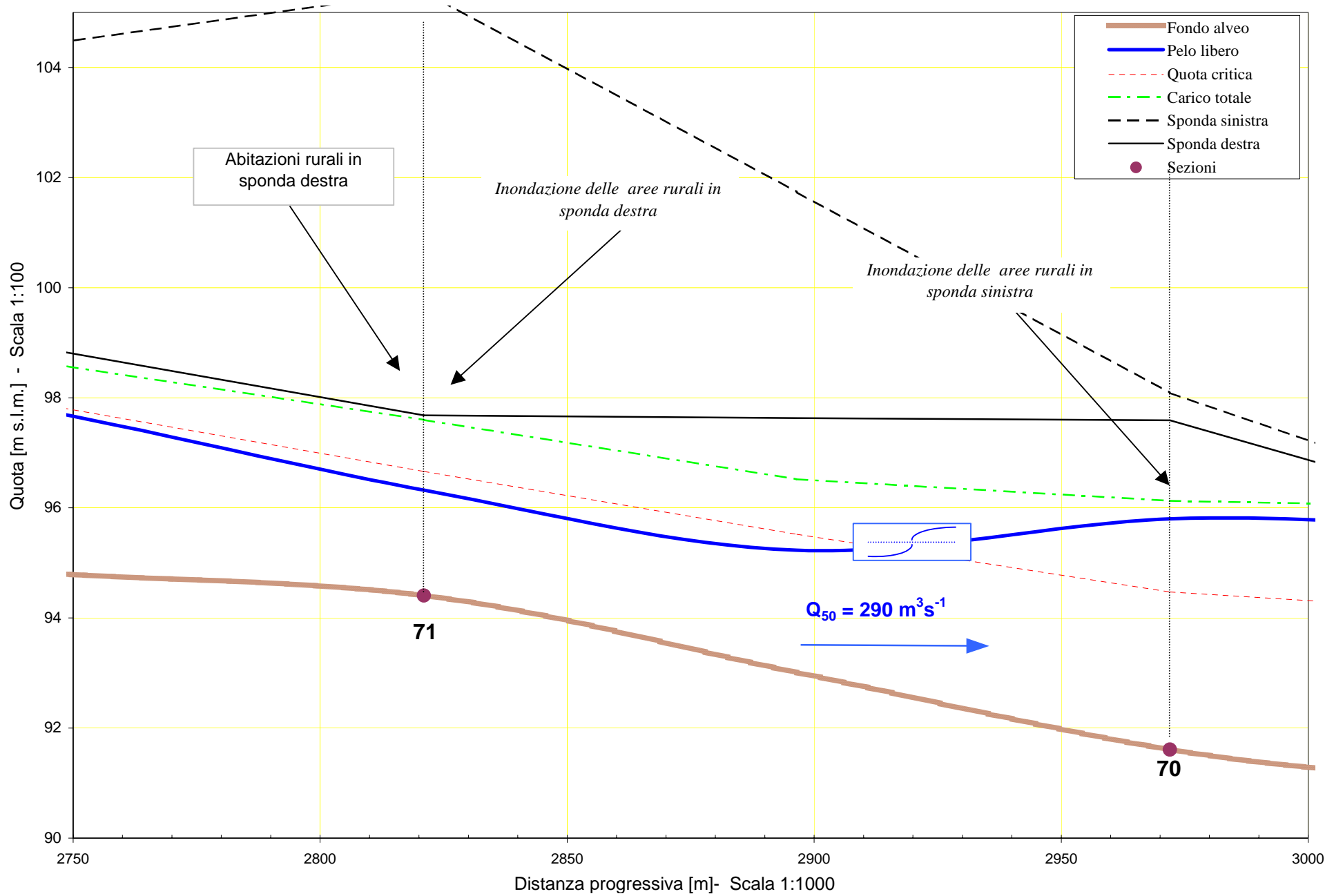
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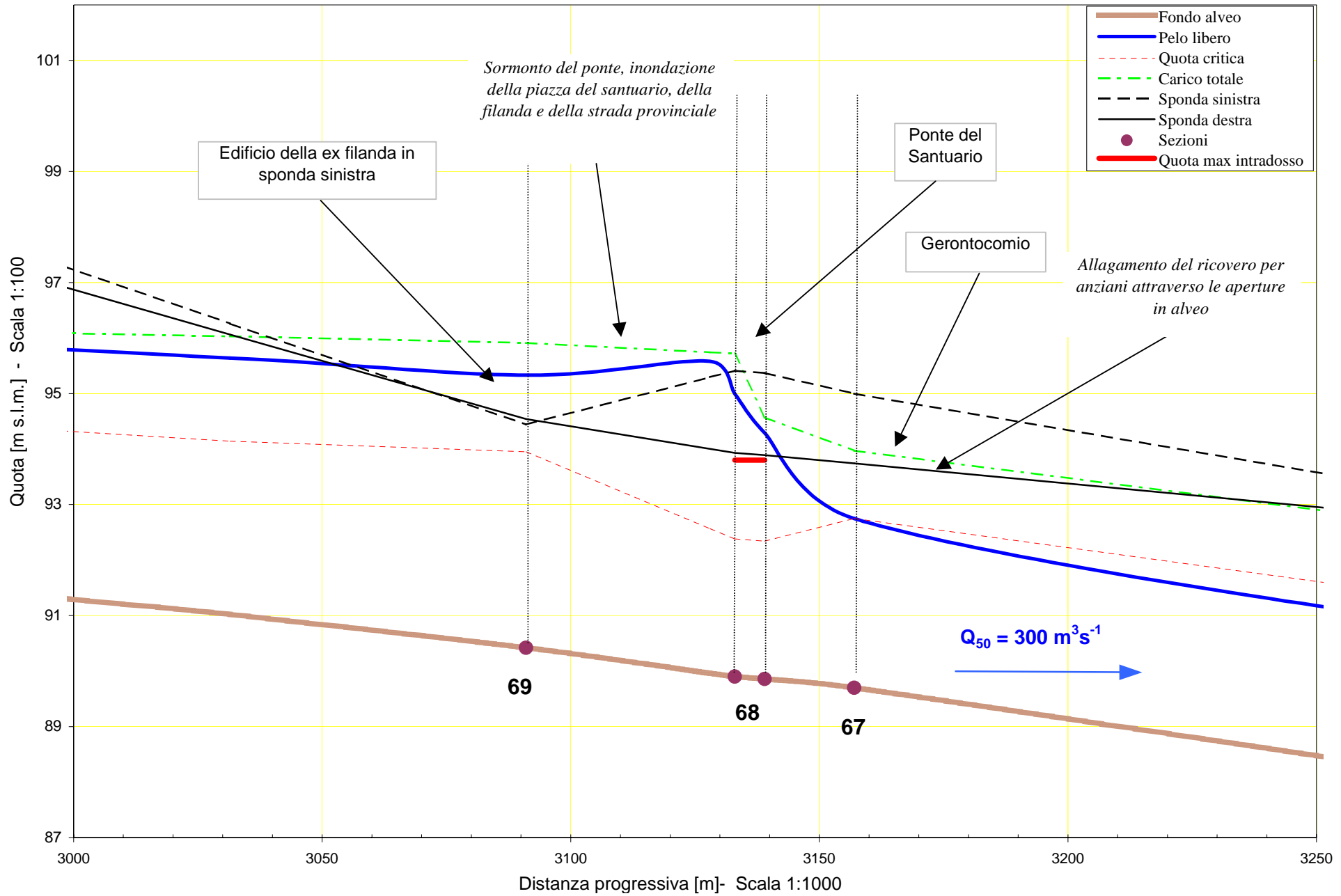
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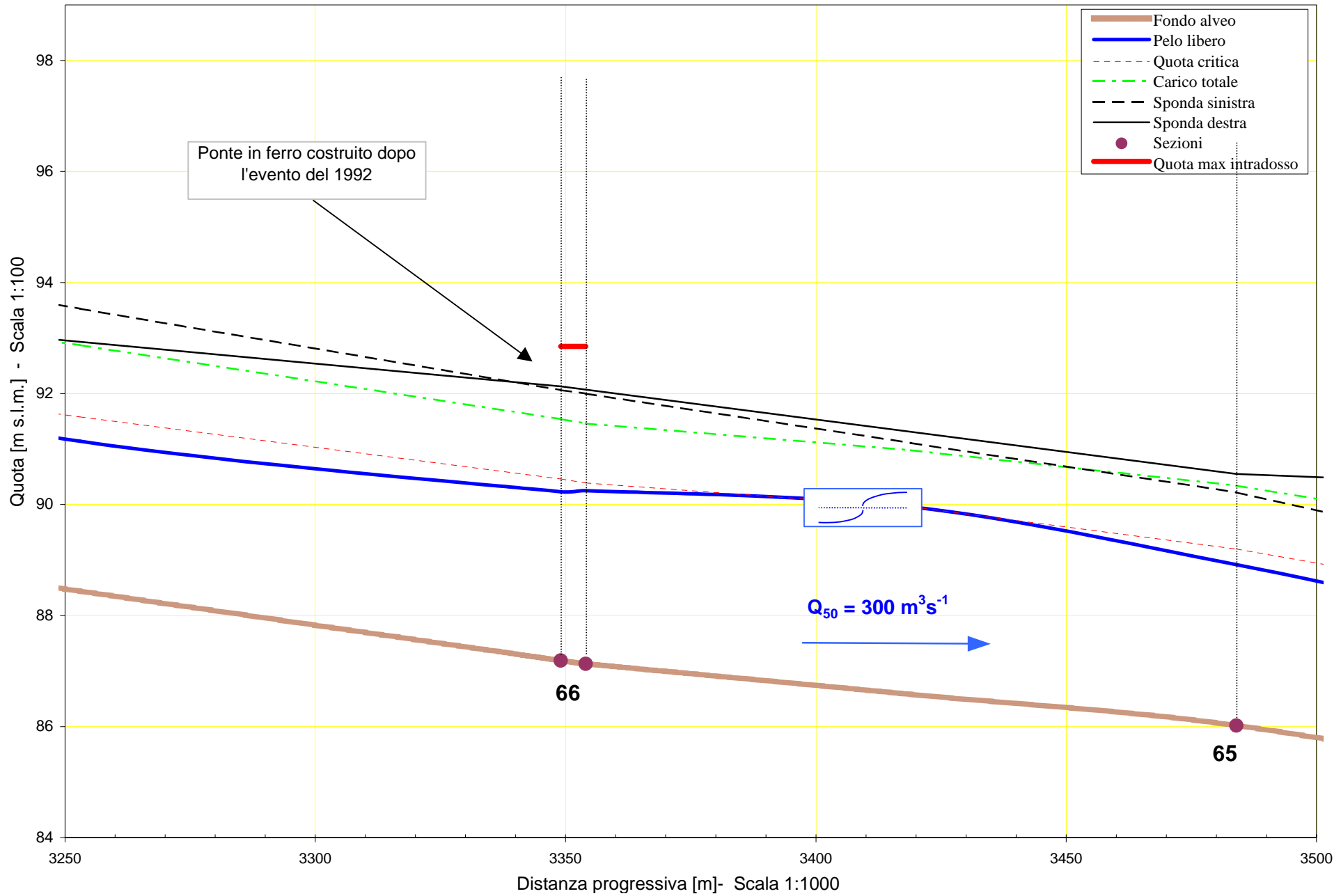
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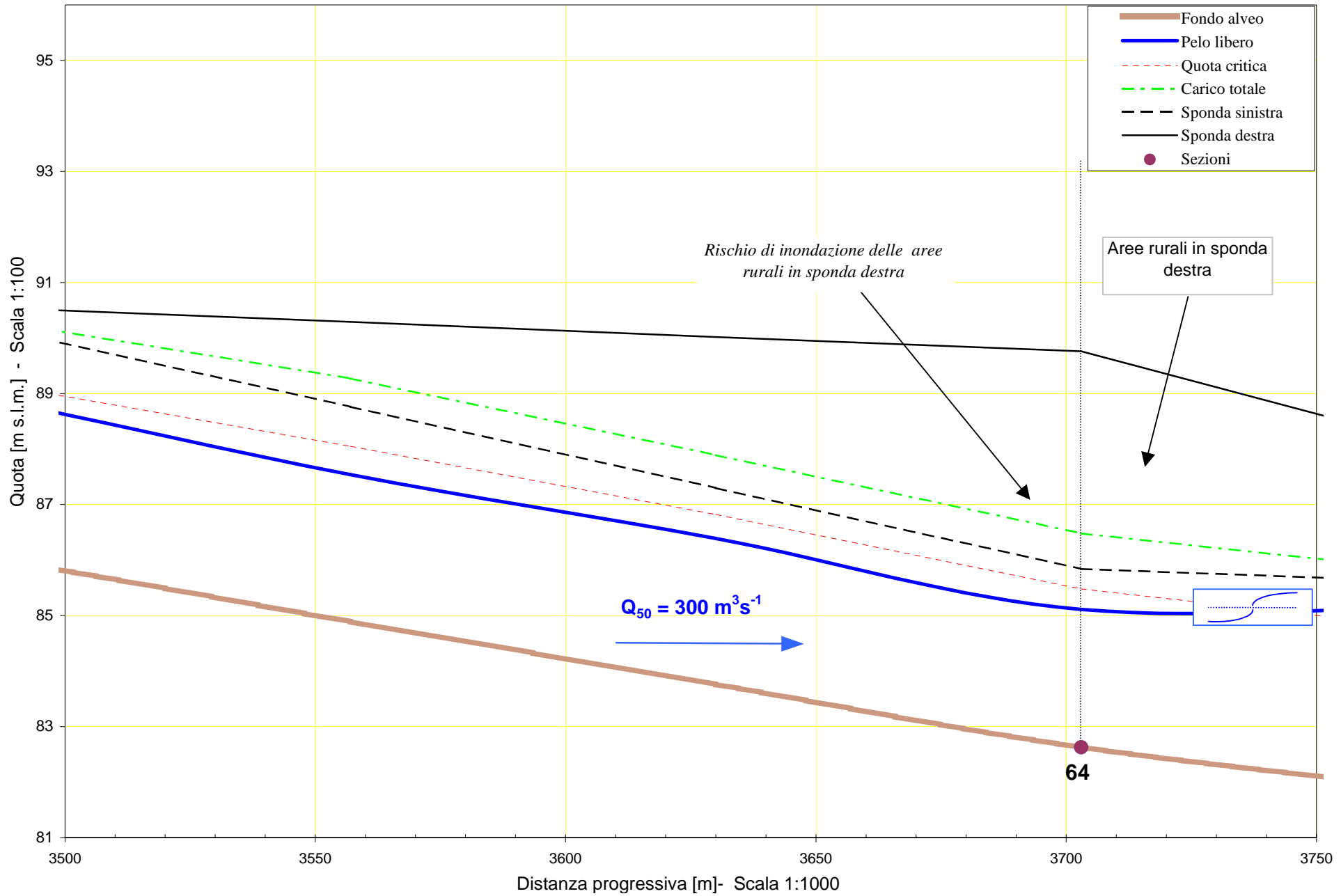
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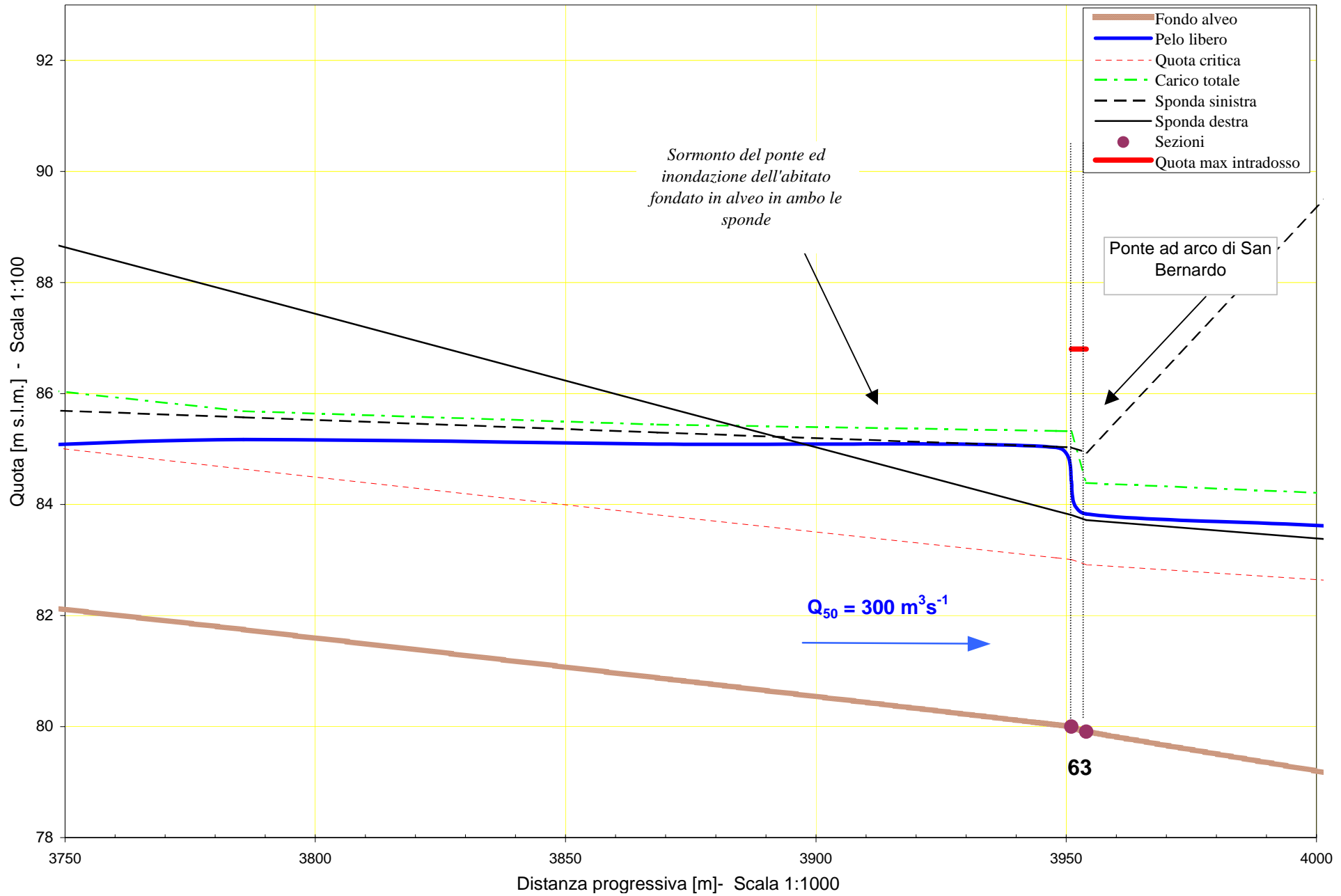
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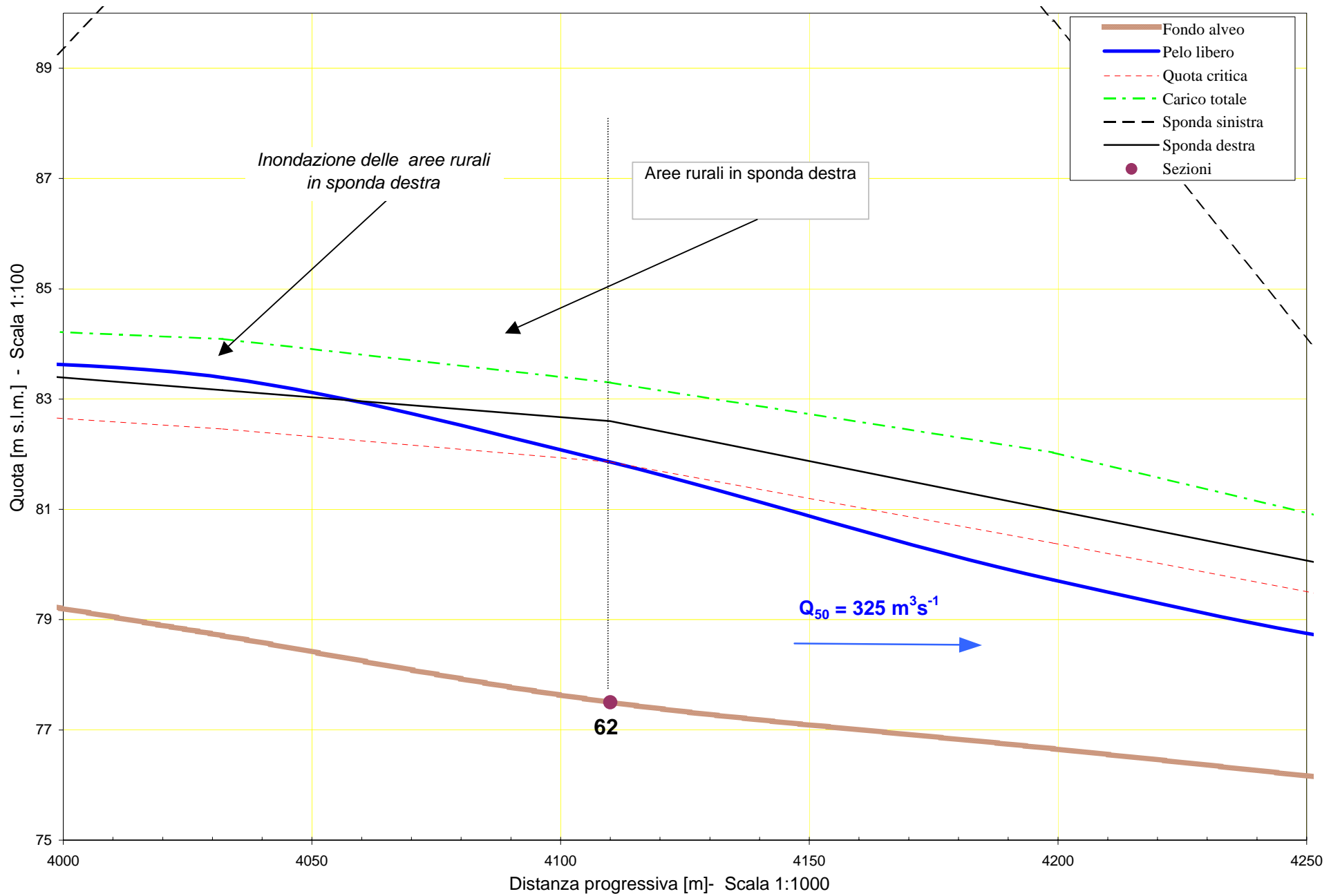
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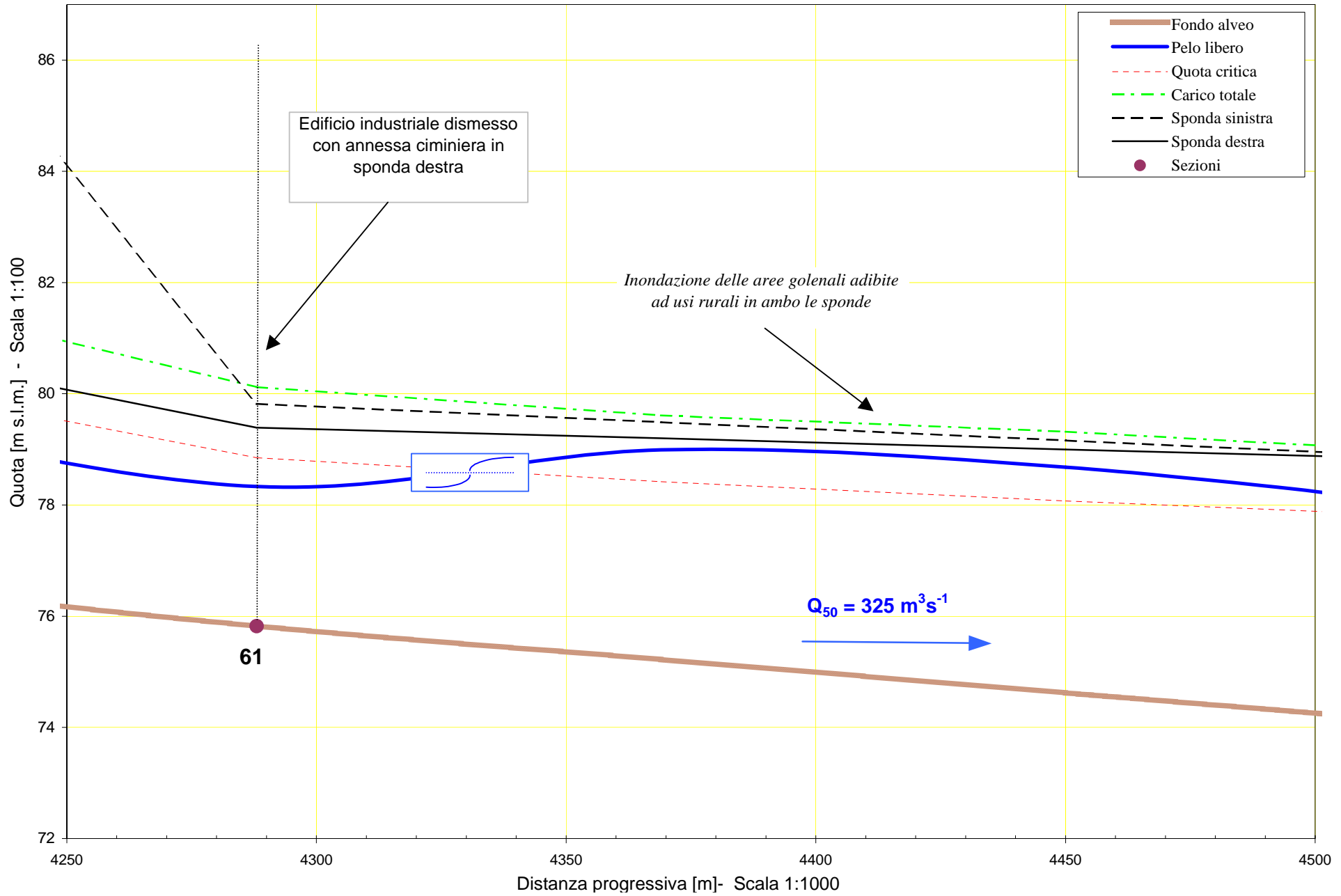
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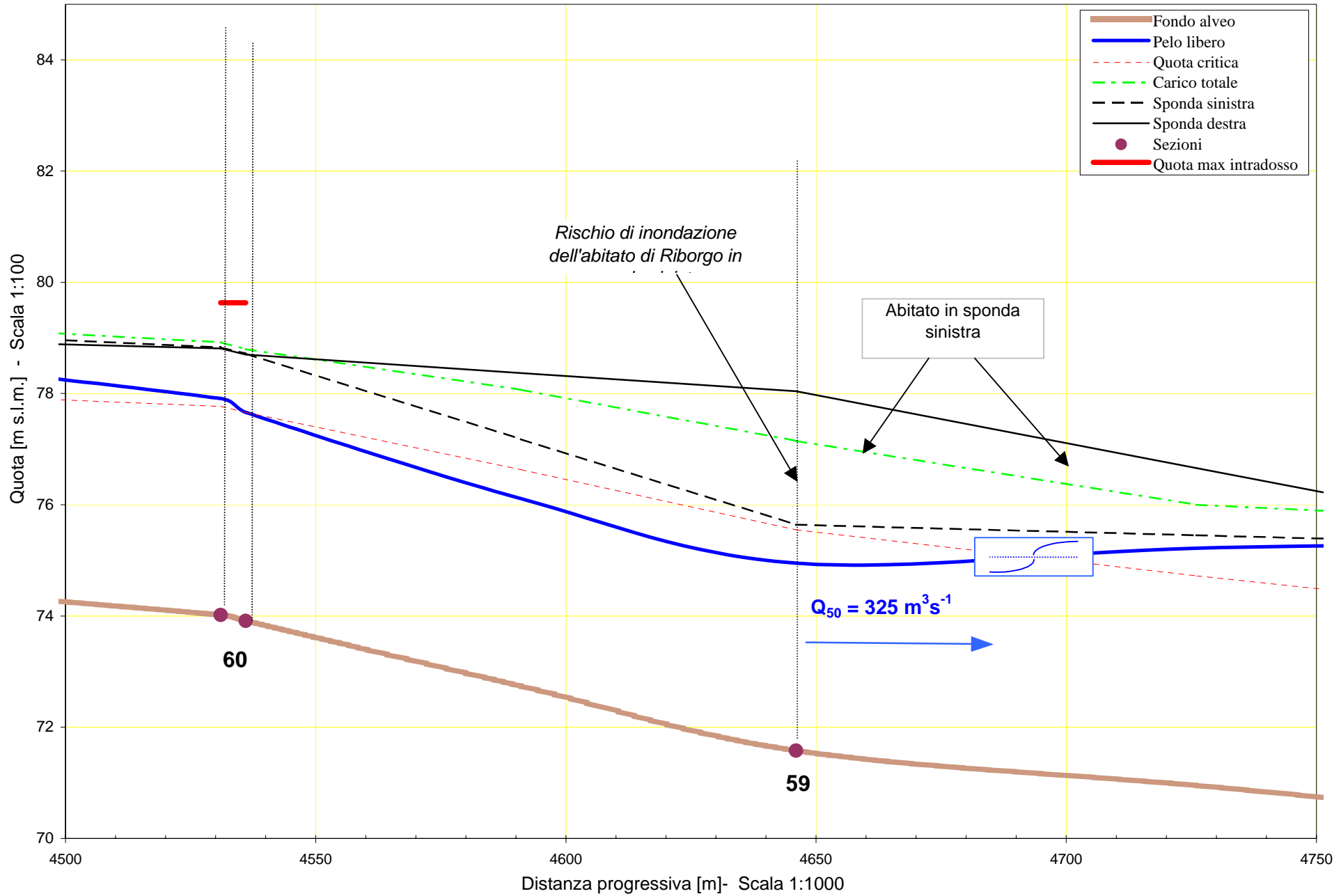
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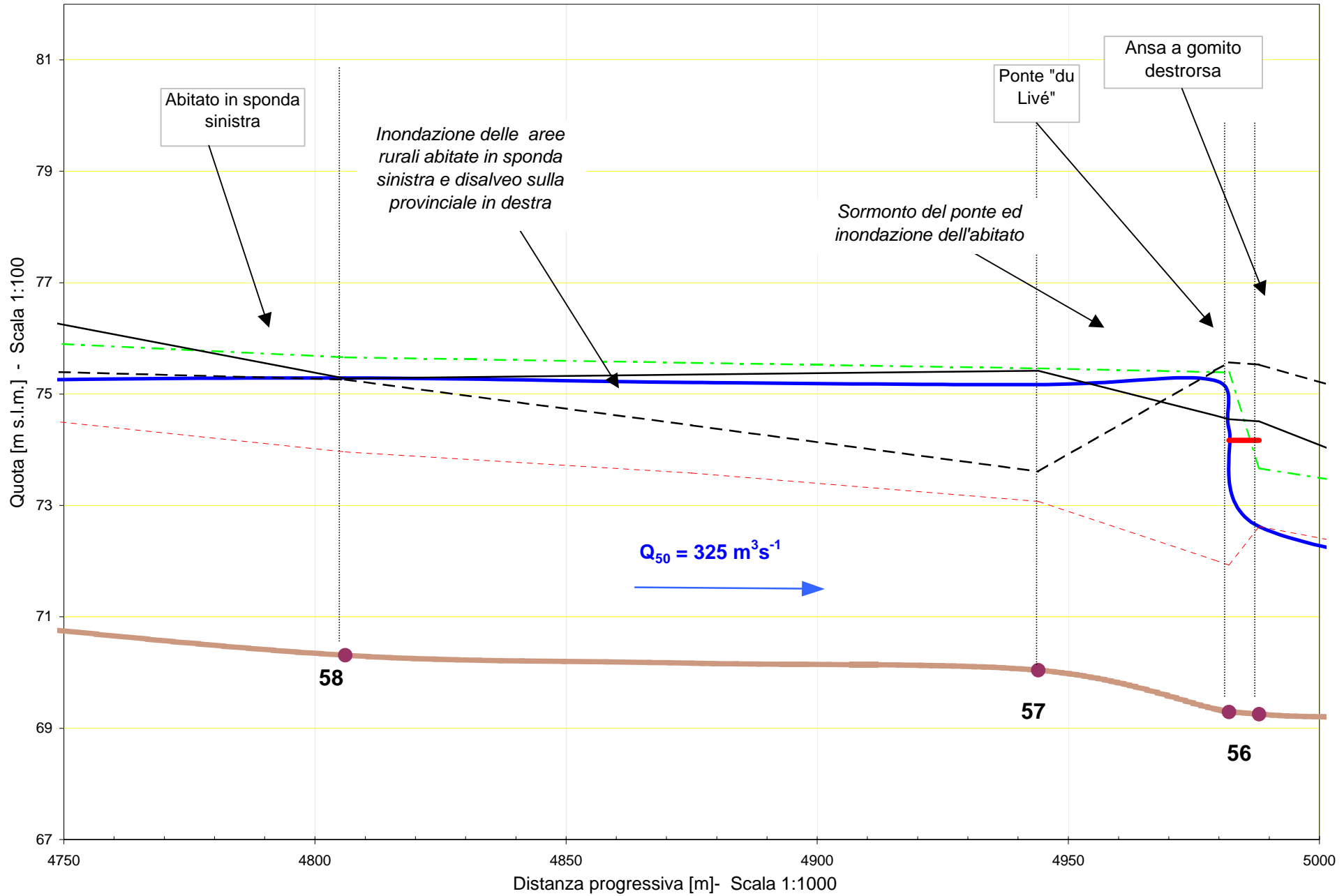
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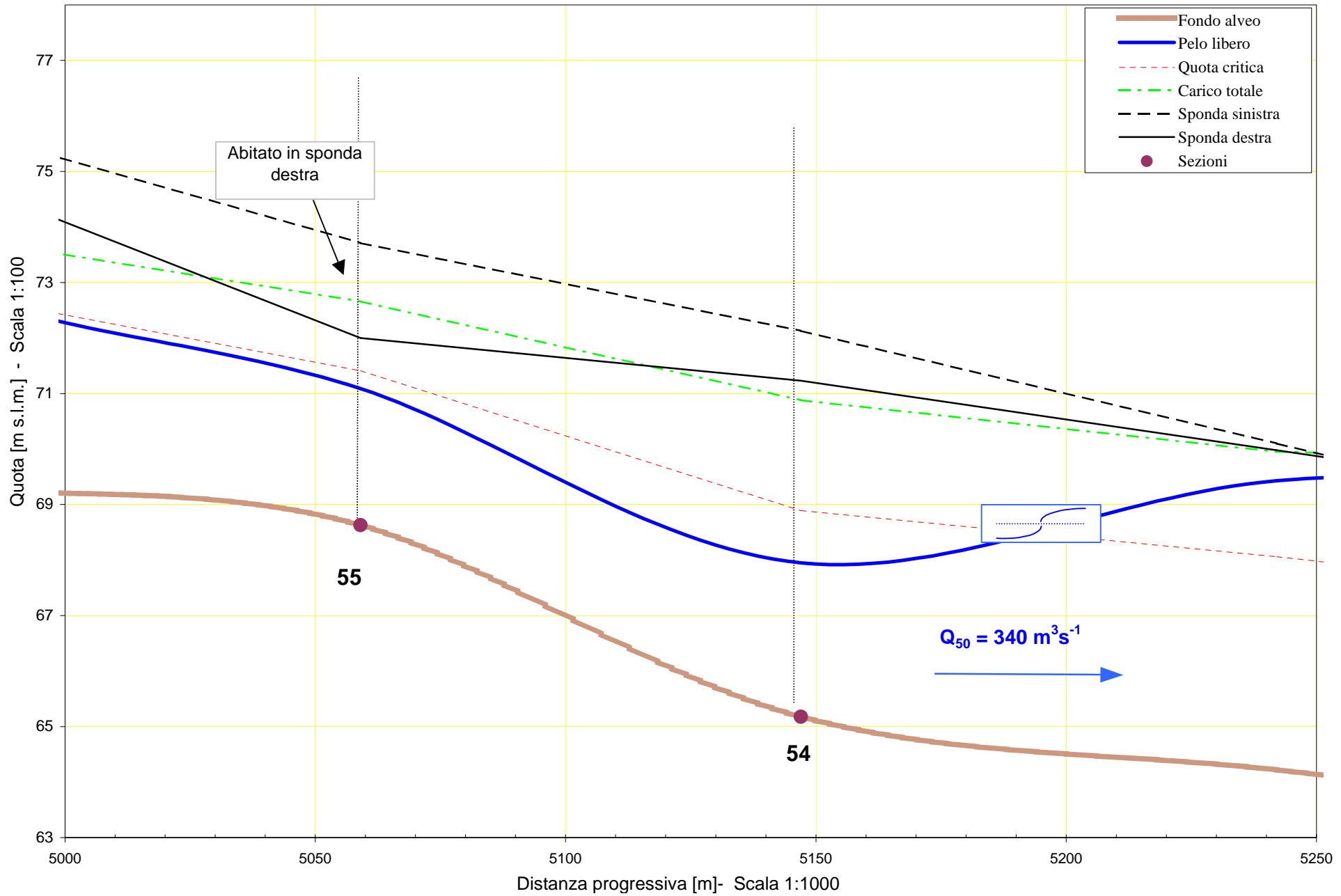
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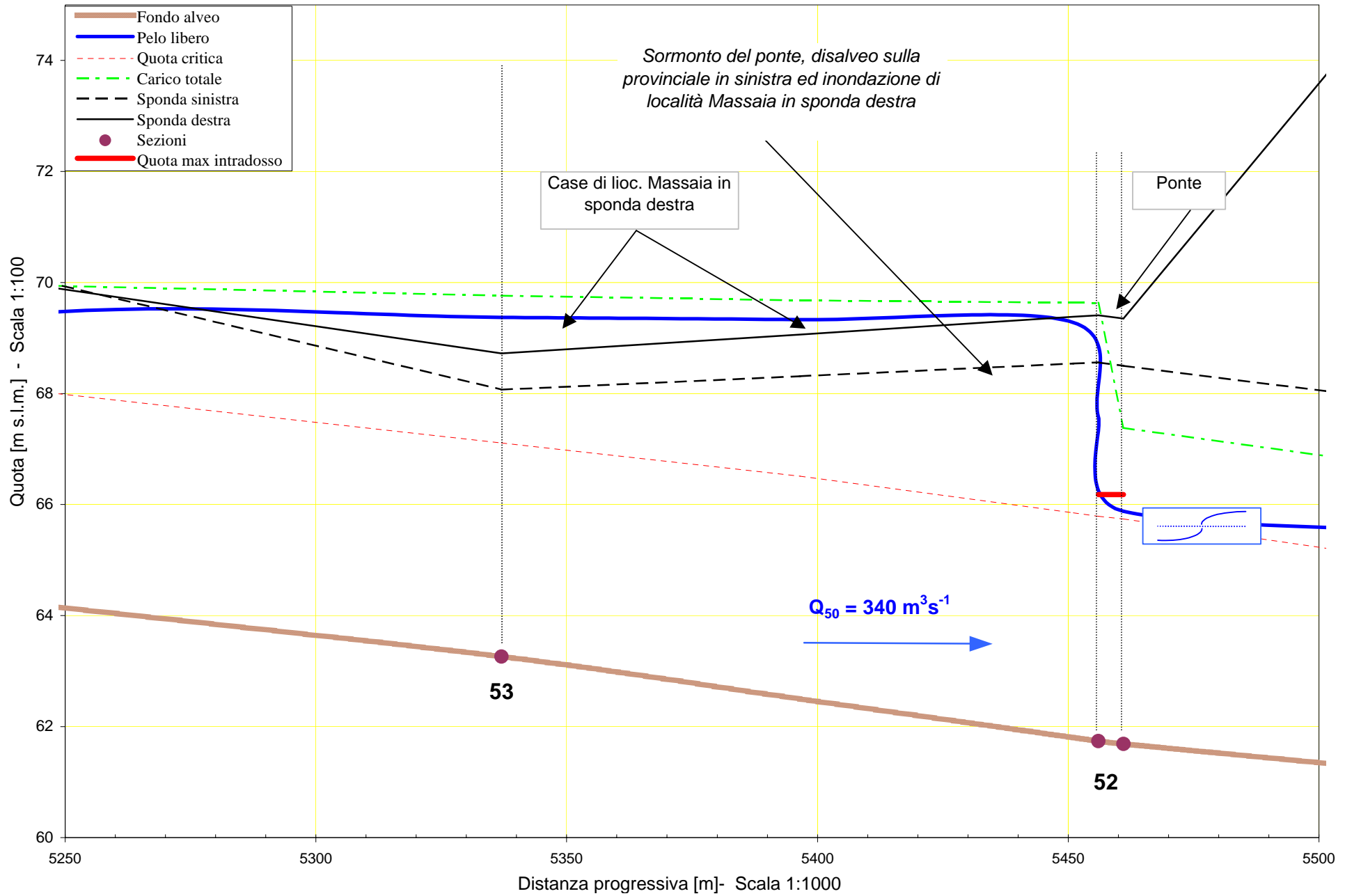
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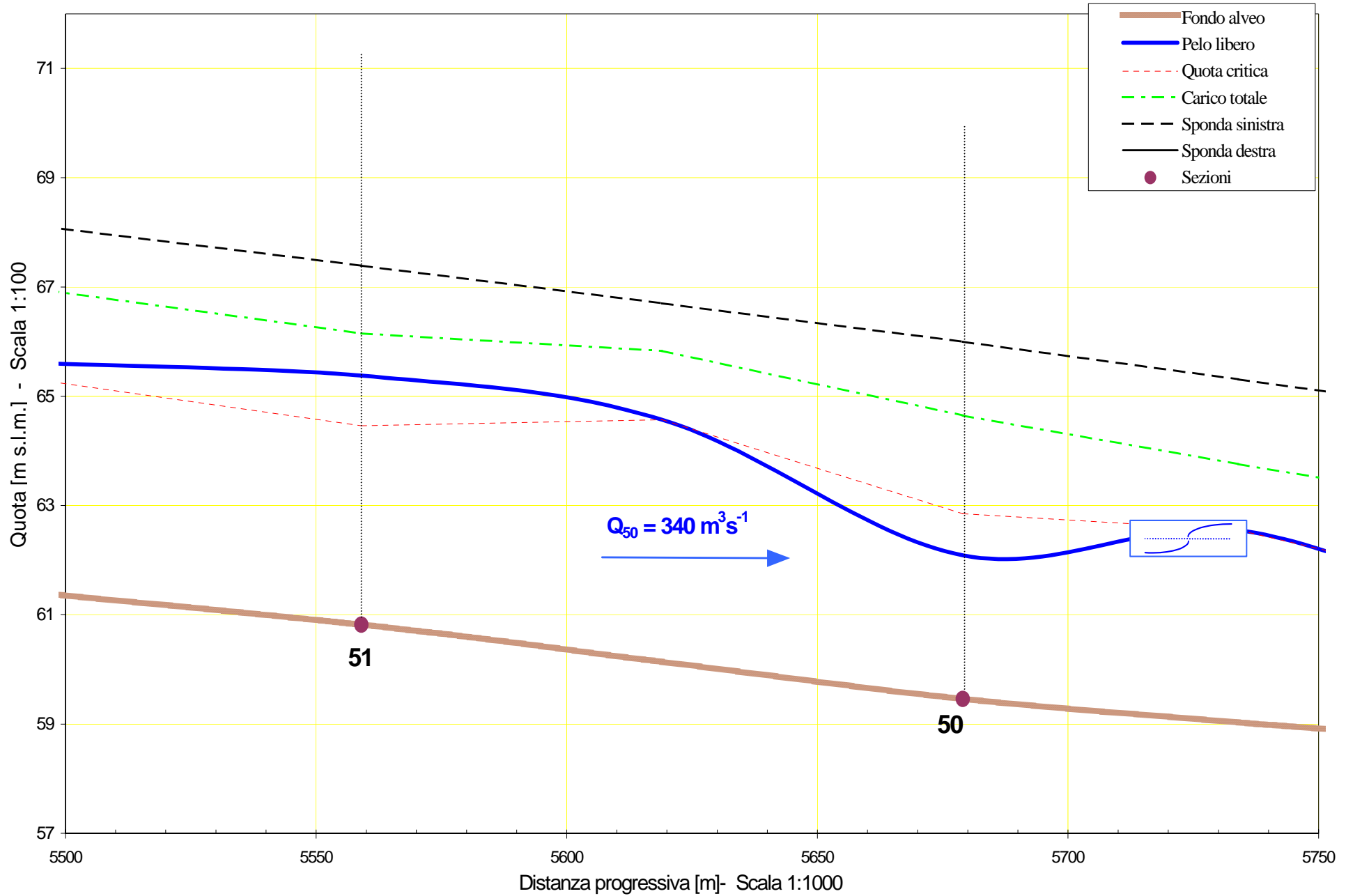
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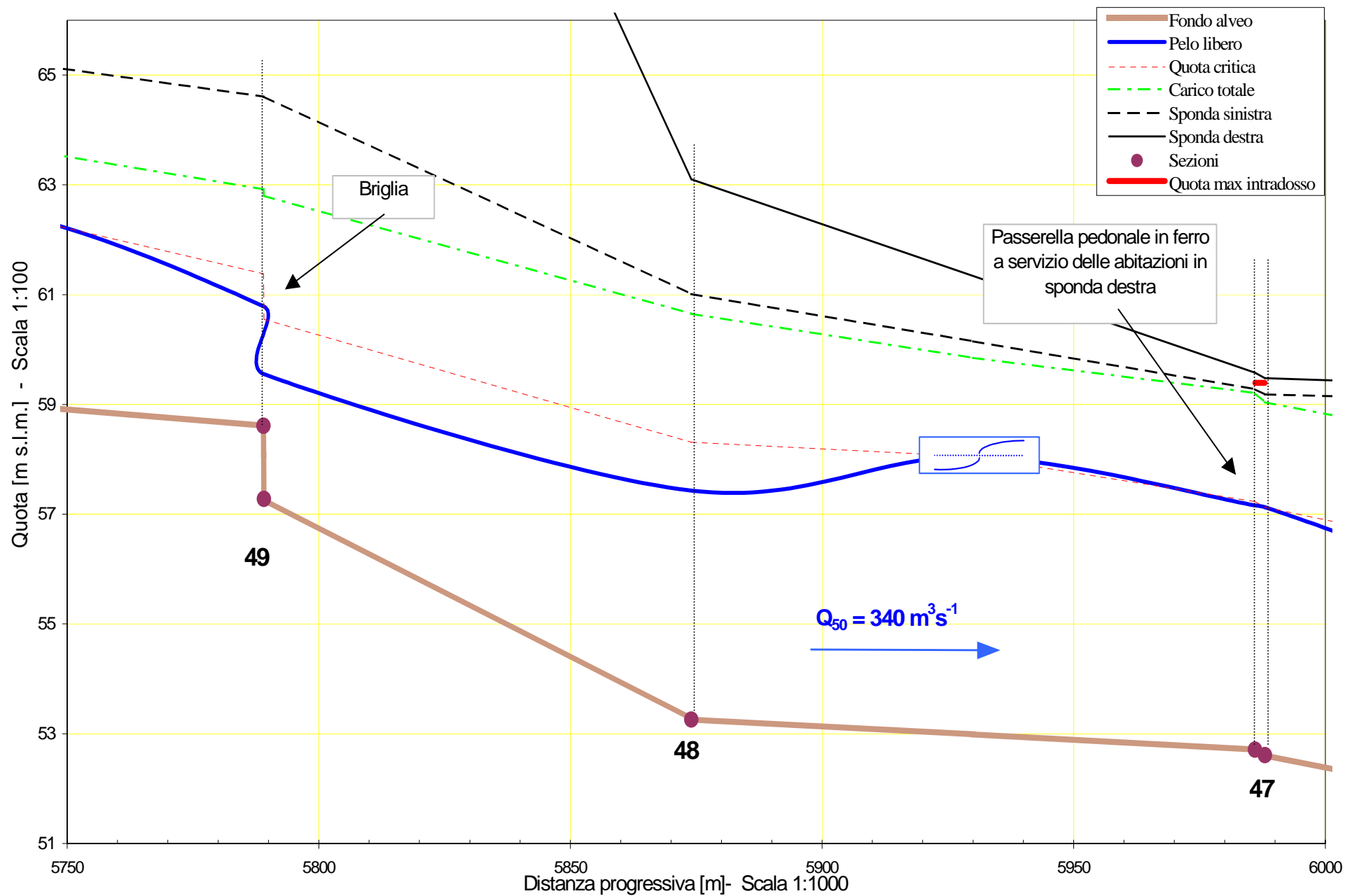
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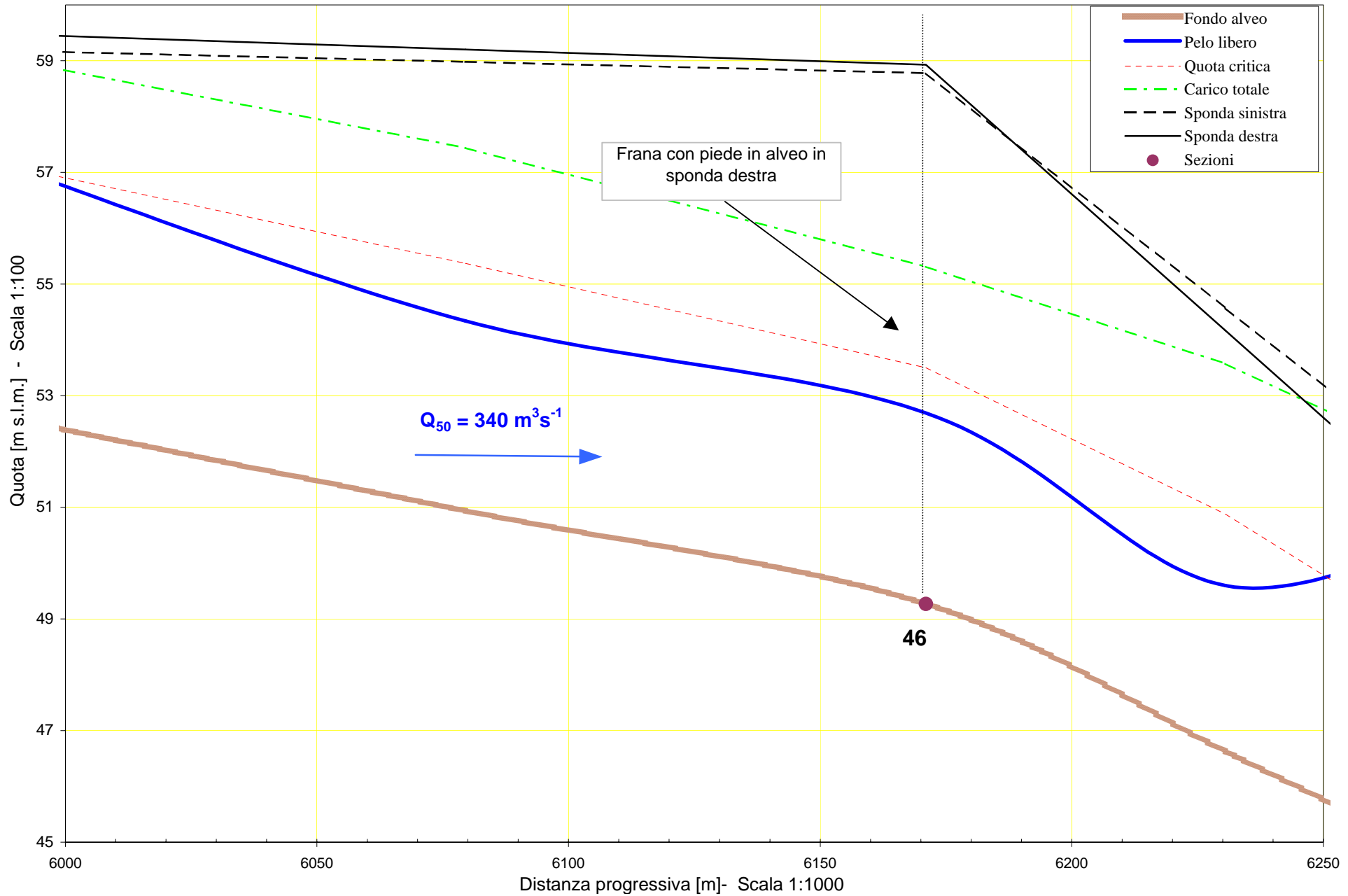
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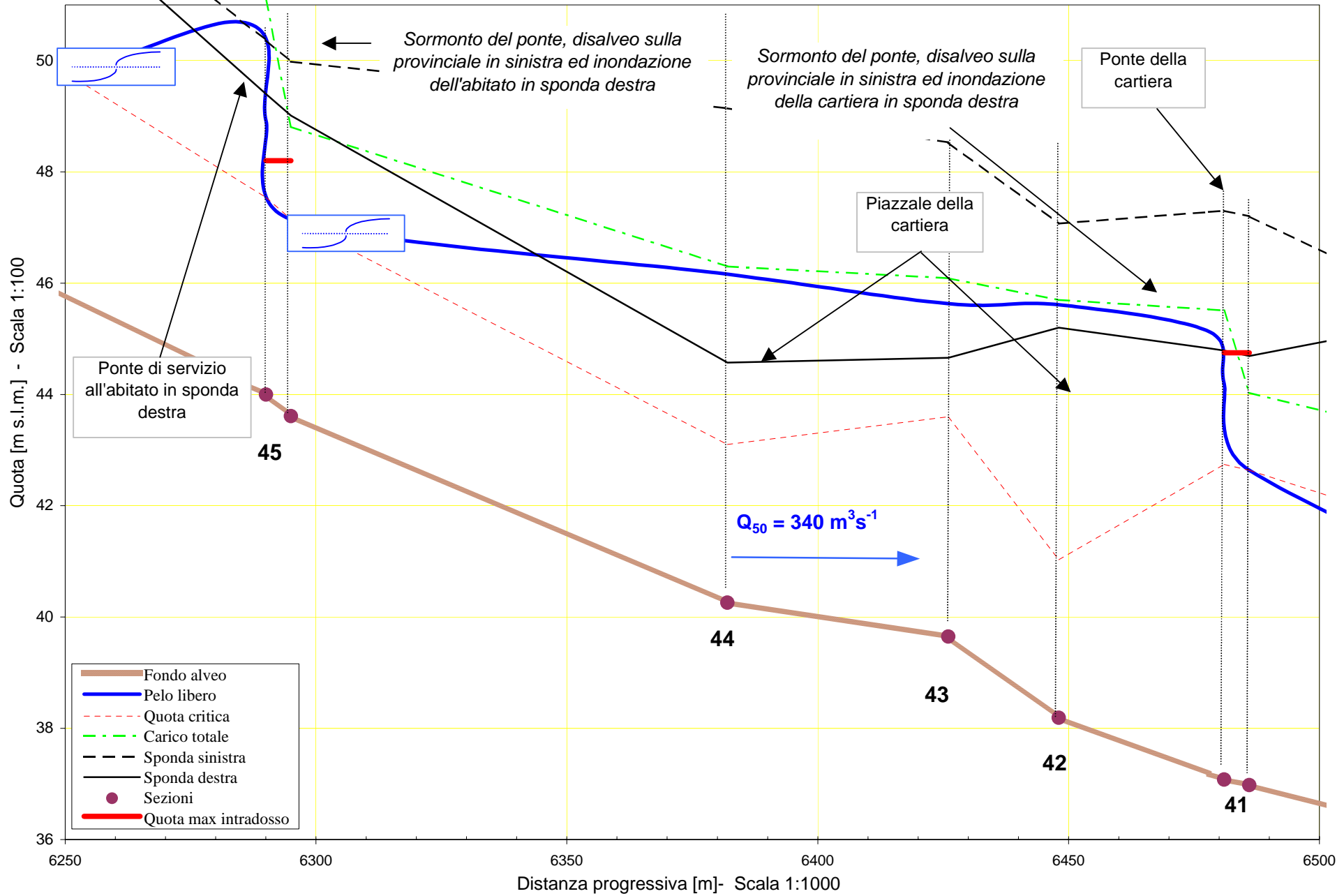
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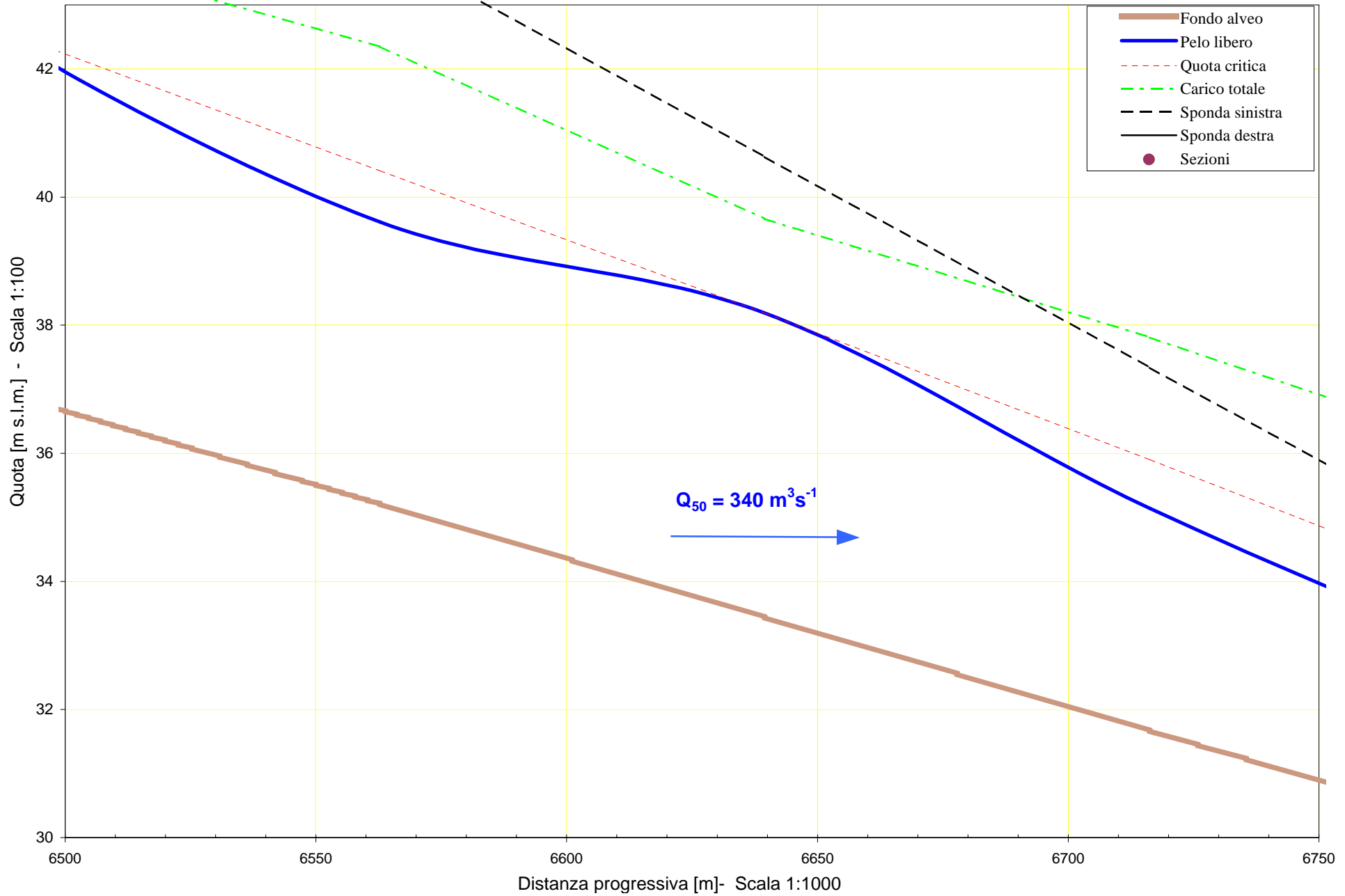
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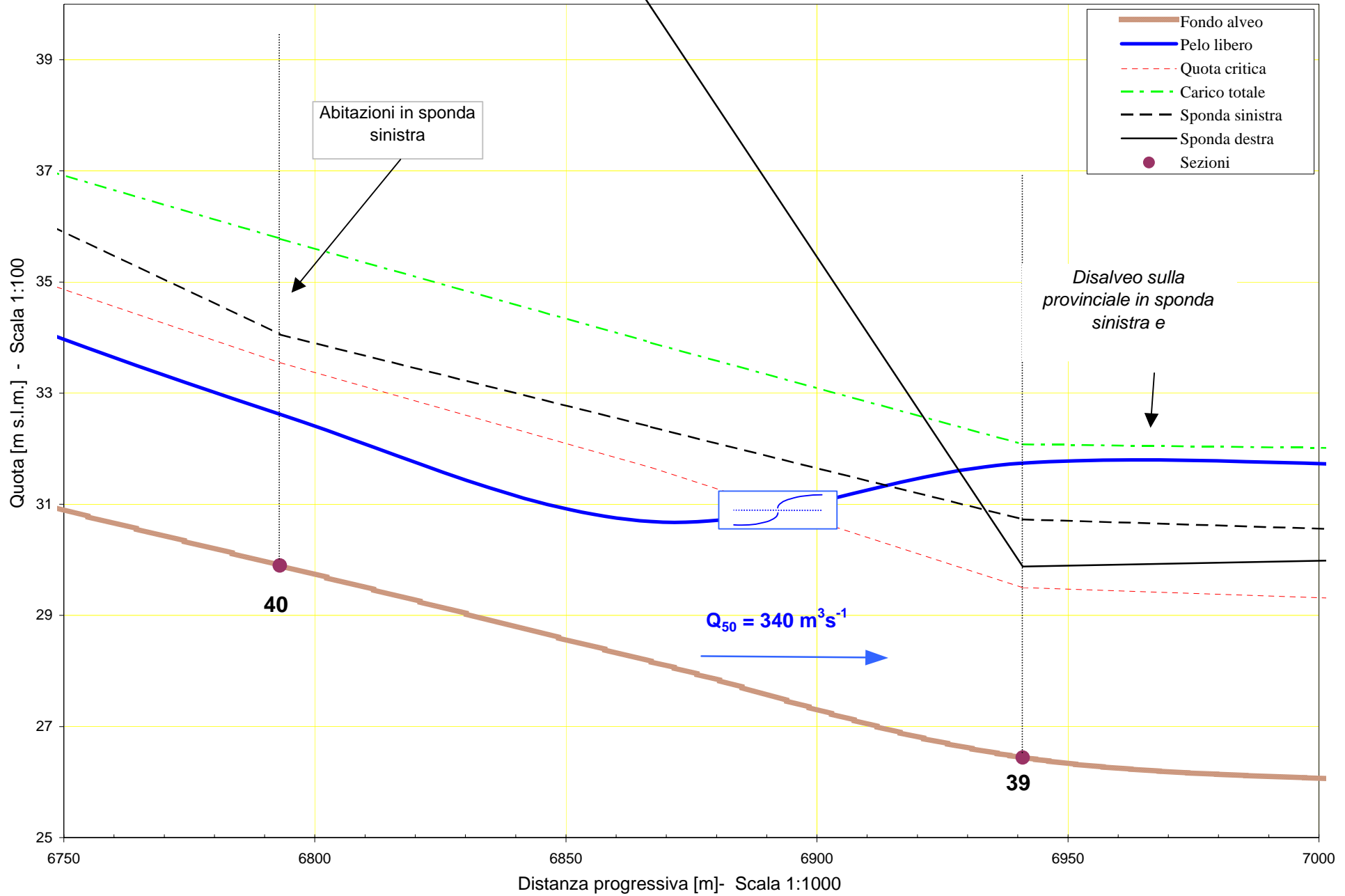
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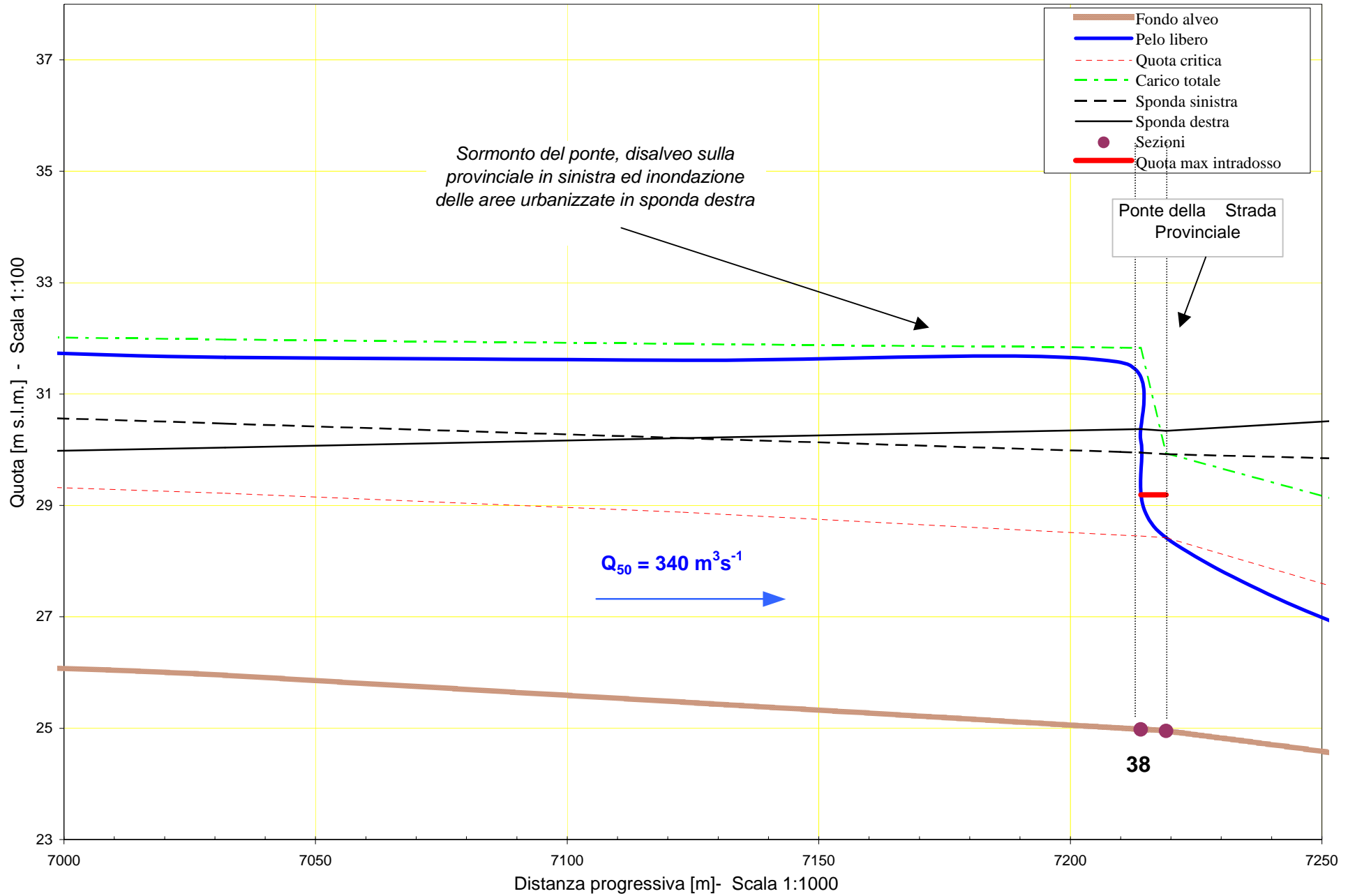
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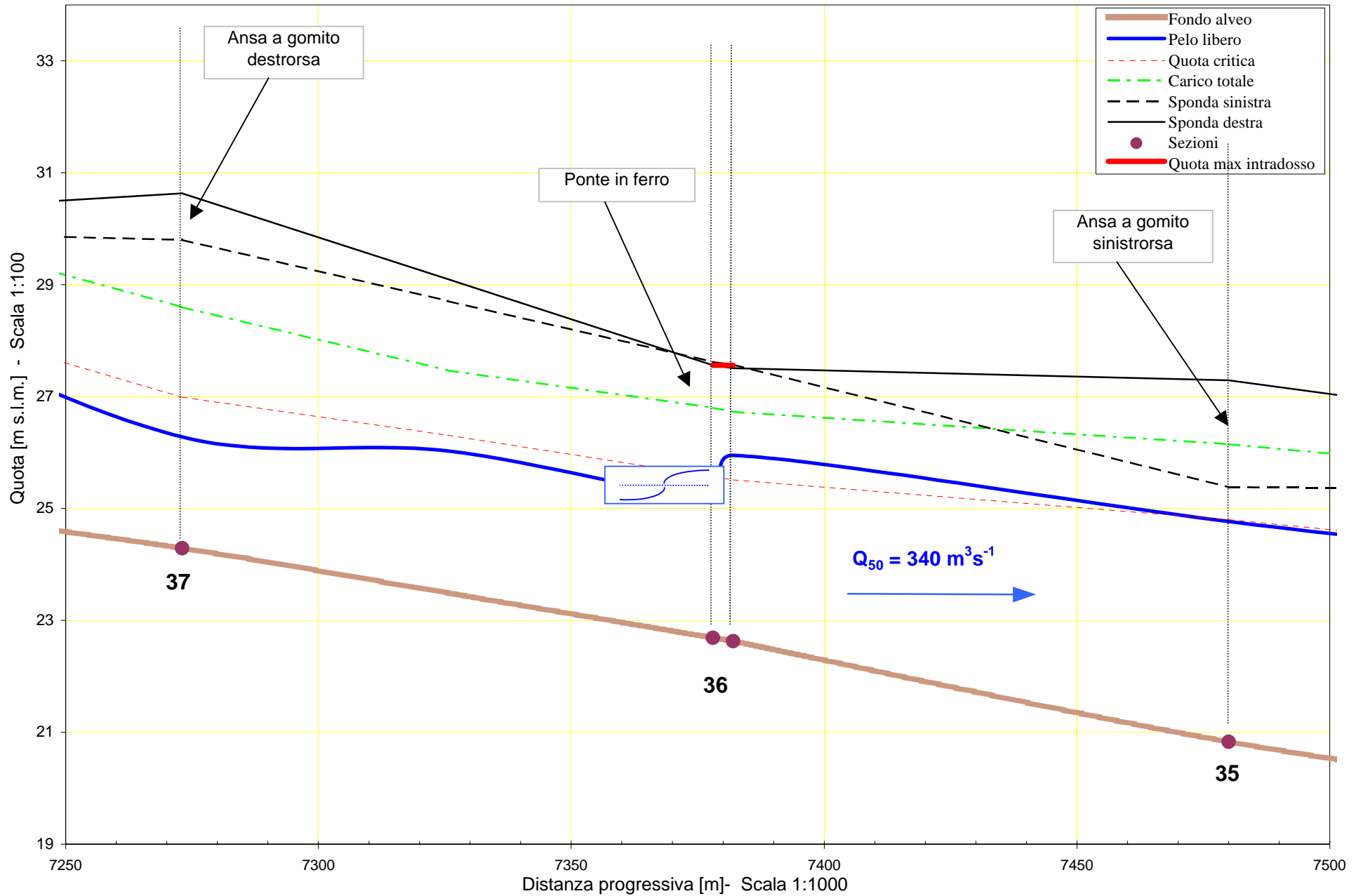
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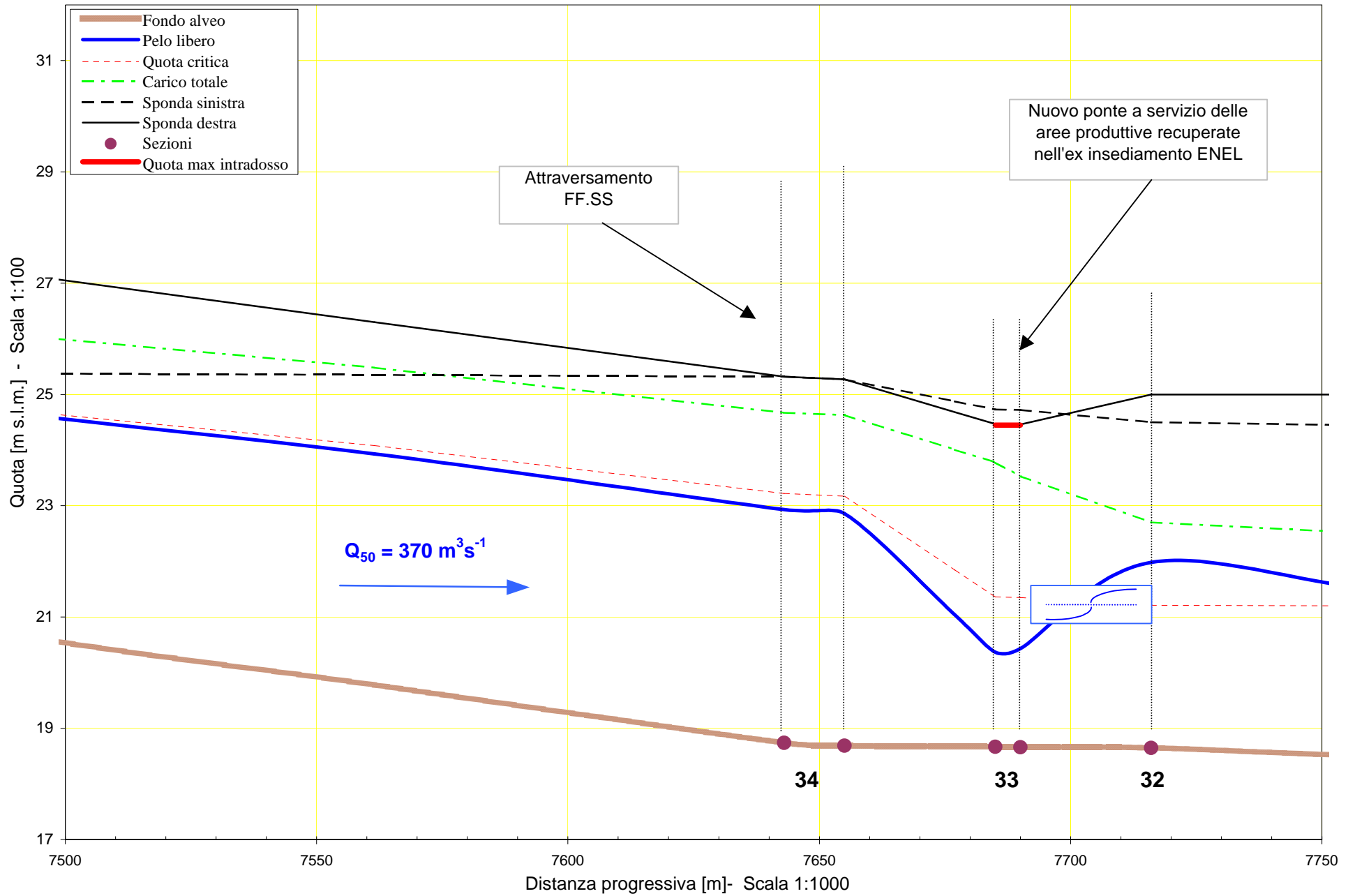
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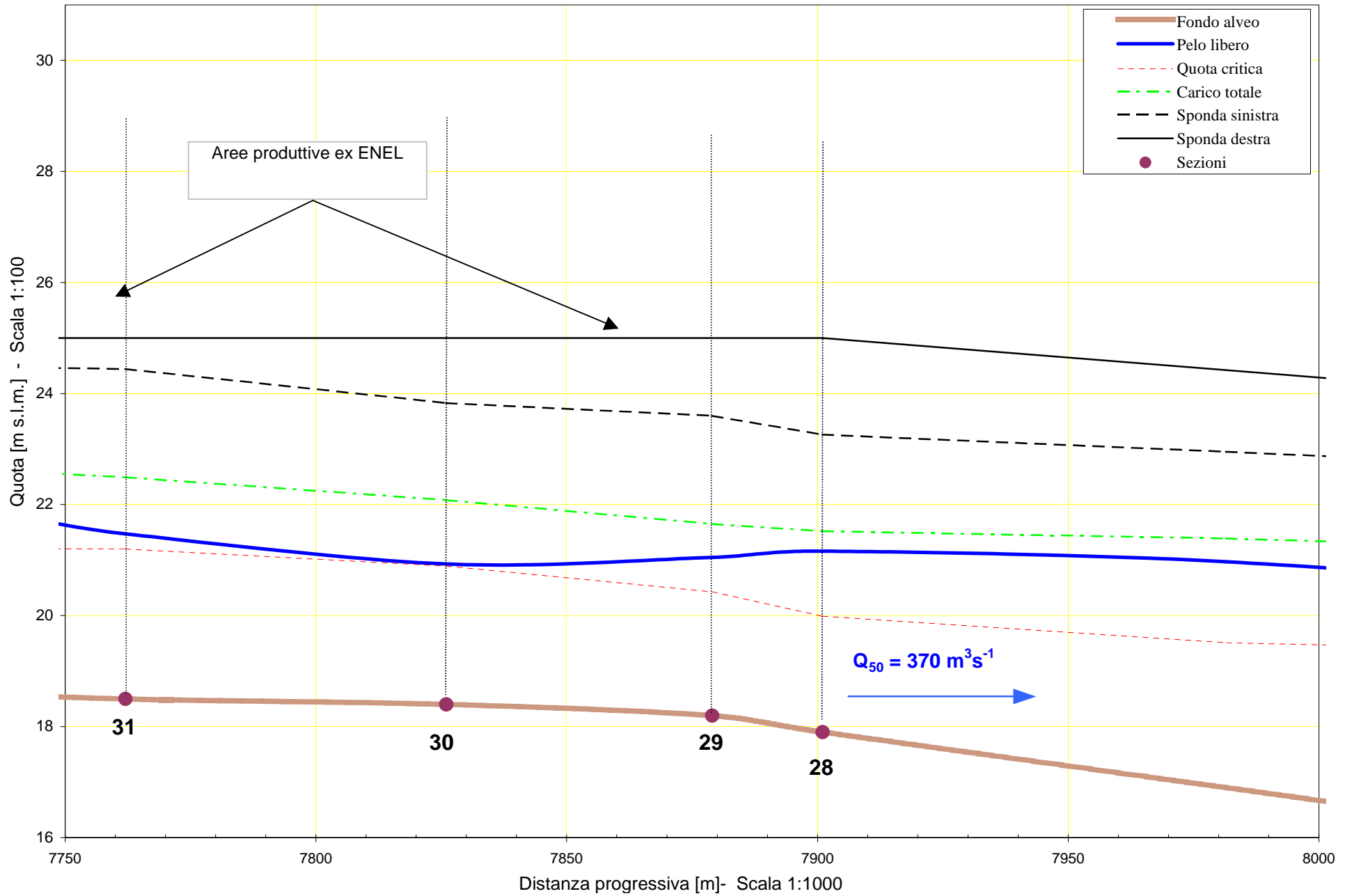
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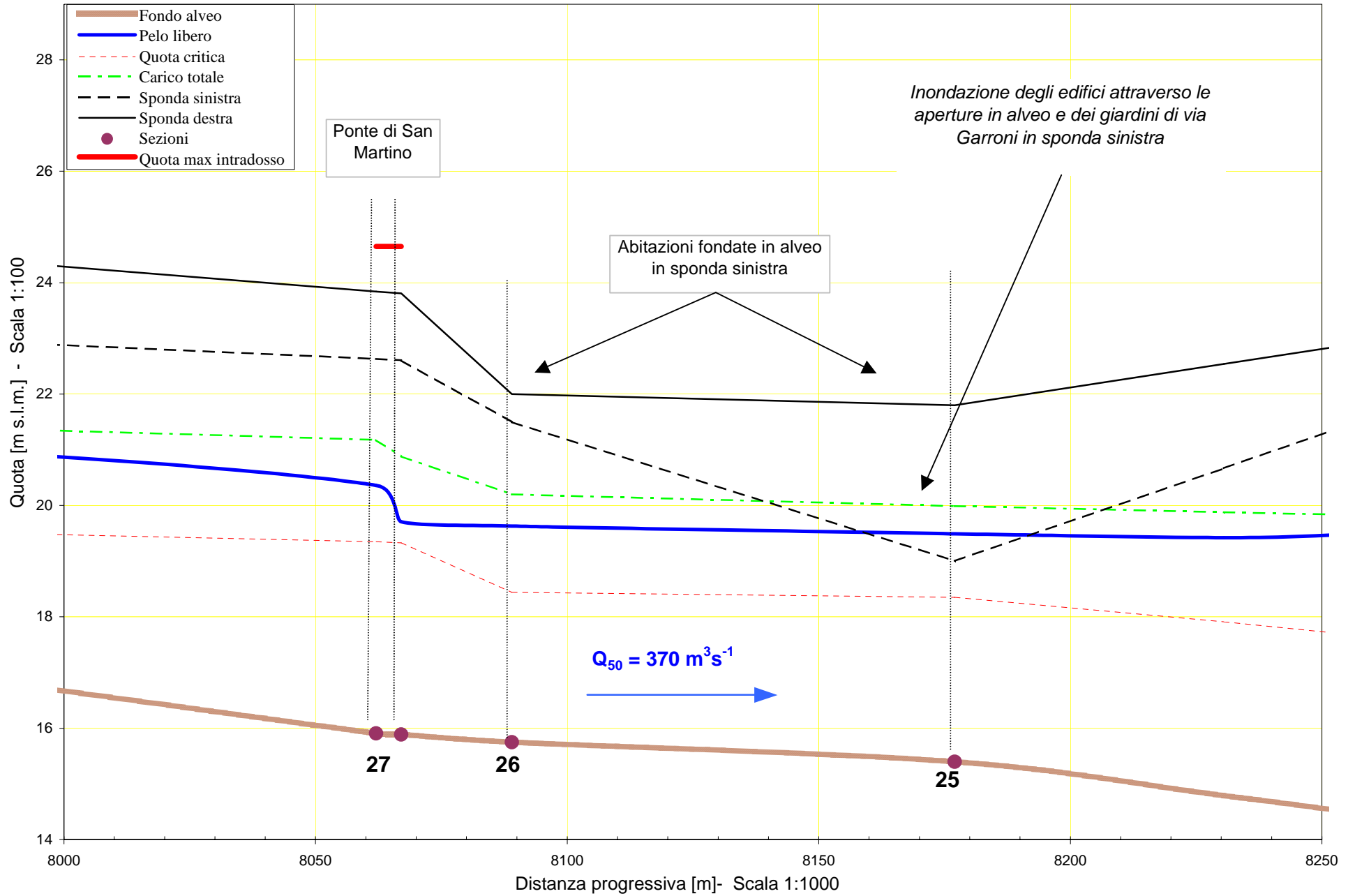
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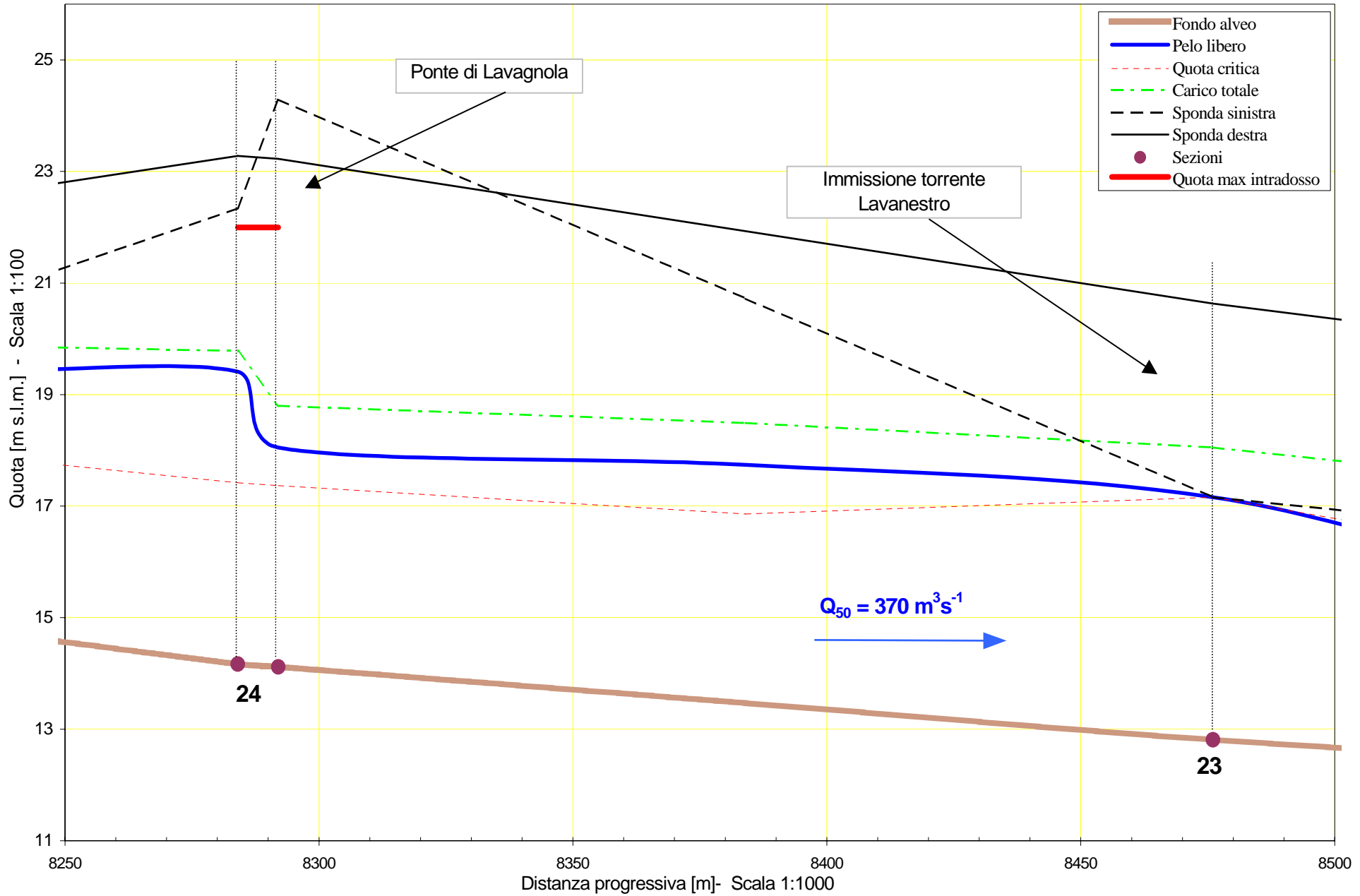
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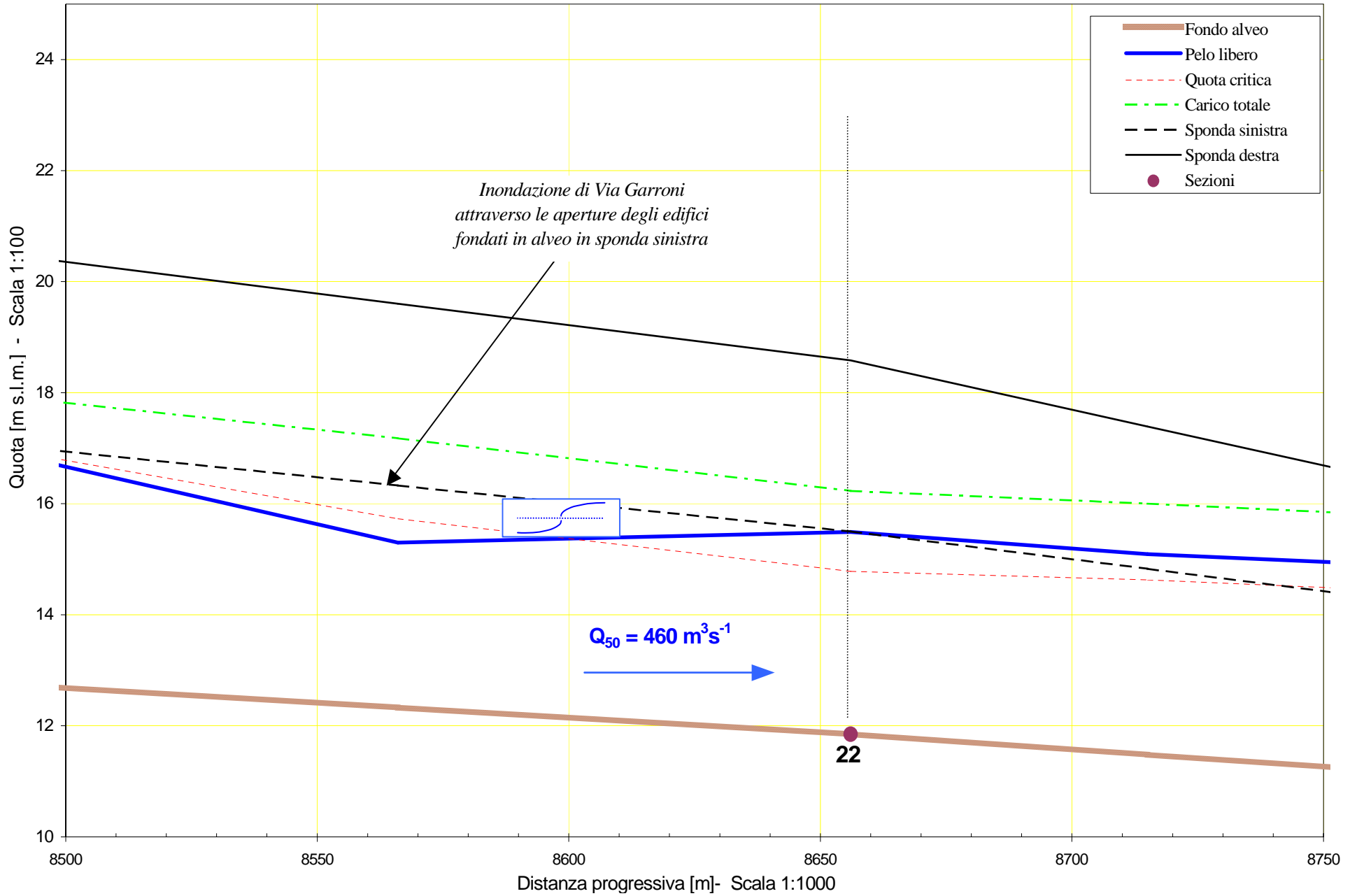
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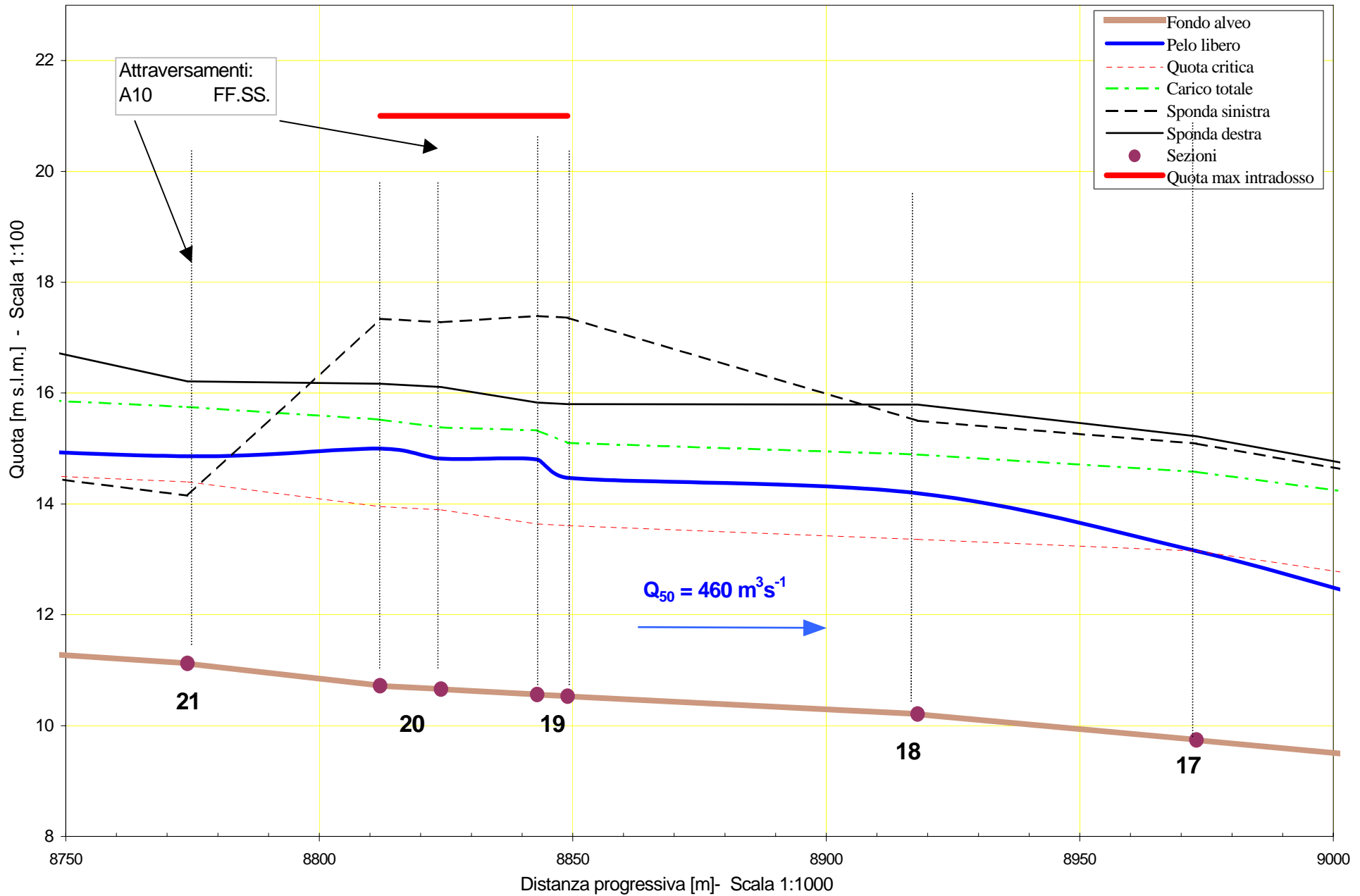
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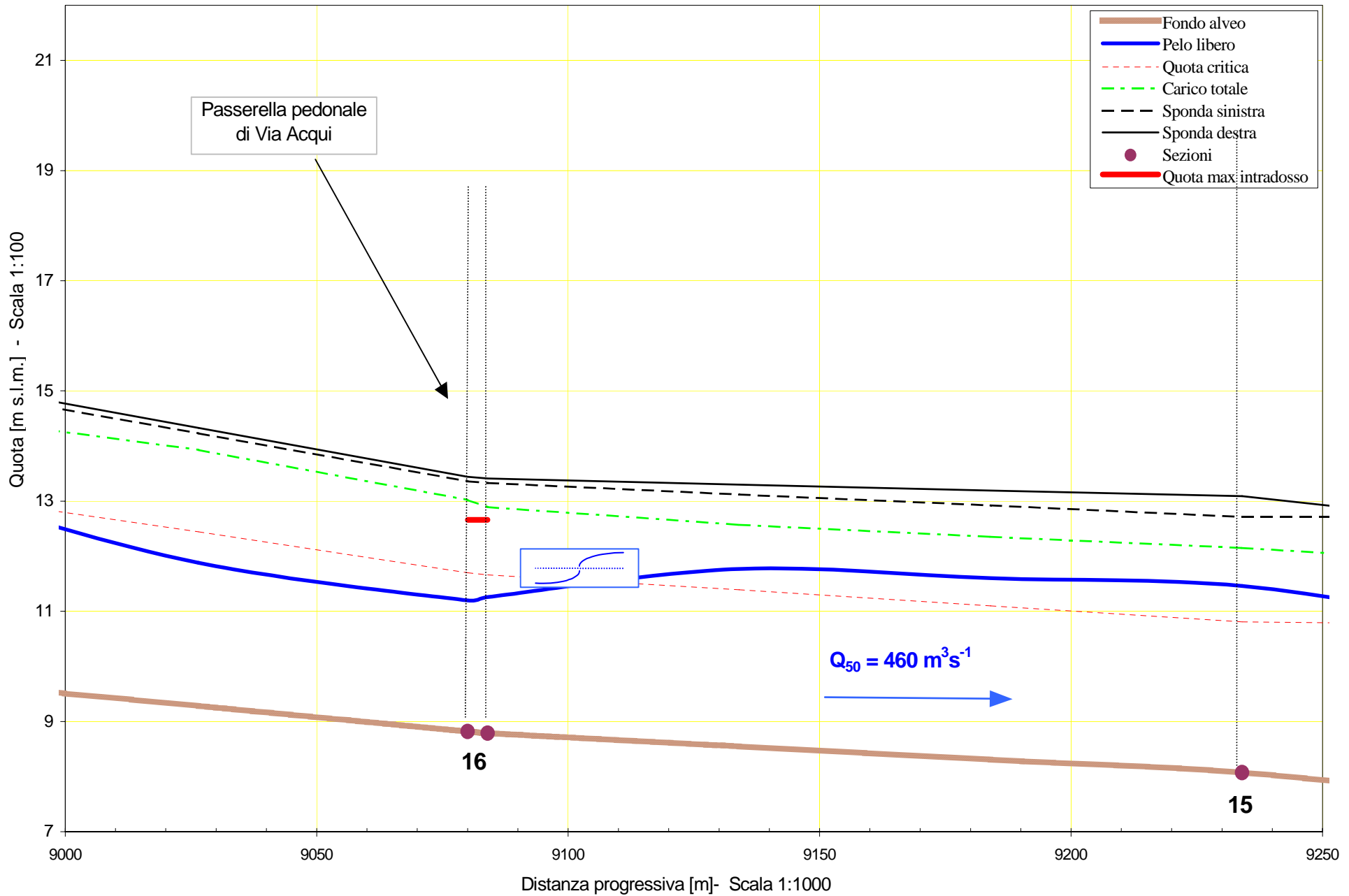
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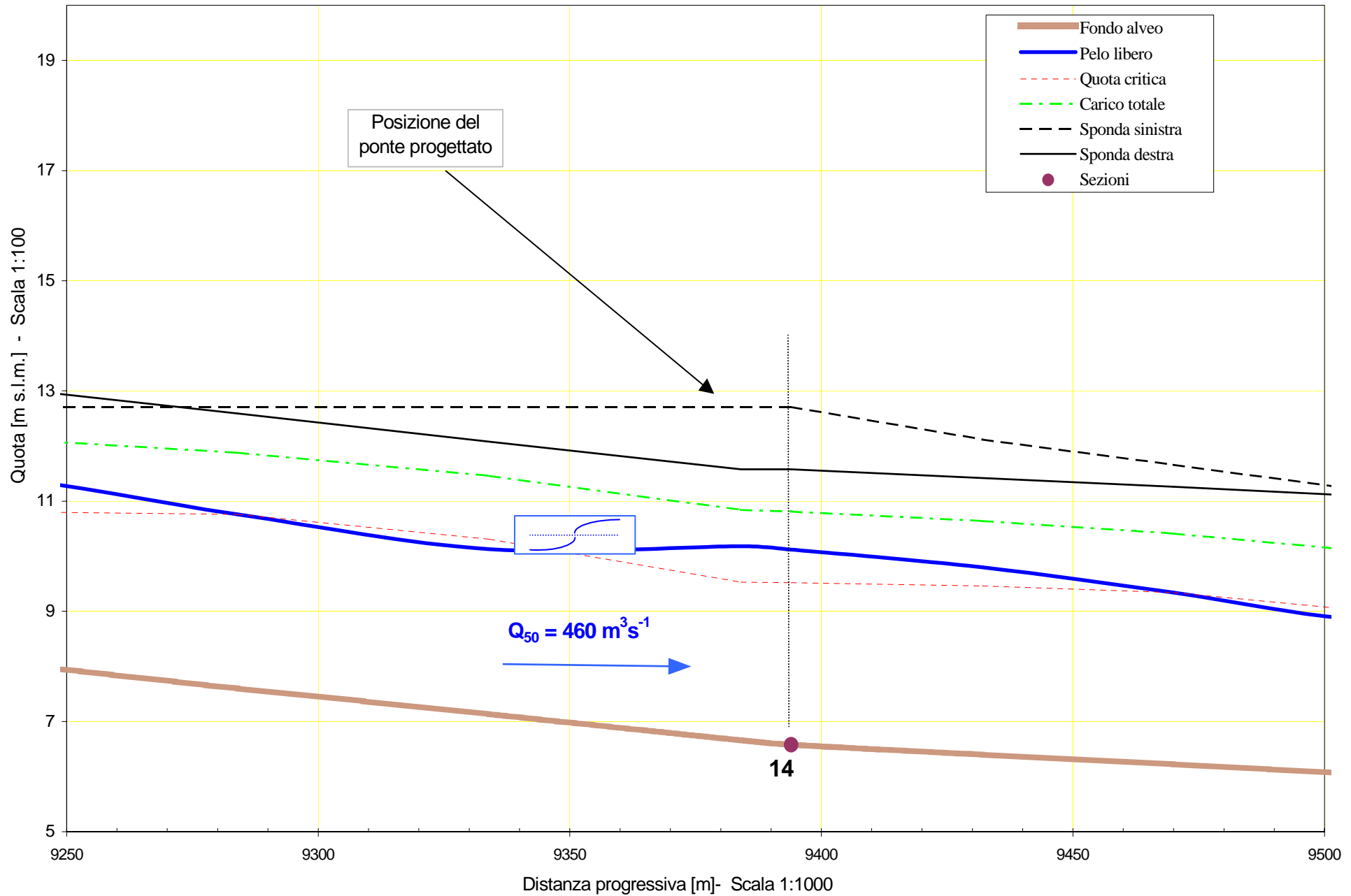
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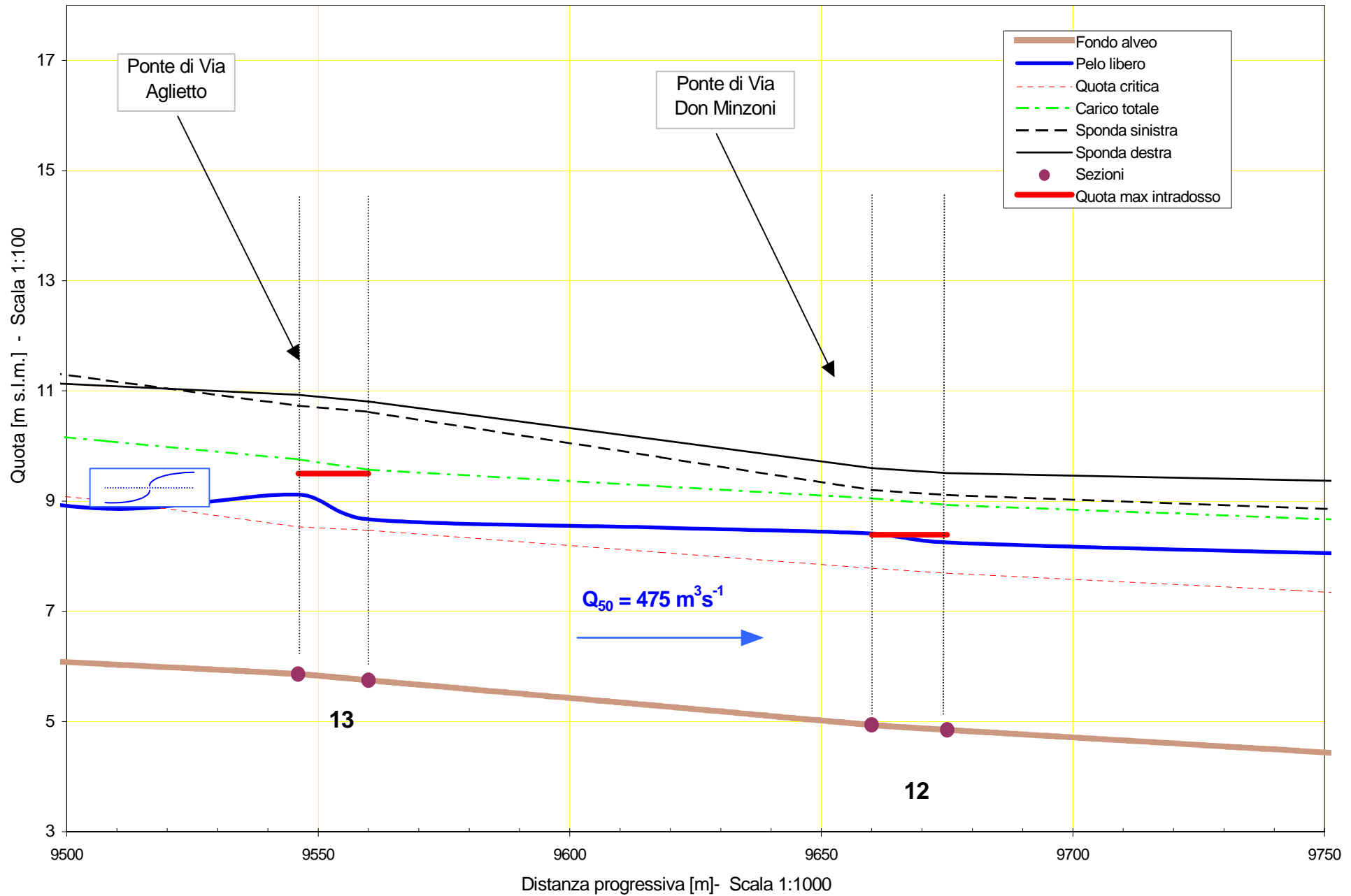
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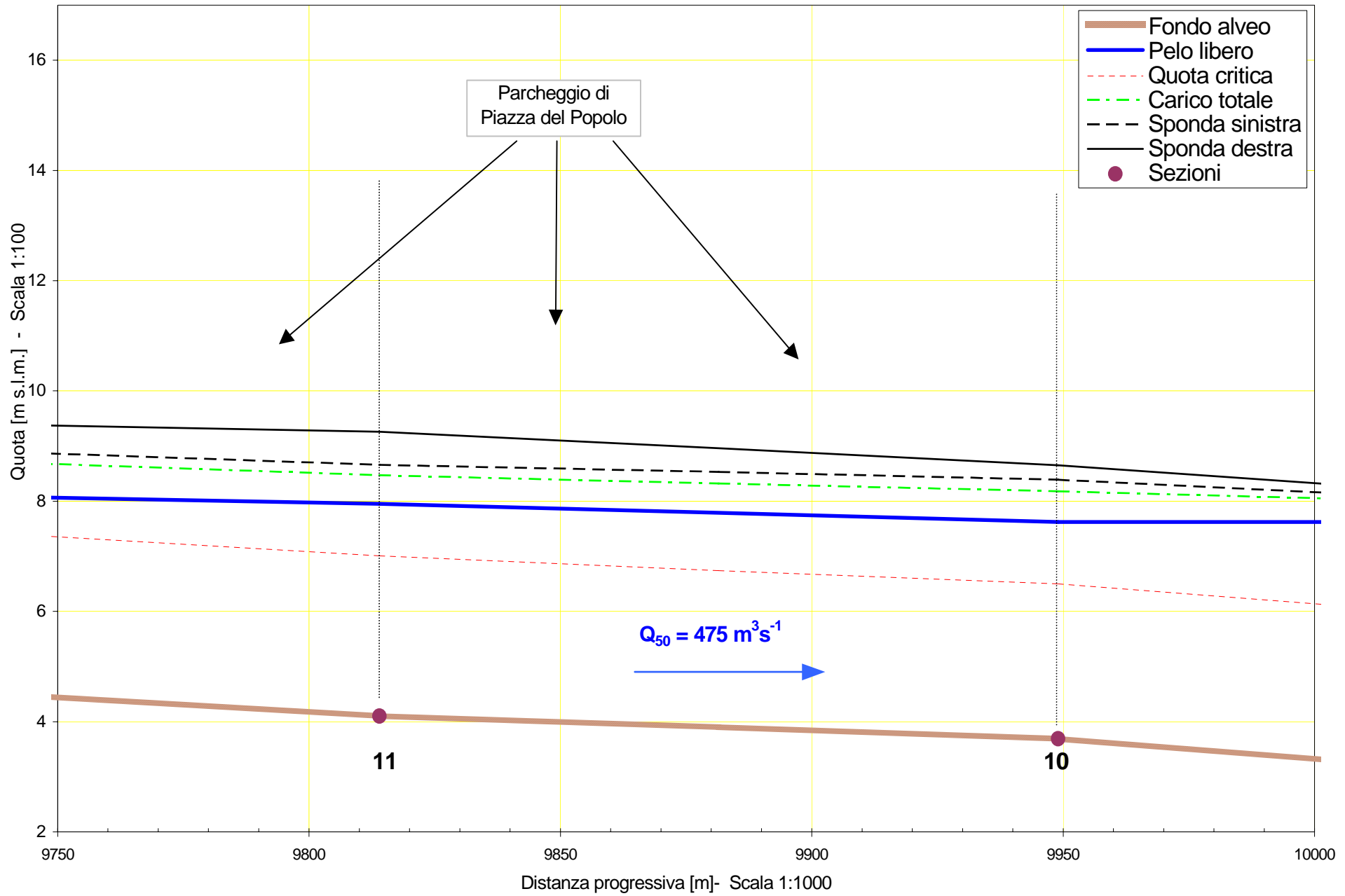
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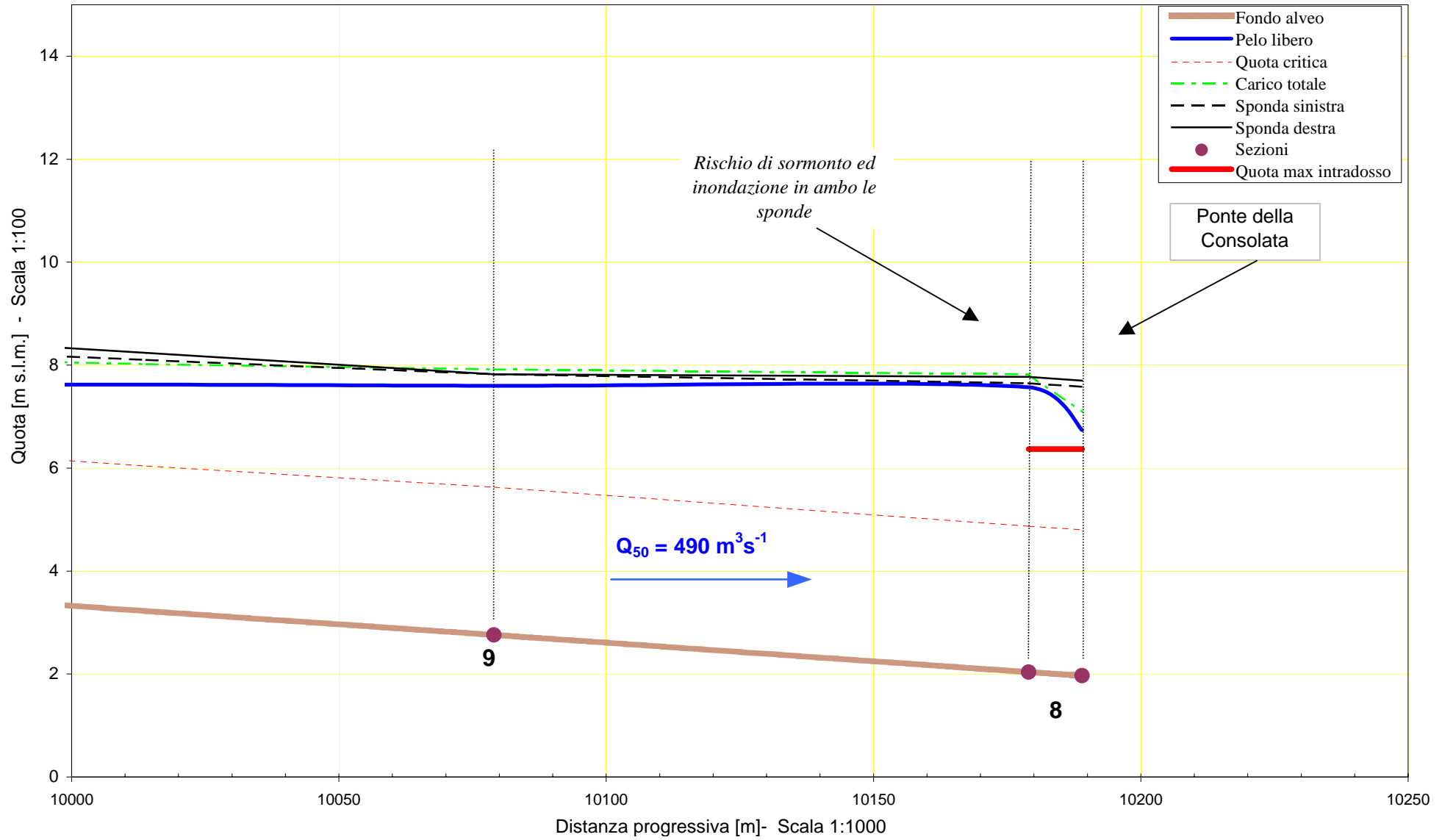
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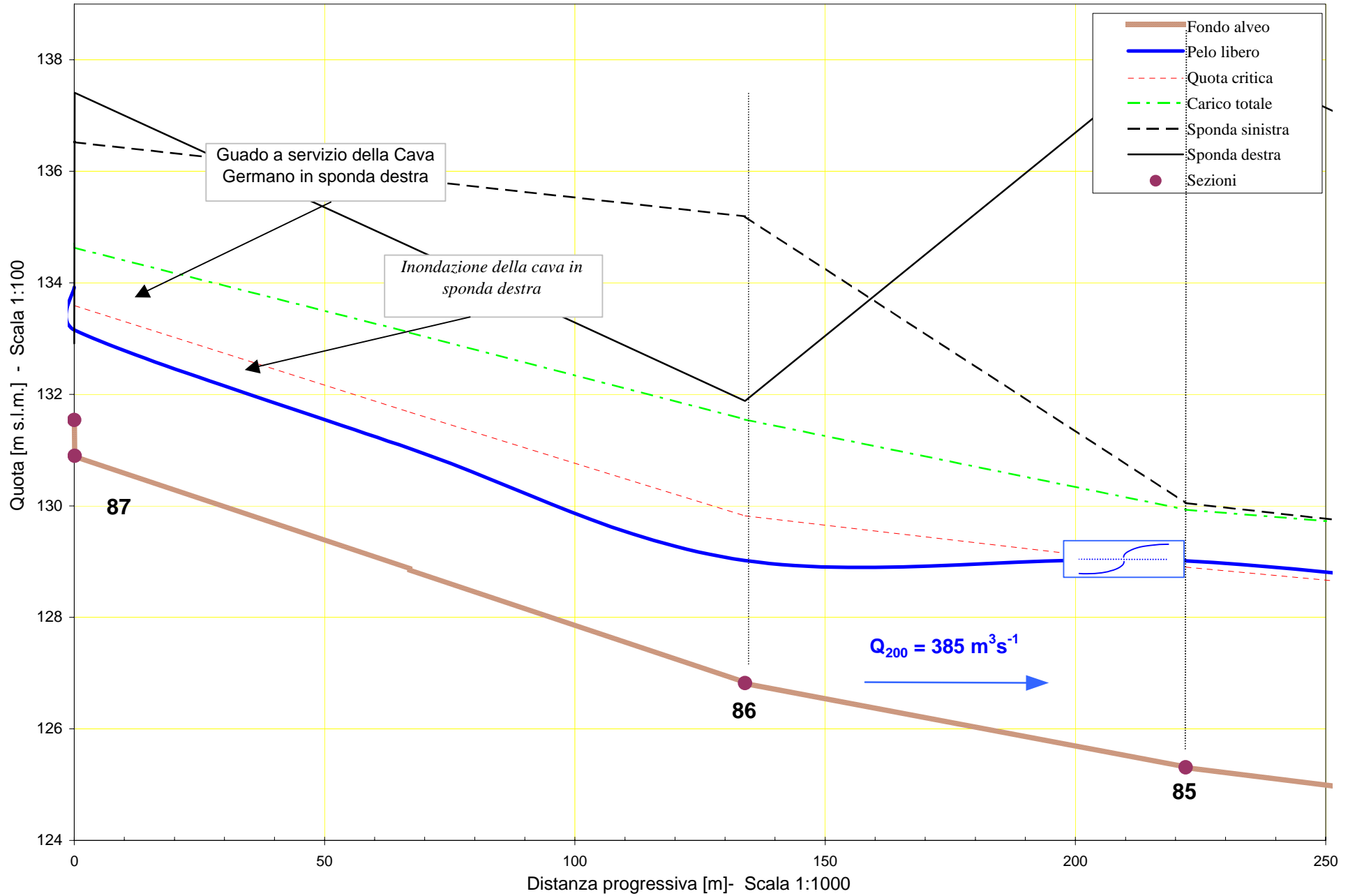
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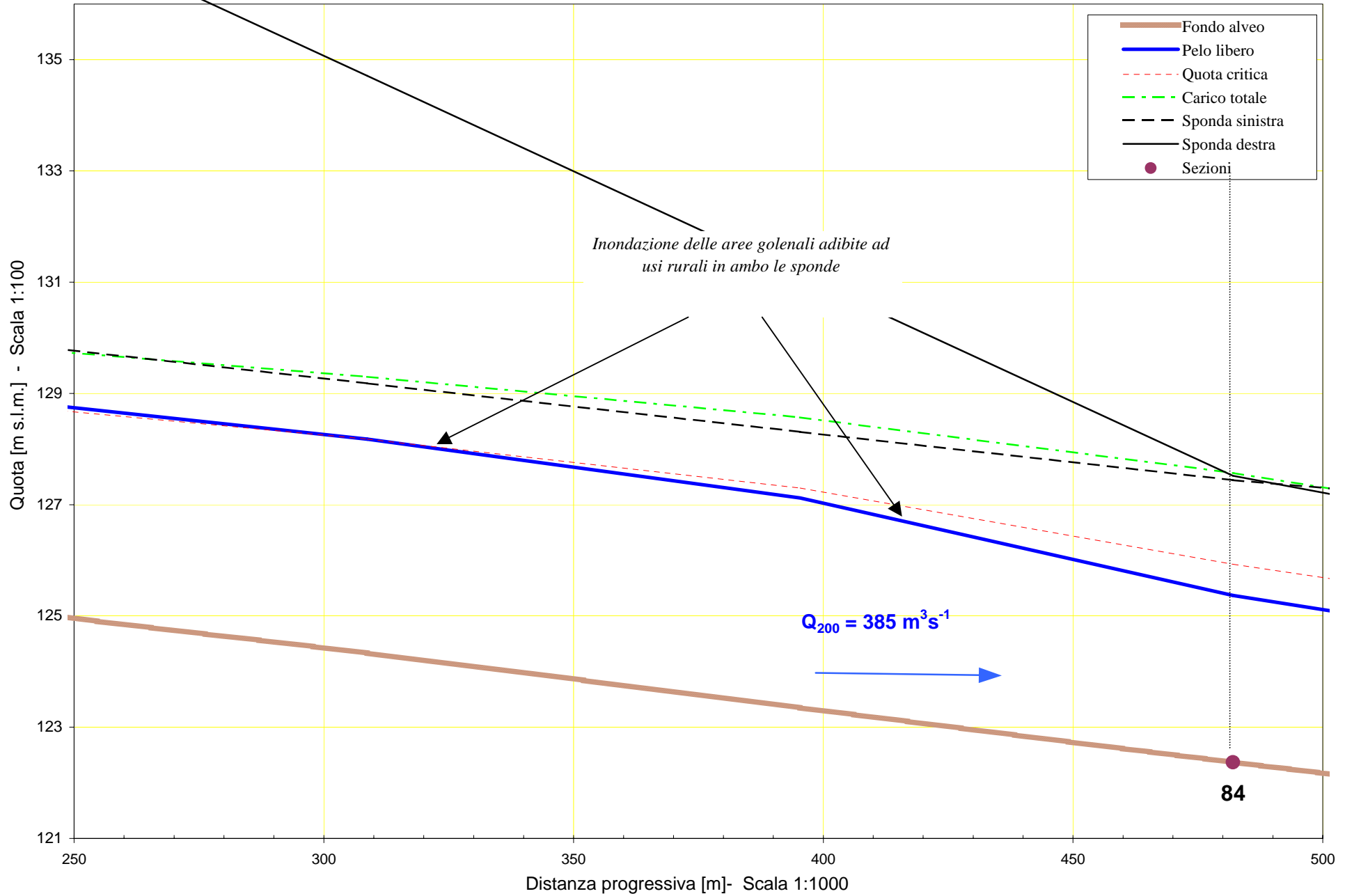
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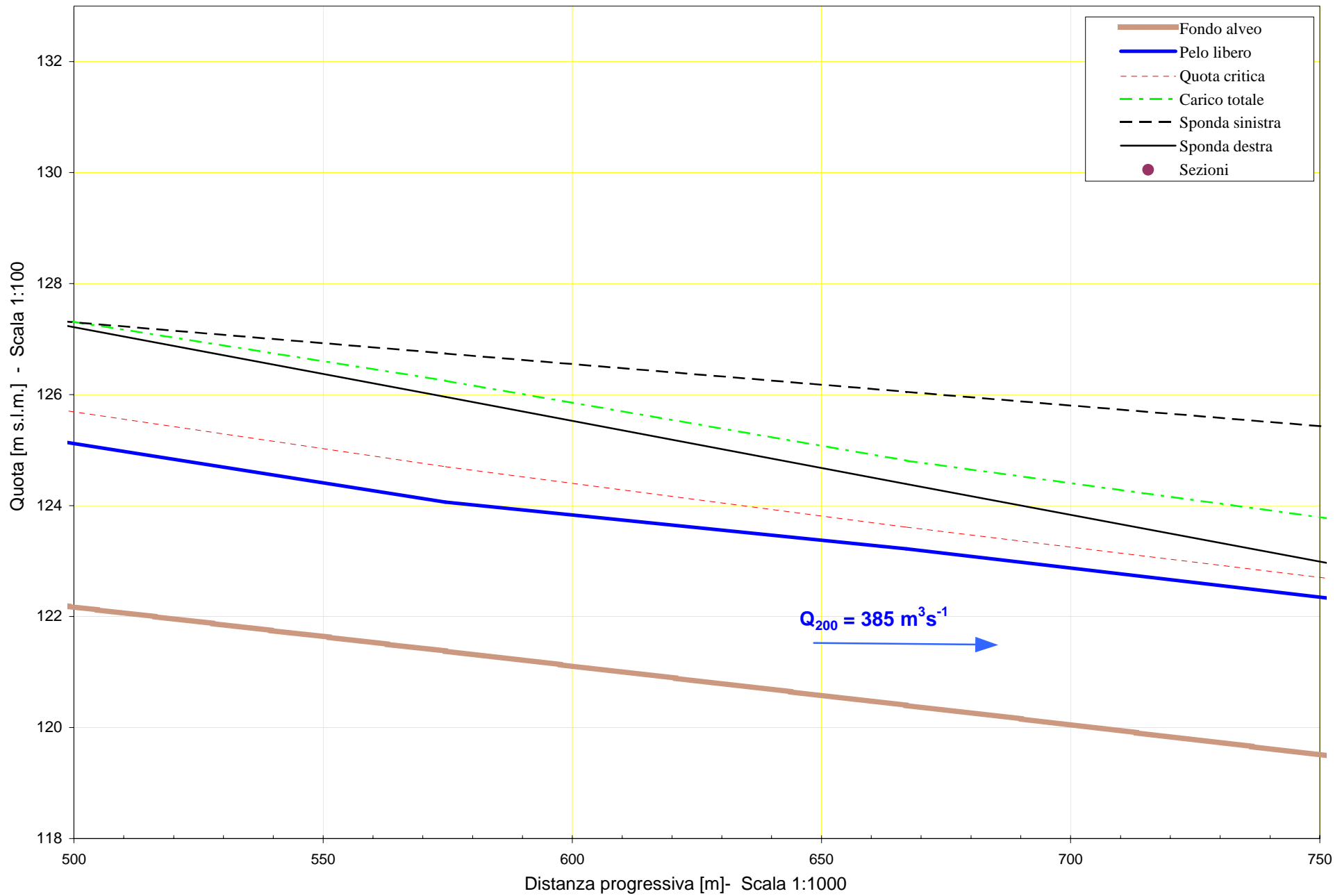
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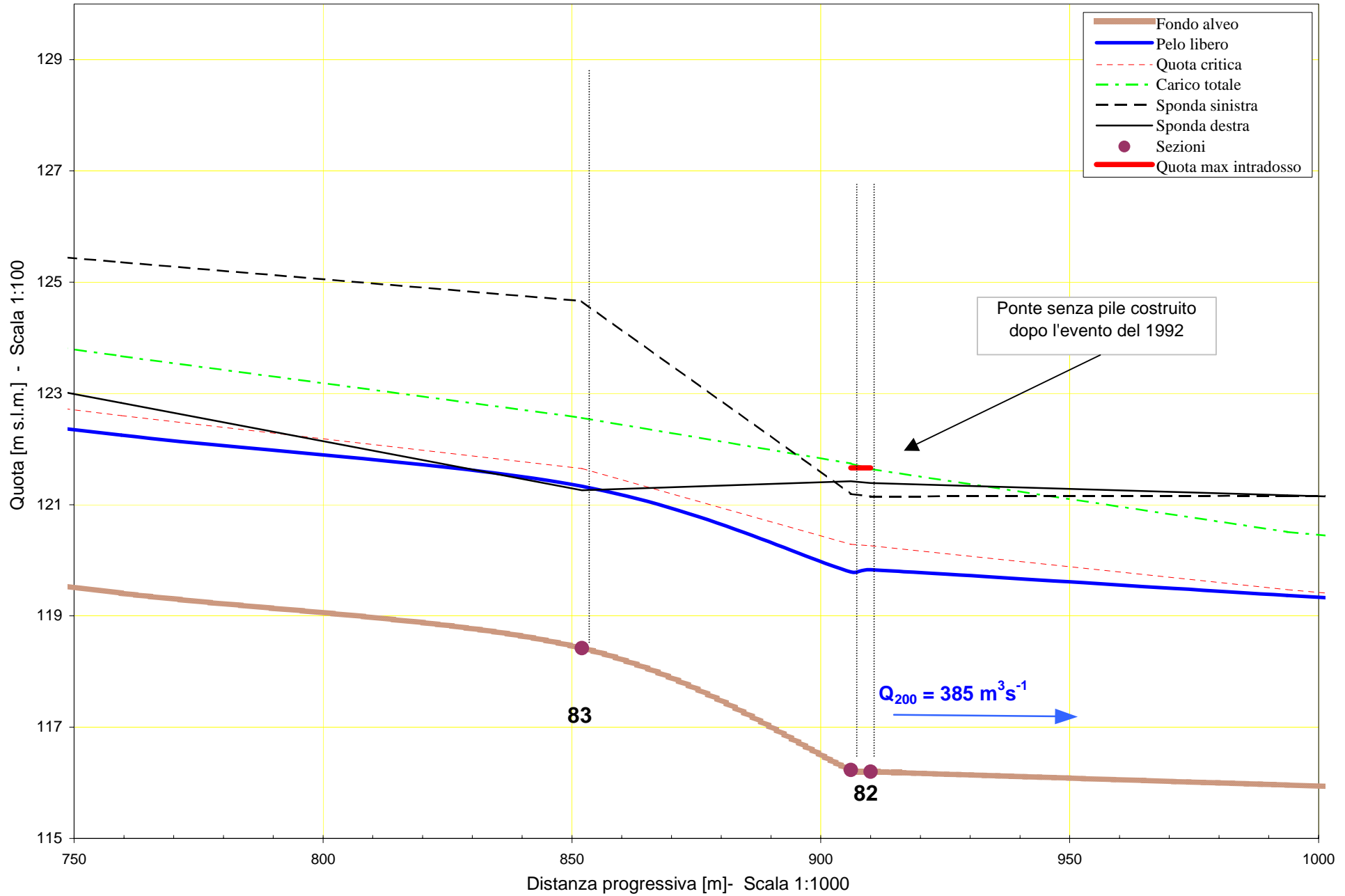
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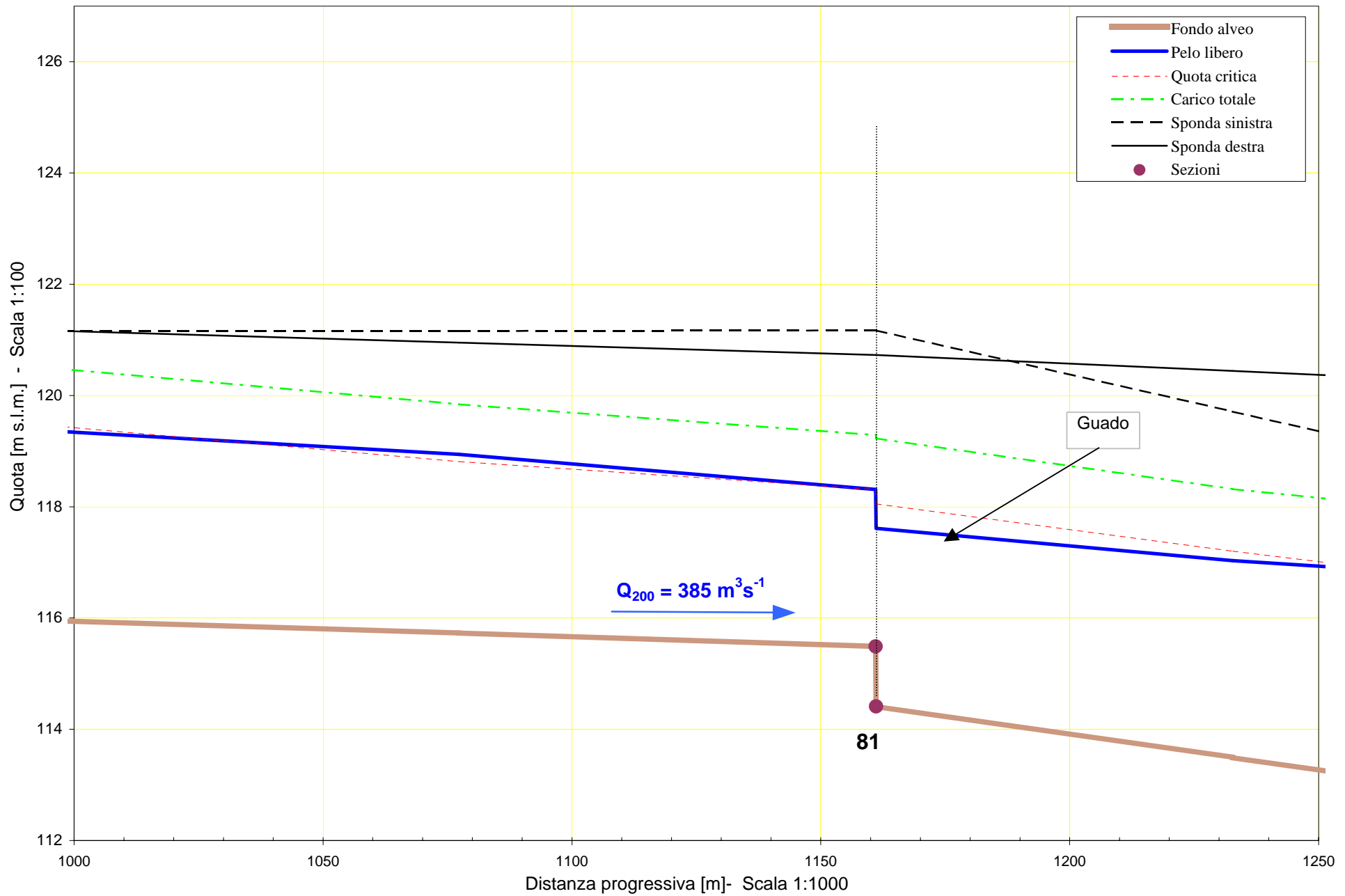
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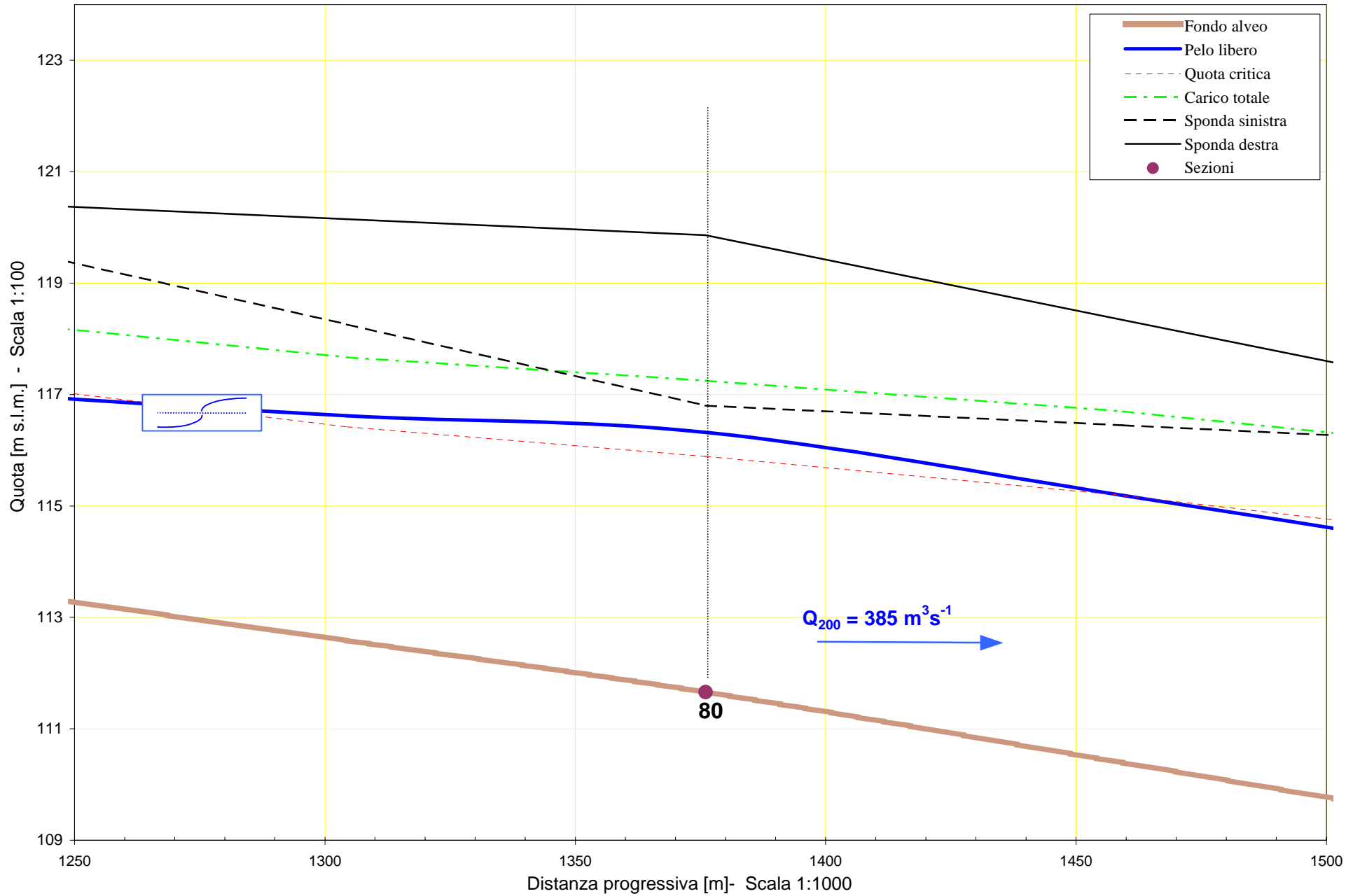
