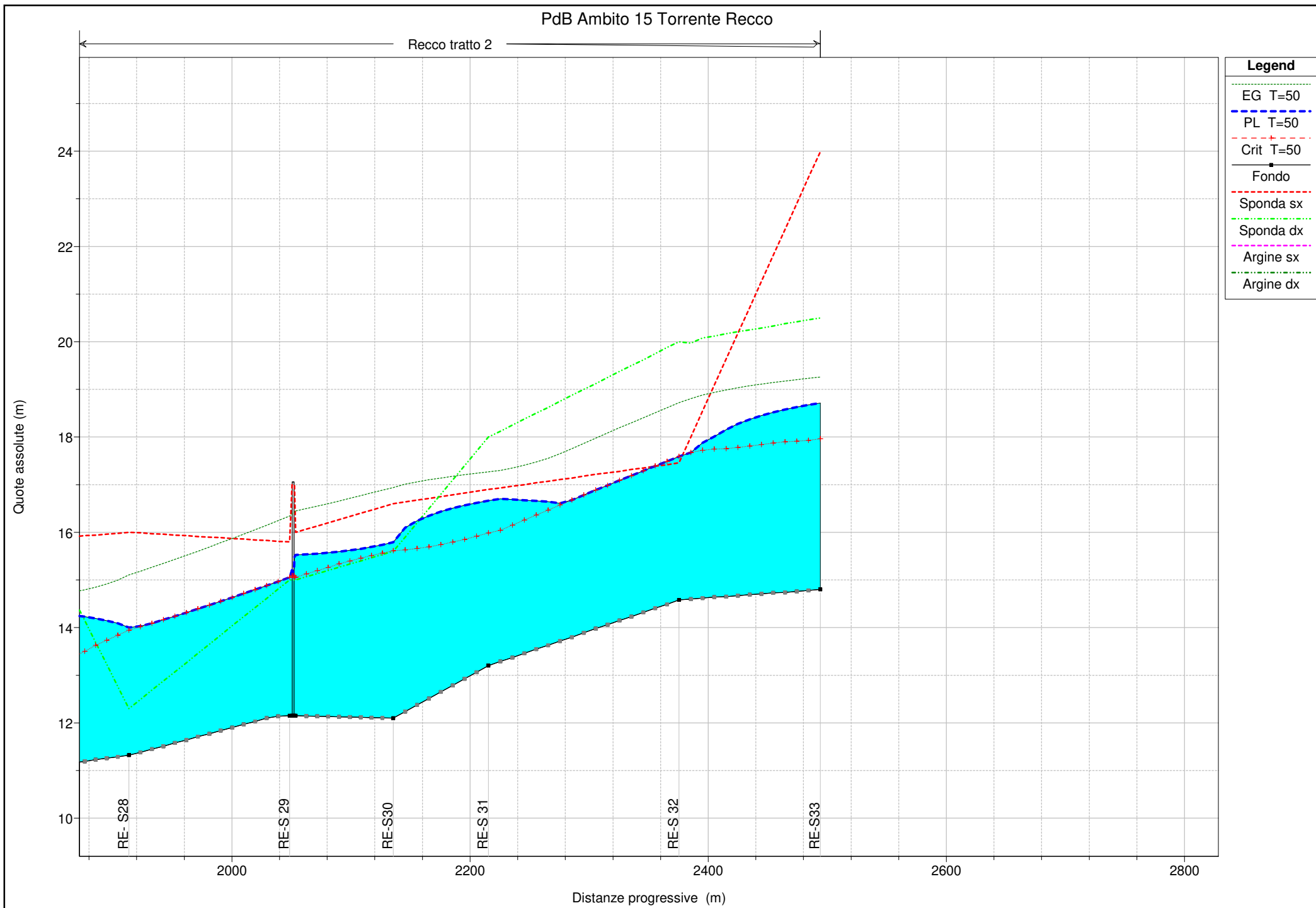


Torrente Recco

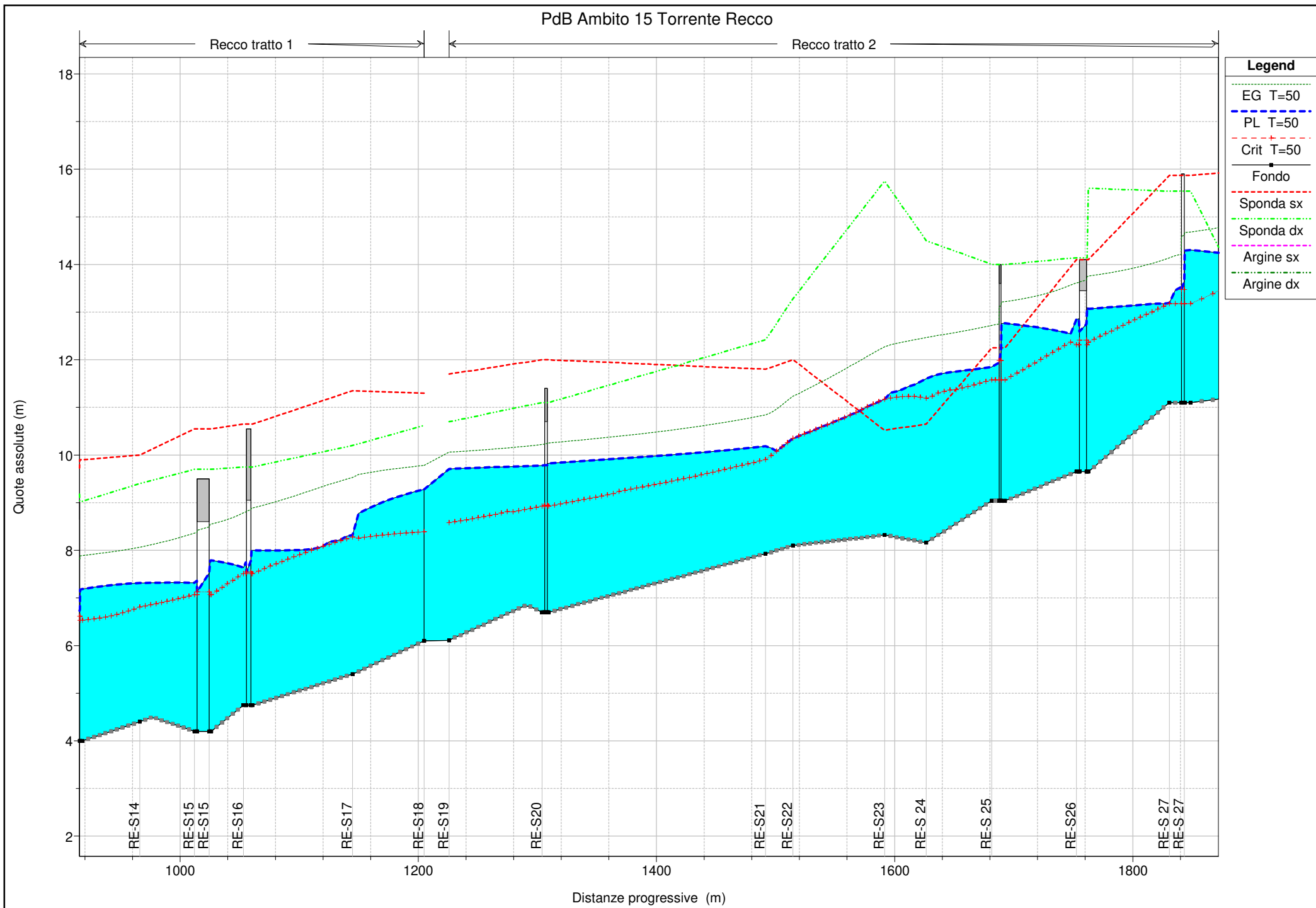
Tratto di valle - dalla sezione RE S33 alla RE S1

- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati



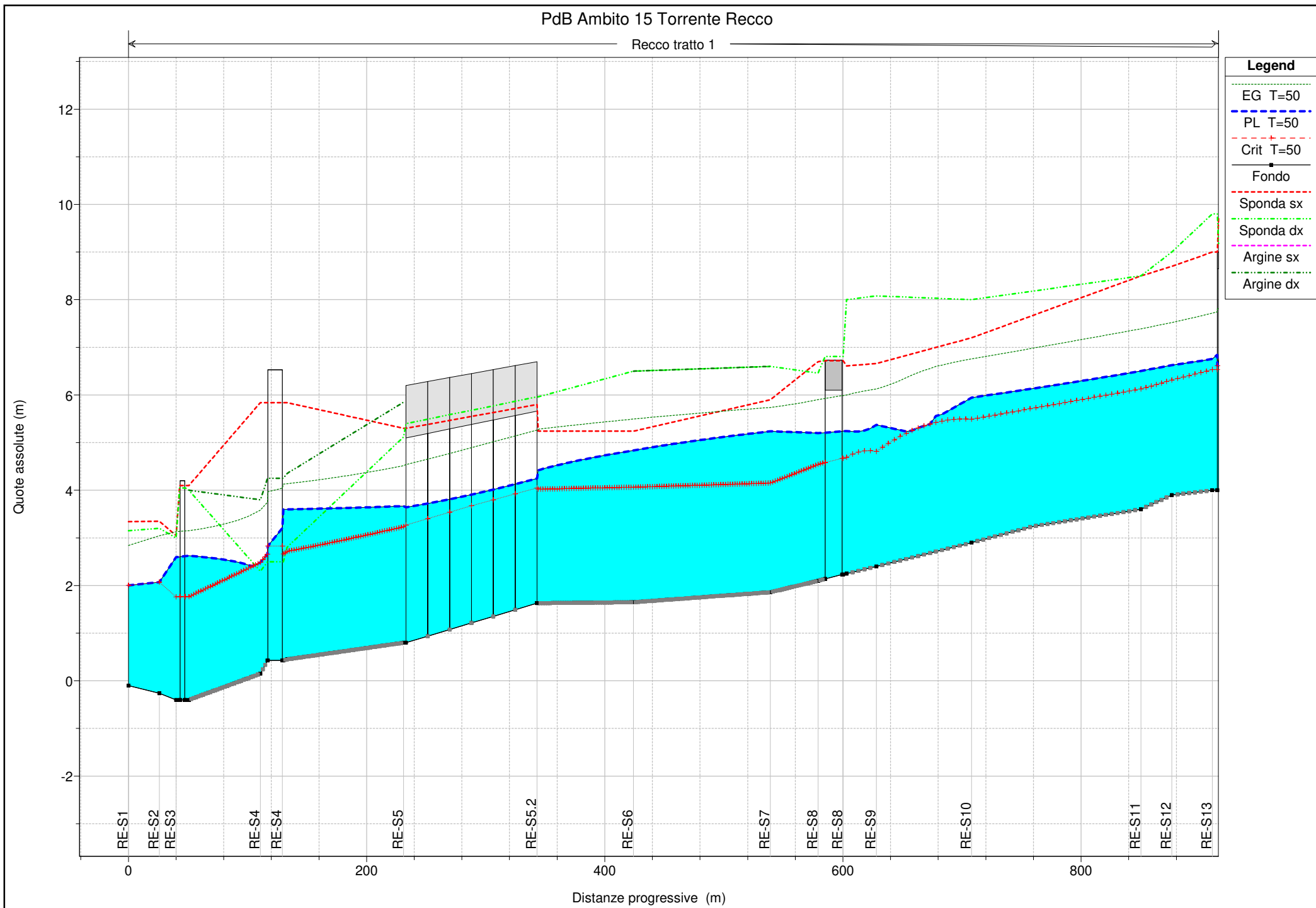
1 cm Horiz. = 40 m 1 cm Vert. = 1 m

Approvato con D.D.G. n. 4933 del 27-08-2020



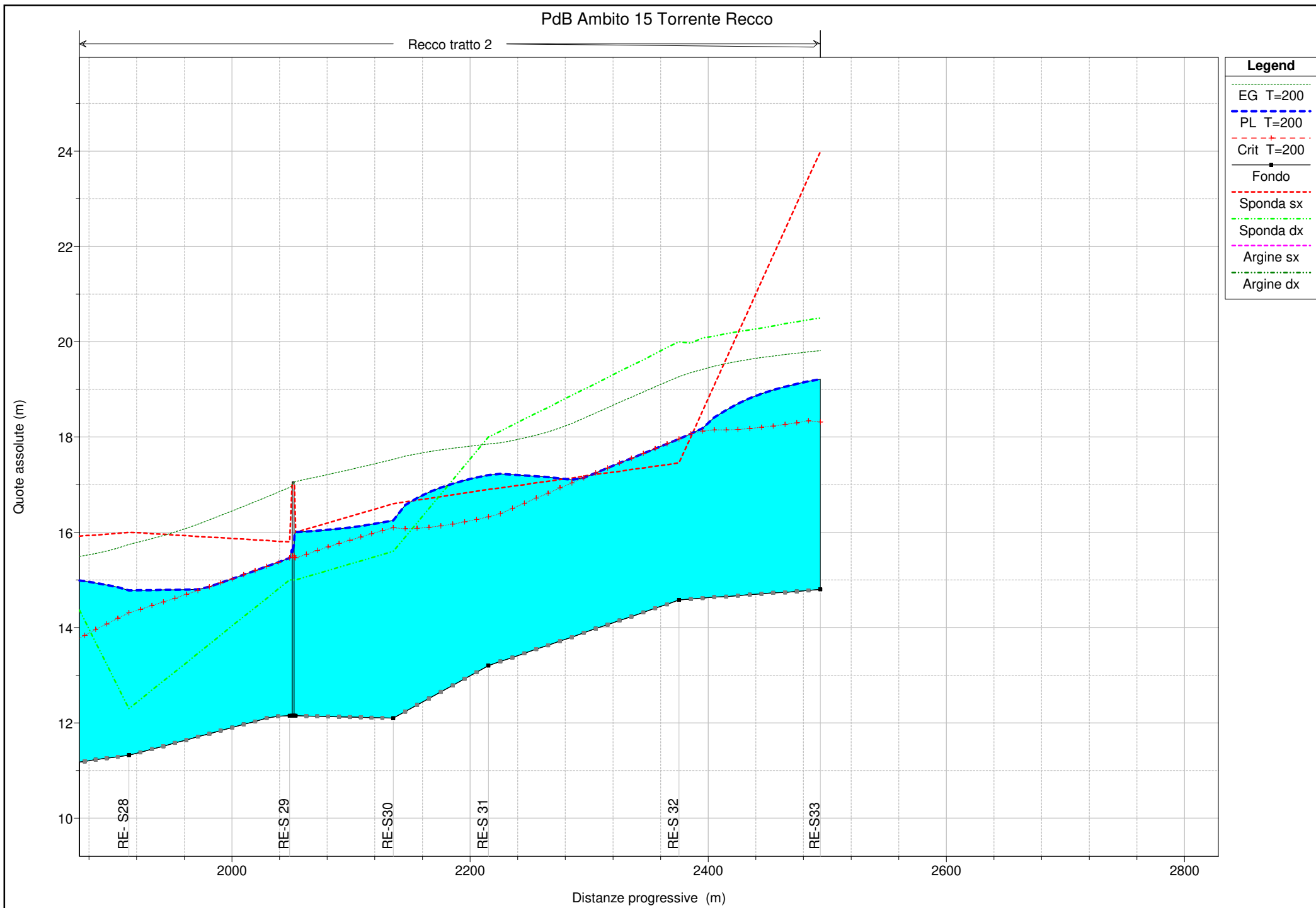
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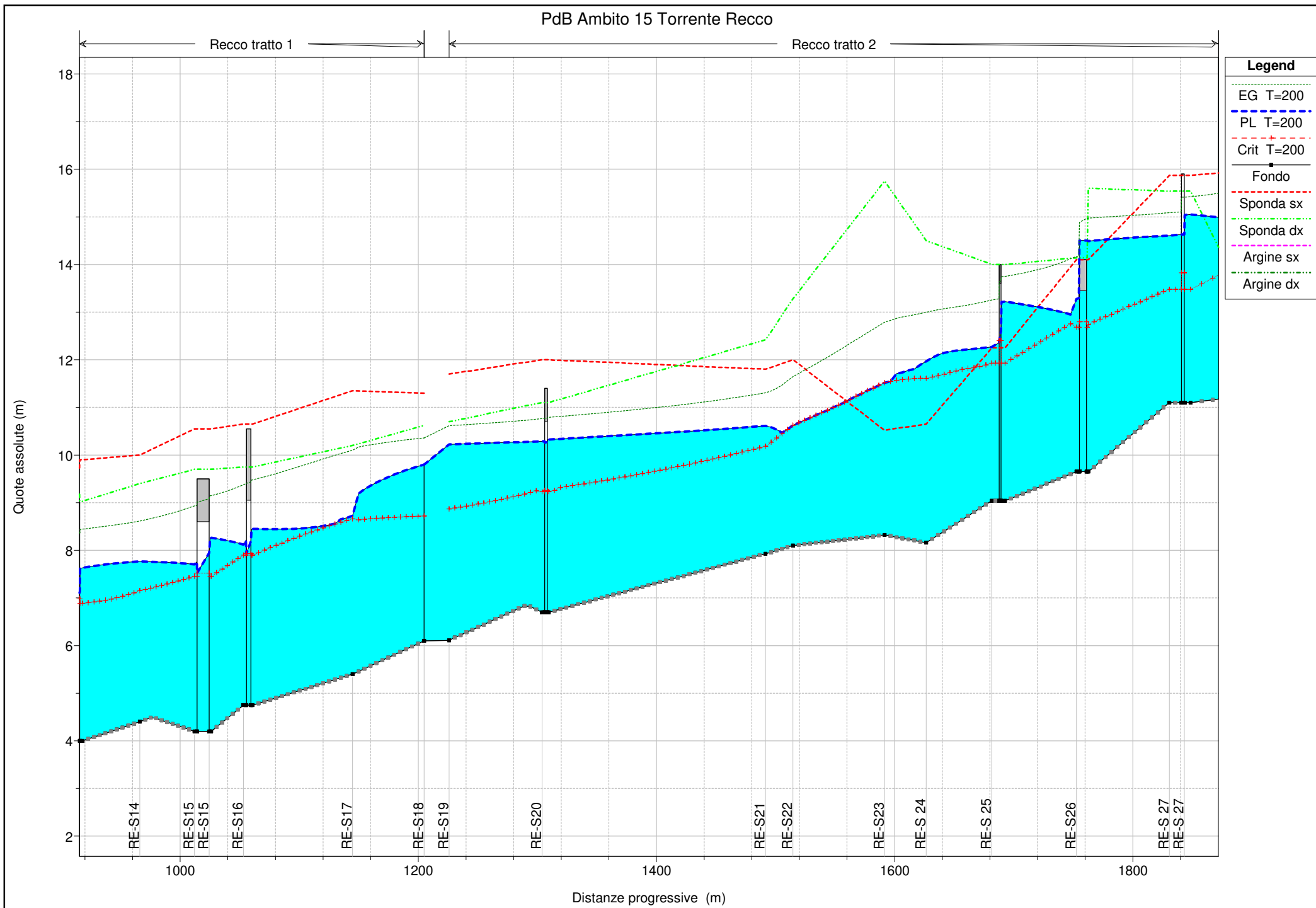
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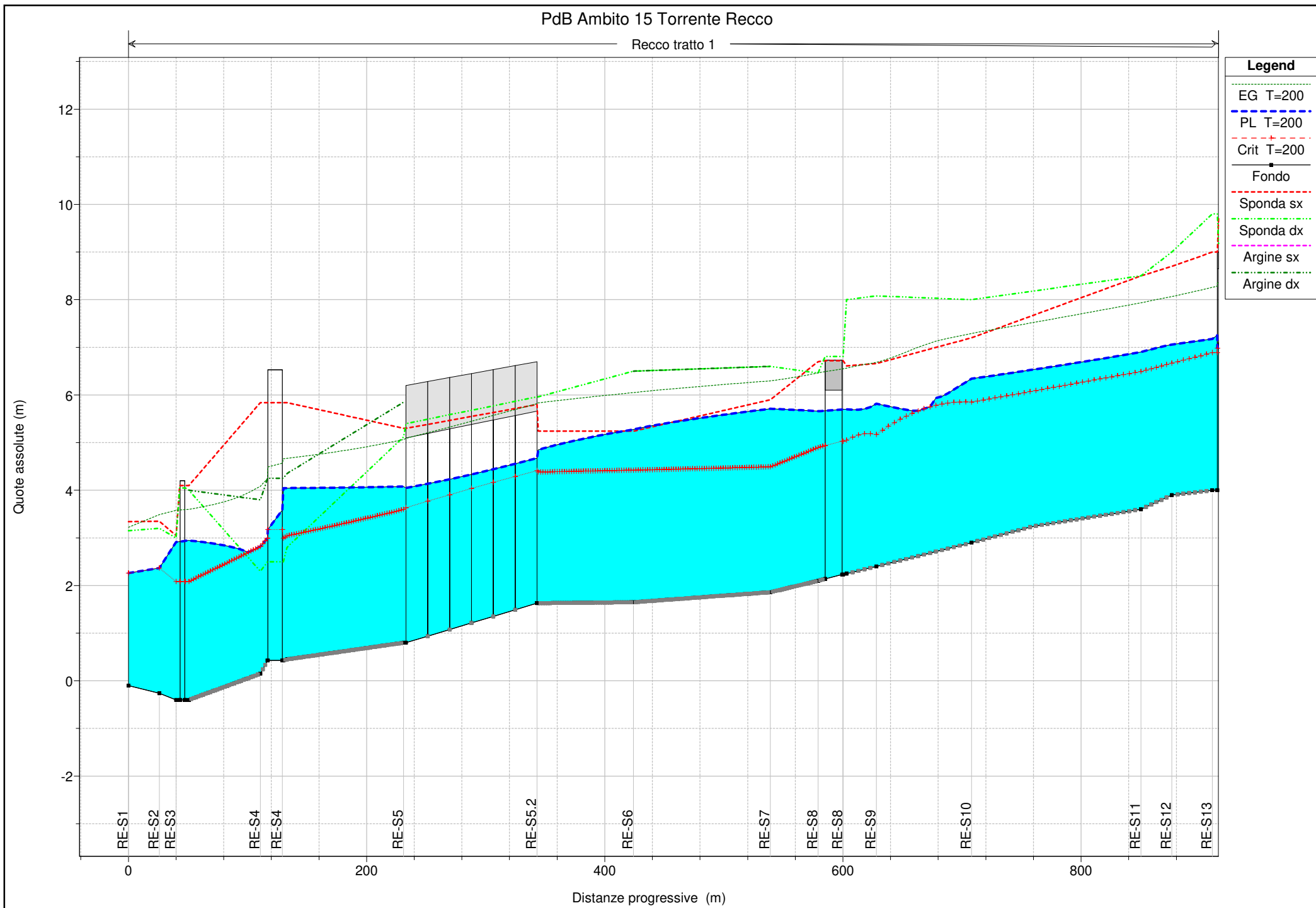