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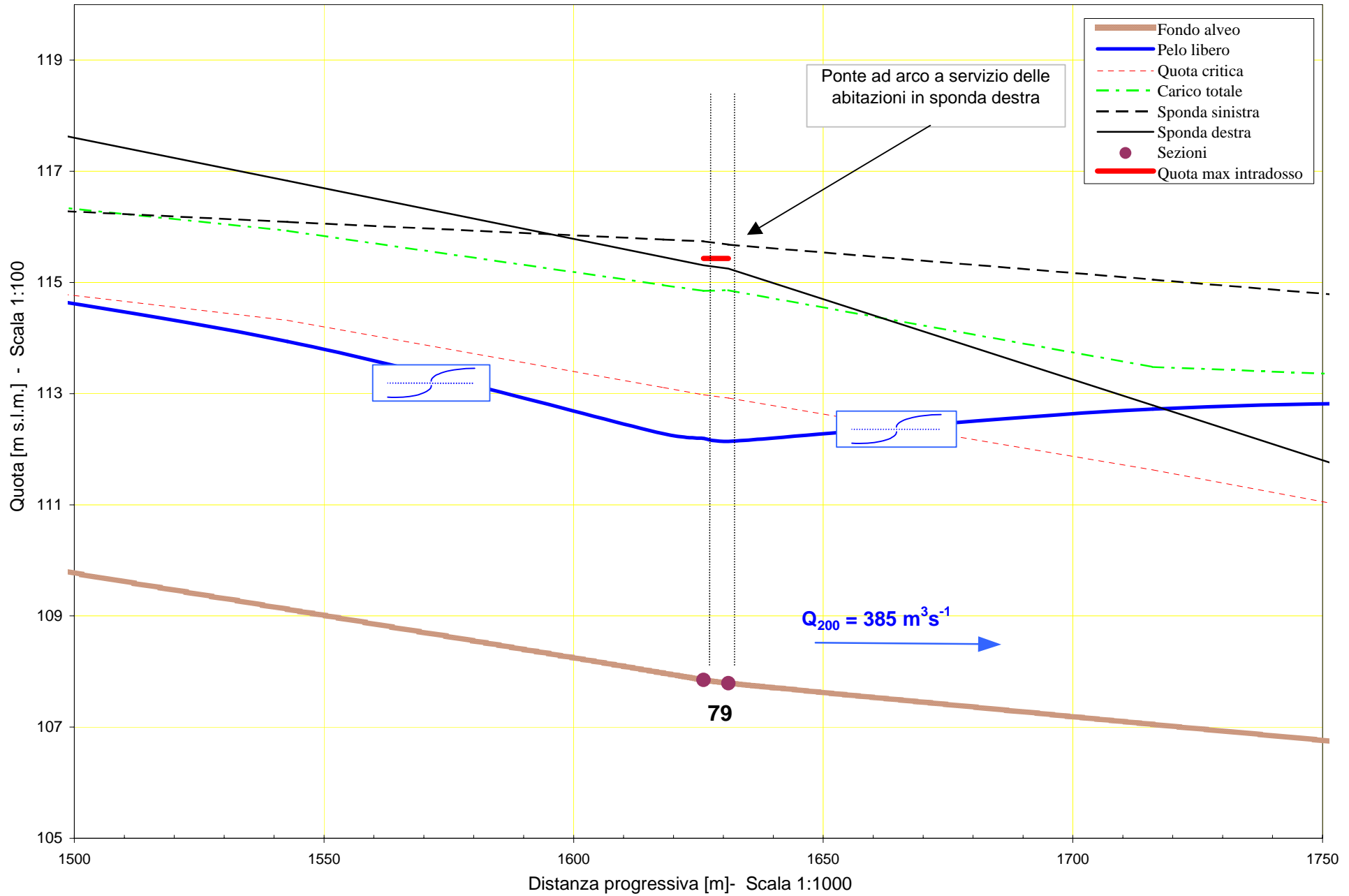
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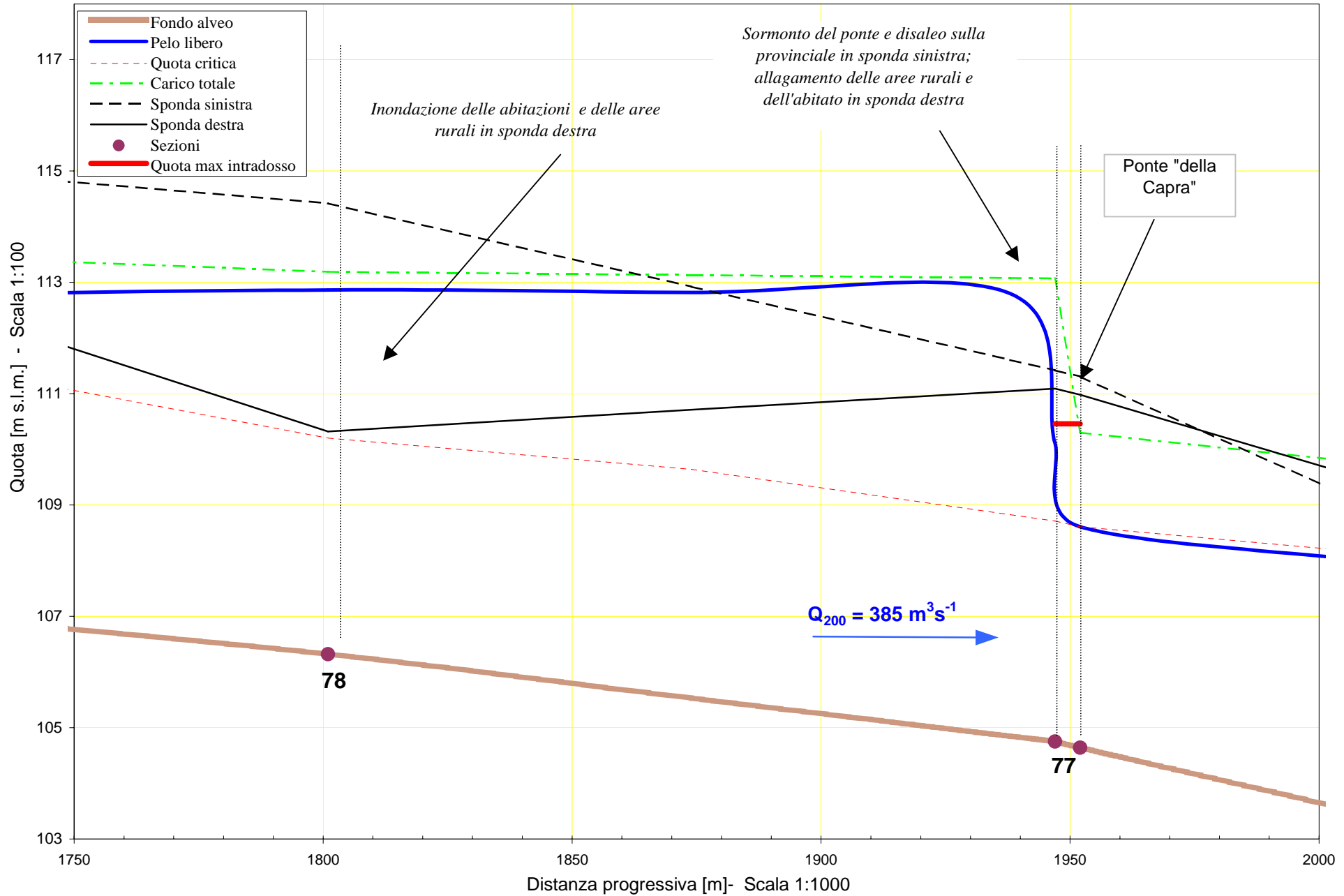
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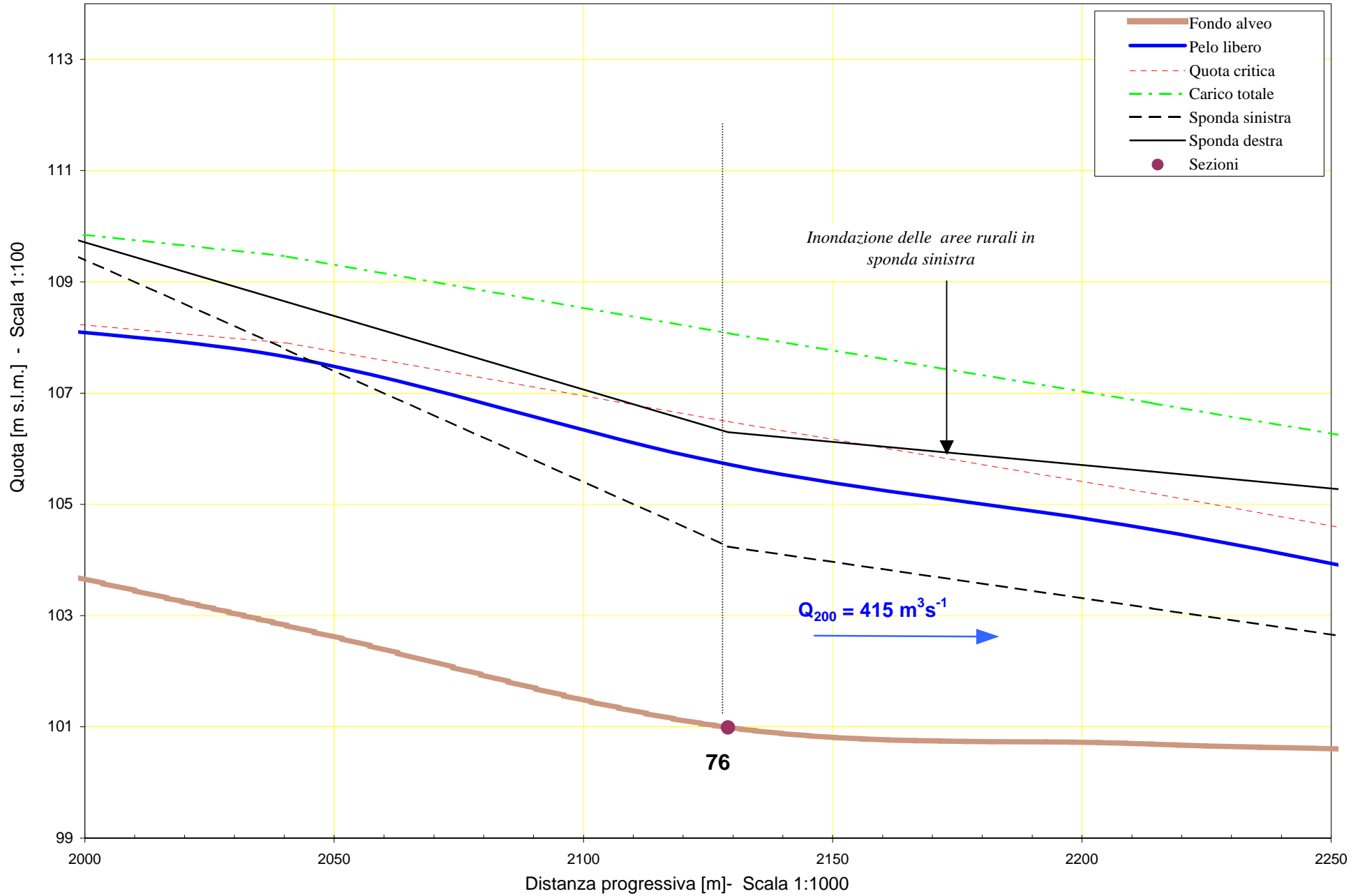
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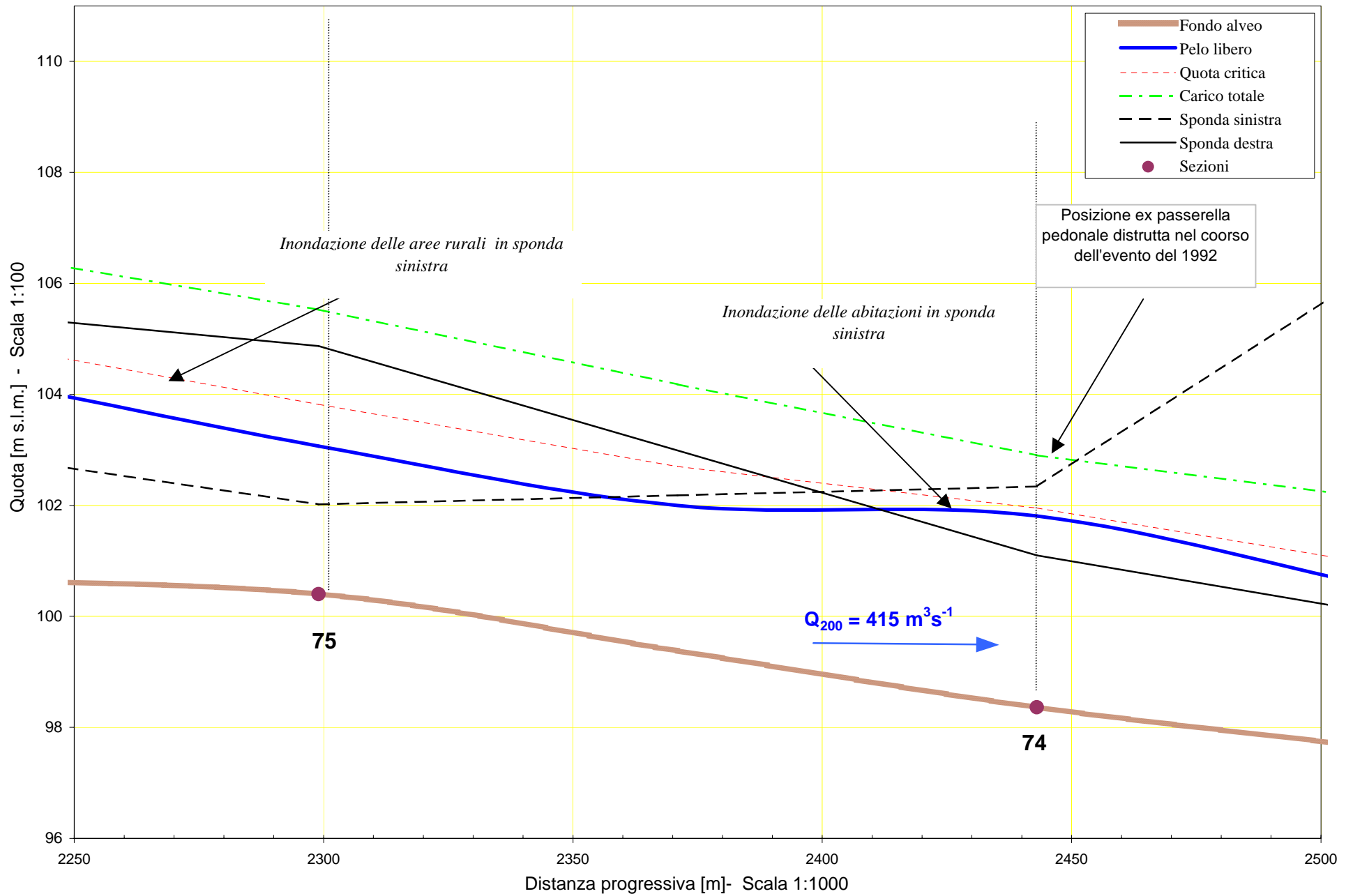
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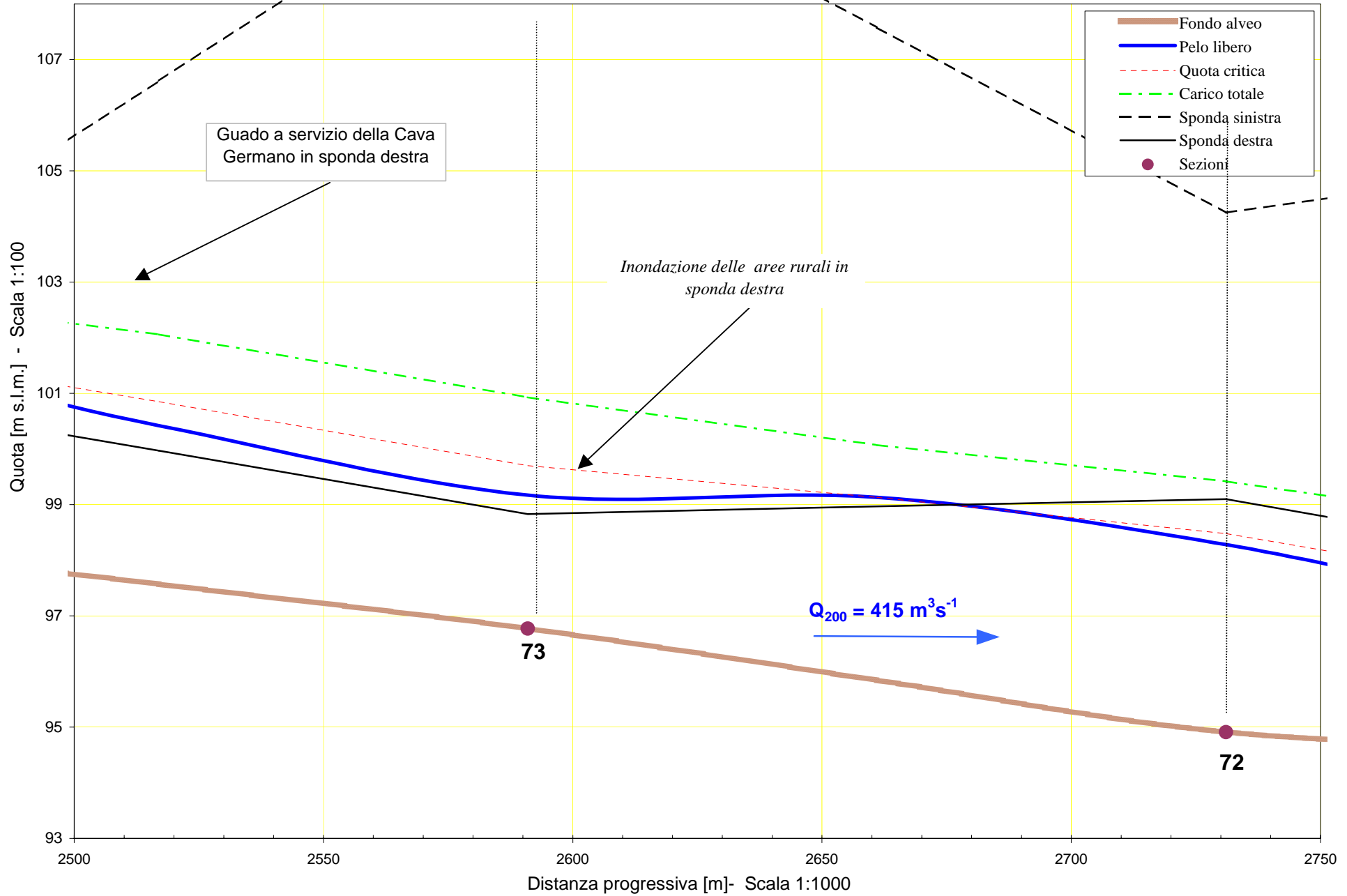
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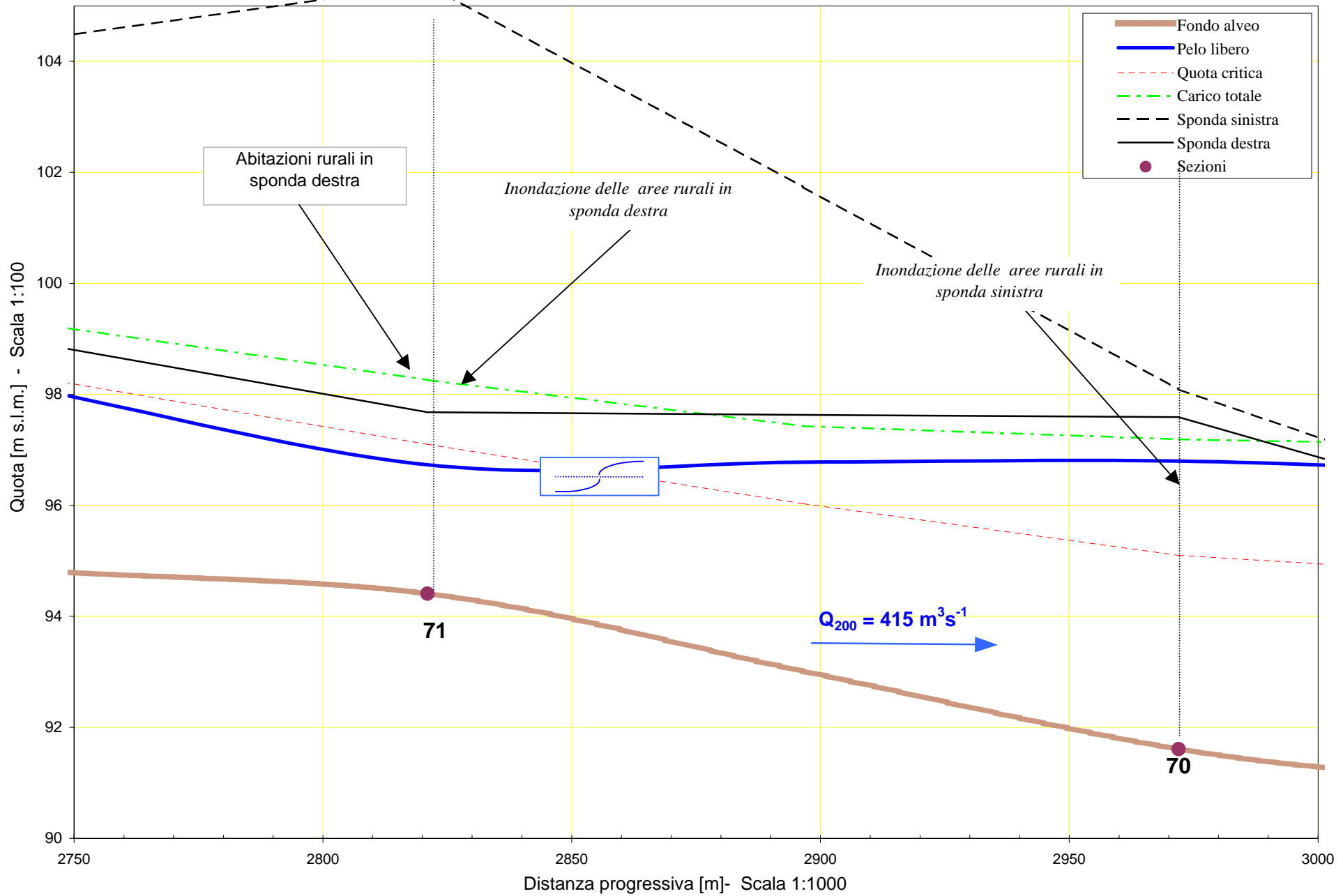
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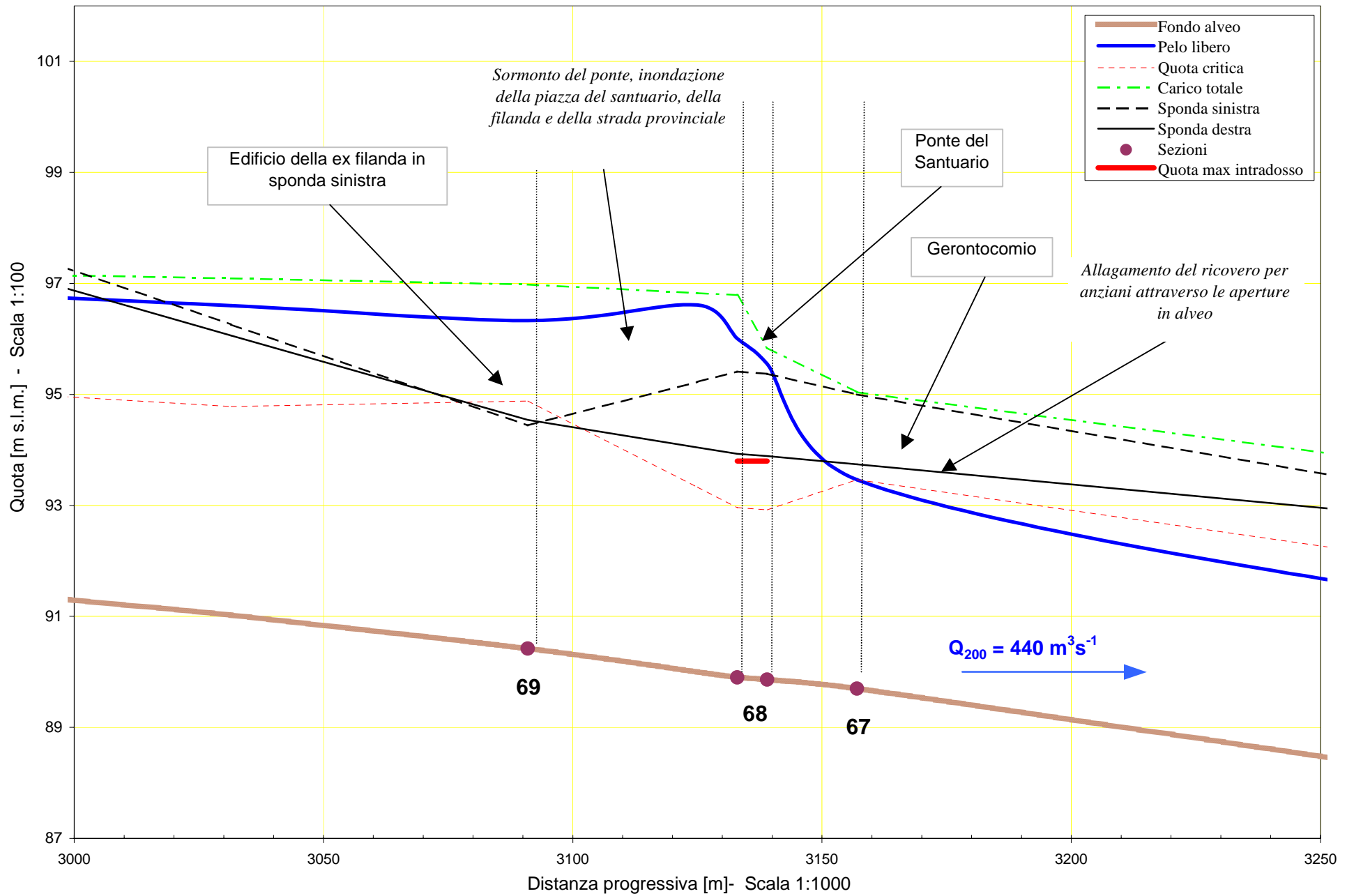
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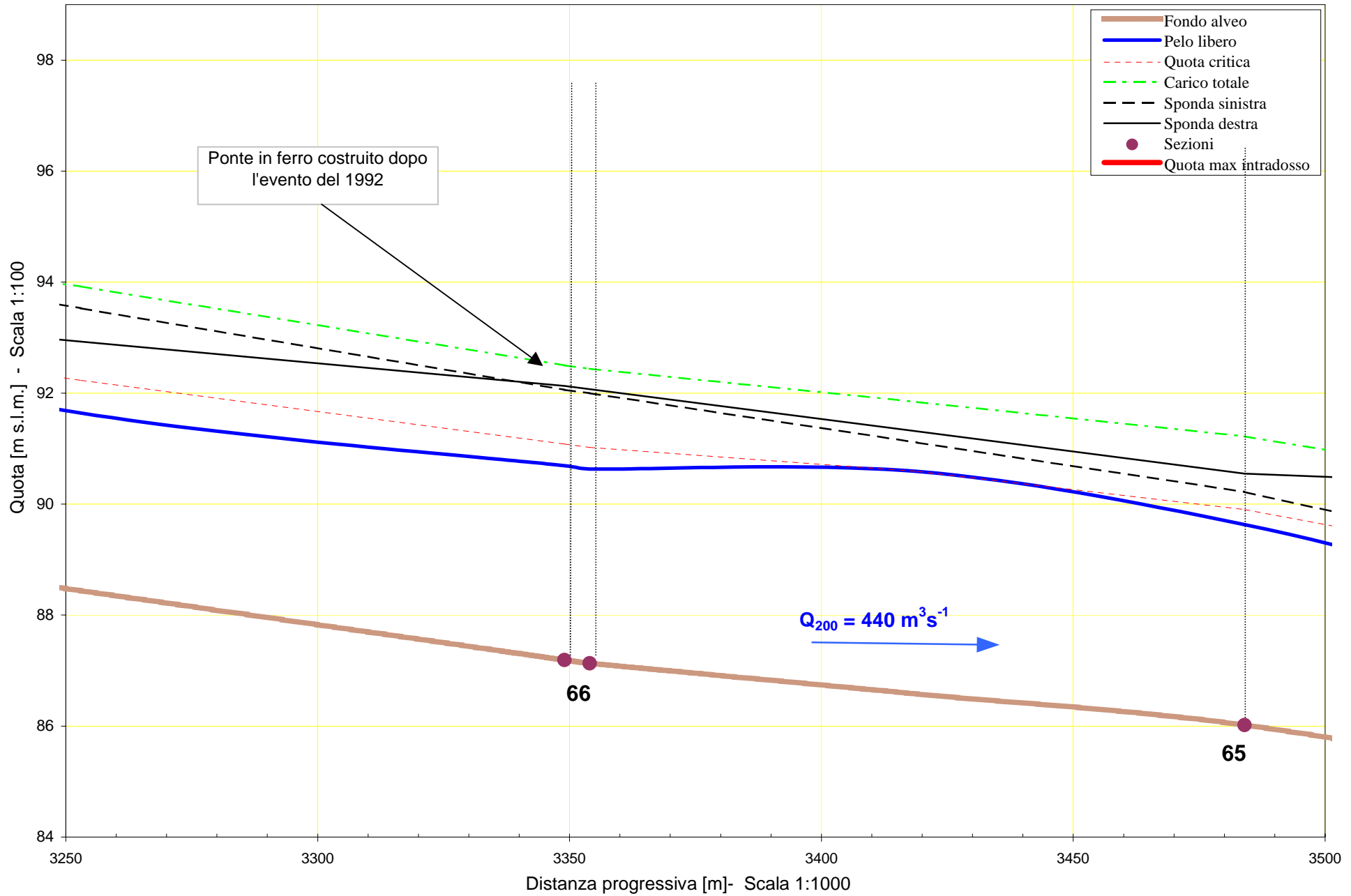
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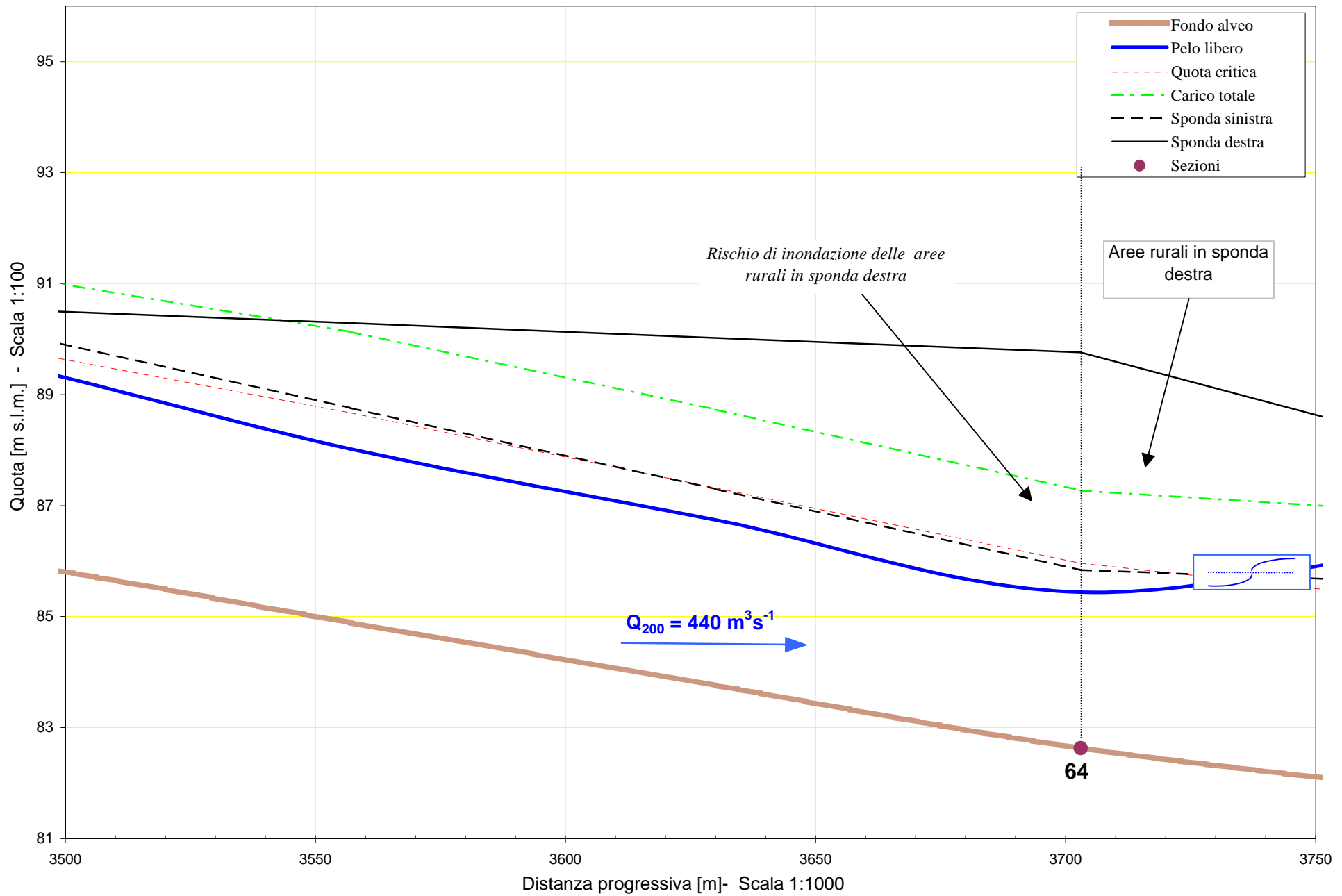
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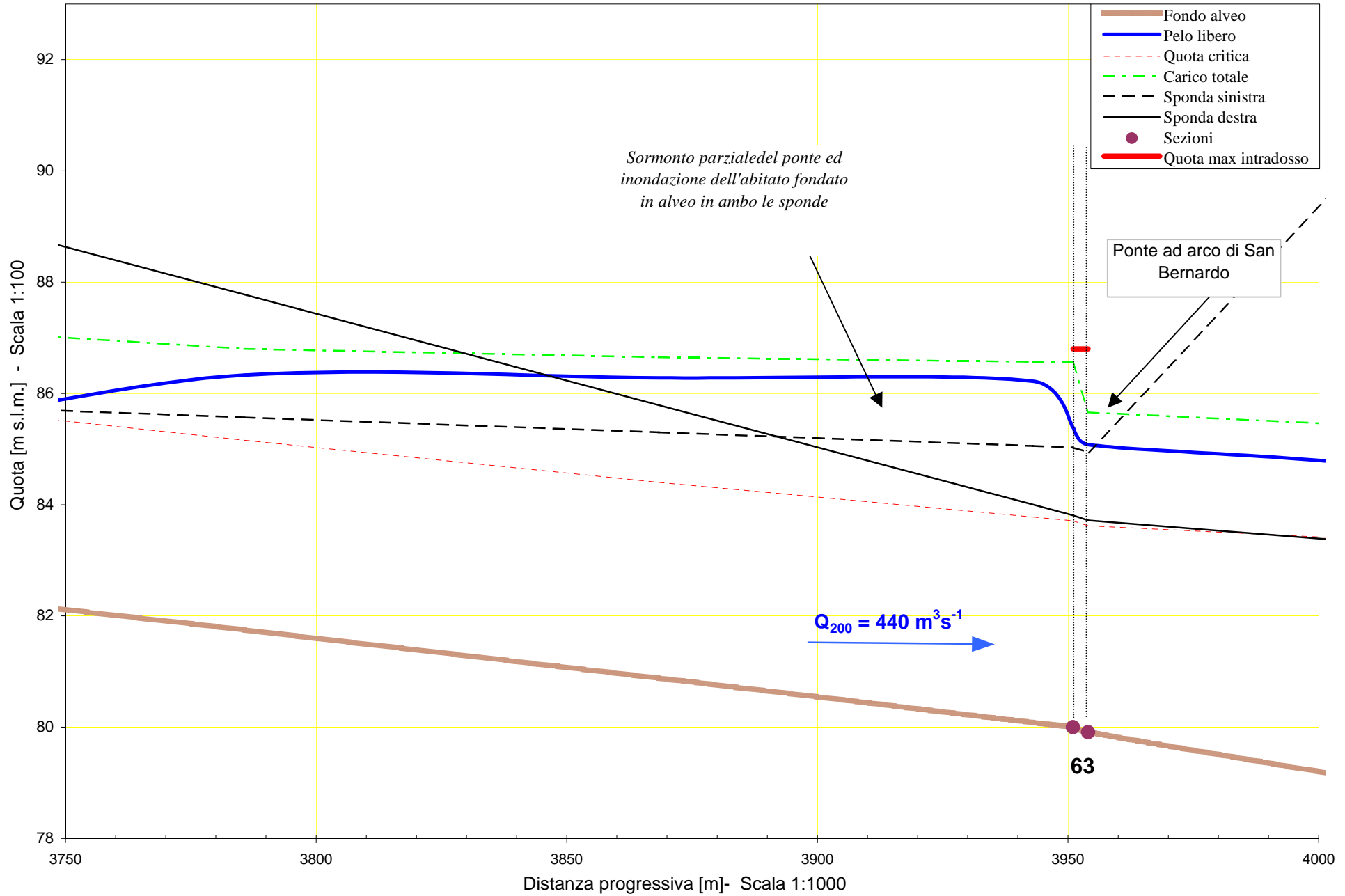
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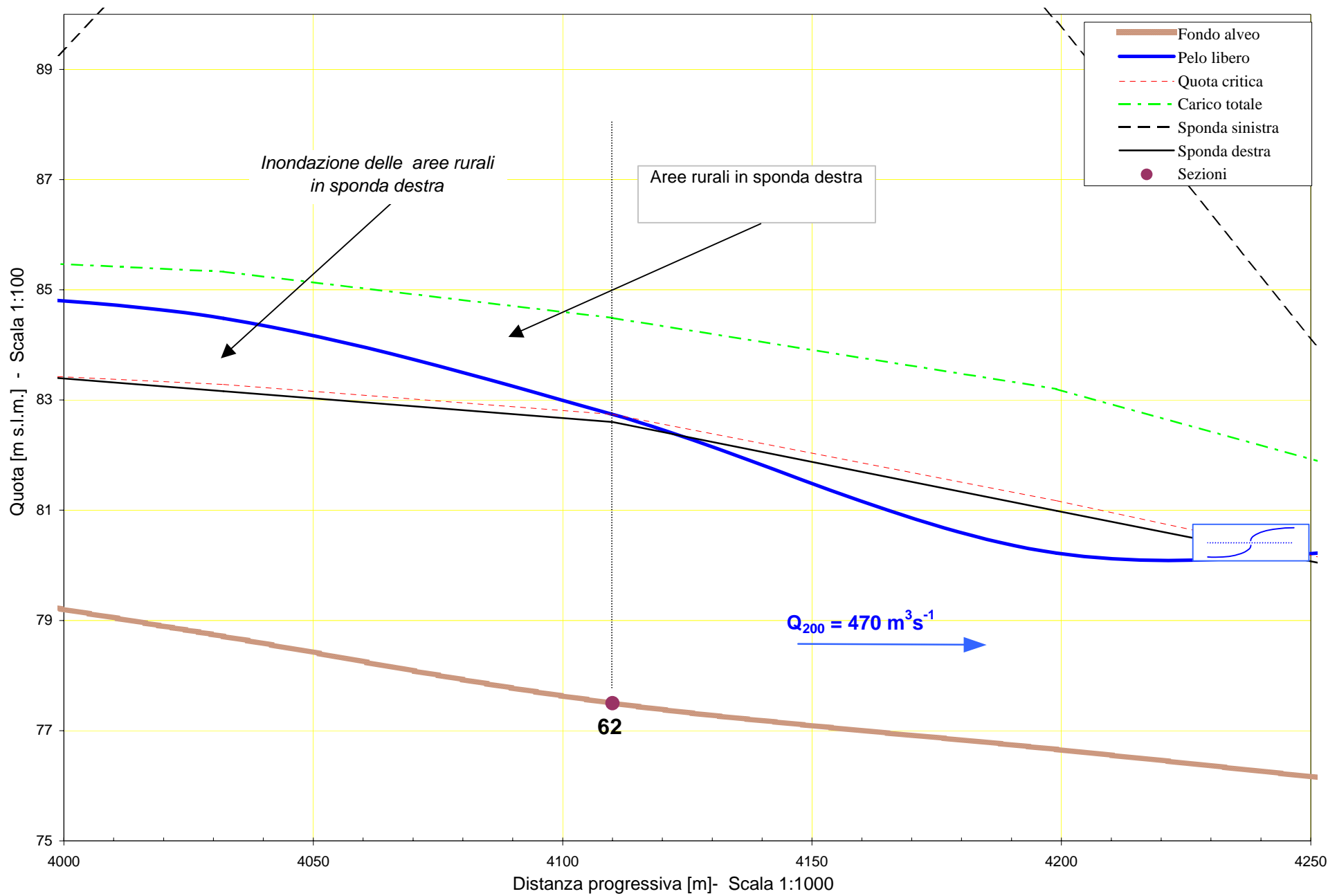
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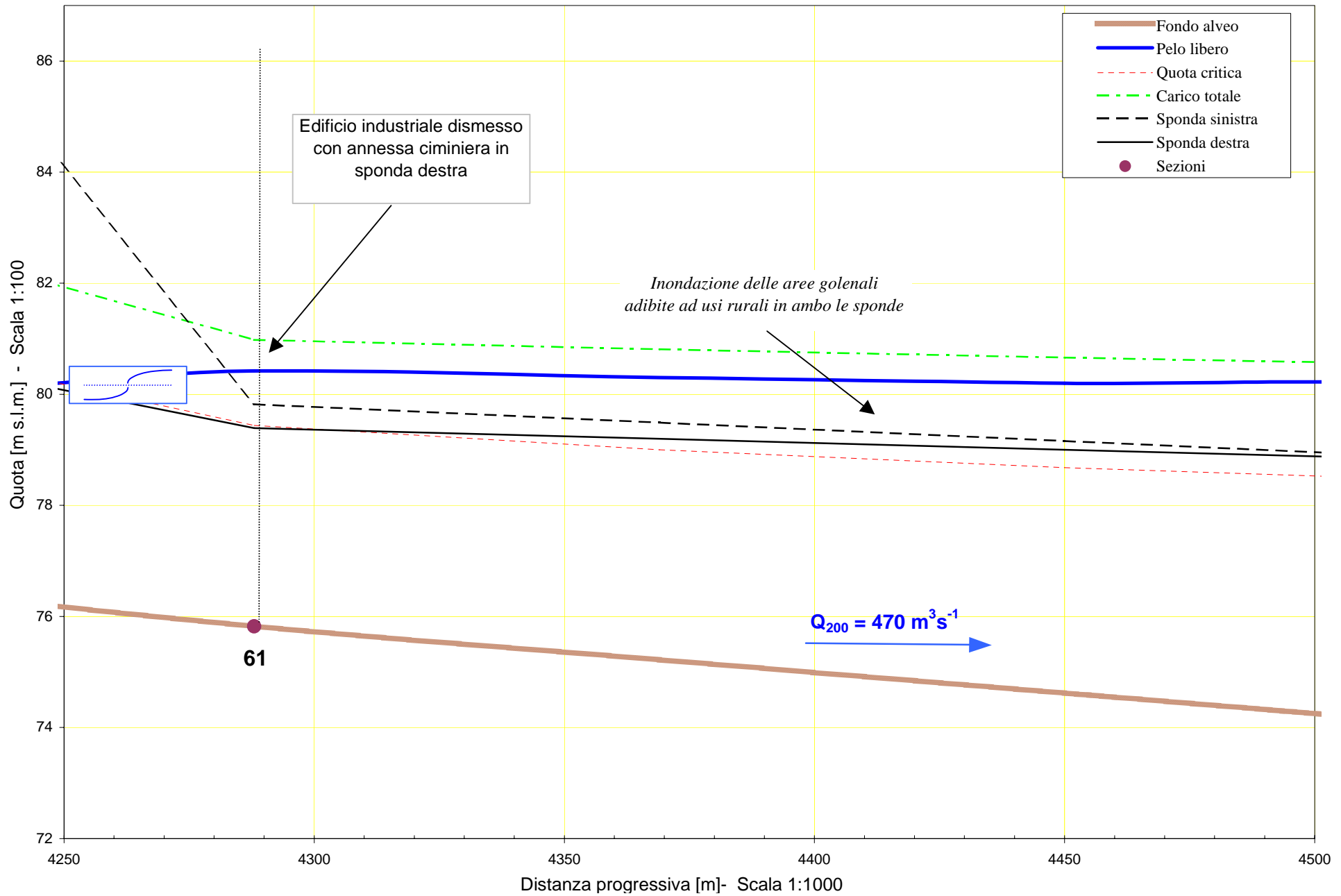
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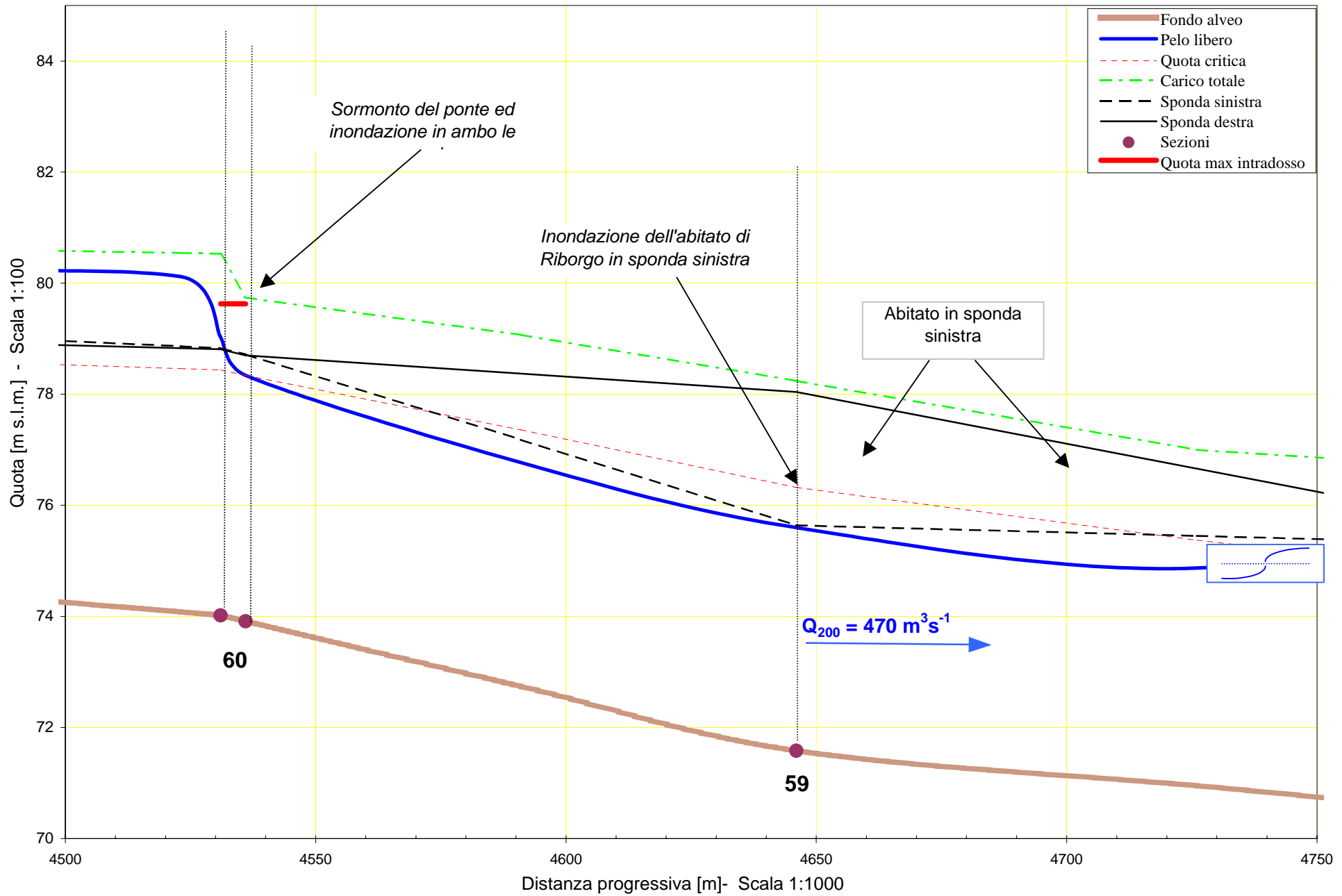
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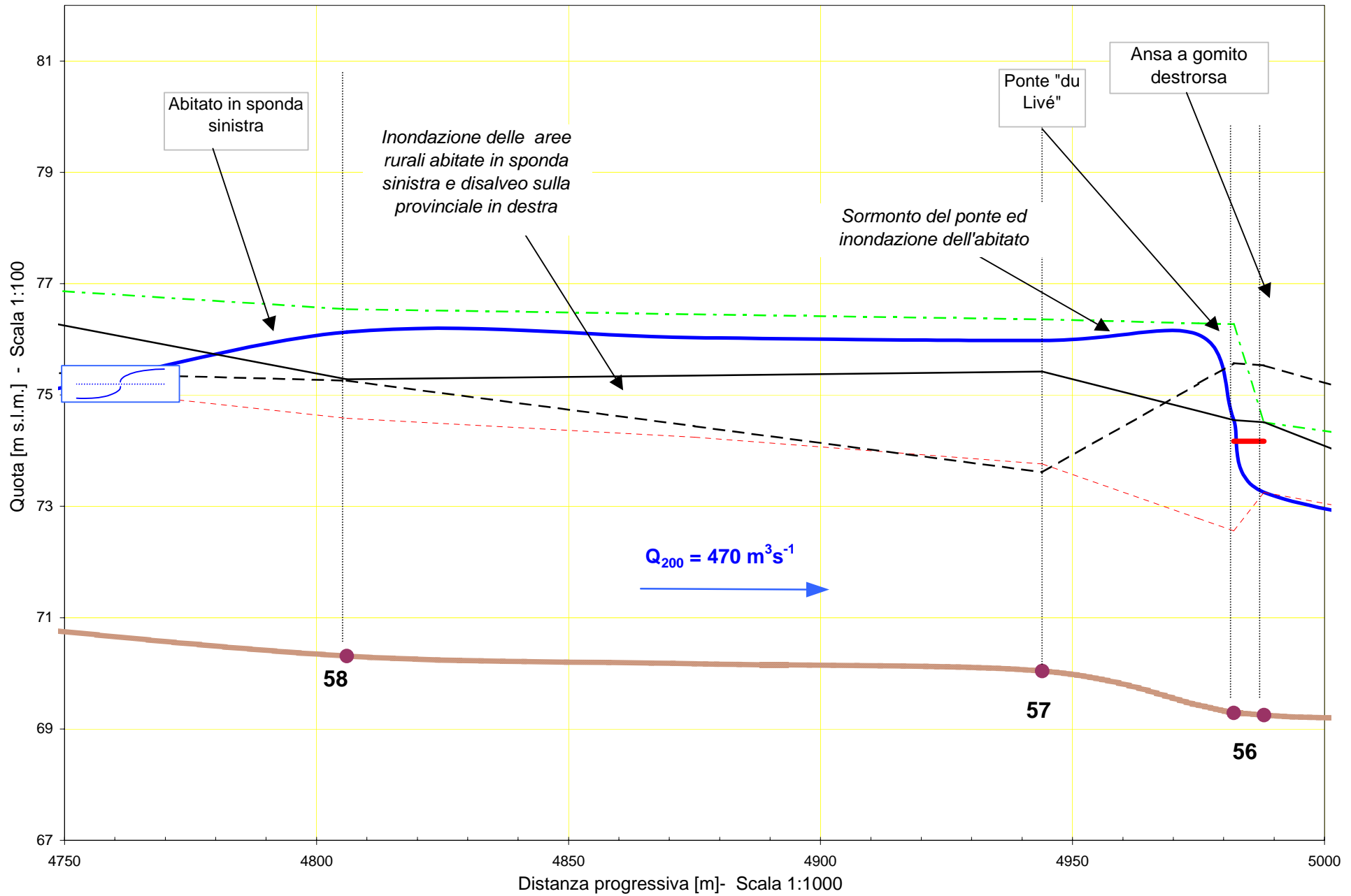
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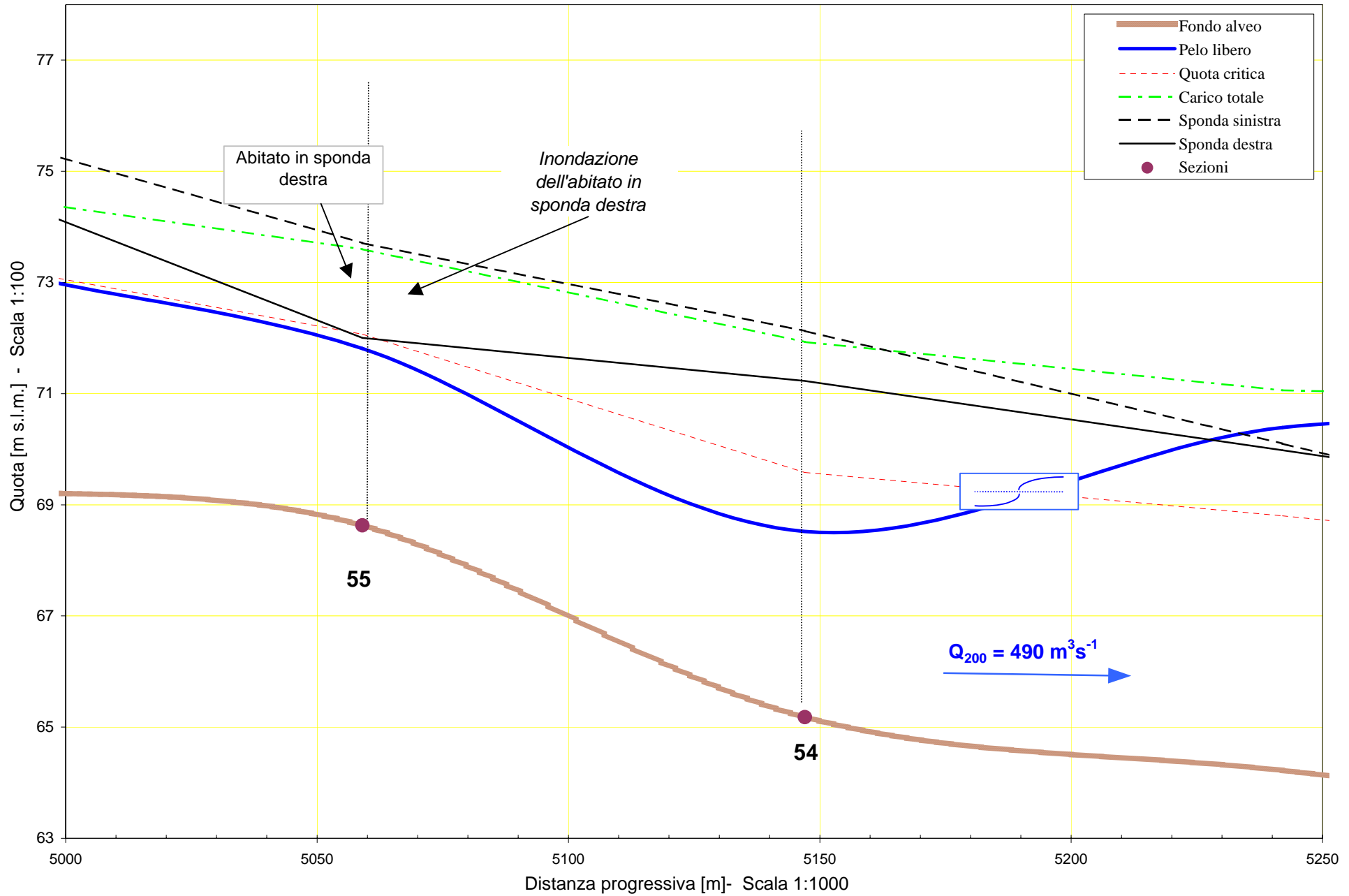
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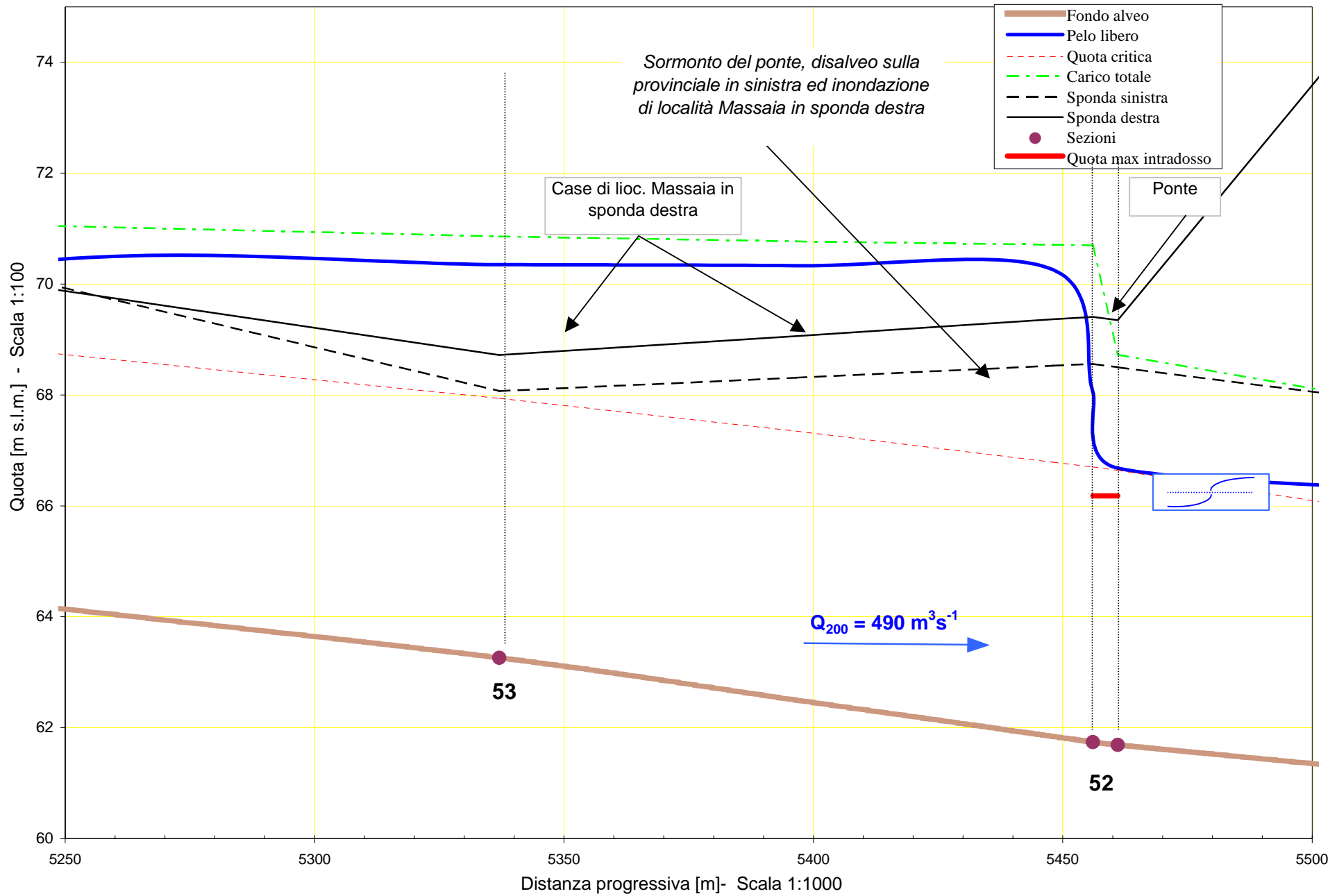
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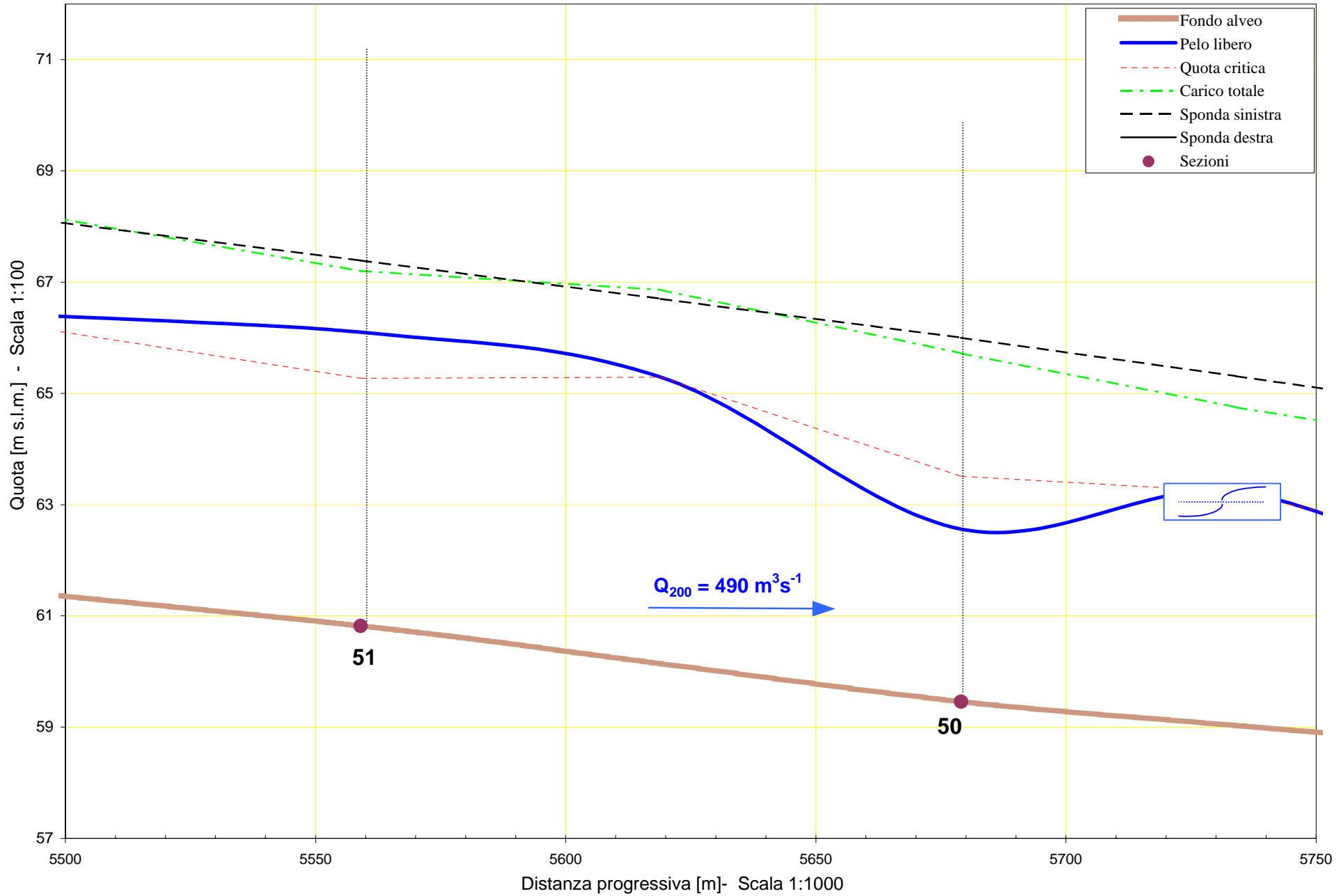
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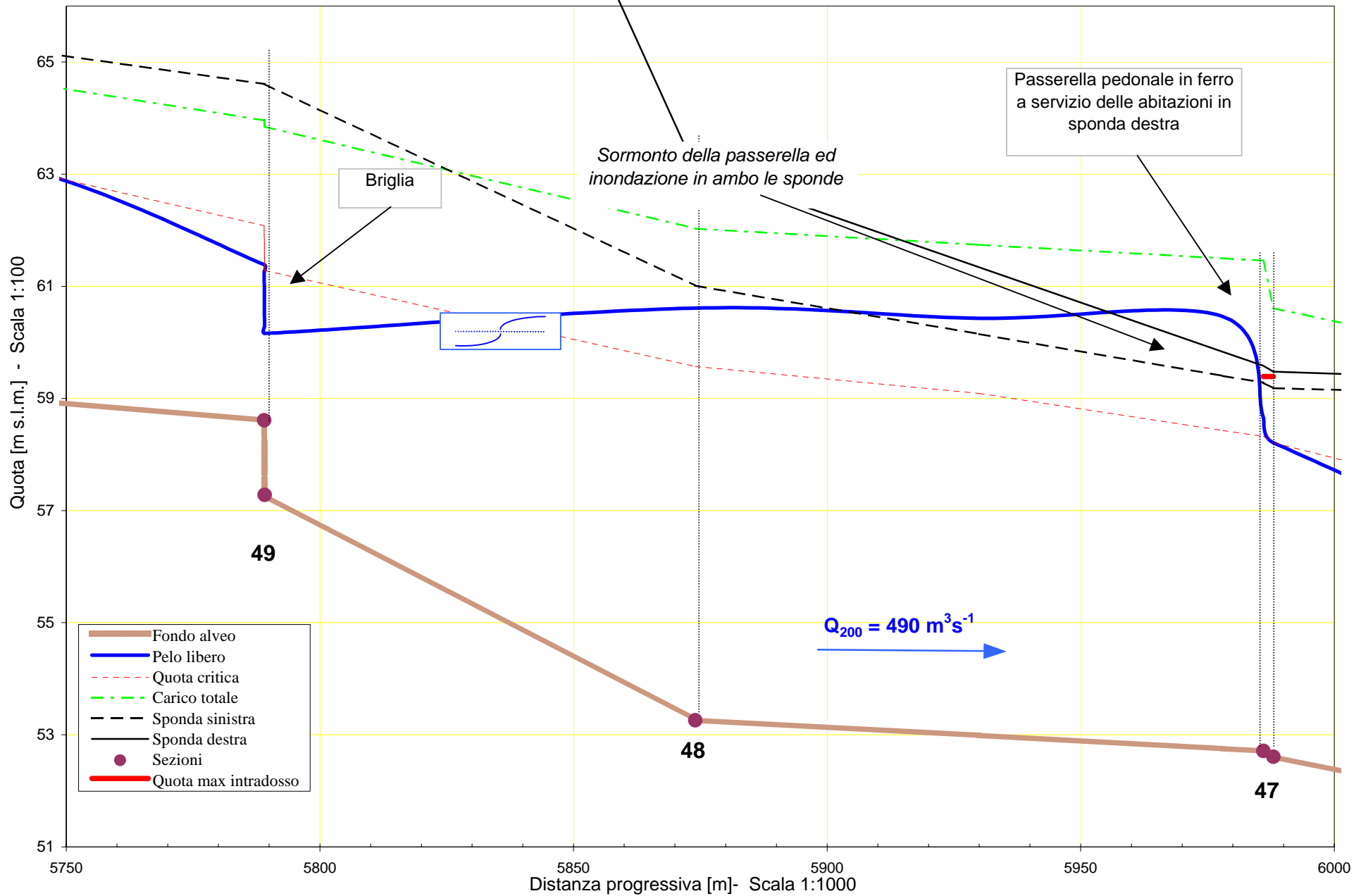
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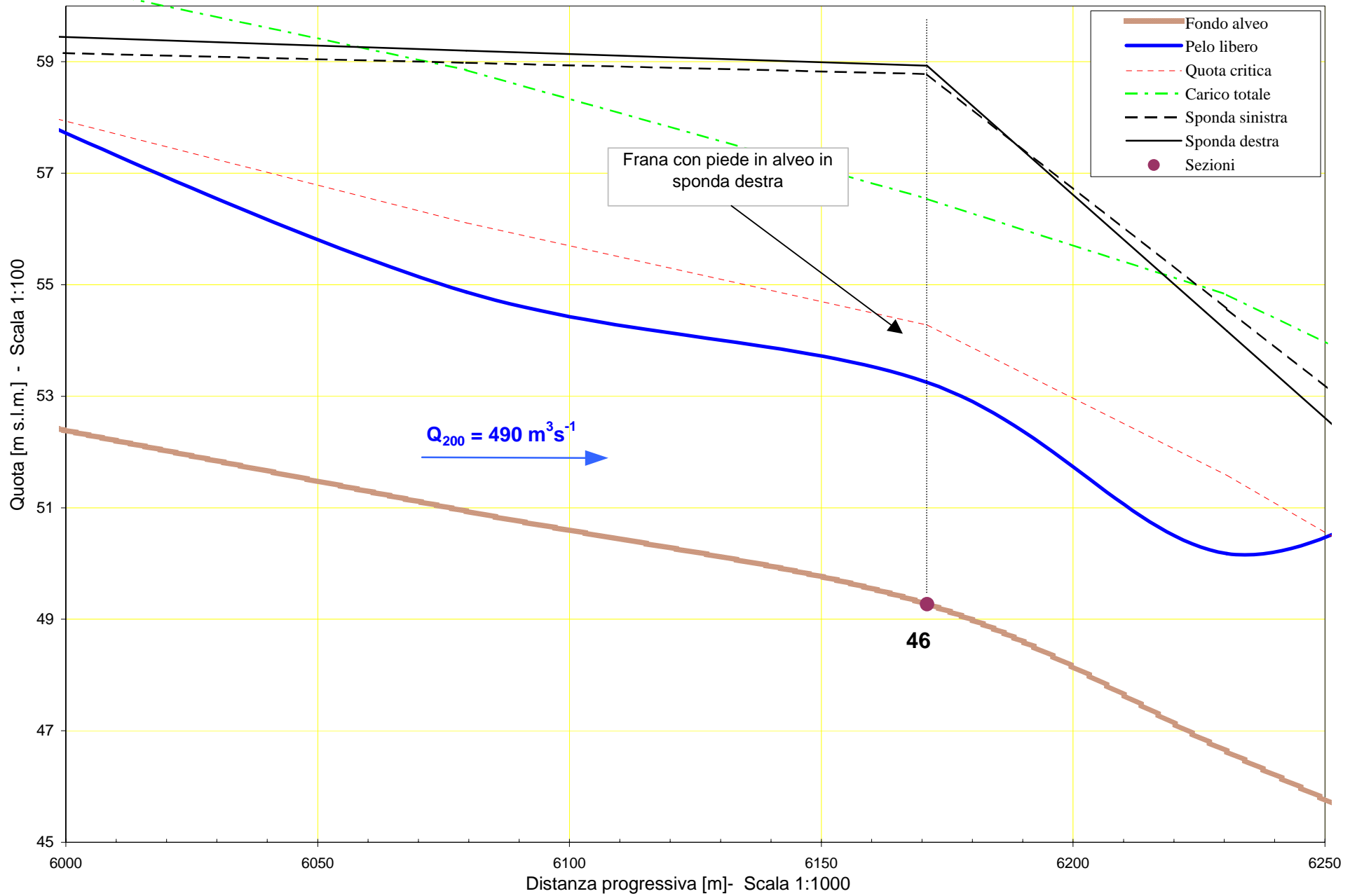
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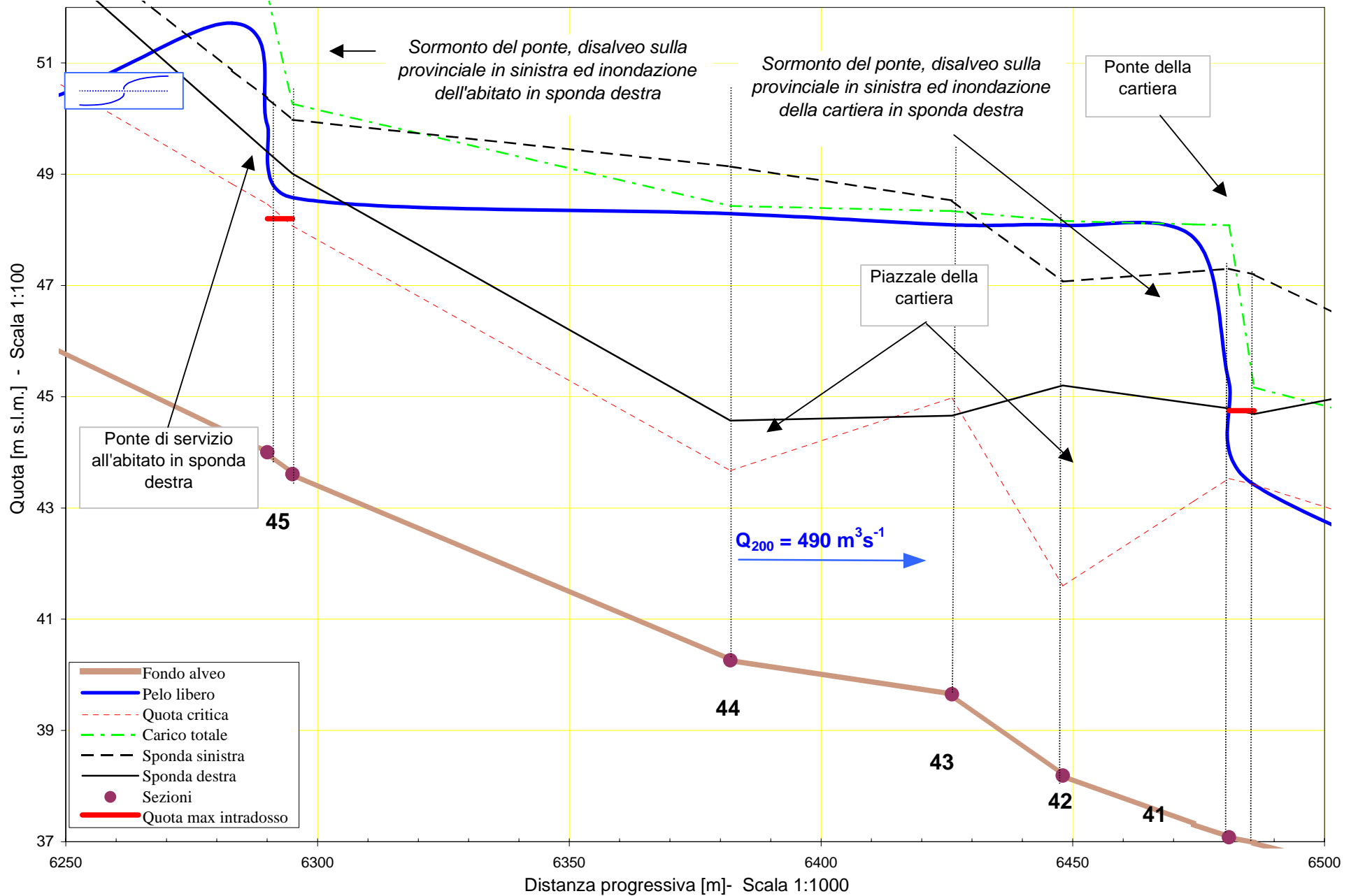
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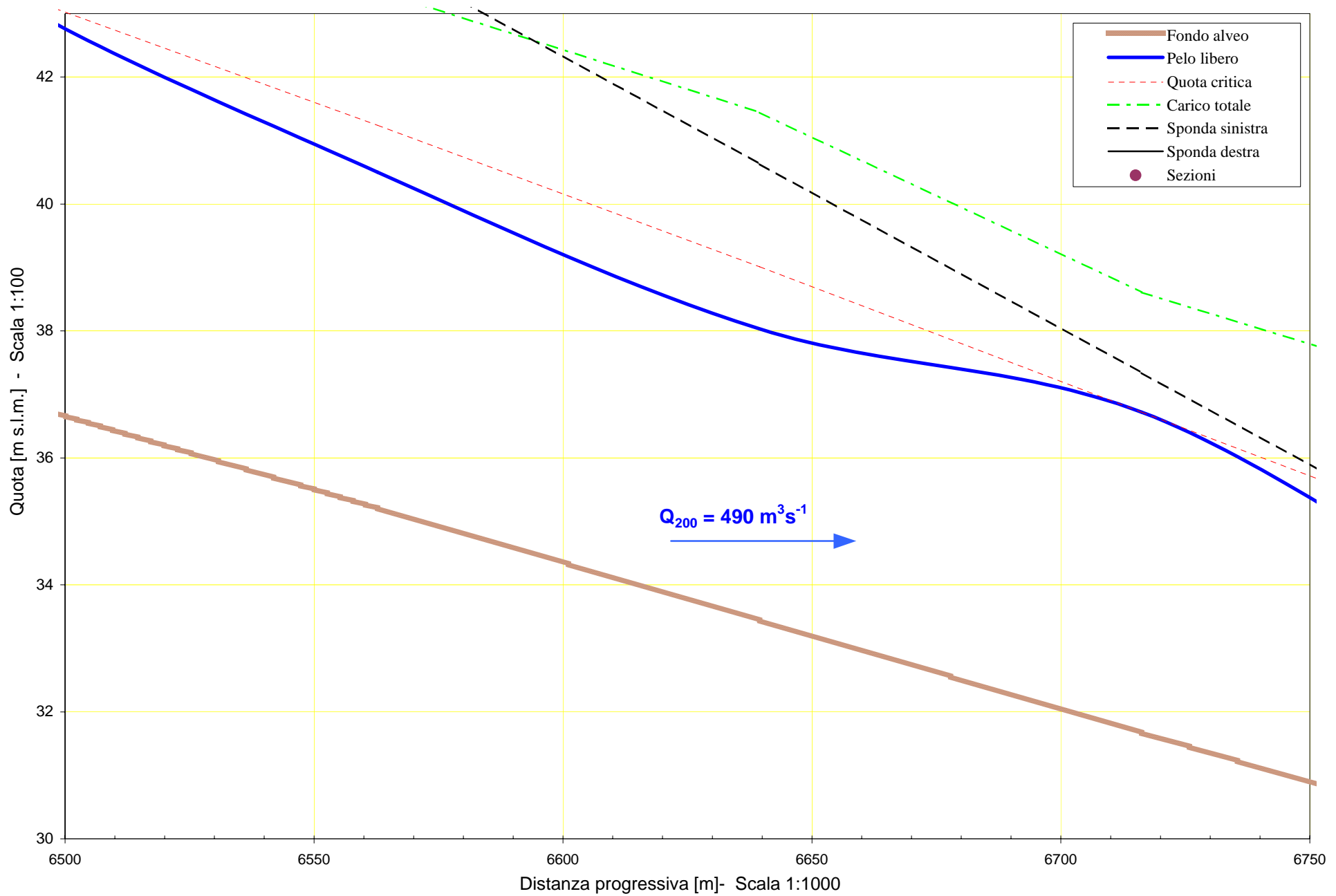
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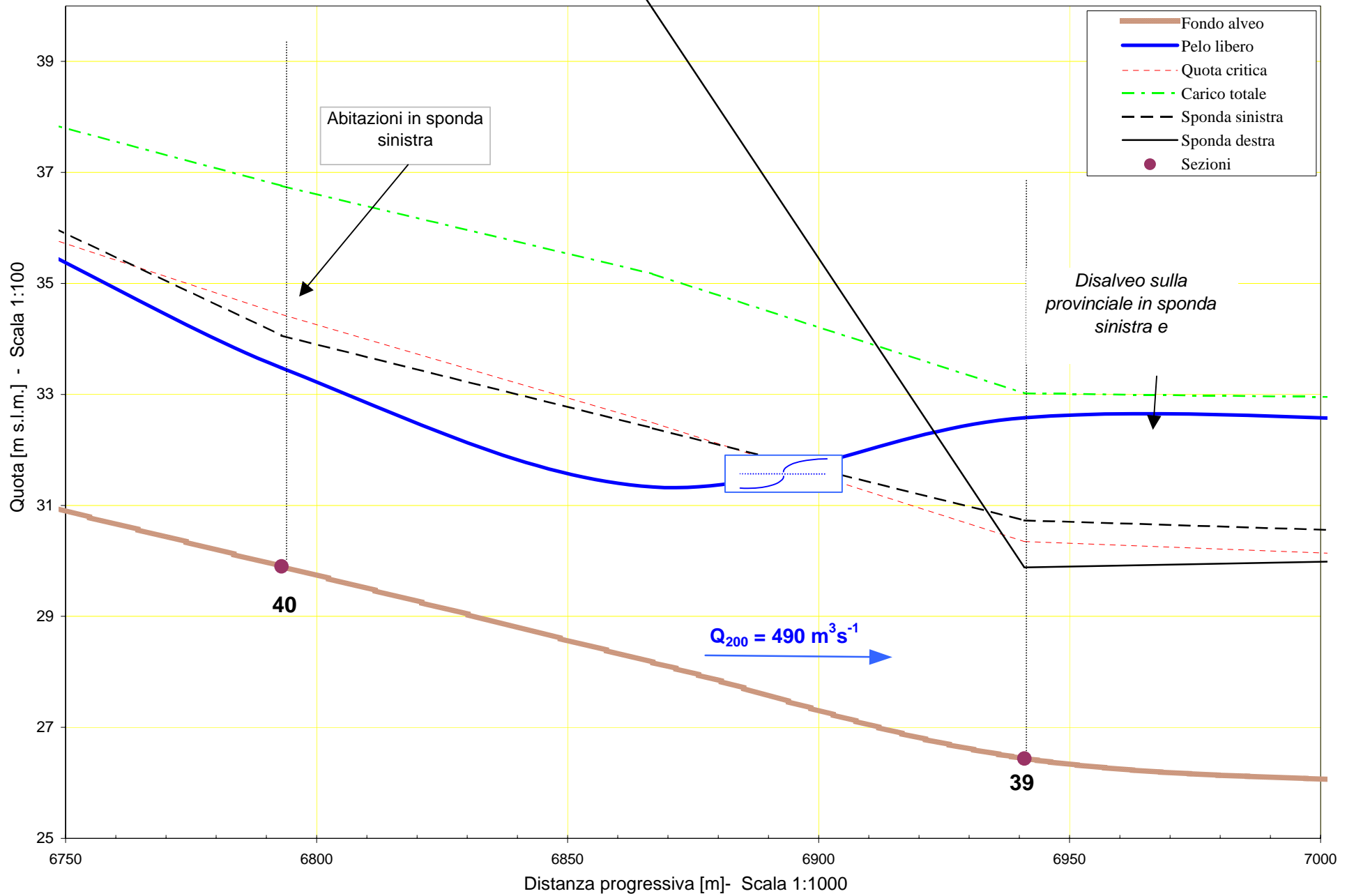
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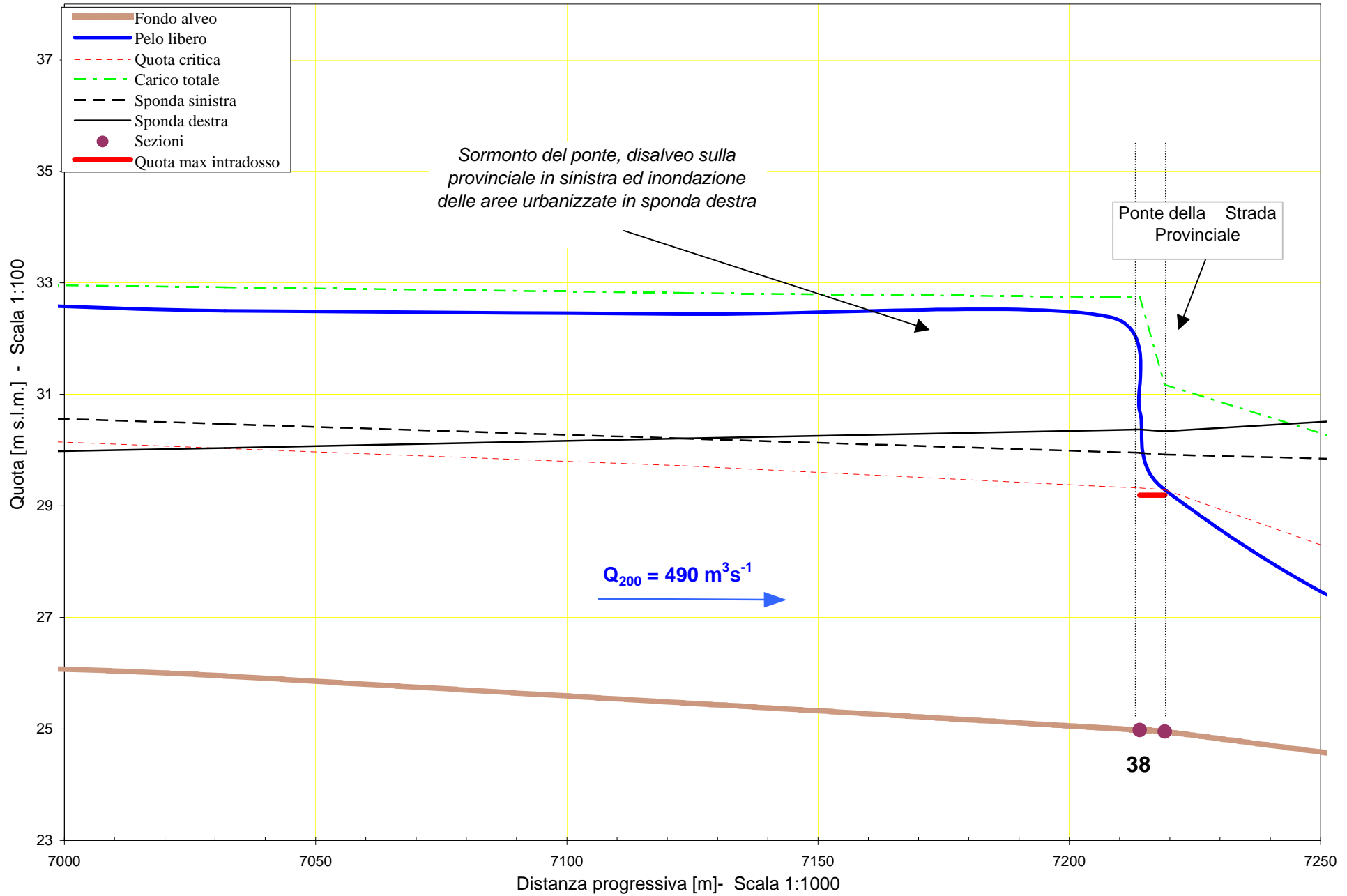
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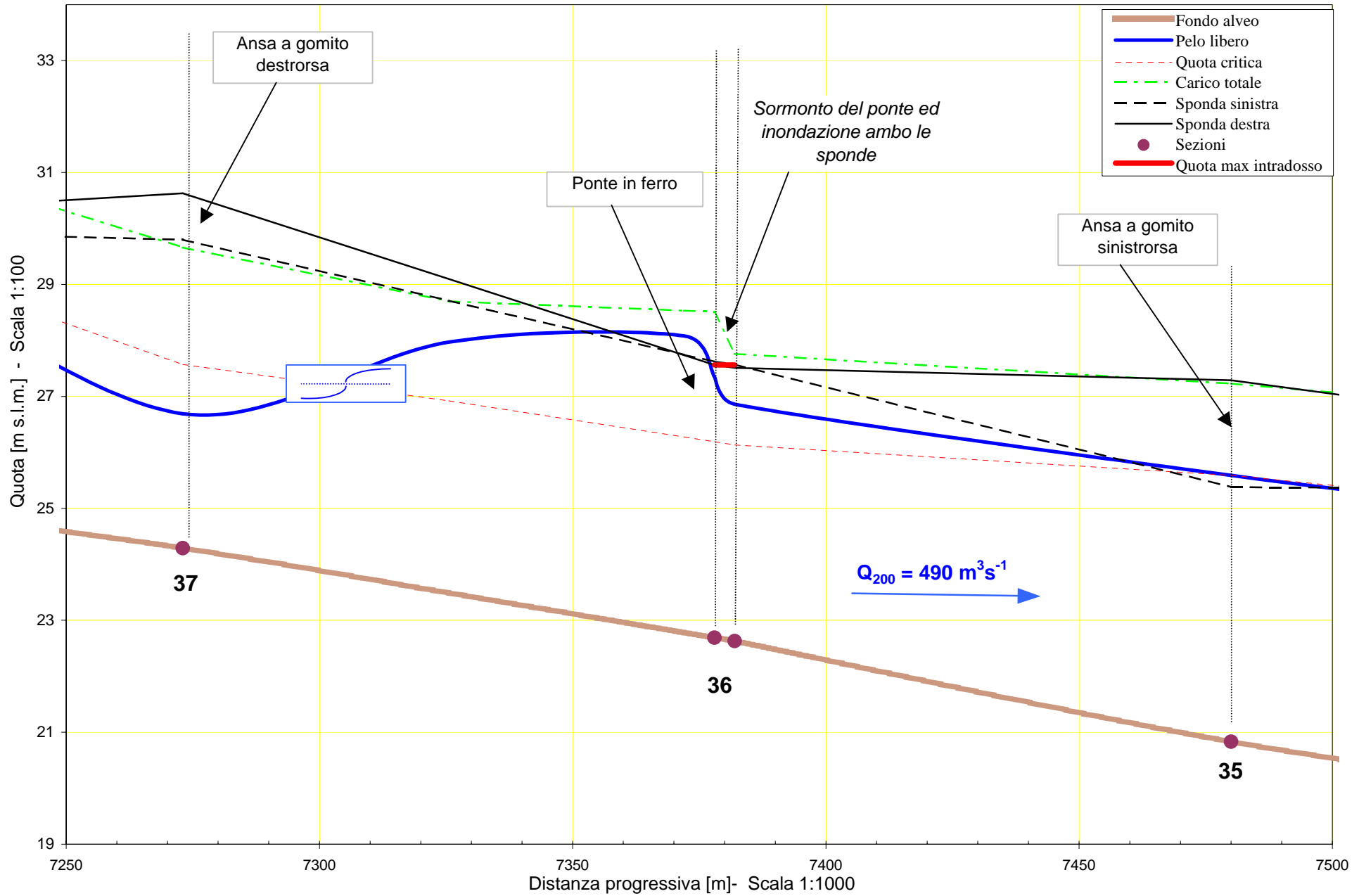
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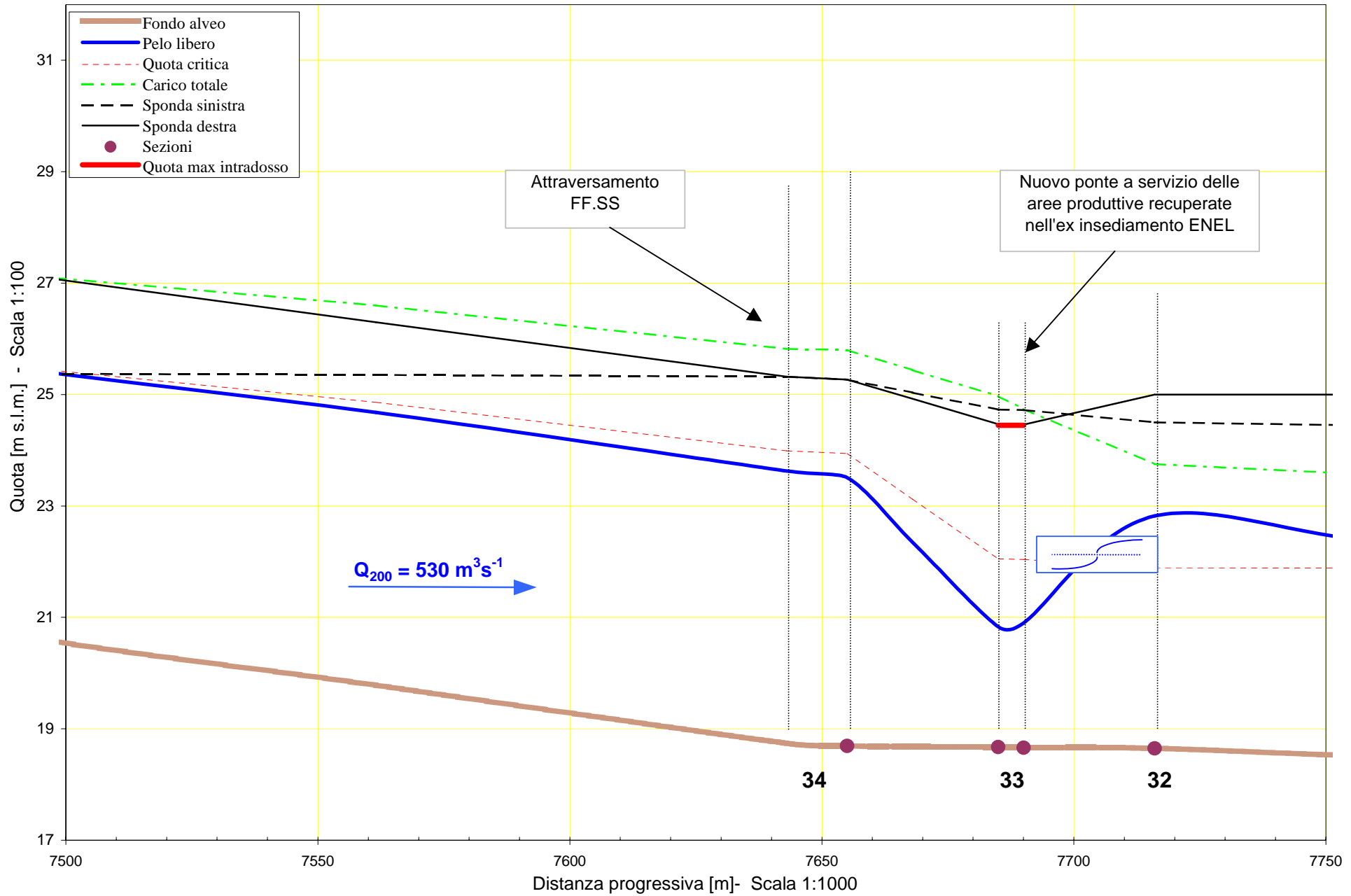
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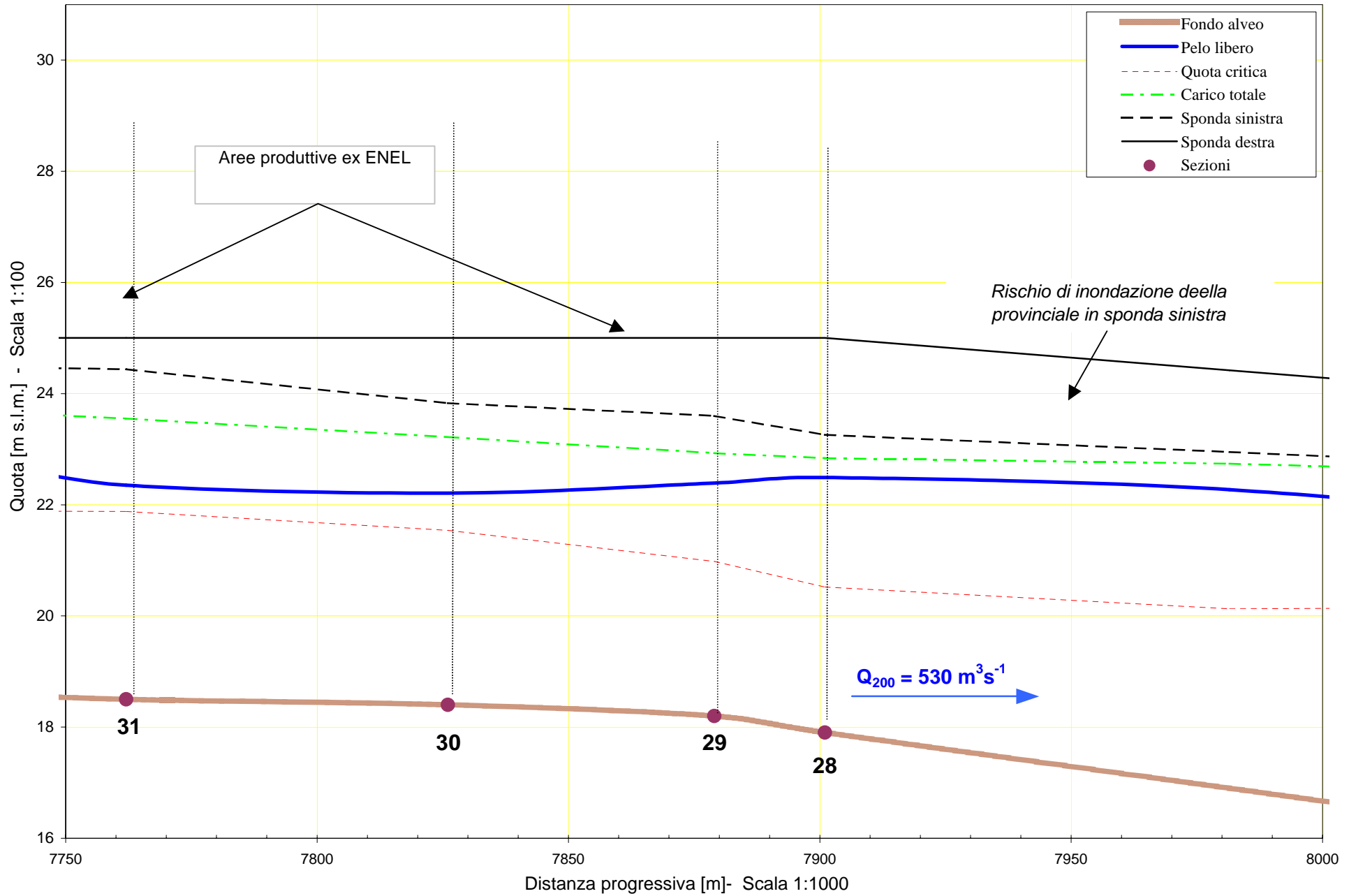
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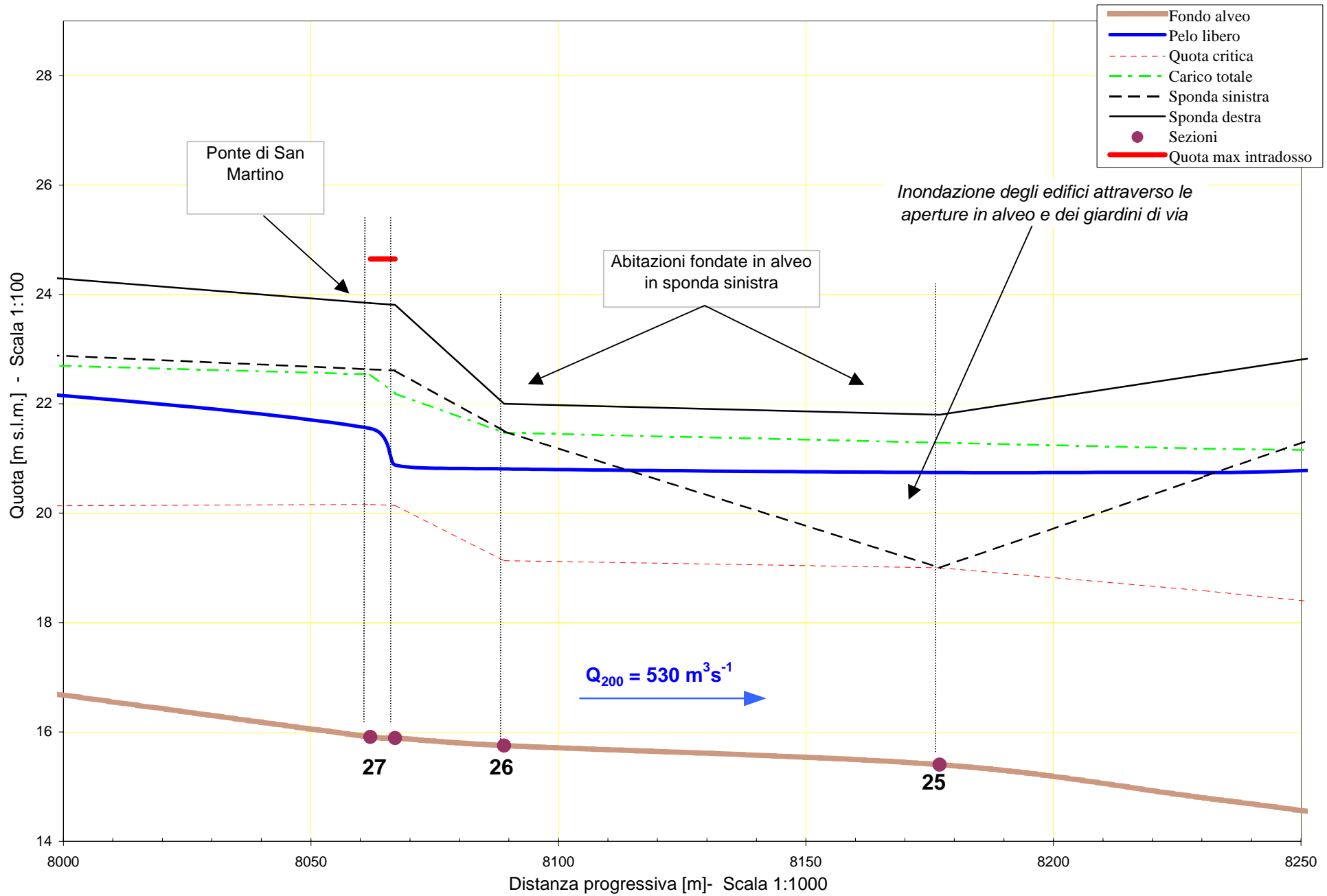
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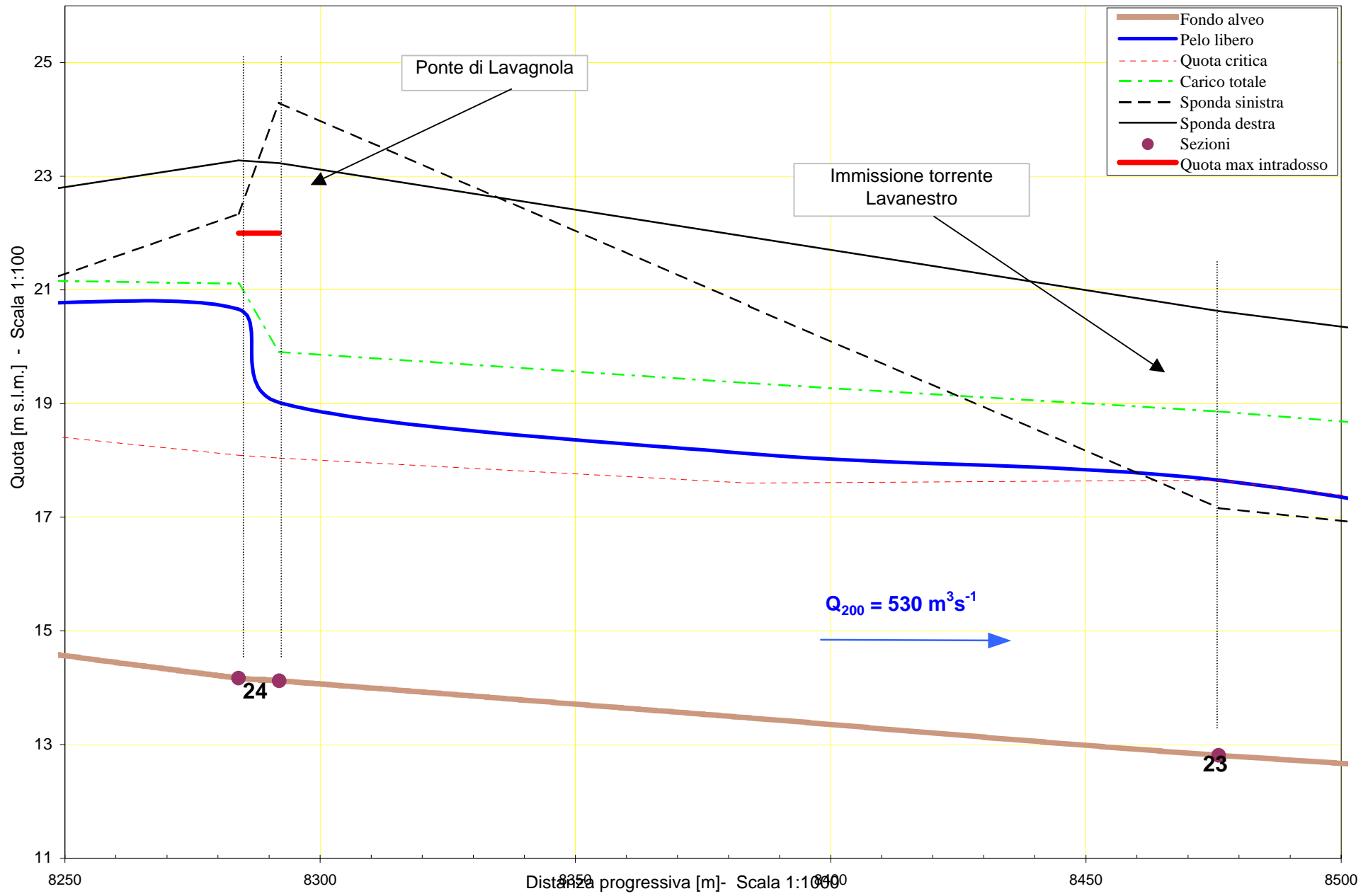
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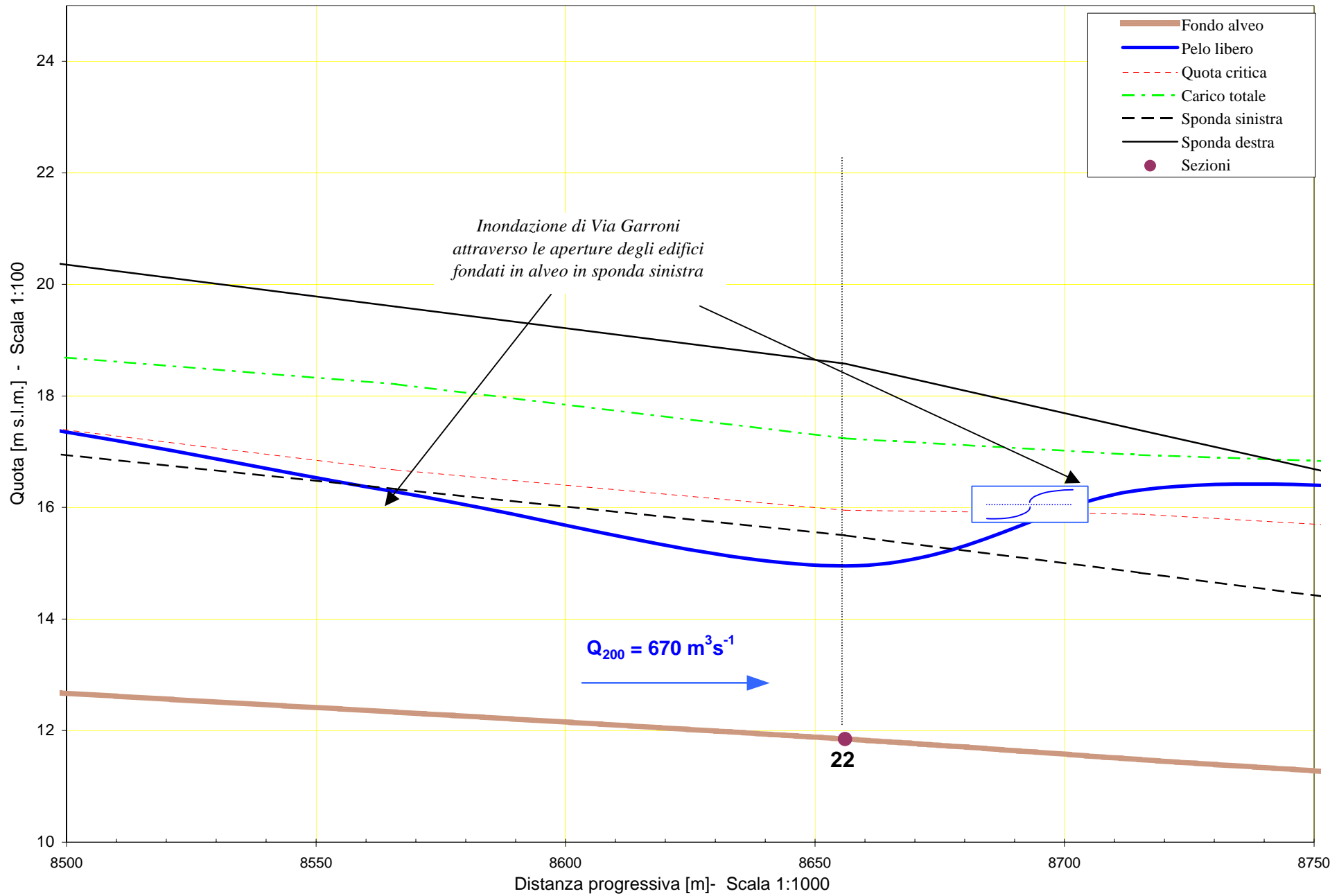
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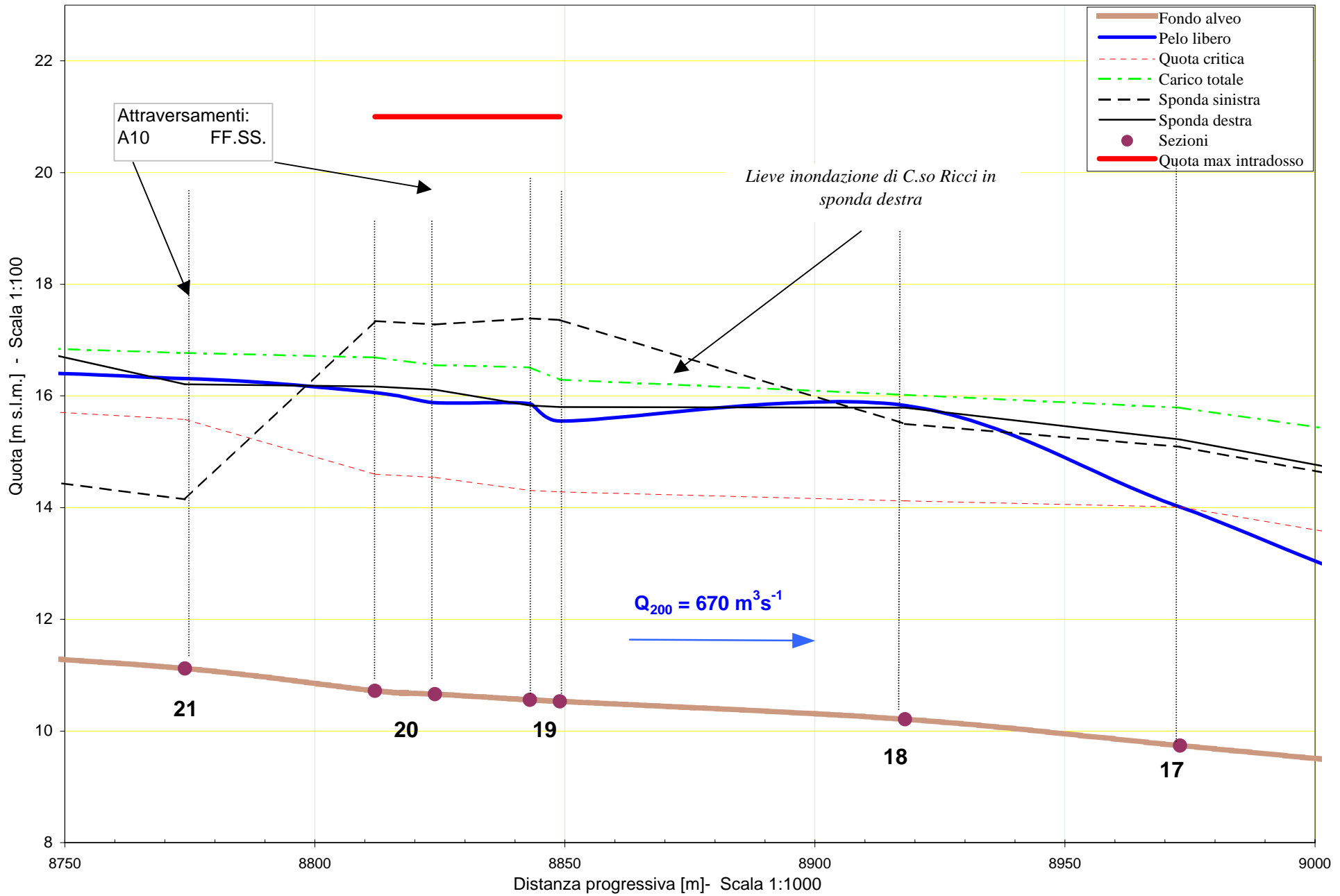
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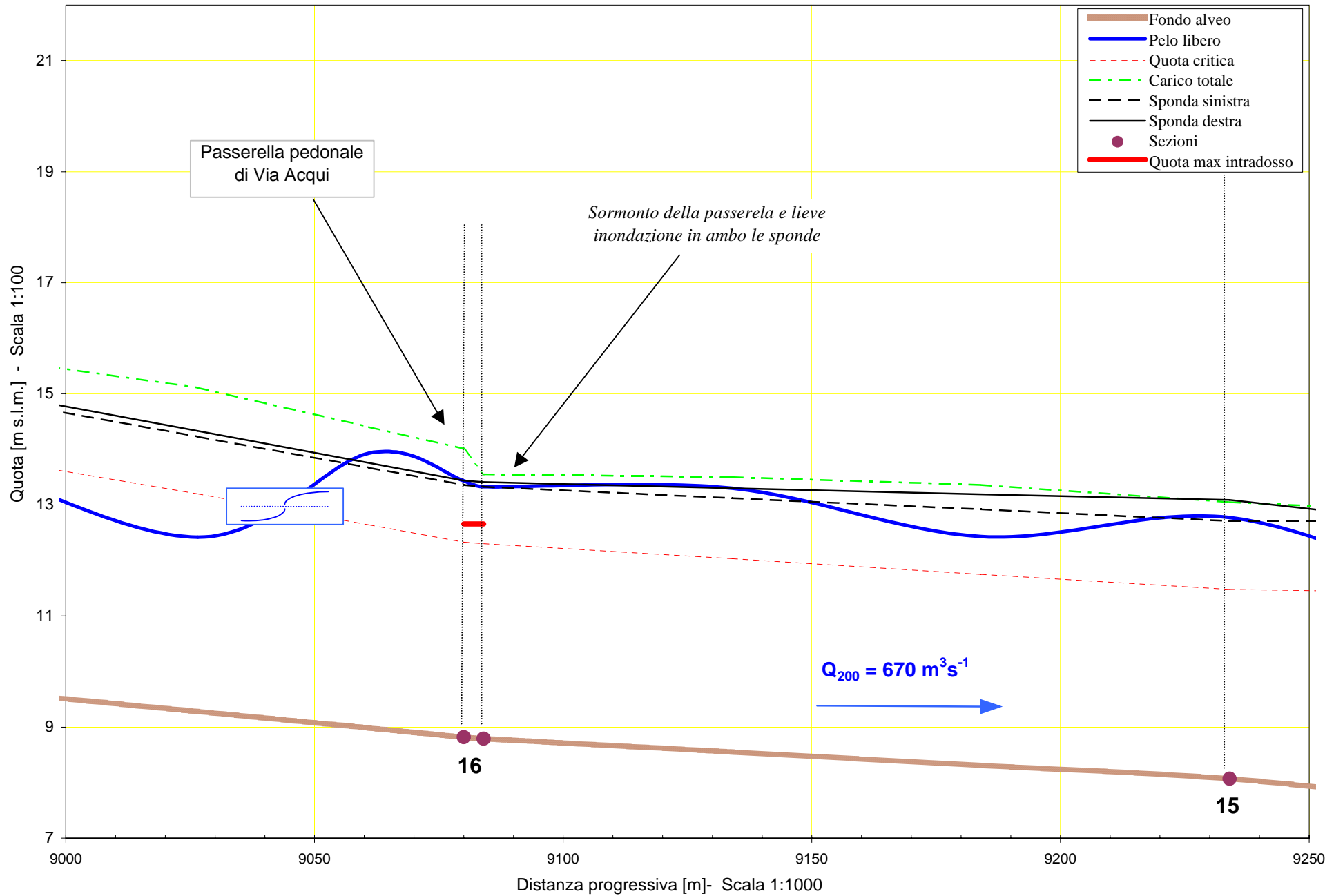
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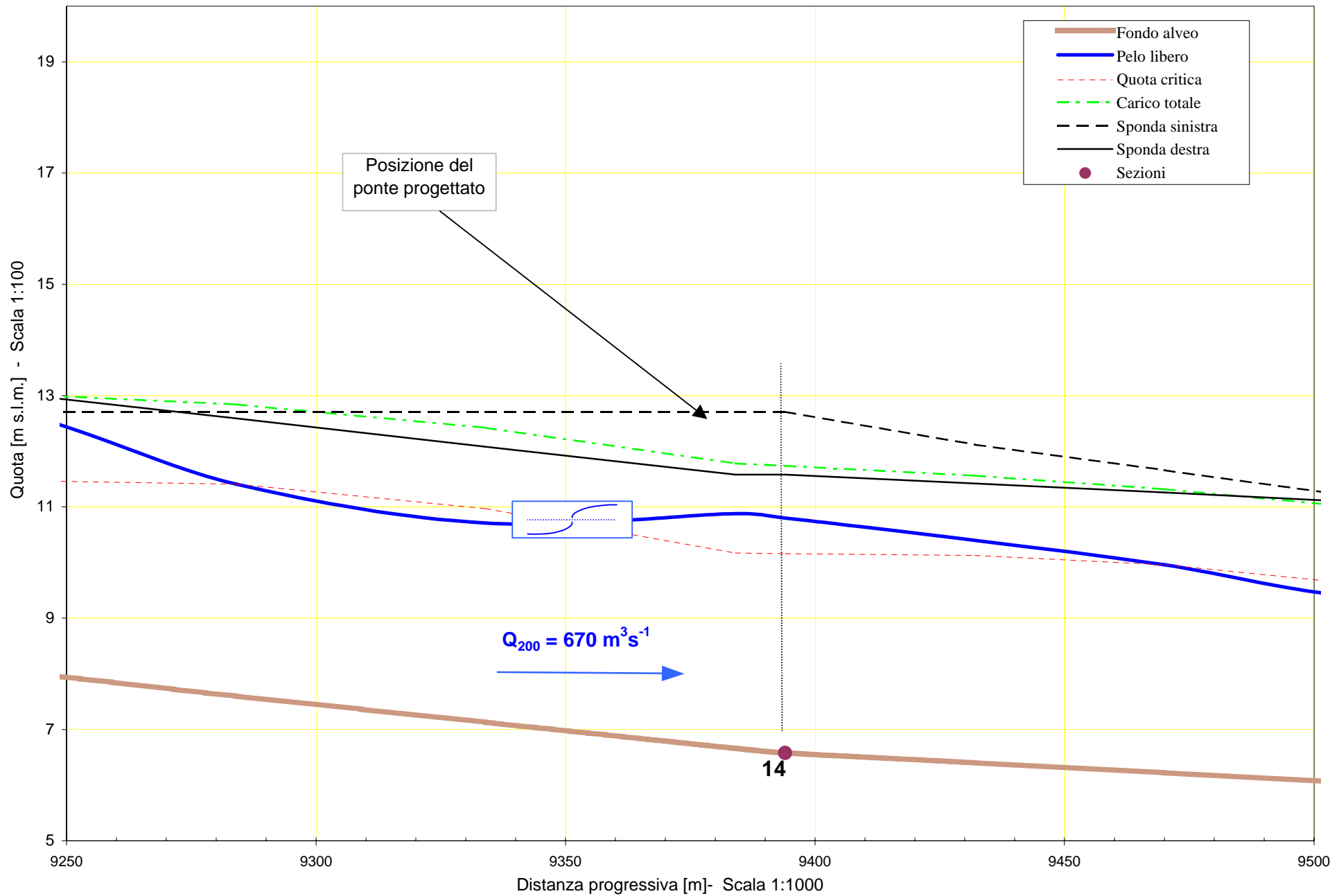
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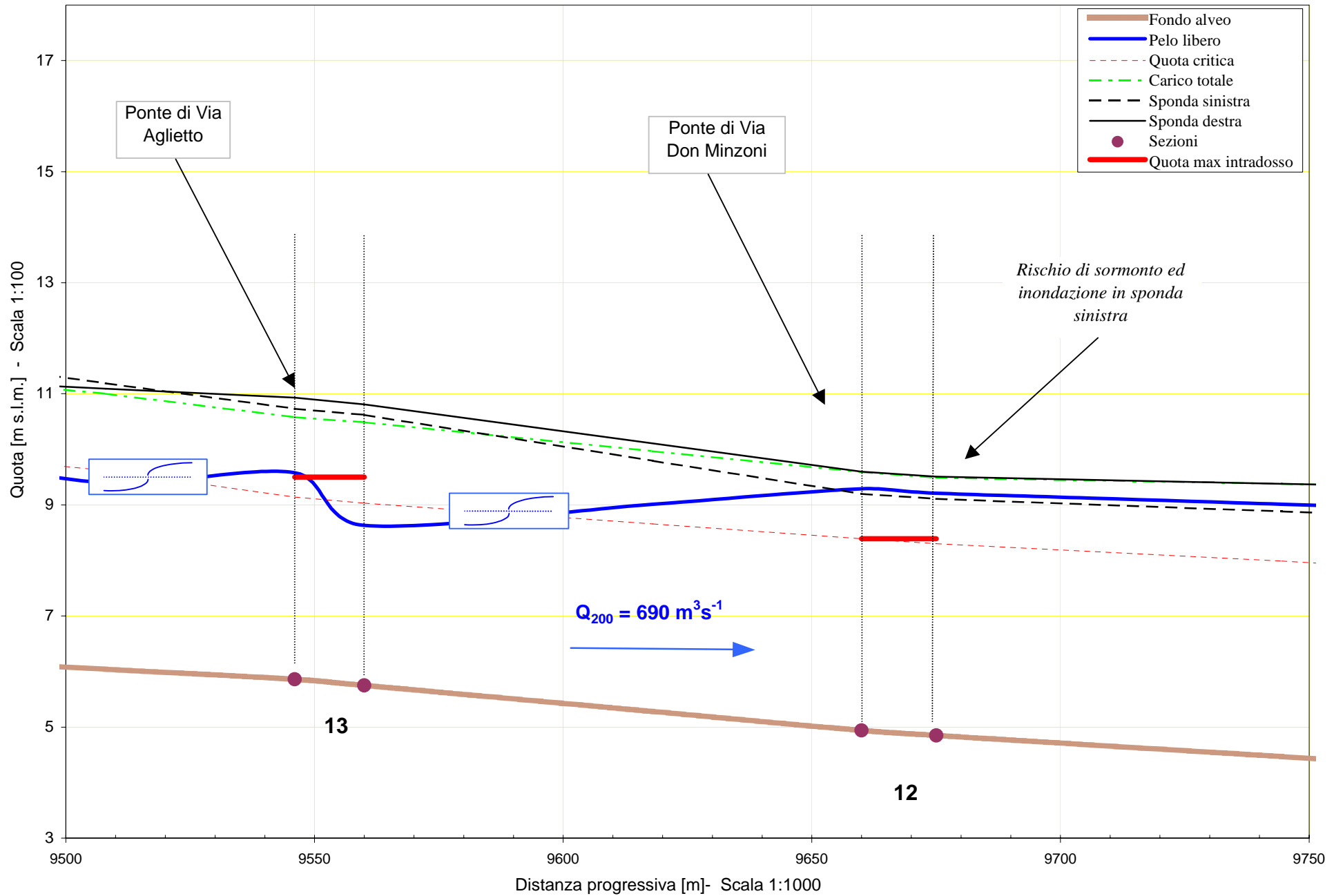
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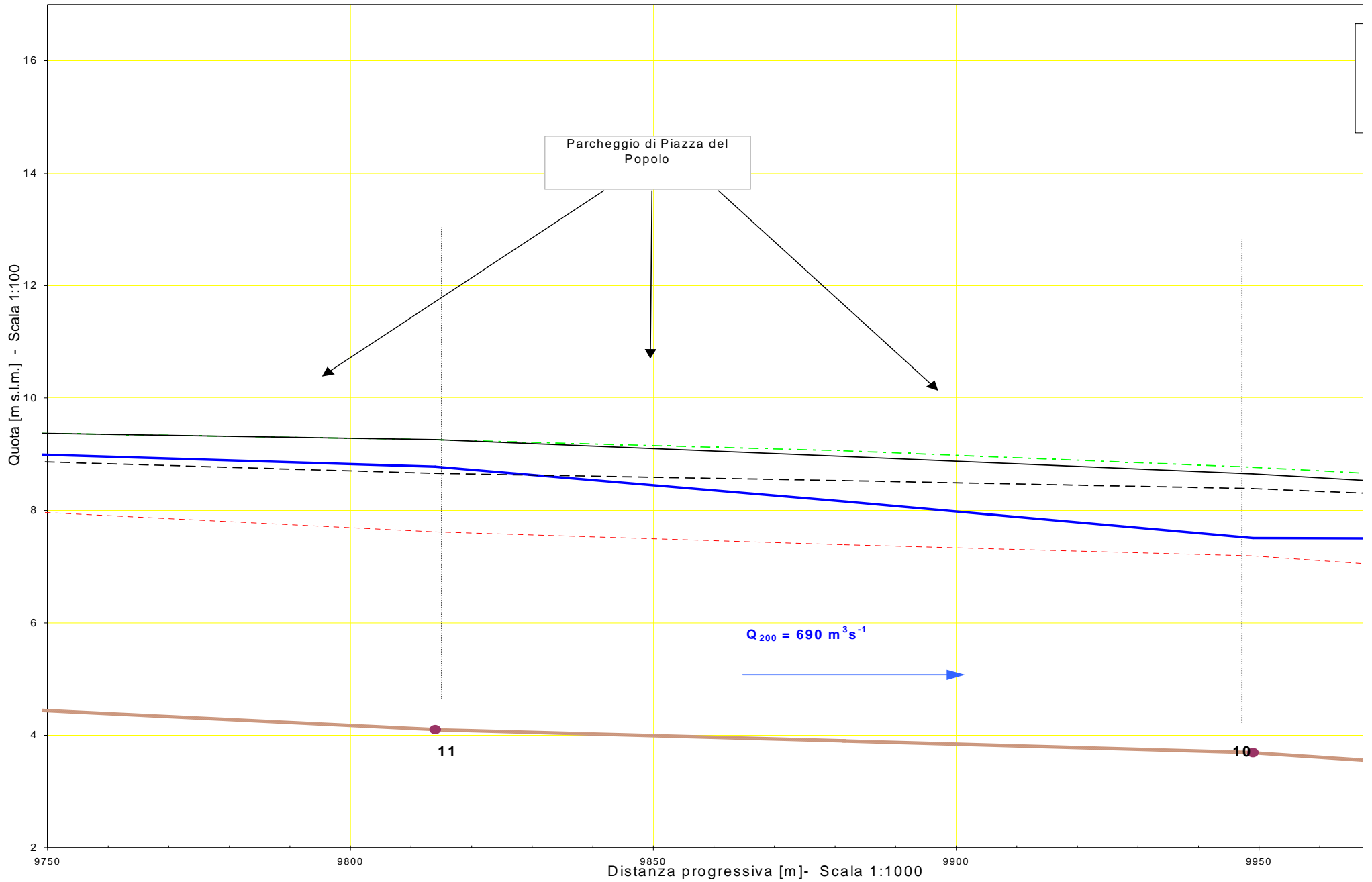
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 200 anni