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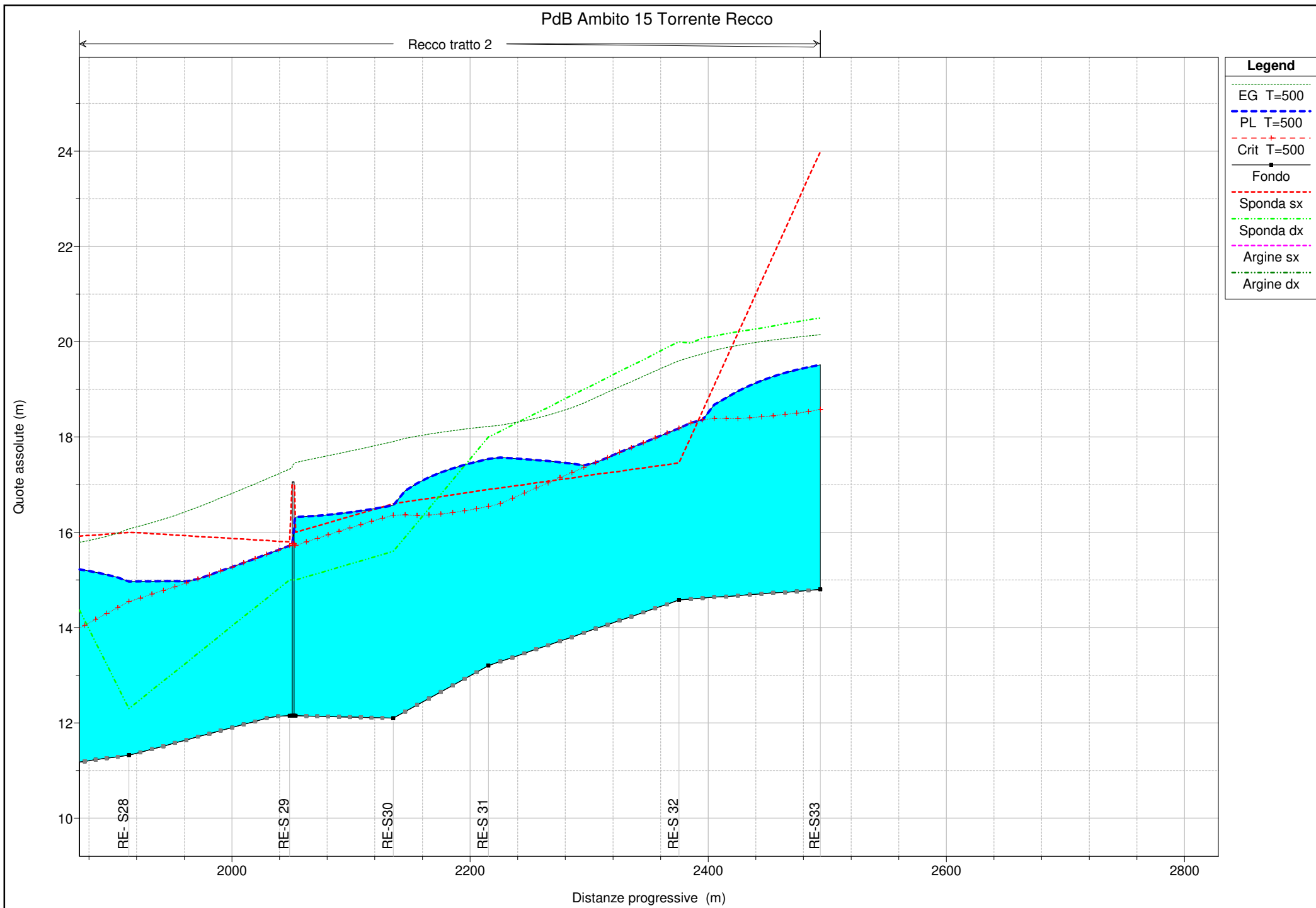






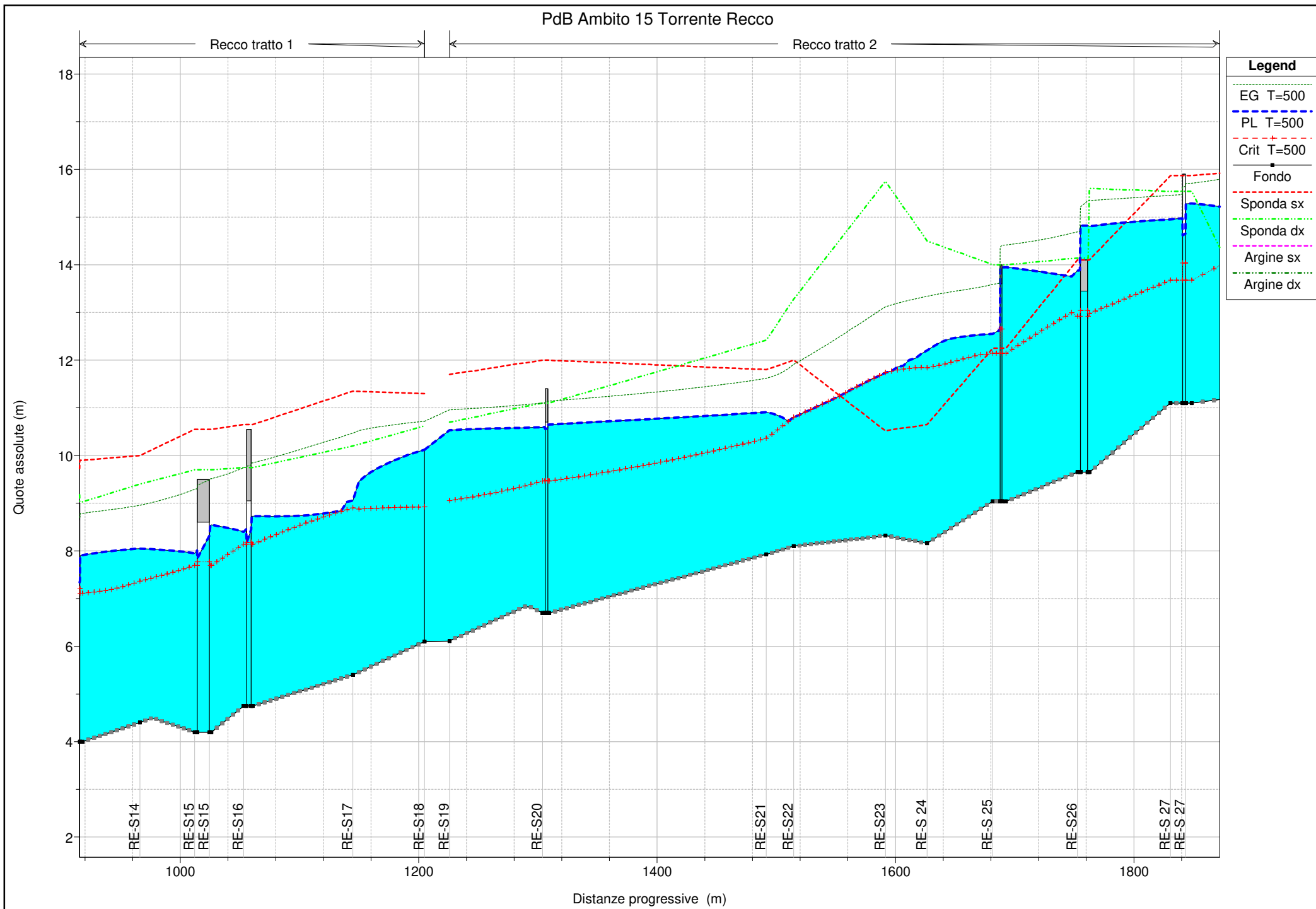
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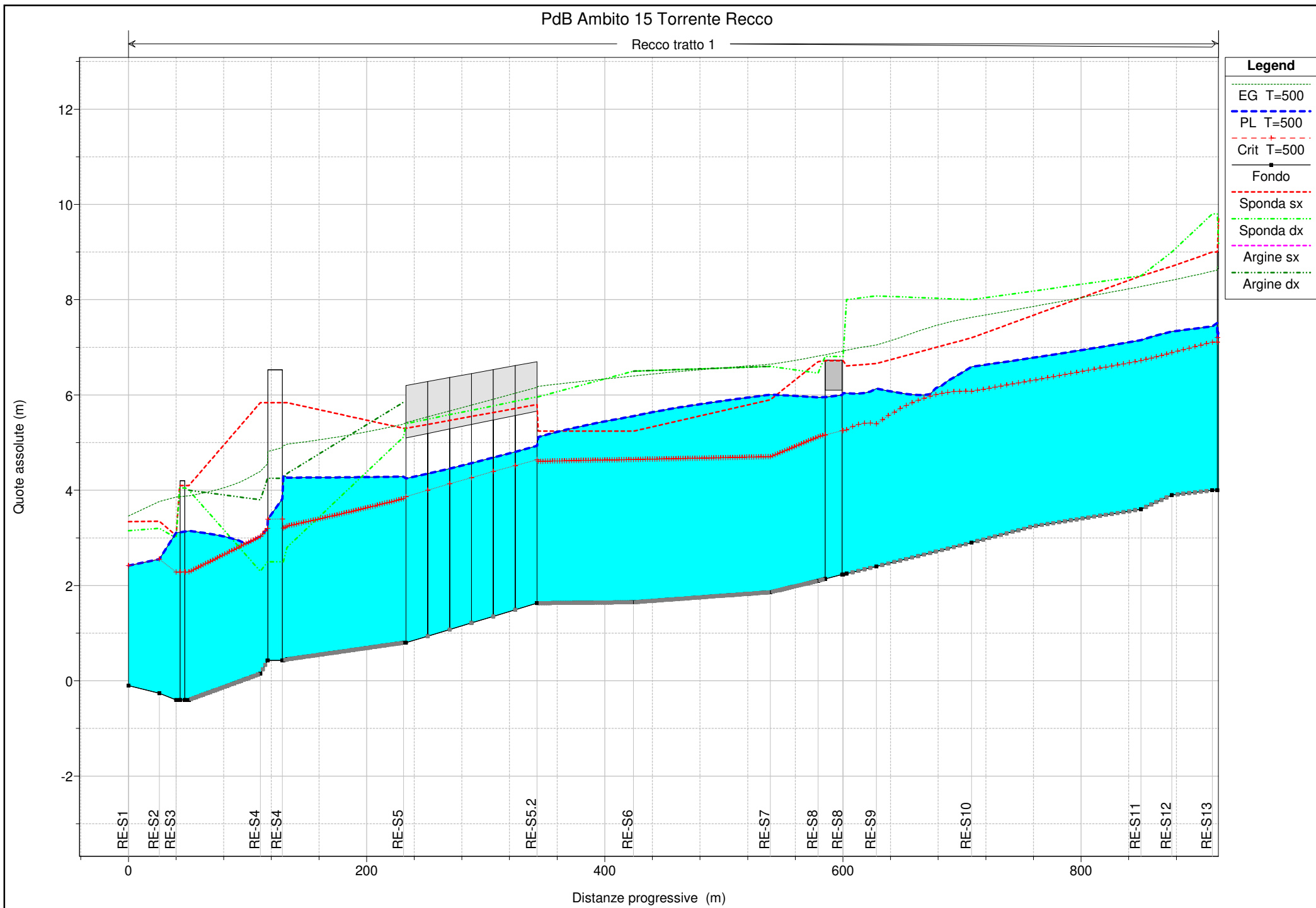
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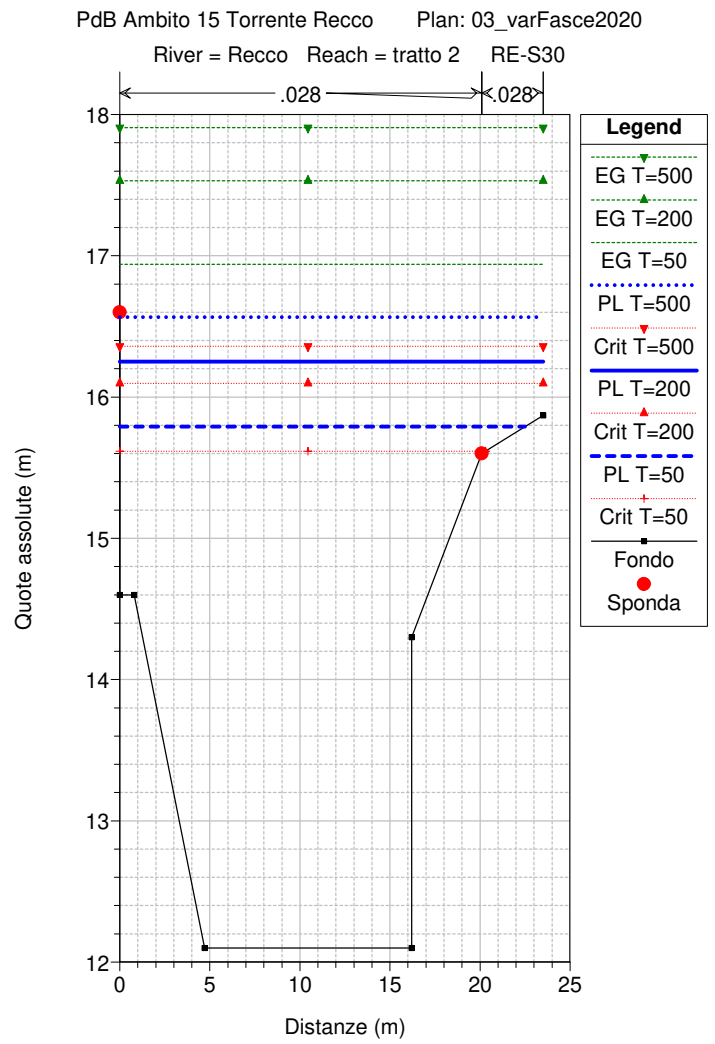
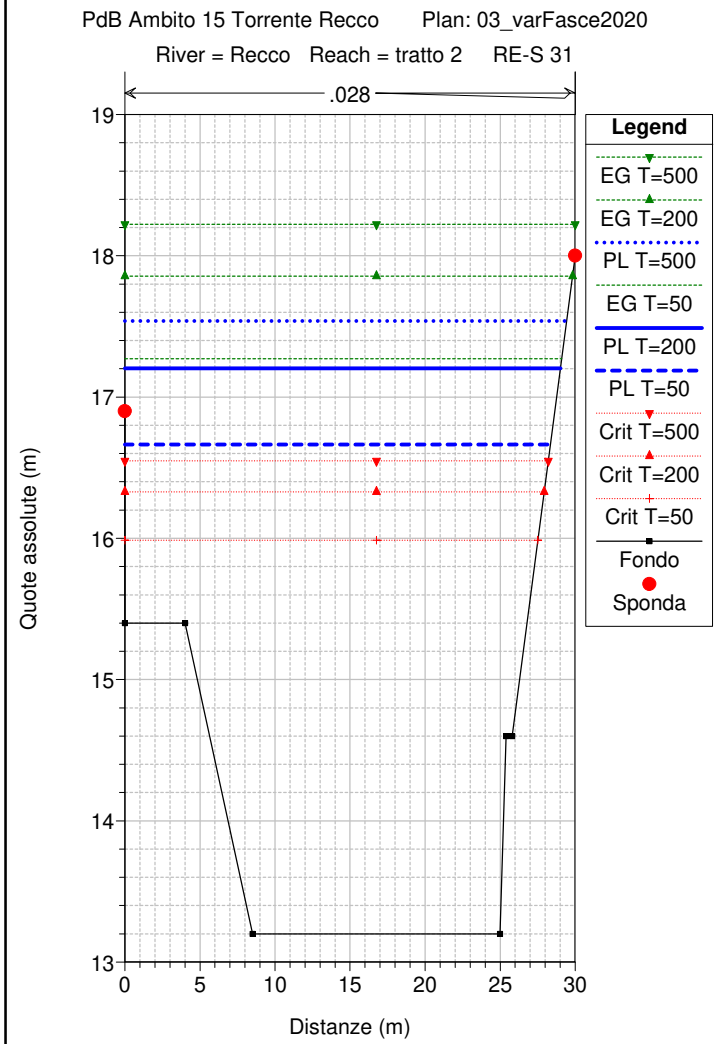
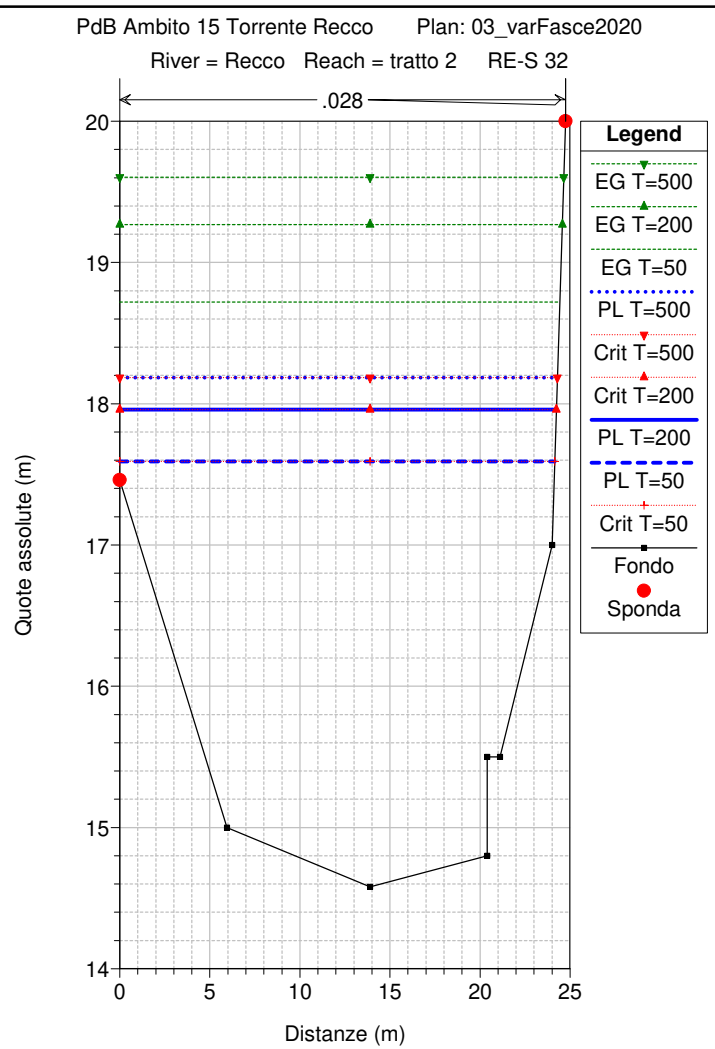
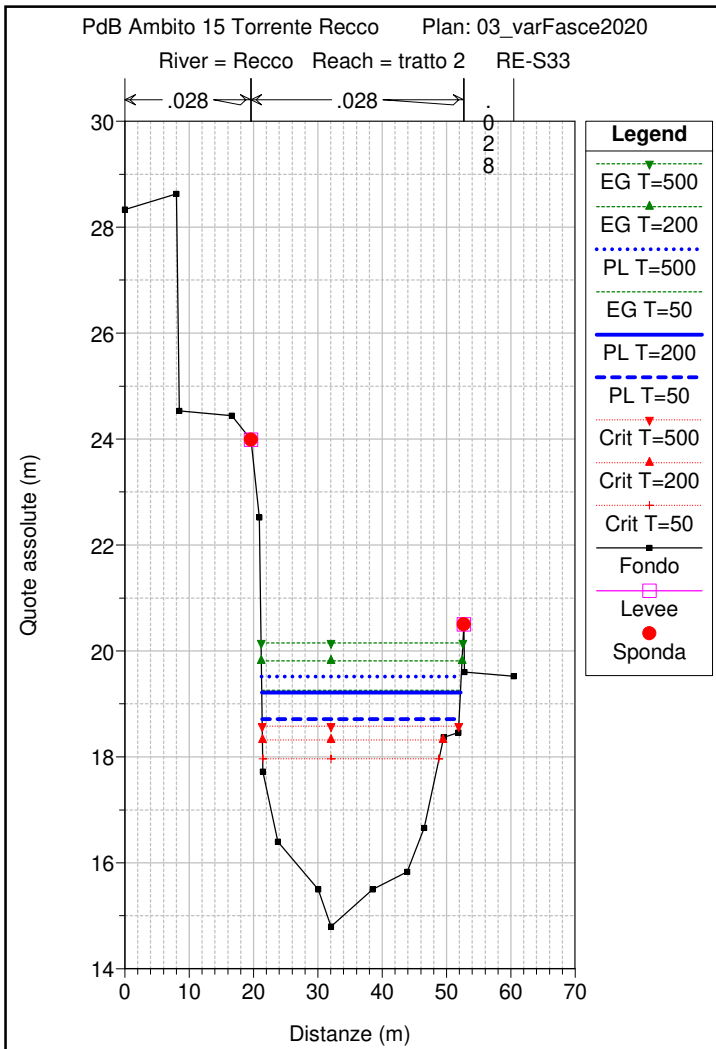
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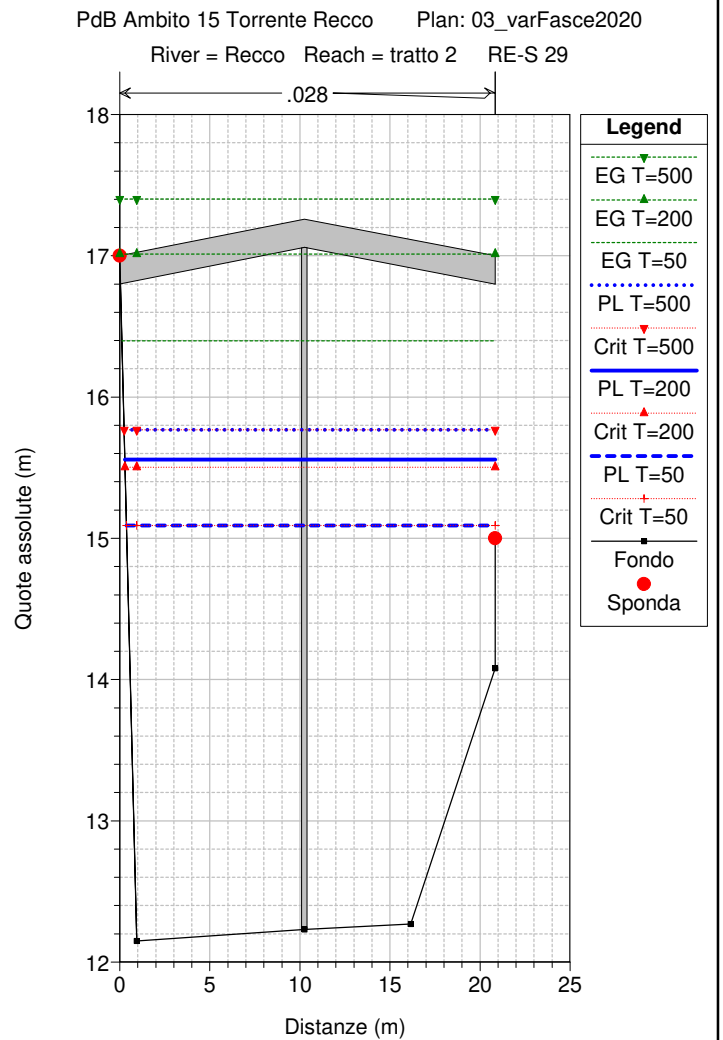
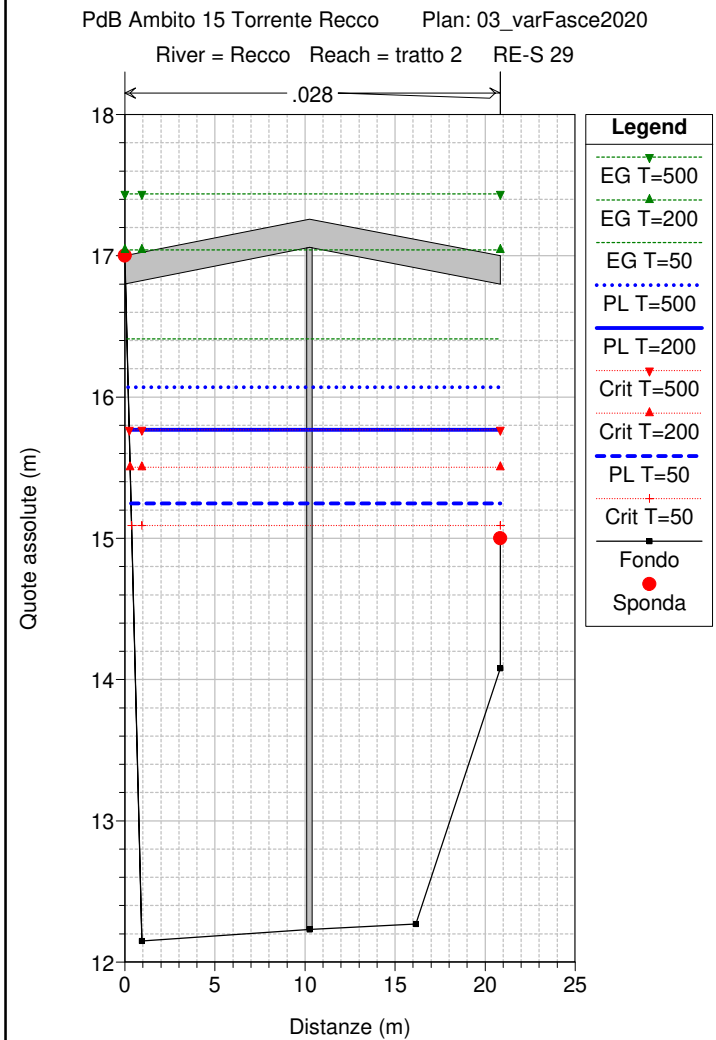
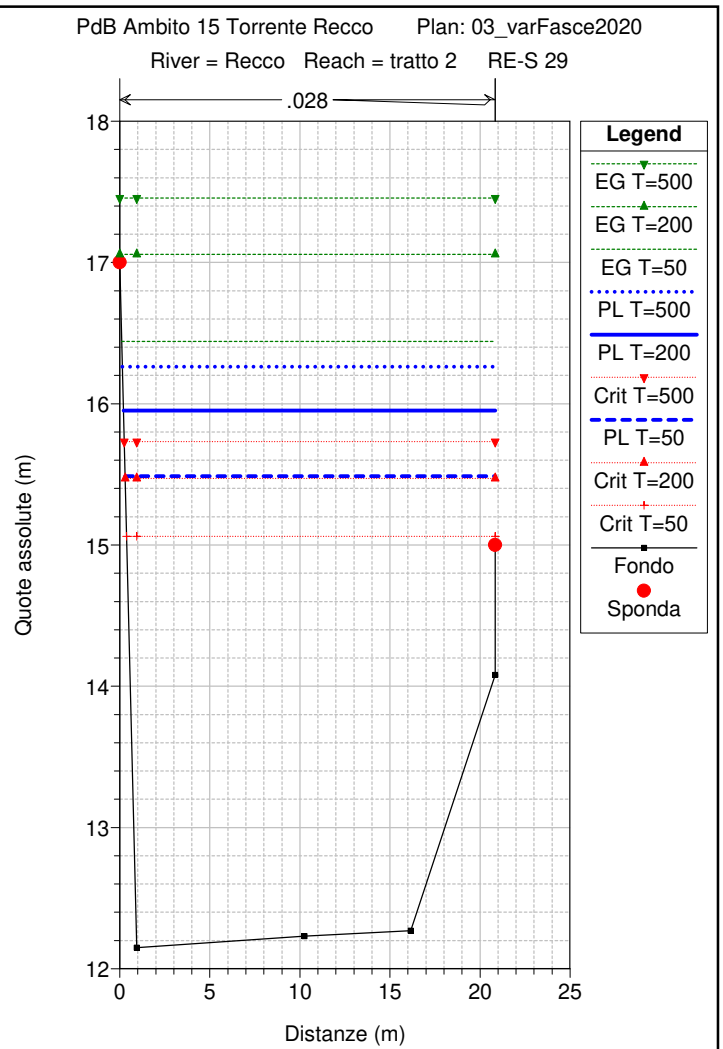
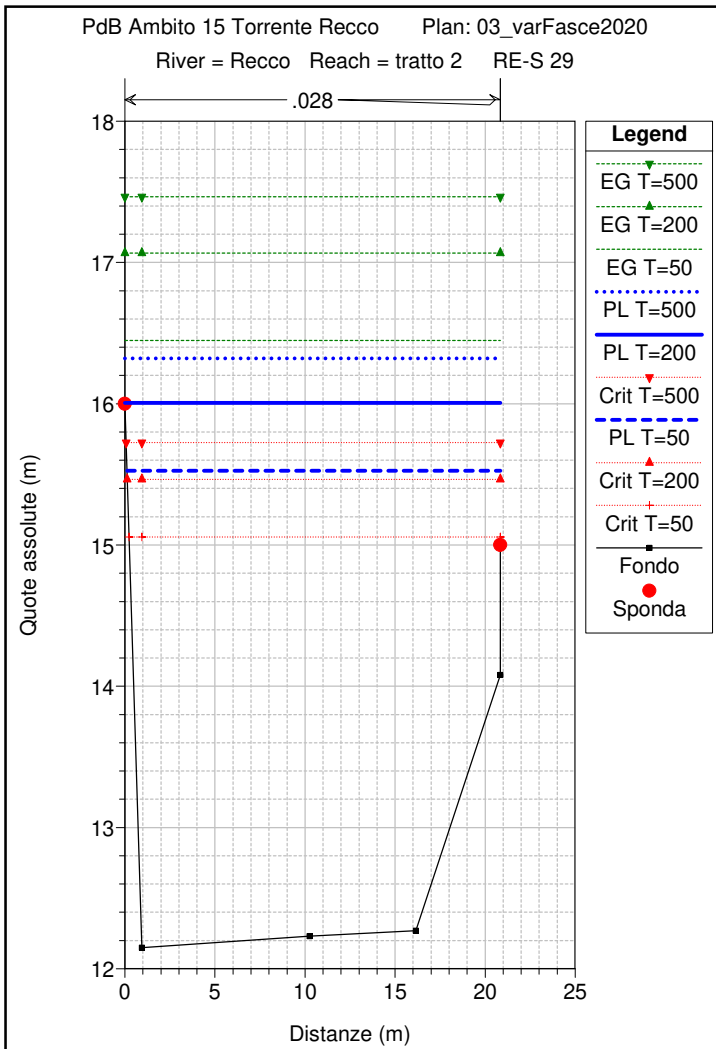


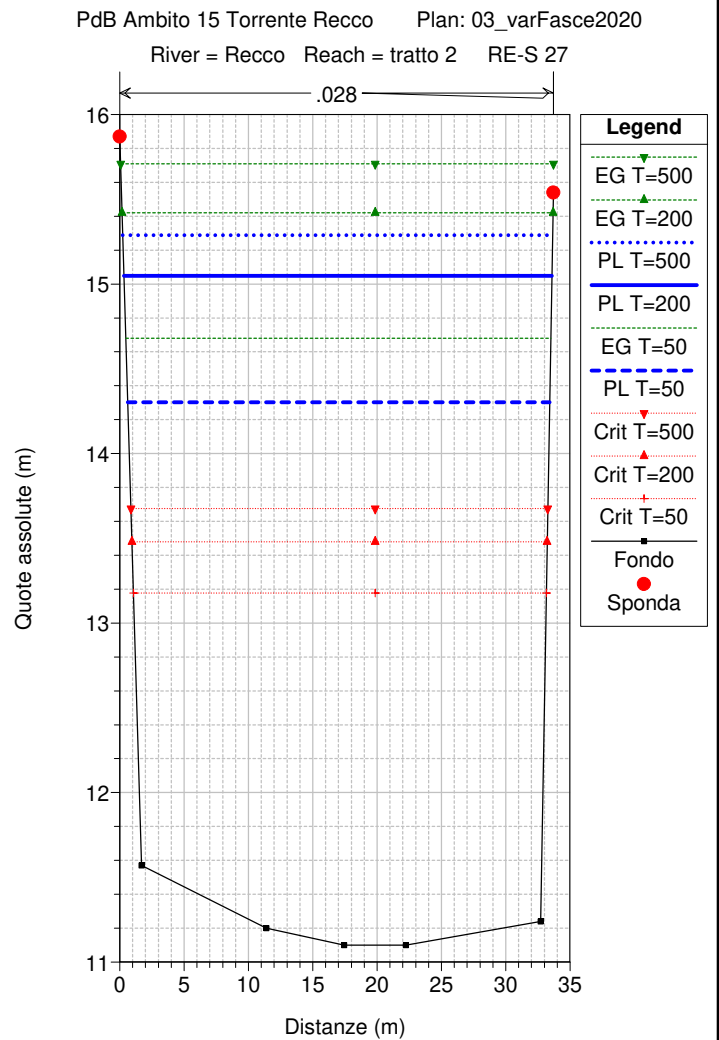
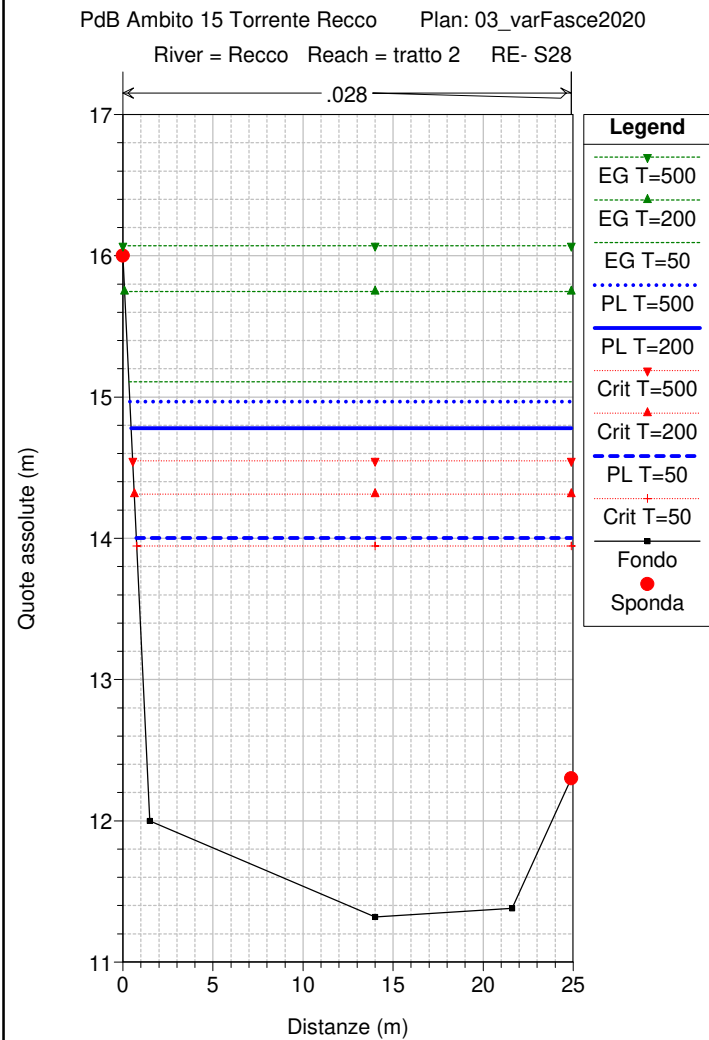
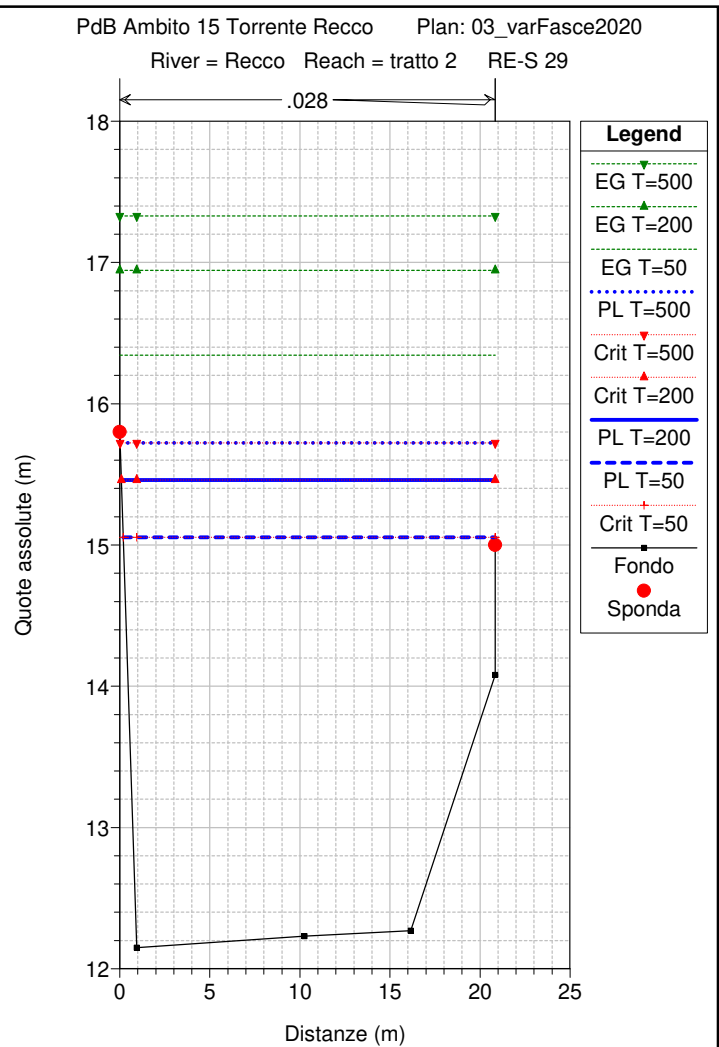
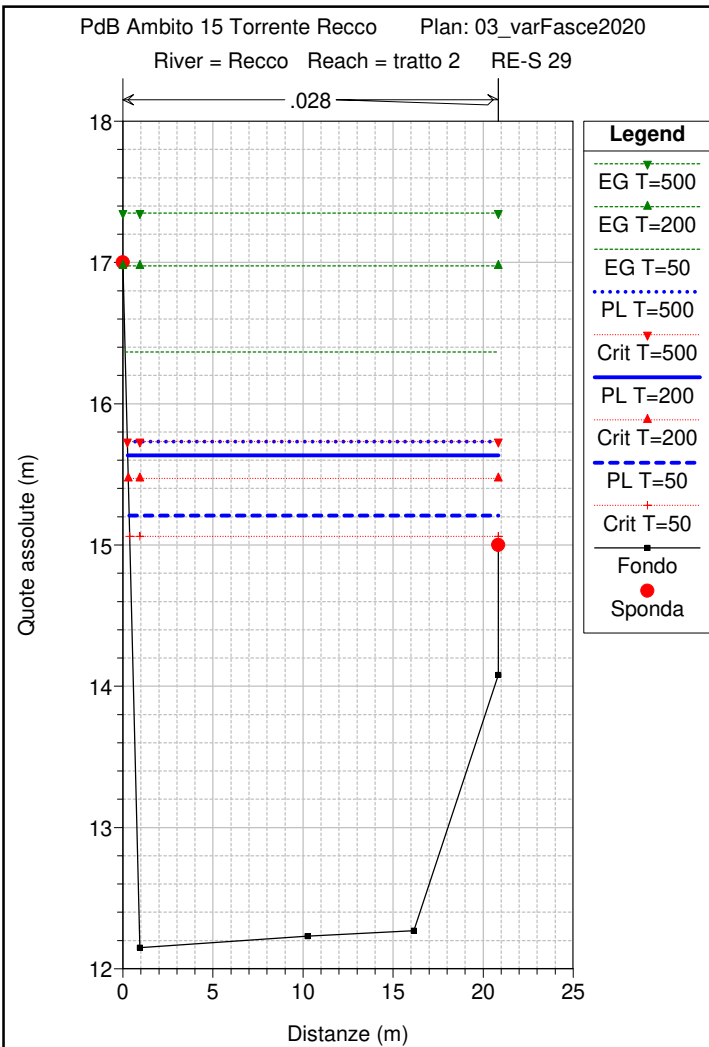
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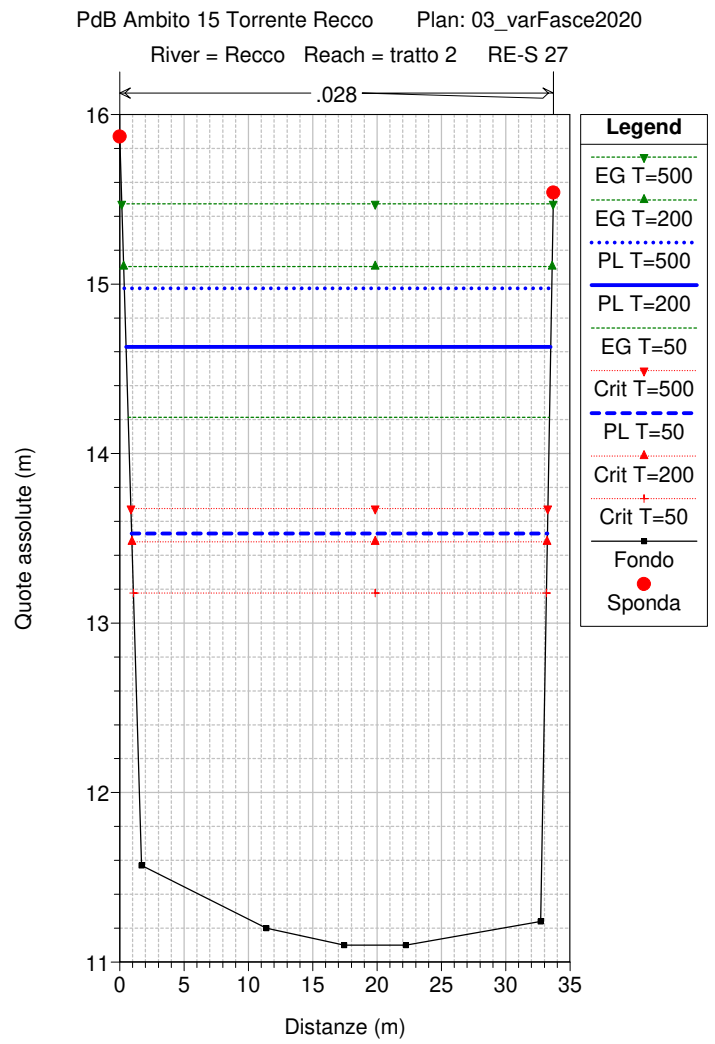
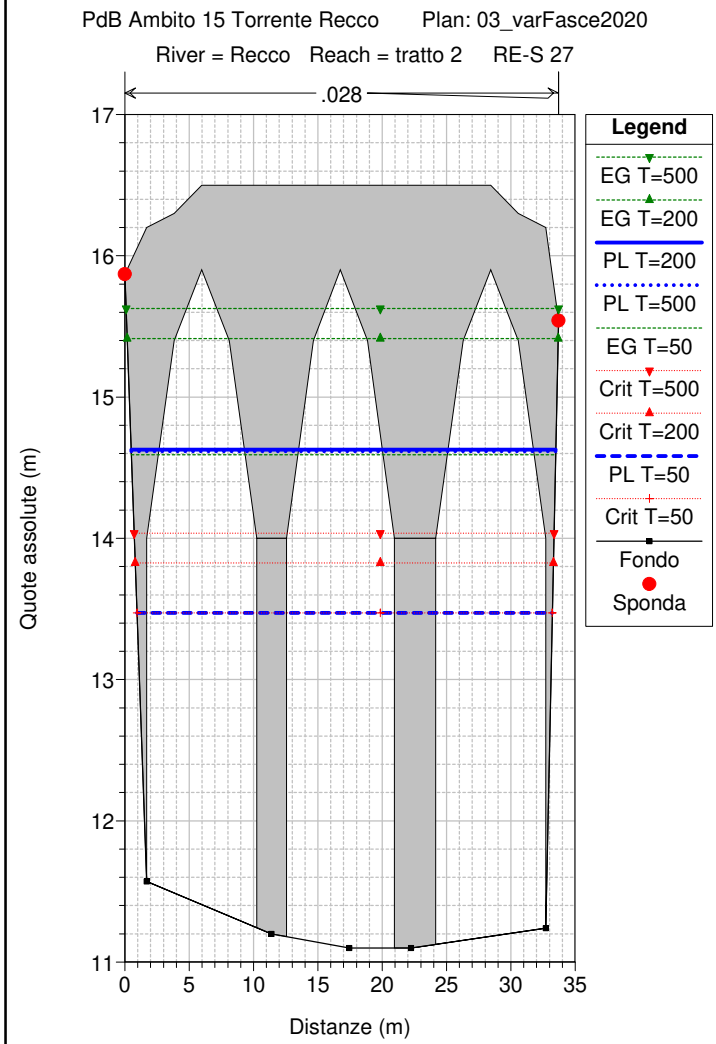
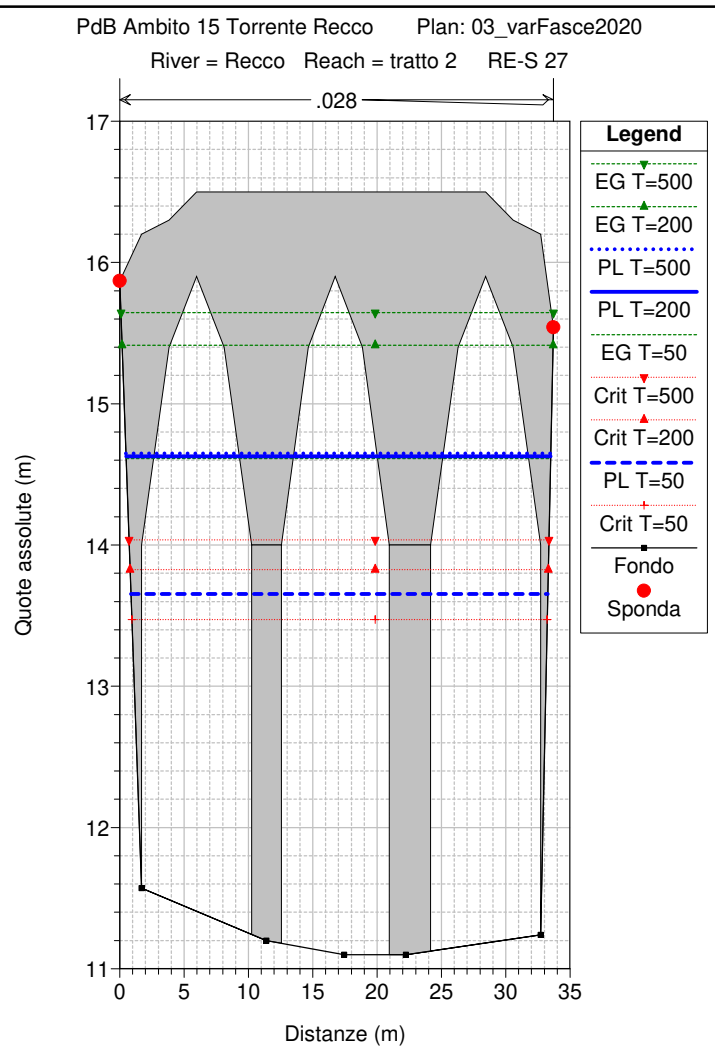
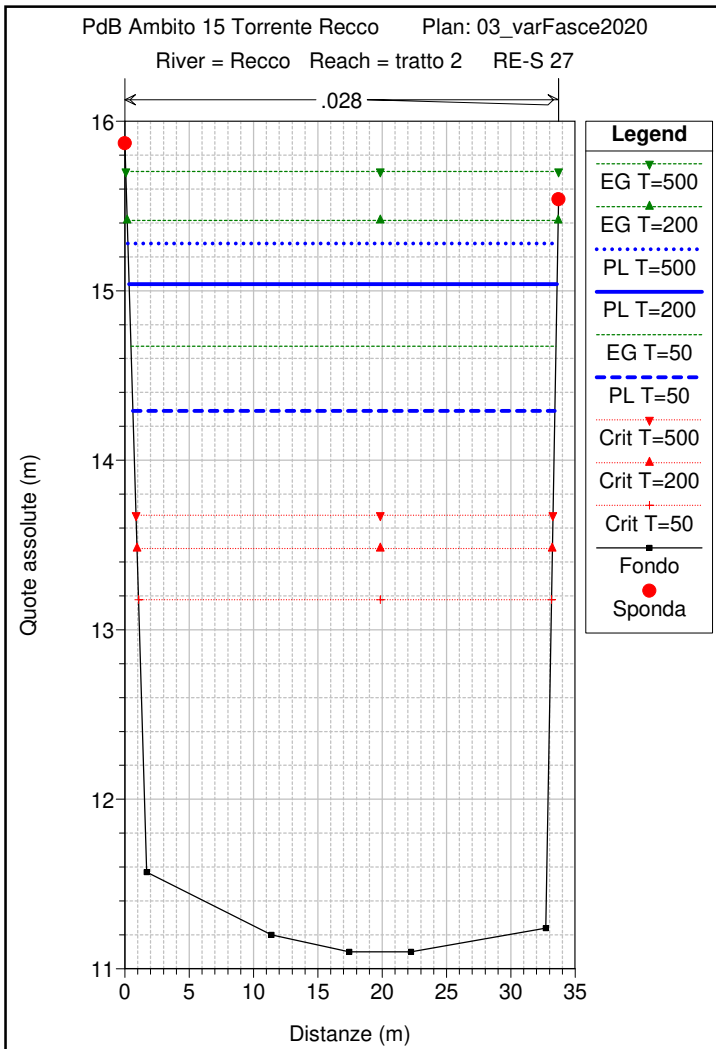
Approvato con D.D.G. n. 4933 del 27-08-2020