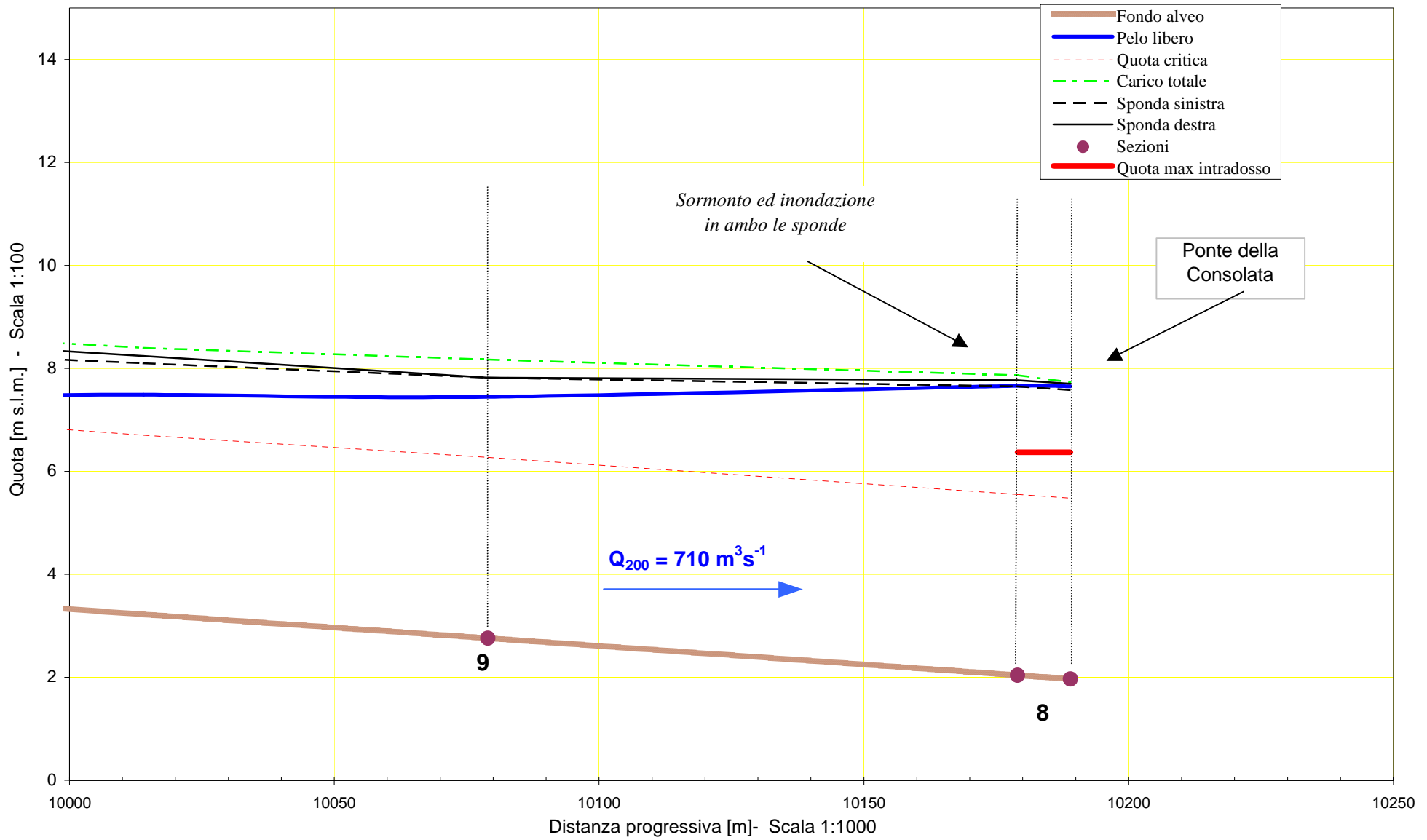
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 200 anni