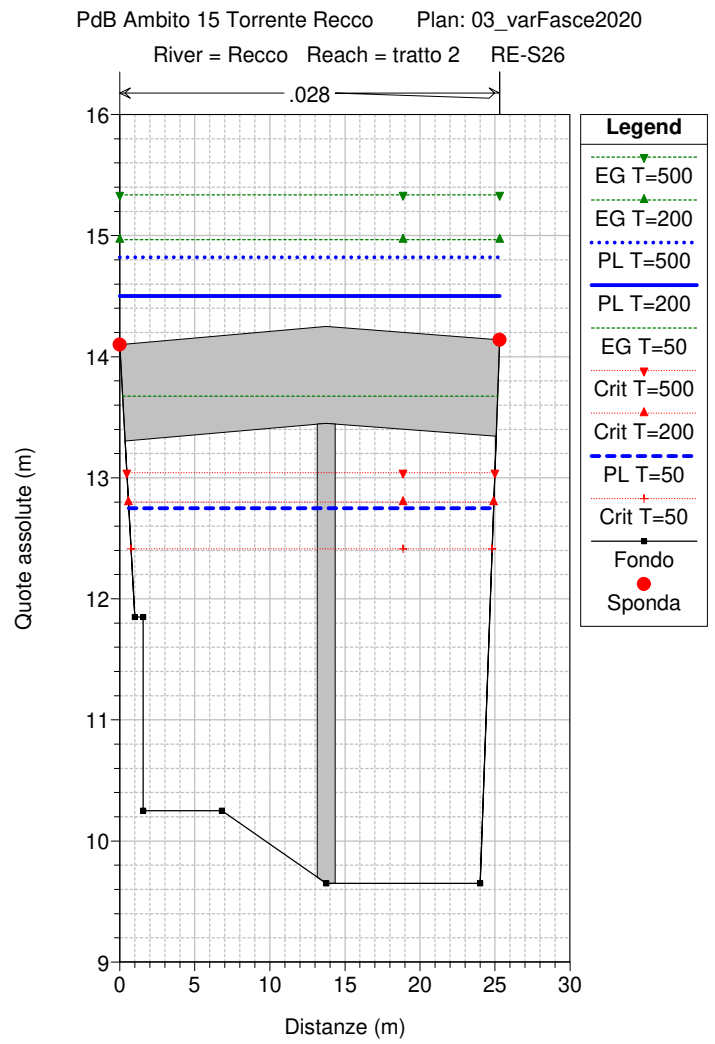
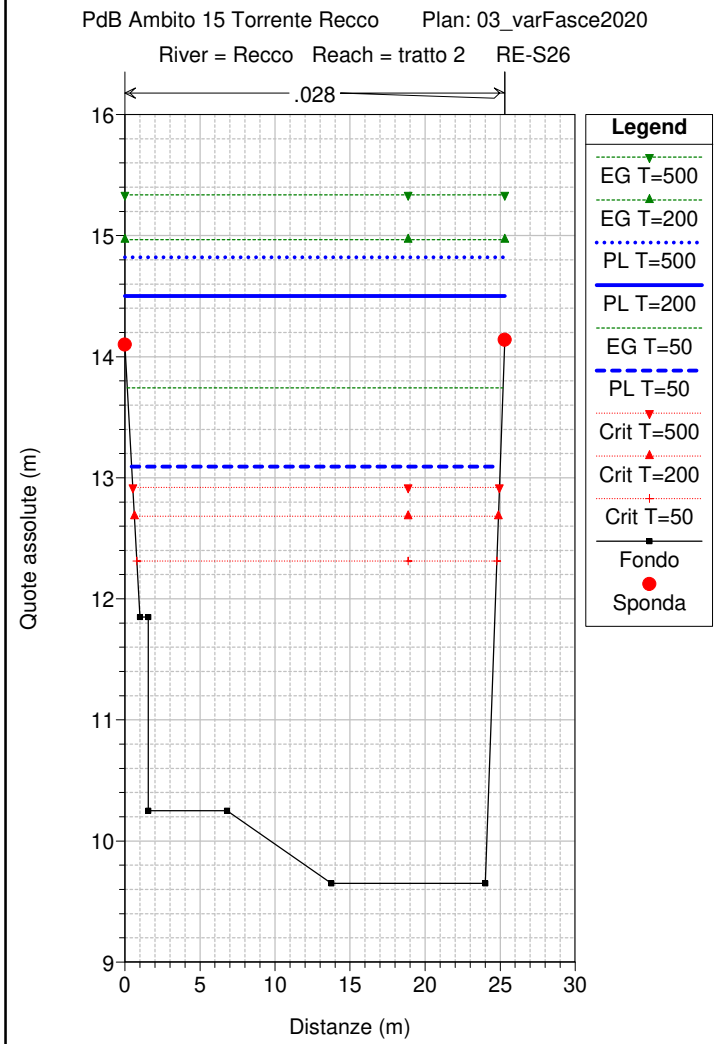
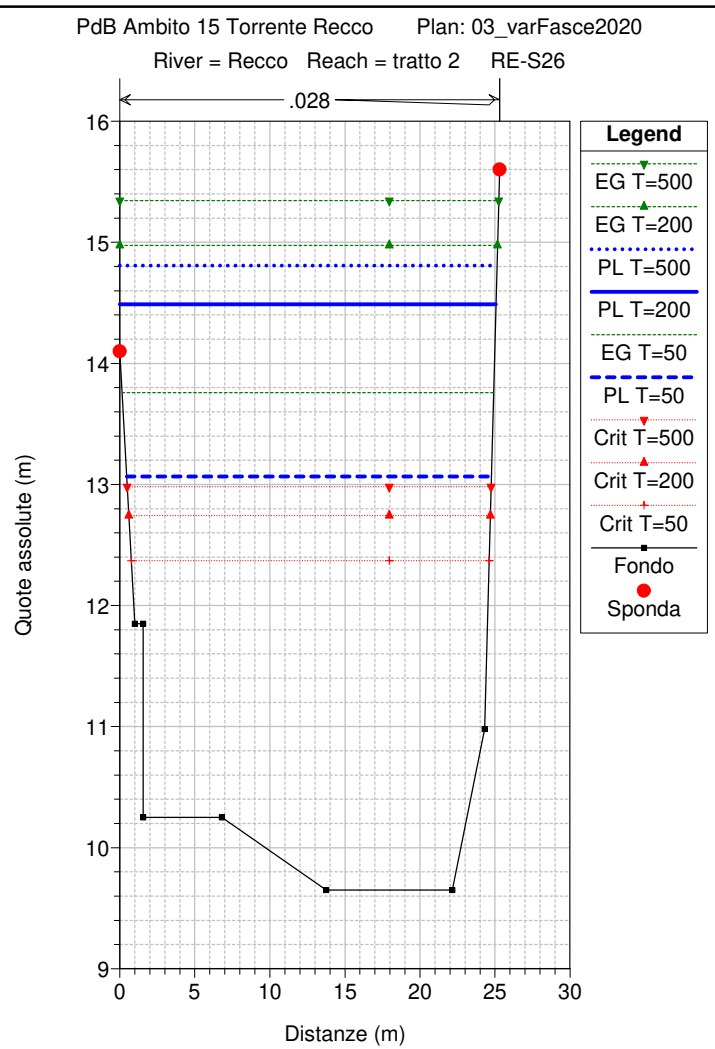
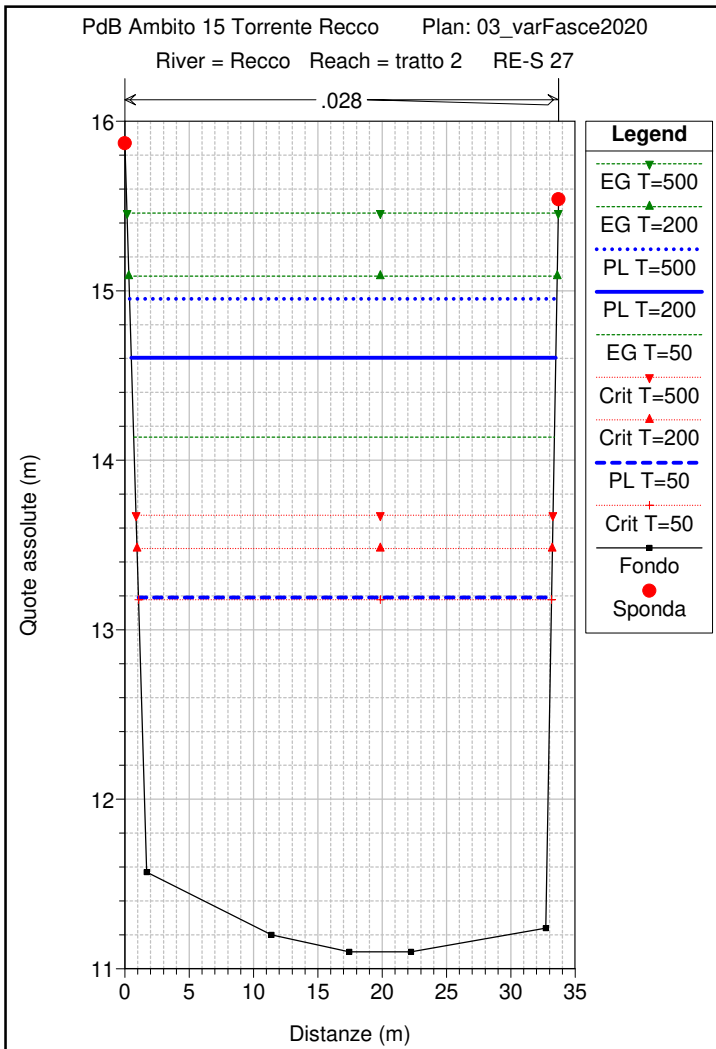


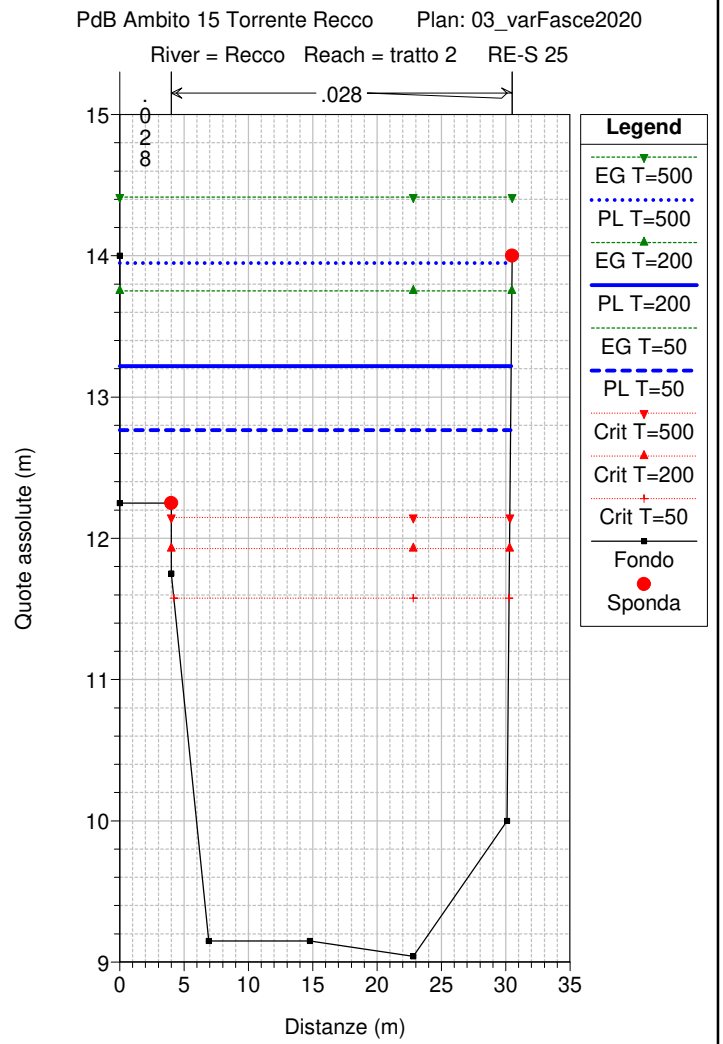
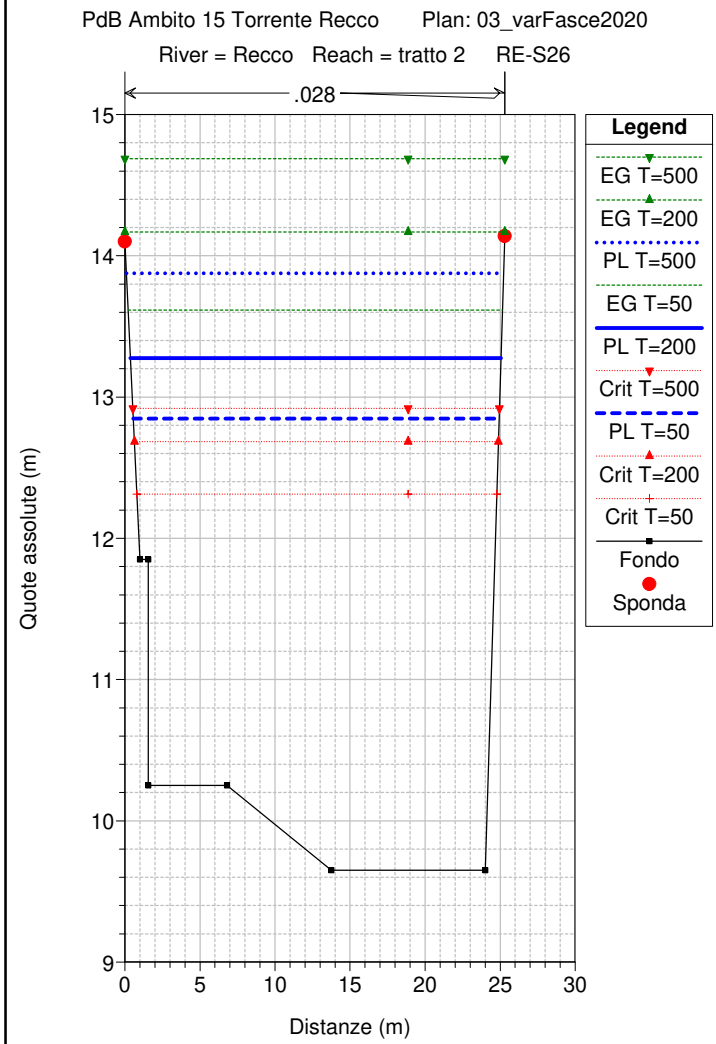
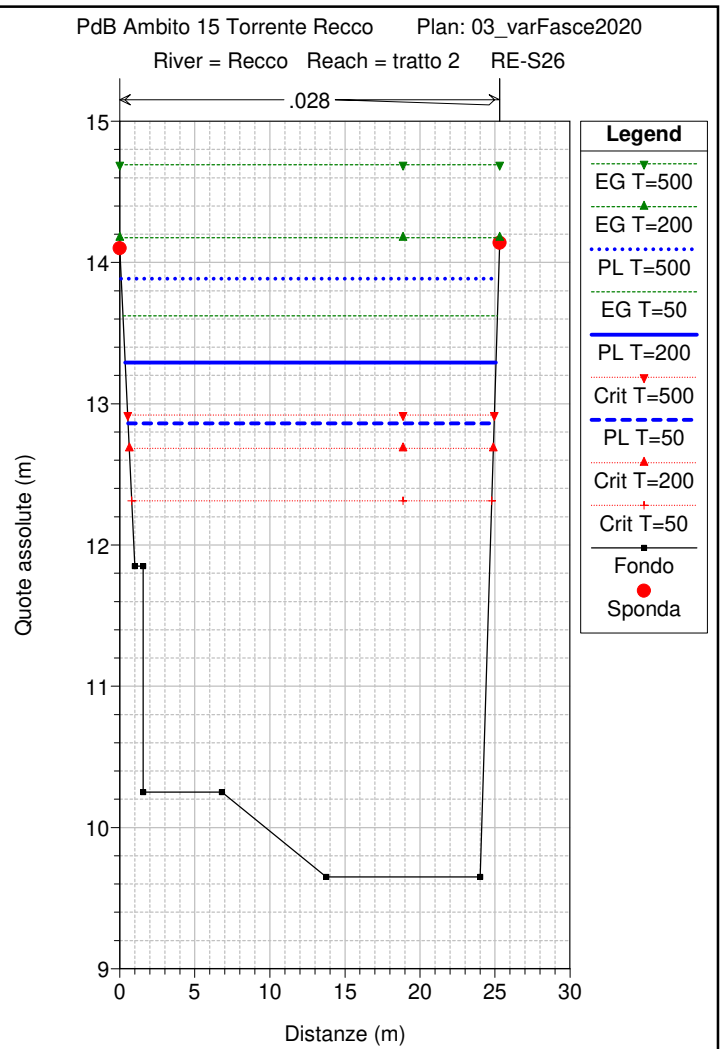
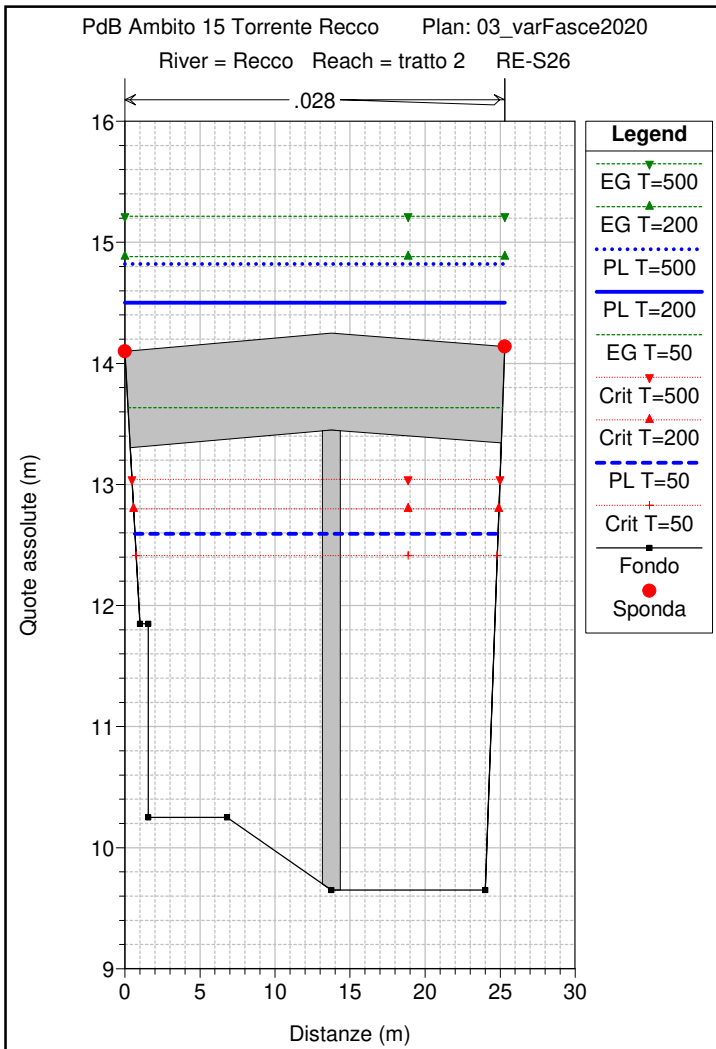