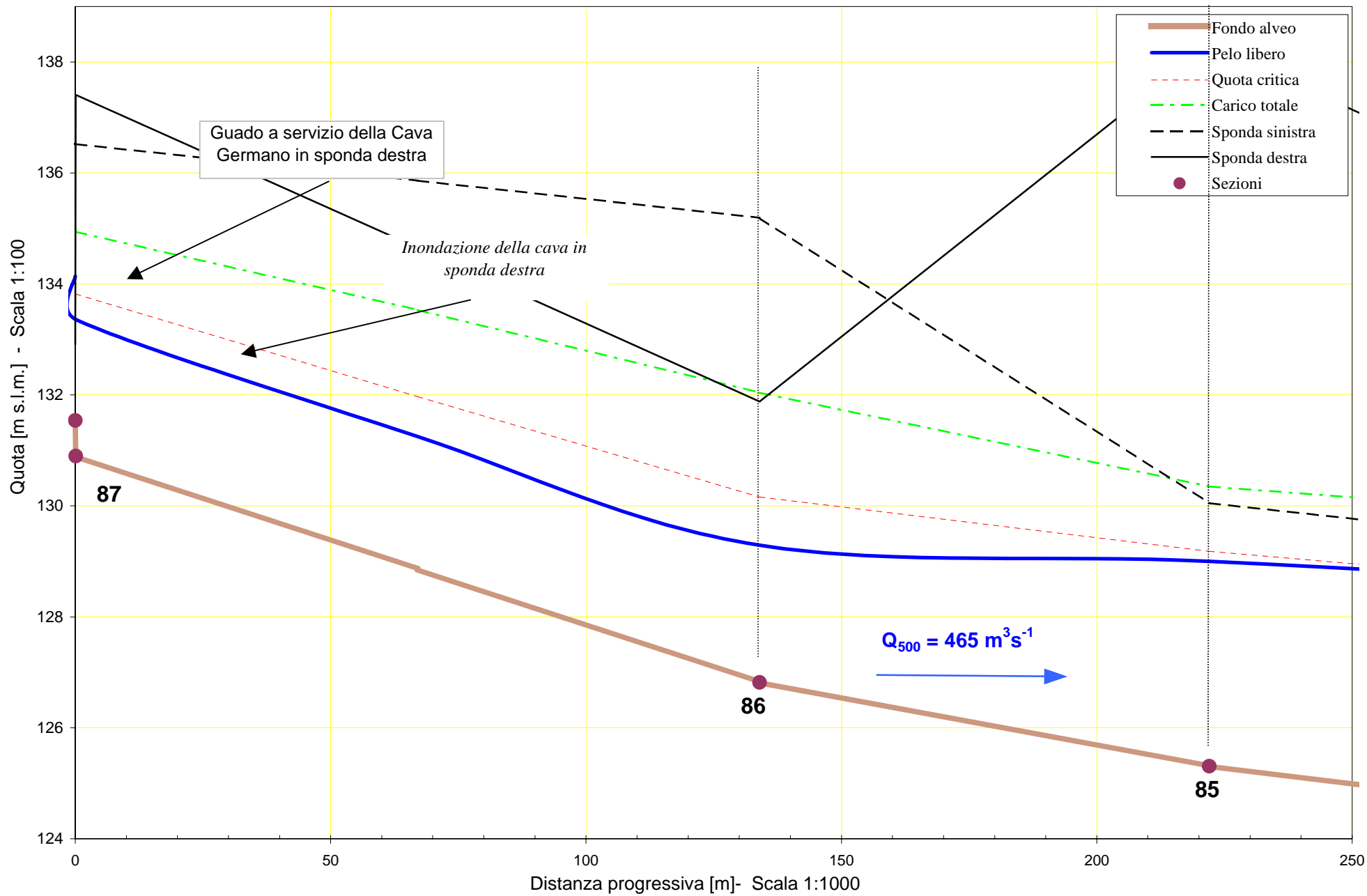
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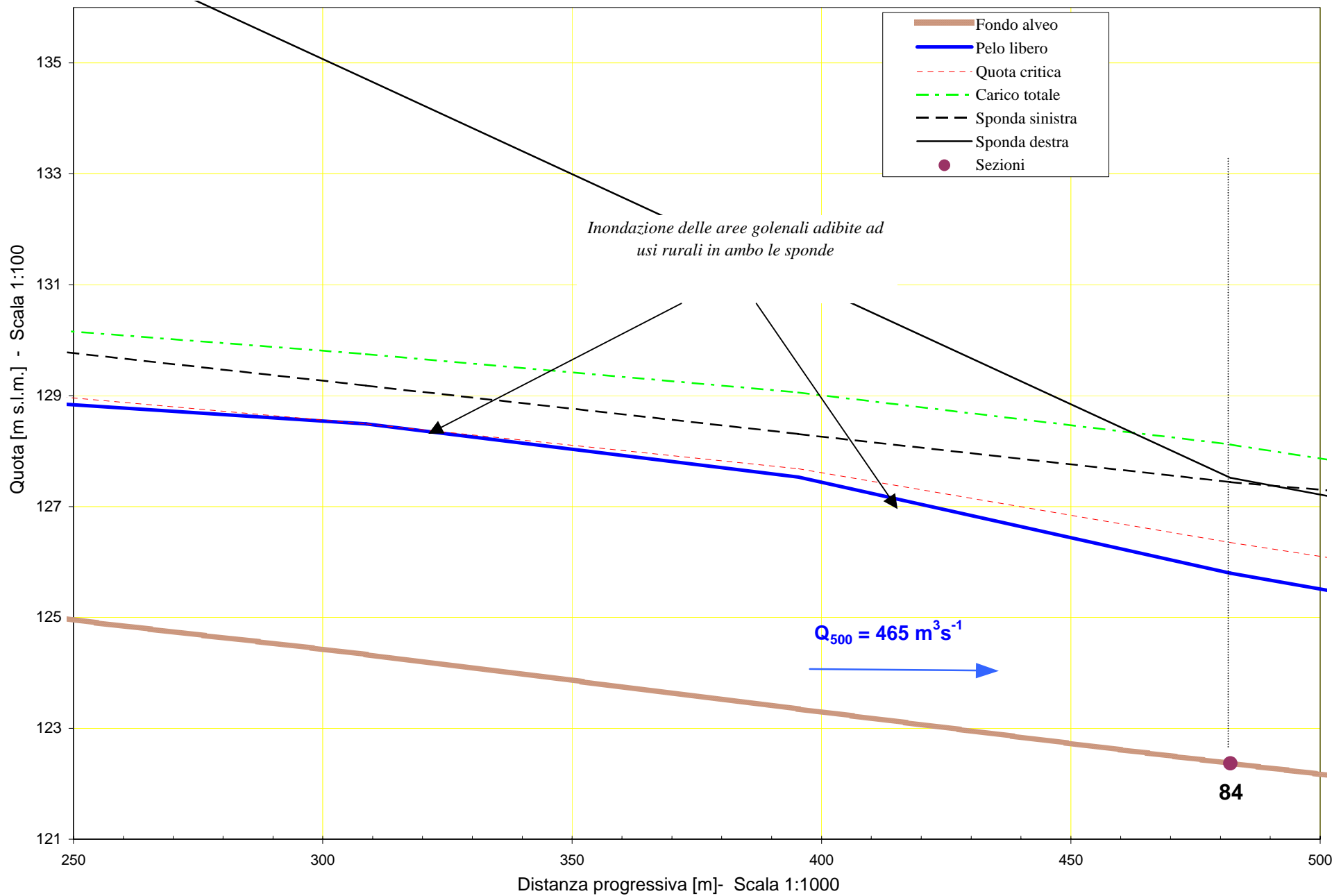
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 200 anni