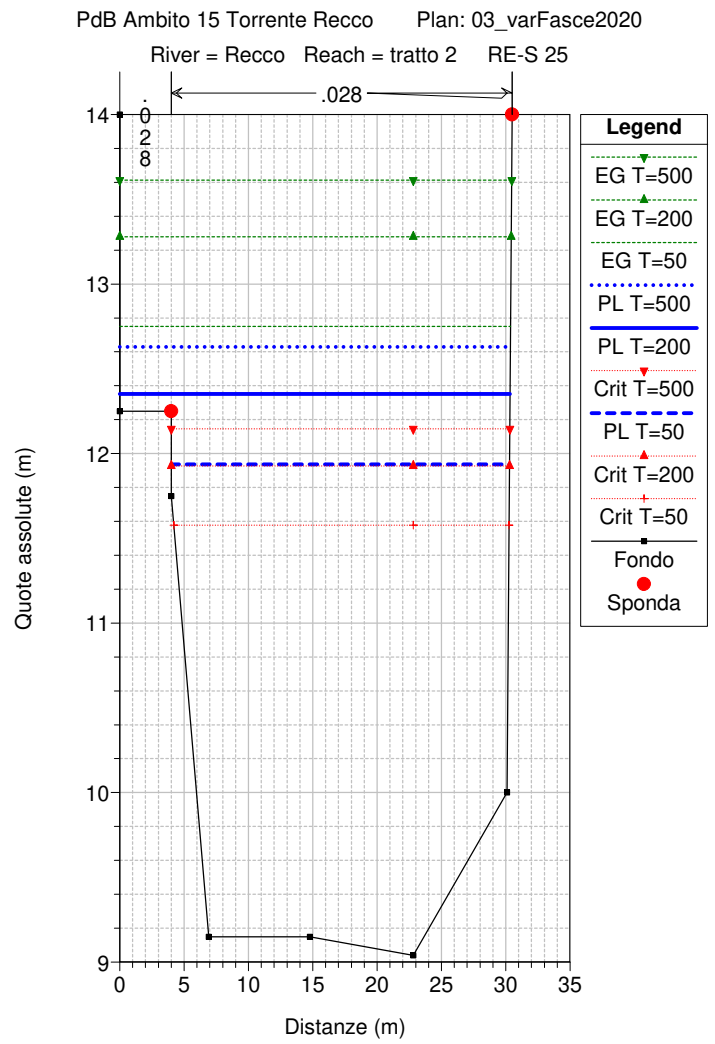
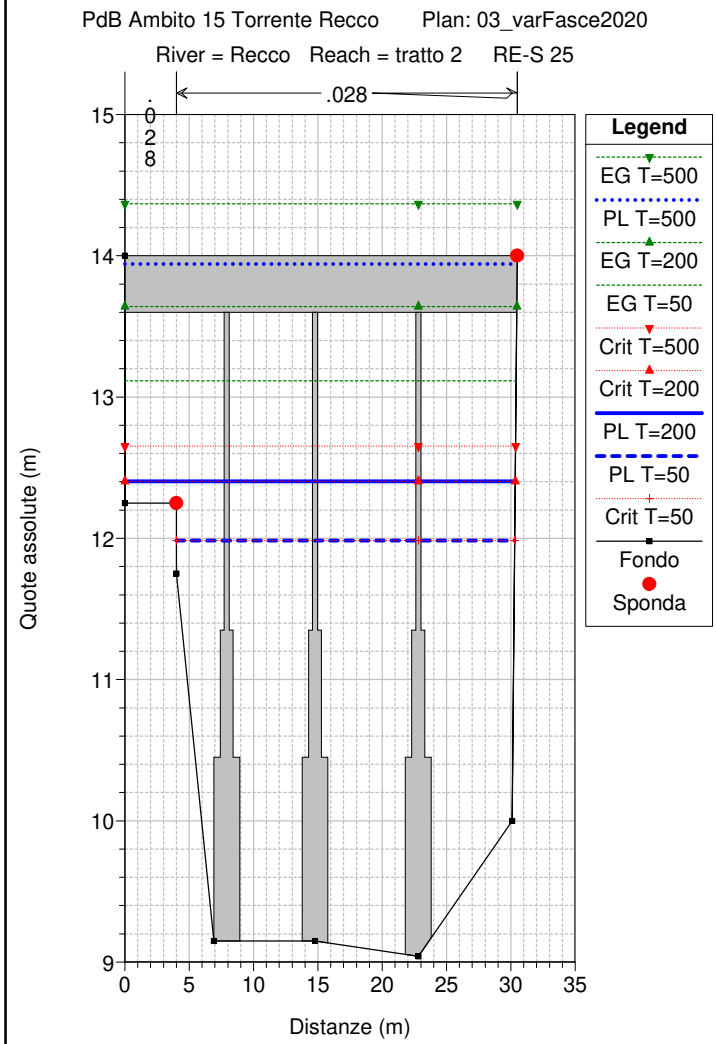
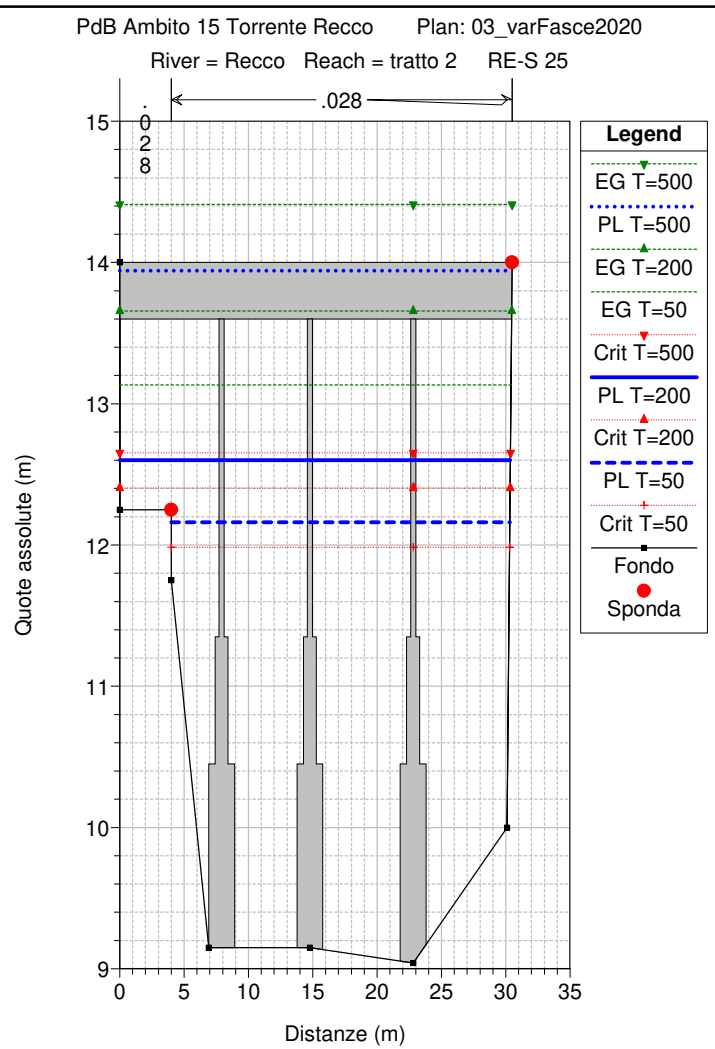
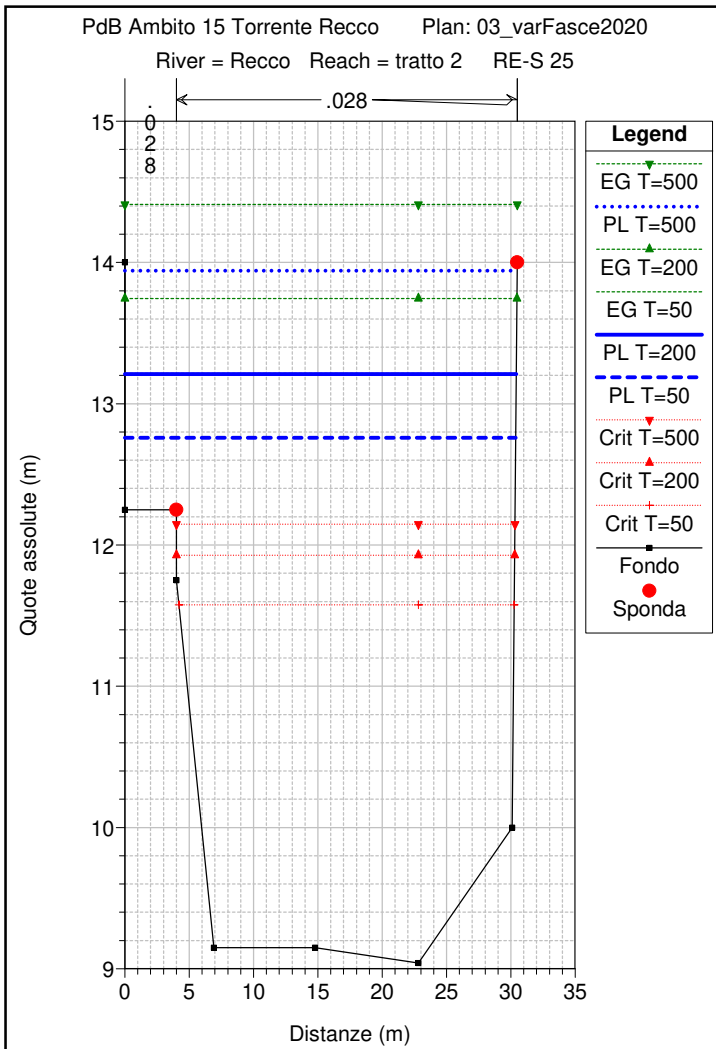


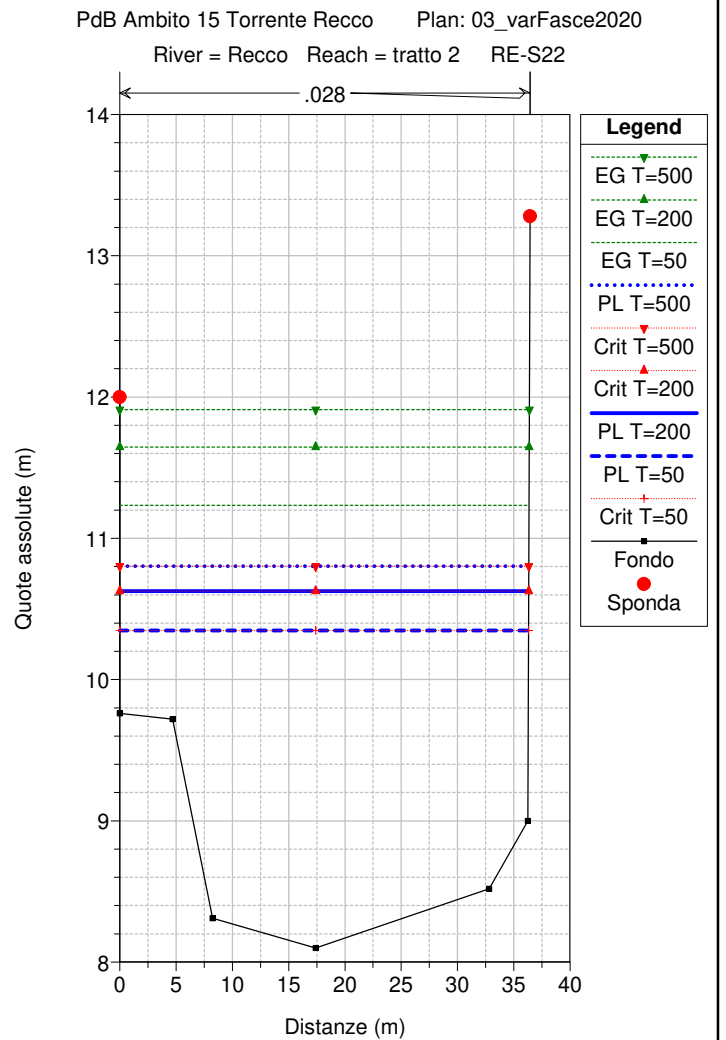
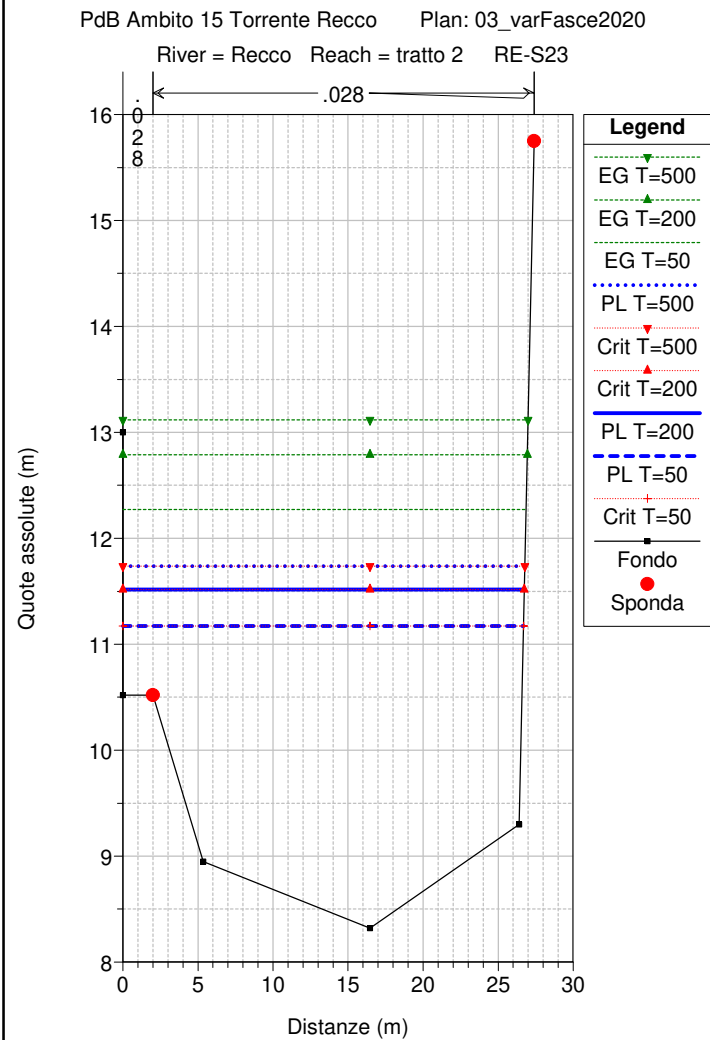
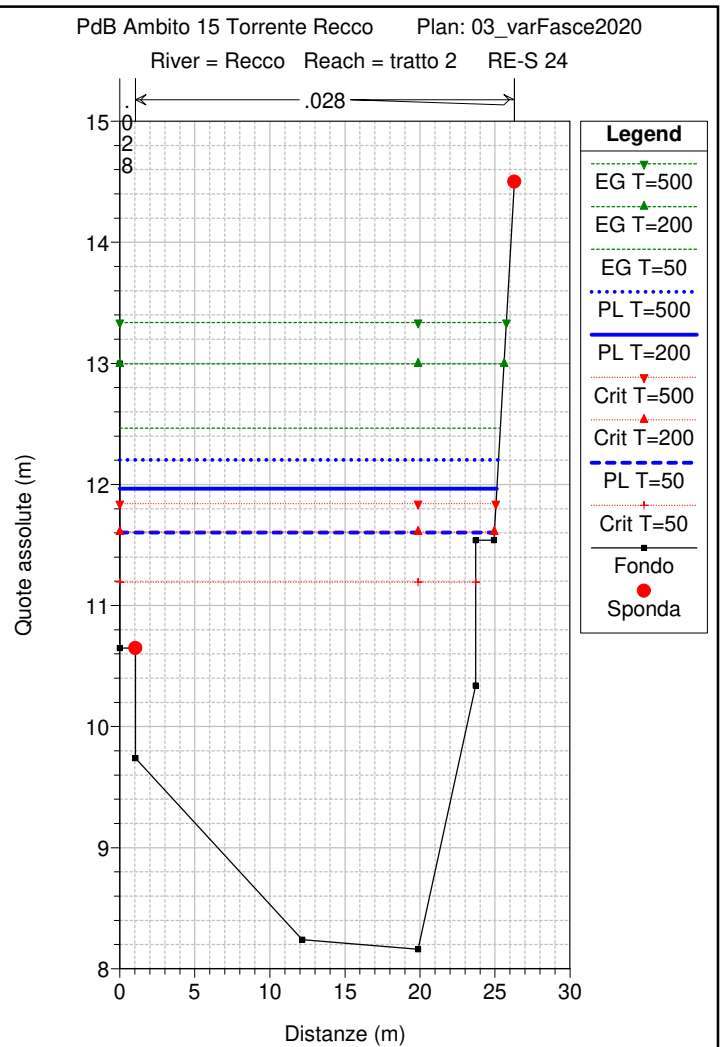
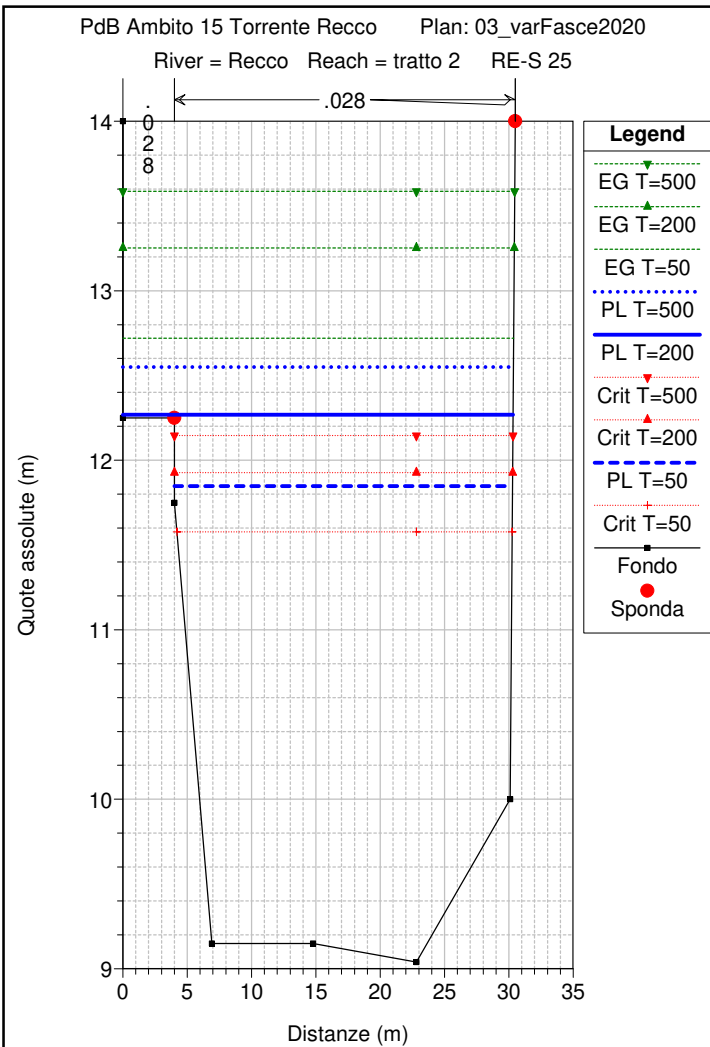