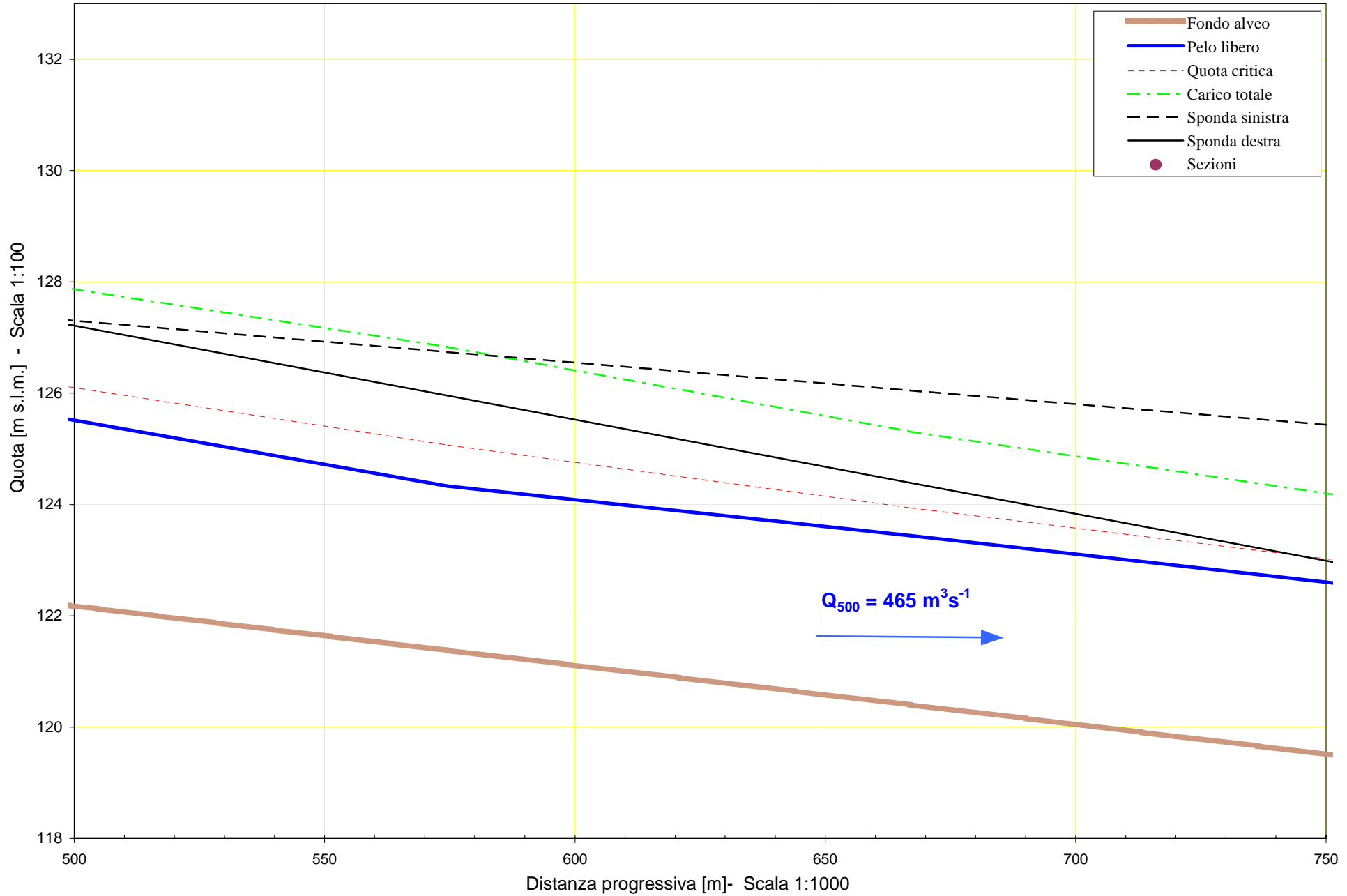
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



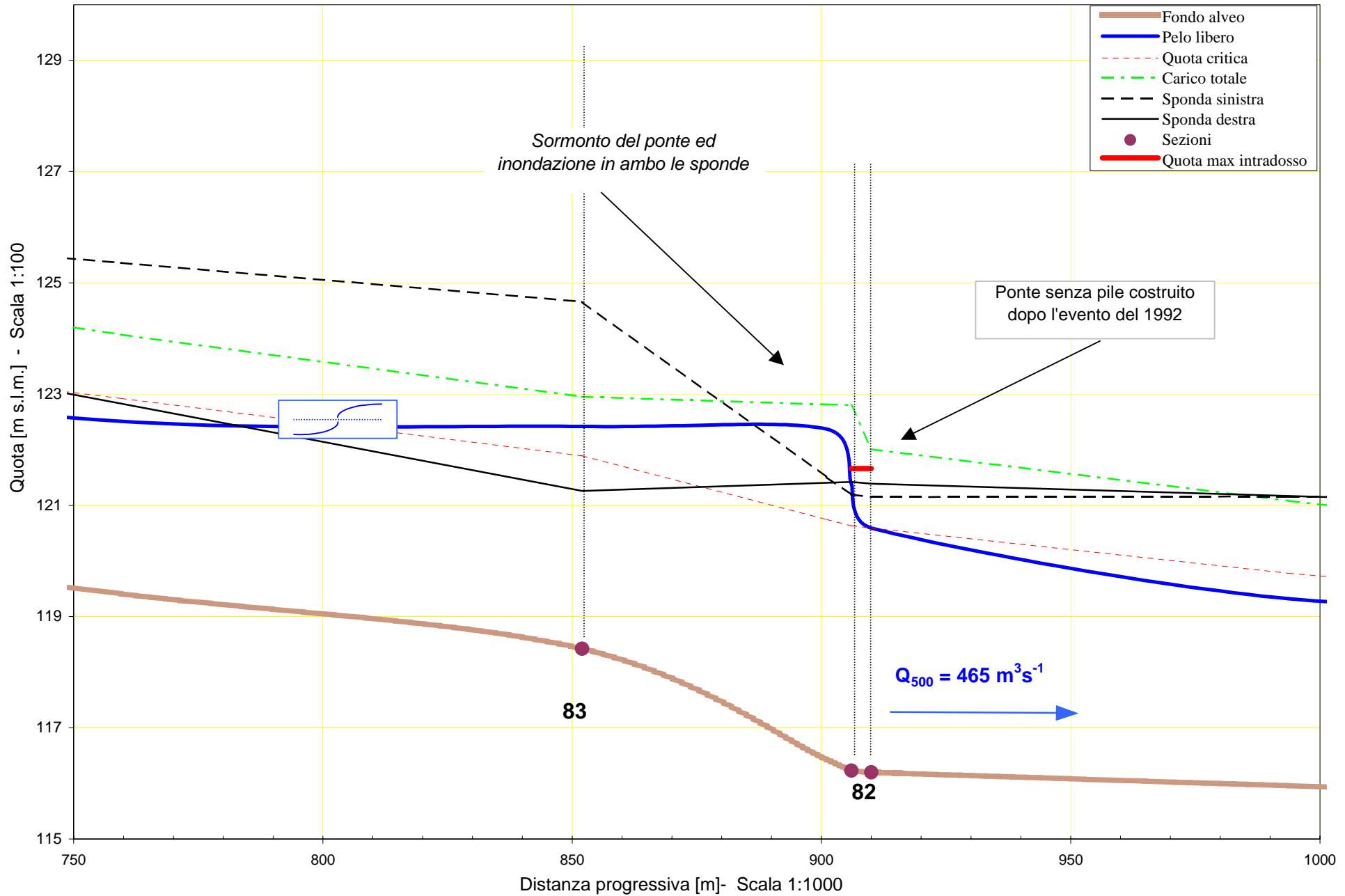
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



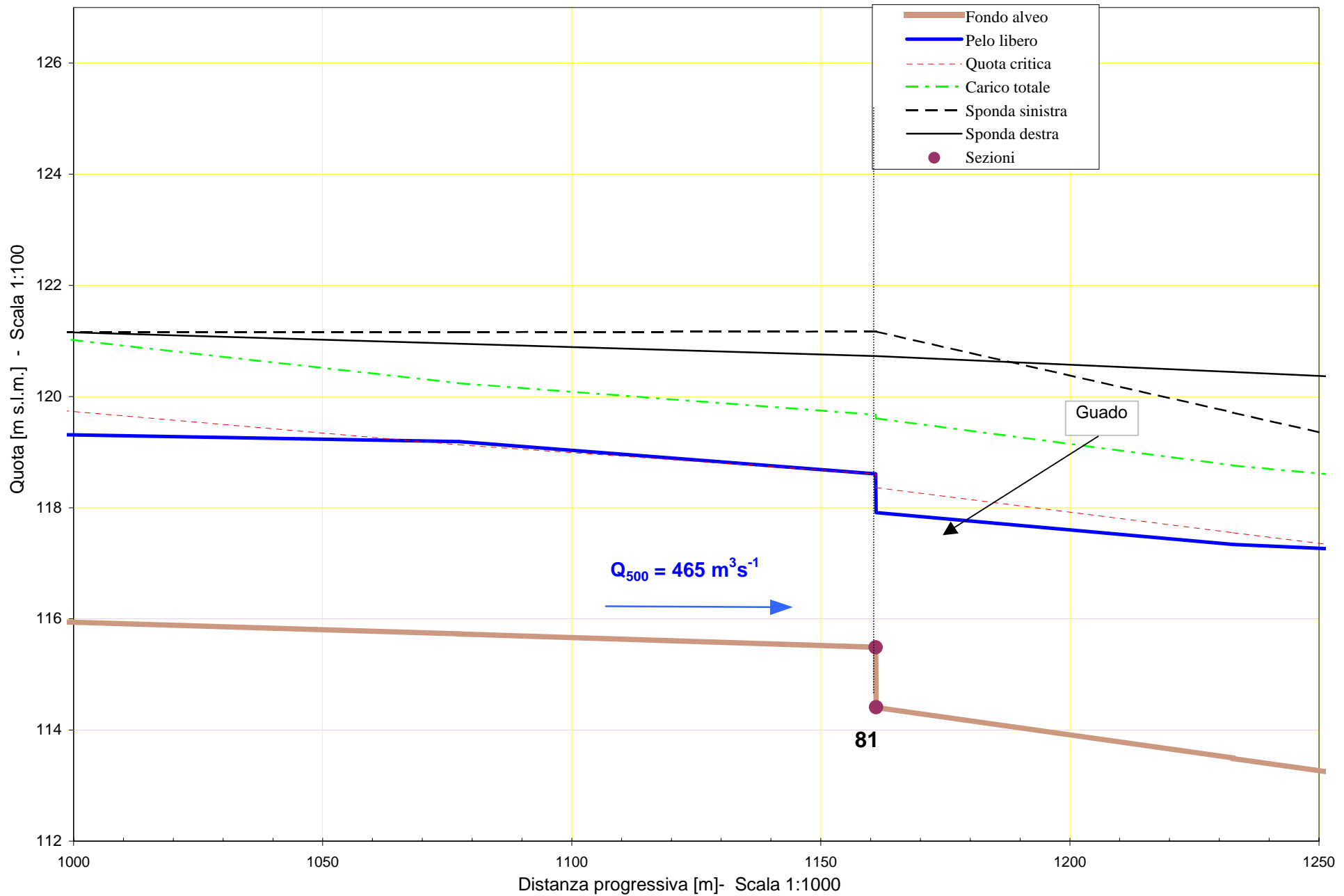
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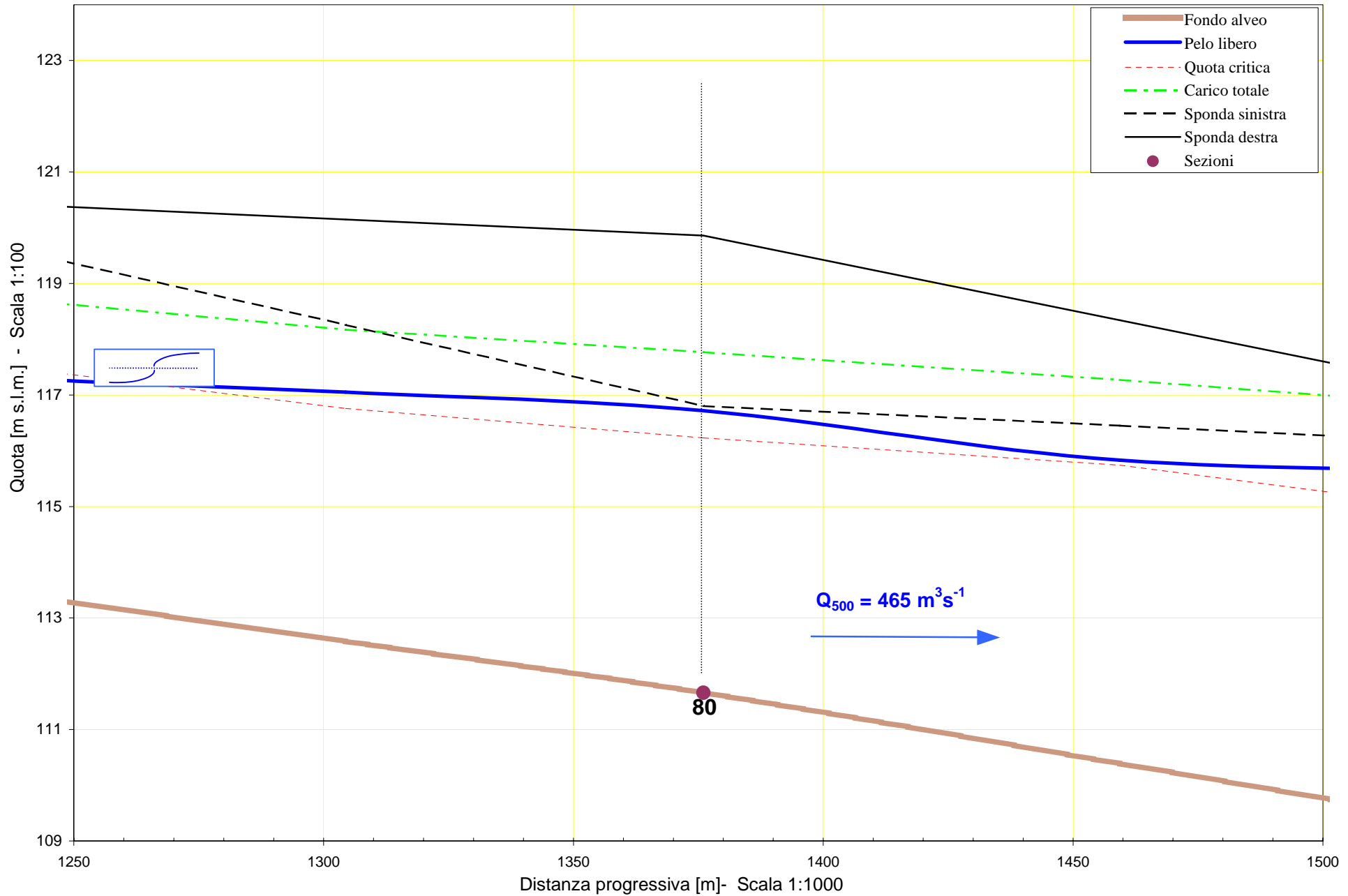
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



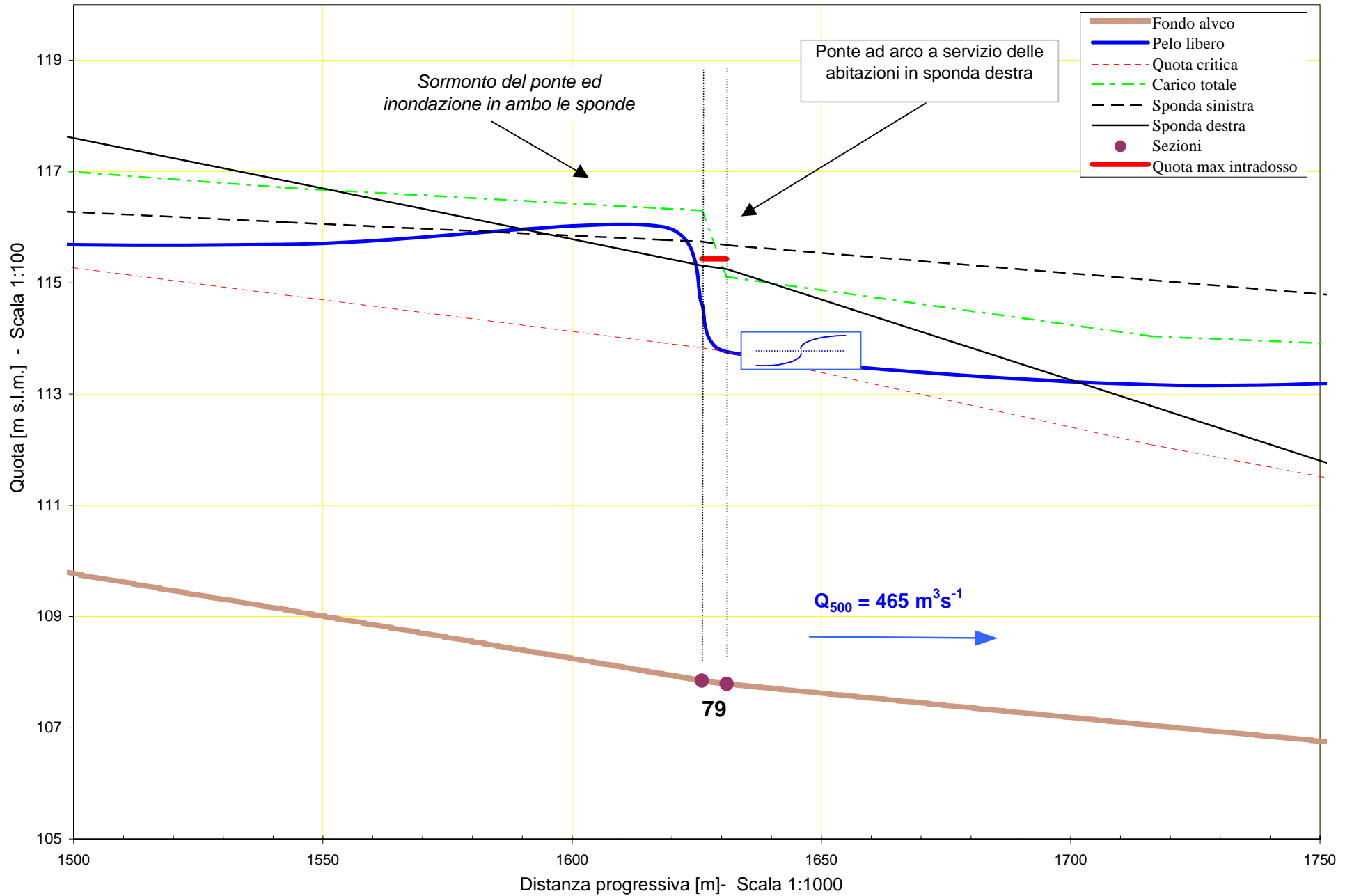
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



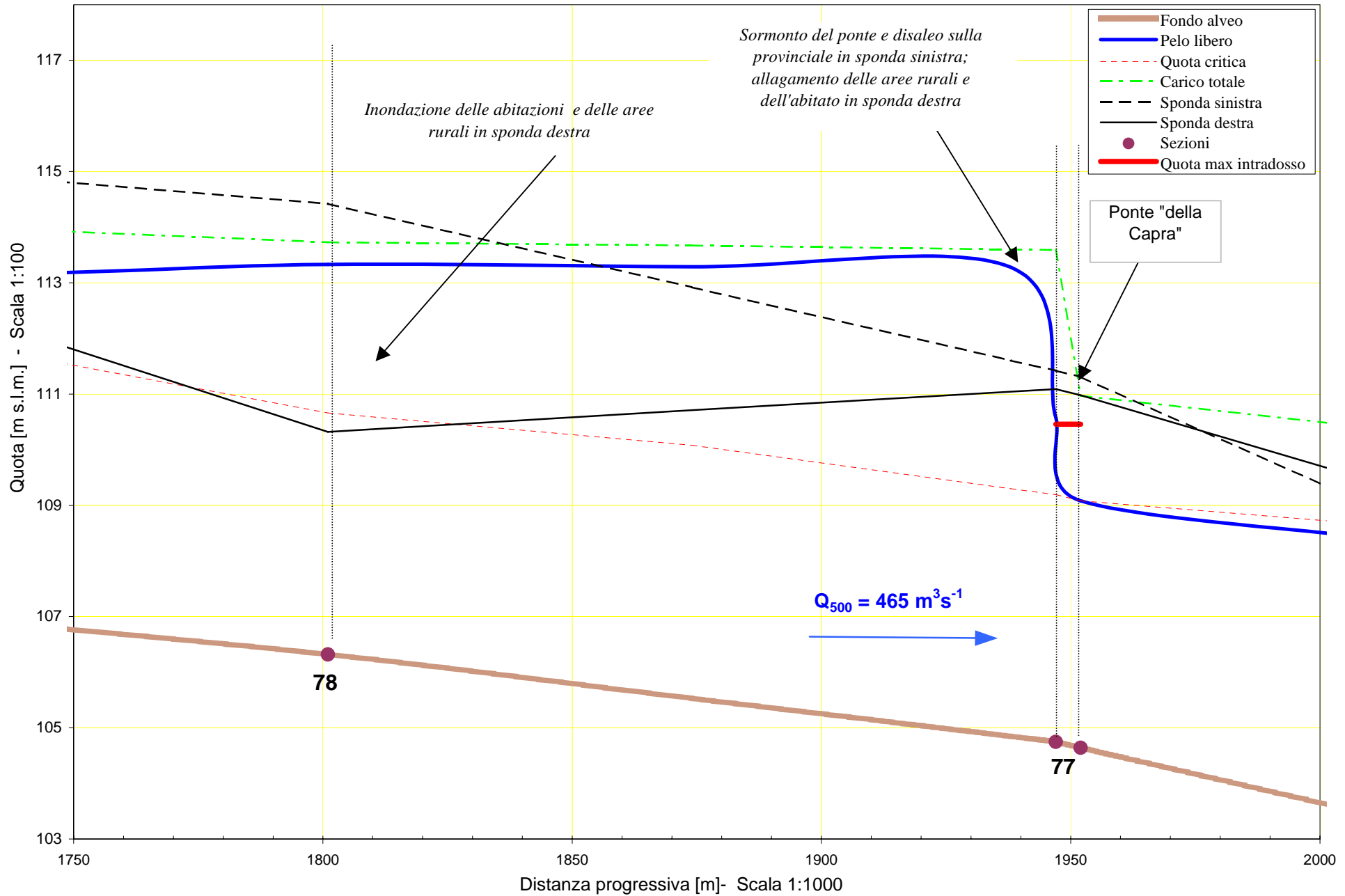
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



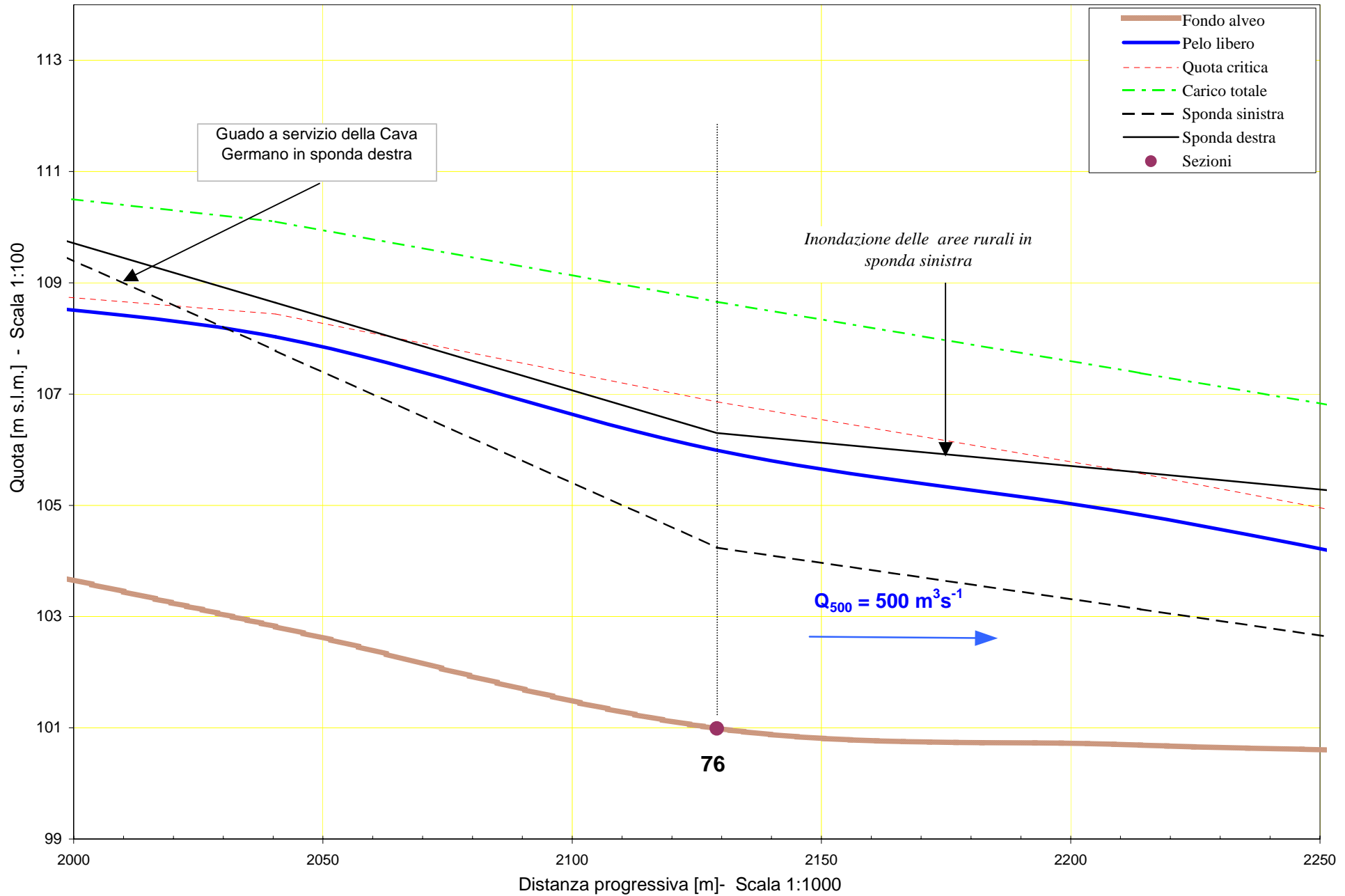
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



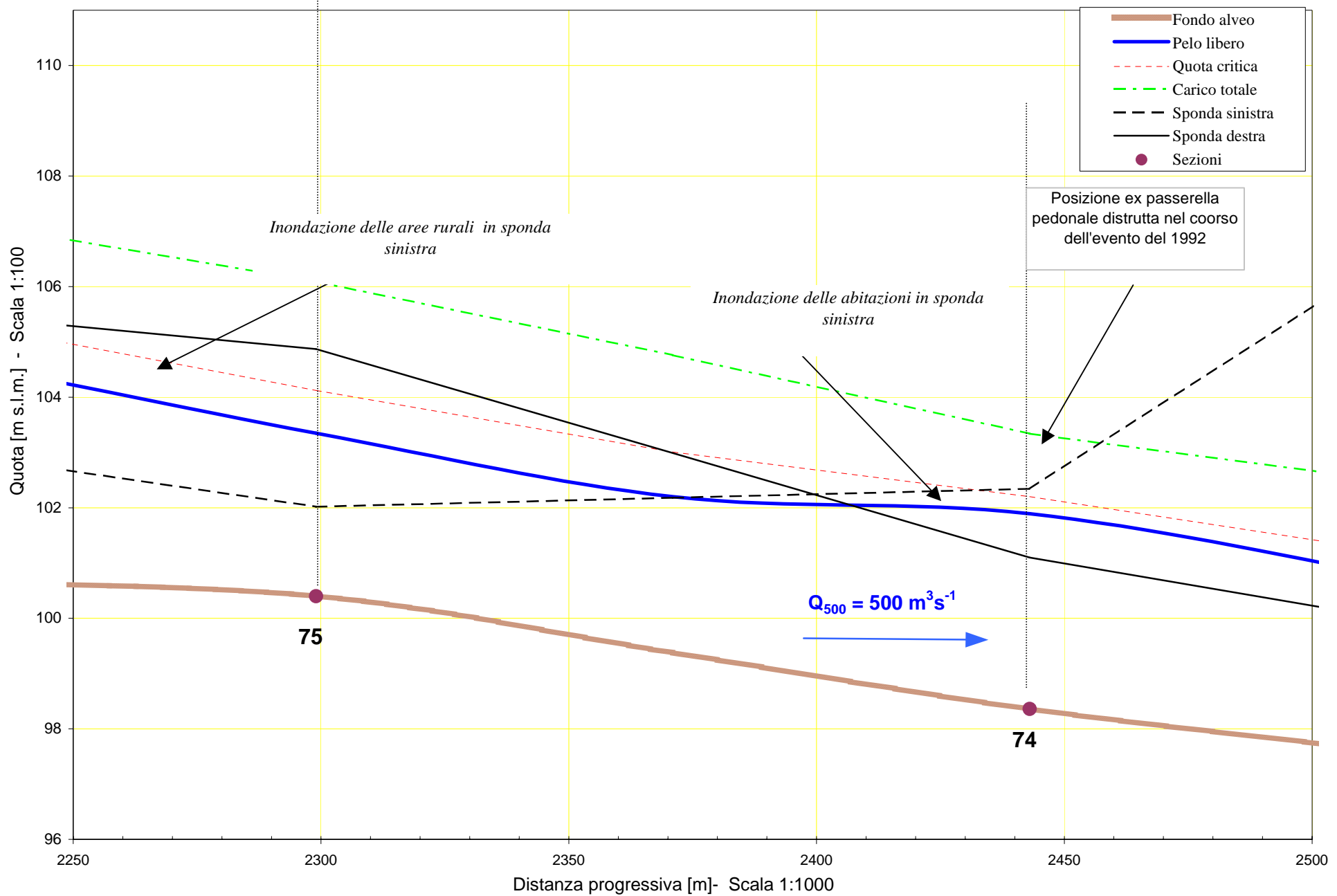
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



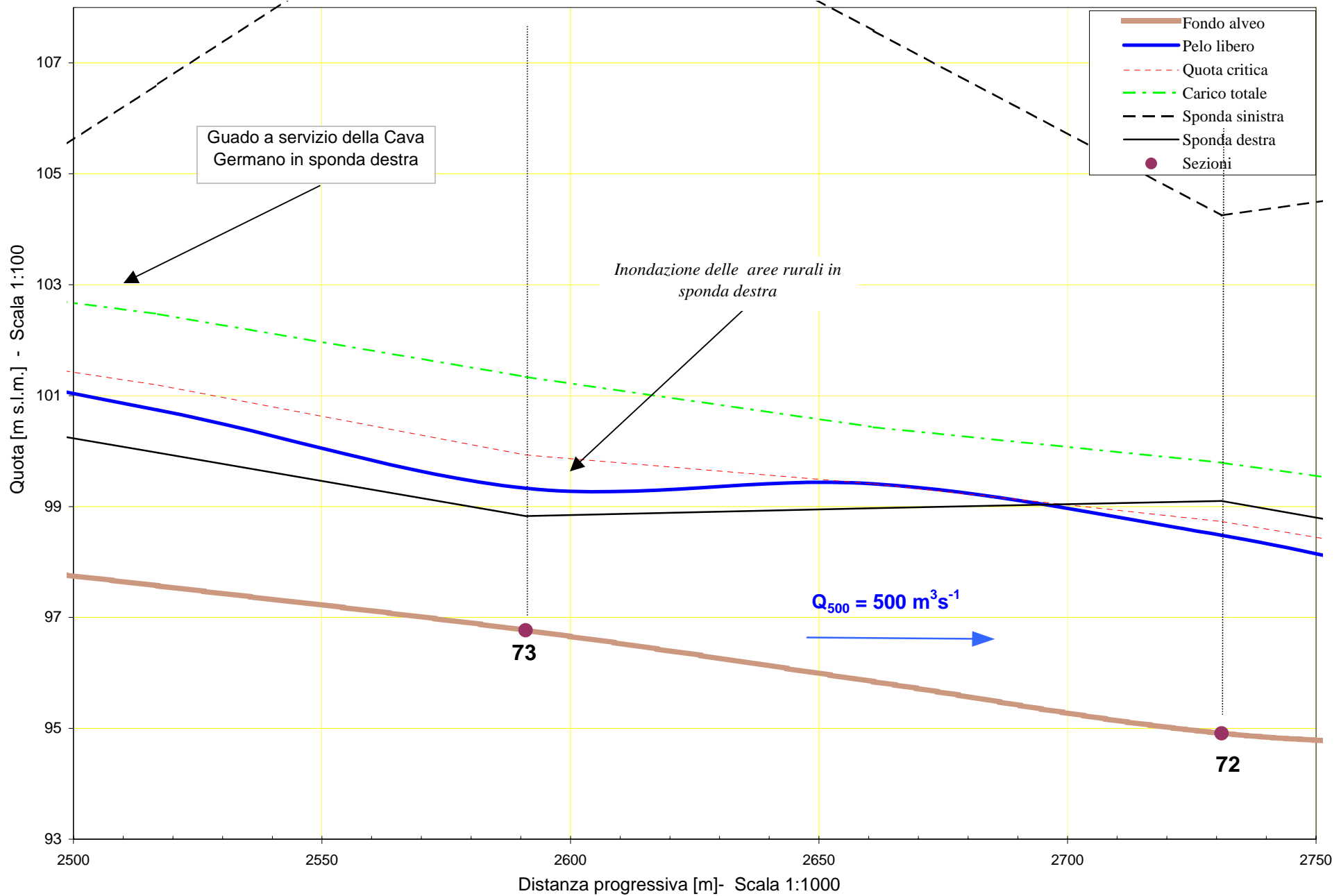
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



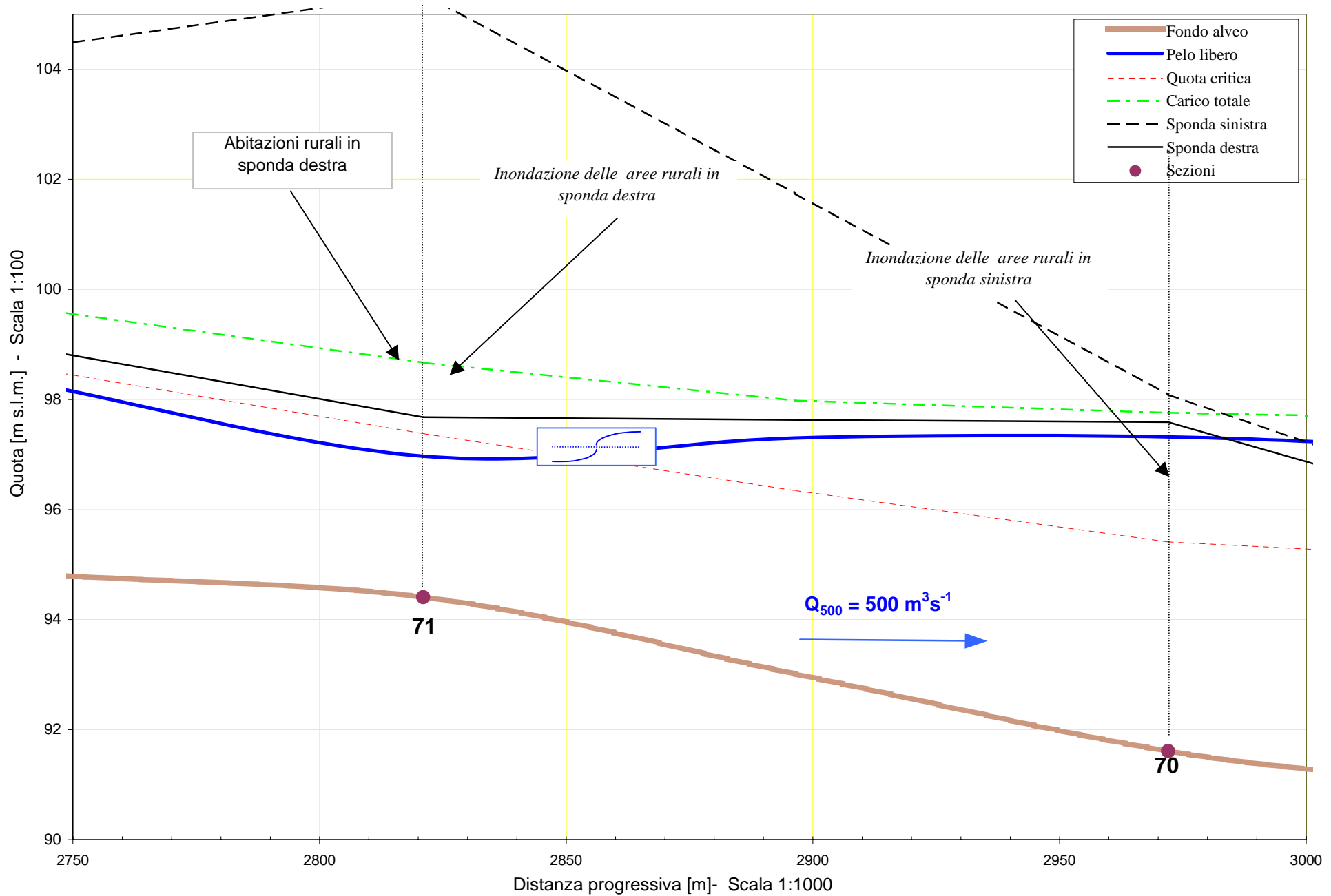
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



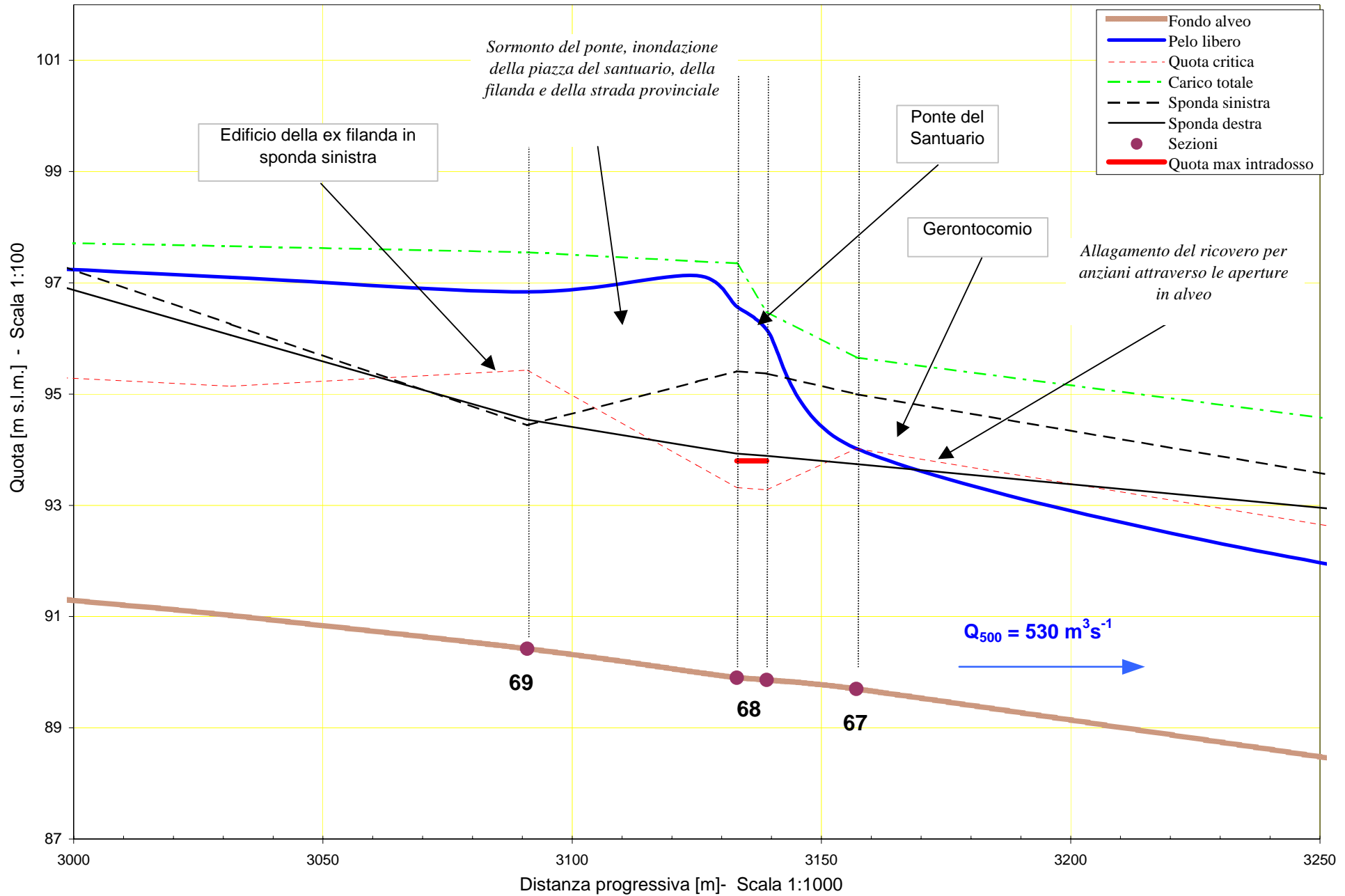
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



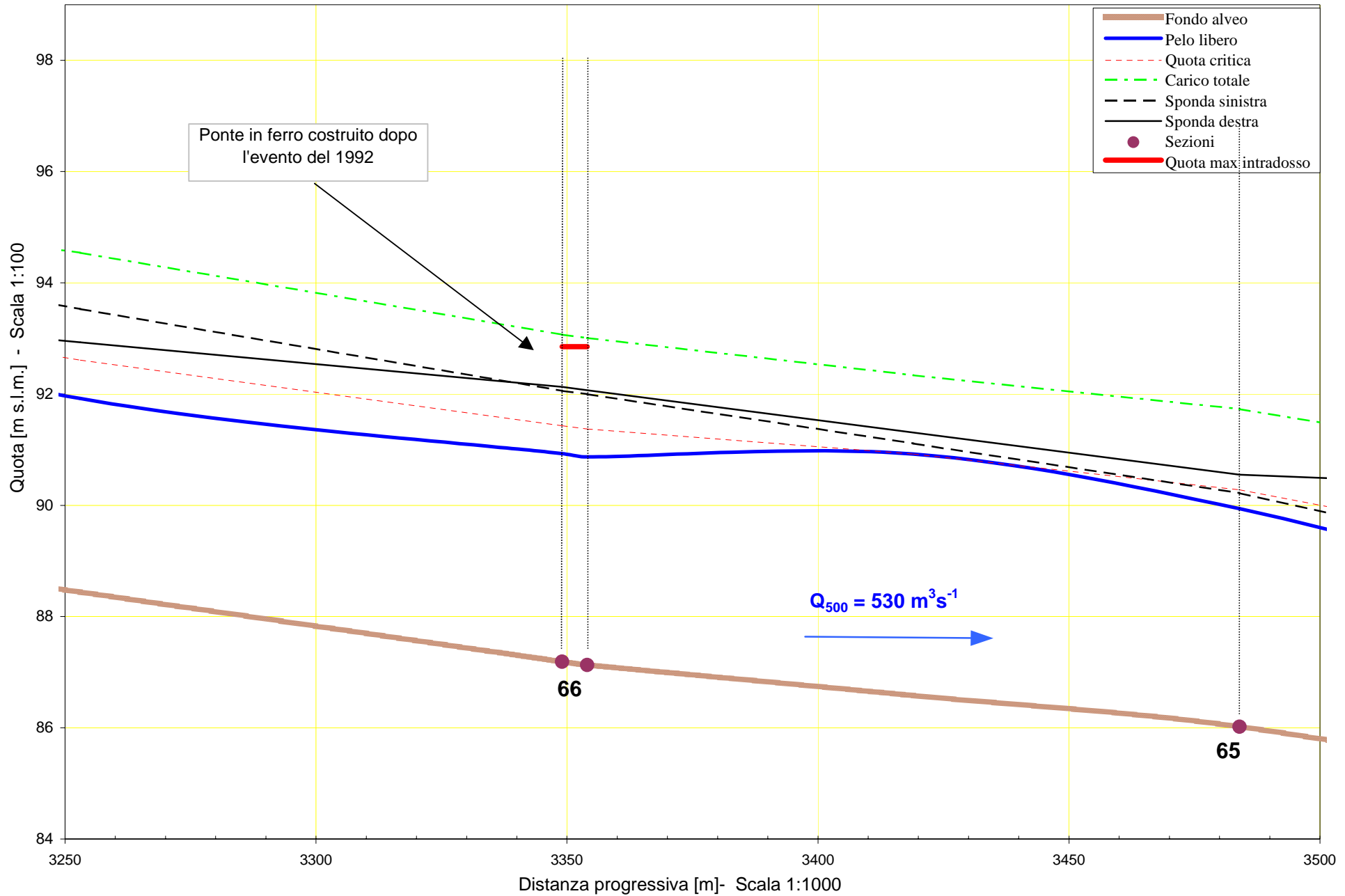
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



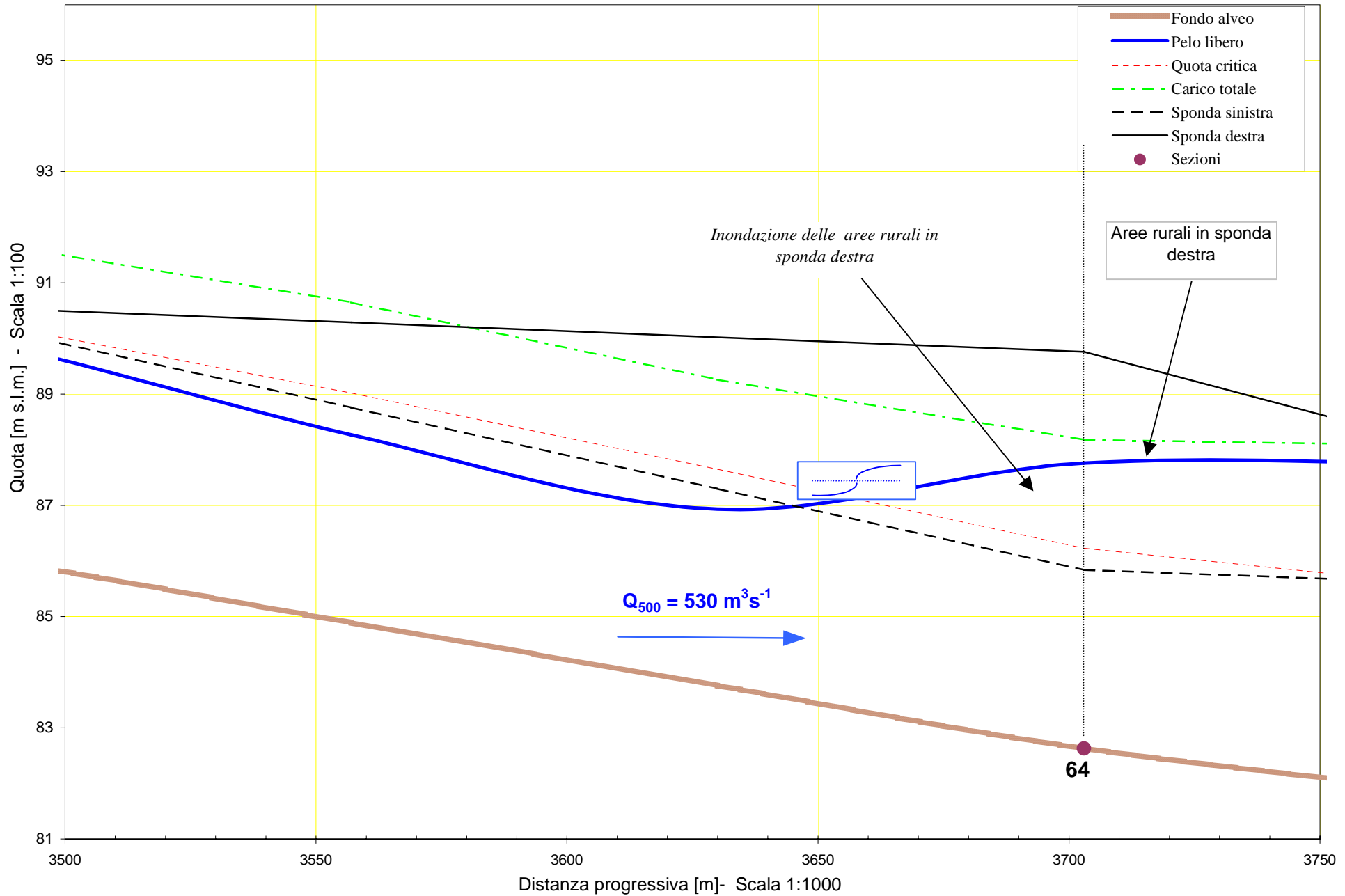
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



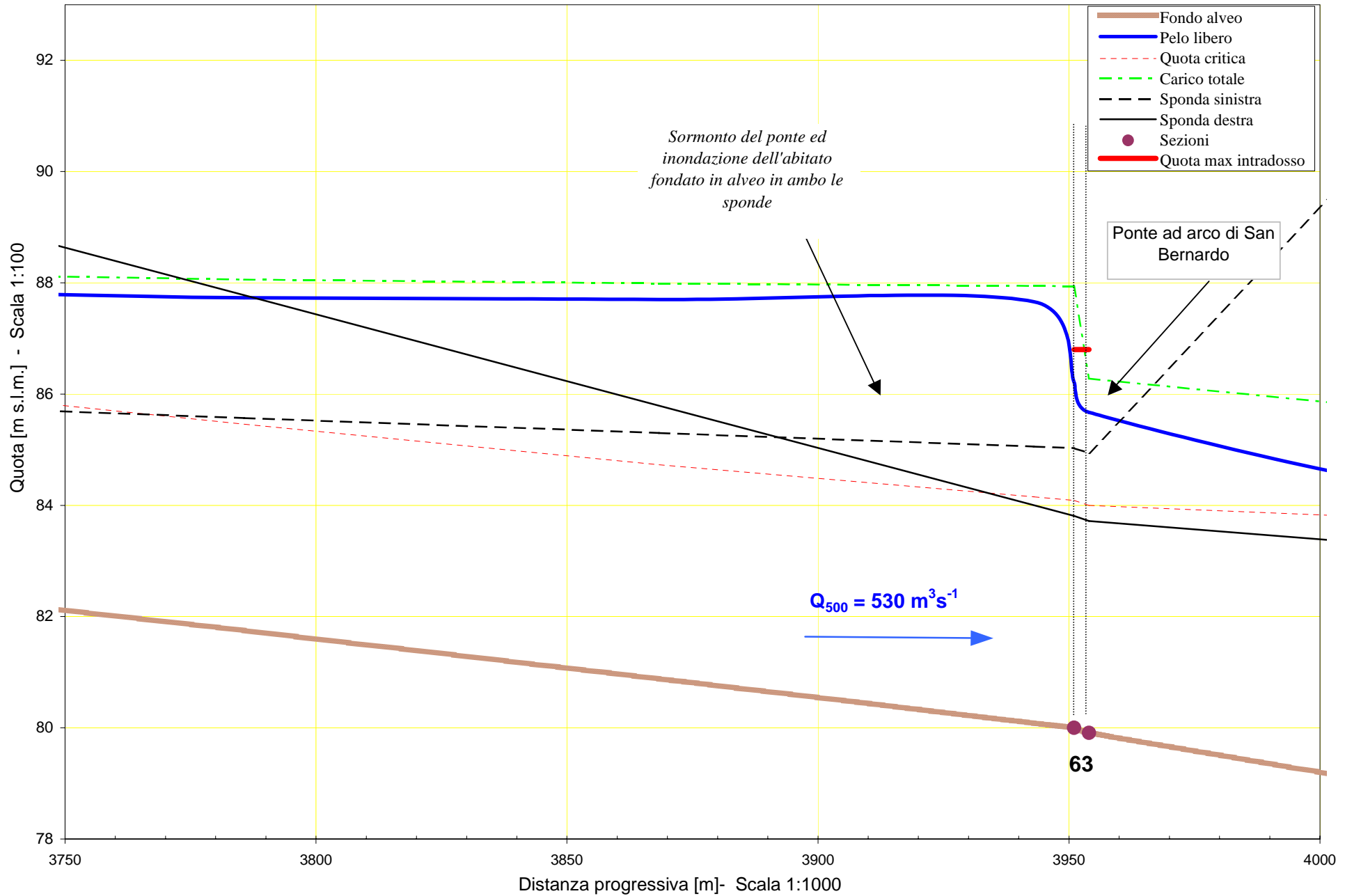
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



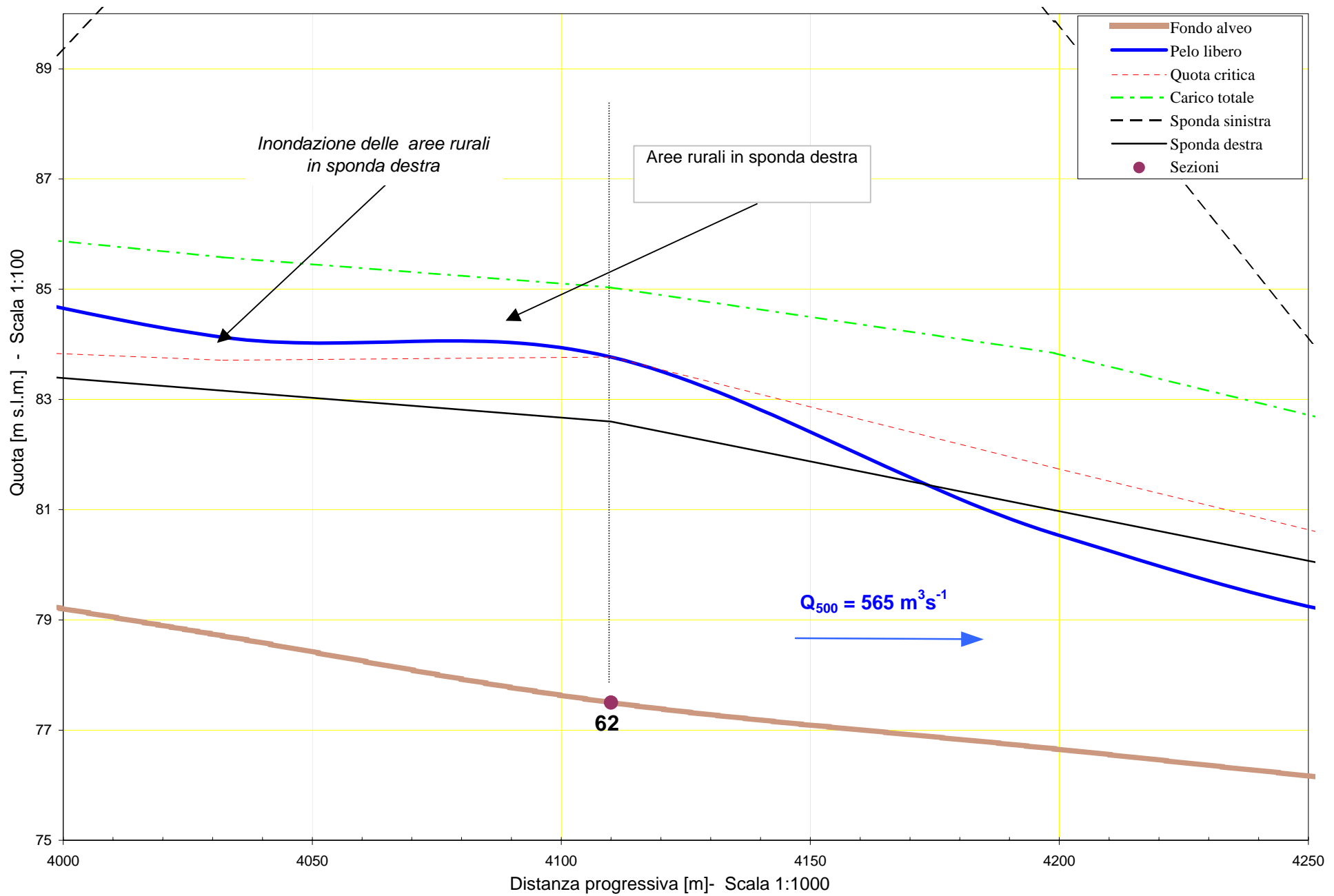
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



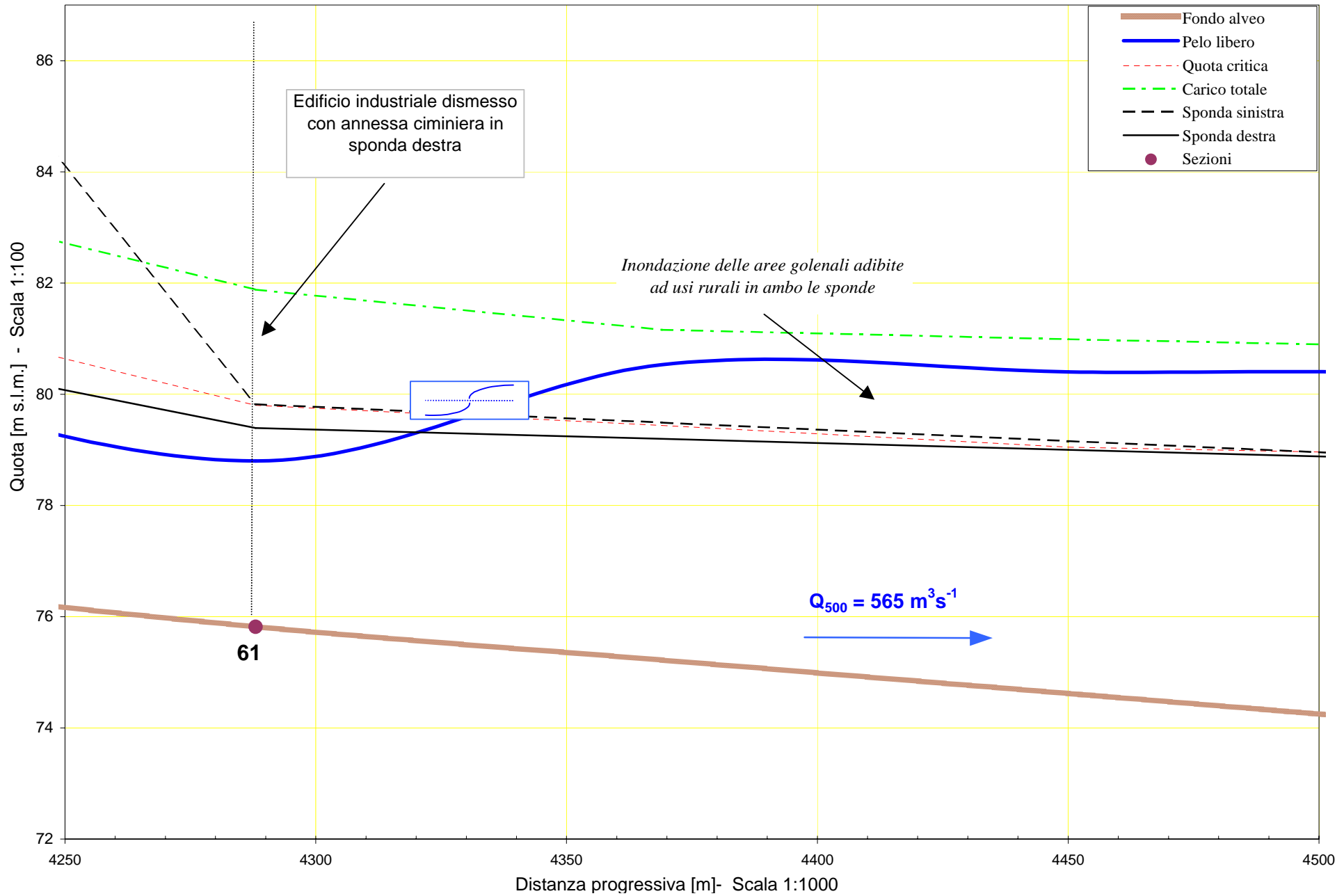
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



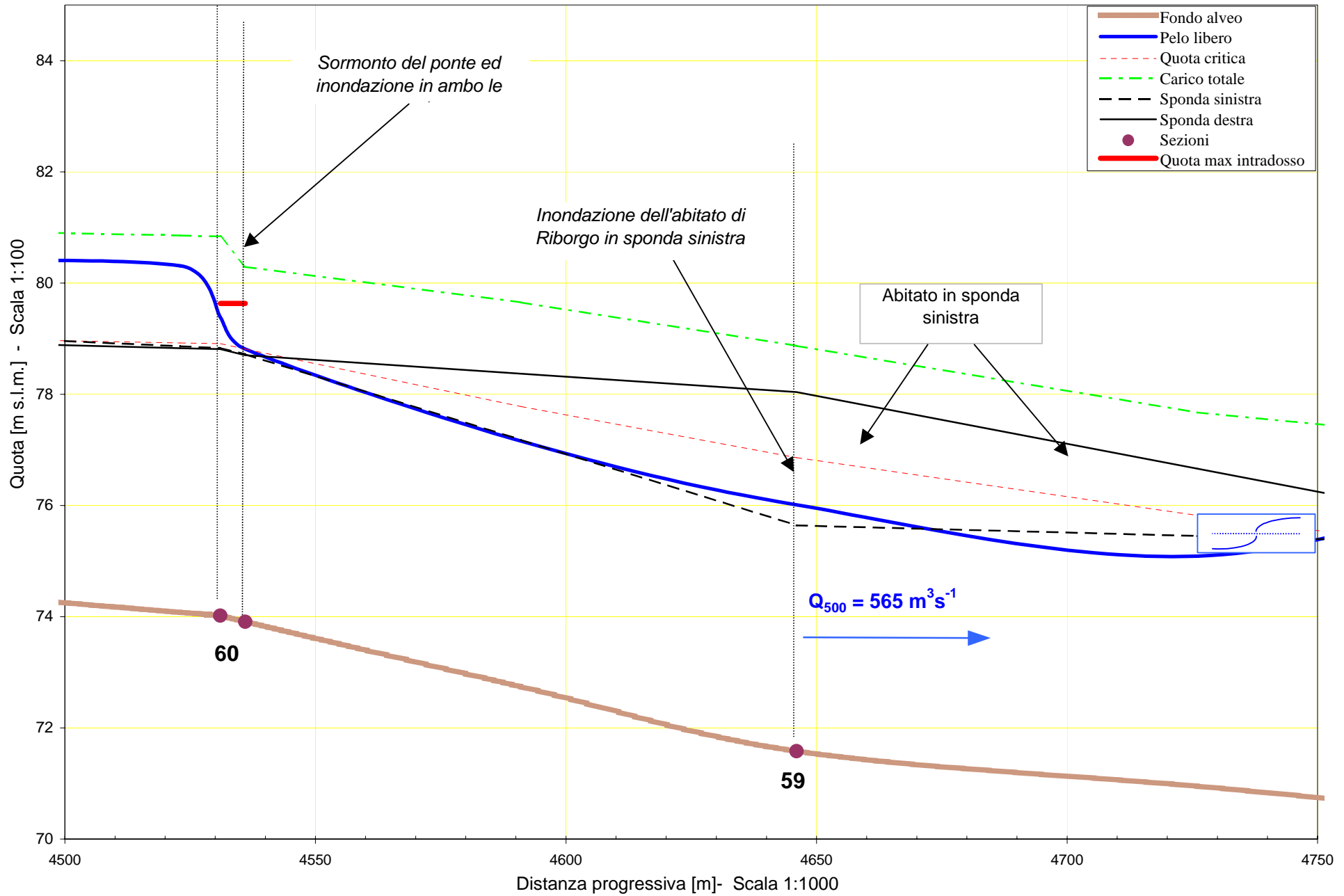
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



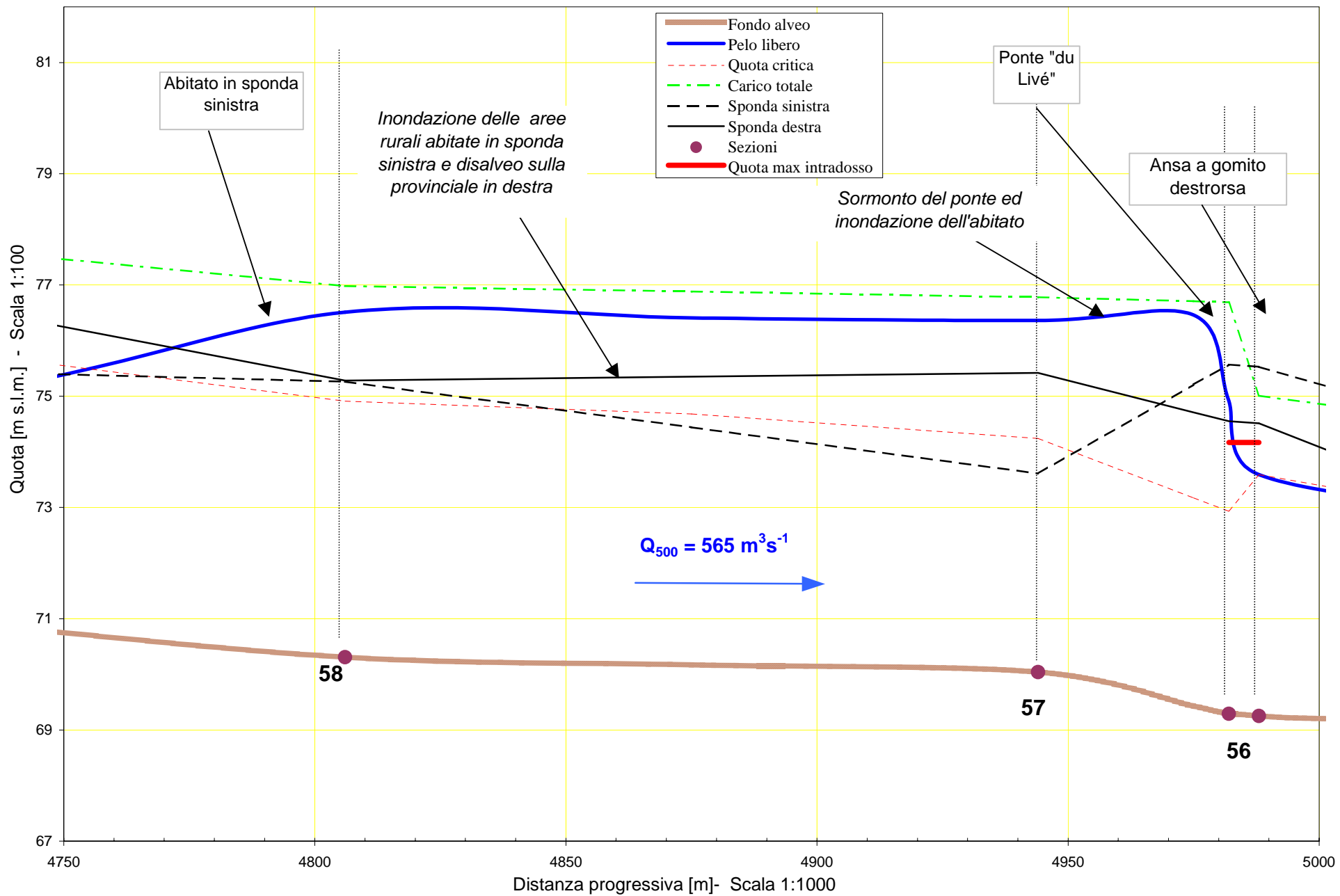
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



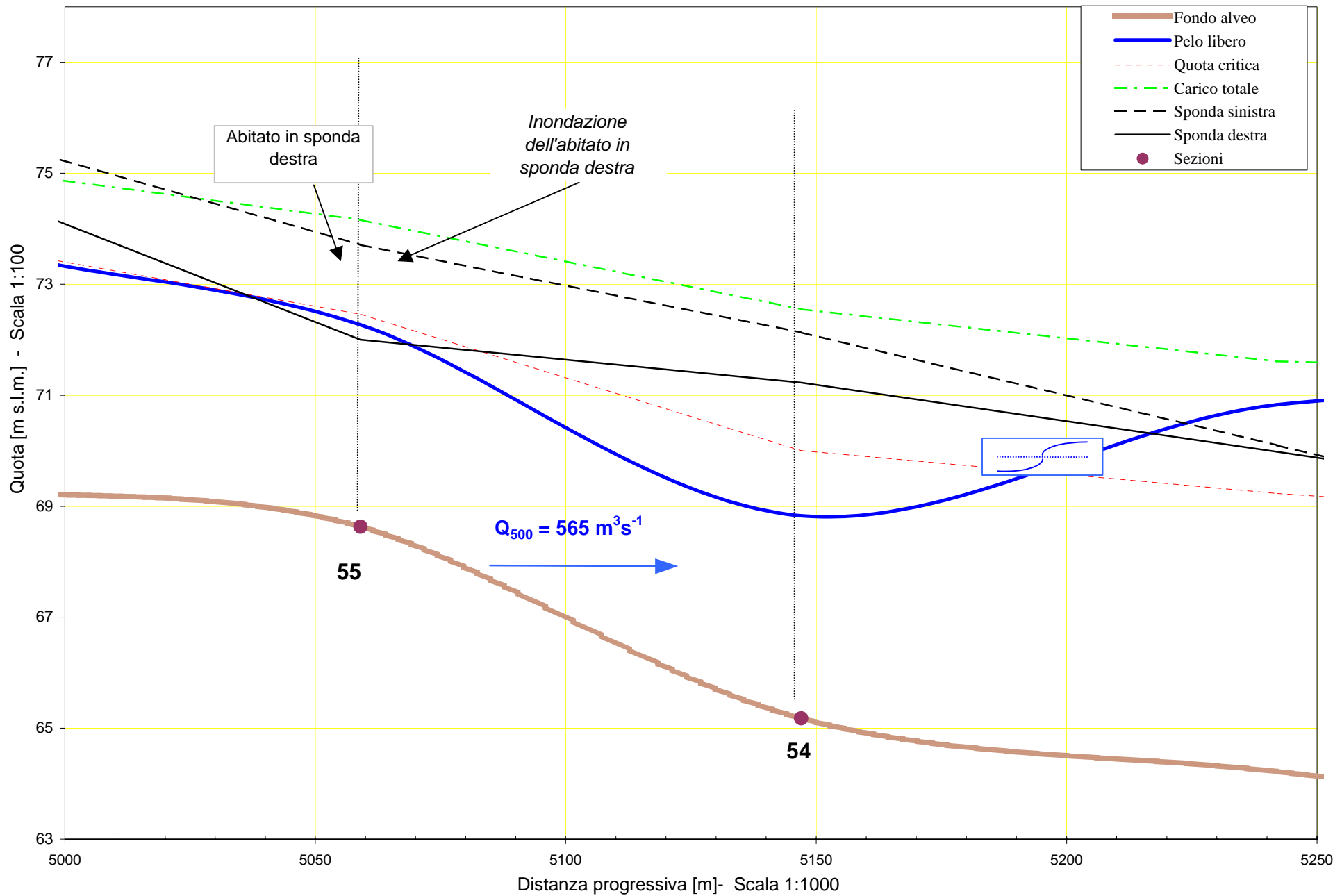
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



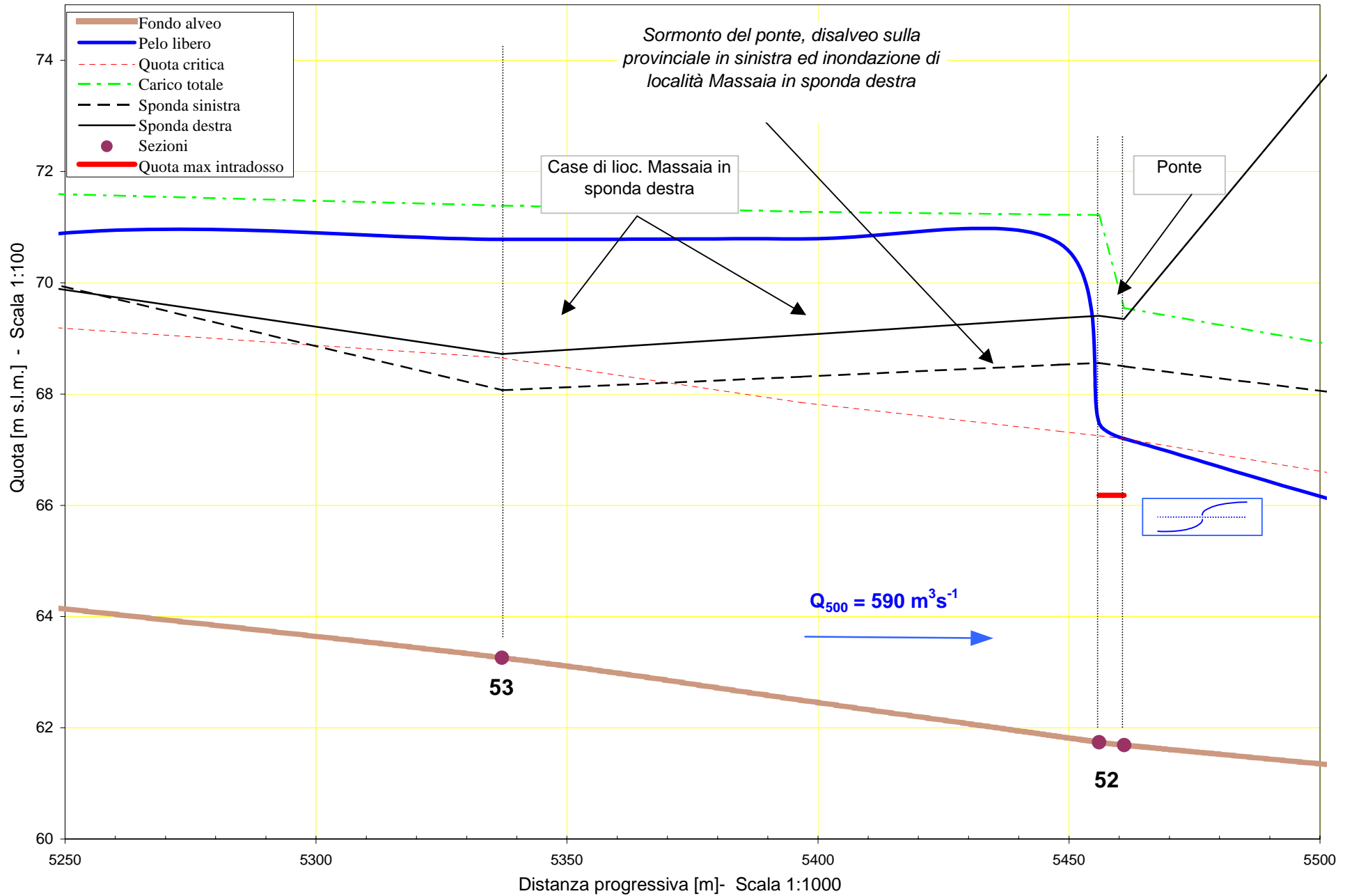
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



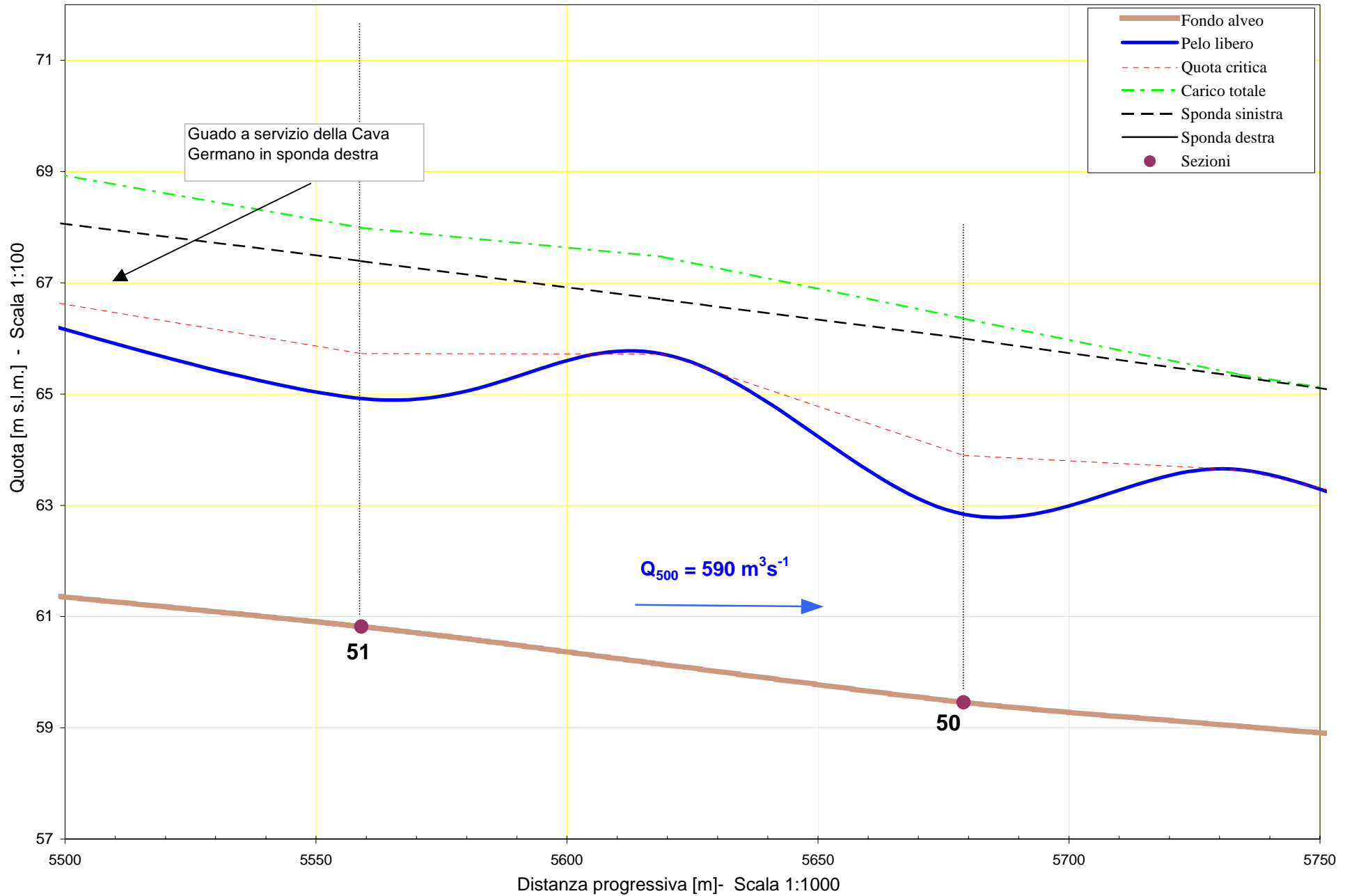
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



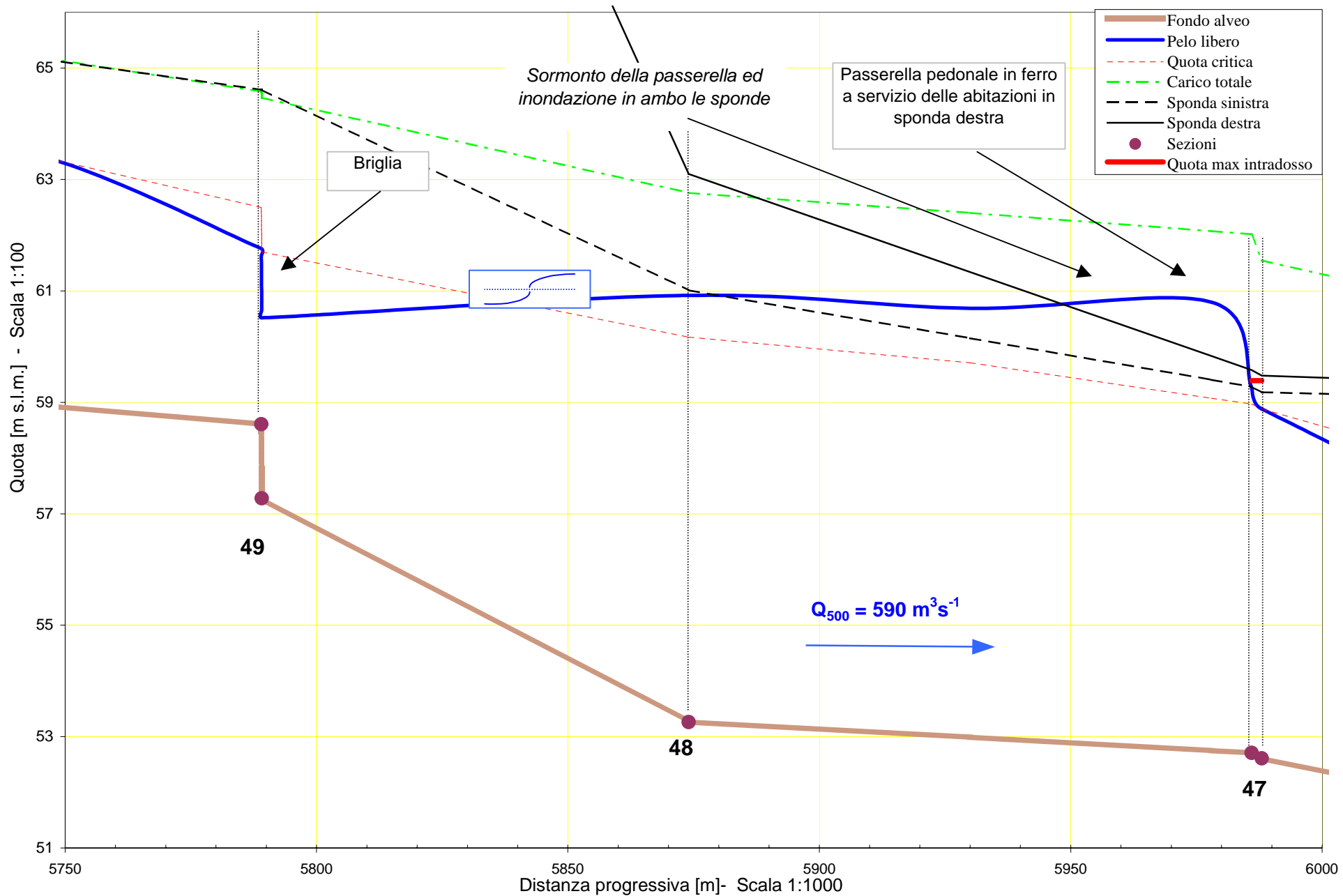
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