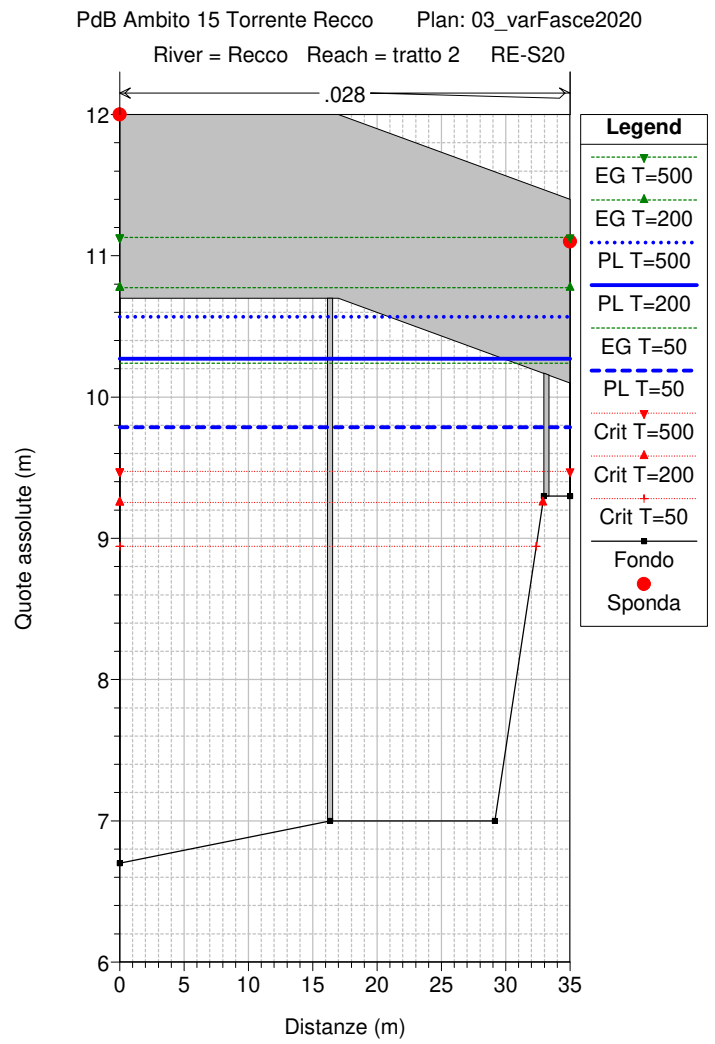
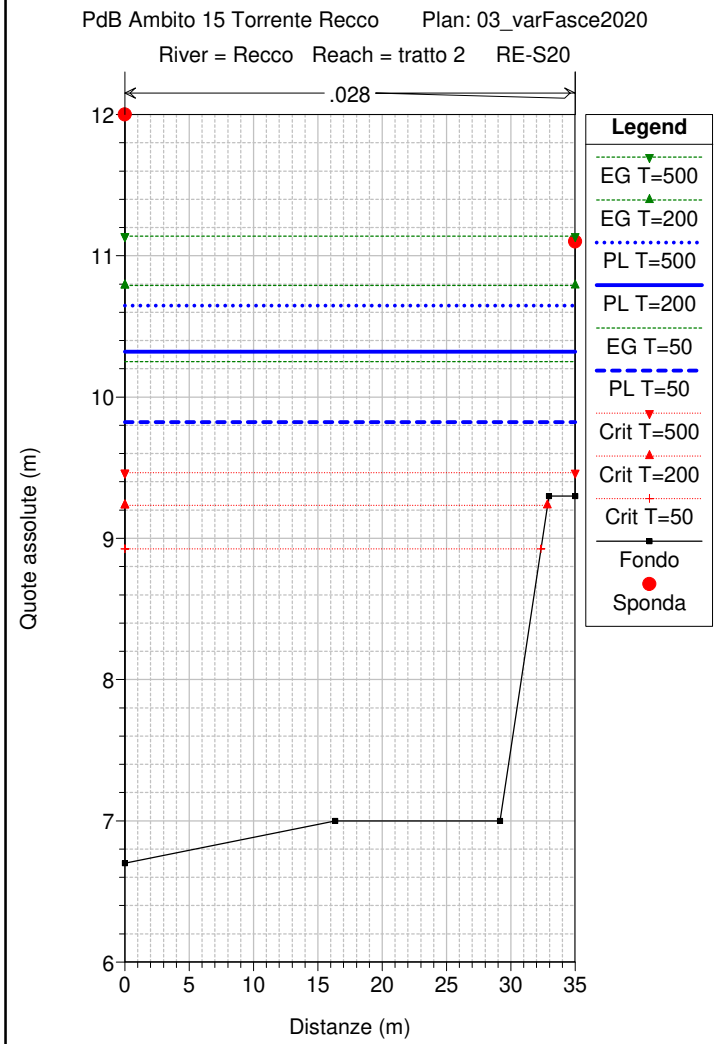
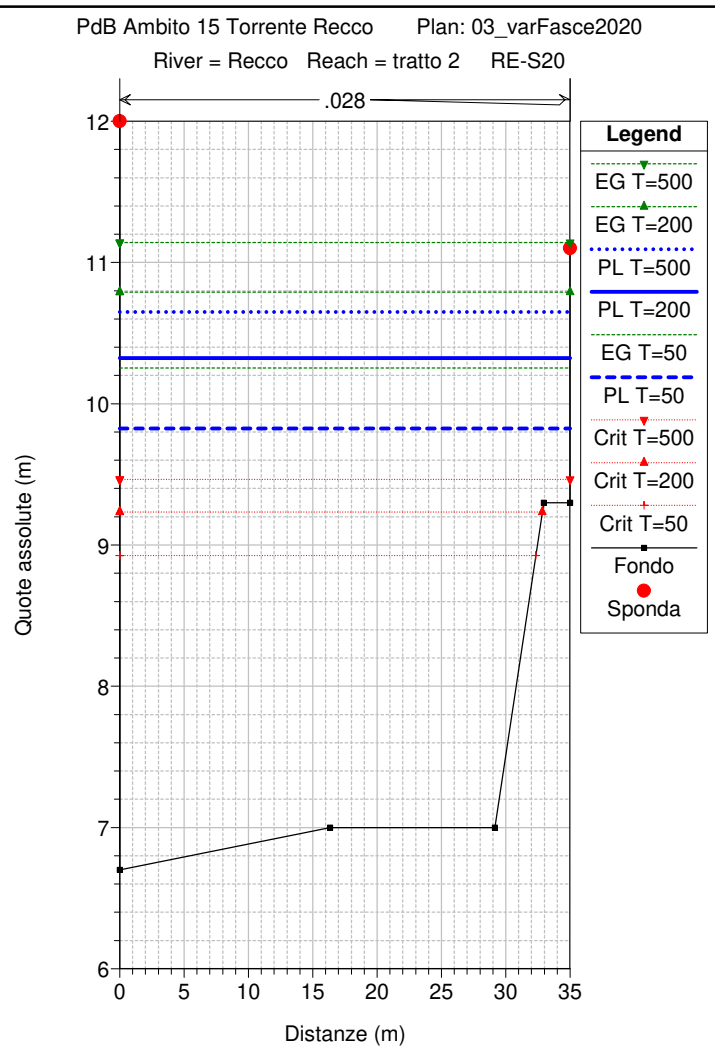
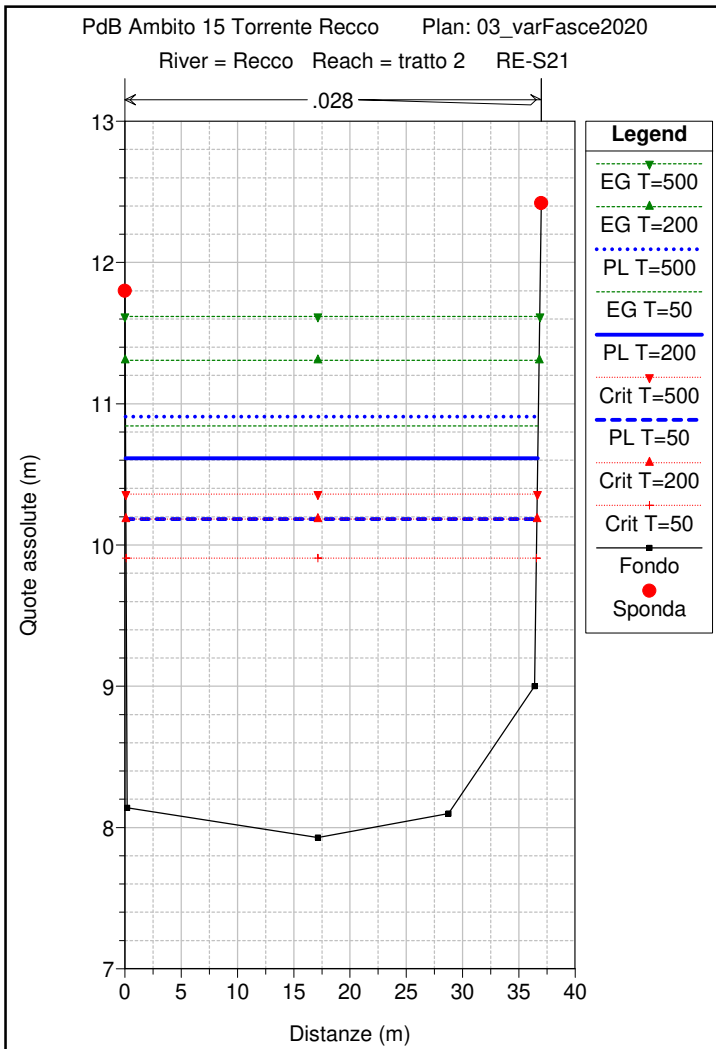


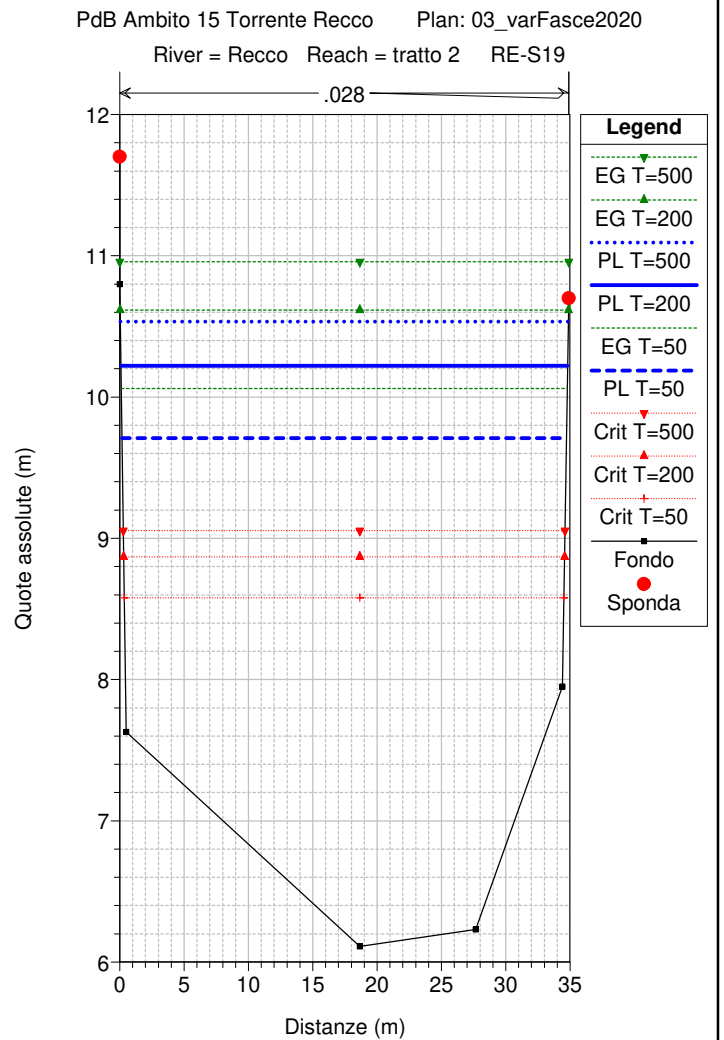
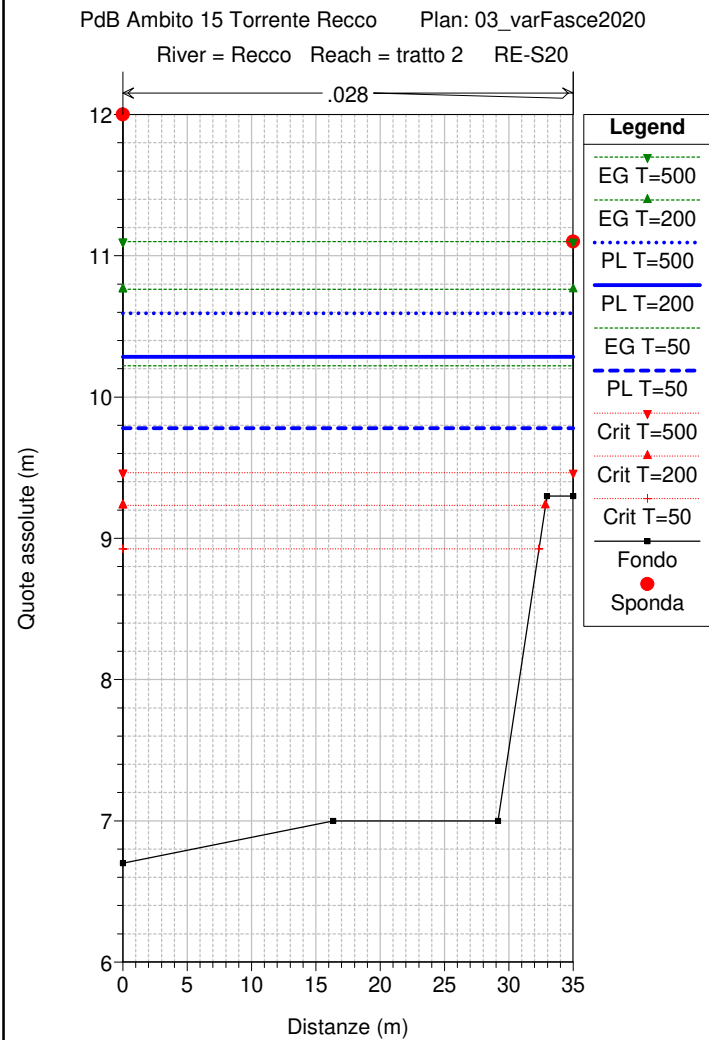
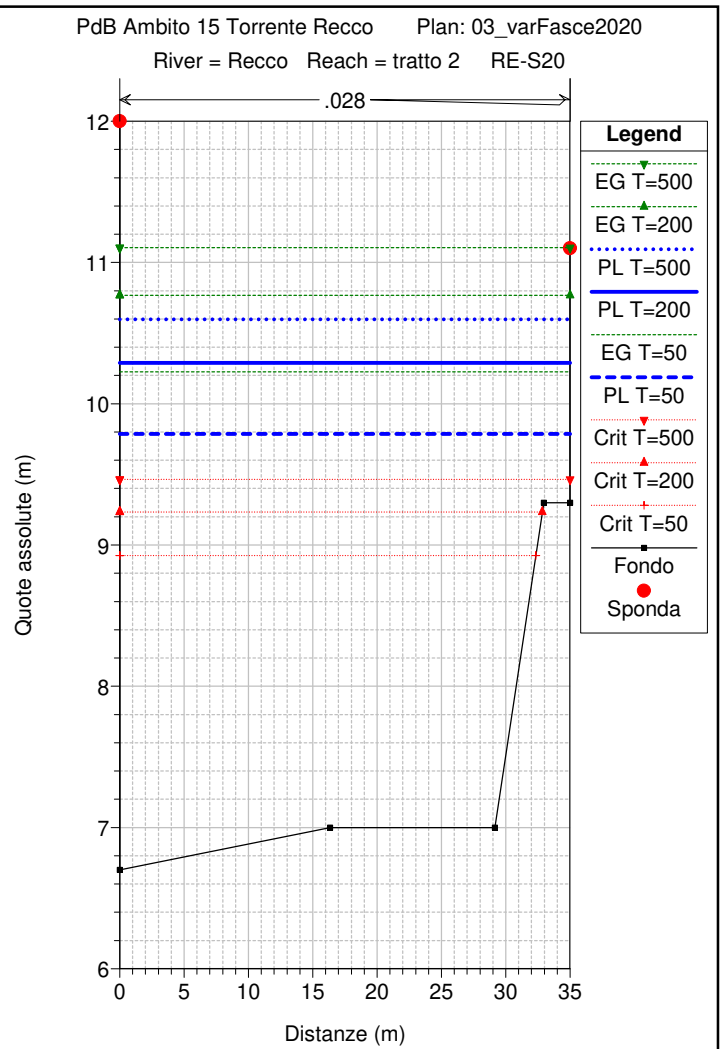
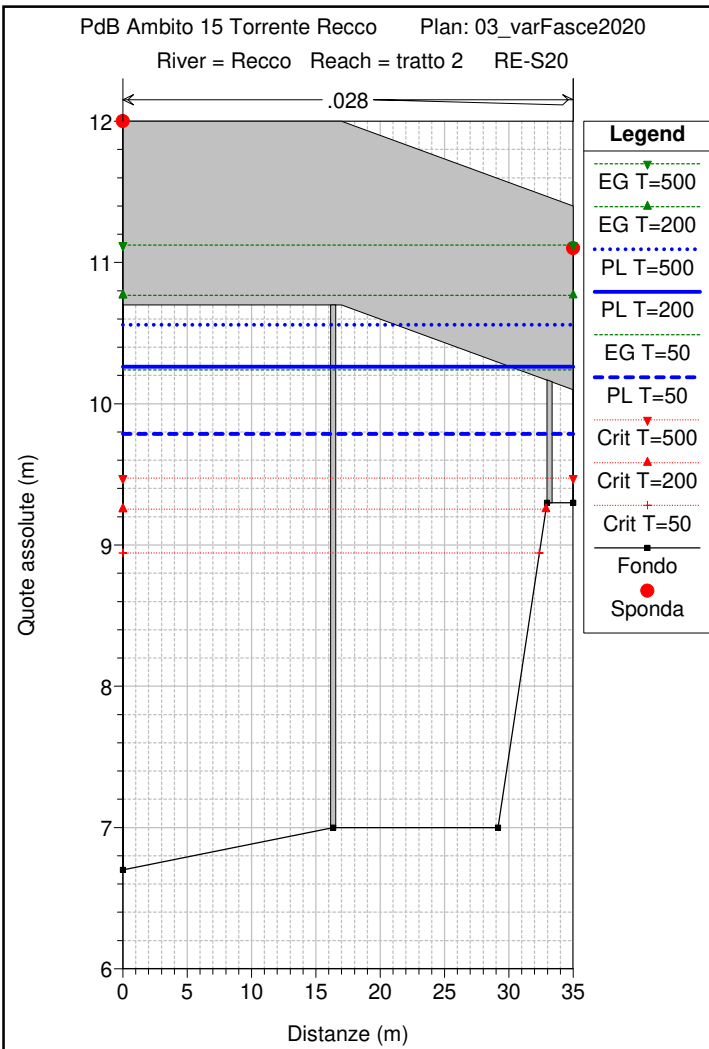