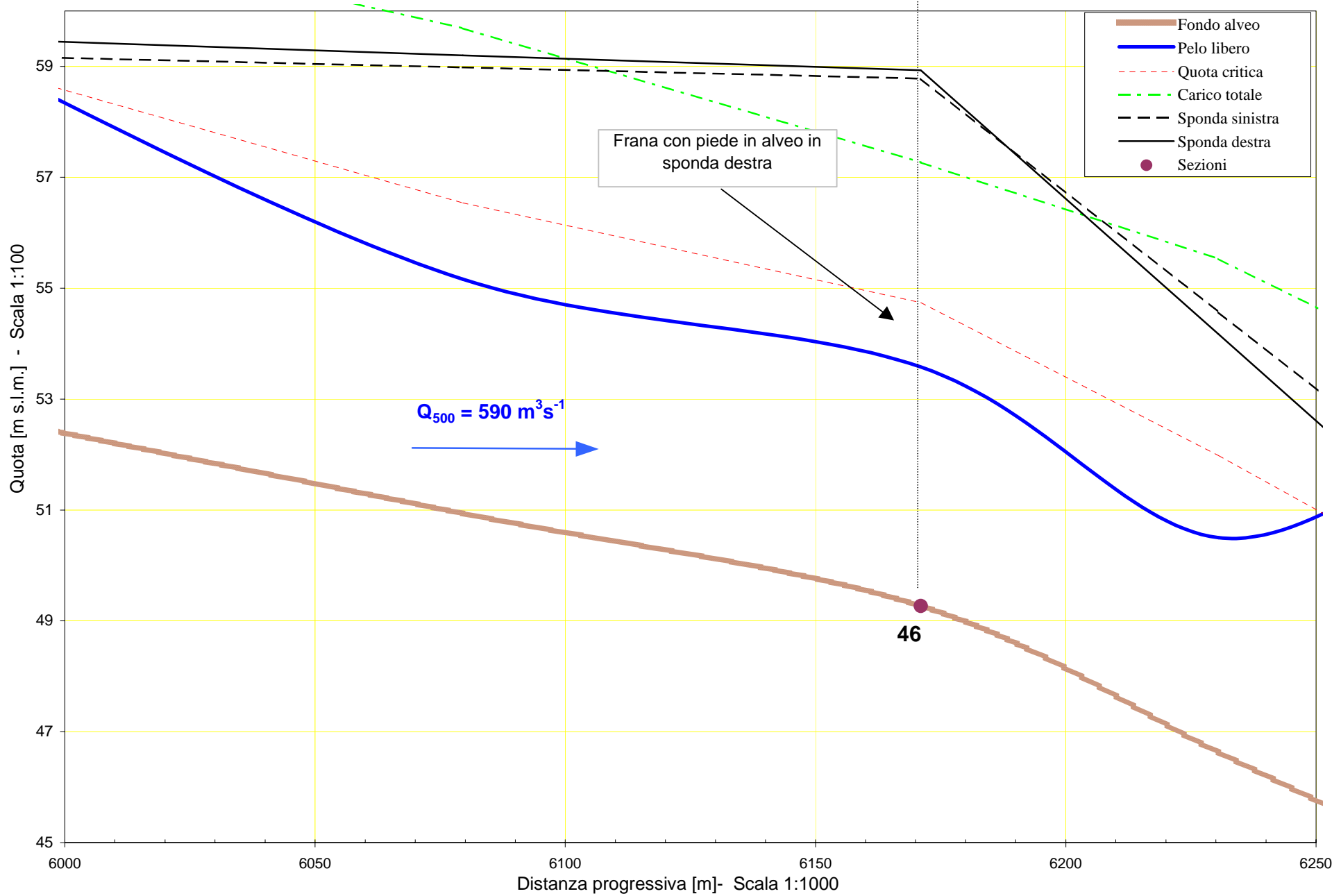
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



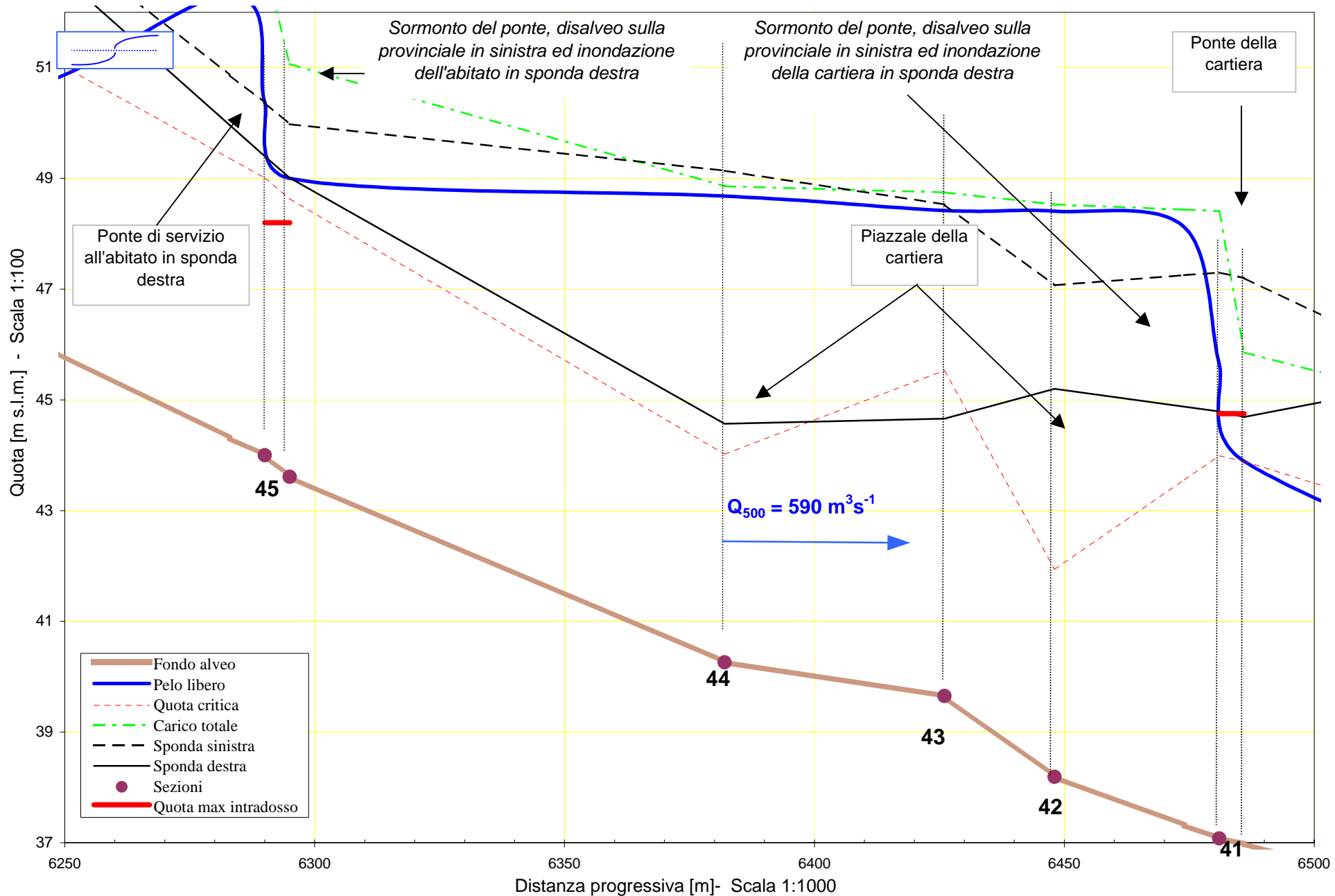
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



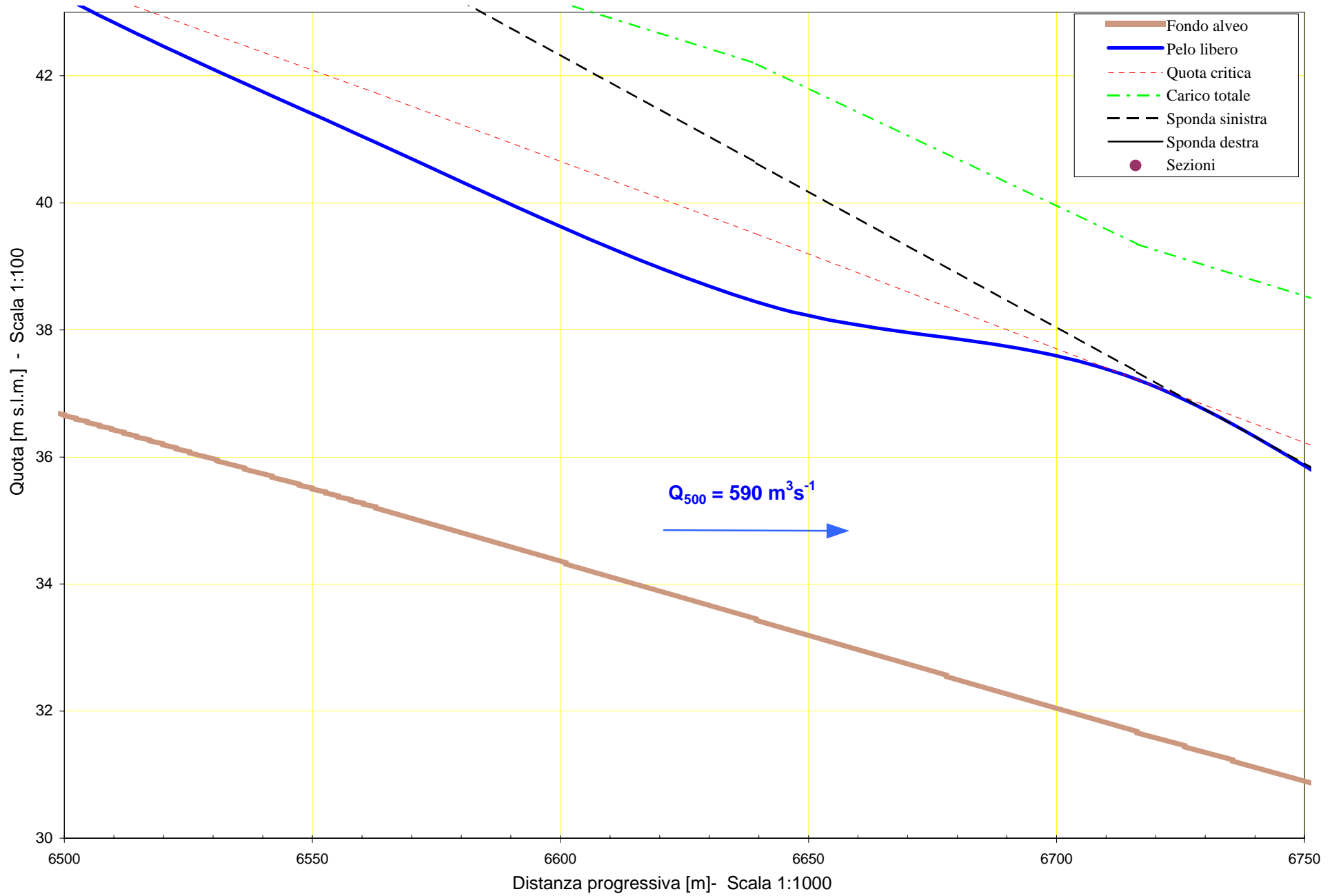
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



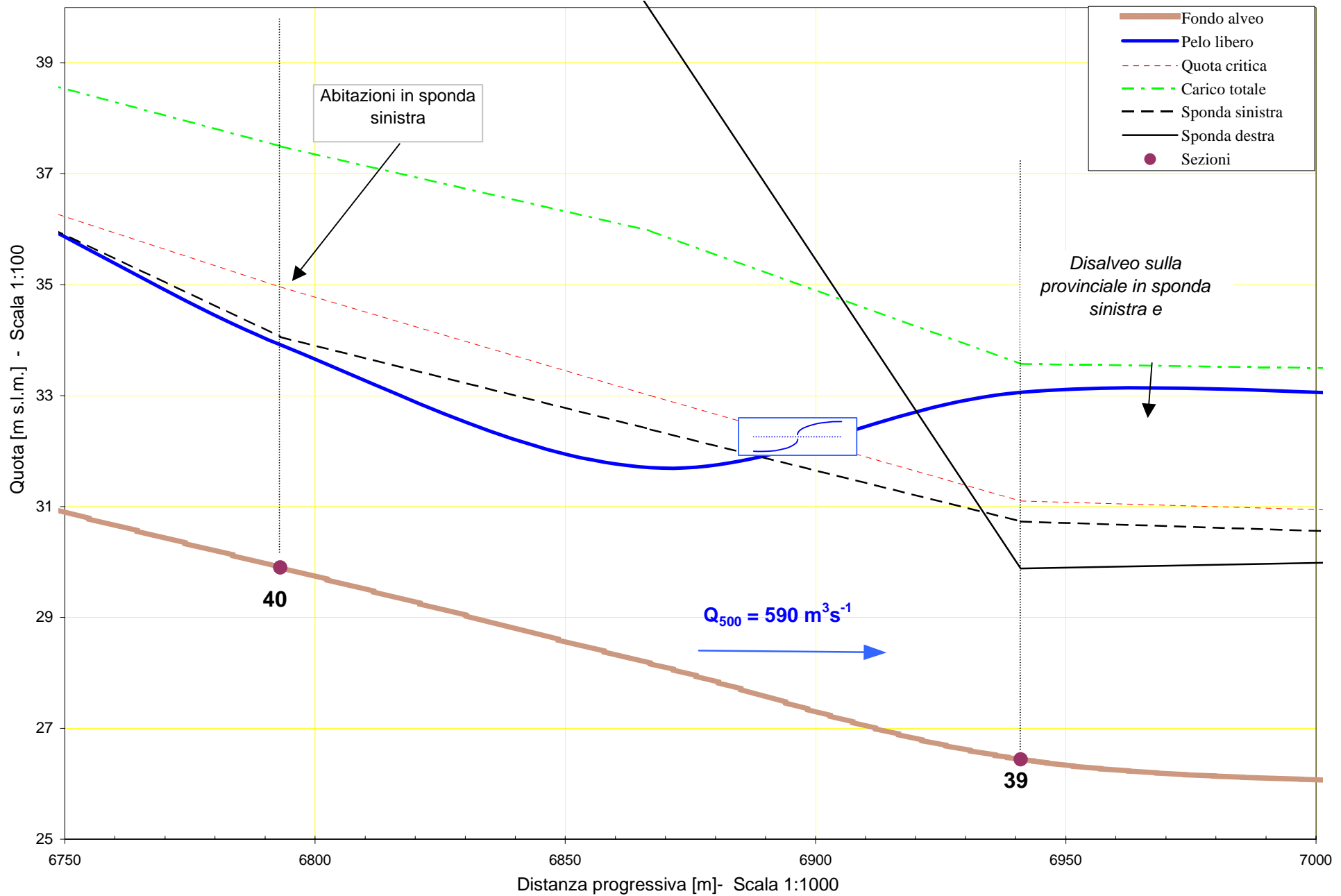
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



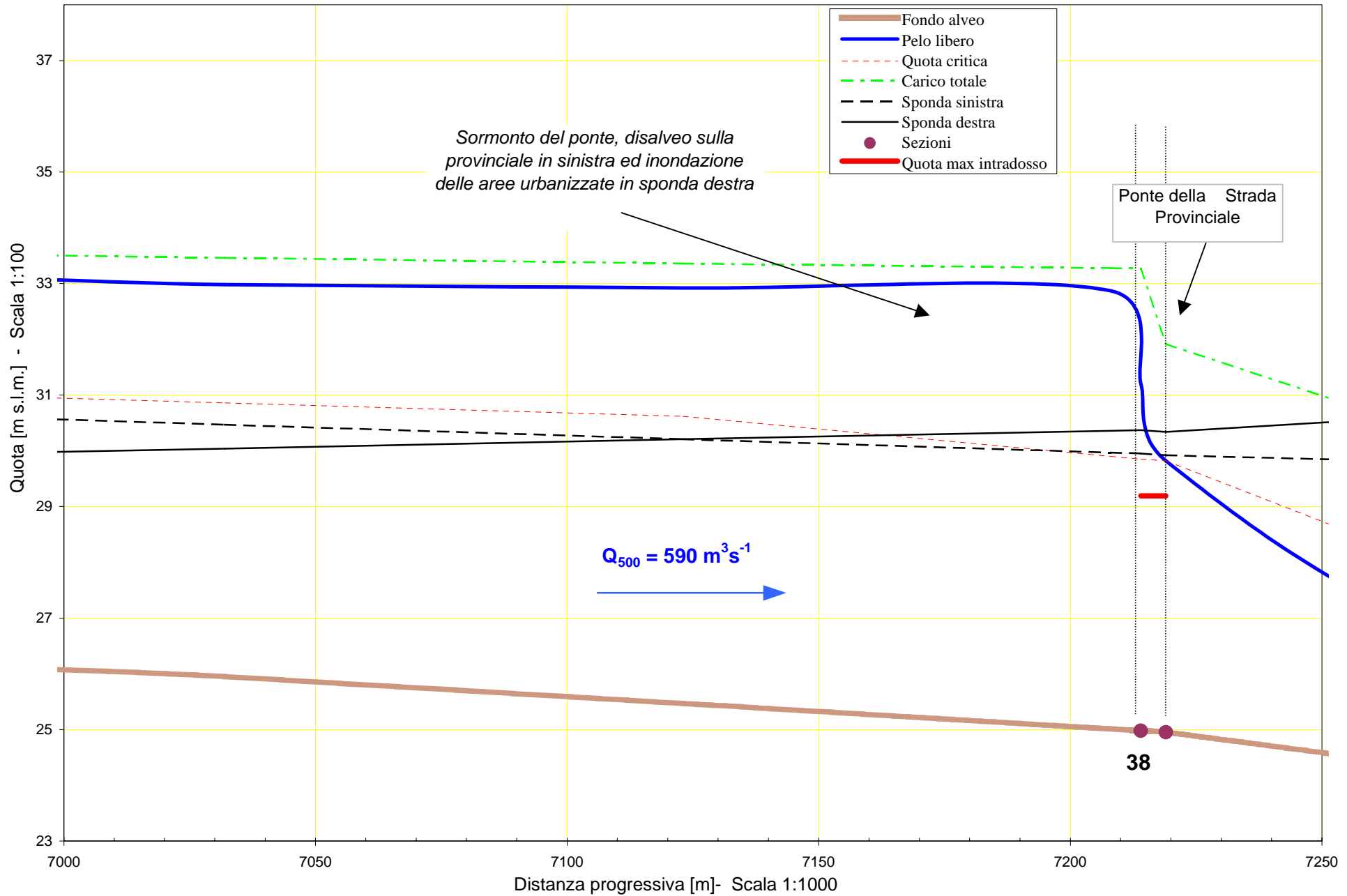
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



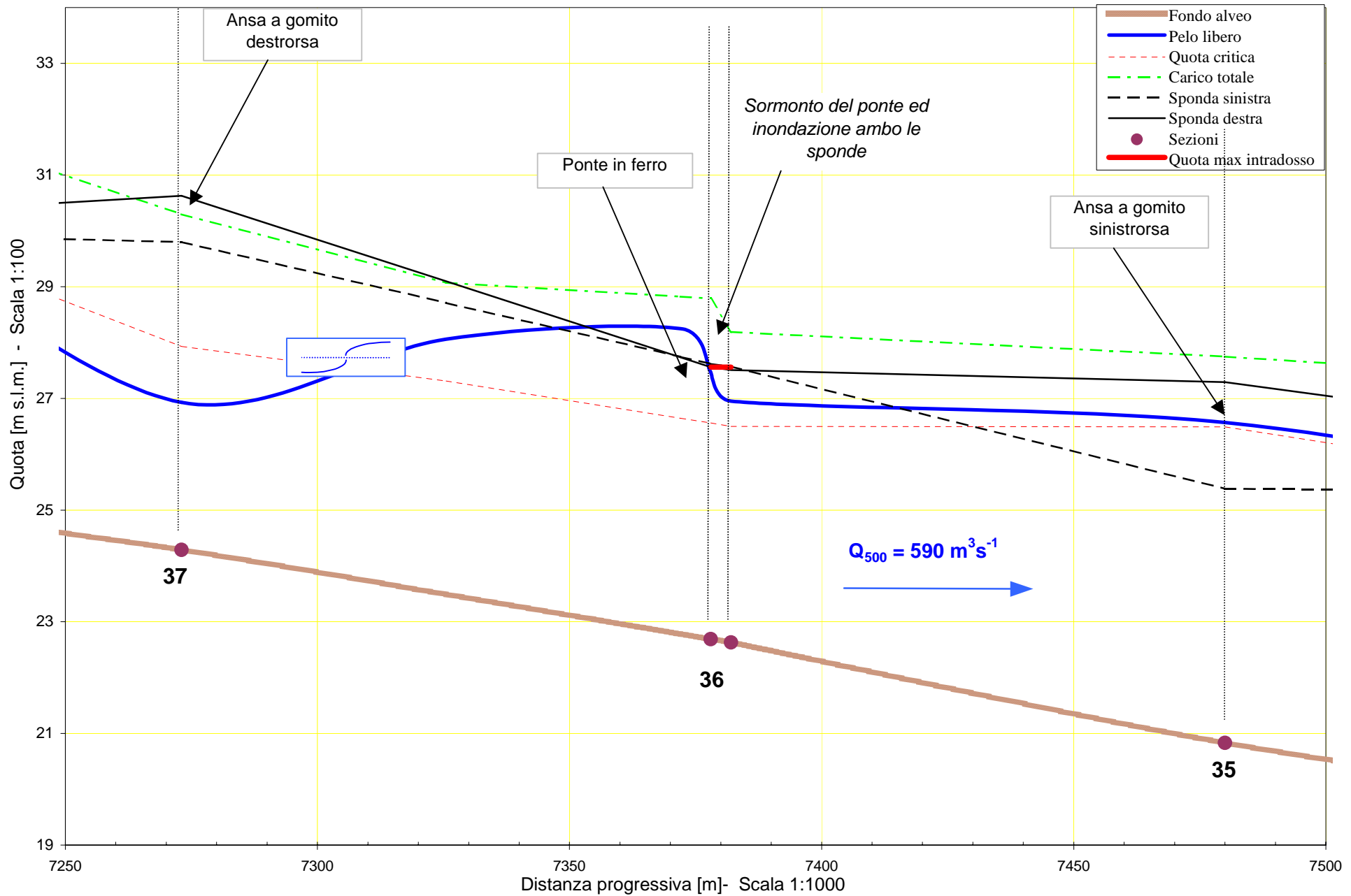
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



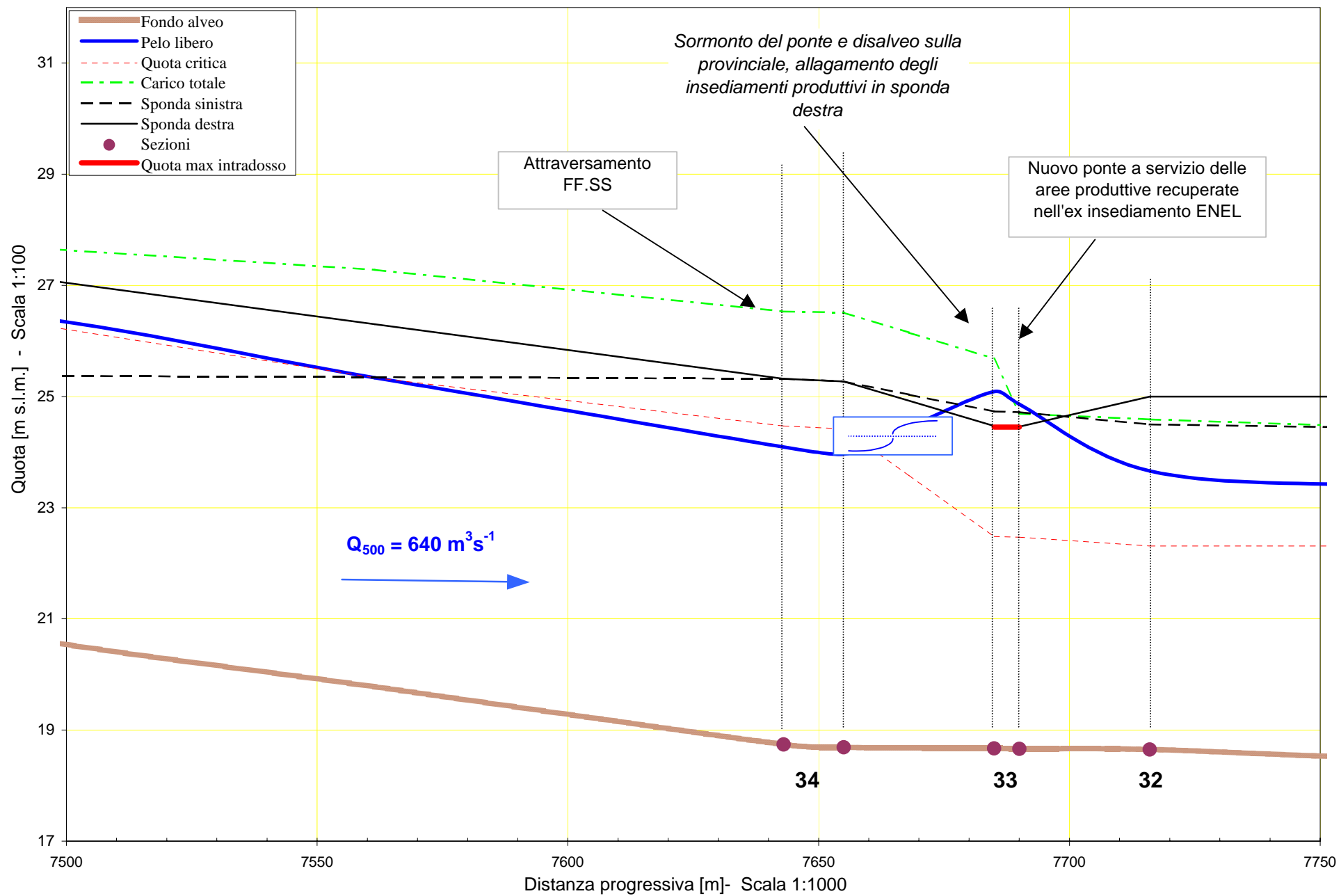
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



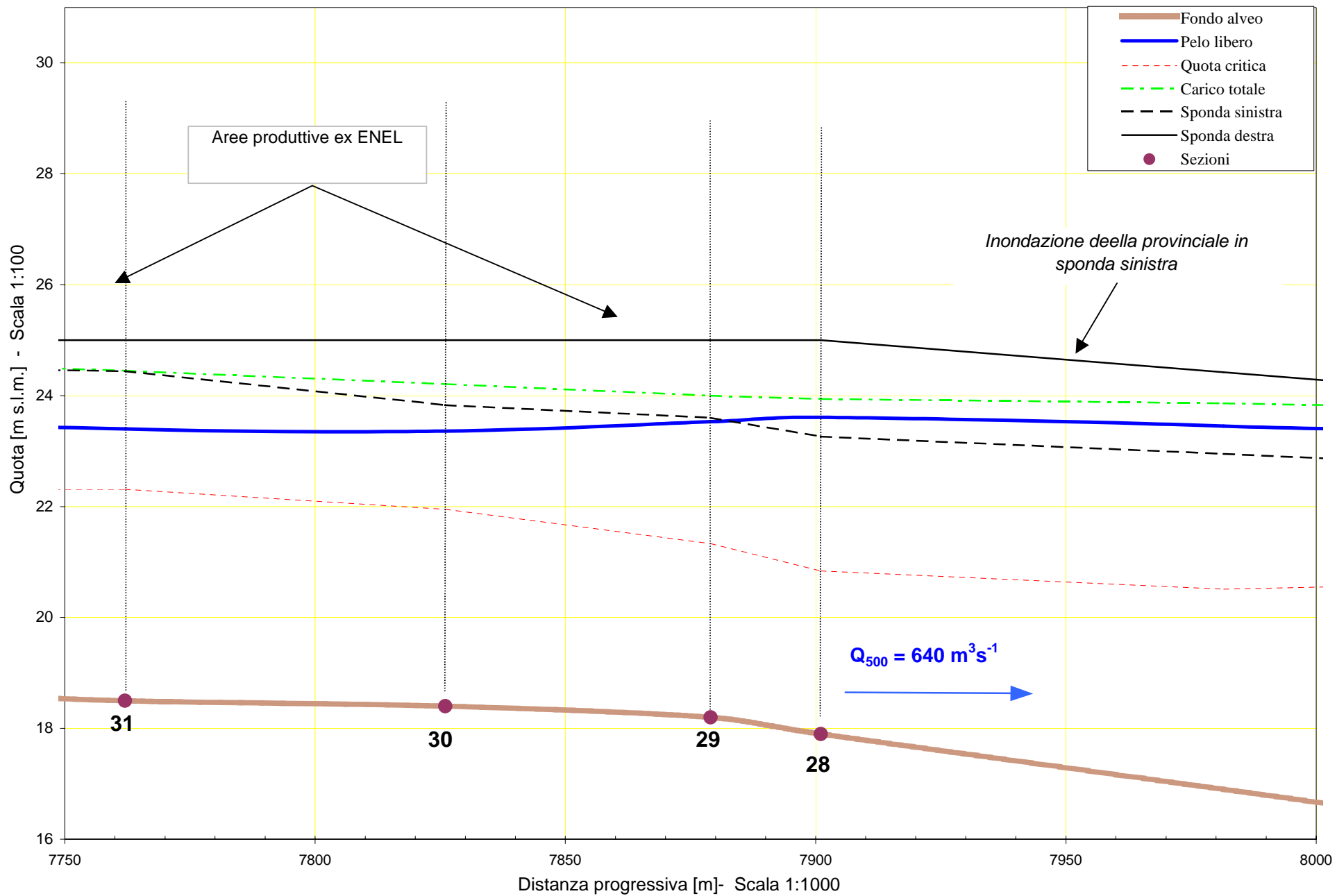
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



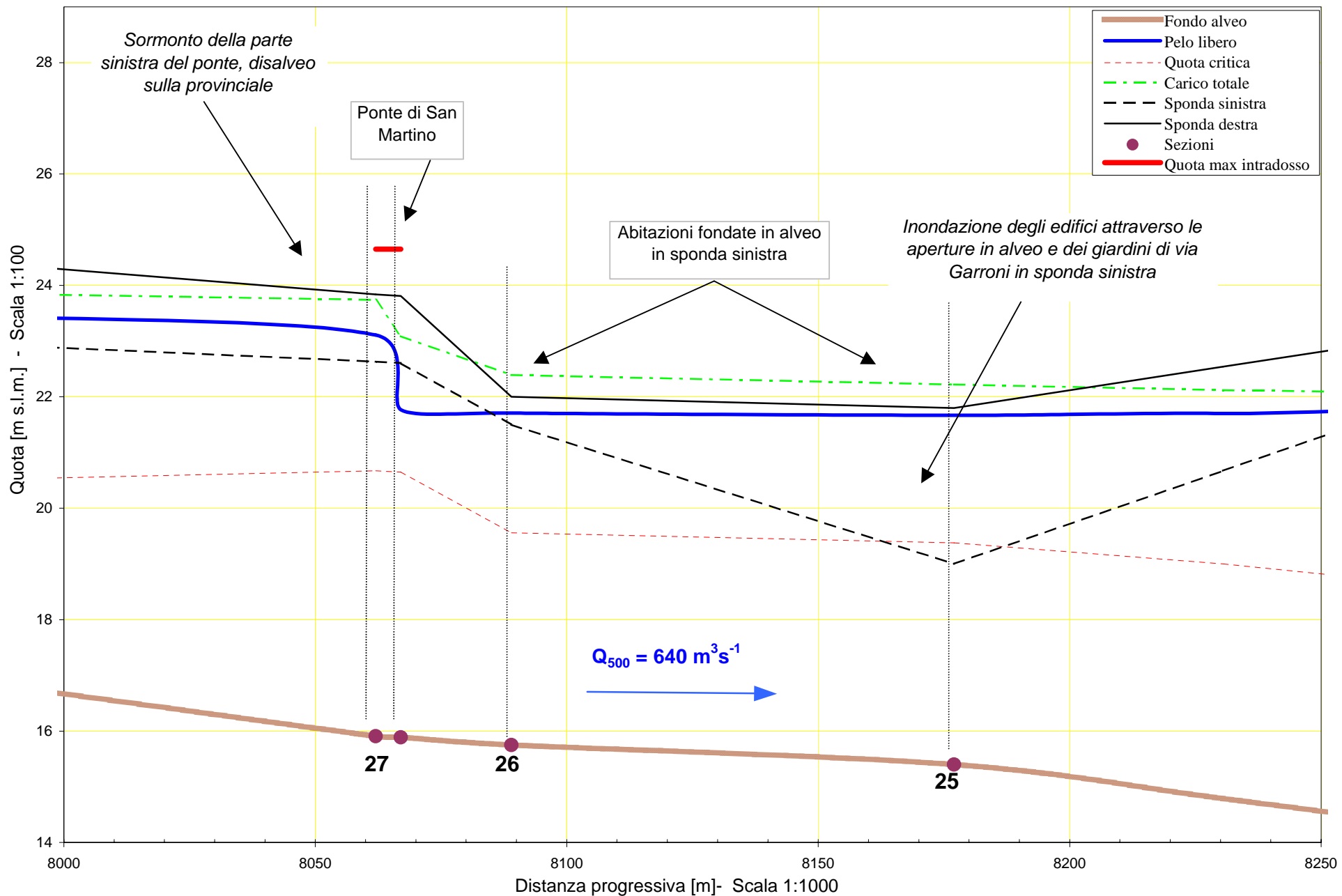
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



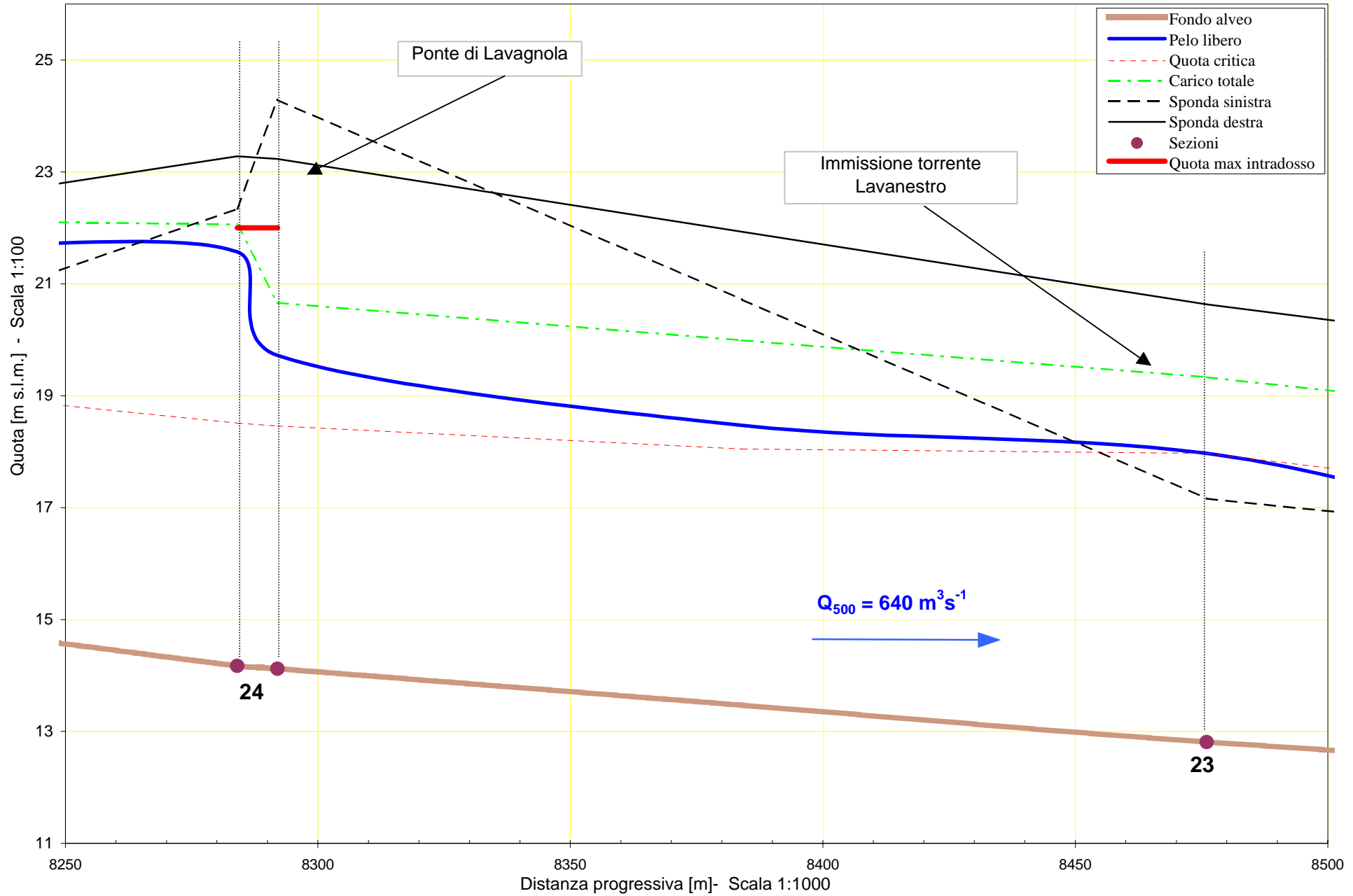
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



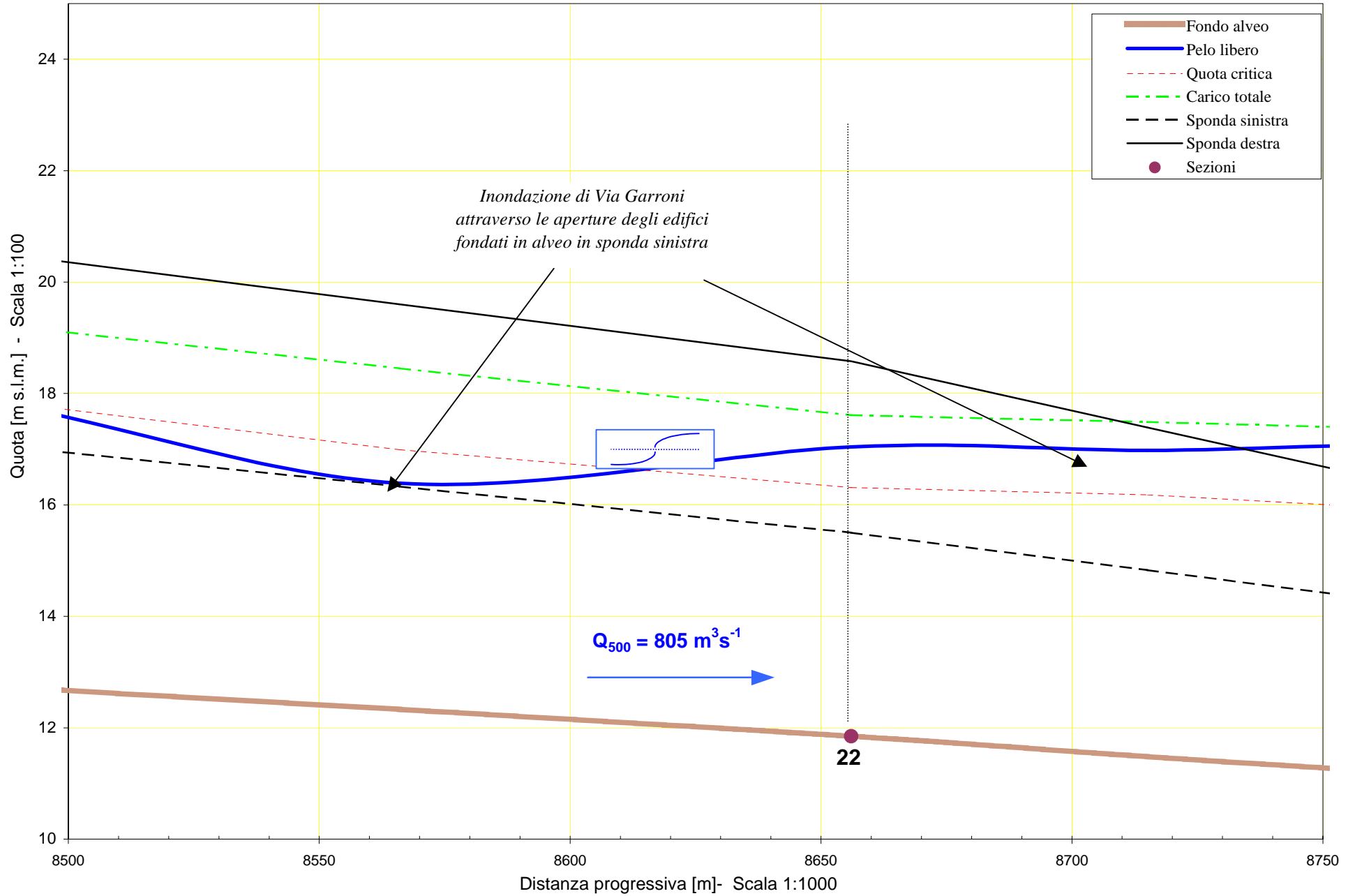
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



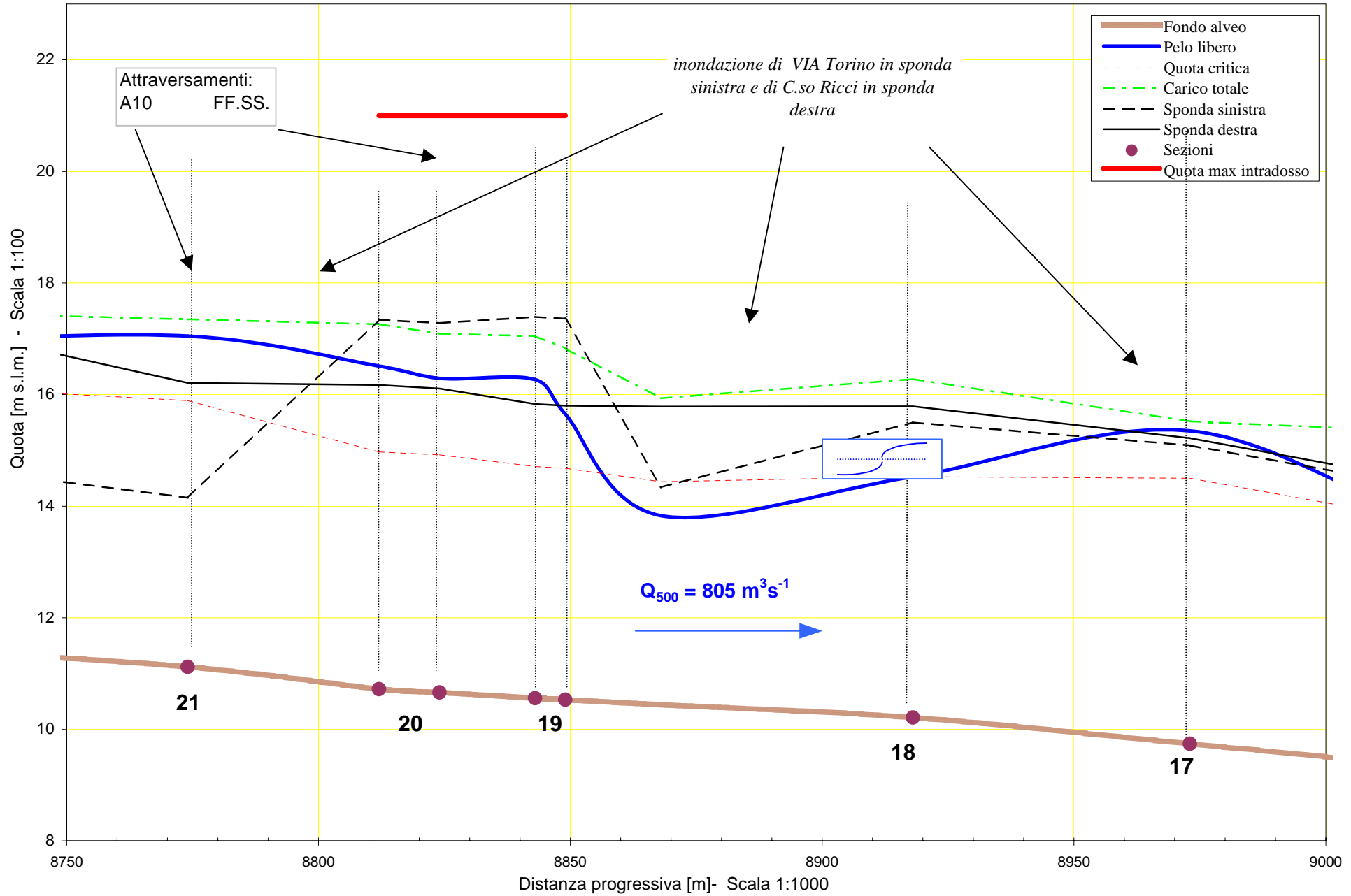
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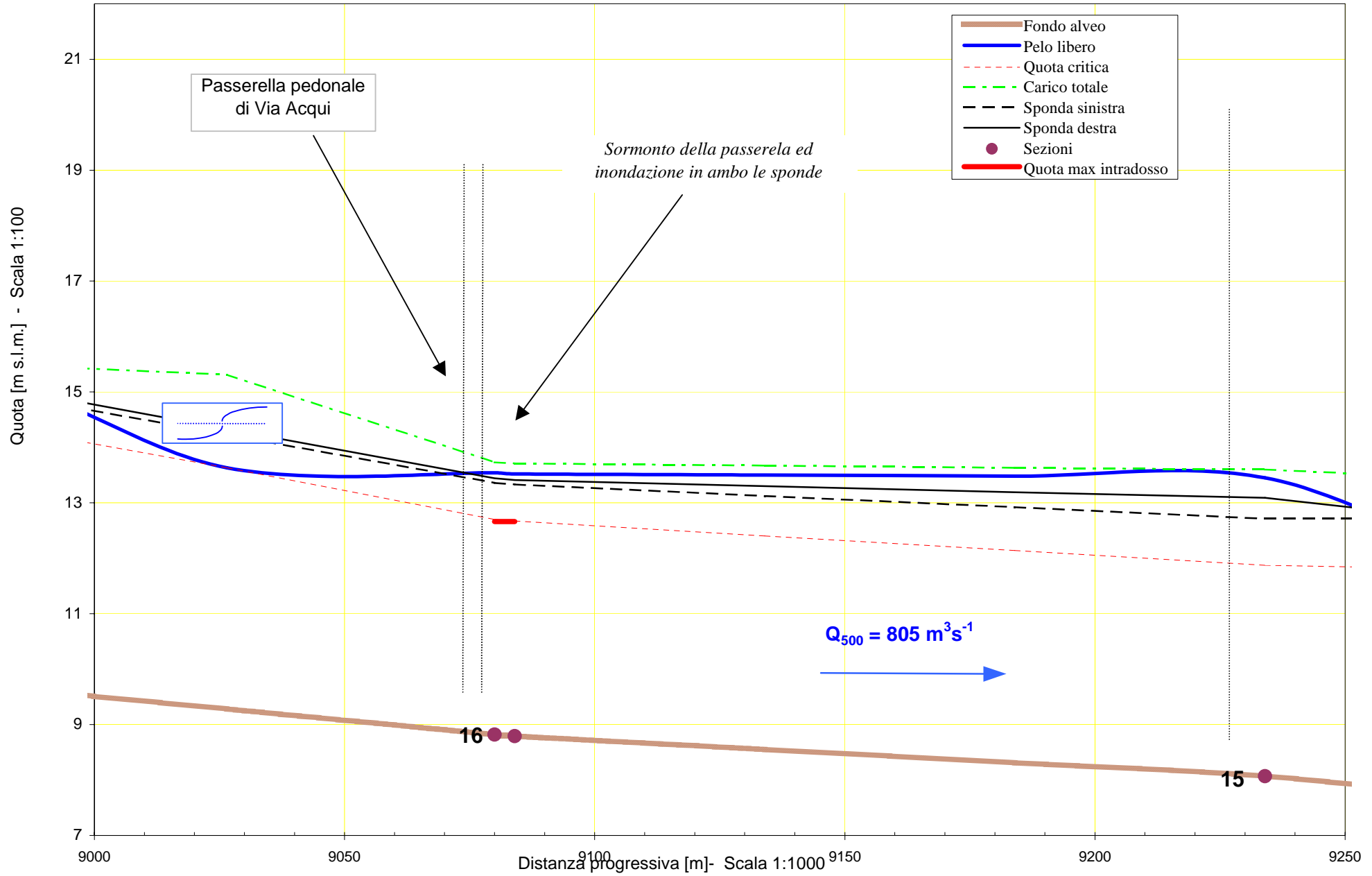
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



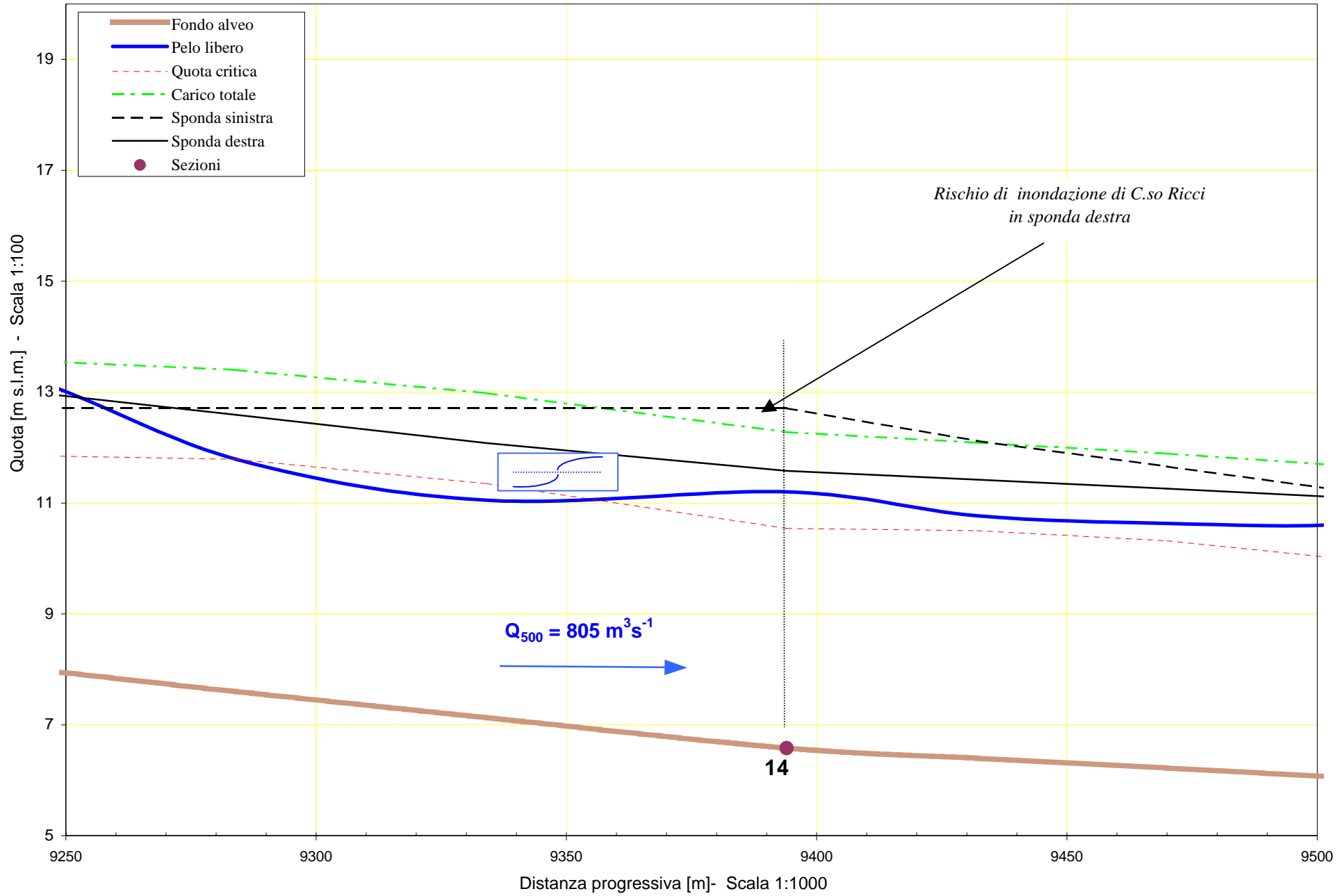
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



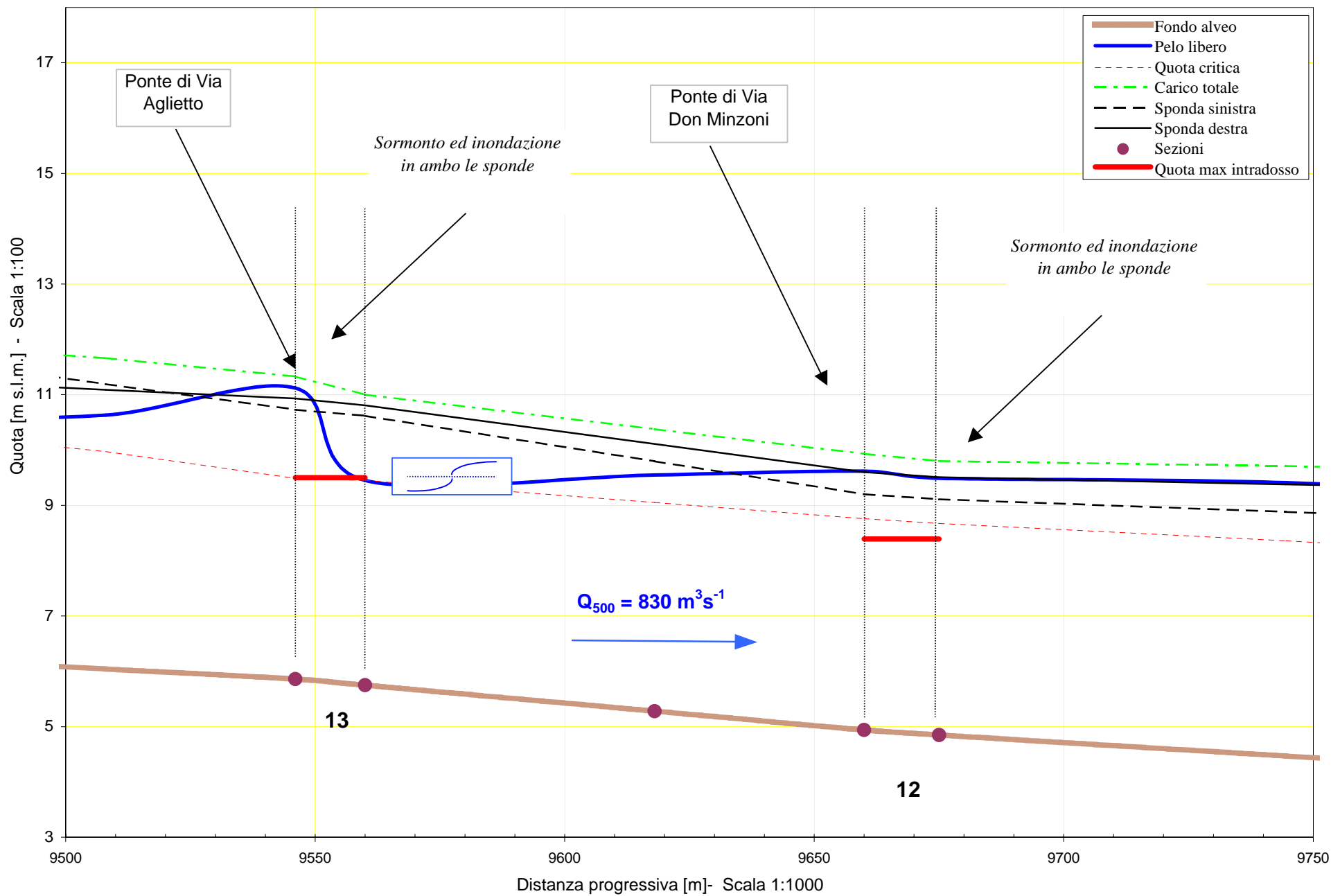
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



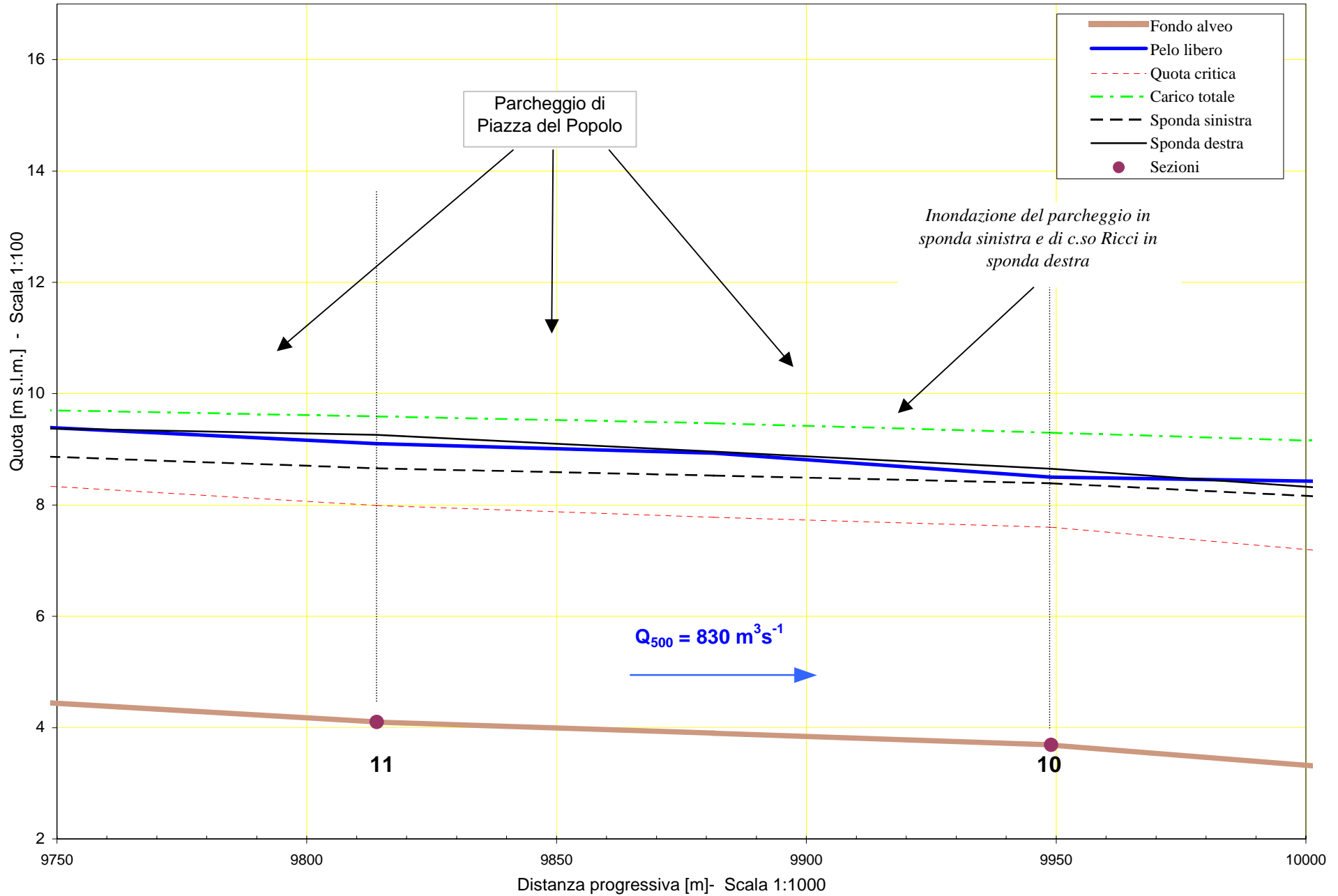
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



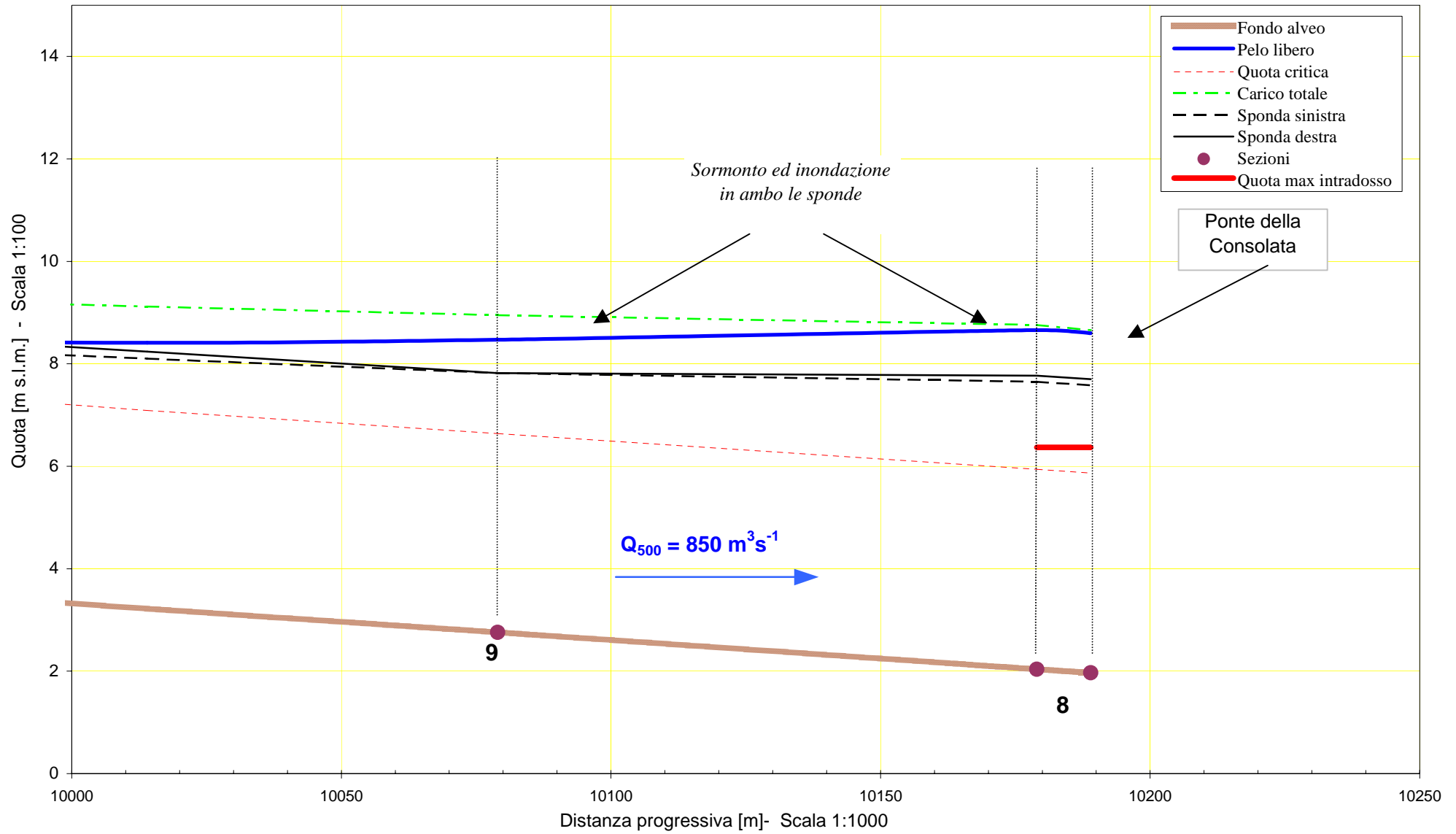
Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni



Torrente Letimbro Modellazione idraulica in moto permanente - Tempo di ritorno T = 500 anni

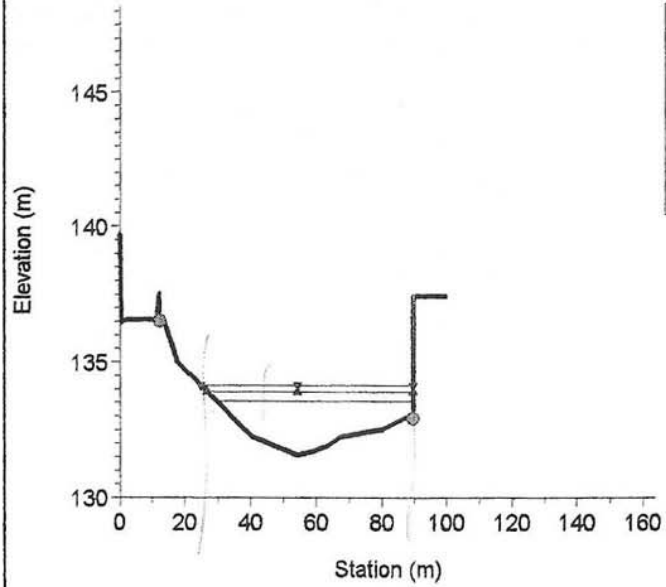


**GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI**

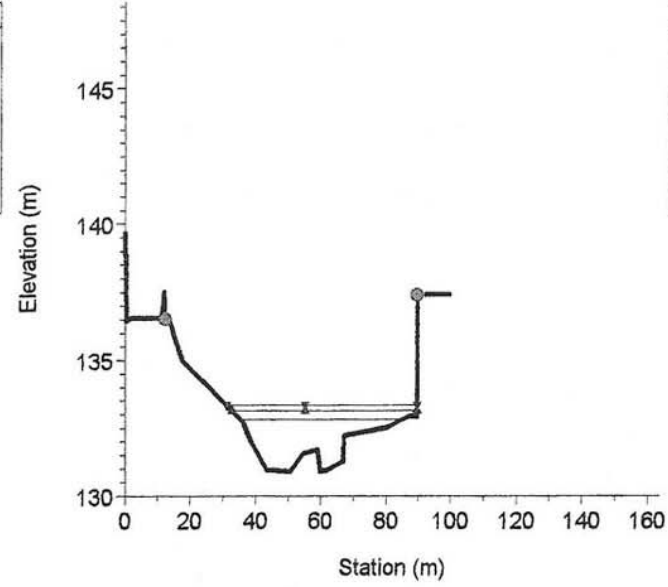
LETIMBRO

DALLA SEZ. 0
ALLA SEZ. 87.2

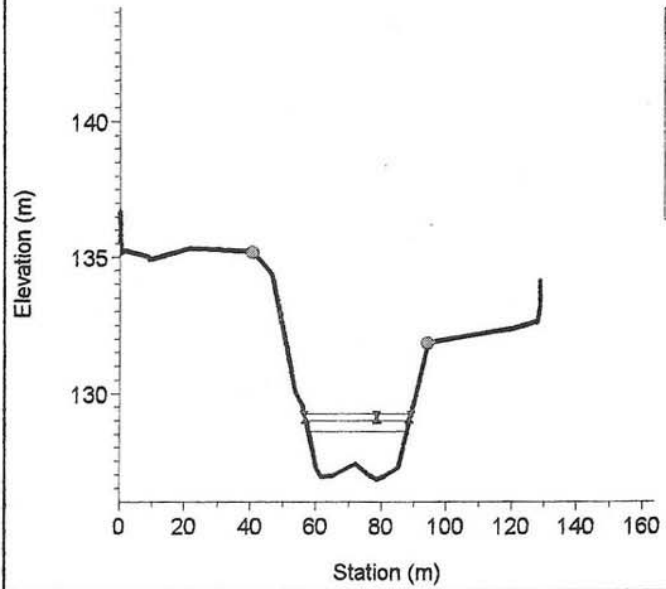
RS 87.2 Torrente Letimbro



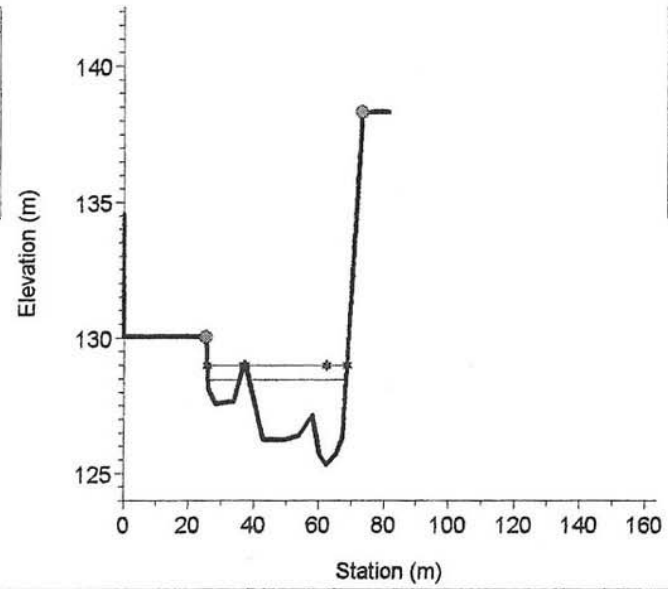
RS 87 Torrente Letimbro



RS 86 Torrente Letimbro

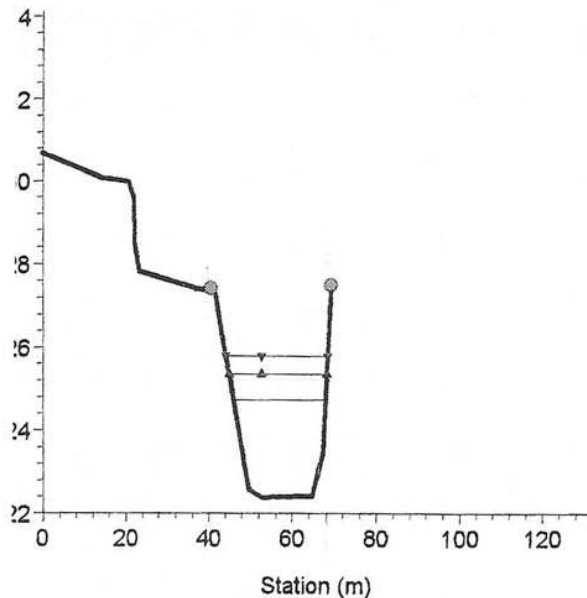


RS 85 Torrente Letimbro

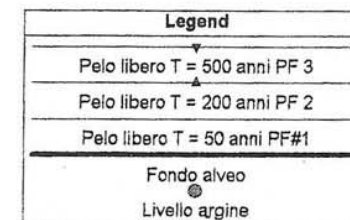
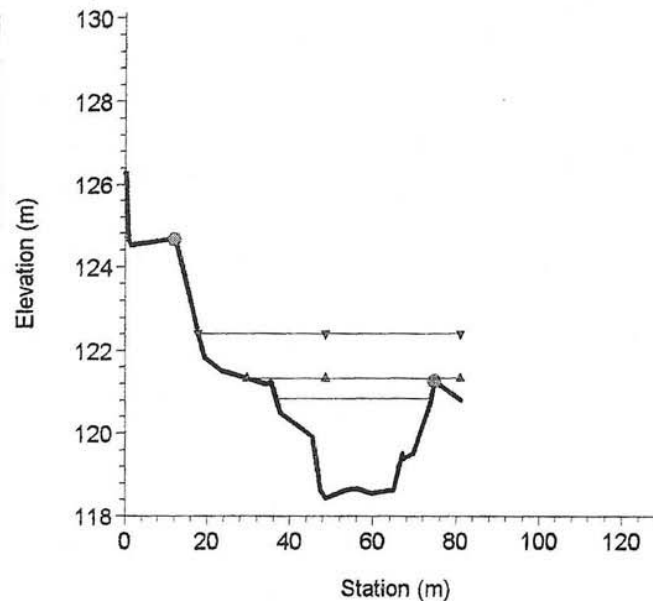


1 cm Horiz. = 25 m 1 cm Vert. = 3 m

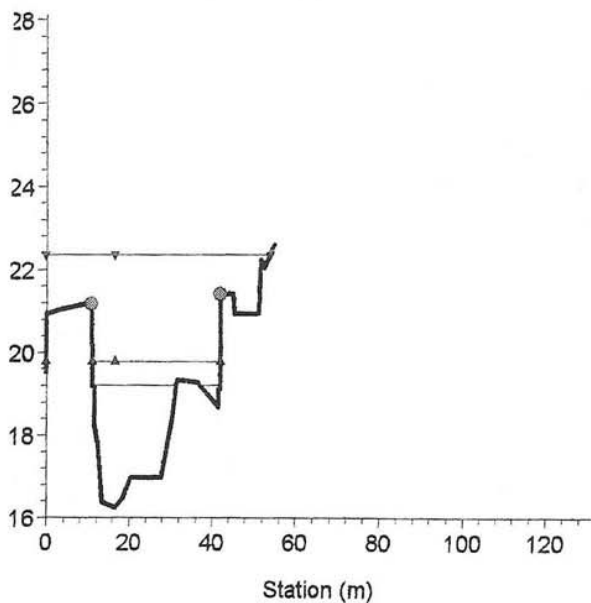
RS 84 Torrente Letimbro



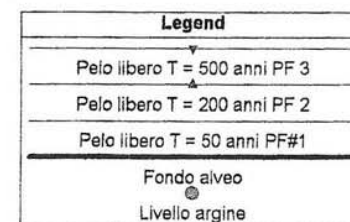
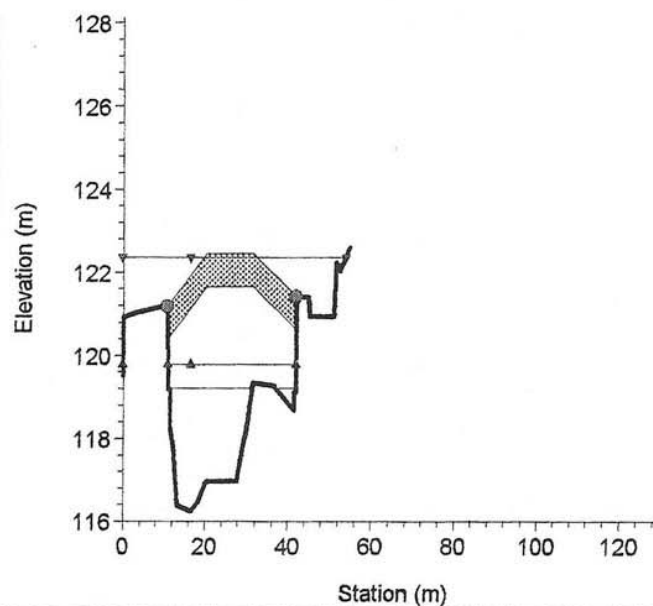
RS 83 Torrente Letimbro