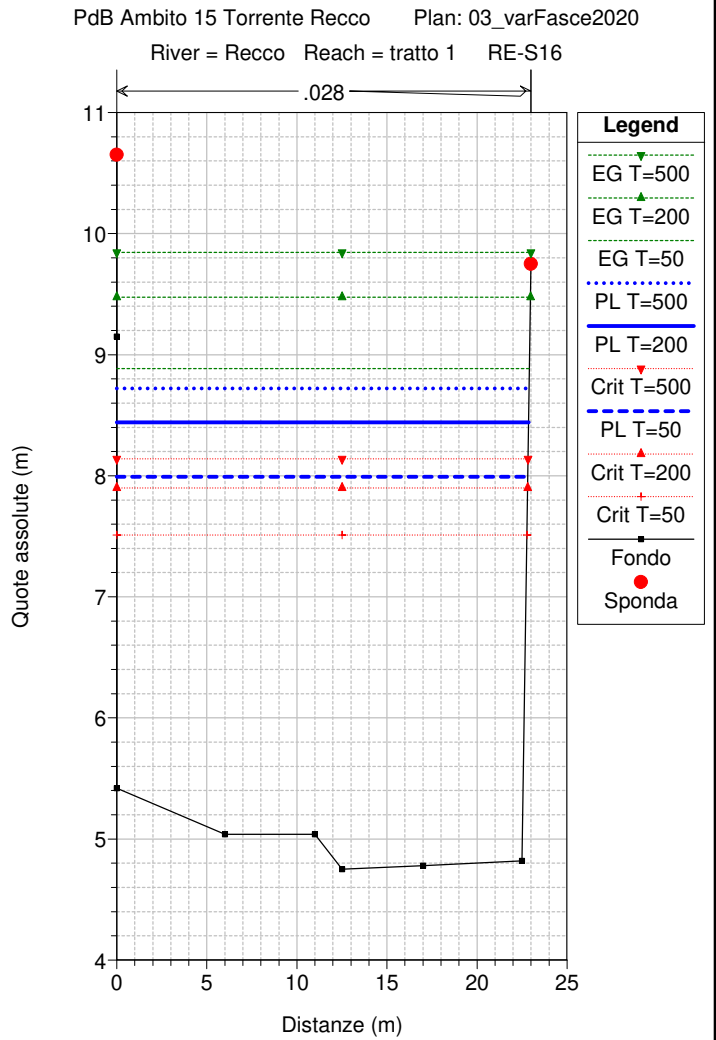
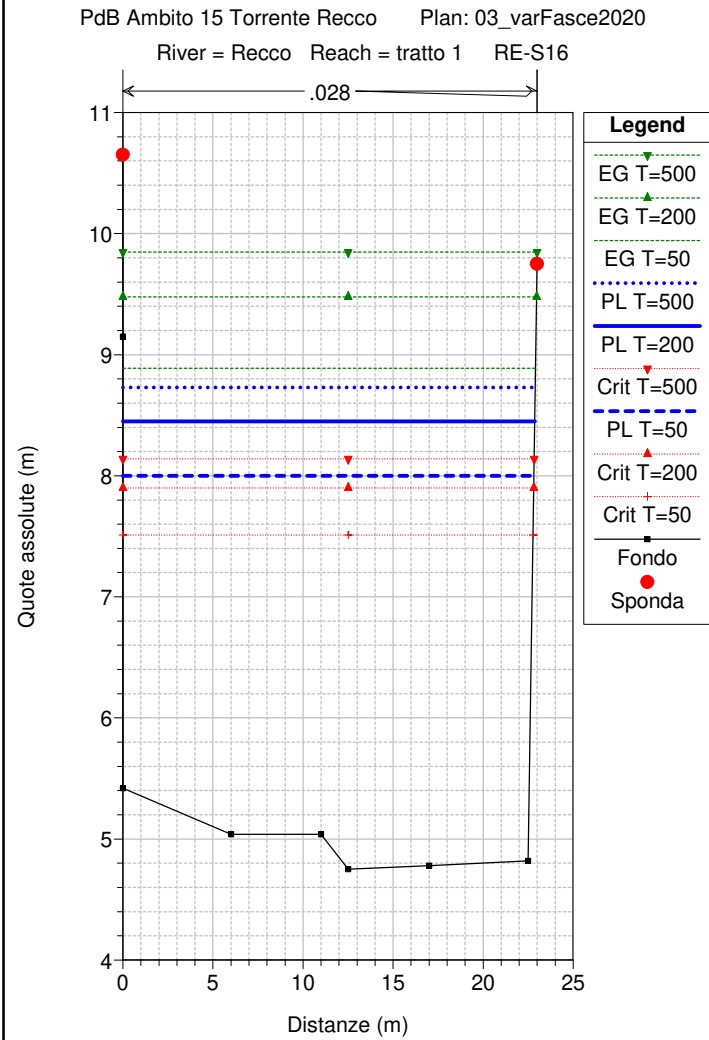
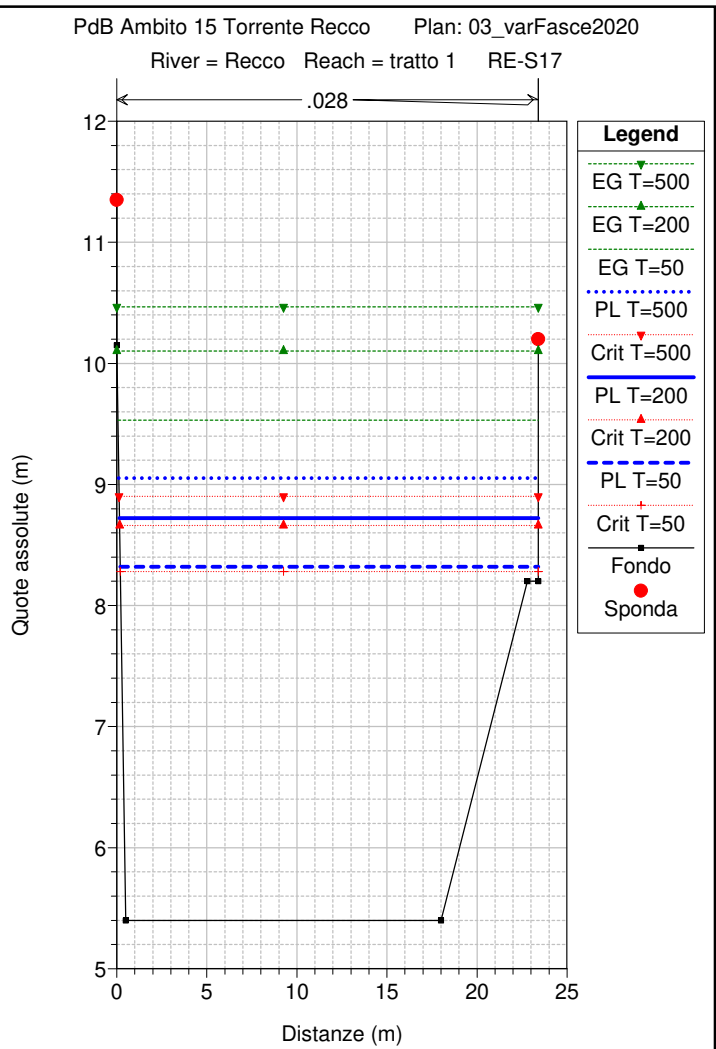
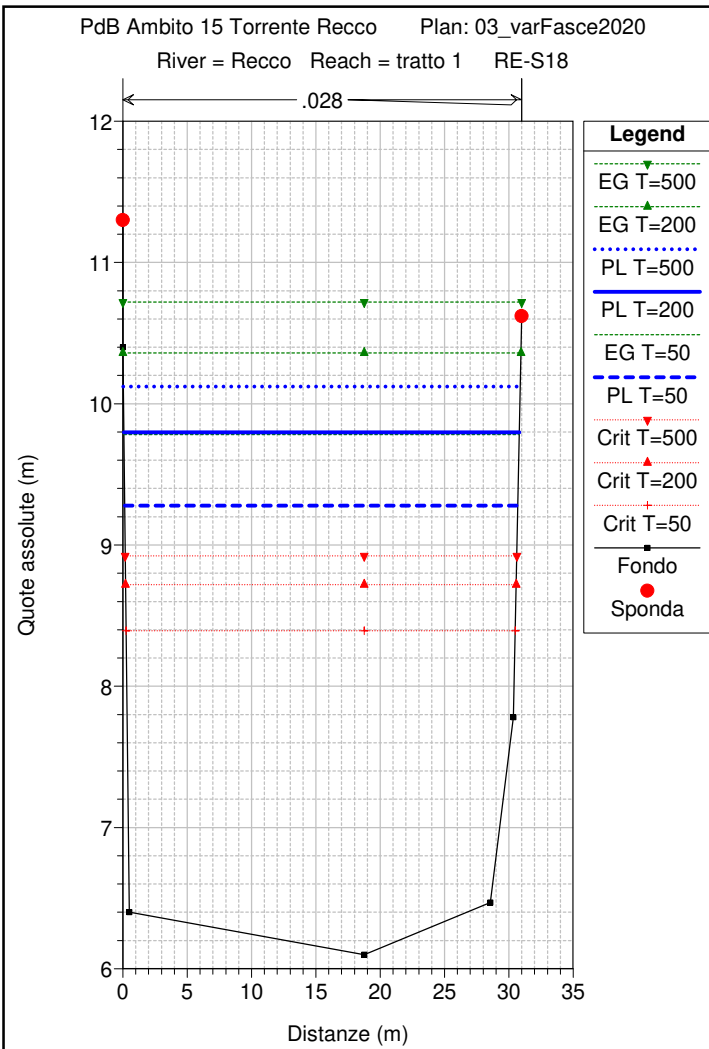


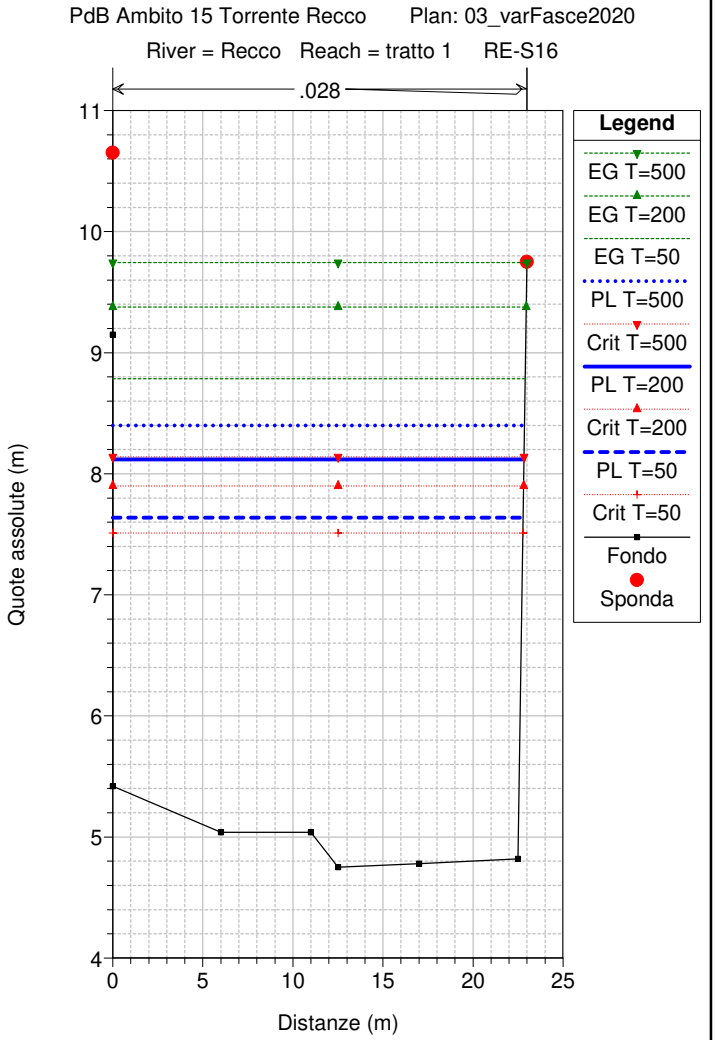
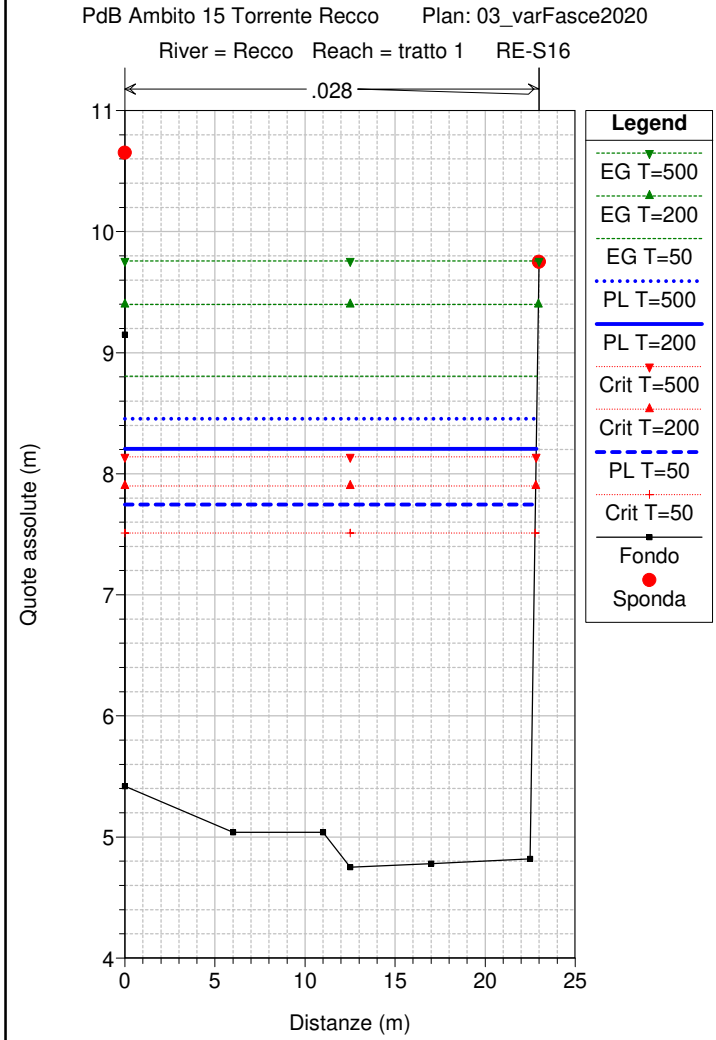
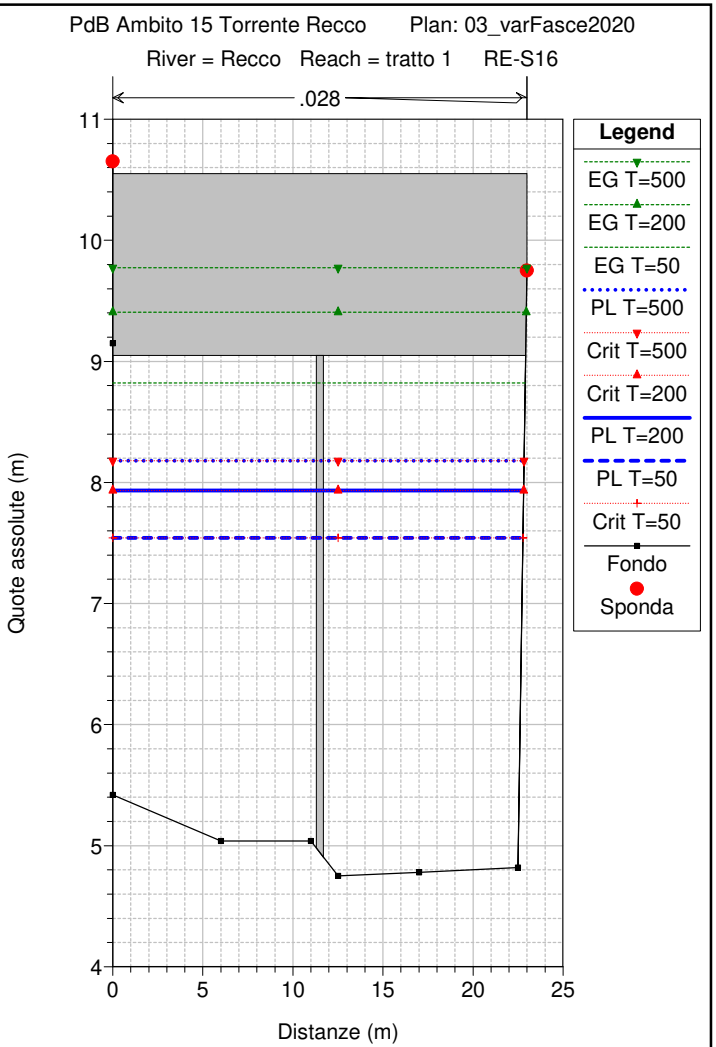
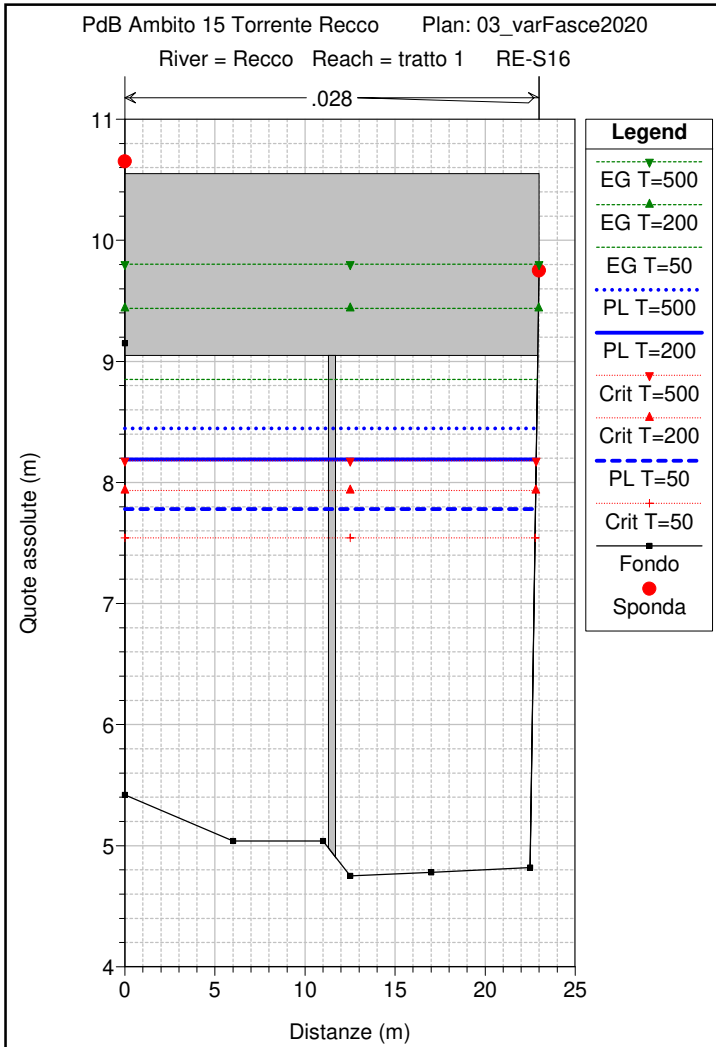


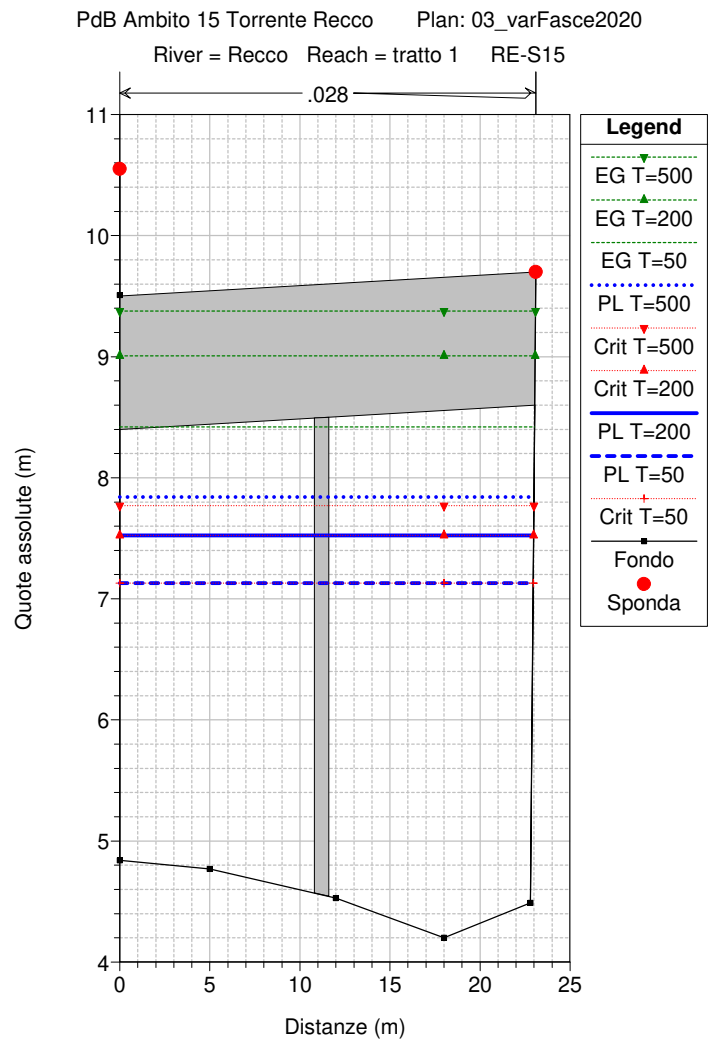
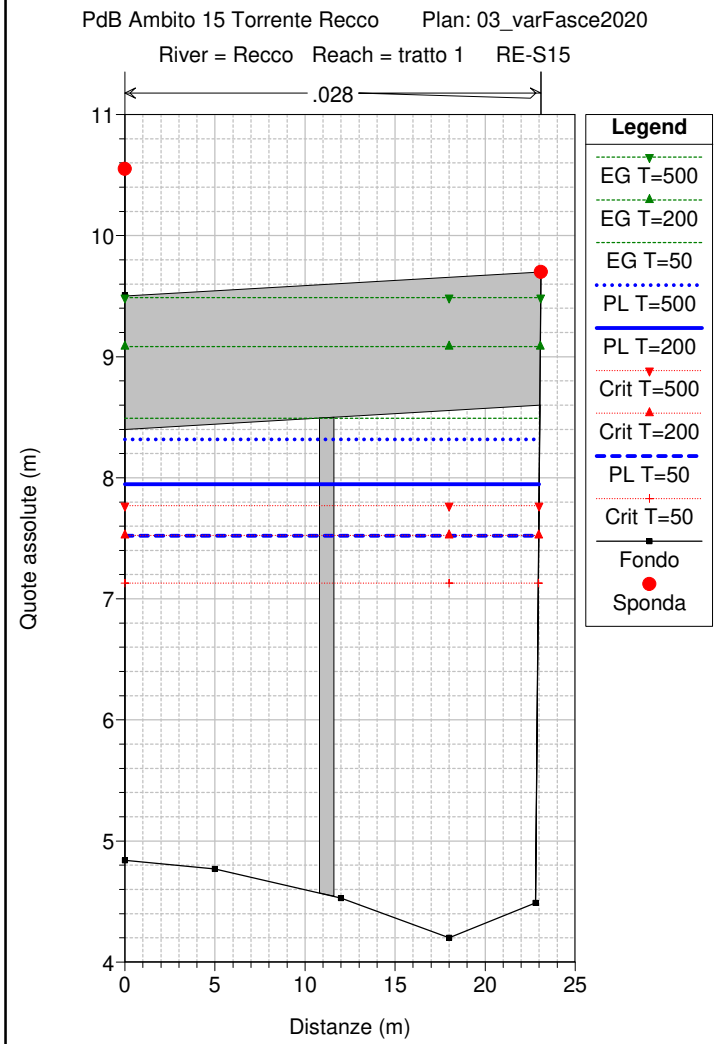
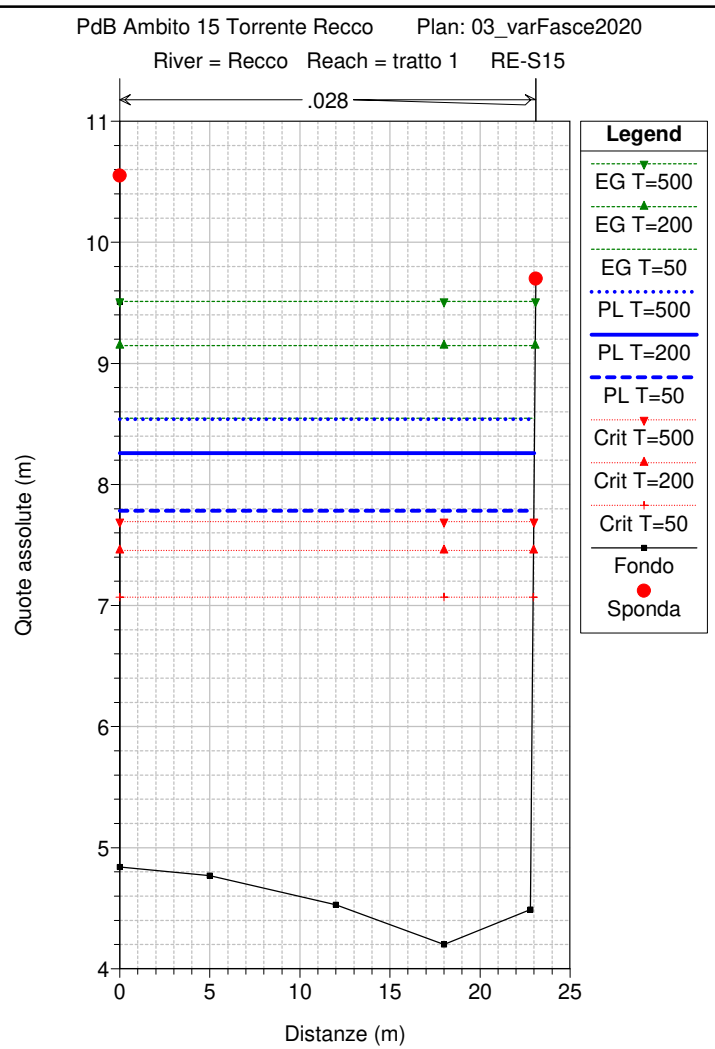
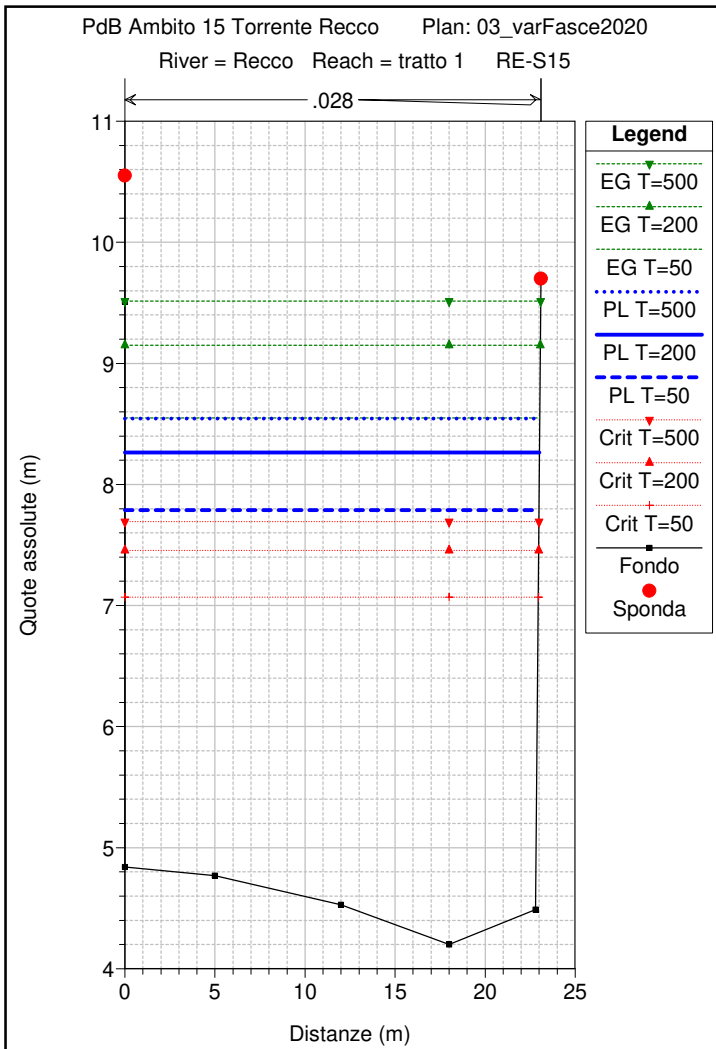