RS 82,1 Torrente Letimbro

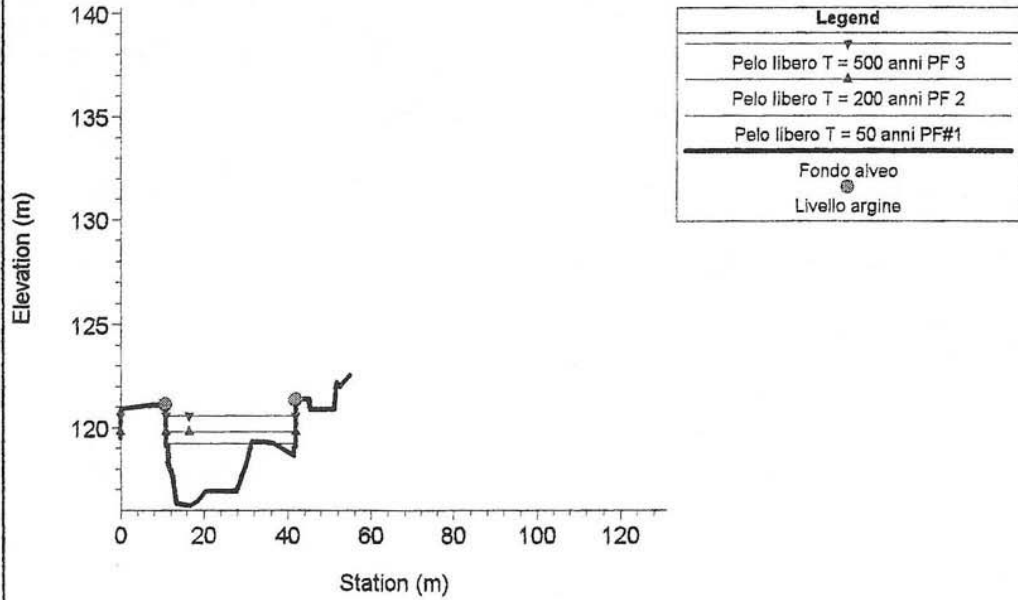


RS 82,05 v Torrente Letimbro

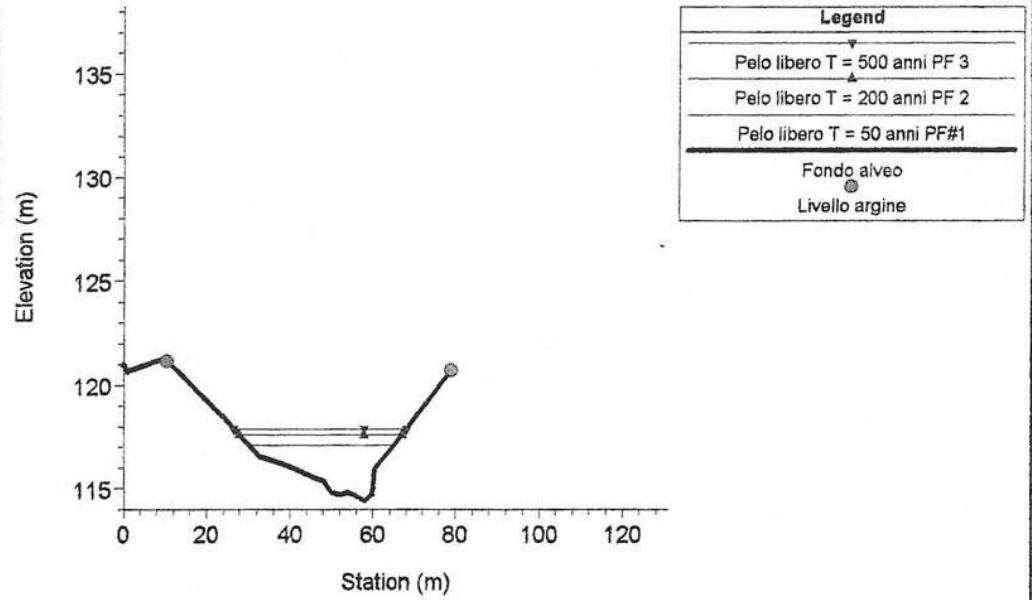


oriz. = 20 m 1 cm Vert. = 2 m

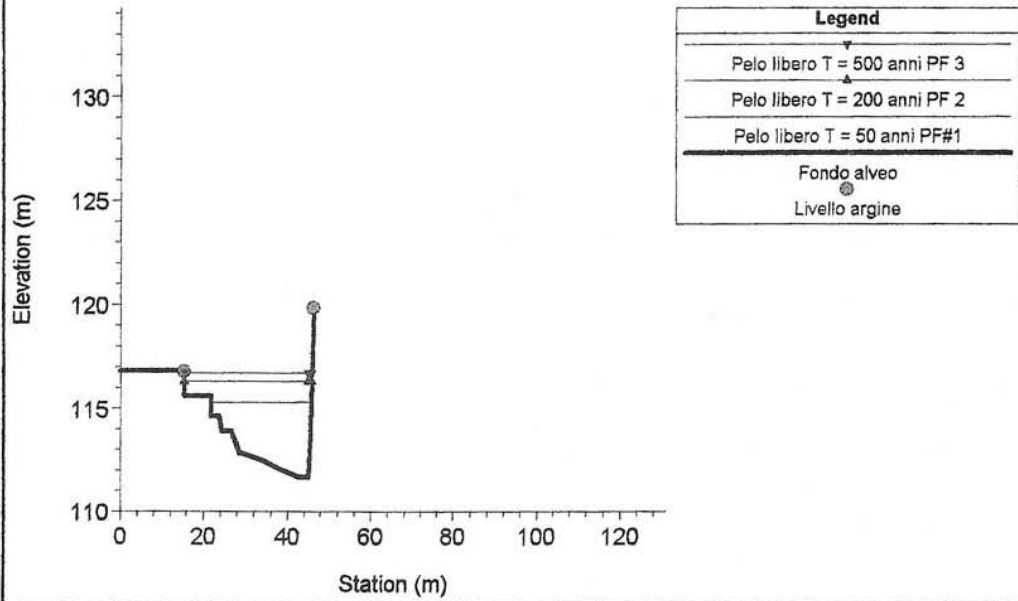
RS 82 Torrente Letimbro



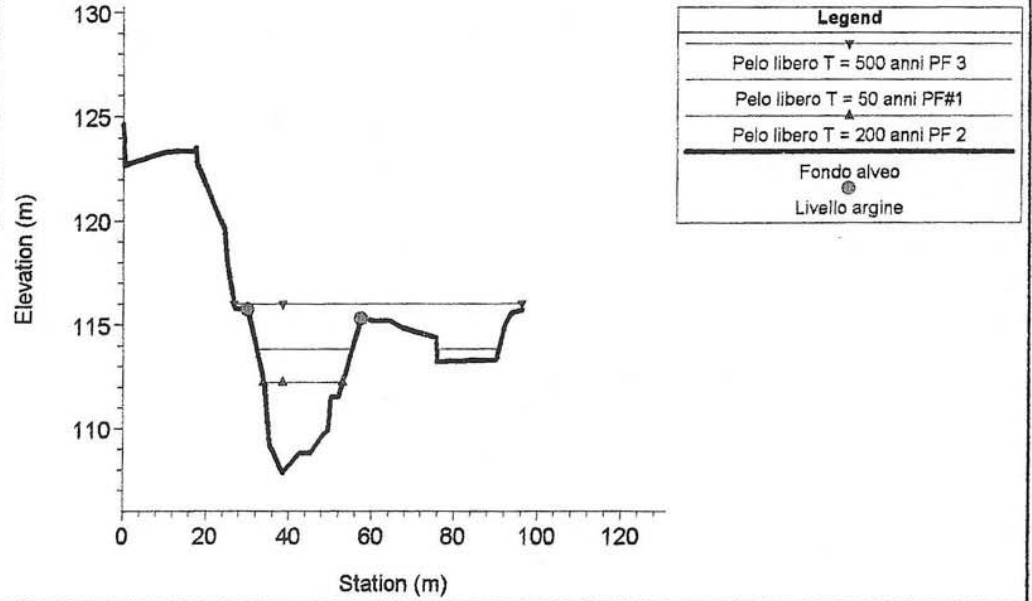
RS 81 Torrente Letimbro



RS 80 Torrente Letimbro

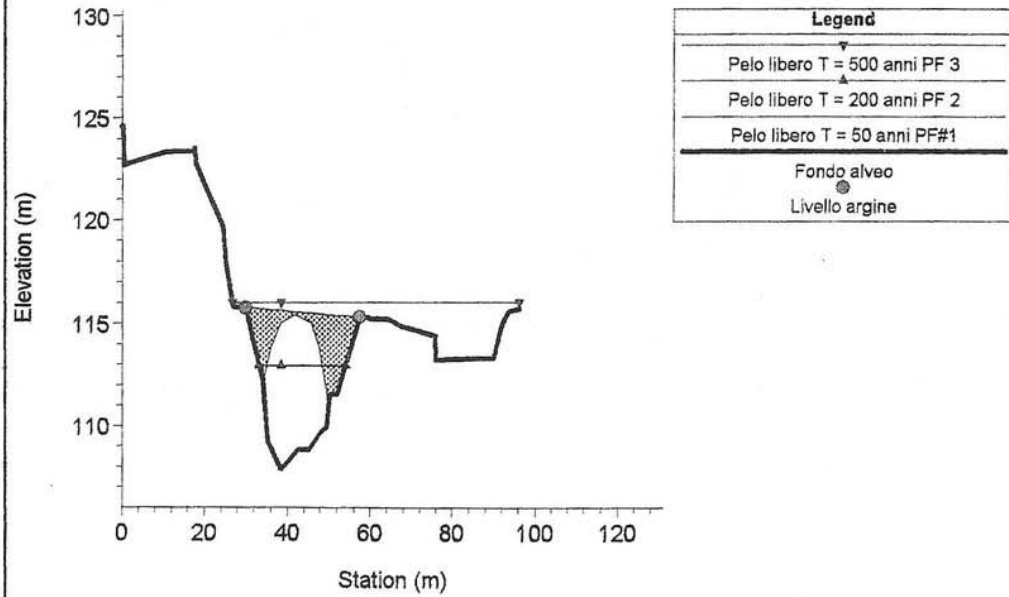


RS 79,1 Torrente Letimbro

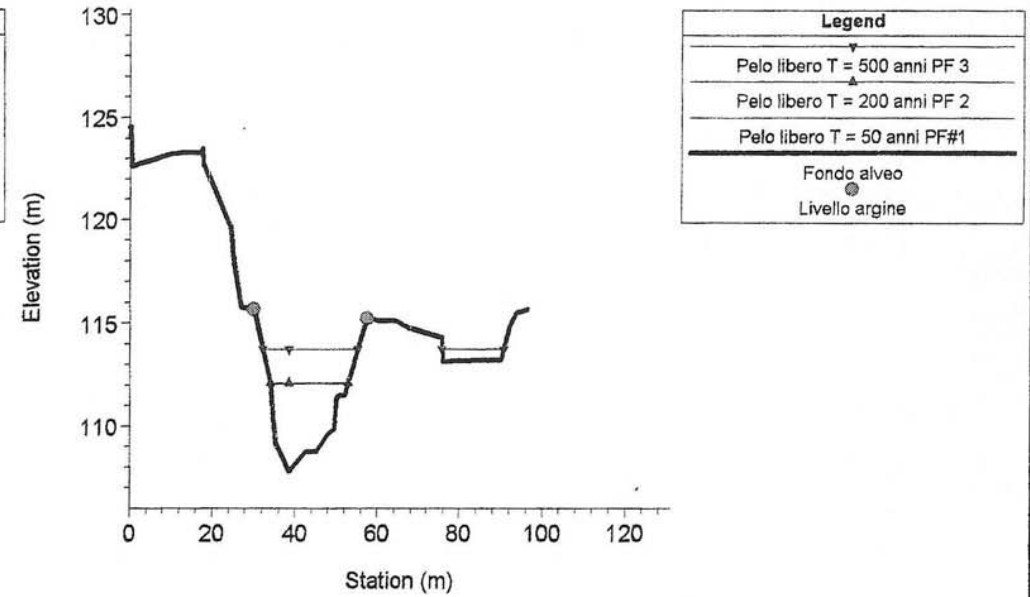


1 cm Horiz. = 20 m 1 cm Vert. = 4 m

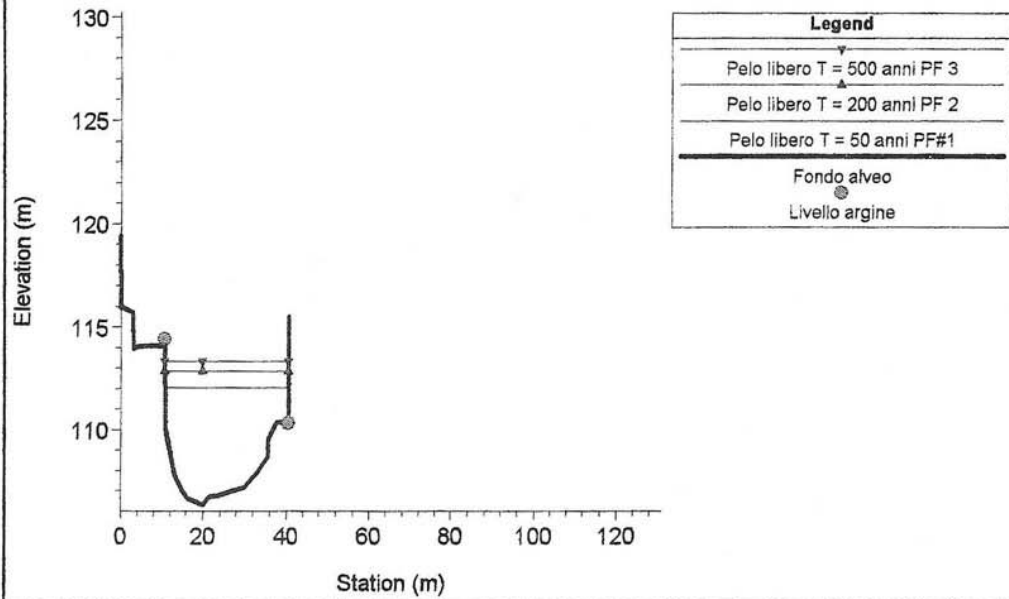
RS 79.05 U Torrente Letimbro



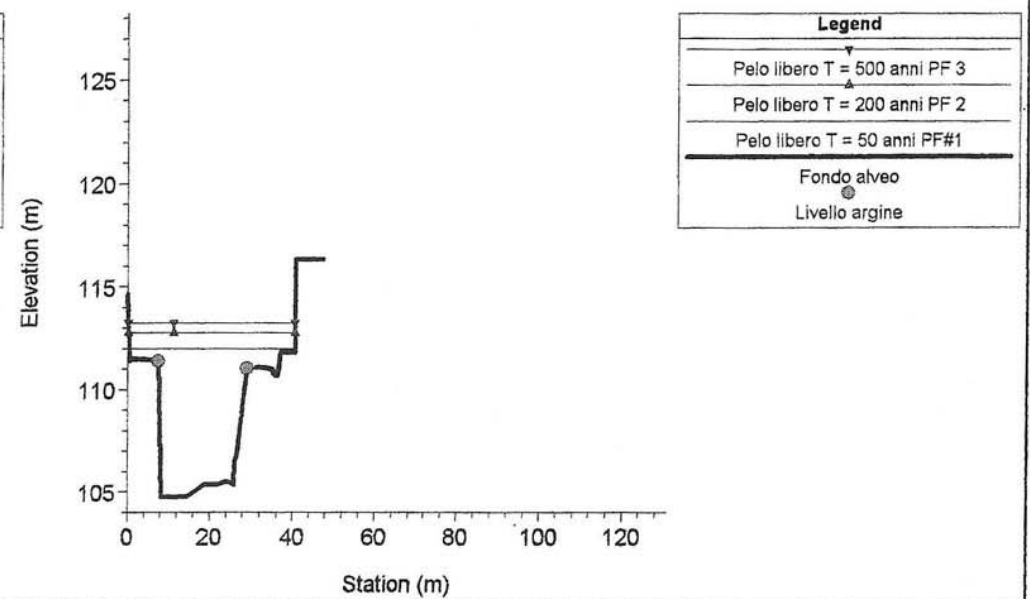
RS 79 Torrente Letimbro



RS 78 Torrente Letimbro

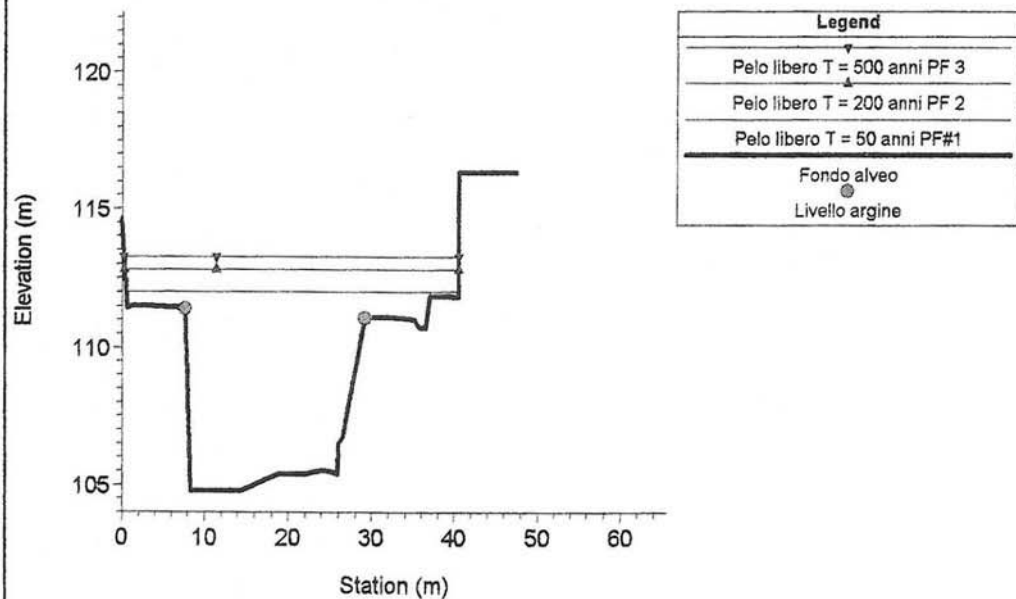


RS 77.1 Torrente Letimbro

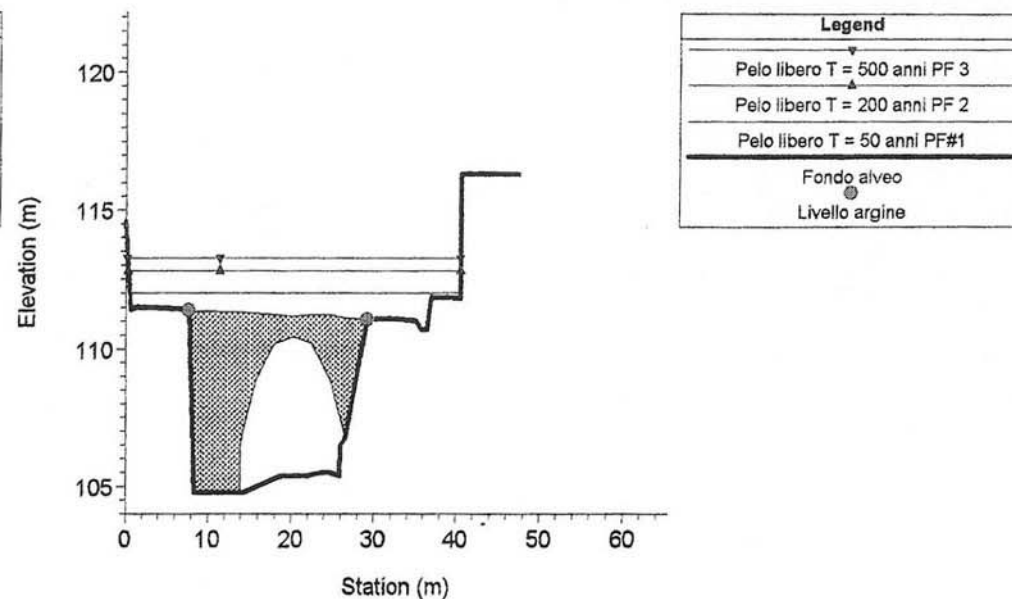


1 cm Horiz. = 20 m 1 cm Vert. = 4 m

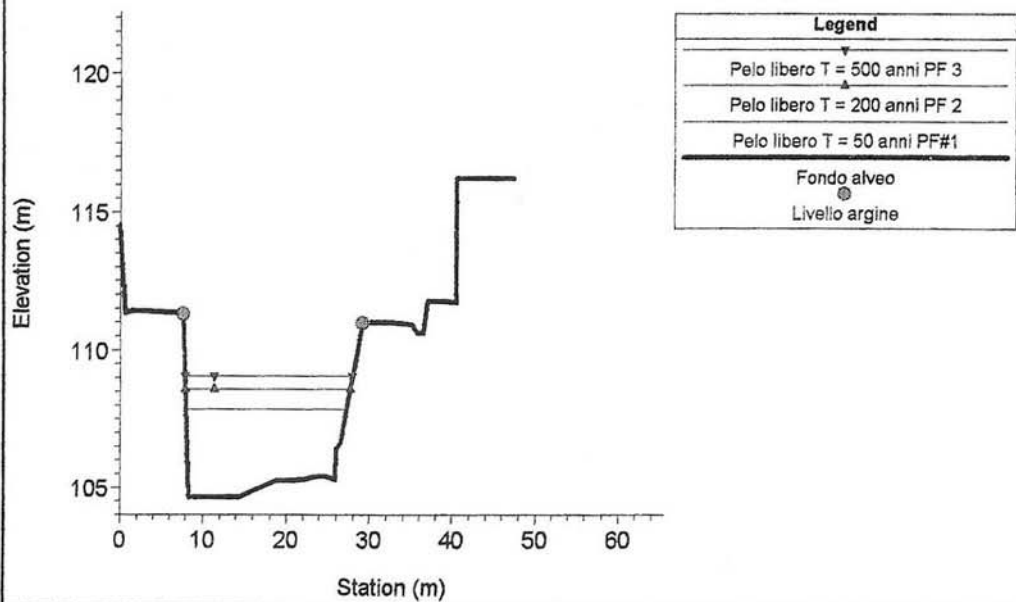
RS = 77.1 Torrente Letimbro



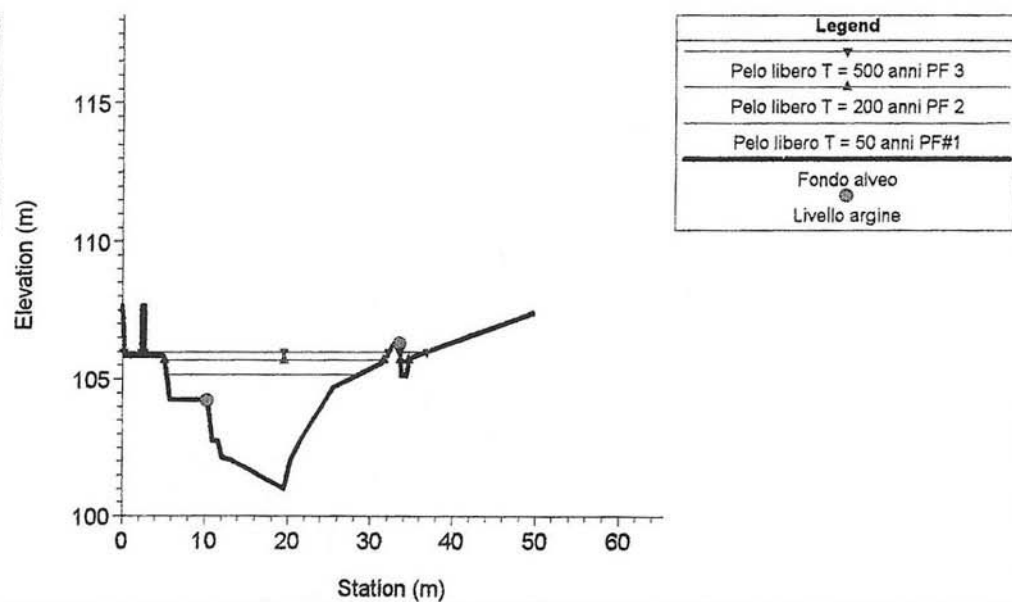
RS = 77.05 Torrente Letimbro



RS = 77.0 Torrente Letimbro

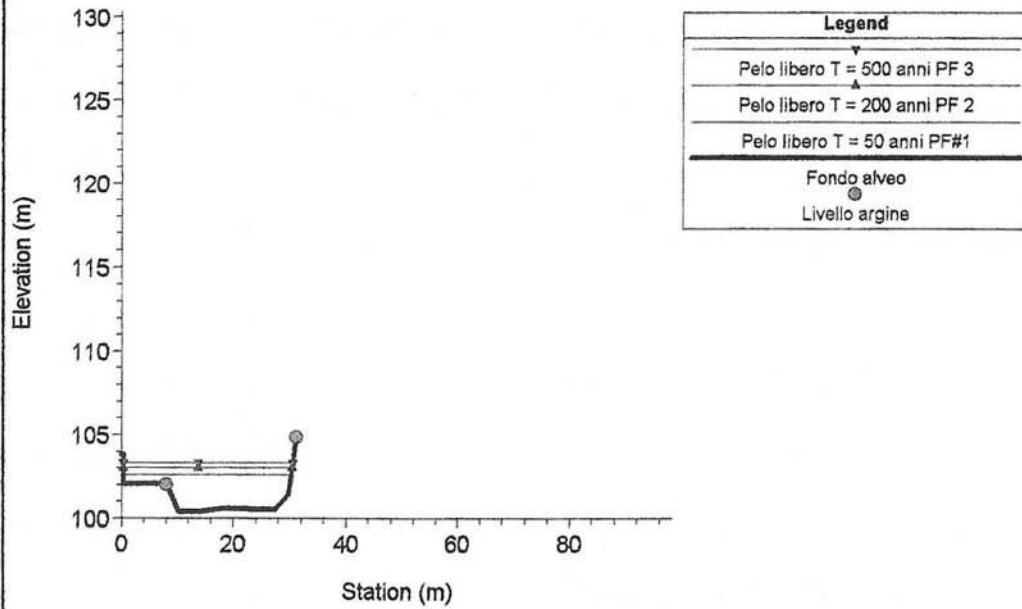


RS = 76 Torrente Letimbro

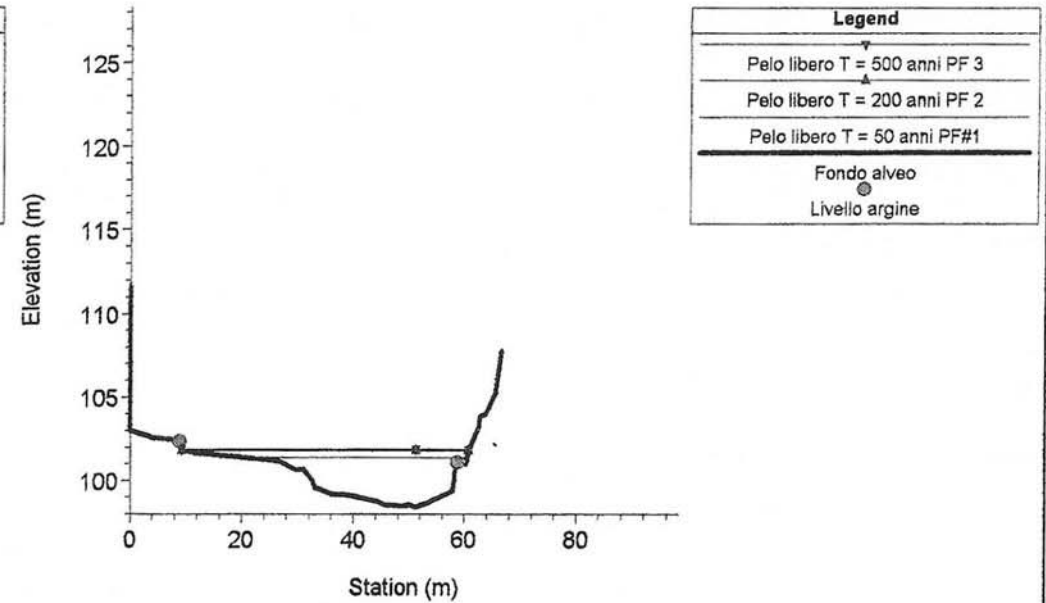


1 cm Horiz. = 10 m 1 cm Vert. = 3 m

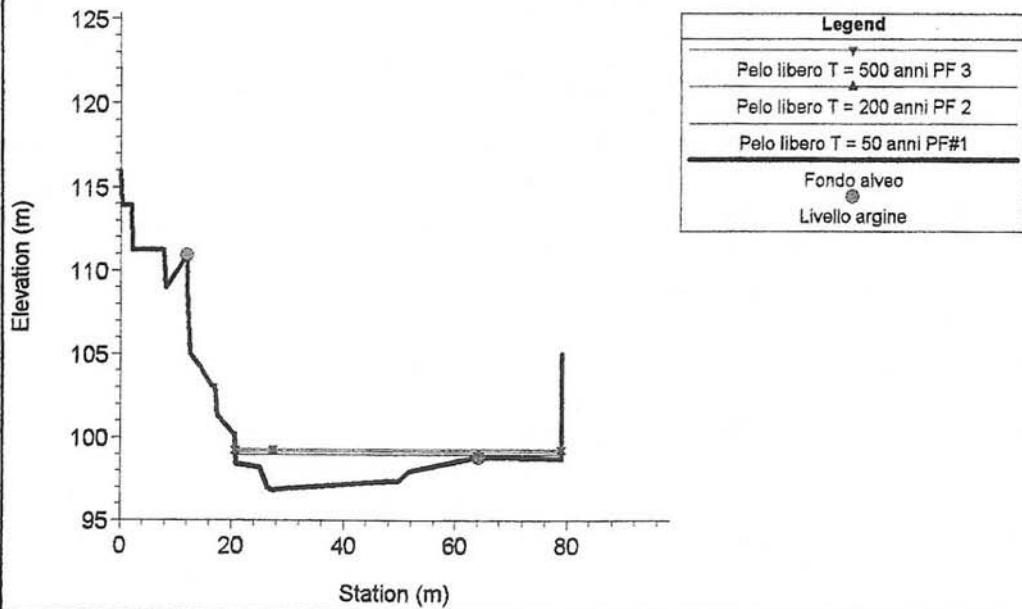
RS = 75 Torrente Letimbro



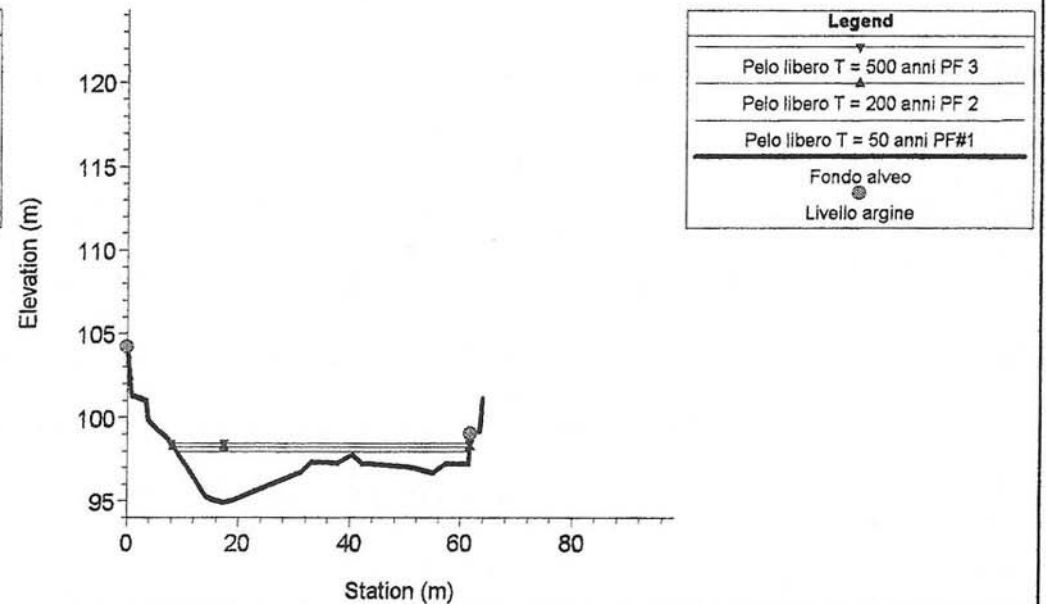
RS = 74 Torrente Letimbro



RS = 73 Torrente Letimbro

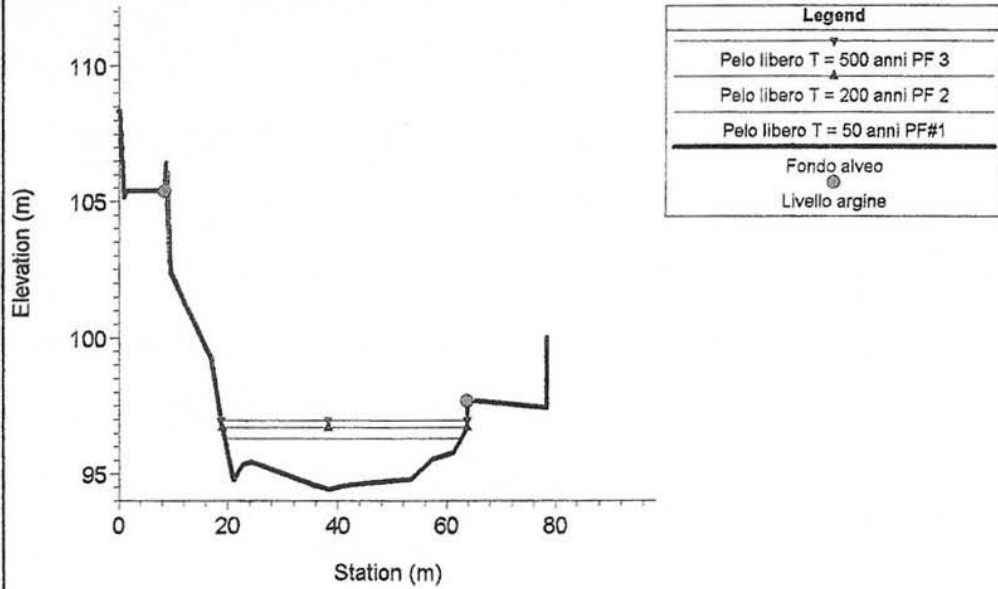


RS = 72 Torrente Letimbro

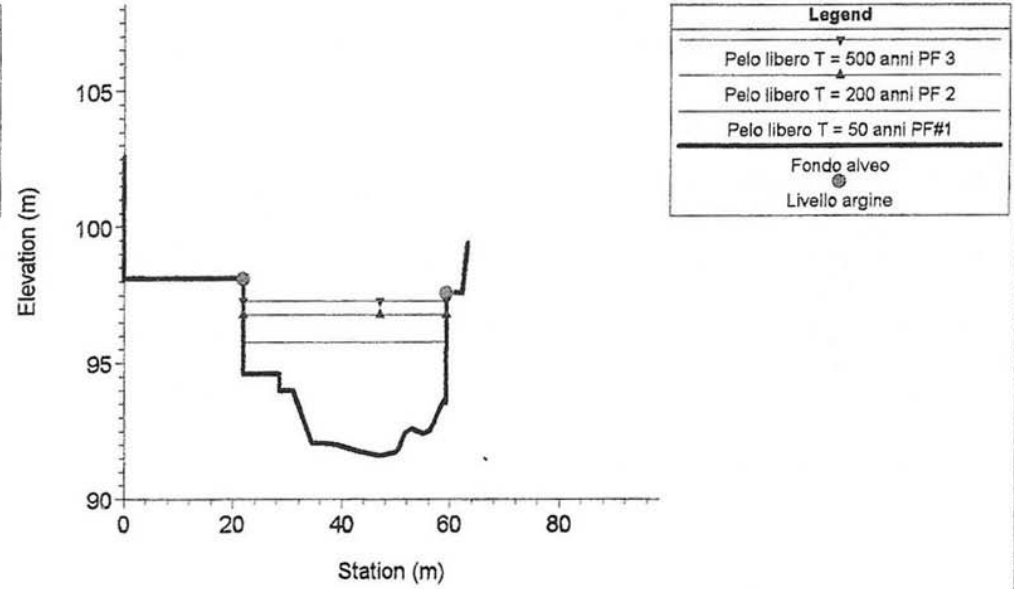


1 cm Horiz. = 15 m 1 cm Vert. = 5 m

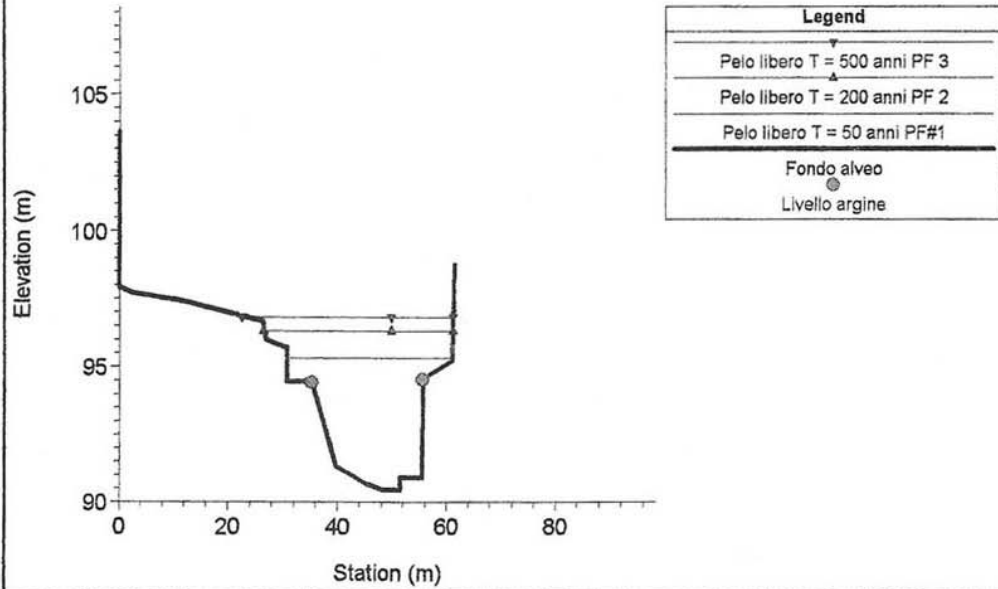
RS = 71 Torrente Letimbro



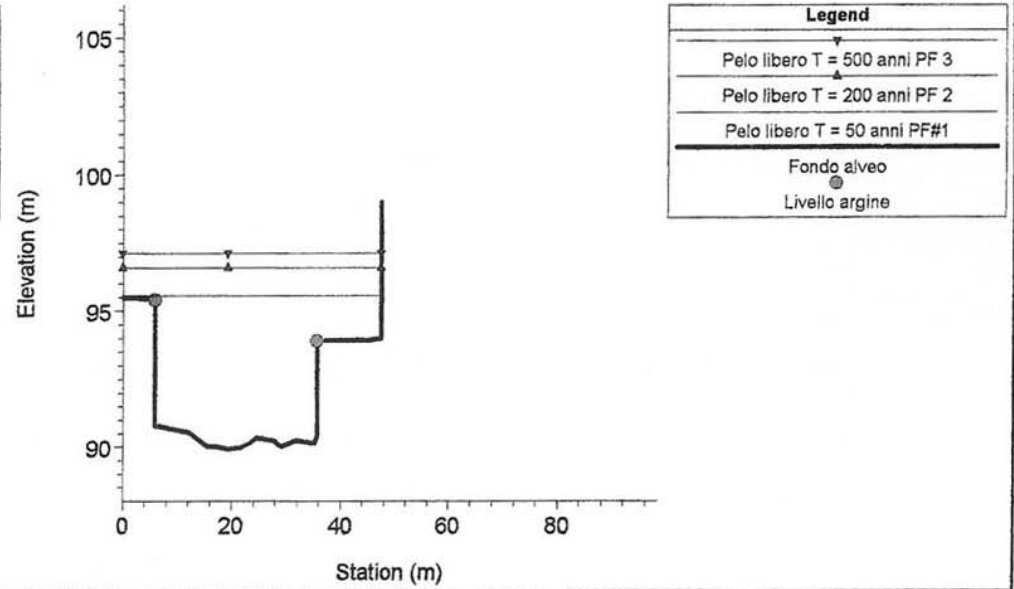
RS = 70 Torrente Letimbro



RS = 69 Torrente Letimbro

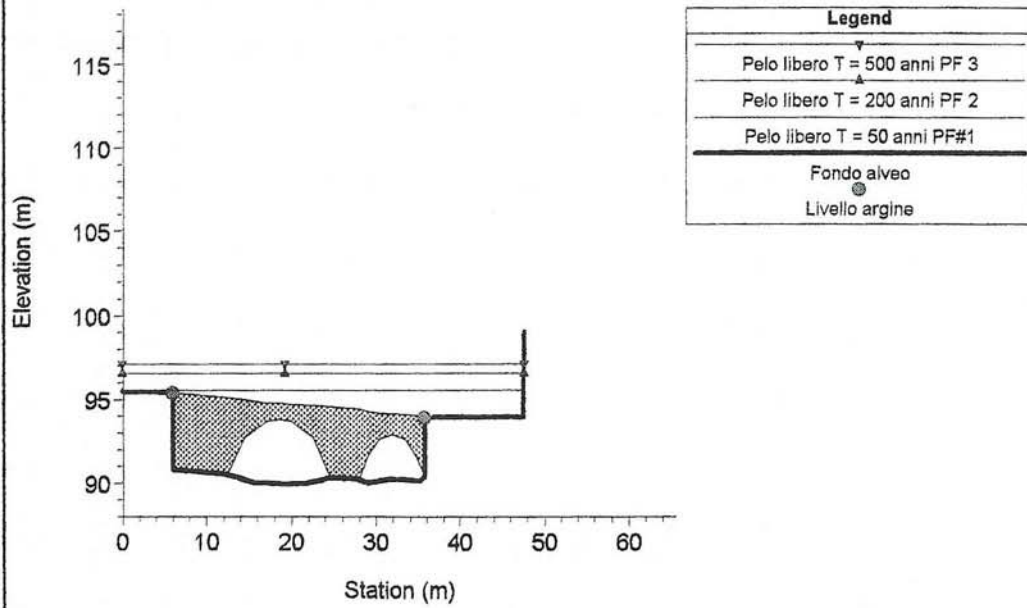


RS = 68.1 Torrente Letimbro

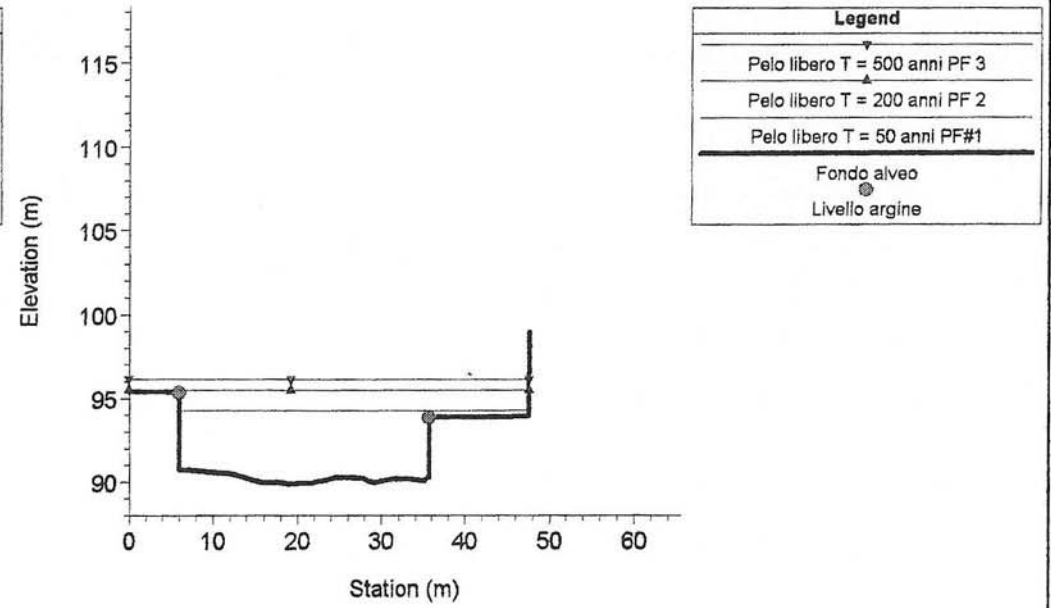


1 cm Horiz. = 15 m 1 cm Vert. = 3 m

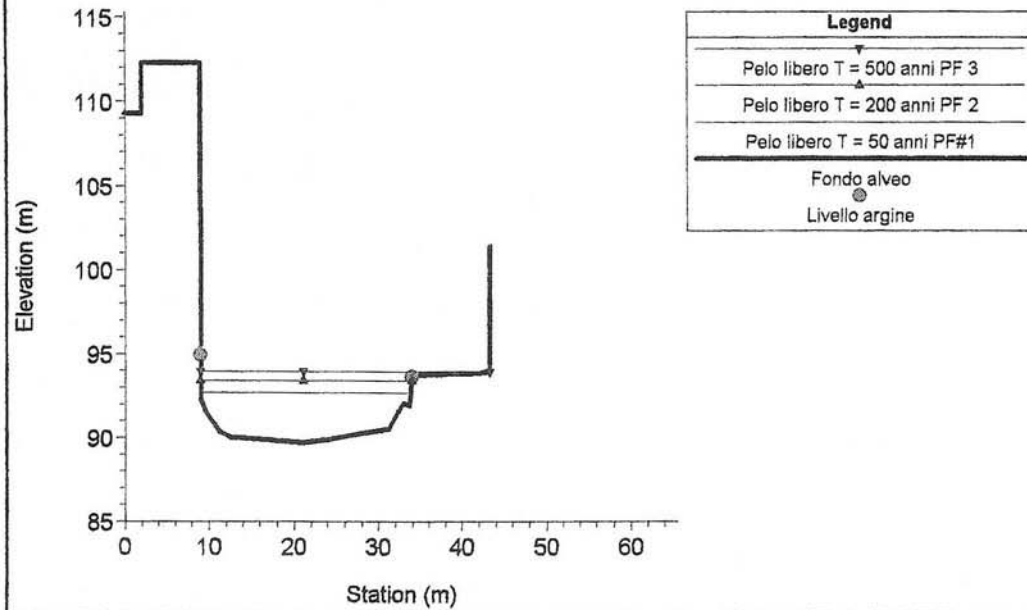
RS = 68.05 Torrente Letimbro



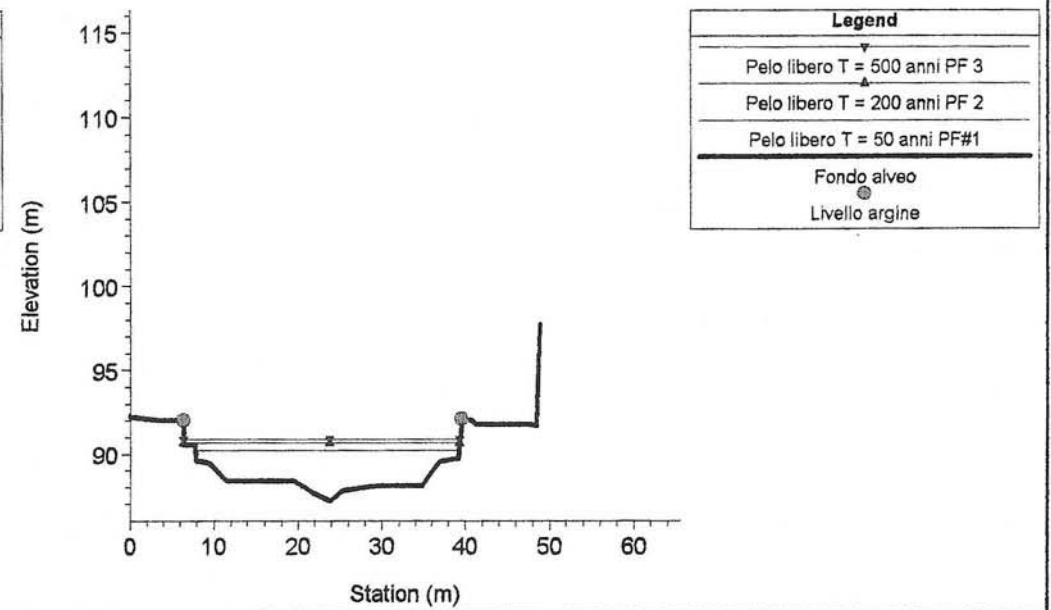
RS = 68.0 Torrente Letimbro



RS = 67 Torrente Letimbro

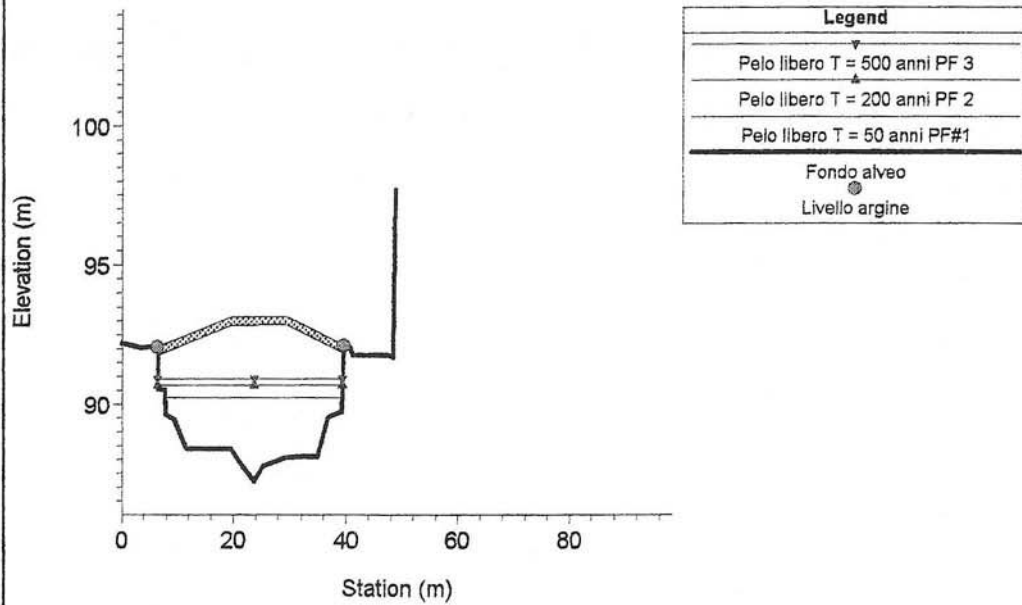


RS = 66.1 Torrente Letimbro

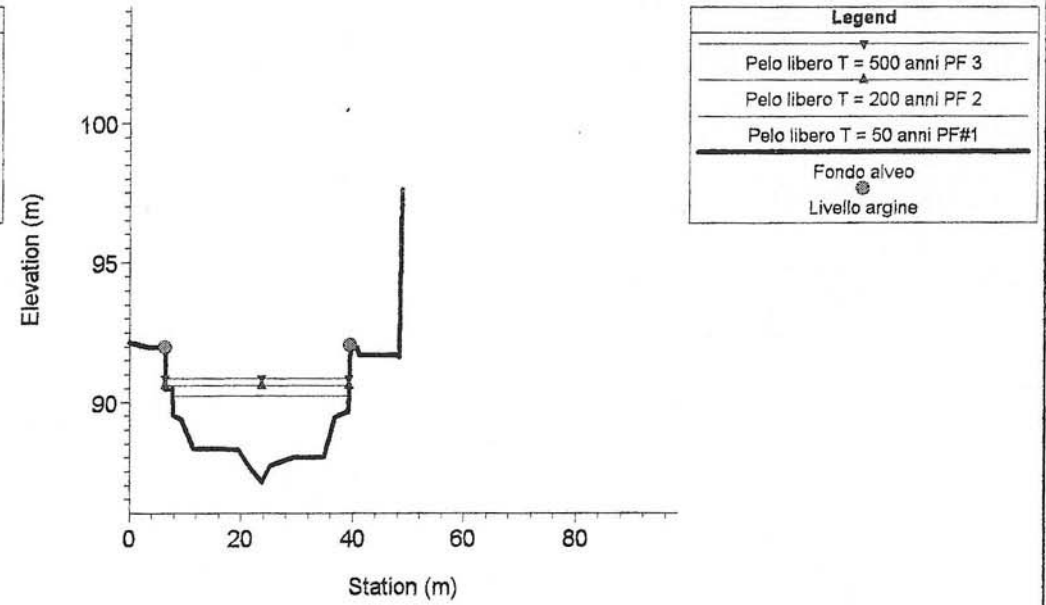


1 cm Horiz. = 10 m 1 cm Vert. = 5 m

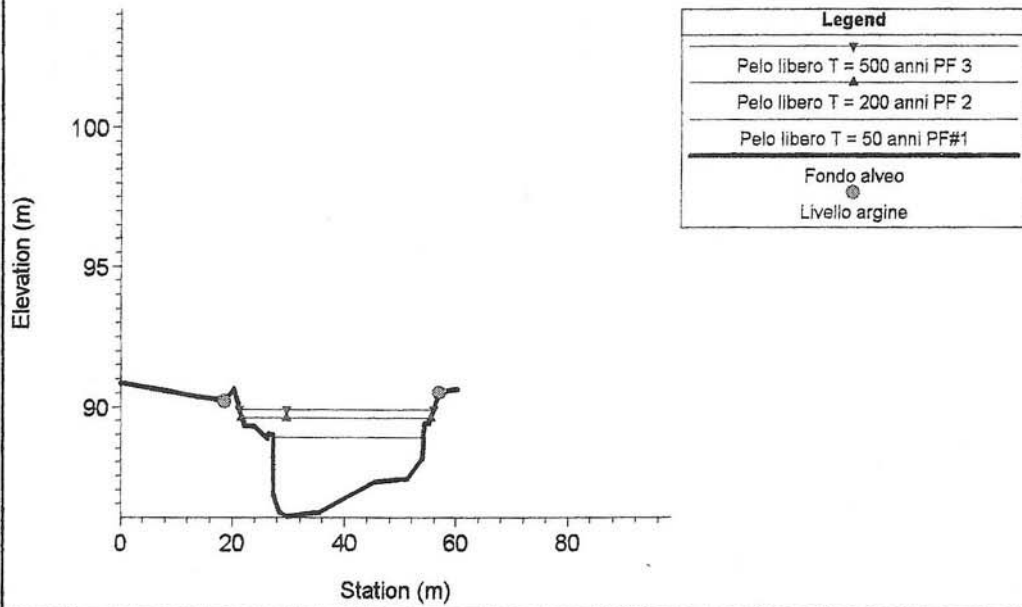
RS = 66.05 Torrente Letimbro



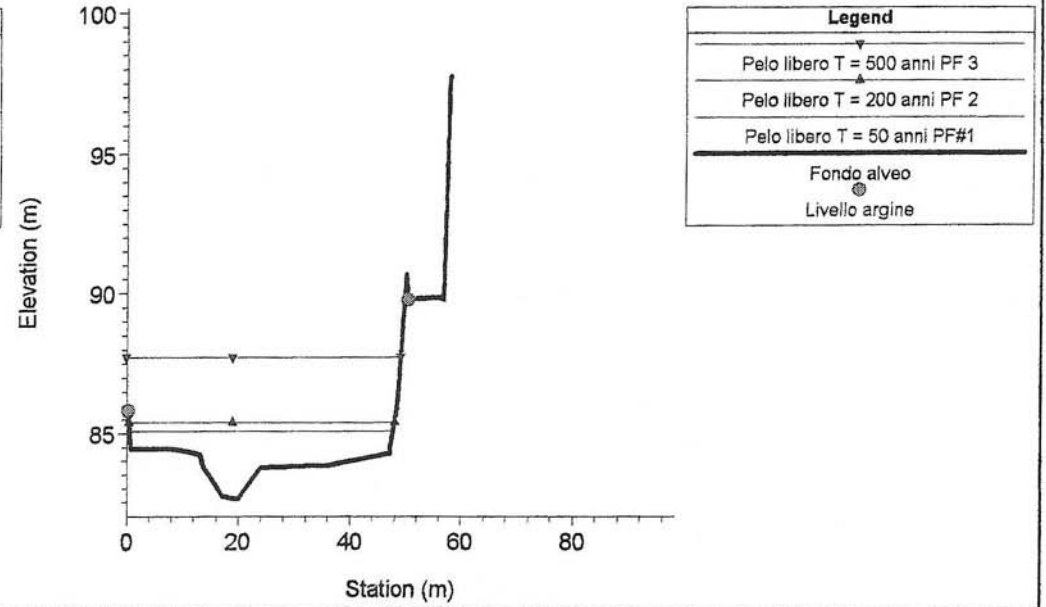
RS = 66.0 Torrente Letimbro



RS = 65 Torrente Letimbro

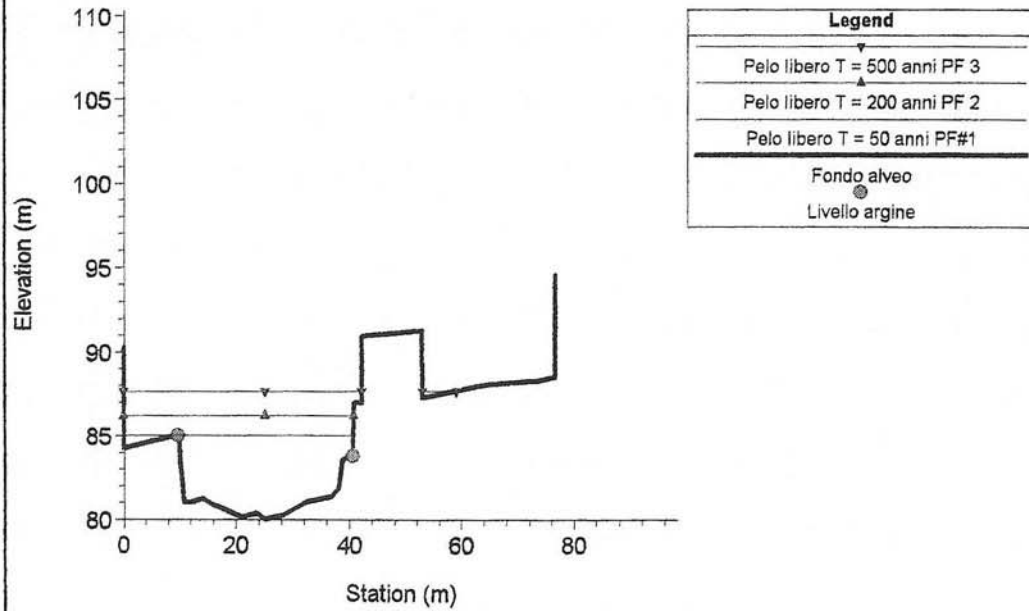


RS = 64 Torrente Letimbro

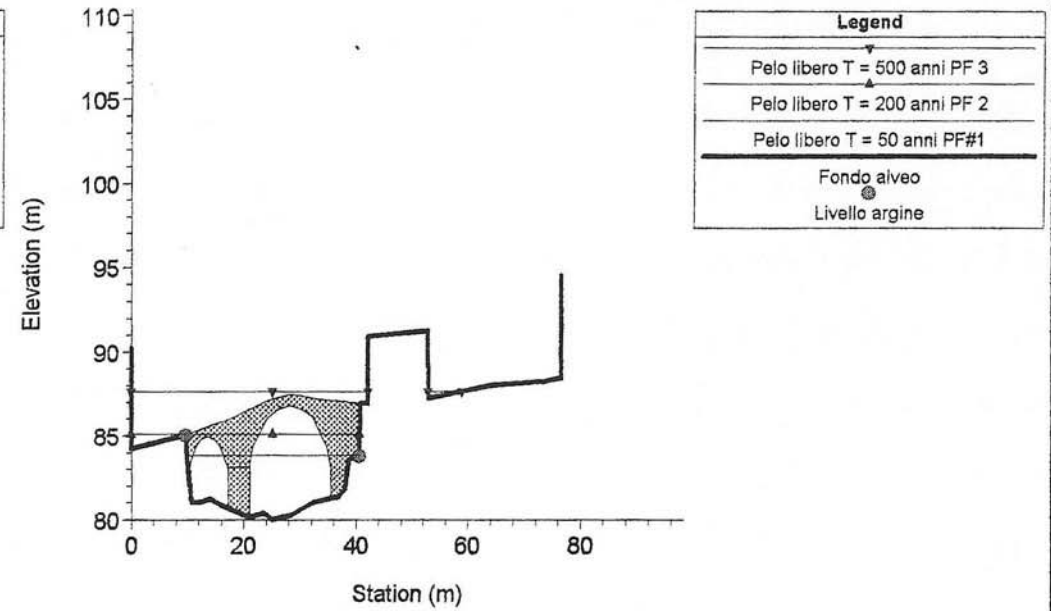


1 cm Horiz. = 15 m 1 cm Vert. = 3 m

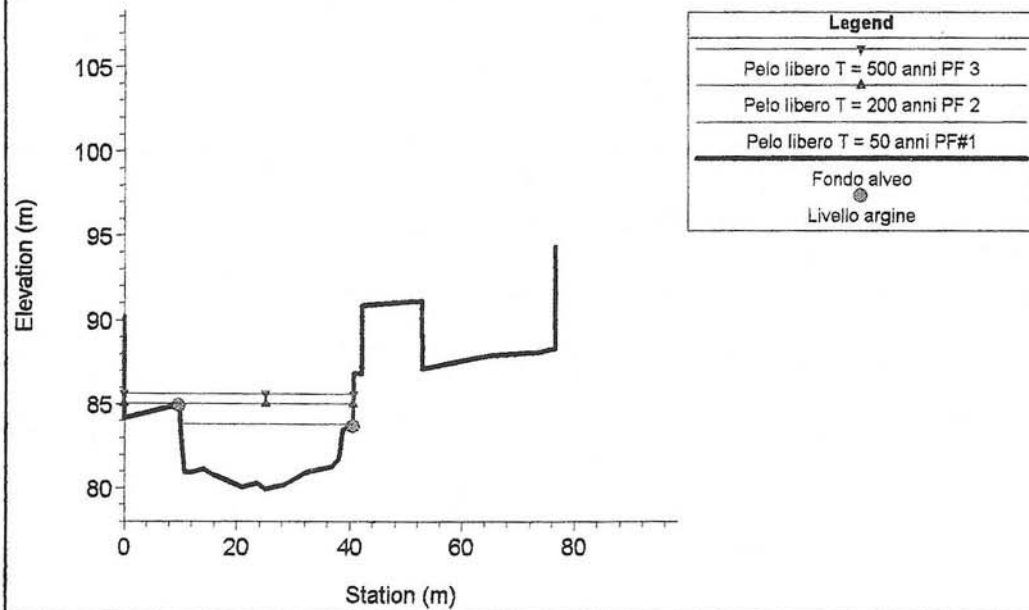
RS = 63.1 Torrente Letimbro



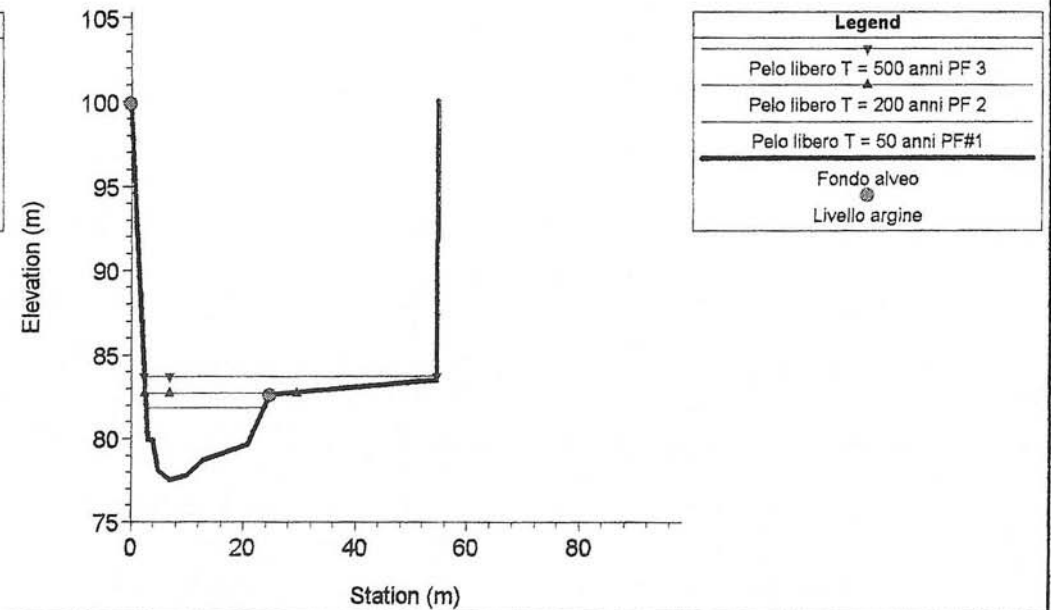
RS = 63.05 Torrente Letimbro



RS = 63.0 Torrente Letimbro

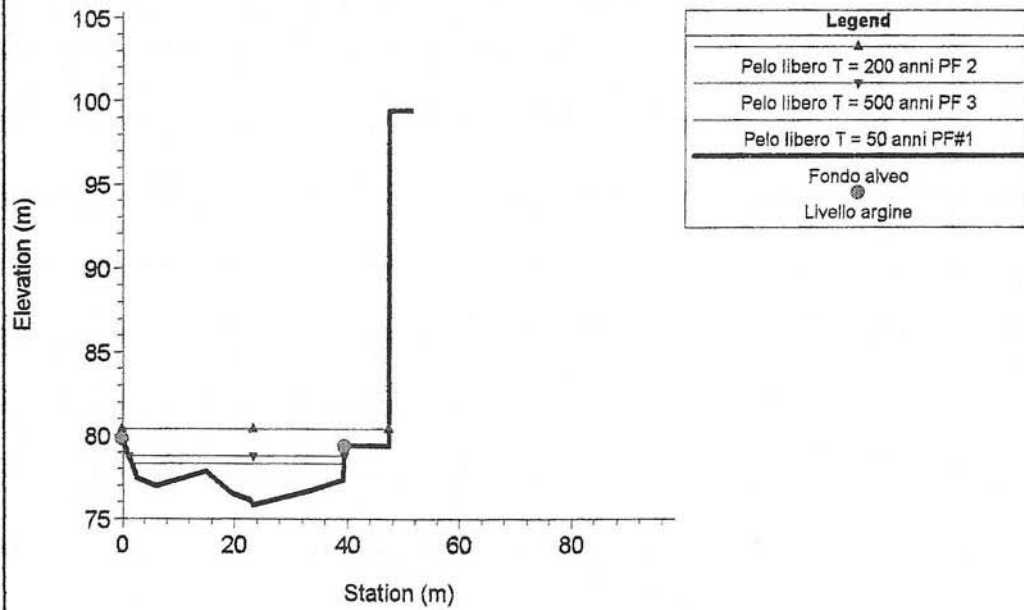


RS = 62 Torrente Letimbro

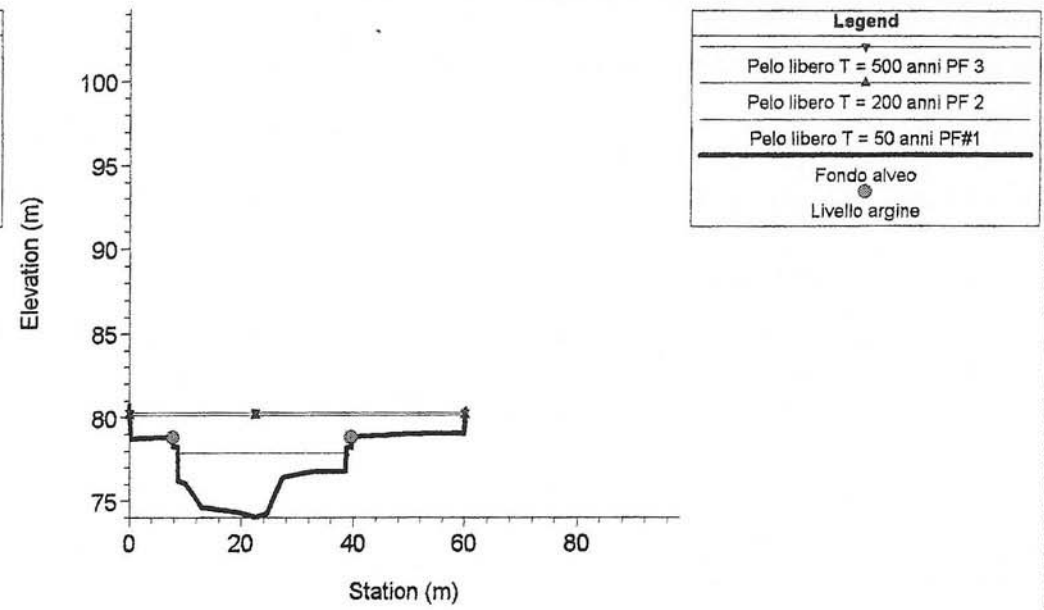


1 cm Horiz. = 15 m 1 cm Vert. = 5 m

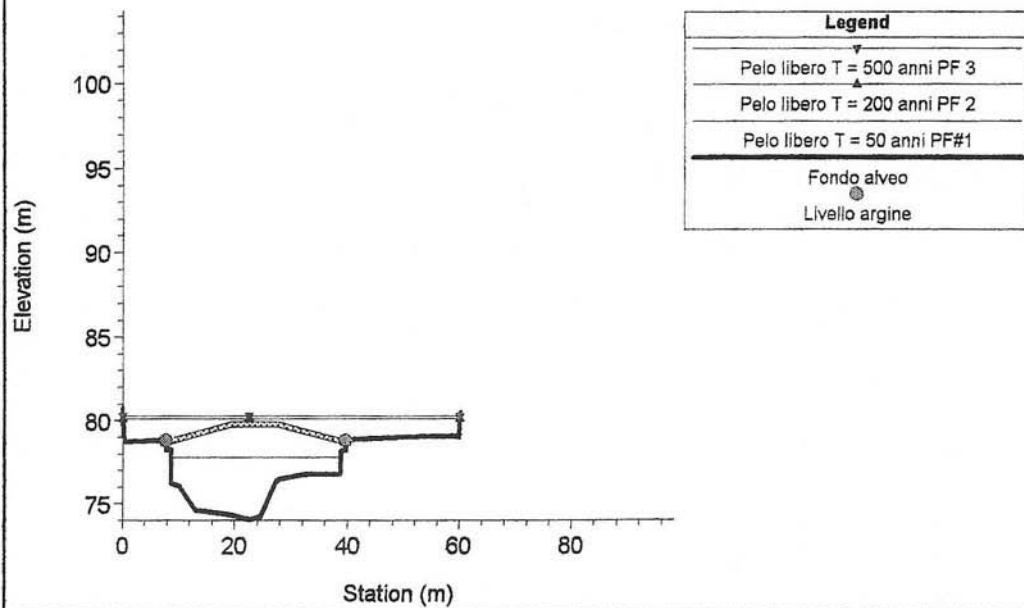
RS = 61 Torrente Letimbro



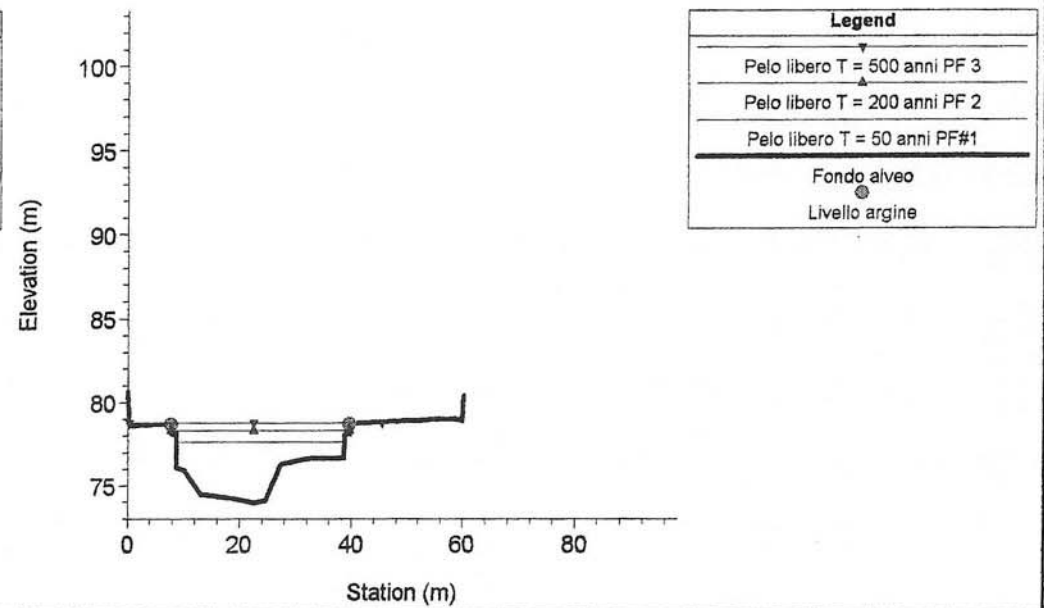
RS = 60.1 Torrente Letimbro



RS = 60.05 Torrente Letimbro

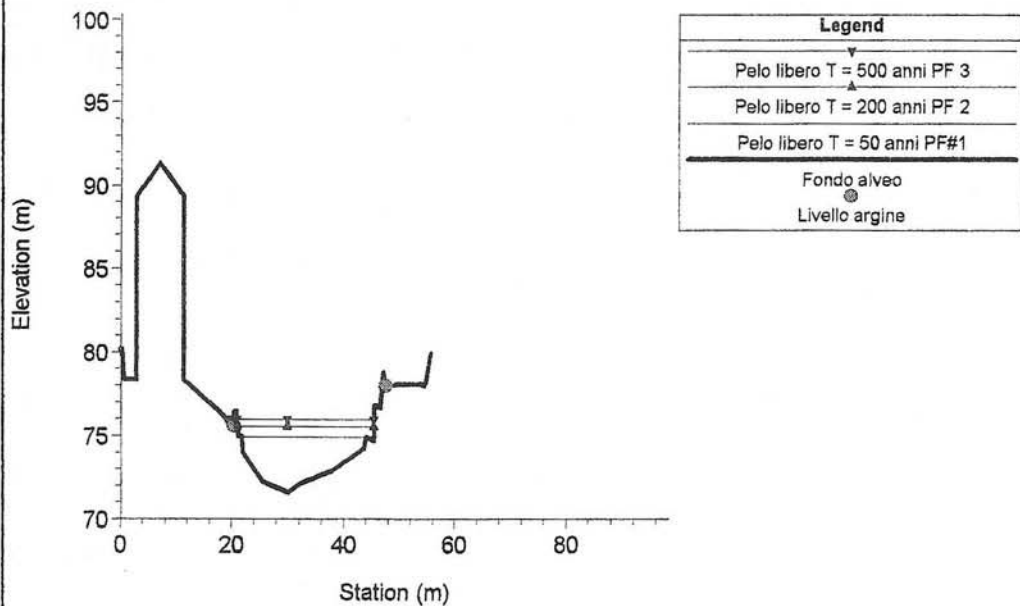


RS = 60.0 Torrente Letimbro

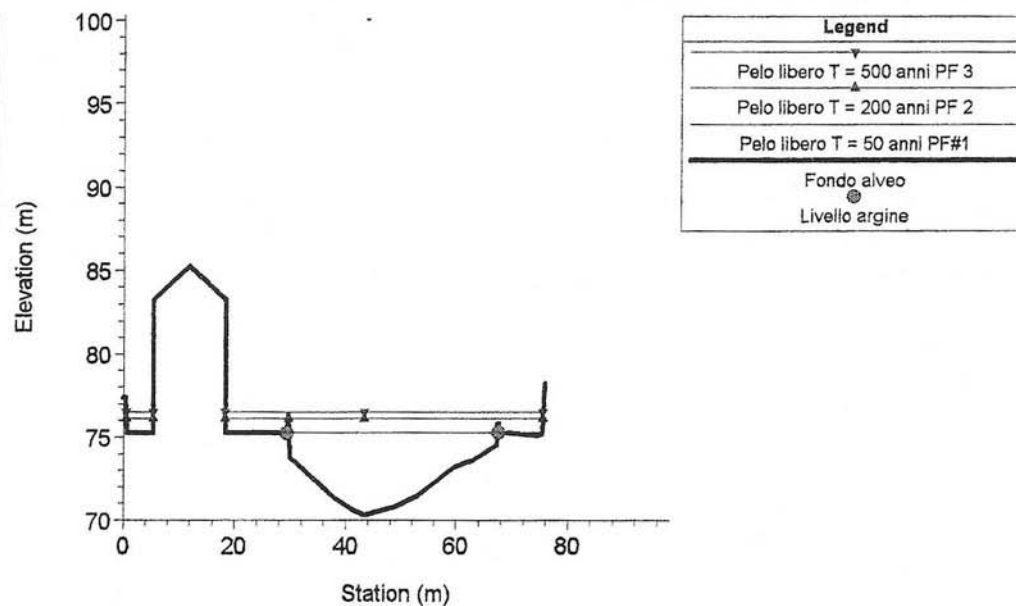


1 cm Horiz. = 15 m 1 cm Vert. = 5 m

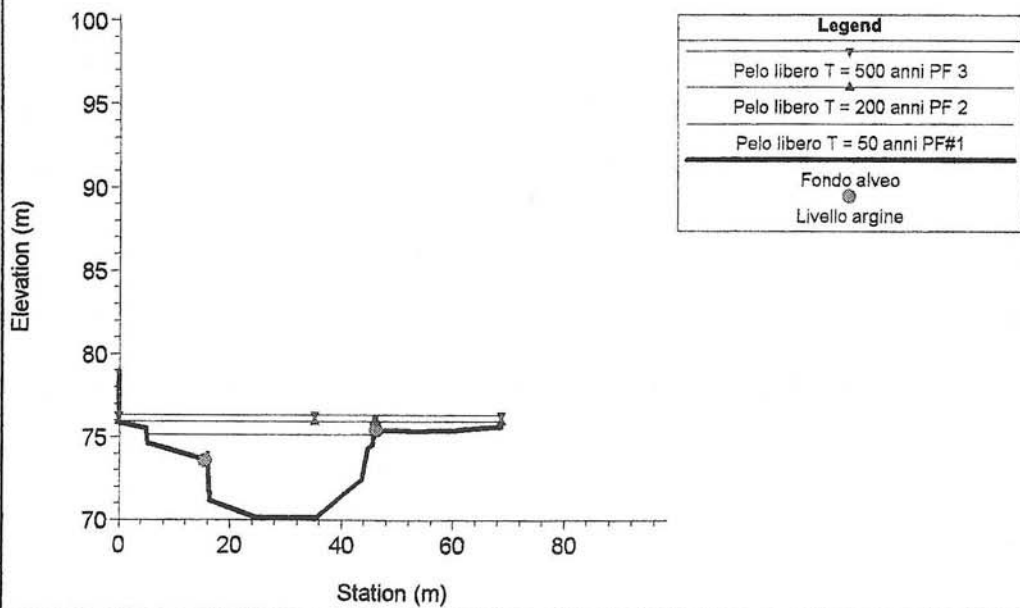
RS = 59 Torrente Letimbro



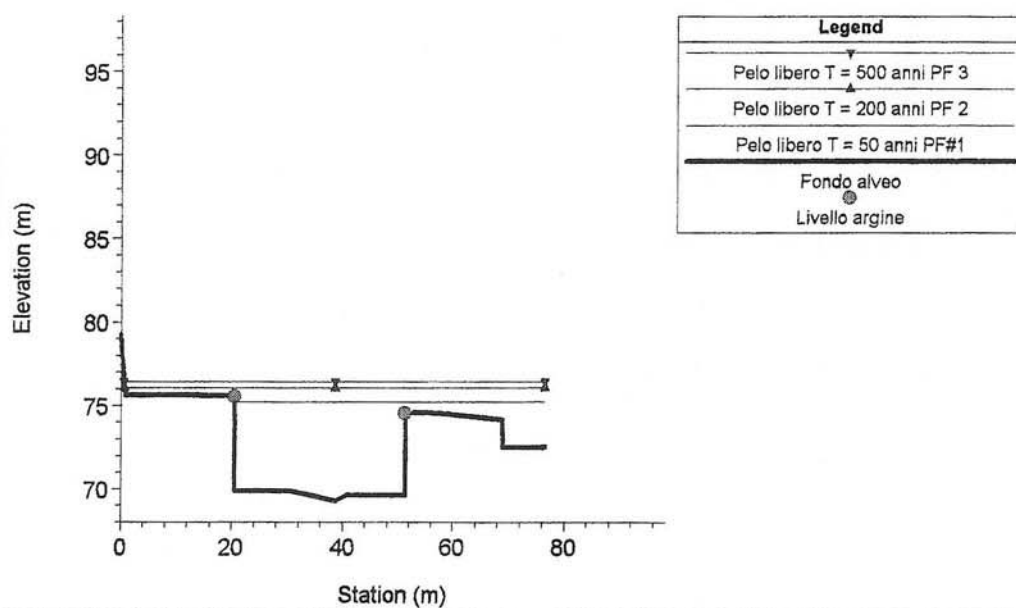
RS = 58 Torrente Letimbro



RS = 57 Torrente Letimbro

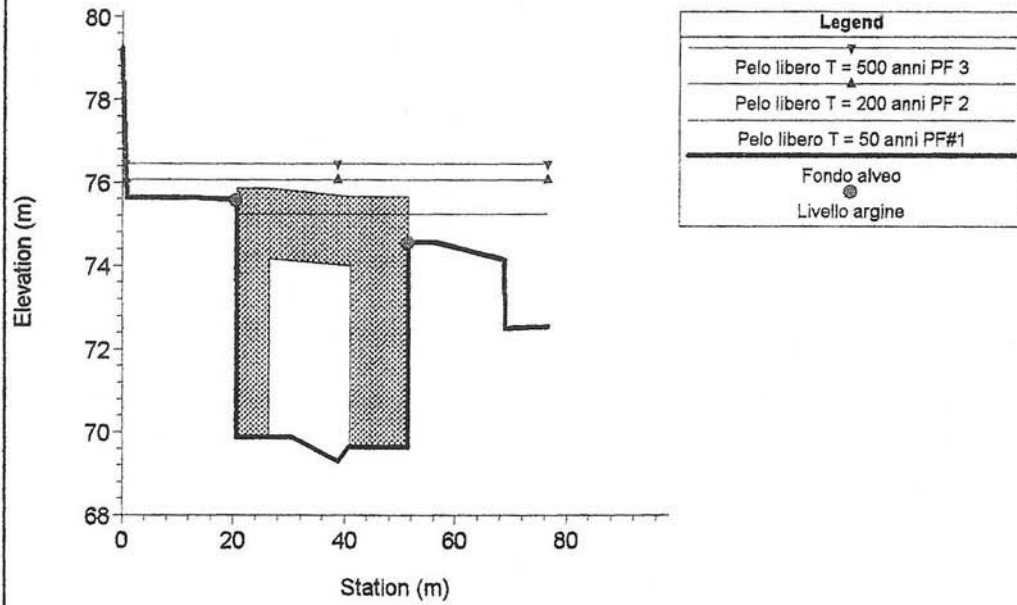


RS = 56.1 Torrente Letimbro

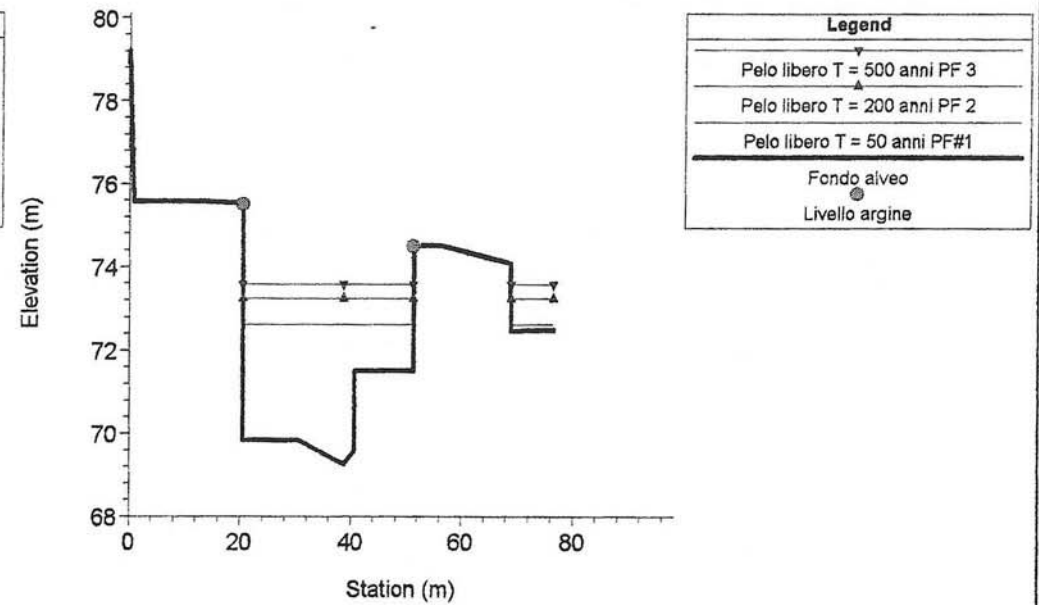


1 cm Horiz. = 15 m 1 cm Vert. = 5 m

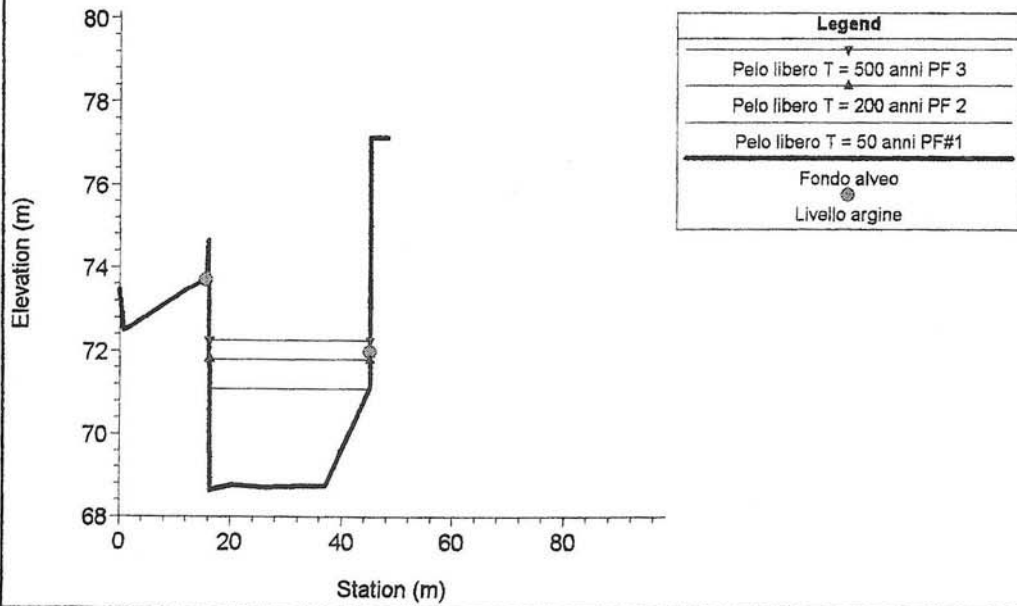
RS = 56.05 Torrente Letimbro



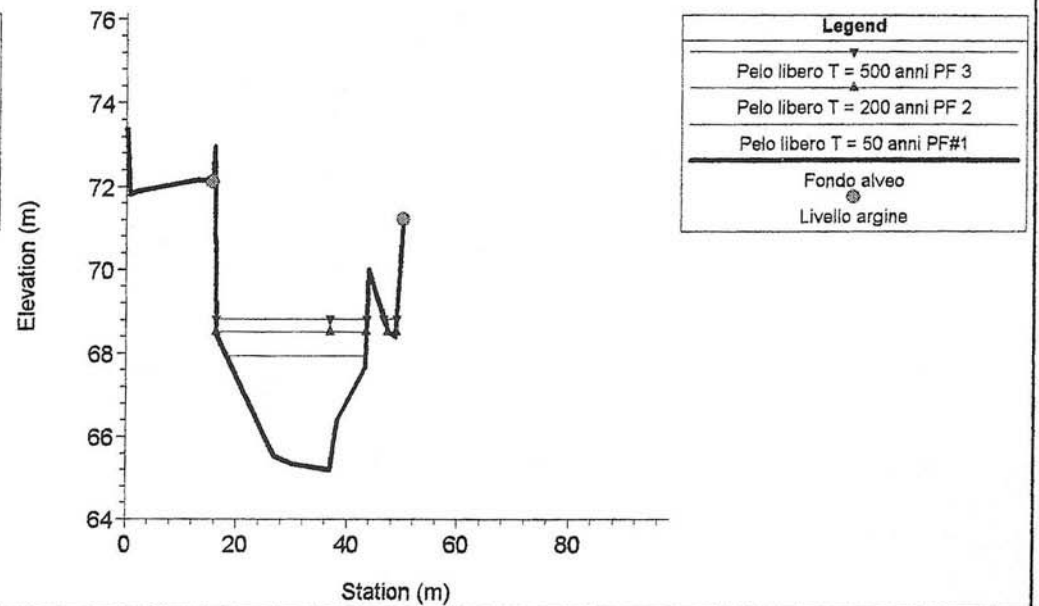
RS = 56.0 Torrente Letimbro



RS = 55 Torrente Letimbro

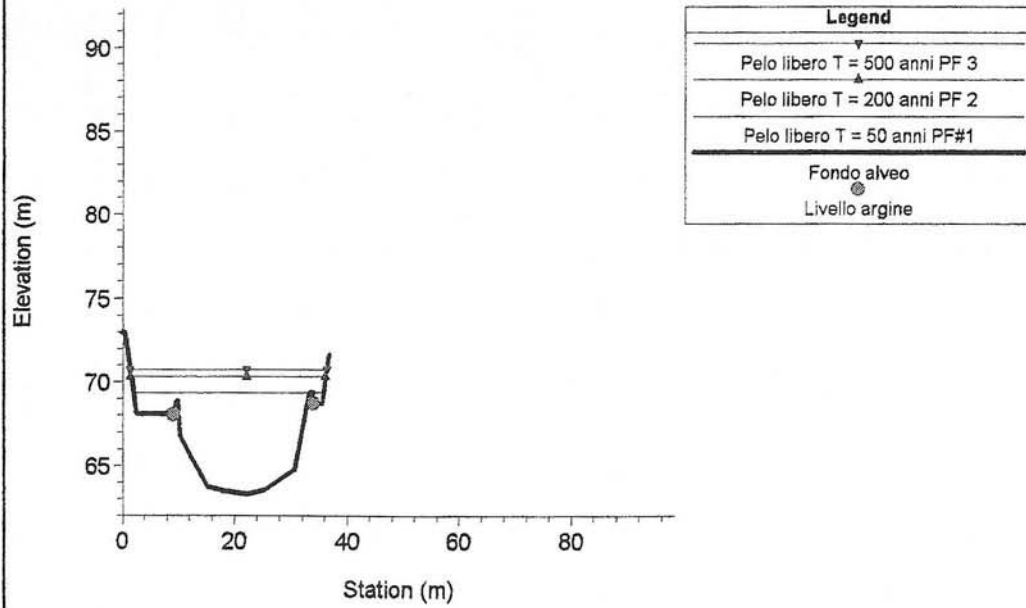


RS = 54 Torrente Letimbro

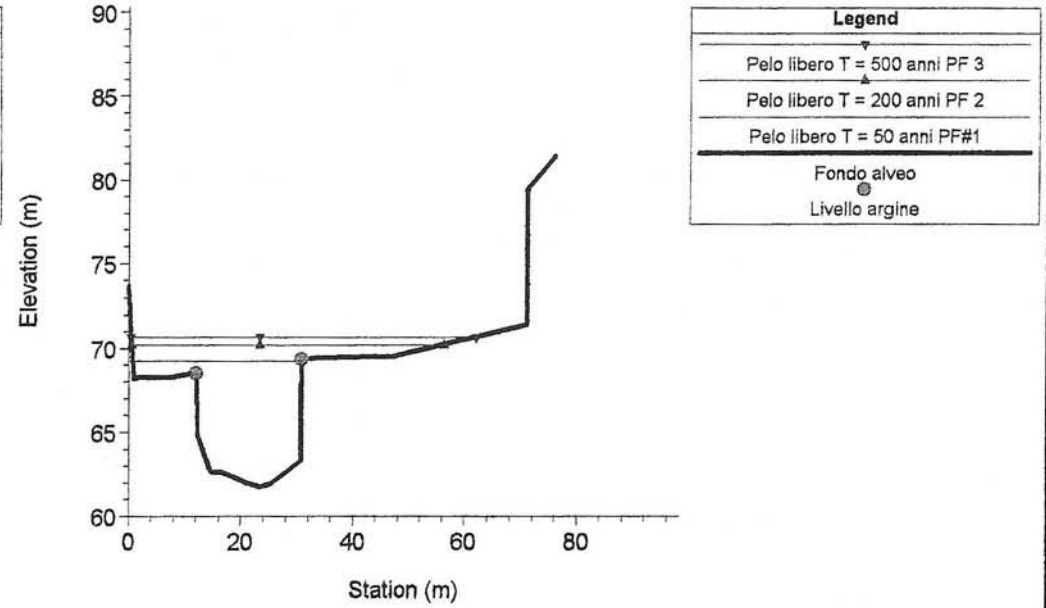


1 cm Horiz. = 15 m 1 cm Vert. = 2 m

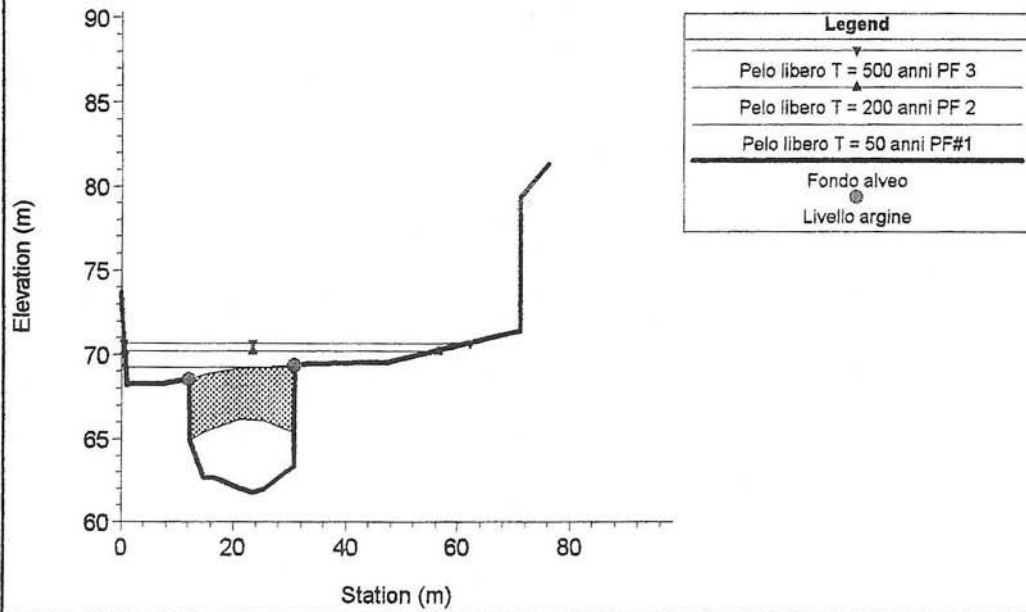
RS = 53 Torrente Letimbro



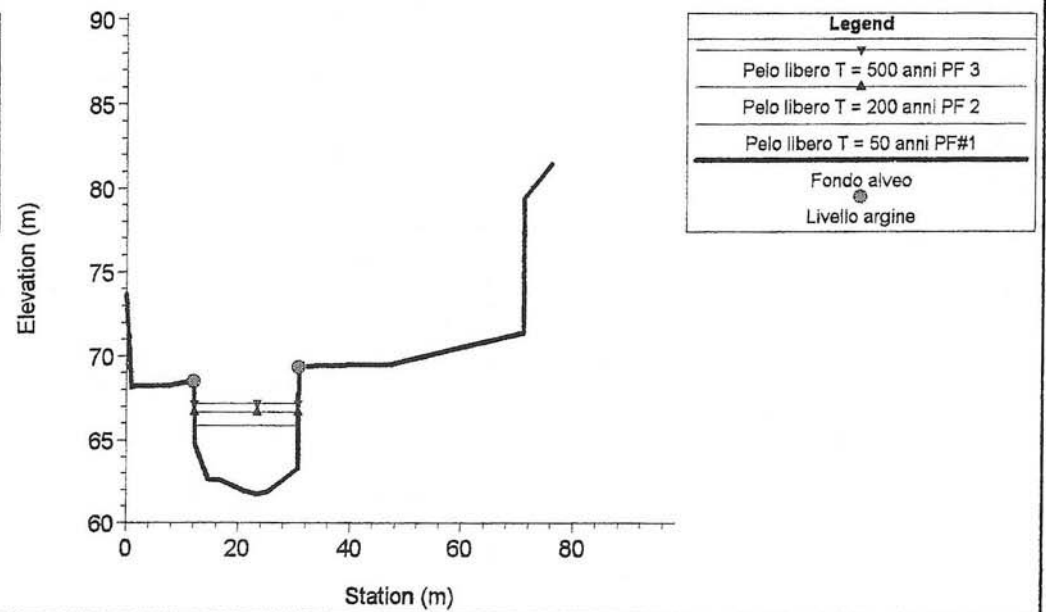
RS = 52.1 Torrente Letimbro



RS = 52.05 Torrente Letimbro

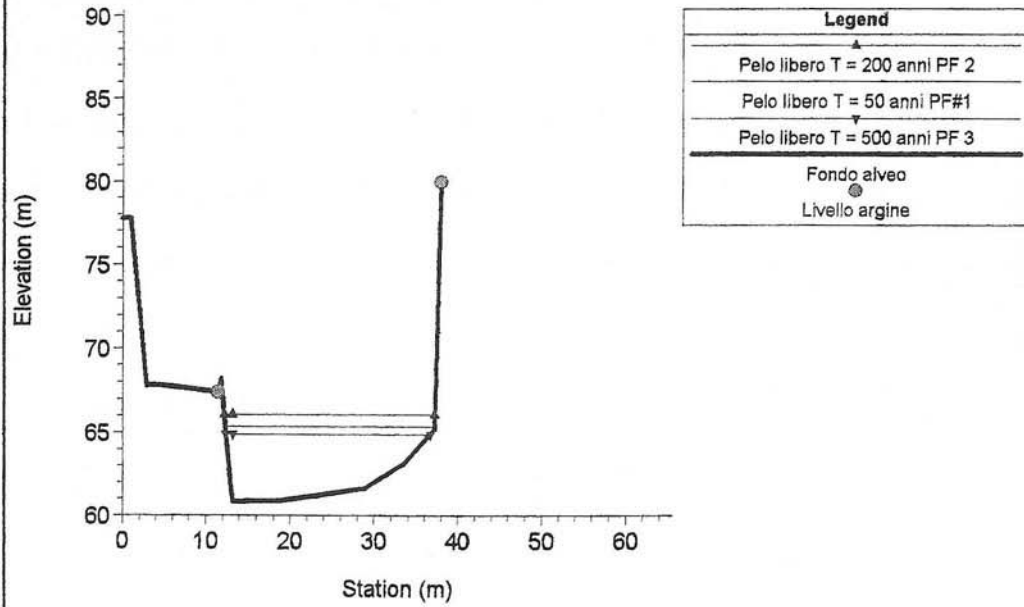


RS = 52.0 Torrente Letimbro

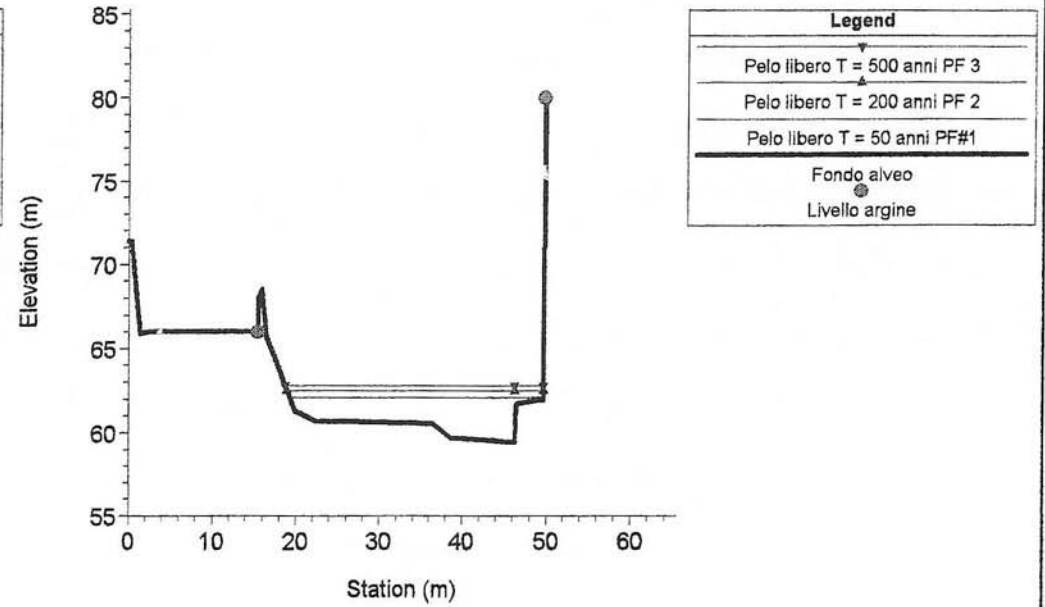


1 cm Horiz. = 15 m 1 cm Vert. = 5 m

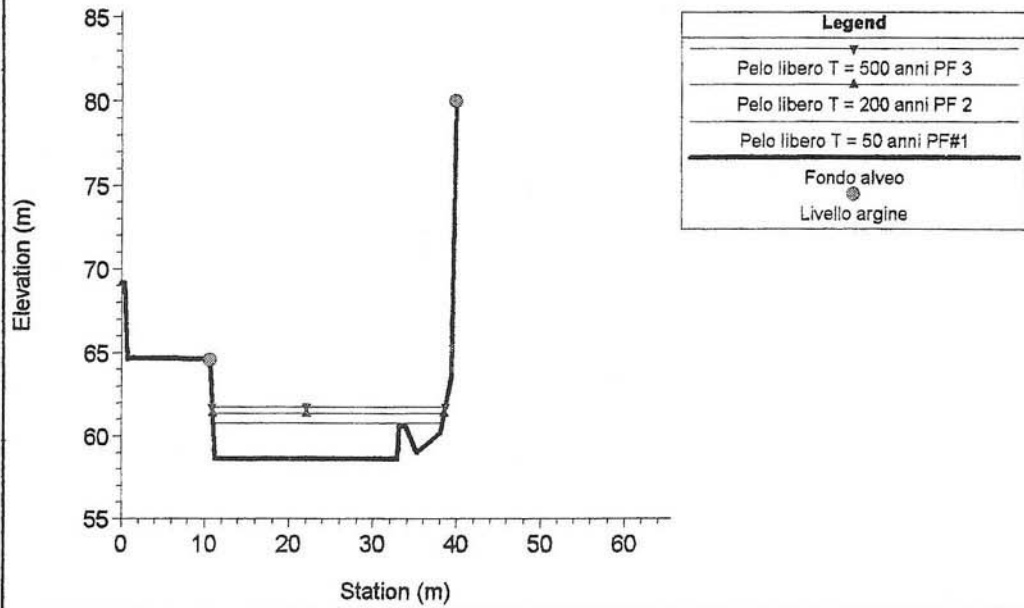
RS = 51 Torrente Letimbro



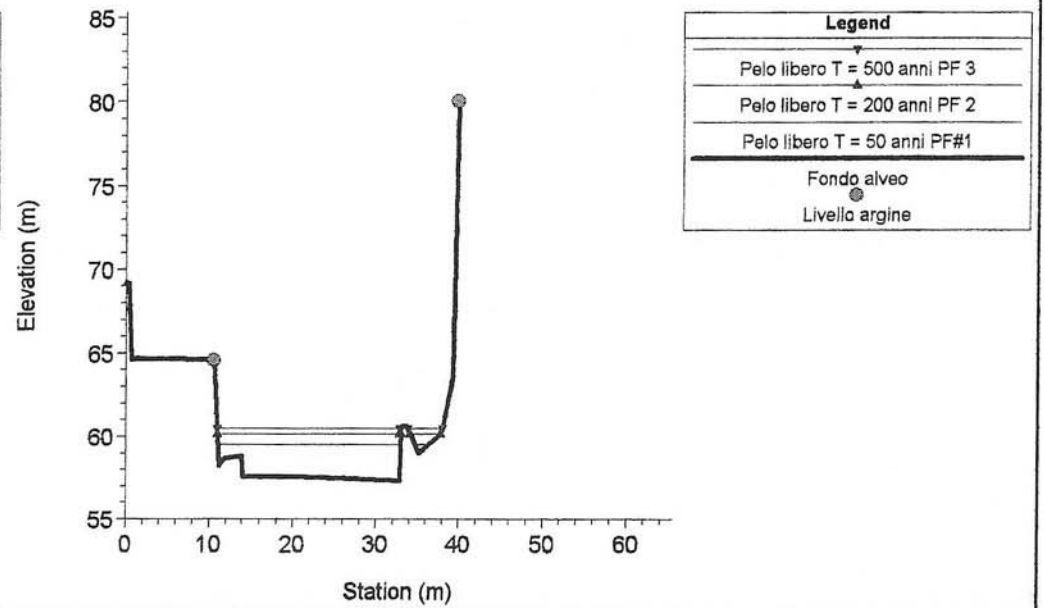
RS = 50, Torrente Letimbro



RS = 49.2 Torrente Letimbro

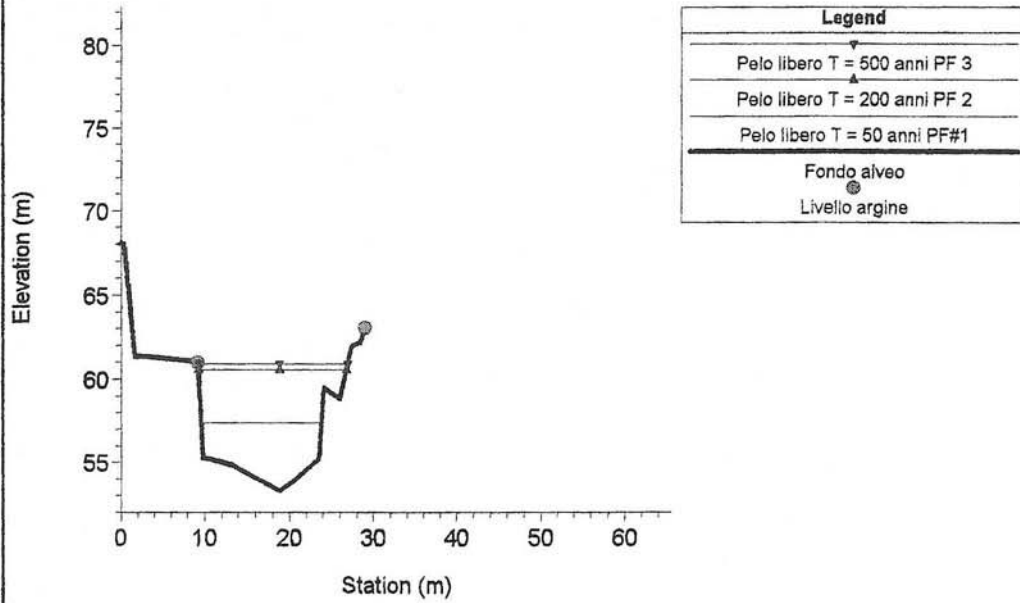


RS = 49 Torrente Letimbro

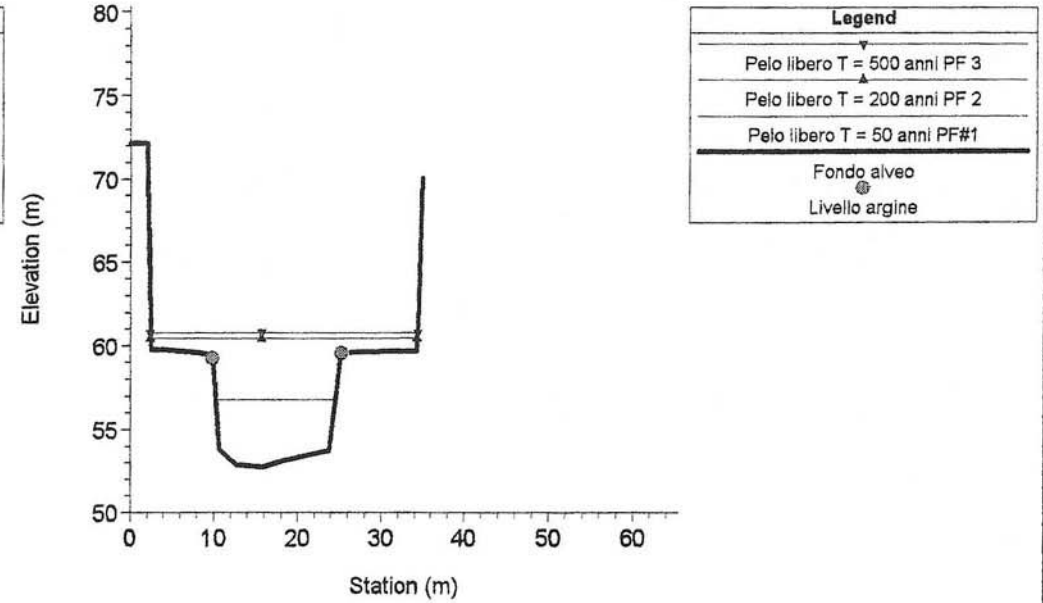


1 cm Horiz. = 10 m 1 cm Vert. = 5 m

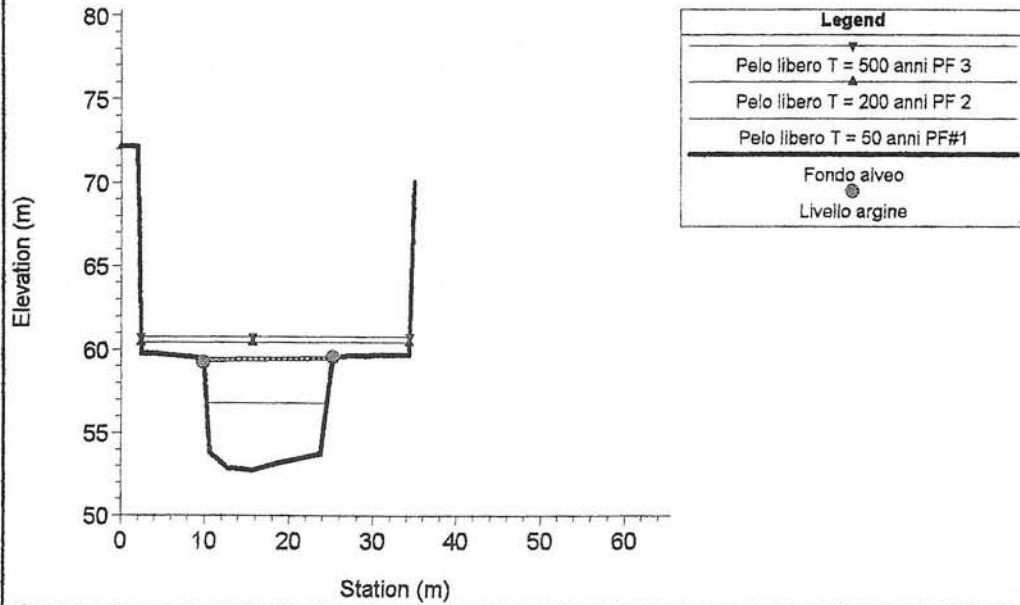
RS = 48 Torrente Letimbro



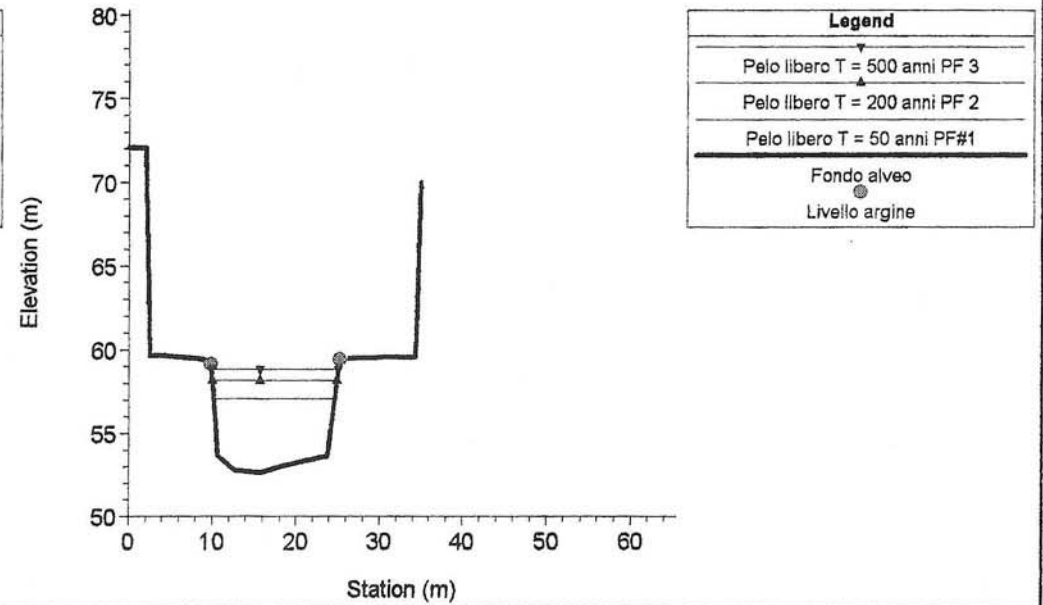
RS = 47.1 Torrente Letimbro



RS = 47.05 Torrente Letimbro

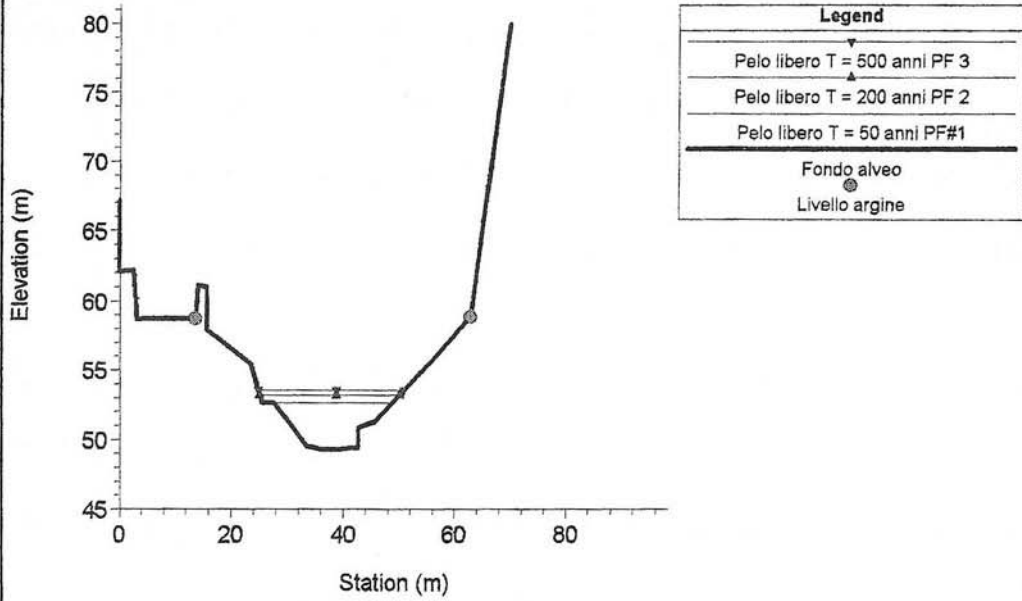


RS = 47.0 Torrente Letimbro

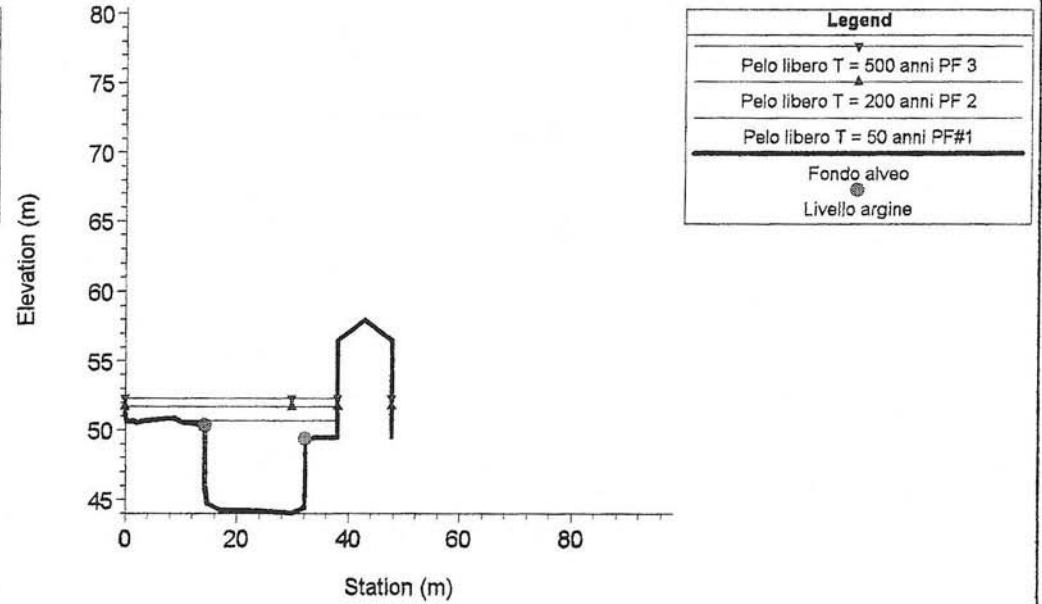


1 cm Horiz. = 10 m 1 cm Vert. = 5 m

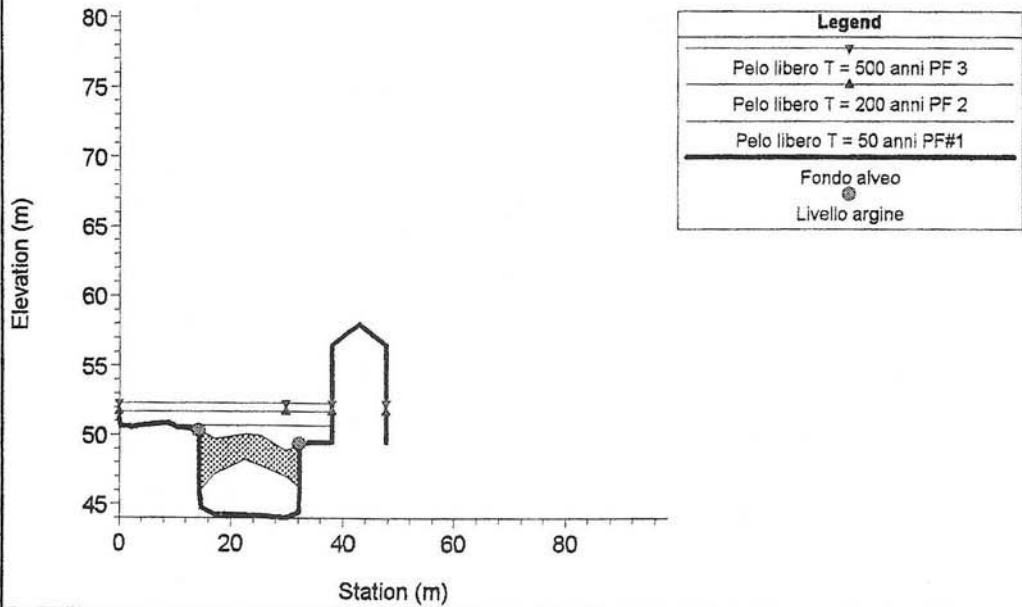
RS = 46 Torrente Letimbro



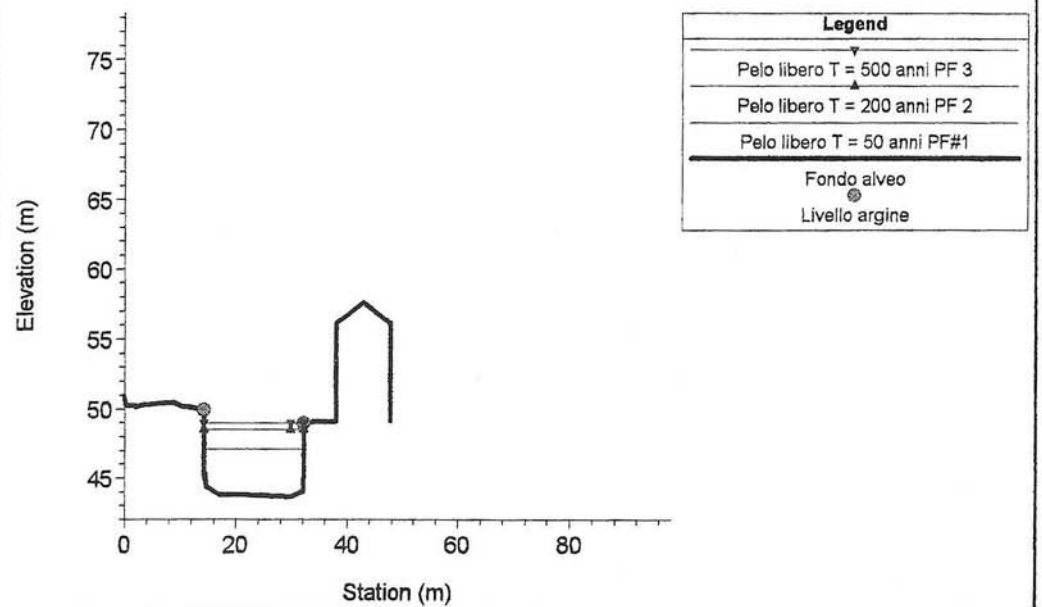
RS = 45.1 Torrente Letimbro



RS = 45.05 Torrente Letimbro

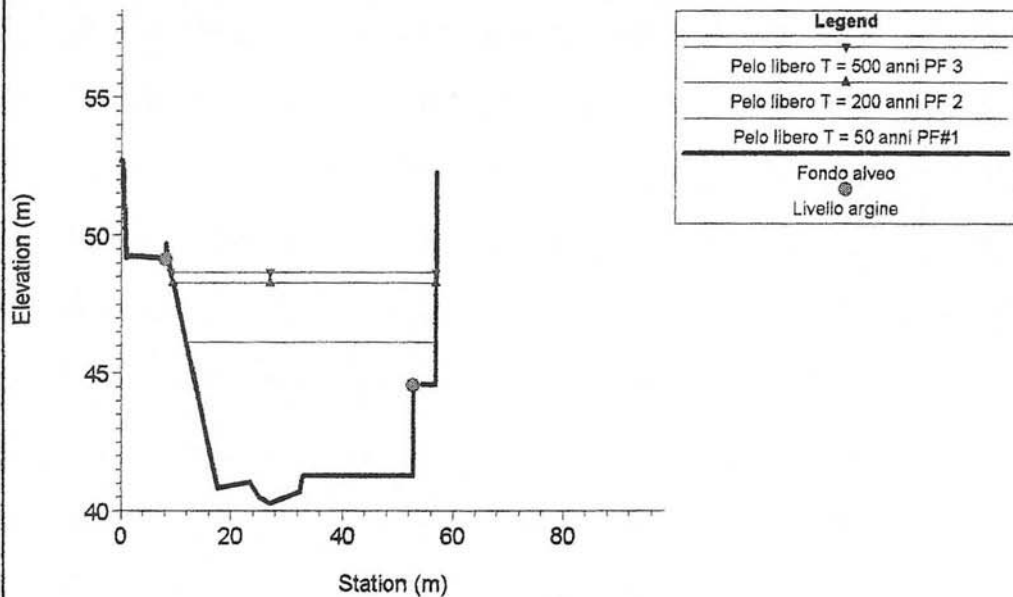


RS = 45.0 Torrente Letimbro

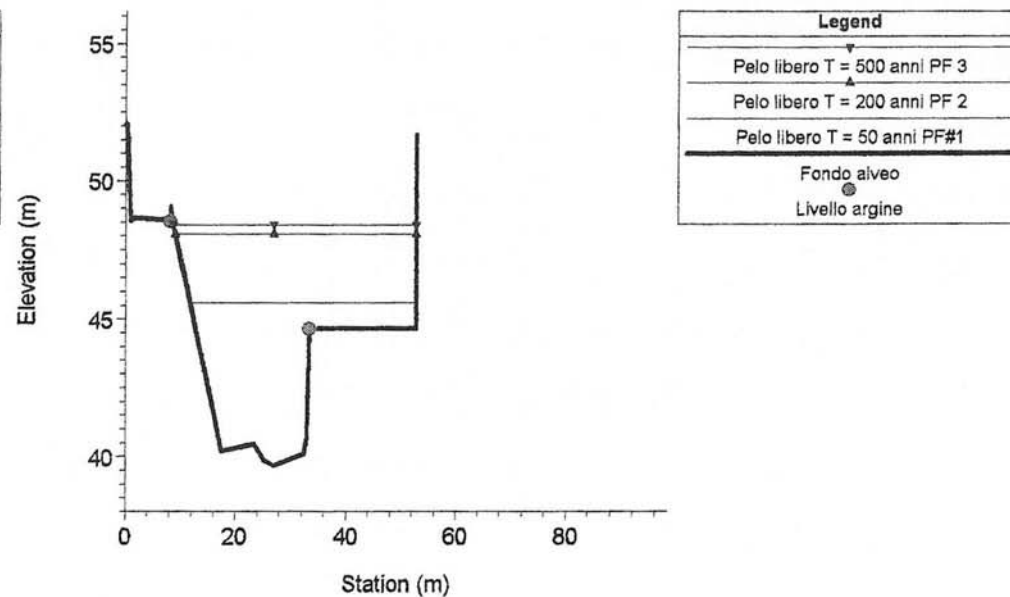


1 cm Horiz. = 15 m 1 cm Vert. = 6 m

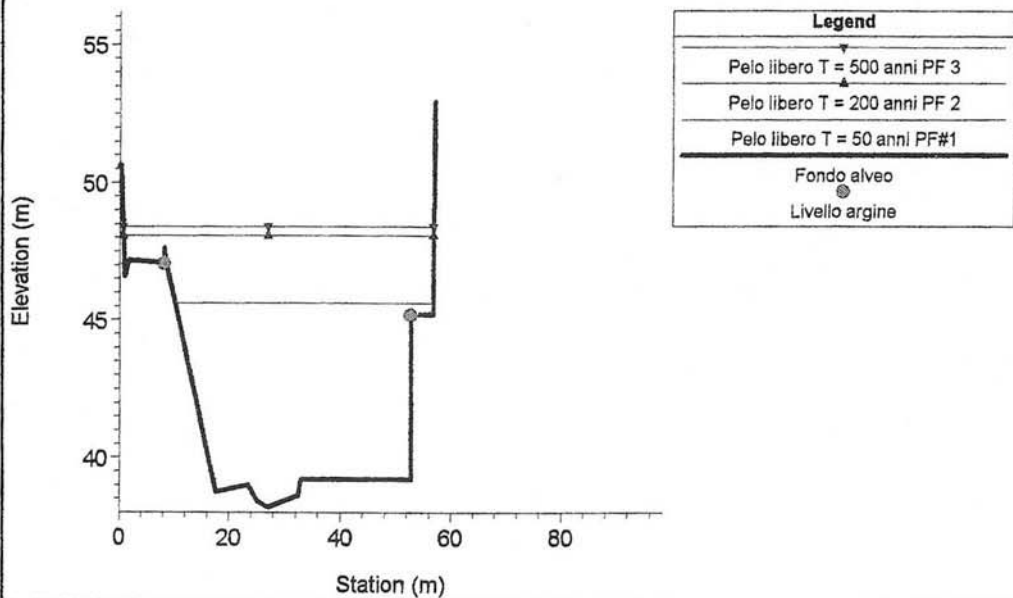
RS = 44 Torrente Letimbro



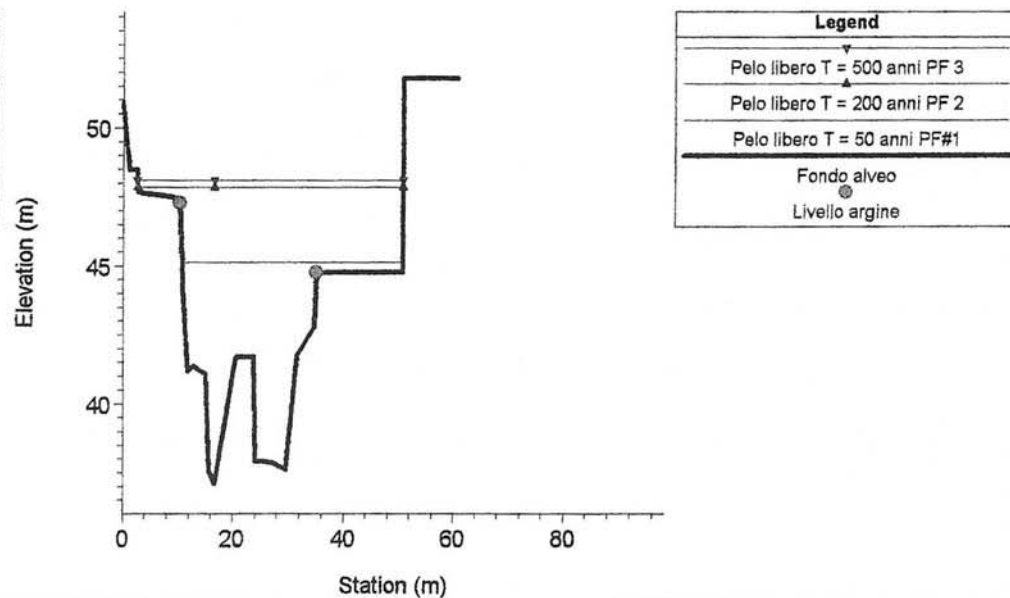
RS = 43 Torrente Letimbro



RS = 42 Torrente Letimbro

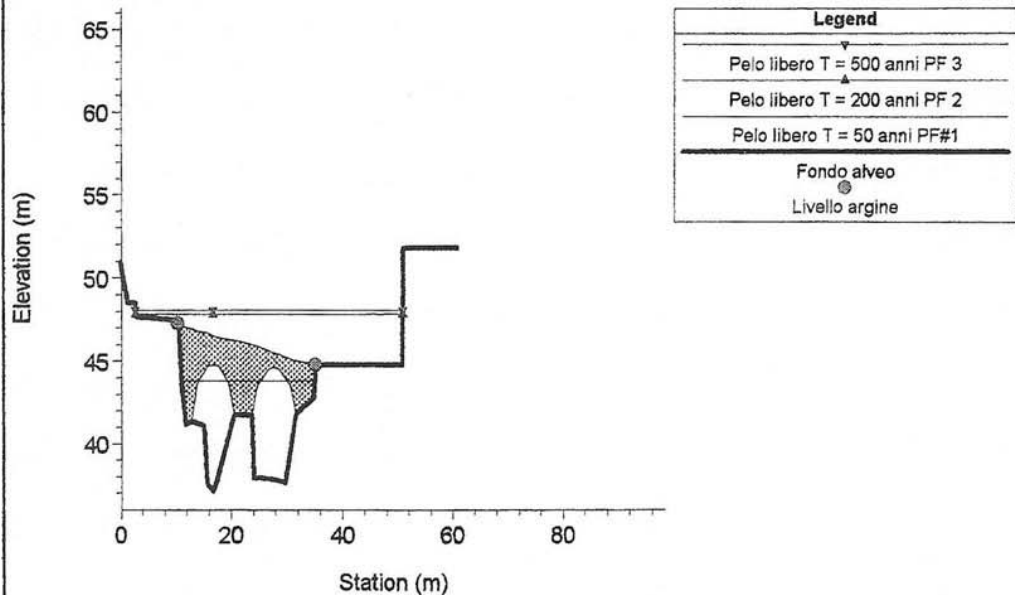


RS = 41.1 Torrente Letimbro

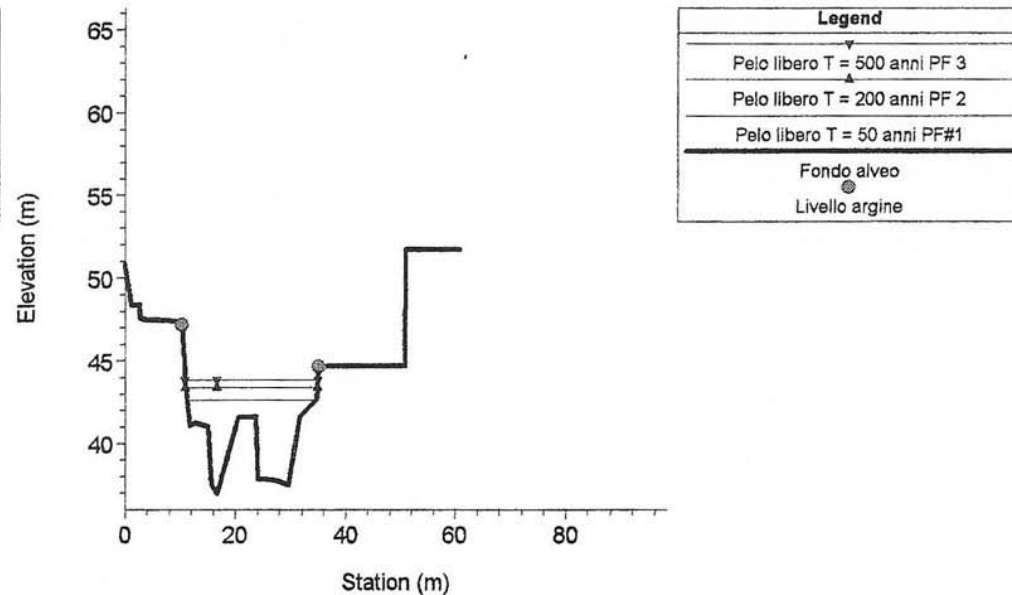


1 cm Horiz. = 15 m 1 cm Vert. = 3 m

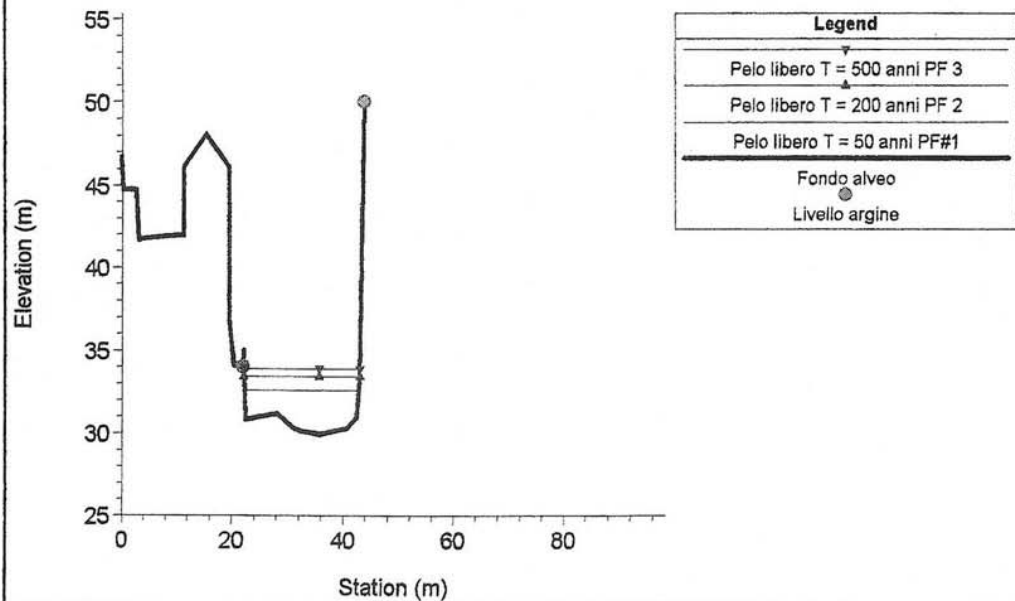
RS = 41.05 Torrente Letimbro



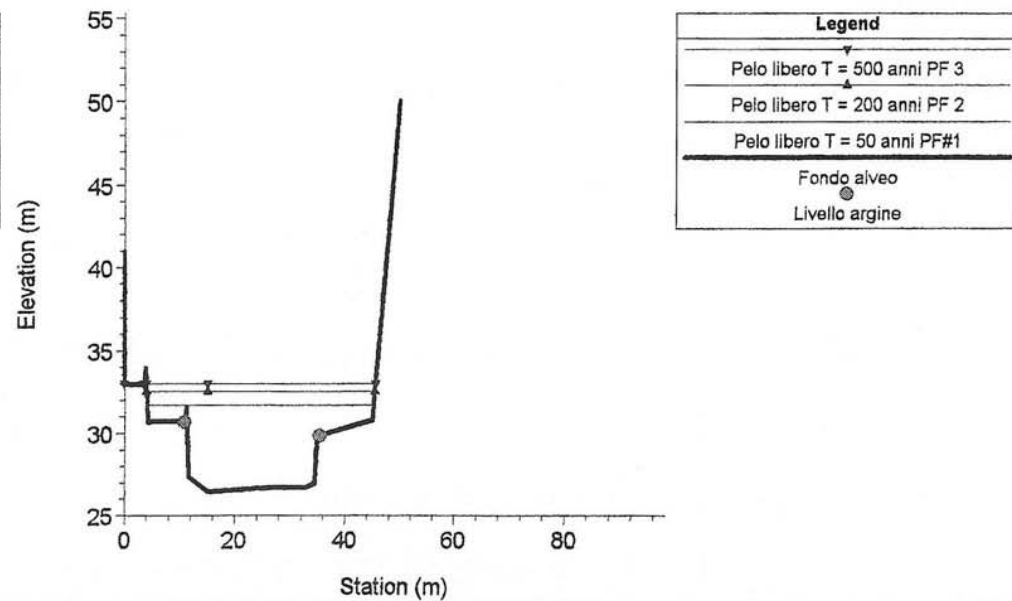
RS = 41.0 Torrente Letimbro



RS = 40 Torrente Letimbro

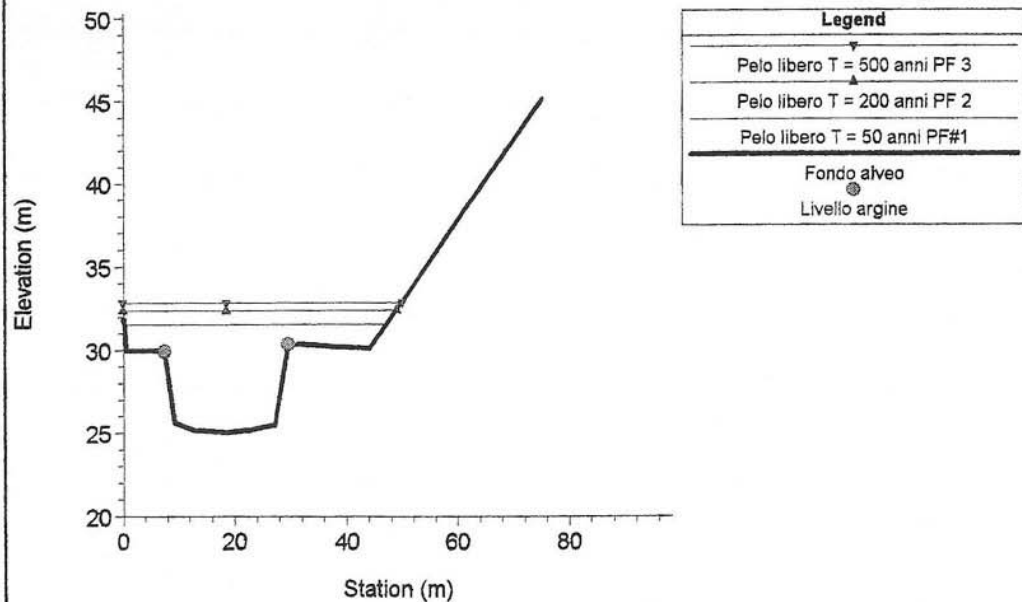


RS = 39 Torrente Letimbro

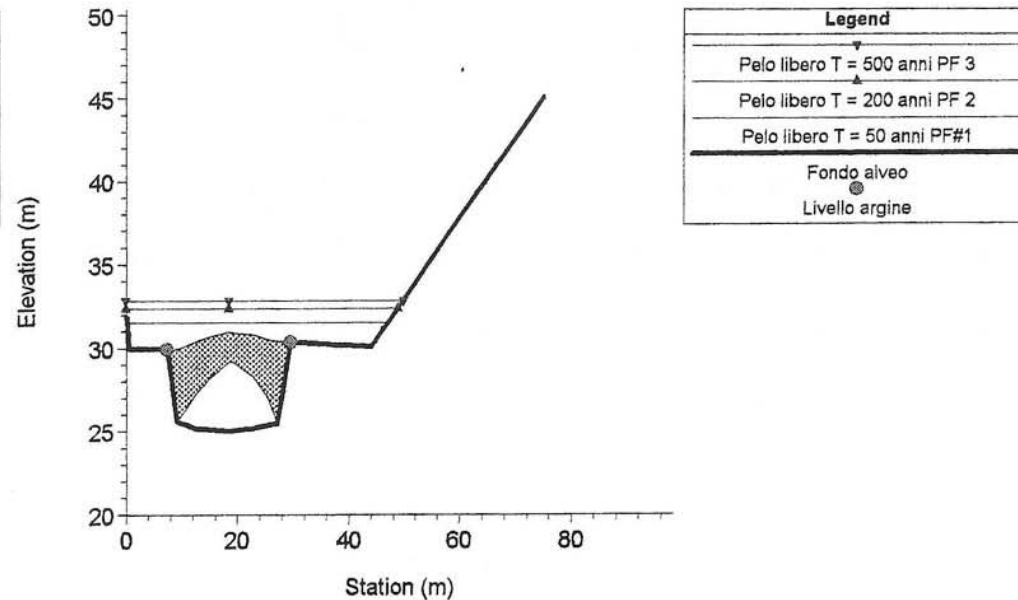


1 cm Horiz. = 15 m 1 cm Vert. = 5 m

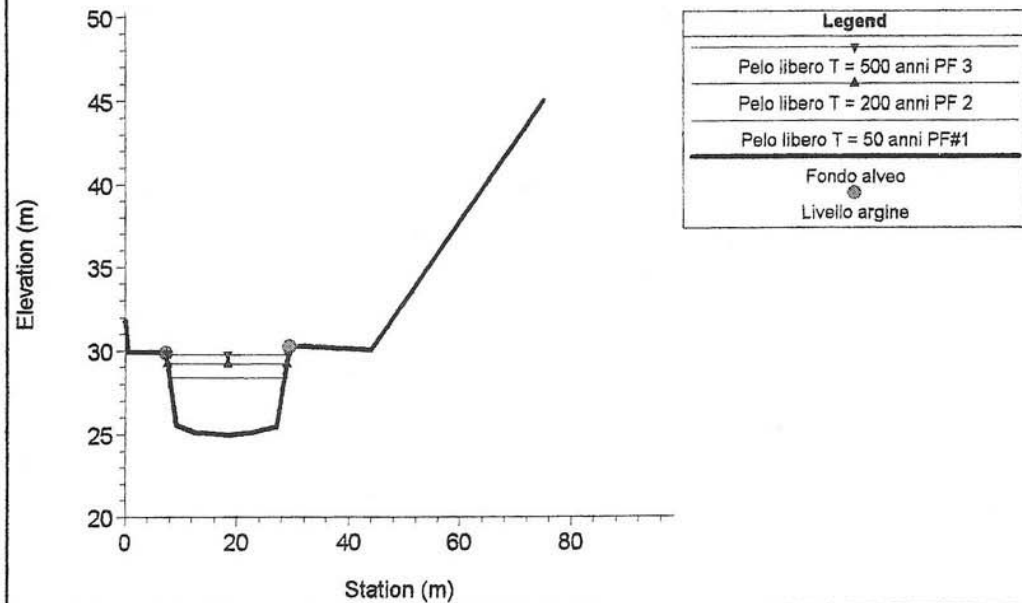
RS = 38.1 Torrente Letimbro



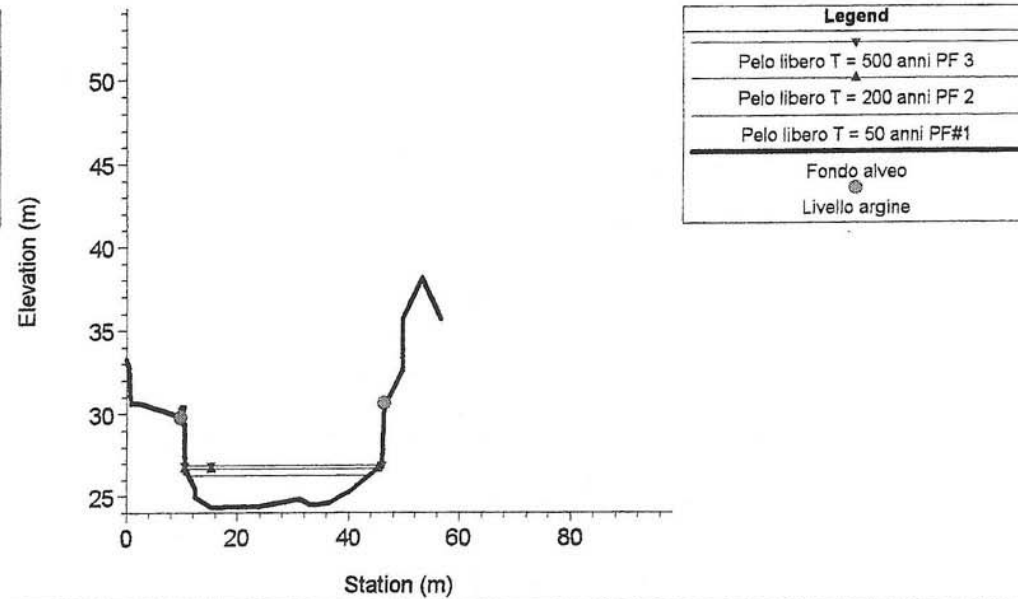
RS = 38.05 Torrente Letimbro



RS = 38.0 Torrente Letimbro

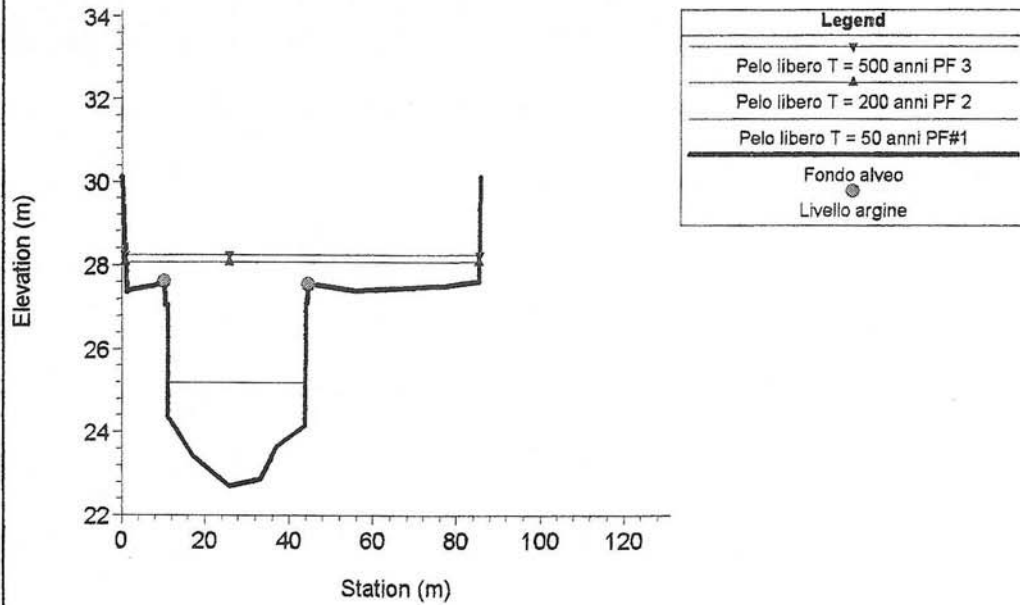


RS = 37 Torrente Letimbro

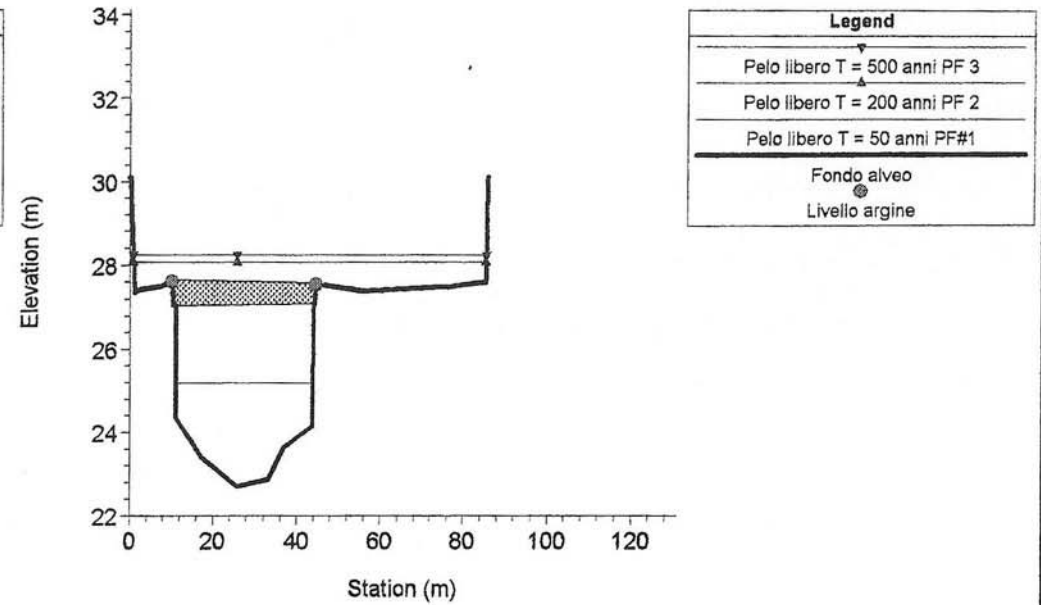


1 cm Horiz. = 15 m 1 cm Vert. = 5 m

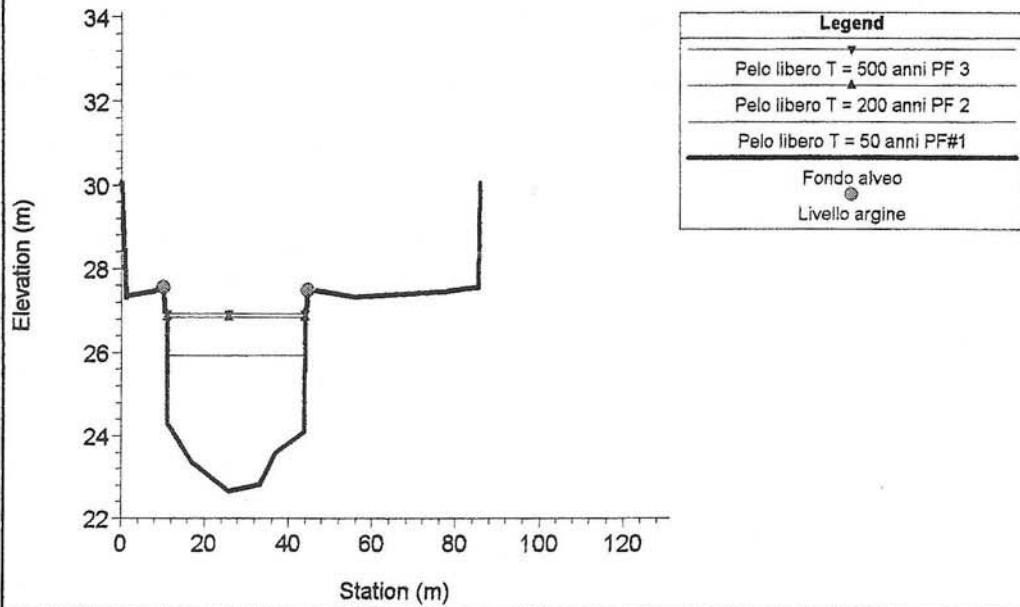
RS = 36.1 Torrente Letimbro



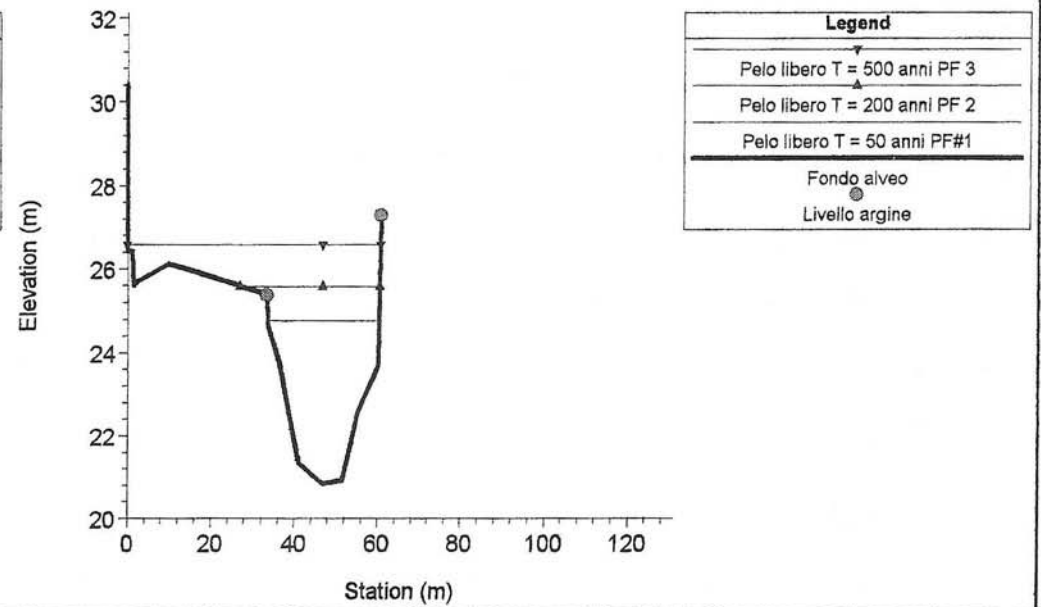
RS = 36.05 Torrente Letimbro



RS = 36.0 Torrente Letimbro

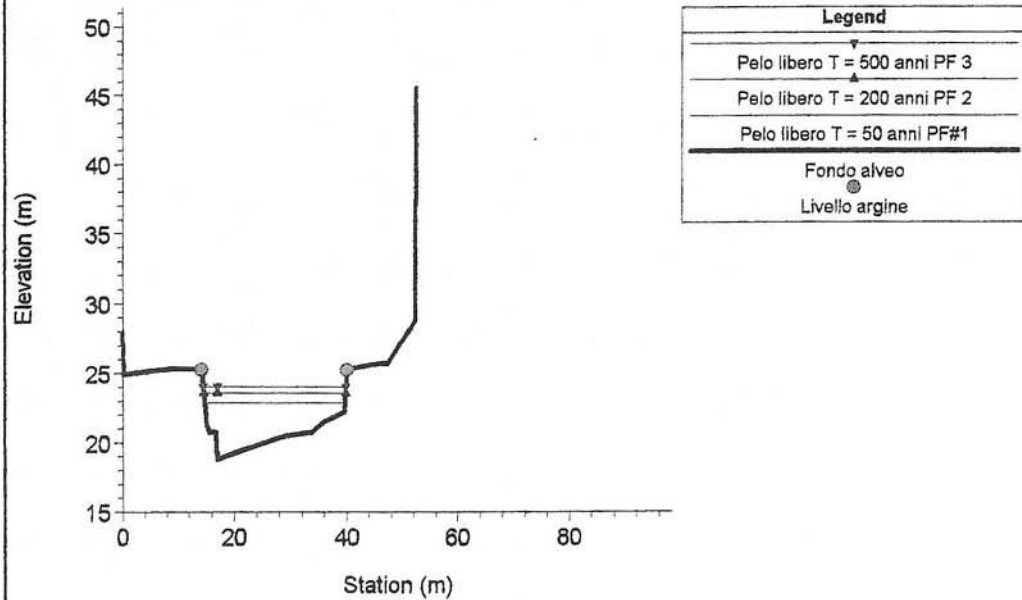


RS = 35 Torrente Letimbro

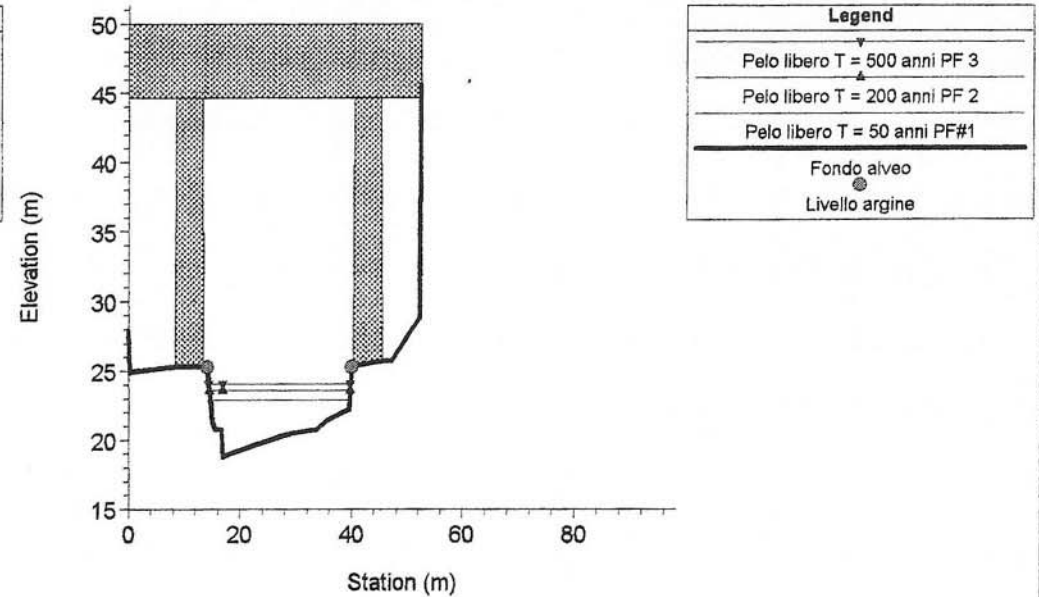


1 cm Horiz. = 20 m 1 cm Vert. = 2 m

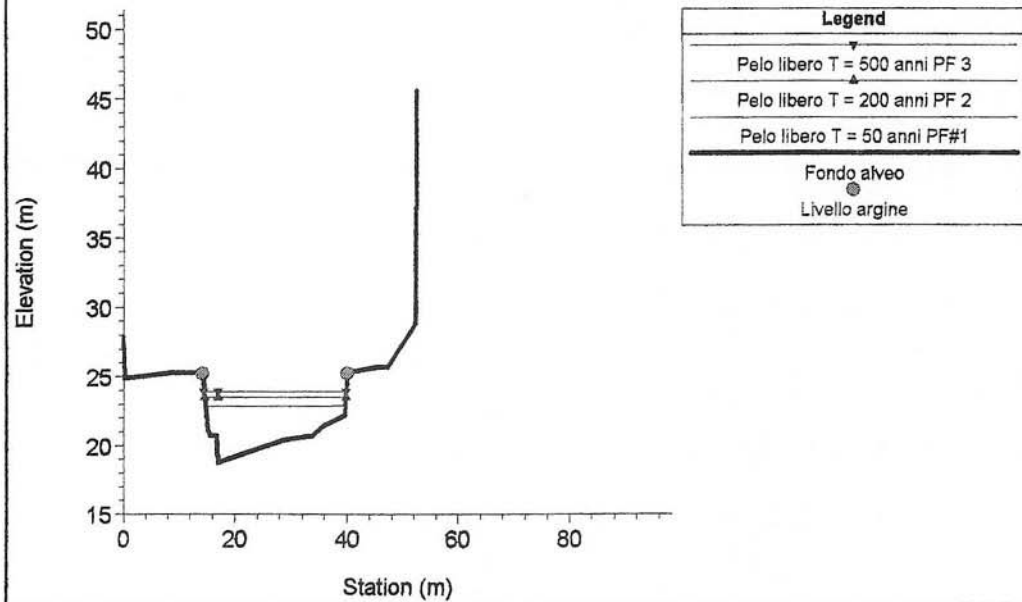
RS = 34.1 Torrente Letimbro



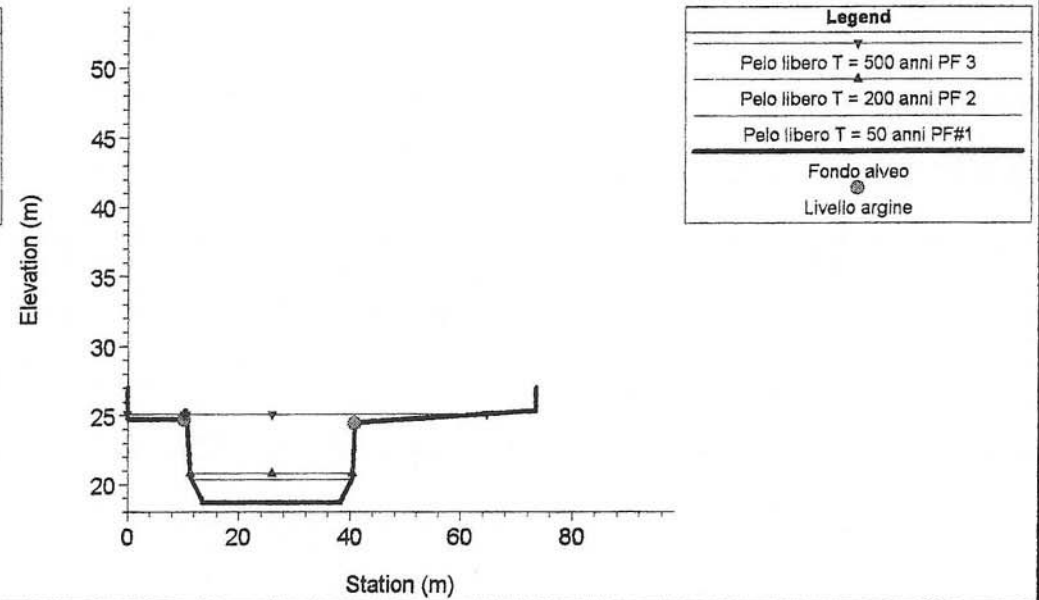
RS = 34.05 Torrente Letimbro



RS = 34.0 Torrente Letimbro

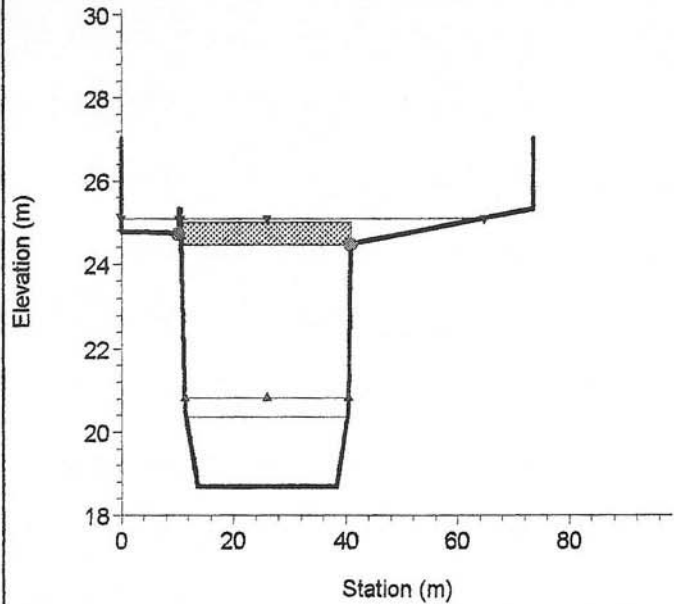


RS = 33.1 Torrente Letimbro



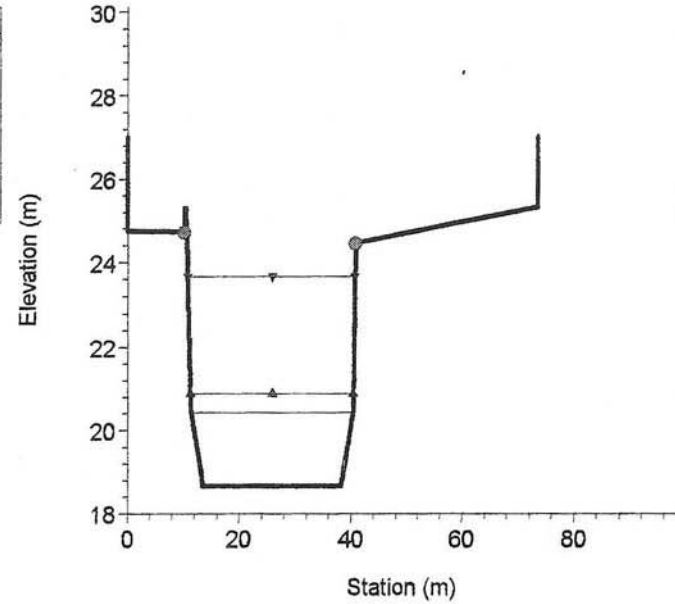
1 cm Horiz. = 15 m 1 cm Vert. = 6 m

RS = 33.05 Torrente Letimbro



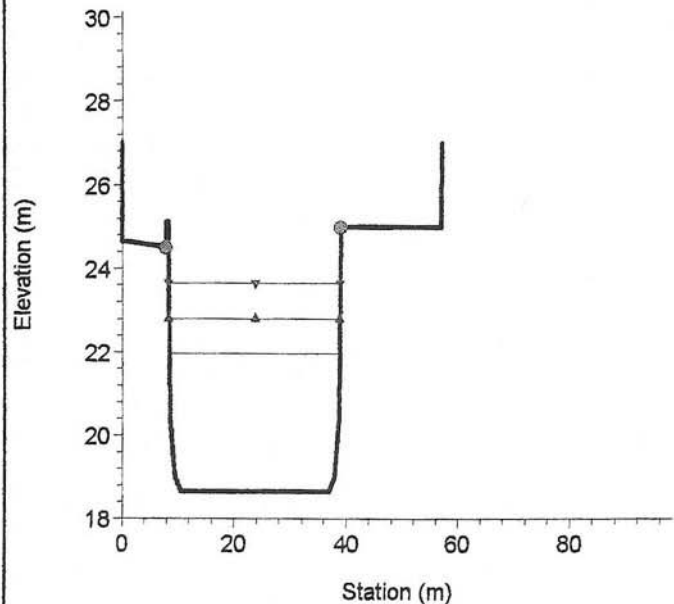
Legend	
▽	Pelo libero T = 500 anni PF 3
▲	Pelo libero T = 200 anni PF 2
—	Pelo libero T = 50 anni PF#1
●	Fondo alveo
○	Livello argine

RS = 33.0 Torrente Letimbro



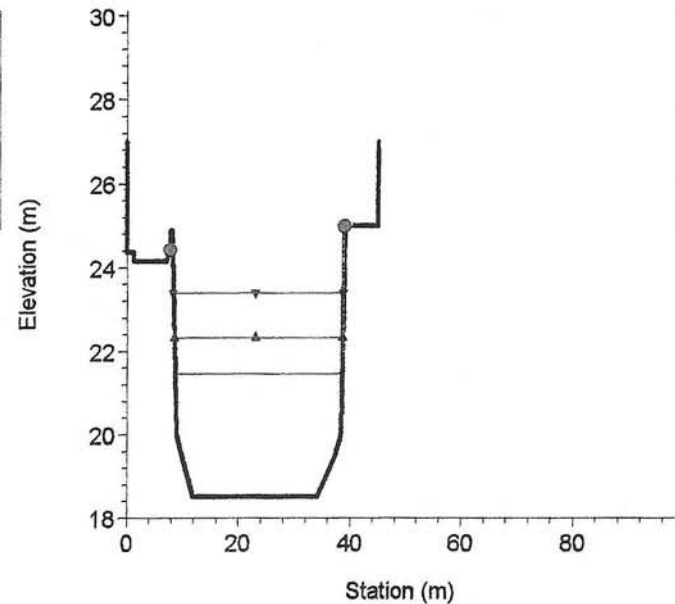
Legend	
▽	Pelo libero T = 500 anni PF 3
▲	Pelo libero T = 200 anni PF 2
—	Pelo libero T = 50 anni PF#1
●	Fondo alveo
○	Livello argine

RS = 32 Torrente Letimbro



Legend	
▽	Pelo libero T = 500 anni PF 3
▲	Pelo libero T = 200 anni PF 2
—	Pelo libero T = 50 anni PF#1
●	Fondo alveo
○	Livello argine

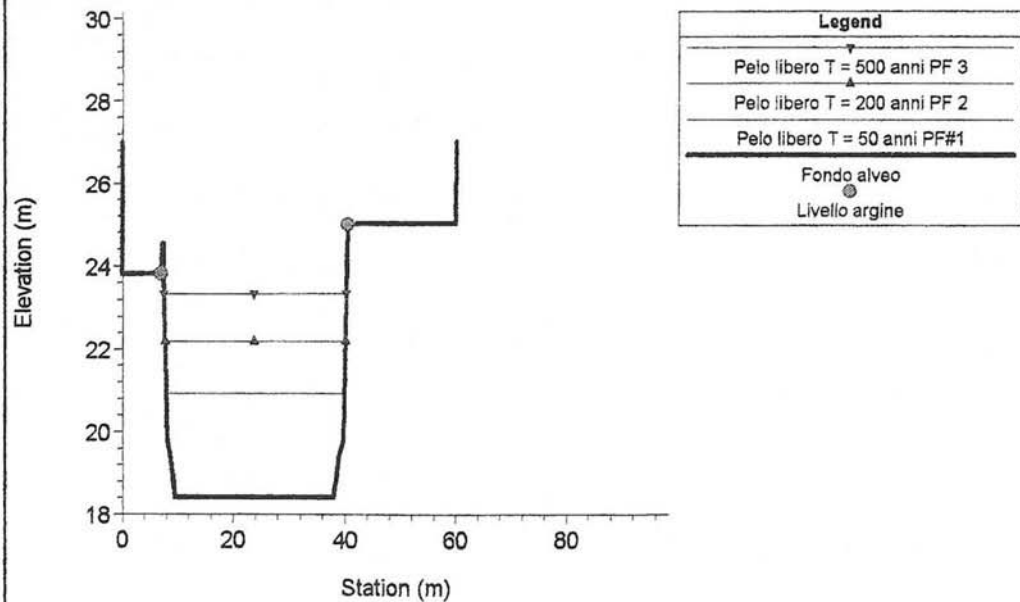
RS = 31 Torrente Letimbro



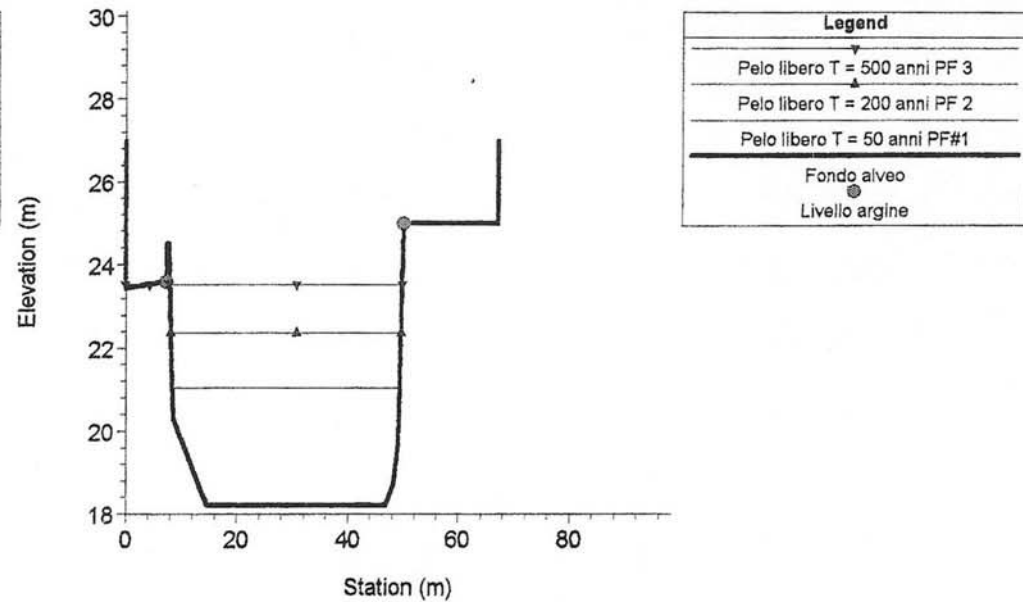
Legend	
▽	Pelo libero T = 500 anni PF 3
▲	Pelo libero T = 200 anni PF 2
—	Pelo libero T = 50 anni PF#1
●	Fondo alveo
○	Livello argine

1 cm Horiz. = 15 m 1 cm Vert. = 2 m

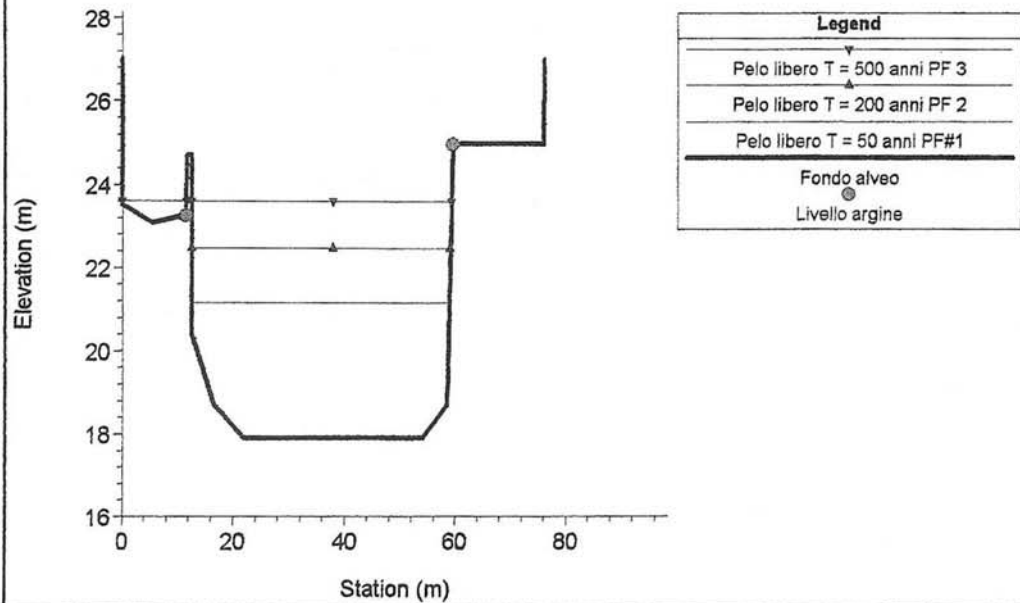
RS = 30 Torrente Letimbro



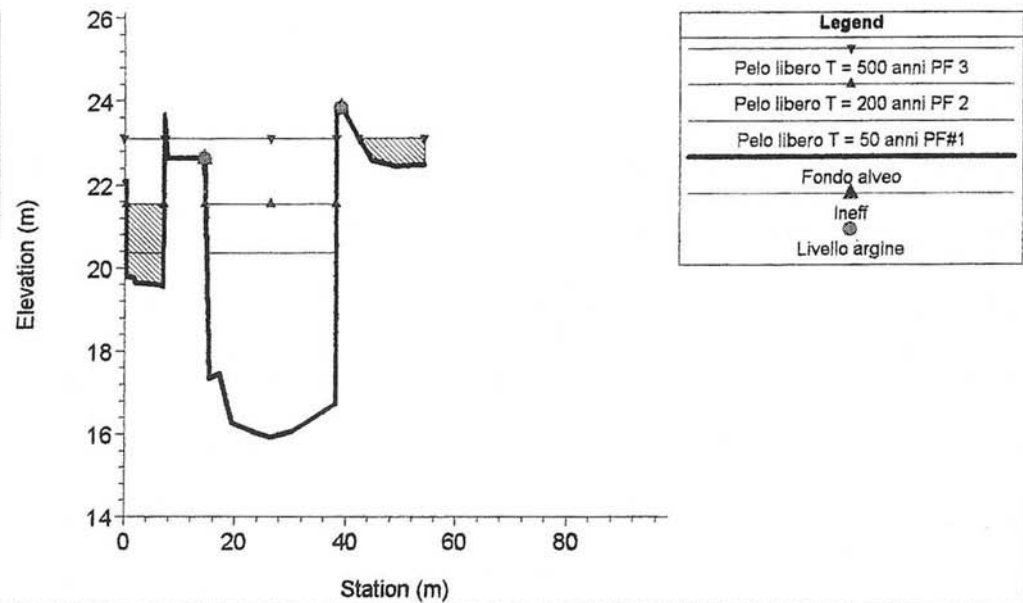
RS = 29 Torrente Letimbro



RS = 28 Torrente Letimbro

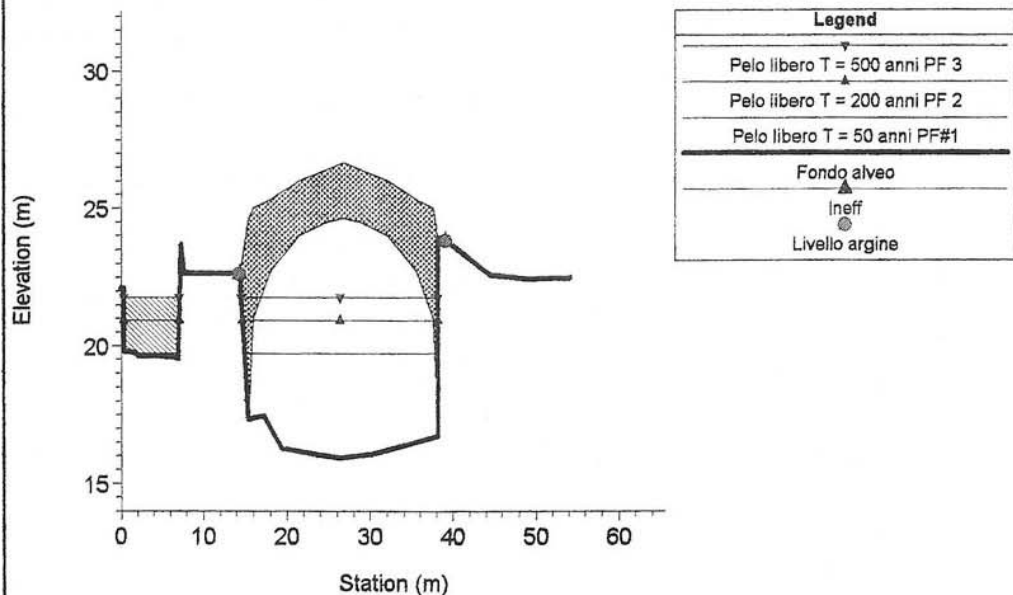


RS = 27.1 Torrente Letimbro

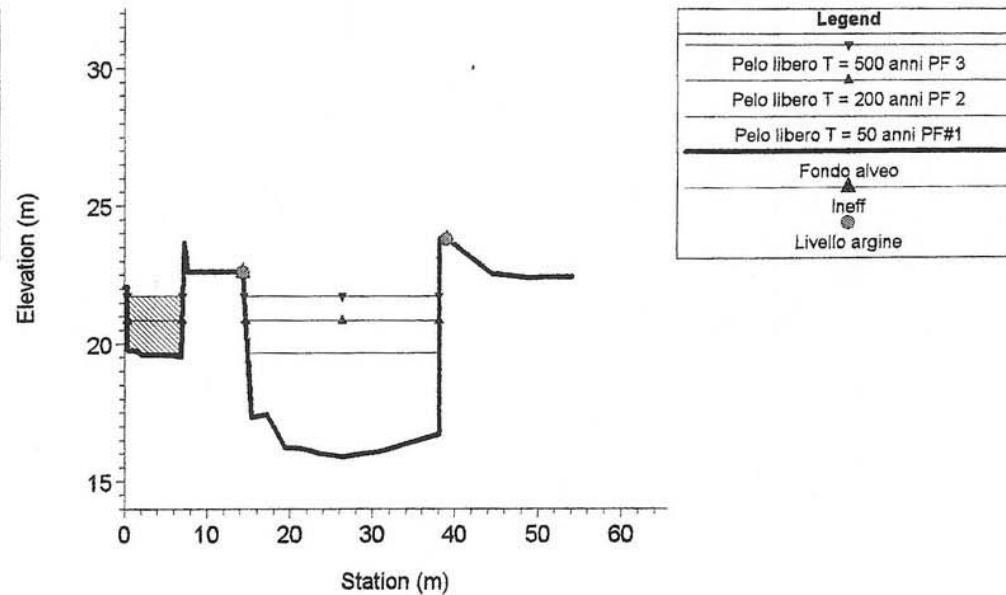


1 cm Horiz. = 15 m 1 cm Vert. = 2 m

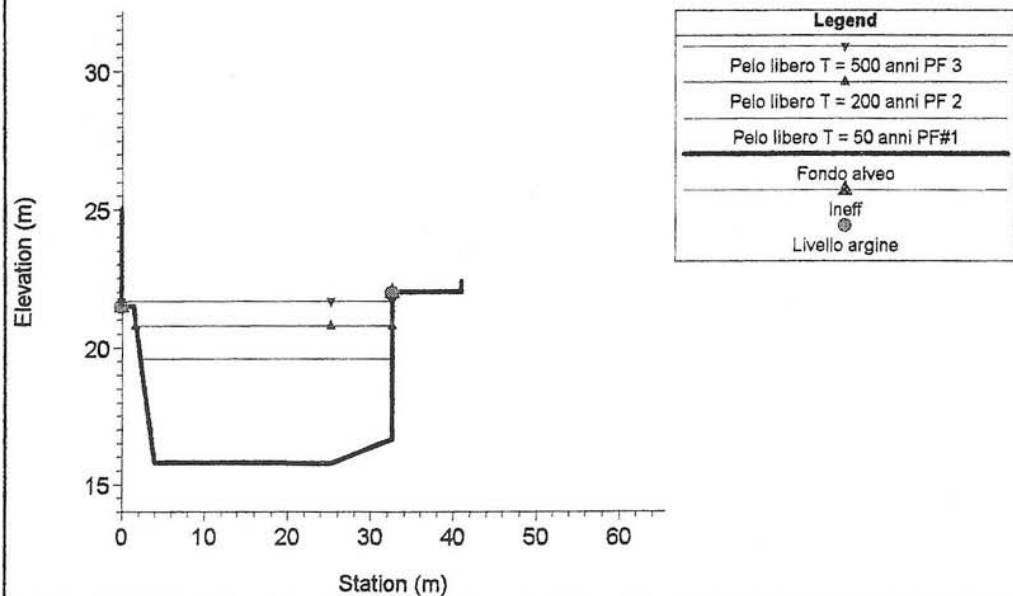
RS = 27.05 Torrente Letimbro



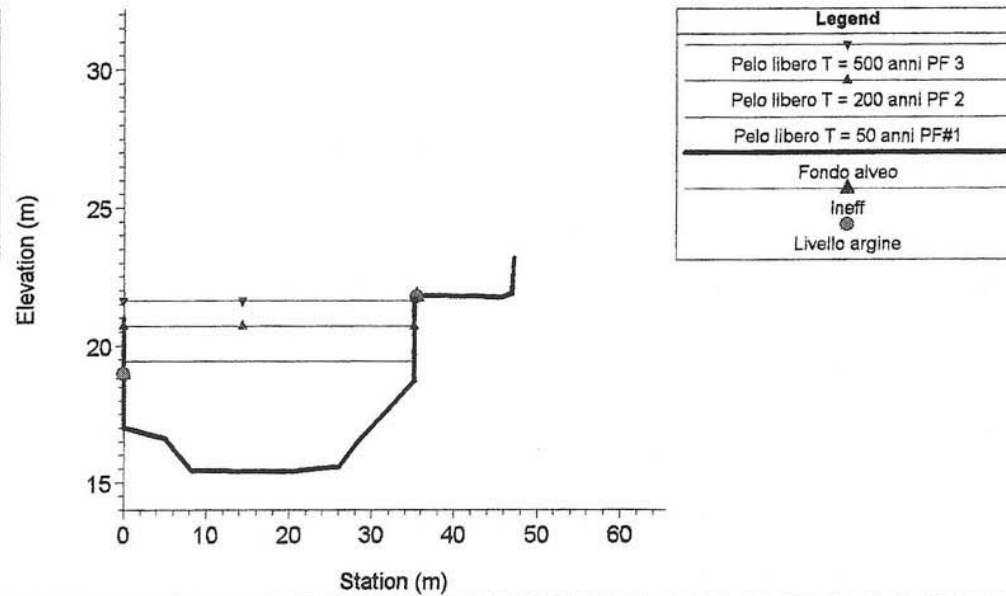
RS = 27.0 Torrente Letimbro



RS = 26 Torrente Letimbro

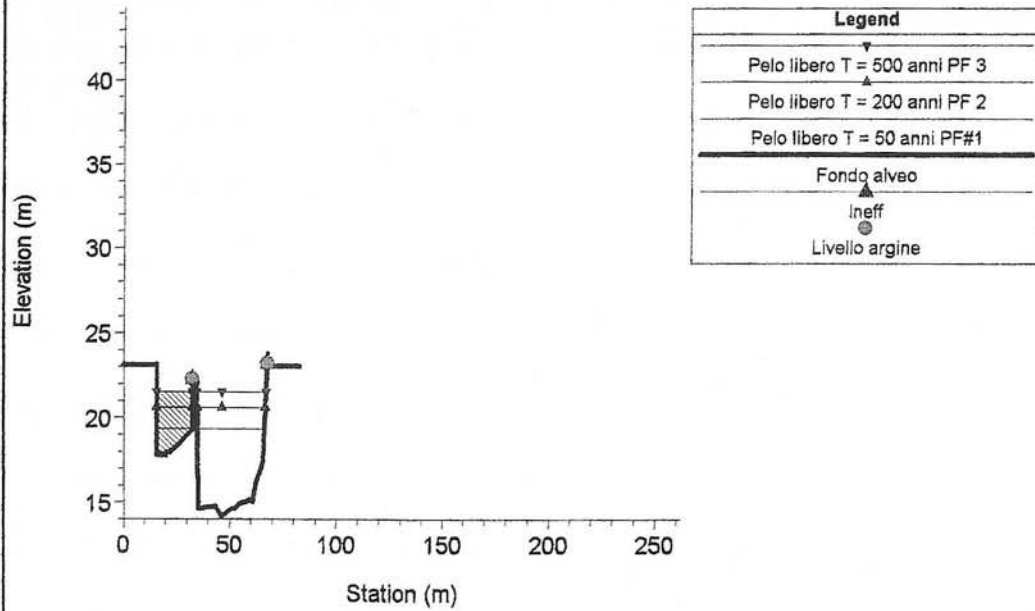


RS = 25 Torrente Letimbro

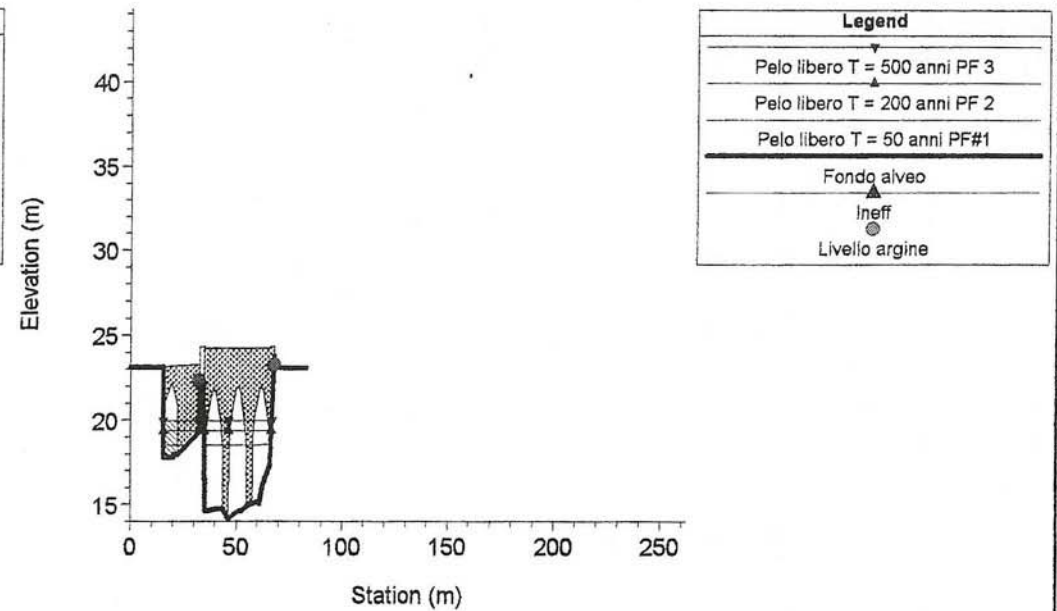


1 cm Horiz. = 10 m 1 cm Vert. = 3 m

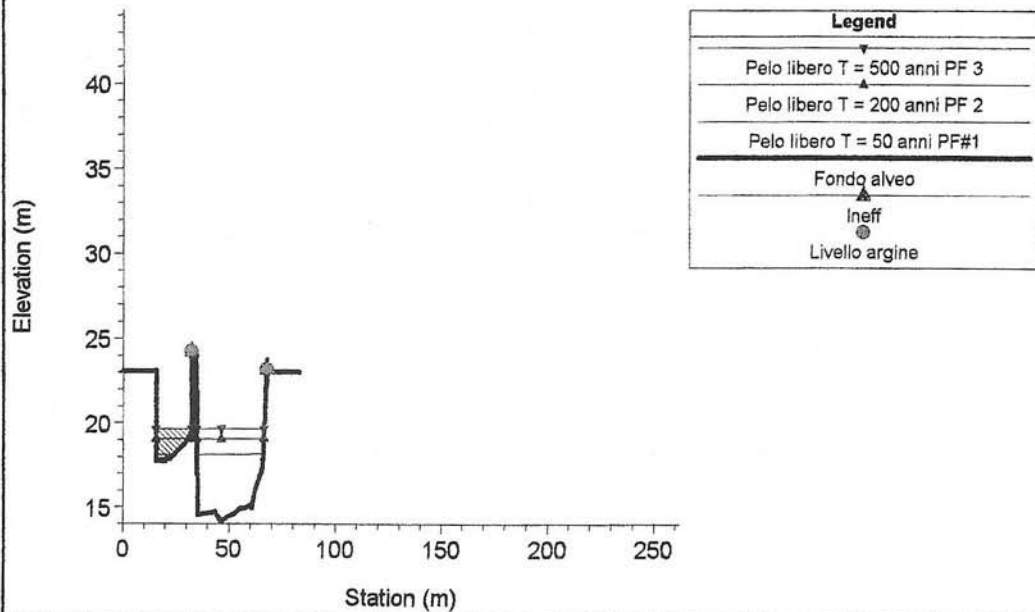
RS = 24.1 Torrente Letimbro



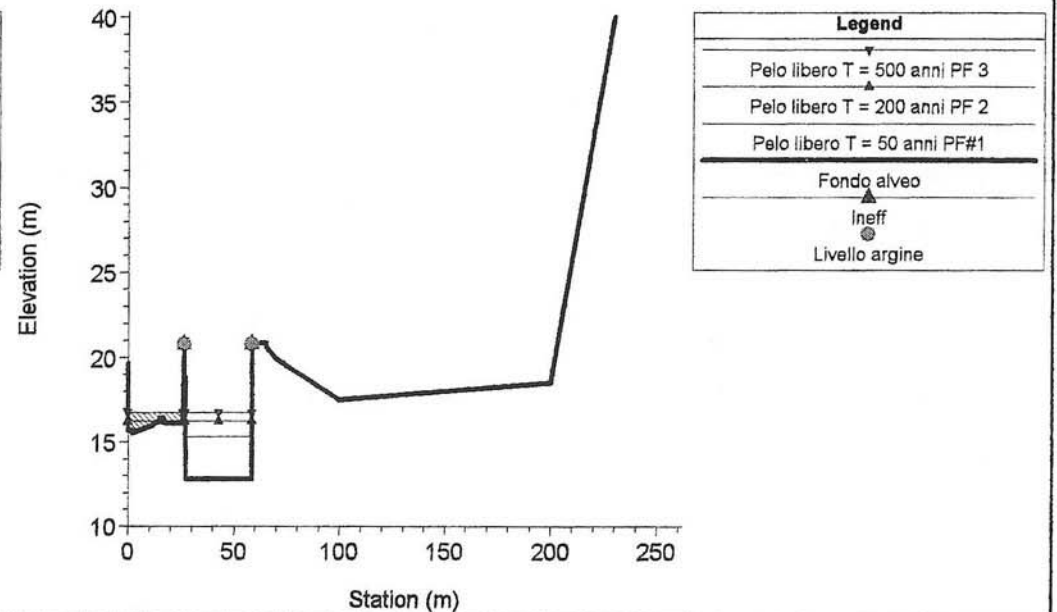
RS = 24.05 Torrente Letimbro



RS = 24.0 Torrente Letimbro

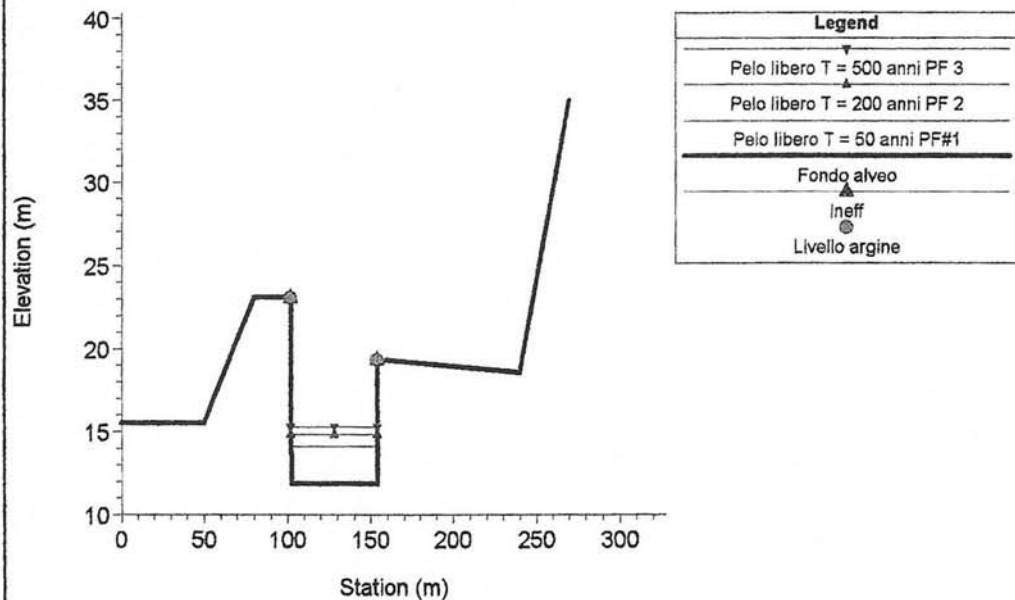


RS = 23 Torrente Letimbro

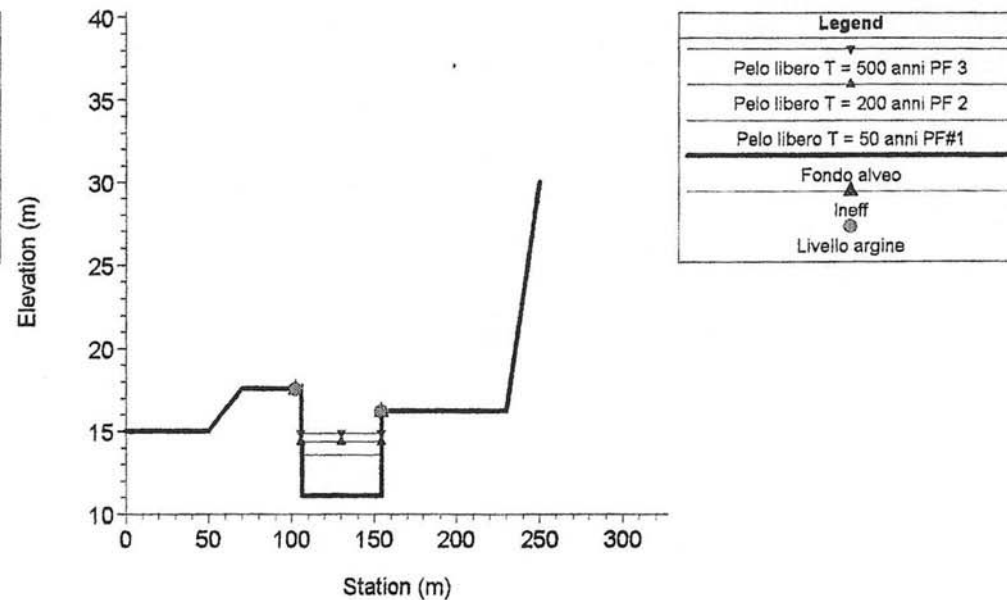


1 cm Horiz. = 40 m 1 cm Vert. = 5 m

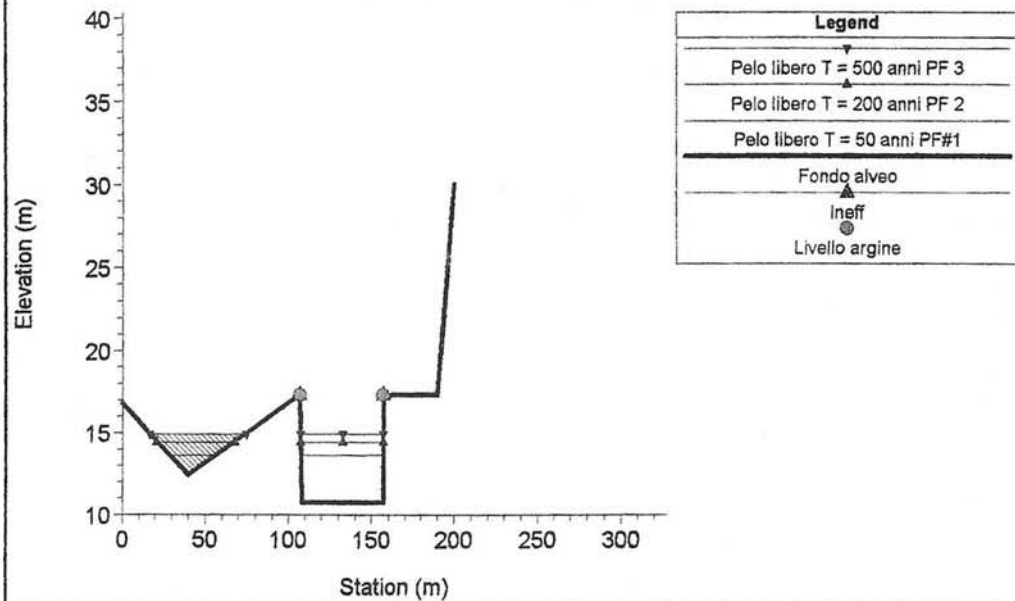
RS = 22 Torrente Letimbro



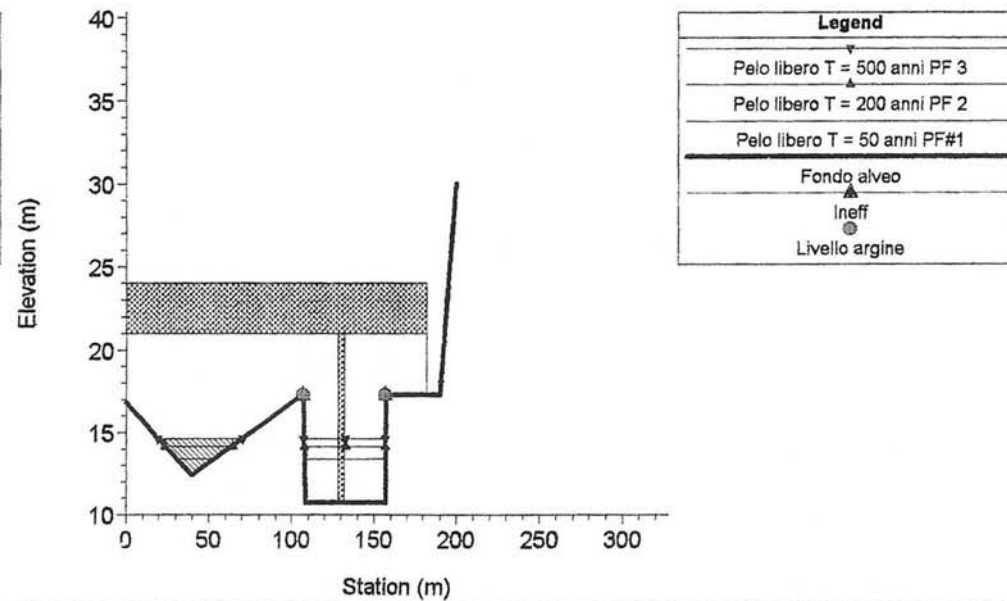
RS = 21 Torrente Letimbro



RS = 20.1 Torrente Letimbro

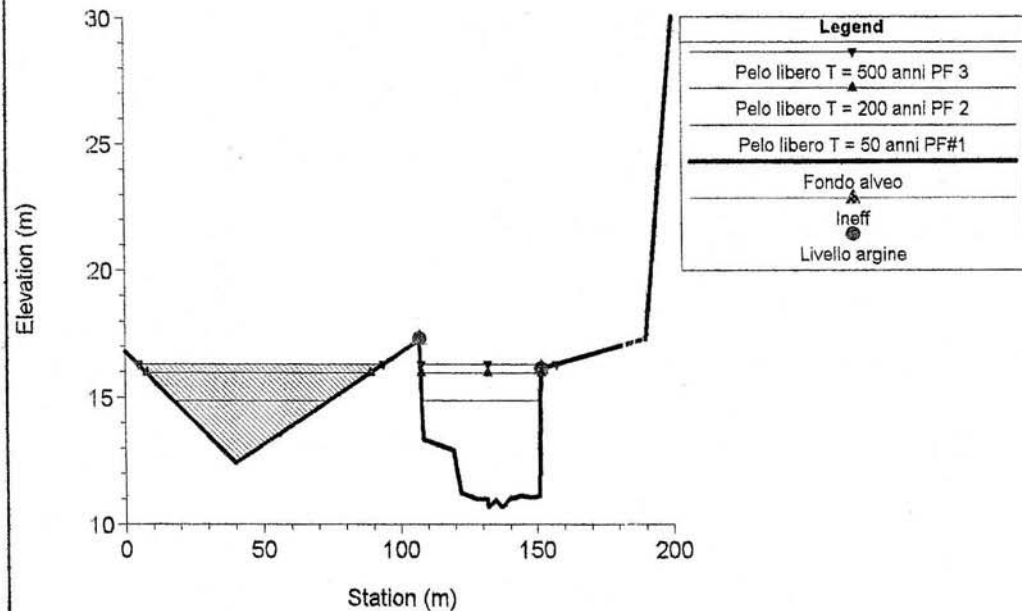


RS = 20.05 Torrente Letimbro

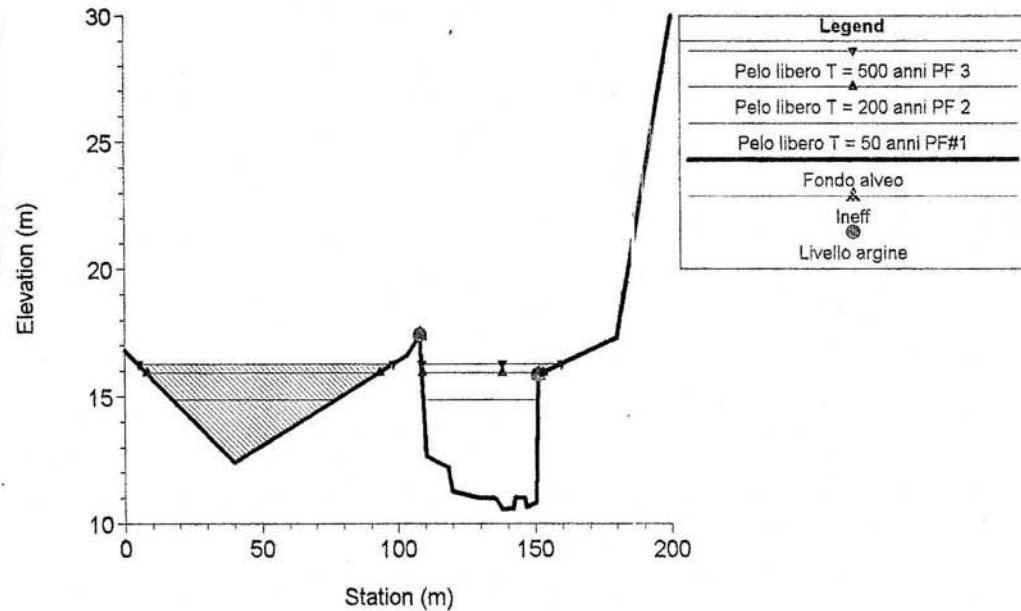


1 cm Horiz. = 50 m 1 cm Vert. = 5 m

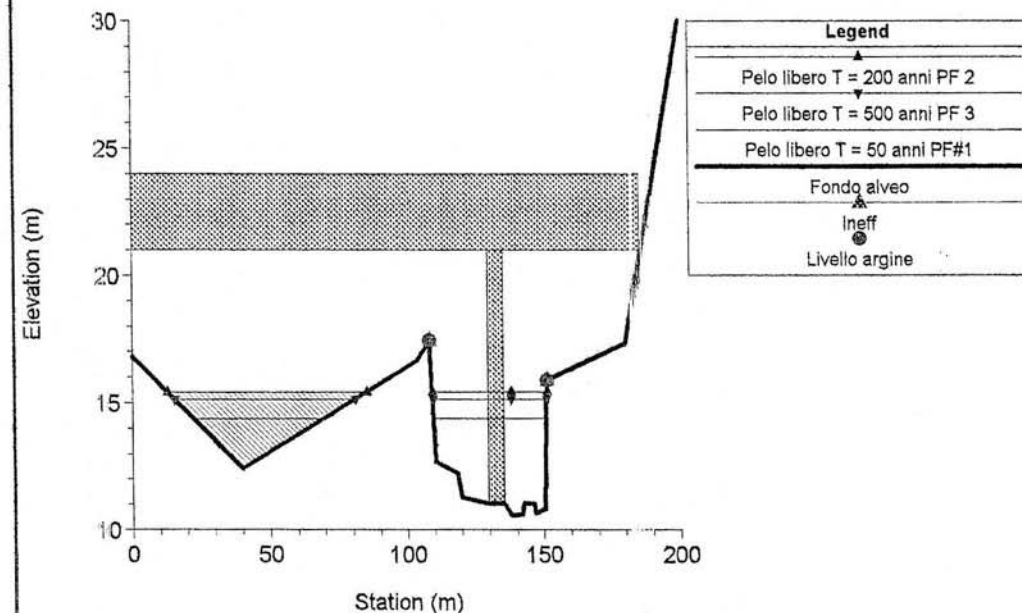
RS = 20.0



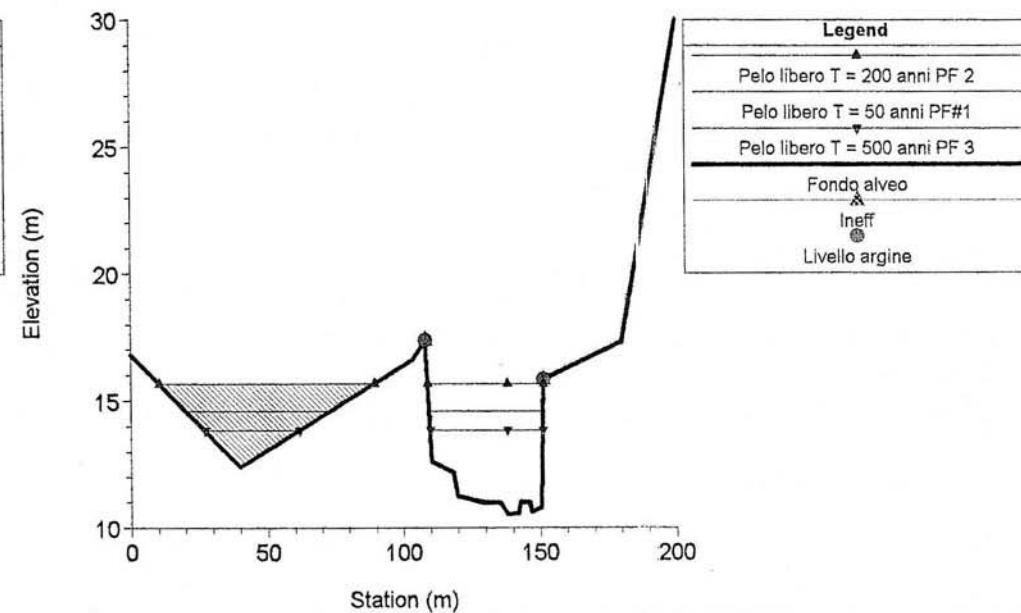
RS = 19.1



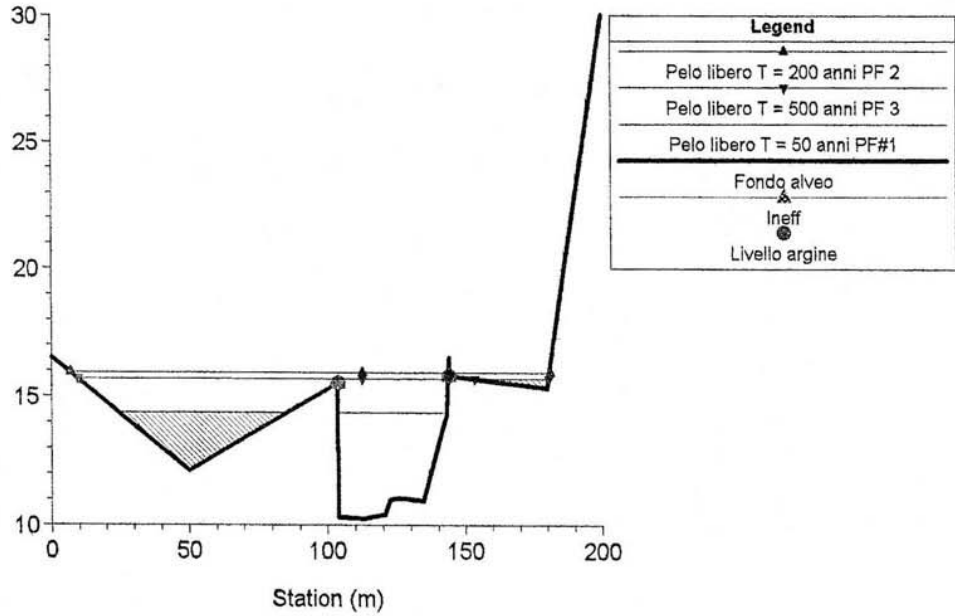
RS = 19.05



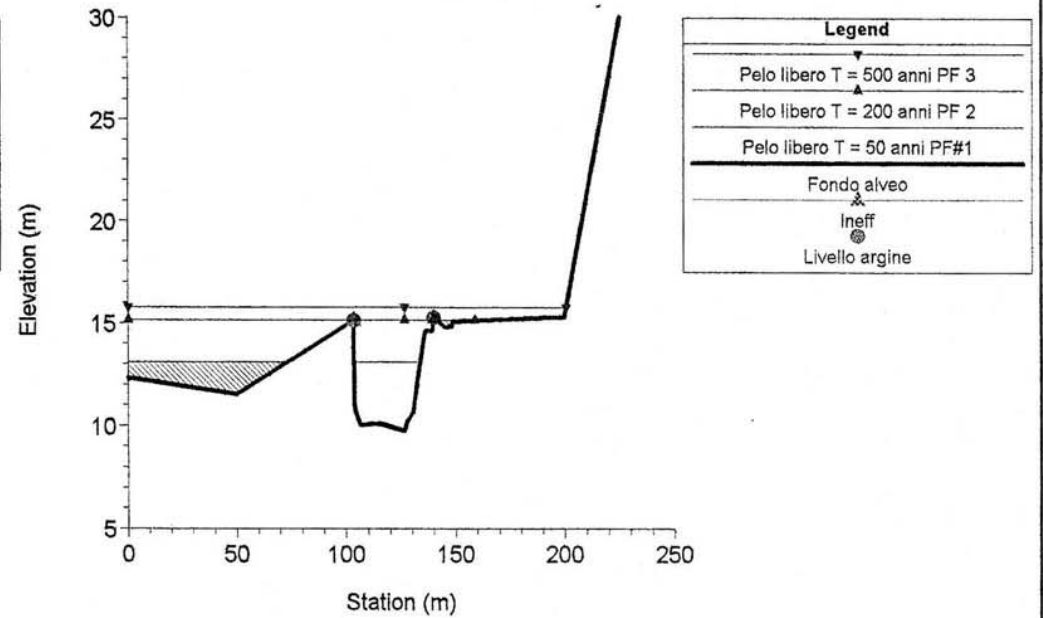
RS = 19.0



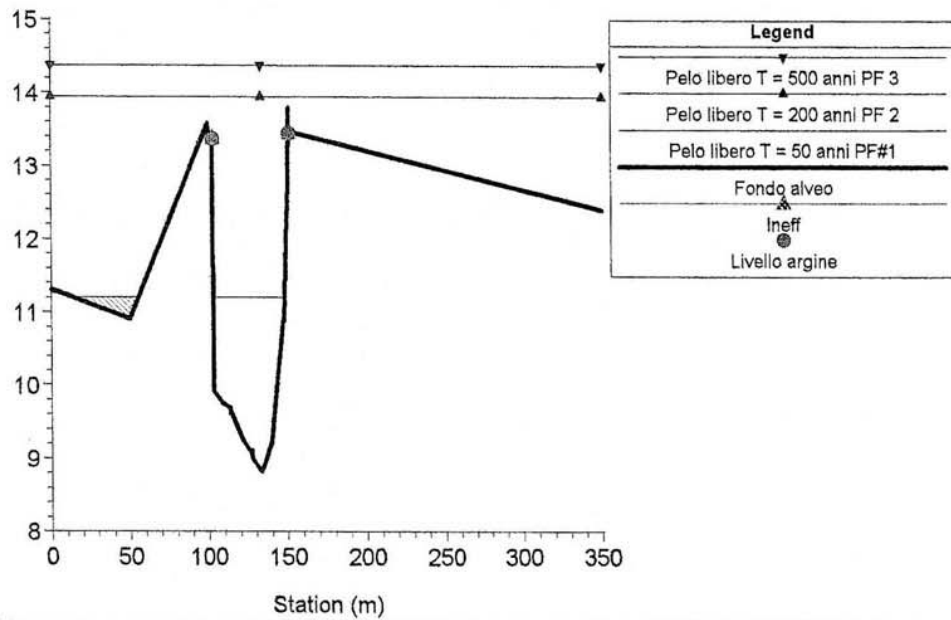
RS = 18



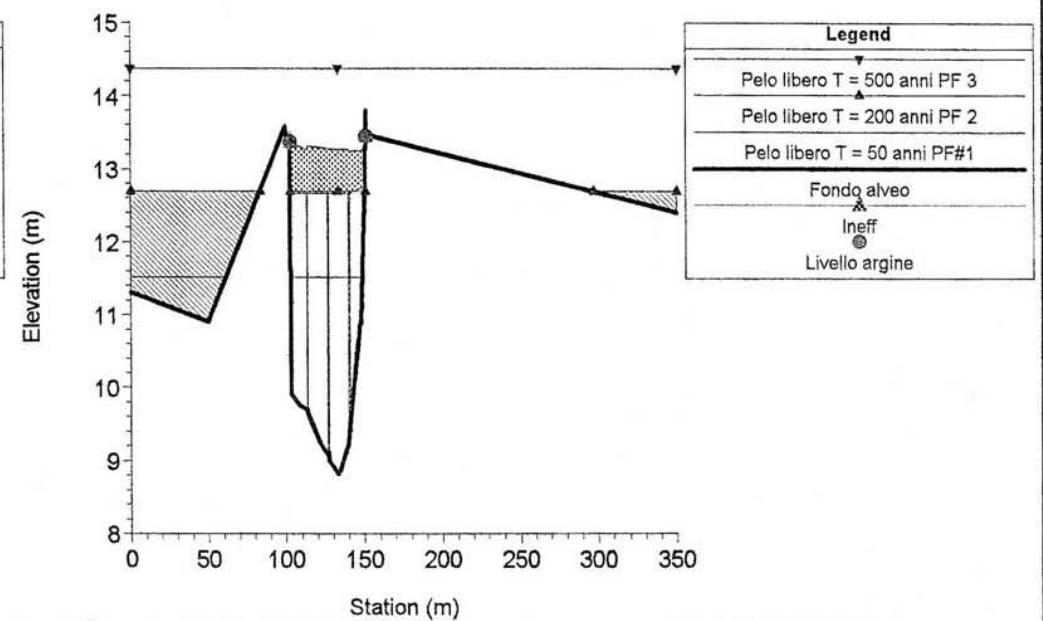
RS = 17



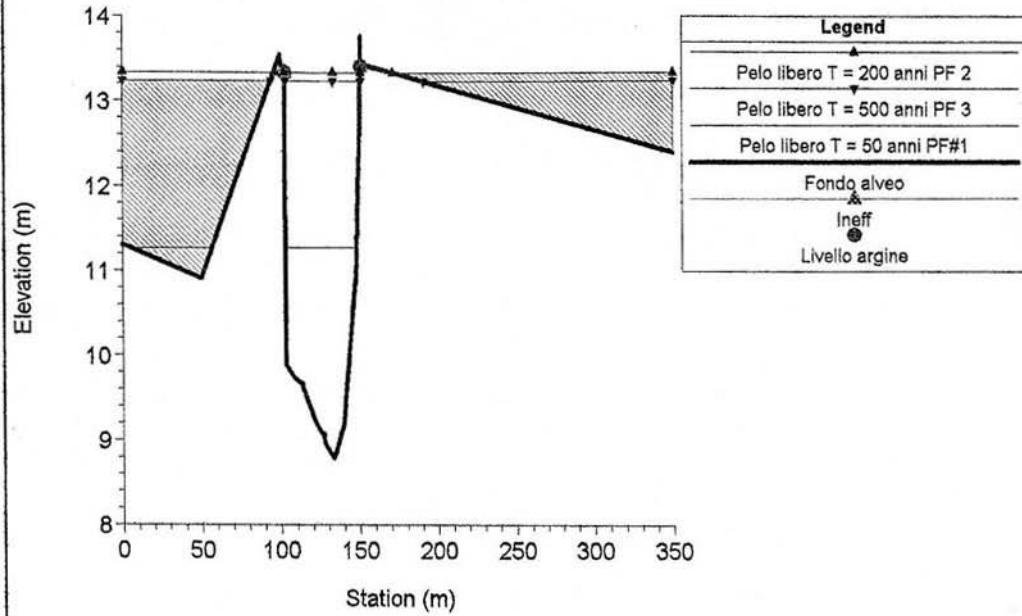
RS = 16.1



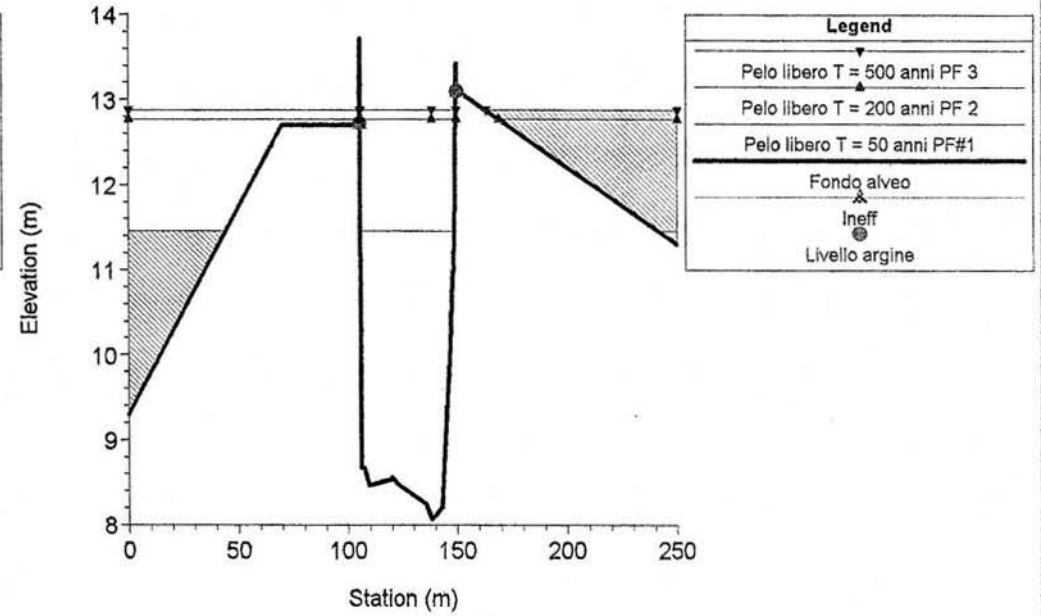
RS = 16.05



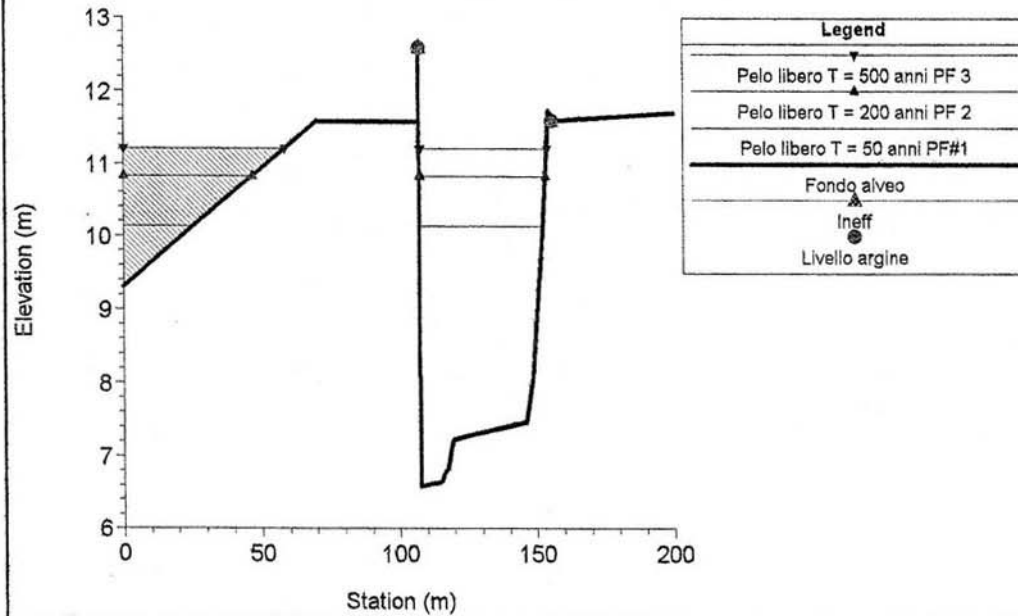
RS = 16.0



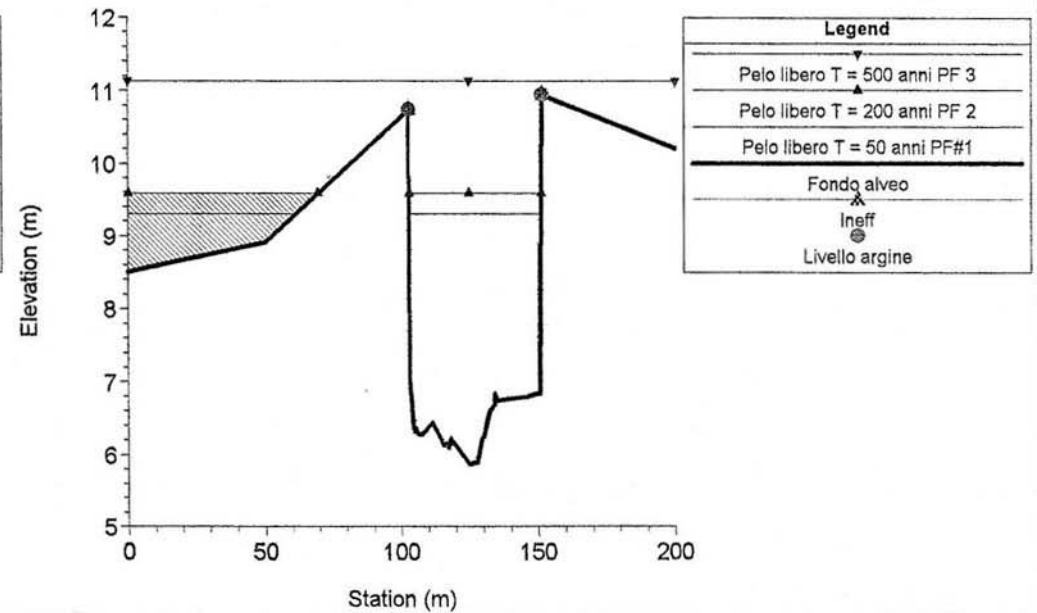
RS = 15

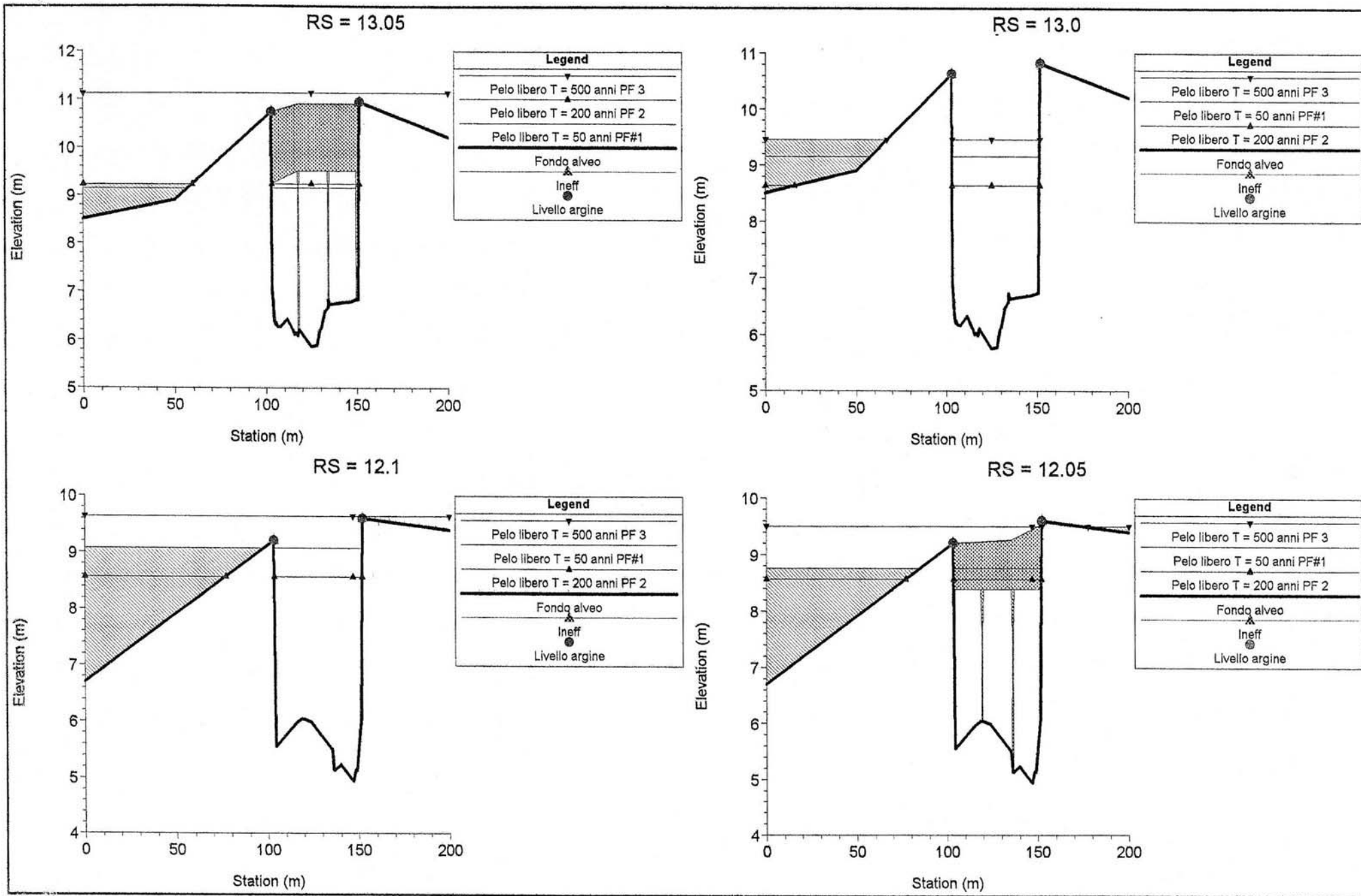


RS = 14.0

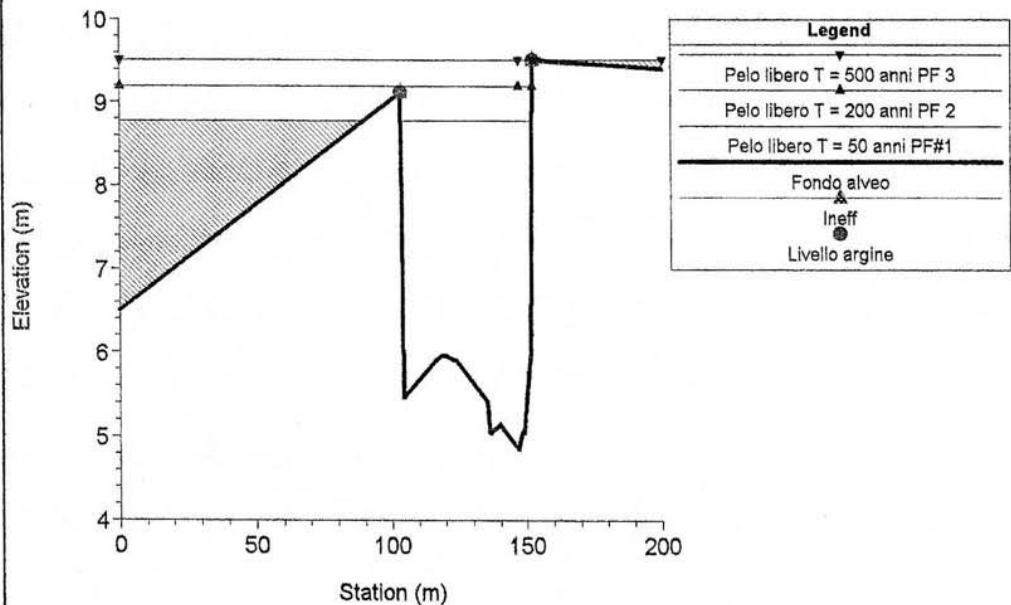


RS = 13.1

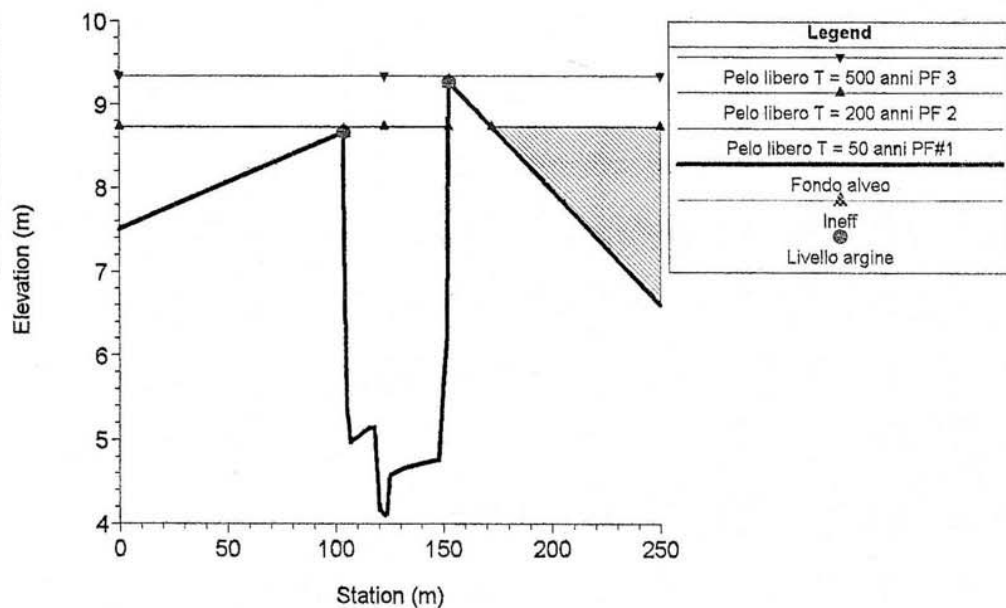




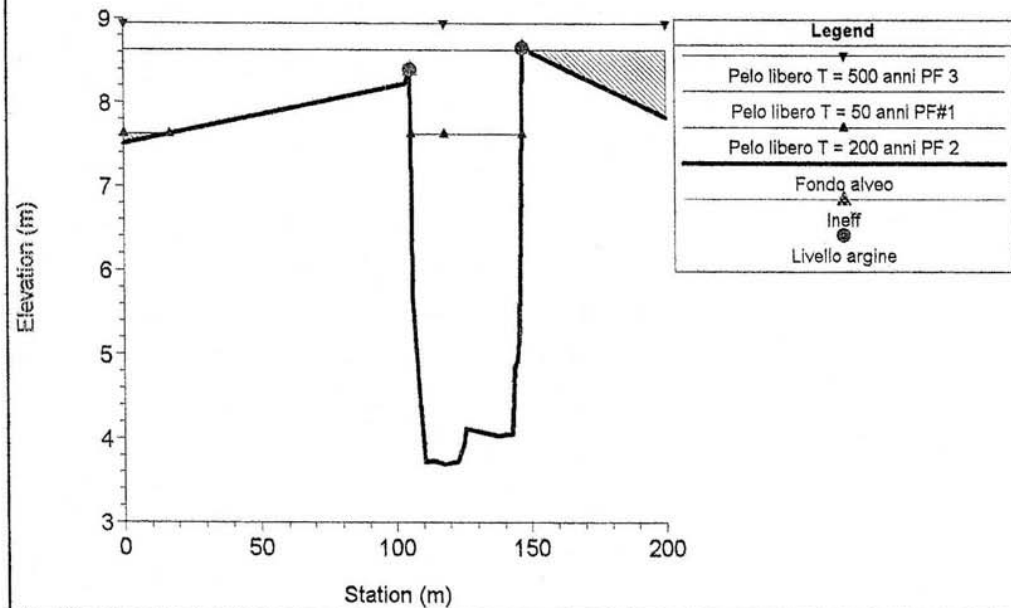
RS = 12.0



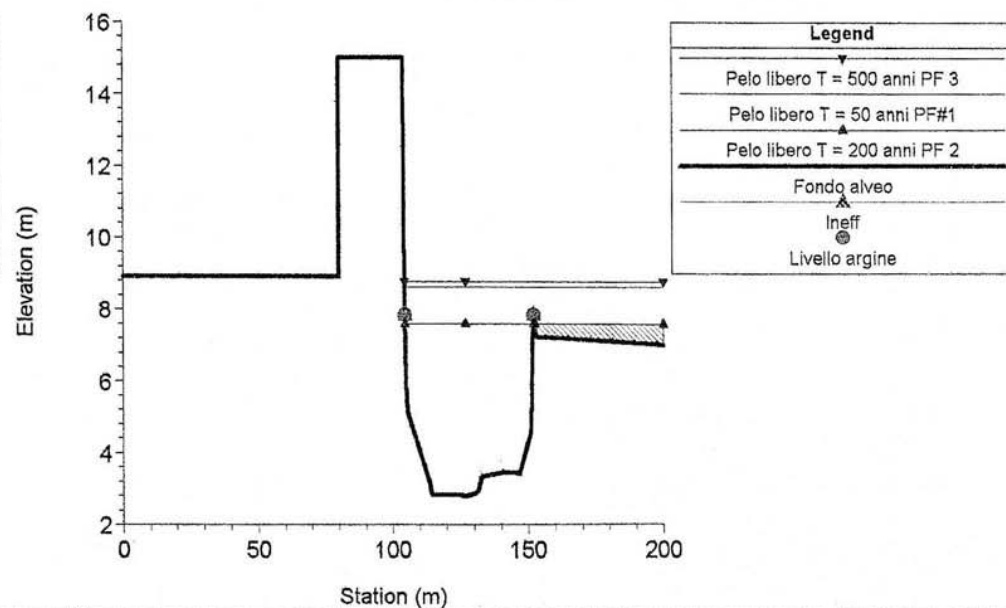
RS = 11



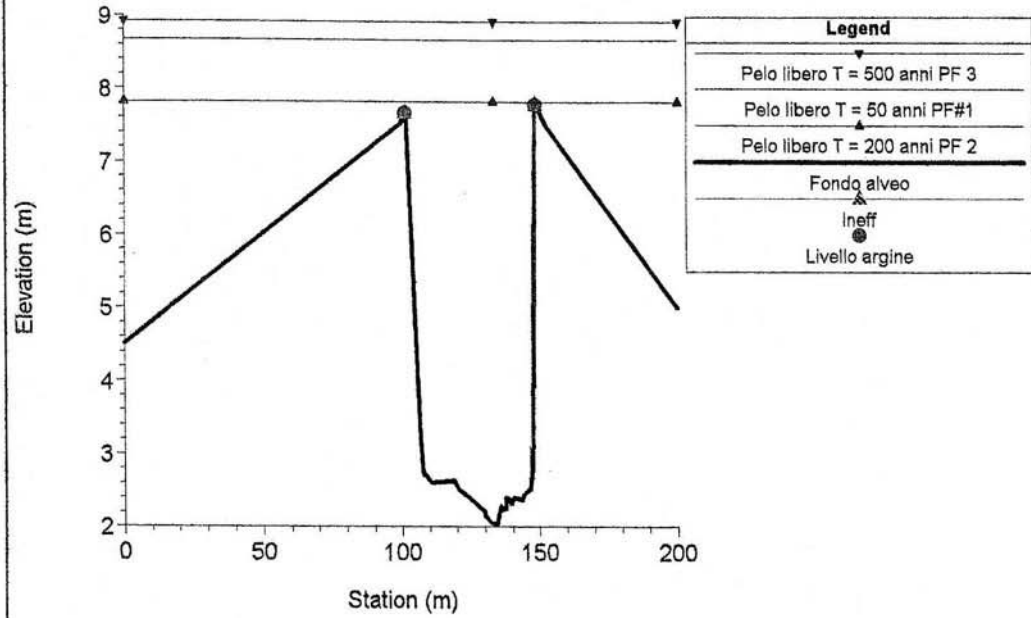
RS = 10



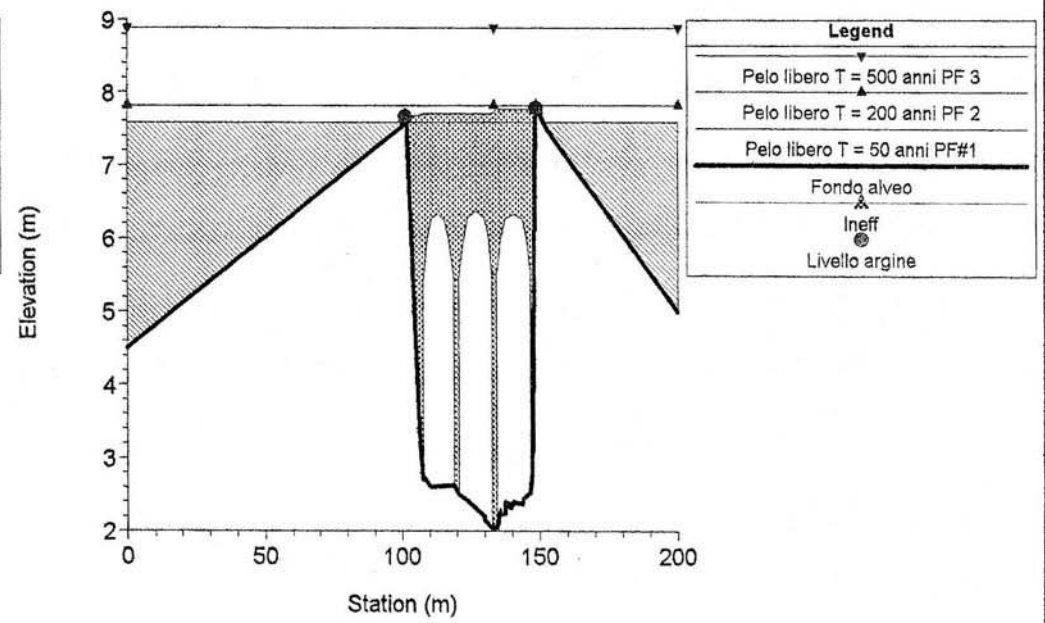
RS = 9



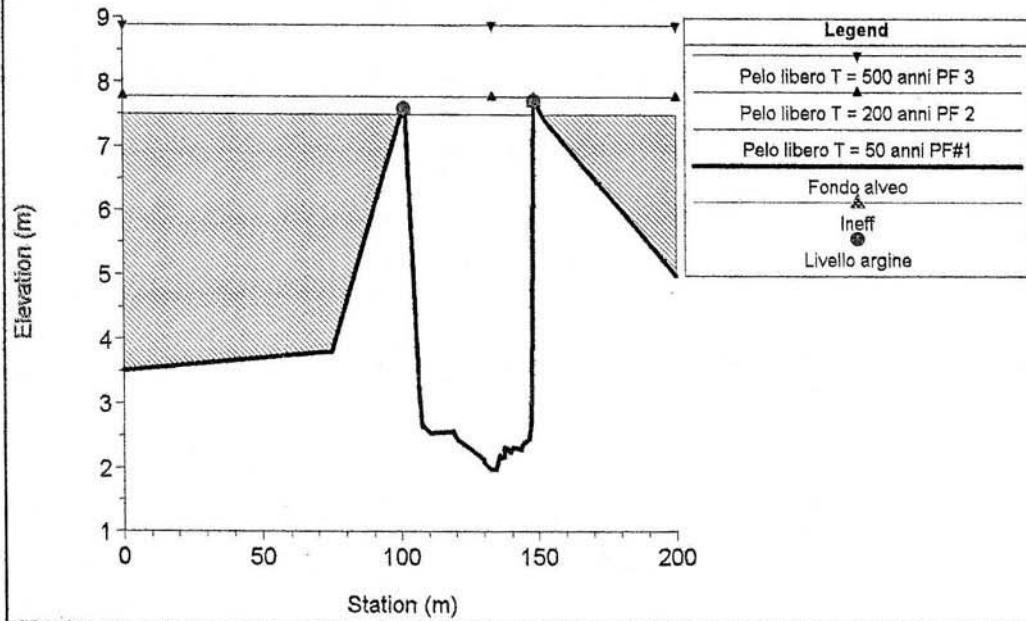
RS = 8.1



RS = 8.05



RS = 8.0



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

LETIMBRO

Torrente Letimbro - Modellazione idraulica in moto permanente - Stato di fatto (T = 50 ANNI)

Sezione	Distanza progressiva	Fondo alveo	Pelo libero [m]	Quota critica [m]	Carico totale [m]	Sponda sinistra [m]	Sponda destra [m]	v media [m2/s]	Sezione utile [m3]	Larghezza sezione [m]	Qmax [m3/s]	Qtot [m3/s]	N° Froude	Quota max intradosso [m]
87	0,1	130,9	132,81	133,22	134,1	136,52	137,41	5,09	53,04	0	270	270	1,57	
86	134	126,82	128,61	129,26	130,7	135,19	131,88	6,44	41,9	0	270	270	1,75	
85	222	125,31	128,46	128,42	129,3	130,05	138,3	3,96	68,17	0	270	270	0,96	
84	482,01	122,37	124,74	125,24	126,6	127,44	127,52	6,11	44,18	0	270	270	1,38	
83	852,01	118,42	120,84	121,05	121,9	124,66	121,26	4,63	58,34	0	270	270	1,18	
82M	906,01	116,23	119,21	119,76	121,1	121,19	121,42	6,04	44,73	0	270	270	1,45	121,66
82V	910,01	116,2	119,26	119,73	121	121,15	121,39	5,77	46,8	0	270	270	1,42	121,66
81,3	1161,02	115,49	117,83	117,83	118,7	121,17	120,73	4,01	67,37	0	270	270	1	
81	1161,12	114,41	117,13	117,55	118,6	121,17	120,73	5,35	50,5	0	270	270	1,42	
80	1376,02	111,66	115,32	115,09	116,3	116,8	119,86	4,37	61,73	0	270	270	0,87	
79M	1626	107,85	113,87	112,16	114,3	115,74	115,31	2,98	96,43	0	261,45	270	0,49	115,43
79V	1631	107,79	112,1	112,1	113,5	115,68	115,25	5,2	51,93	0	270	270	1	115,43
78	1801	106,32	112,07	109,53	112,3	114,42	110,32	2,1	128,77	0	270	270	0,32	
77M	1947	104,75	112,02	107,97	112,2	111,42	111,09	1,93	147,91	0	262,74	270	0,25	110,46
77V	1952	104,64	107,86	107,86	109,2	111,31	110,98	5,16	52,34	0	270	270	1	110,46
76	2129	100,99	105,18	105,75	107,1	104,24	106,3	6,28	48,05	0	273,93	290	1,31	
75	2299	100,4	102,62	103,19	104,6	102,02	104,87	6,36	48,18	0	276,71	290	1,45	
74	2443	98,36	101,38	101,43	102,3	102,34	101,1	4,17	69,88	0	289,21	290	1,01	
73	2590,99	96,77	98,97	99,31	100,2	110,9	98,83	4,89	61,44	0	285,71	290	1,35	
72	2731	94,91	97,98	98,08	98,81	104,25	99,1	4,04	71,85	0	290	290	1,1	
71	2821	94,41	96,32	96,66	97,6	105,38	97,68	5,01	57,83	0	290	290	1,39	
70	2971,99	91,61	95,8	94,47	96,13	98,09	97,59	2,57	113,04	0	290	290	0,47	
69	3090,99	90,42	95,33	93,95	95,91	94,44	94,54	3,41	89,49	0	282,66	290	0,54	
68M	3133	89,9	95,58	92,38	95,72	95,41	93,93	1,72	178,54	0	273,02	290	0,24	93,8
68V	3139	89,86	94,29	92,34	94,57	95,37	93,89	2,37	125,77	0	287,43	290	0,37	93,8
67	3157	89,7	92,75	92,75	93,97	95	93,74	4,91	61,13	0	300	300	1	
66M	3349	87,19	90,23	90,46	91,54	92,06	92,13	5,06	59,24	0	300	300	1,18	92,85
66V	3354	87,13	90,25	90,39	91,46	92	92,07	4,87	61,59	0	300	300	1,11	92,85
65	3484	86,02	88,92	89,2	90,34	90,22	90,55	5,27	56,92	0	300	300	1,16	
64	3702,99	82,63	85,11	85,48	86,48	85,84	89,76	5,18	57,92	0	300	300	1,49	
63M	3951,01	80	85,03	83,01	85,32	85,03	83,81	2,39	128,34	0	297,95	300	0,38	86,8
63V	3954,01	79,91	83,83	82,92	84,39	84,94	83,72	3,31	90,52	0	300	300	0,62	86,8
62	4110,01	77,5	81,86	81,86	83,3	99,9	82,6	5,32	61,05	0	325	325	1	
61	4288,01	75,82	78,33	78,85	80,12	79,82	79,39	5,93	54,84	0	325	325	1,57	
60M	4531,01	74,02	77,91	77,77	78,92	78,83	78,81	4,46	72,85	0	325	325	0,92	79,63
60V	4536,01	73,91	77,66	77,66	78,8	78,72	78,7	4,73	68,72	0	325	325	1	79,63
59	4646,01	71,58	74,95	75,55	77,15	75,64	78,04	6,57	49,49	0	325	325	1,47	
58	4806,01	70,31	75,29	73,96	75,66	75,26	75,28	2,68	122,43	0	324,66	325	0,48	
57	4944,01	70,04	75,17	73,07	75,46	73,61	75,42	2,44	139,32	0	313,08	325	0,38	
56M	4982,01	69,29	75,25	71,93	75,39	75,57	74,55	1,72	207,19	0	294,31	325	0,23	74,17
56V	4988,01	69,25	72,62	72,62	73,67	75,53	74,51	4,55	72,46	0	324,03	325	0,95	74,17
55	5059,01	68,63	71,09	71,41	72,66	73,71	72	5,54	58,64	0	325	325	1,24	
54	5147,01	65,18	67,95	68,89	70,88	72,13	71,23	7,59	44,82	0	340	340	1,82	
53	5337,01	63,26	69,37	67,11	69,76	68,07	68,72	2,83	125,47	0	326,81	340	0,42	
52M	5456,01	61,74	69,28	65,79	69,63	68,56	69,41	2,65	135,28	0	329,56	340	0,33	66,18
52V	5461,01	61,69	65,88	65,74	67,38	68,5	69,35	5,43	62,64	0	340	340	0,94	66,18
51	5559,01	60,82	65,38	64,46	66,15	67,39	80	3,9	87,28	0	340	340	0,66	
50	5679,01	59,46	62,09	62,85	64,65	66	80	7,09	47,97	0	340	340	1,8	
49,2	5789,01	58,61	60,79	61,38	62,92	64,61	80	6,45	52,68	0	340	340	1,48	
49	5789,11	57,28	59,55	60,55	62,8	64,61	80	7,99	42,55	0	340	340	1,9	
48	5874,01	53,26	57,43	58,31	60,65	61,01	63,1	7,95	42,79	0	340	340	1,46	
47M	5986,01	52,71	56,83	57,23	59,21	59,28	59,58	6,83	49,79	0	340	340	1,17	59,39
47V	5988,01	52,61	57,13	57,13	59,04	59,18	59,48	6,13	55,49	0	340	340	1	59,39
46	6171,02	49,27	52,69	53,5	55,31	58,78	58,93	7,16	47,46	0	340	340	1,6	
45M	6290,02	44	50,69	47,54	51,09	50,37	49,4	2,85	124,31	0	330,35	340	0,36	48,2
45V	6295,01	43,61	47,15	47,15	48,81	49,98	49,01	5,71	59,5	0	340	340	1	48,2
44	6382,01	40,26	46,16	43,1	46,3	49,14	44,57	1,7	202,75	0	334,27	340	0,25	
43	6426,01	39,65	45,63	43,6	46,09	48,53	44,66	3,08	121,63	0	316,96	340	0,45	
42	6448,02	38,19	45,61	41,03	45,7	47,07	45,2	1,3	262,05	0	339,58	340	0,17	
41M	6481,02	37,08	45,13	42,74	45,51	47,3	44,79	2,74	128,27	0	336,25	340	0,39	44,75
41V	6486,01	36,98	42,64	42,64	44,03	47,2	44,69	5,22	65,08	0	340	340	1	44,75
40	6793,01	29,9	32,62	33,55	35,78	34,06	50	7,88	43,17	0	340	340	1,74	
39	6941,01	26,44	31,74	29,5	32,08	30,73	29,88	2,64	139,59	0	314,68	340	0,38	
38M	7214,01	24,98	31,57	28,45	31,83	29,95	30,37	2,36	162,66	0	305,43	340	0,31	29,19

38V	7219,01	24,95	28,42	28,42	29,94	29,92	30,34	5,46	62,28	0	340	340	1	29,19
37	7273,01	24,29	26,28	26,99	28,6	29,8	30,63	6,75	50,38	0	340	340	1,73	
36M	7378,01	22,69	25,19	25,57	26,8	27,62	27,56	5,62	60,5	0	340	340	1,32	27,56
36V	7382,01	22,63	25,95	25,51	26,73	27,57	27,51	3,91	86,97	0	340	340	0,77	27,56
35	7480,01	20,83	24,77	24,8	26,15	25,38	27,29	5,2	71,17	0	370	370	1,02	
34M	7643,01	18,74	22,93	23,22	24,67	25,32	25,32	5,84	63,35	0	370	370	1,17	44,65
34V	7655,01	18,69	22,86	23,17	24,63	25,27	25,27	5,89	62,84	0	370	370	1,19	44,65
33M	7685,01	18,67	20,37	21,36	23,78	24,73	24,47	8,18	45,23	0	370	370	2,08	24,45
33V	7690,01	18,66	20,43	21,35	23,53	24,72	24,46	7,79	47,47	0	370	370	1,94	24,45
32	7716,01	18,65	21,98	21,21	22,7	24,5	25	3,77	98,27	0	370	370	0,67	
31	7762,01	18,5	21,47	21,2	22,49	24,44	25	4,48	82,64	0	370	370	0,86	
30	7826,01	18,4	20,93	20,89	22,08	23,83	25	4,77	77,65	0	370	370	0,98	
29	7879	18,2	21,05	20,43	21,65	23,6	25	3,43	108,02	0	370	370	0,67	
28	7901,01	17,9	21,16	19,99	21,52	23,26	25	2,65	139,72	0	370	370	0,49	
27M	8062,01	15,91	20,36	19,35	21,18	22,63	23,84	4,03	91,92	0	370	370	0,65	24,65
27V	8067,01	15,89	19,71	19,33	20,88	22,61	23,81	4,78	77,42	0	370	370	0,84	24,65
26	8089,01	15,75	19,63	18,44	20,2	21,5	22	3,35	110,32	0	370	370	0,56	
25	8177	15,4	19,49	18,35	19,99	19	21,8	3,15	117,64	0	370	370	0,55	
24M	8284	14,17	19,41	17,42	19,78	22,34	23,28	2,69	137,77	0	370	370	0,41	22
24V	8292	14,12	18,05	17,37	18,8	24,29	23,23	3,84	96,42	0	370	370	0,7	22
23	8476	12,81	17,16	17,16	18,05	17,16	20,63	4,45	116,25	0	377,36	460	0,83	
22	8656,01	11,85	15,49	14,78	16,23	15,5	18,58	3,8	121,18	0	460	460	0,69	
21	8774,01	11,12	14,86	14,4	15,75	14,15	16,21	4,18	111,92	0	457,34	460	0,77	
20M	8812,01	10,72	15	13,95	15,52	17,34	16,17	3,21	143,4	0	460	460	0,57	21
20V	8824,01	10,66	14,82	13,89	15,38	17,28	16,11	3,34	137,87	0	460	460	0,6	21
19M	8843,01	10,56	14,8	13,64	15,33	17,39	15,83	3,2	143,77	0	460	460	0,55	21
19V	8849,01	10,53	14,47	13,61	15,1	17,36	15,8	3,5	131,39	0	460	460	0,63	21
18	8918,01	10,21	14,19	13,36	14,89	15,5	15,79	3,7	124,25	0	460	460	0,66	
17	8973,01	9,74	13,15	13,15	14,58	15,09	15,22	5,3	86,74	0	460	460	1	
16M	9080,01	8,82	11,2	11,7	13,02	13,36	13,44	5,97	77,11	0	460	460	1,46	12,66
16V	9084,01	8,79	11,26	11,66	12,89	13,33	13,41	5,66	81,27	0	460	460	1,35	12,66
15	9234,01	8,07	11,46	10,81	12,15	12,71	13,09	3,7	124,29	0	460	460	0,7	
14	9394	6,58	10,12	9,52	10,81	12,71	11,58	3,67	125,19	0	460	460	0,7	
13M	9546	5,86	9,12	8,53	9,76	10,73	10,93	3,56	129,1	0	460	460	0,69	9,5
13V	9560	5,75	8,67	8,47	9,57	10,62	10,81	4,2	112,98	0	475	475	0,88	9,5
12M	9660	4,94	8,41	7,78	9,05	9,2	9,6	3,56	133,58	0	475	475	0,68	8,39
12V	9675	4,85	8,25	7,69	8,93	9,11	9,51	3,64	130,55	0	475	475	0,71	8,39
11	9814	4,1	7,95	7,01	8,47	8,66	9,26	3,2	148,49	0	475	475	0,58	
10	9949	3,69	7,62	6,5	8,18	8,39	8,65	3,31	143,5	0	475	475	0,57	
9	10079	2,76	7,6	5,63	7,92	7,82	7,82	2,49	196,52	0	490	490	0,39	
8M	10179	2,04	7,57	4,87	7,82	7,65	7,77	2,2	222,96	0	490	490	0,32	6,37
8V	10189	1,97	6,74	4,8	7,09	7,58	7,7	2,61	187,89	0	490	490	0,41	6,37

Torrente Letimbro - Modellazione idraulica in moto permanente - Stato di fatto (T = 200 ANNI)

Sezione	Distanza progressiva	Fondo alveo	Pelo libero [m]	Quota critica [m]	Carico totale [m]	Sponda sinistra [m]	Sponda destra [m]	v media [m ² /s]	Sezione utile [m ³]	Larghezza sezione [m]	Qmax [m ³ /s]	Qtot [m ³ /s]	N° Froude	Quota max intradosso [m]
87	0	130,9	133,15	133,59	134,63	136,52	137,41	5,4	71,3	0	385	385	1,54	
86	134	126,82	129,02	129,82	131,55	135,19	131,88	7,05	54,65	0	385	385	1,72	
85	222	125,31	129,01	128,9	129,93	130,05	138,3	4,24	90,9	0	385	385	0,92	
84	482,01	122,37	125,37	125,93	127,57	127,44	127,52	6,57	58,62	0	385	385	1,32	
83	852,01	118,42	121,33	121,65	122,56	124,66	121,26	4,92	79,46	0	382,32	385	1,2	
82M	906,01	116,23	119,79	120,29	121,74	121,19	121,42	6,2	62,07	0	385	385	1,4	121,66
82V	910,01	116,2	119,83	120,26	121,64	121,15	121,39	5,95	64,69	0	385	385	1,32	121,66
81,3	1161,02	115,49	118,31	118,31	119,29	121,17	120,73	4,38	87,82	0	385	385	1	
81	1161,12	114,41	117,61	118,05	119,23	121,17	120,73	5,63	68,44	0	385	385	1,36	
80	1376,02	111,66	116,32	115,89	117,25	116,8	119,86	4,26	90,29	0	385	385	0,79	
79M	1626	107,85	112,28	112,98	114,85	115,74	115,31	7,1	54,21	0	385	385	1,34	115,43
79V	1631	107,79	112,14	112,92	114,86	115,68	115,25	7,31	52,68	0	385	385	1,4	115,43
78	1801	106,32	112,86	110,2	113,19	114,42	110,32	2,53	152,27	0	385	385	0,36	
77M	1947	104,75	112,8	108,71	113,07	111,42	111,09	2,34	179,49	0	357,72	385	0,28	110,46
77V	1952	104,64	108,61	108,61	110,3	111,31	110,98	5,75	66,9	0	385	385	1	110,46
76	2129	100,99	105,72	106,49	108,08	104,24	106,3	6,96	61,92	0	378,36	415	1,39	
75	2299	100,4	103,07	103,82	105,53	102,02	104,87	7,15	61,65	0	382,53	415	1,47	
74	2443	98,36	101,81	101,95	102,9	102,34	101,1	4,63	90,28	0	411,68	415	1,1	
73	2590,99	96,77	99,17	99,7	100,93	110,9	98,83	5,96	73,2	0	400,24	415	1,53	
72	2731	94,91	98,28	98,48	99,42	104,25	99,1	4,74	87,64	0	415	415	1,18	
71	2821	94,41	96,73	97,1	98,26	105,38	97,68	5,48	75,71	0	415	415	1,35	
70	2971,99	91,61	96,8	95,1	97,19	98,09	97,59	2,76	150,62	0	415	415	0,44	
69	3090,99	90,42	96,33	94,88	96,98	94,44	94,54	3,67	121,94	0	379,78	415	0,52	
68M	3133	89,9	96,61	92,96	96,79	95,41	93,93	1,97	227,41	0	372,72	415	0,25	93,8
68V	3139	89,86	95,55	92,92	95,84	95,37	93,89	2,46	178,77	0	390,62	415	0,34	93,8
67	3157	89,7	93,46	93,46	95,04	95	93,74	5,57	79,02	0	440	440	1	
66M	3349	87,19	90,69	91,08	92,5	92,06	92,13	5,95	73,99	0	440	440	1,27	92,85
66V	3354	87,13	90,63	91,02	92,44	92	92,07	5,95	73,92	0	440	440	1,27	92,85
65	3484	86,02	89,63	89,9	91,22	90,22	90,55	5,6	78,62	0	440	440	1,17	
64	3702,99	82,63	85,44	85,96	87,27	85,84	89,76	6	73,37	0	440	440	1,54	
63M	3951,01	80	86,22	83,71	86,56	85,03	83,81	2,61	177,1	0	422,17	440	0,37	86,8
63V	3954,01	79,91	85,08	83,62	85,66	84,94	83,72	3,37	134,4	0	435,26	440	0,53	86,8
62	4110,01	77,5	82,74	82,74	84,49	99,9	82,6	5,85	80,65	0	469,83	470	0,98	
61	4288,01	75,82	80,42	79,44	80,98	79,82	79,39	3,36	144,38	0	457,54	470	0,58	
60M	4531,01	74,02	80,12	78,44	80,53	78,83	78,81	2,97	176,3	0	424,05	470	0,45	79,63
60V	4536,01	73,91	78,34	78,34	79,74	78,72	78,7	5,25	89,46	0	470	470	1	79,63
59	4646,01	71,58	75,6	76,32	78,24	75,64	78,04	7,2	65,27	0	470	470	1,41	
58	4806,01	70,31	76,13	74,58	76,54	75,26	75,28	2,92	173,86	0	445,72	470	0,47	
57	4944,01	70,04	75,98	73,76	76,36	73,61	75,42	2,8	186,74	0	427,72	470	0,4	
56M	4982,01	69,29	76,08	72,56	76,27	75,57	74,55	2,04	263,03	0	400,99	470	0,26	74,17
56V	4988,01	69,25	73,25	73,25	74,51	75,53	74,51	5,04	96,59	0	456,76	470	0,94	74,17
55	5059,01	68,63	71,81	72,07	73,6	73,71	72	5,92	79,34	0	470	470	1,14	
54	5147,01	65,18	68,52	69,58	71,93	72,13	71,23	8,18	59,91	0	490	490	1,8	
53	5337,01	63,26	70,35	67,94	70,86	68,07	68,72	3,24	159,03	0	453,92	490	0,44	
52M	5456,01	61,74	70,26	66,7	70,7	68,56	69,41	3,09	180,96	0	440,29	490	0,36	66,18
52V	5461,01	61,69	66,68	66,64	68,73	68,5	69,35	6,34	77,23	0	490	490	0,99	66,18
51	5559,01	60,82	66,1	65,27	67,2	67,39	80	4,66	105,23	0	490	490	0,72	
50	5679,01	59,46	62,56	63,51	65,72	66	80	7,88	62,15	0	490	490	1,77	
49,2	5789,01	58,61	61,39	62,08	63,96	64,61	80	7,11	68,97	0	490	490	1,43	
49	5789,11	57,28	60,16	61,28	63,85	64,61	80	8,51	57,59	0	490	490	1,81	
48	5874,01	53,26	60,61	59,57	62,03	61,01	63,1	5,29	92,62	0	490	490	0,74	
47M	5986,01	52,71	60,46	58,32	61,46	59,28	59,58	4,51	117,53	0	469,84	490	0,55	59,39
47V	5988,01	52,61	58,21	58,21	60,61	59,18	59,48	6,86	71,47	0	490	490	1	59,39
46	6171,02	49,27	53,25	54,28	56,54	58,78	58,93	8,03	61,02	0	490	490	1,64	
45M	6290,02	44	51,72	48,46	52,24	50,37	49,4	3,31	162,83	0	444,66	490	0,39	48,2
45V	6295,01	43,61	48,58	48,07	50,27	49,98	49,01	5,76	85,05	0	490	490	0,84	48,2
44	6382,01	40,26	48,29	43,67	48,43	49,14	44,57	1,65	301,67	0	471,27	490	0,2	
43	6426,01	39,65	48,09	44,98	48,34	48,53	44,66	2,39	225,66	0	380,64	490	0,3	
42	6448,02	38,19	48,08	41,6	48,16	47,07	45,2	1,3	387,47	0	478,78	490	0,14	
41M	6481,02	37,08	47,86	43,53	48,08	47,3	44,79	2,15	240,34	0	407,67	490	0,25	44,75
41V	6486,01	36,98	43,42	43,42	45,17	47,2	44,69	5,86	83,59	0	490	490	1	44,75
40	6793,01	29,9	33,48	34,44	36,76	34,06	50	8,02	61,09	0	490	490	1,5	
39	6941,01	26,44	32,58	30,35	33,02	30,73	29,88	3,06	174,28	0	427,73	490	0,41	
38M	7214,01	24,98	32,39	29,32	32,74	29,95	30,37	2,76	202,3	0	408,77	490	0,34	29,19
38V	7219,01	24,95	29,29	29,29	31,18	29,92	30,34	6,09	80,43	0	490	490	1	29,19
37	7273,01	24,29	26,69	27,57	29,66	29,8	30,63	7,63	64,19	0	490	490	1,79	
36M	7378,01	22,69	28,08	26,19	28,51	27,62	27,56	2,96	186,68	0	463,93	490	0,44	27,56
36V	7382,01	22,63	26,86	26,13	27,76	27,57	27,51	4,19	116,83	0	490	490	0,71	27,56
35	7480,01	20,83	25,59	25,59	27,23	25,38	27,29	5,68	93,93	0	529,6	530	0,98	
34M	7643,01	18,74	23,63	23,99	25,82	25,32	25,32	6,54	81	0	530	530	1,17	44,65
34V	7655,01	18,69	23,51	23,94	25,8	25,27	25,27	6,7	79,06	0	530	530	1,21	44,65
33M	7685,01	18,67	20,83	22,05	24,97	24,73	24,47	9,01	58,84	0	530	530	2,02	24,45
33V	7690,01	18,66	20,9	22,04	24,74	24,72	24,46	8,68	61,06	0	530	530	1,92	24,45
32	7716,01	18,65	22,82	21,89	23,75	24,5	25	4,28	123,83	0	530	530	0,68	
31	7762,01	18,5	22,35	21,88	23,55	24,44	25	4,86	109,12	0	530	530	0,82	

30	7826,01	18,4	22,21	21,54	23,22	23,83	25	4,46	118,9	0	530	530	0,74	
29	7879	18,2	22,39	20,98	22,93	23,6	25	3,24	163,51	0	530	530	0,52	
28	7901,01	17,9	22,49	20,52	22,84	23,26	25	2,63	201,25	0	530	530	0,4	
27M	8062,01	15,91	21,55	20,16	22,54	22,63	23,84	4,42	119,87	0	530	530	0,63	24,65
27V	8067,01	15,89	20,88	20,14	22,19	22,61	23,81	5,07	104,62	0	530	530	0,77	24,65
26	8089,01	15,75	20,81	19,13	21,47	21,5	22	3,62	146,4	0	530	530	0,53	
25	8177	15,4	20,74	19	21,29	19	21,8	3,28	161,56	0	530	530	0,49	
24M	8284	14,17	20,66	18,09	21,11	22,34	23,28	2,98	177,57	0	530	530	0,41	22
24V	8292	14,12	19,02	18,04	19,91	24,29	23,23	4,18	126,89	0	530	530	0,66	22
23	8476	12,81	17,65	17,65	18,86	17,16	20,63	5,22	143,13	0	515,96	670	0,9	
22	8656,01	11,85	14,95	15,95	17,24	15,5	18,58	6,71	99,78	0	670	670	1,33	
21	8774,01	11,12	16,31	15,58	16,77	14,15	16,21	3,28	257,7	0	534,13	670	0,5	
20M	8812,01	10,72	16,06	14,6	16,69	17,34	16,17	3,53	189,76	0	670	670	0,54	21
20V	8824,01	10,66	15,88	14,54	16,55	17,28	16,11	3,63	184,65	0	670	670	0,57	21
19M	8843,01	10,56	15,86	14,31	16,51	17,39	15,83	3,56	188,1	0	670	670	0,54	21
19V	8849,01	10,53	15,55	14,28	16,29	17,36	15,8	3,8	176,27	0	670	670	0,59	21
18	8918,01	10,21	15,83	14,12	16,02	15,5	15,79	2,18	388,24	0	412,71	670	0,32	
17	8973,01	9,74	14,01	14,01	15,79	15,09	15,22	5,92	113,19	0	670	670	1	
16M	9080,01	8,82	13,93	12,33	14,01	13,36	13,44	1,5	631,9	0	308,07	670	0,23	12,66
16V	9084,01	8,79	13,33	12,3	13,55	13,33	13,41	2,32	346,17	0	413,45	670	0,38	12,66
15	9234,01	8,07	12,77	11,48	13,05	12,71	13,09	2,62	308,07	0	475,33	670	0,41	
14	9394	6,58	10,8	10,16	11,74	12,71	11,58	4,29	156,19	0	670	670	0,74	
13M	9546	5,86	9,58	9,14	10,58	10,73	10,93	4,43	151,32	0	670	670	0,8	9,5
13V	9560	5,75	8,63	9,03	10,49	10,62	10,81	6,05	110,8	0	670	670	1,27	9,5
12M	9660	4,94	9,29	8,39	9,59	9,2	9,6	2,73	315,38	0	482,67	690	0,46	8,39
12V	9675	4,85	9,21	8,3	9,49	9,11	9,51	2,67	321,67	0	472,75	690	0,45	8,39
11	9814	4,1	8,78	7,62	9,26	8,66	9,26	3,23	261,83	0	610,25	690	0,52	
10	9949	3,69	7,51	7,19	8,77	8,39	8,65	4,96	139	0	690	690	0,86	
9	10079	2,76	7,45	6,27	8,17	7,82	7,82	3,75	189,4	0	710	710	0,6	
8M	10179	2,04	7,66	5,55	7,87	7,65	7,77	2,26	392,99	0	514,23	710	0,33	6,37
8V	10189	1,97	7,65	5,48	7,73	7,58	7,7	1,33	580,62	0	304,71	710	0,19	6,37

Torrente Letimbro - Modellazione idraulica in moto permanente - Stato di fatto (T = 500 ANNI)														
Sezione	Distanza progressiva	Fondo alveo	Pelo libero [m]	Quota critica [m]	Carico totale [m]	Sponda sinistra [m]	Sponda destra [m]	v media [m ² /s]	Sezione utile [m ³]	Larghezza sezione [m]	Qmax [m ³ /s]	Qtot [m ³ /s]	N° Froude	Quota max intradosso [m]
87	0	130,9	133,36	133,82	134,94	136,52	137,41	5,58	83,32	0	465	465	1,49	
86	134	126,82	129,29	130,16	132,04	135,19	131,88	7,35	63,3	0	465	465	1,69	
85	222	125,31	129	129,18	130,35	130,05	138,3	5,16	90,19	0	465	465	1,13	
84	482,01	122,37	125,8	126,35	128,12	127,44	127,52	6,74	68,96	0	465	465	1,28	
83	852,01	118,42	122,42	121,89	122,95	124,66	121,26	3,28	145,08	0	448,22	465	0,68	
82M	906,01	116,23	122,37	120,63	122,8	121,19	121,42	2,99	169,37	0	426,24	465	0,45	121,66
82V	910,01	116,2	120,59	120,59	122,01	121,15	121,39	5,27	88,27	0	465	465	1	121,66
81,3	1161,02	115,49	118,61	118,61	119,67	121,17	120,73	4,58	101,59	0	465	465	1	
81	1161,12	114,41	117,91	118,36	119,61	121,17	120,73	5,77	80,53	0	465	465	1,33	
80	1376,02	111,66	116,72	116,23	117,77	116,8	119,86	4,54	102,49	0	465	465	0,79	
79M	1626	107,85	116,01	113,83	116,3	115,74	115,31	2,54	209,32	0	363,34	465	0,35	115,43
79V	1631	107,79	113,76	113,76	115,11	115,68	115,25	5,21	94,84	0	451,7	465	0,86	115,43
78	1801	106,32	113,33	110,66	113,73	114,42	110,32	2,8	166,28	0	465	465	0,38	
77M	1947	104,75	113,28	109,19	113,59	111,42	111,09	2,57	198,66	0	419,69	465	0,3	110,46
77V	1952	104,64	109,08	109,08	110,97	111,31	110,98	6,09	76,36	0	465	465	1	110,46
76	2129	100,99	105,99	106,86	108,66	104,24	106,3	7,43	70,64	0	448,38	500	1,43	
75	2299	100,4	103,35	104,12	106,09	102,02	104,87	7,57	70,15	0	453,05	500	1,48	
74	2443	98,36	101,89	102,2	103,34	102,34	101,1	5,34	94,28	0	495,6	500	1,25	
73	2590,99	96,77	99,33	99,93	101,34	110,9	98,83	6,4	82,56	0	474,32	500	1,56	
72	2731	94,91	98,48	98,73	99,79	104,25	99,1	5,07	98,61	0	500	500	1,19	
71	2821	94,41	96,97	97,38	98,67	105,38	97,68	5,78	86,54	0	500	500	1,33	
70	2971,99	91,61	97,32	95,41	97,76	98,09	97,59	2,94	170,08	0	500	500	0,44	
69	3090,99	90,42	96,84	95,43	97,55	94,44	94,54	3,9	139,86	0	442,57	500	0,53	
68M	3133	89,9	97,13	93,32	97,35	95,41	93,93	2,15	252,58	0	439,43	500	0,26	93,8
68V	3139	89,86	96,16	93,28	96,48	95,37	93,89	2,59	208	0	457,35	500	0,34	93,8
67	3157	89,7	94,02	94,02	95,66	95	93,74	5,68	94,7	0	528,47	530	0,94	
66M	3349	87,19	90,93	91,43	93,07	92,06	92,13	6,49	81,65	0	530	530	1,32	92,85
66V	3354	87,13	90,87	91,37	93,01	92	92,07	6,47	81,9	0	530	530	1,31	92,85
65	3484	86,02	89,94	90,28	91,73	90,22	90,55	5,92	89,46	0	530	530	1,18	
64	3702,99	82,63	87,76	86,23	88,18	85,84	89,76	2,85	186,51	0	529,55	530	0,47	
63M	3951,01	80	87,66	84,09	87,94	85,03	83,81	2,39	238,08	0	491,55	530	0,3	86,8
63V	3954,01	79,91	85,67	84	86,28	84,94	83,72	3,5	158,3	0	515,25	530	0,51	86,8
62	4110,01	77,5	83,77	83,77	85,03	99,9	82,6	5,11	124,8	0	527,71	565	0,76	
61	4288,01	75,82	78,8	79,8	81,88	79,82	79,39	7,77	72,74	0	565	565	1,8	
60M	4531,01	74,02	80,31	78,91	80,84	78,83	78,81	3,36	187,79	0	500,36	565	0,5	79,63
60V	4536,01	73,91	78,81	78,81	80,29	78,72	78,7	5,39	106,05	0	563,93	565	0,95	79,63
59	4646,01	71,58	76,01	76,86	78,87	75,64	78,04	7,5	75,54	0	564,71	565	1,37	
58	4806,01	70,31	76,51	74,91	76,98	75,26	75,28	3,11	197,68	0	521	565	0,48	
57	4944,01	70,04	76,36	74,24	76,78	73,61	75,42	3,02	212,34	0	494,36	565	0,42	
56M	4982,01	69,29	76,46	72,93	76,69	75,57	74,55	2,23	291,87	0	466,31	565	0,27	74,17
56V	4988,01	69,25	73,59	73,59	75,01	75,53	74,51	5,36	109,52	0	541,58	565	0,94	74,17
55	5059,01	68,63	72,27	72,46	74,16	73,71	72	6,09	92,74	0	565	565	1,09	
54	5147,01	65,18	68,83	70	72,55	72,13	71,23	8,55	69,04	0	590	590	1,79	
53	5337,01	63,26	70,78	68,65	71,39	68,07	68,72	3,57	174,03	0	538,59	590	0,46	
52M	5456,01	61,74	70,72	67,25	71,22	68,56	69,41	3,33	208	0	503,13	590	0,37	66,18
52V	5461,01	61,69	67,2	67,2	69,55	68,5	69,35	6,79	86,84	0	590	590	1	66,18
51	5559,01	60,82	64,92	65,73	67,99	67,39	80	7,77	75,92	0	590	590	1,4	
50	5679,01	59,46	62,84	63,9	66,36	66	80	8,31	70,98	0	590	590	1,75	
49,2	5789,01	58,61	61,76	62,5	64,58	64,61	80	7,44	79,29	0	590	590	1,4	
49	5789,11	57,28	60,52	61,7	64,47	64,61	80	8,8	67,03	0	590	590	1,76	
48	5874,01	53,26	60,92	60,17	62,76	61,01	63,1	6,01	98,18	0	590	590	0,82	
47M	5986,01	52,71	60,8	58,97	62,02	59,28	59,58	5,03	128,59	0	550,7	590	0,6	59,39
47V	5988,01	52,61	58,88	58,88	61,55	59,18	59,48	7,24	81,44	0	590	590	1	59,39
46	6171,02	49,27	53,58	54,74	57,27	58,78	58,93	8,51	69,34	0	590	590	1,66	
45M	6290,02	44	52,31	49,01	52,88	50,37	49,4	3,53	185,3	0	511,15	590	0,4	48,2
45V	6295,01	43,61	49	48,63	51,07	49,98	49,01	6,36	92,71	0	590	590	0,89	48,2
44	6382,01	40,26	48,68	44,02	48,86	49,14	44,57	1,87	320,17	0	565,71	590	0,23	
43	6426,01	39,65	48,42	45,53	48,75	48,53	44,66	2,69	240,48	0	450,75	590	0,33	
42	6448,02	38,19	48,41	41,94	48,53	47,07	45,2	1,5	406,33	0	573,67	590	0,16	
41M	6481,02	37,08	48,12	43,99	48,41	47,3	44,79	2,46	253,3	0	482,59	590	0,28	44,75
41V	6486,01	36,98	43,89	43,89	45,86	47,2	44,69	6,22	94,8	0	590	590	1	44,75
40	6793,01	29,9	33,92	34,96	37,5	34,06	50	8,38	70,4	0	590	590	1,46	
39	6941,01	26,44	33,06	31,1	33,57	30,73	29,88	3,3	194,7	0	499,91	590	0,42	
38M	7214,01	24,98	32,87	29,85	33,27	29,95	30,37	2,98	225,97	0	473,01	590	0,36	29,19
38V	7219,01	24,95	29,82	29,82	31,92	29,92	30,34	6,43	91,76	0	590	590	1	29,19
37	7273,01	24,29	26,93	27,93	30,3	29,8	30,63	8,14	72,49	0	590	590	1,82	
36M	7378,01	22,69	28,25	26,56	28,79	27,62	27,56	3,36	201,25	0	546,19	590	0,49	27,56
36V	7382,01	22,63	26,95	26,5	28,19	27,57	27,51	4,93	119,76	0	590	590	0,82	27,56
35	7480,01	20,83	26,57	26,49	27,75	25,38	27,29	4,96	145,56	0	595,5	640	0,75	
34M	7643,01	18,74	24,09	24,47	26,53	25,32	25,32	6,92	92,48	0	640	640	1,16	44,65
34V	7655,01	18,69	23,96	24,42	26,51	25,27	25,27	7,06	90,61	0	640	640	1,19	44,65
33M	7685,01	18,67	25,09	22,48	25,68	24,73	24,47	3,42	196,45	0	633,78	640	0,44	24,45
33V	7690,01	18,66	23,67	22,47	24,69	24,72	24,46	4,47	143,02	0	640	640	0,65	24,45
32	7716,01	18,65	23,66	22,31	24,59	24,5	25	4,28	149,58	0	640	640	0,62	
31	7762,01	18,5	23,4	22,31	24,45	24,44	25	4,54	141,05	0	640	640	0,67	

Sezione	Distanza progressiva	Fondo alveo	Pelo libero [m]	Quota critica [m]	Carico totale [m]	Sponda sinistra [m]	Sponda destra [m]	v media [m ² /s]	Sezione utile [m ³]	Larghezza sezione [m]	Qmax [m ³ /s]	Qtot [m ³ /s]	N° Froude	Quota max intradosso [m]
30	7826,01	18,4	23,36	21,95	24,21	23,83	25	4,09	156,46	0	640	640	0,6	
29	7879	18,2	23,53	21,33	24	23,6	25	3,03	210,98	0	640	640	0,43	
28	7901,01	17,9	23,61	20,84	23,94	23,26	25	2,51	258,17	0	637,82	640	0,34	
27M	8062,01	15,91	23,11	20,67	23,74	22,63	23,84	3,62	183,87	0	567,79	640	0,45	24,65
27V	8067,01	15,89	21,77	20,65	23,09	22,61	23,81	5,1	125,55	0	640	640	0,71	24,65
26	8089,01	15,75	21,71	19,56	22,39	21,5	22	3,66	174,64	0	640	640	0,51	
25	8177	15,4	21,67	19,38	22,22	19	21,8	3,3	194,22	0	640	640	0,45	
24M	8284	14,17	21,57	18,51	22,06	22,34	23,28	3,09	207,04	0	640	640	0,39	22
24V	8292	14,12	19,72	18,46	20,66	24,29	23,23	4,29	149,09	0	640	640	0,63	22
23	8476	12,81	17,97	17,97	19,33	17,16	20,63	5,53	160,98	0	598,66	805	0,91	
22	8656,01	11,85	17,04	16,31	17,61	15,5	18,58	3,61	263,55	0	657,71	805	0,54	
21	8774,01	11,12	17,05	15,89	17,35	14,15	16,21	2,79	396,8	0	530,94	805	0,39	
20M	8812,01	10,72	16,51	14,97	17,26	17,34	16,17	3,83	211,9	0	804,08	805	0,56	21
20V	8824,01	10,66	16,29	14,92	17,09	17,28	16,11	3,97	203,28	0	804,83	805	0,59	21
19M	8843,01	10,56	16,27	14,71	17,05	17,39	15,83	3,92	207,13	0	803,98	805	0,57	21
19V	8849,01	10,53	13,83	14,68	16,83	17,36	15,8	7,67	104,94	0	805	805	1,53	21
18	8918,01	10,21	14,53	14,53	16,28	15,5	15,79	5,85	137,65	0	805	805	1	
17	8973,01	9,74	15,35	14,5	15,52	15,09	15,22	2,07	453,39	0	329,58	805	0,32	
16M	9080,01	8,82	13,54	12,7	13,73	13,36	13,44	2,29	496,46	0	428,03	805	0,37	12,66
16V	9084,01	8,79	13,52	12,67	13,71	13,33	13,41	2,3	494,95	0	431,47	805	0,37	12,66
15	9234,01	8,07	13,45	11,87	13,6	12,71	13,09	2,04	535,28	0	430,29	805	0,3	
14	9394	6,58	11,2	10,54	12,28	12,71	11,58	4,61	174,5	0	805	805	0,76	
13M	9546	5,86	11,12	9,49	11,33	10,73	10,93	2,31	443,32	0	522,49	805	0,34	9,5
13V	9560	5,75	9,45	9,45	11	10,62	10,81	5,53	150,22	0	830	830	1	9,5
12M	9660	4,94	9,62	8,76	9,93	9,2	9,6	2,8	370,4	0	539,73	830	0,45	8,39
12V	9675	4,85	9,49	8,67	9,8	9,11	9,51	2,81	364,01	0	535,41	830	0,45	8,39
11	9814	4,1	9,1	7,99	9,59	8,66	9,26	3,34	310,88	0	683,29	830	0,52	
10	9949	3,69	8,5	7,6	9,3	8,39	8,65	4,15	246,44	0	747,28	830	0,64	
9	10079	2,76	8,47	6,64	8,95	7,82	7,82	3,19	302,56	0	759,81	850	0,46	
8M	10179	2,04	8,66	5,94	8,76	7,65	7,77	1,67	660,06	0	458,34	850	0,22	6,37
8V	10189	1,97	8,6	5,87	8,66	7,58	7,7	1,15	840,25	0	315,88	850	0,15	6,37