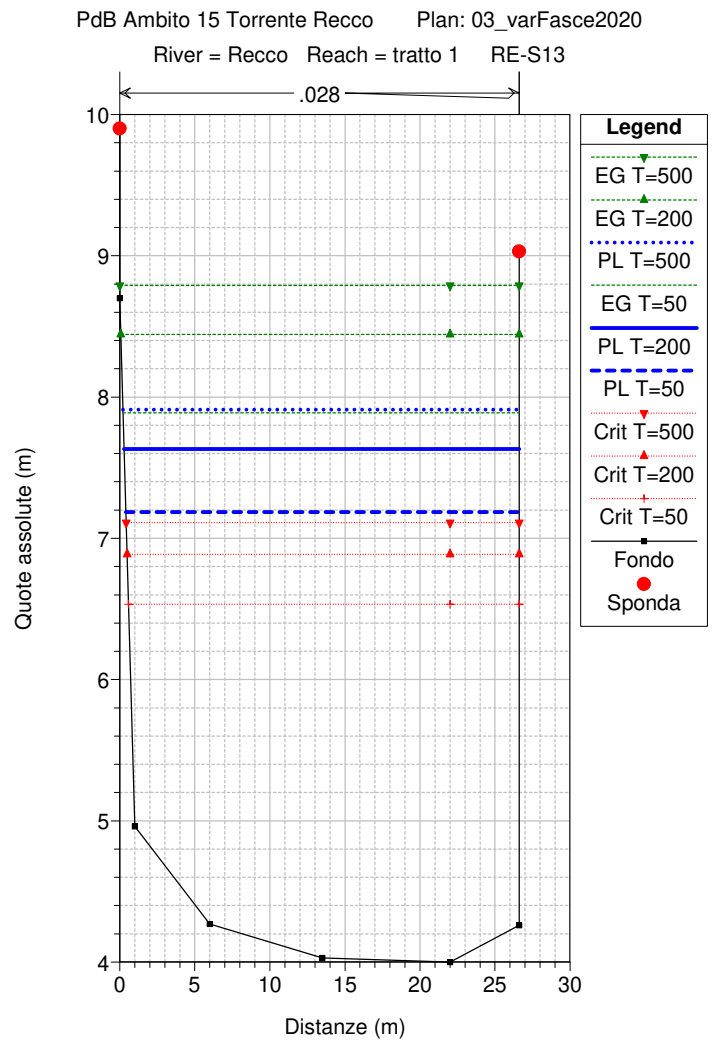
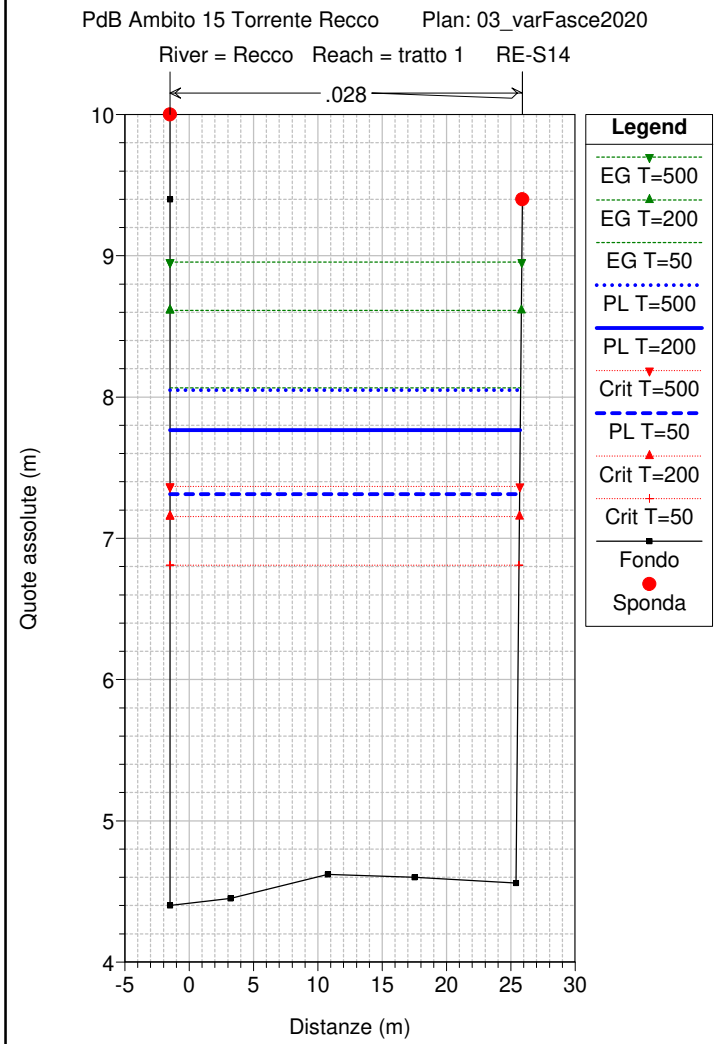
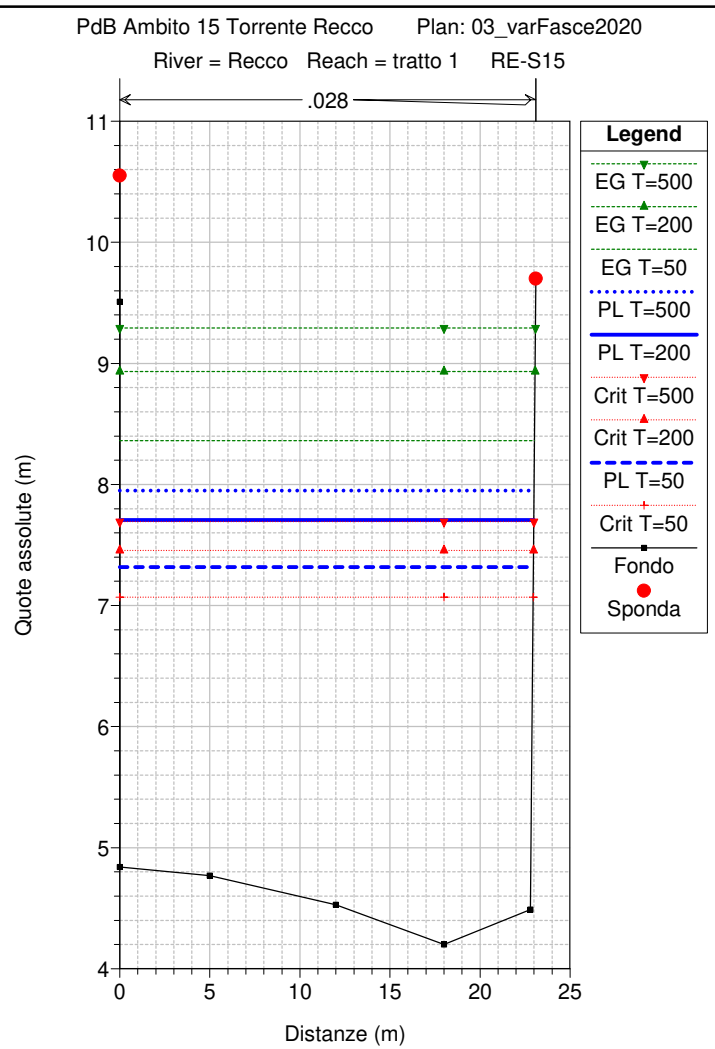
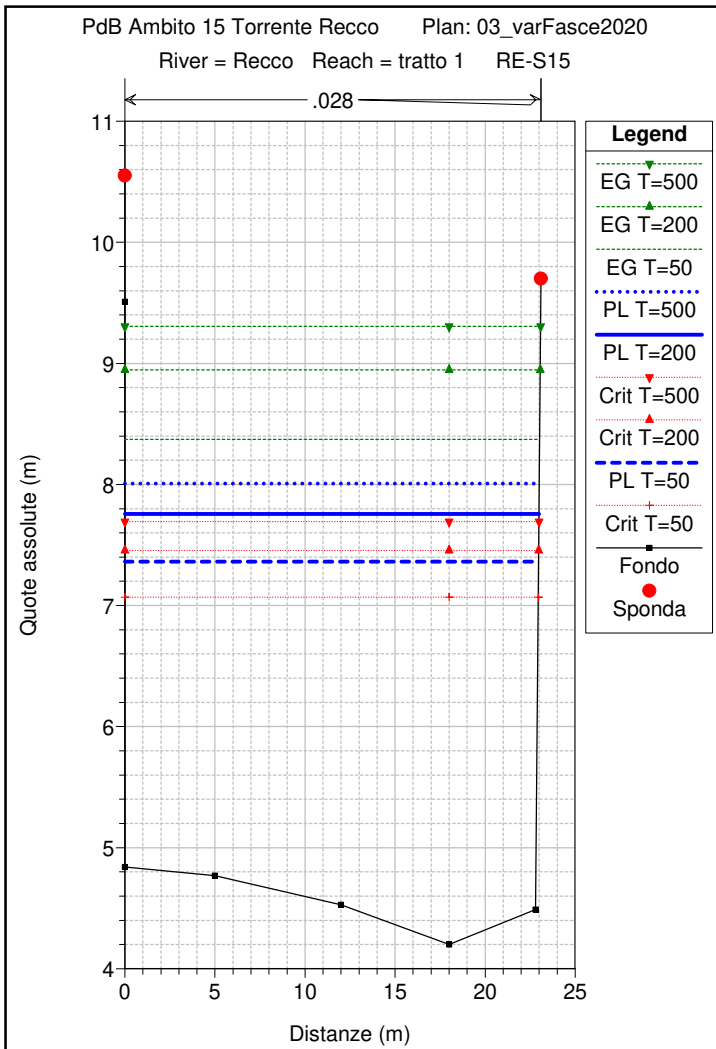


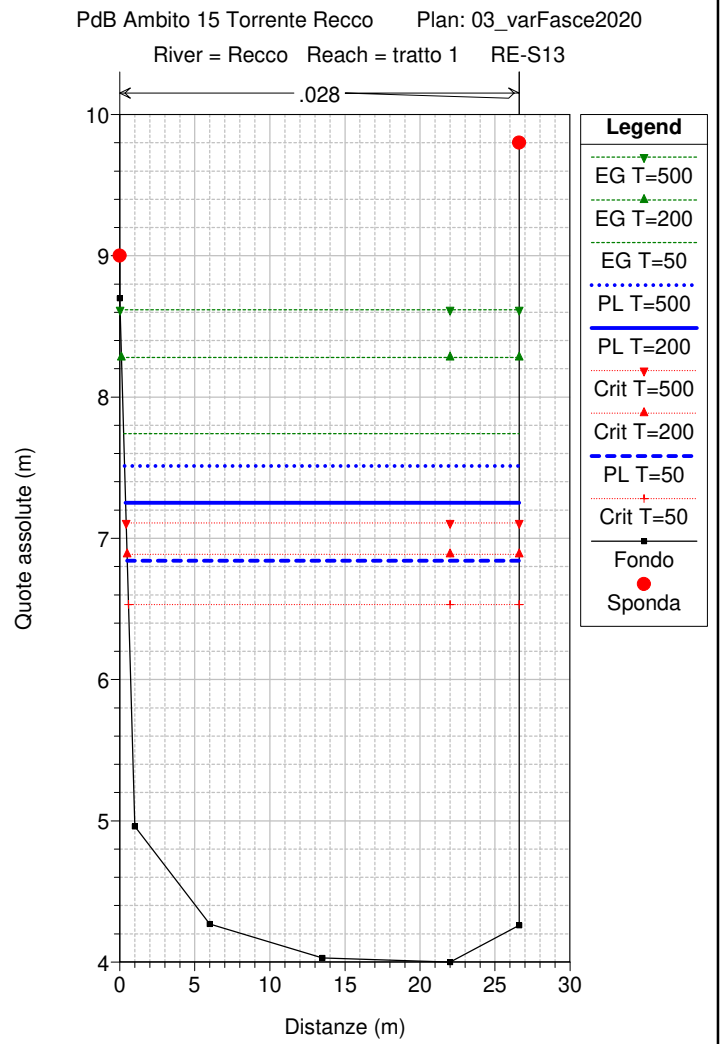
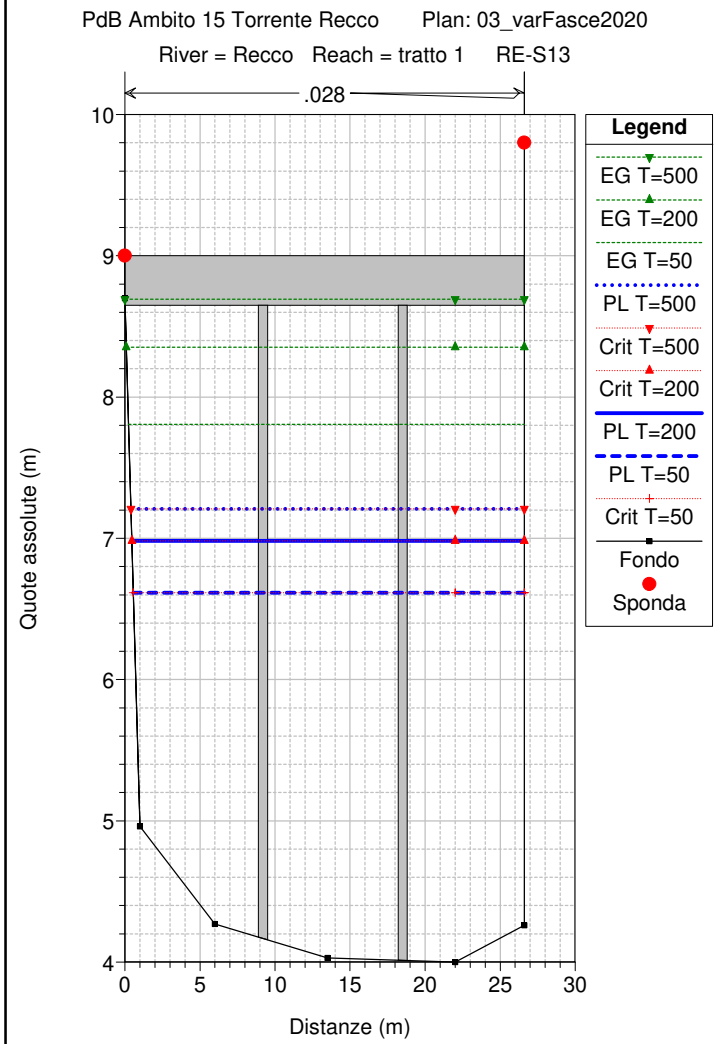
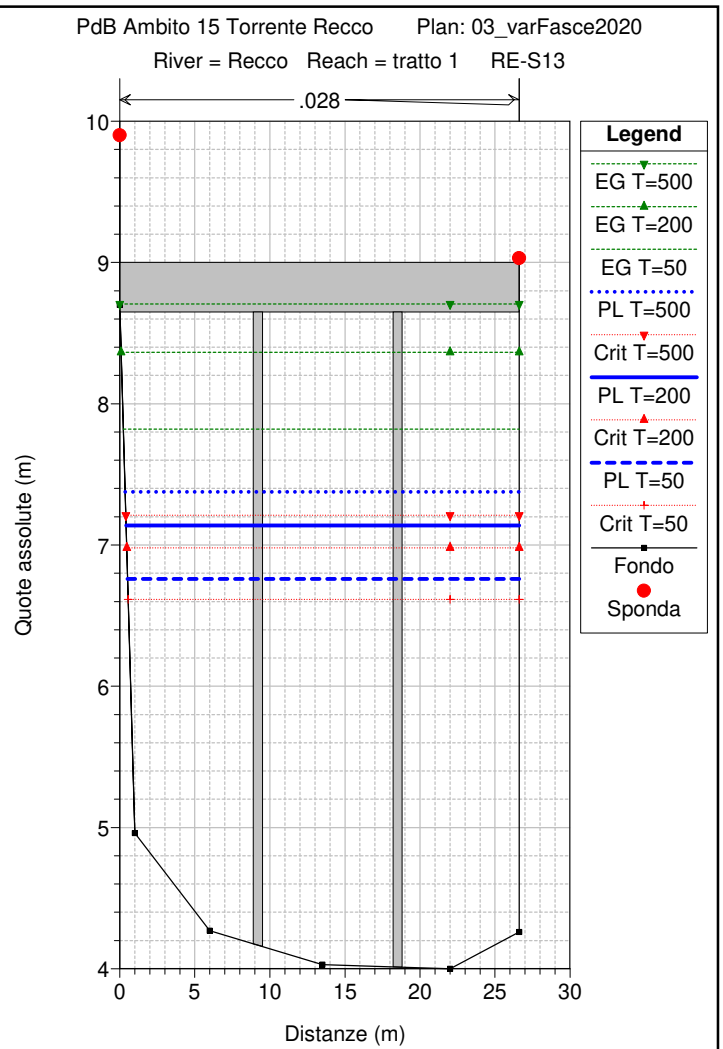
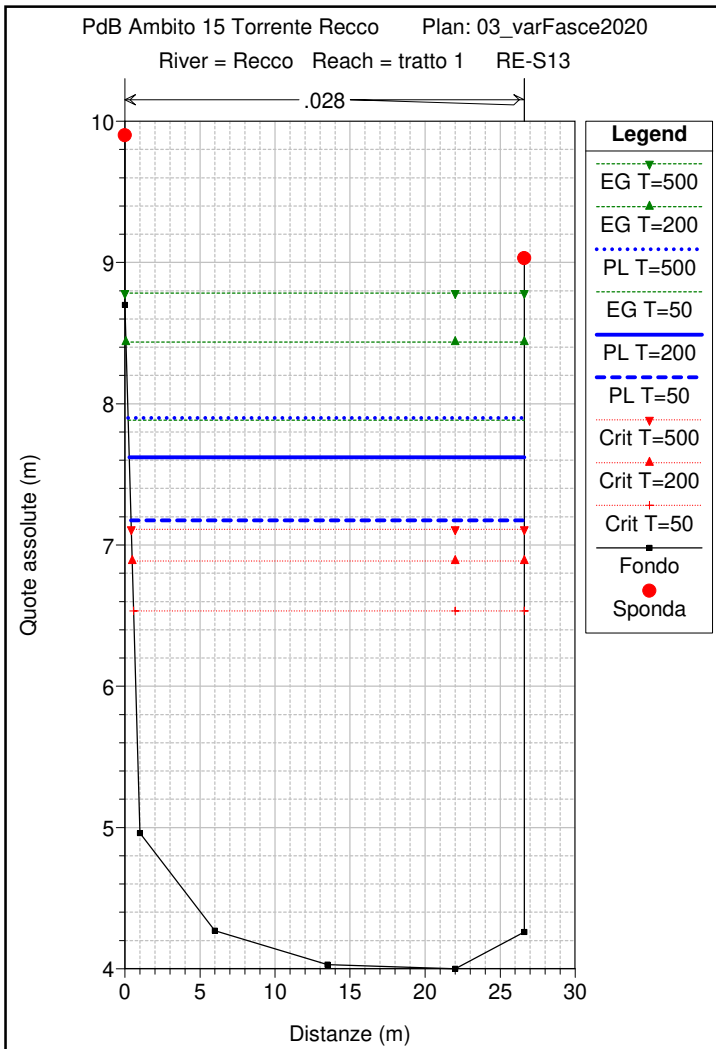


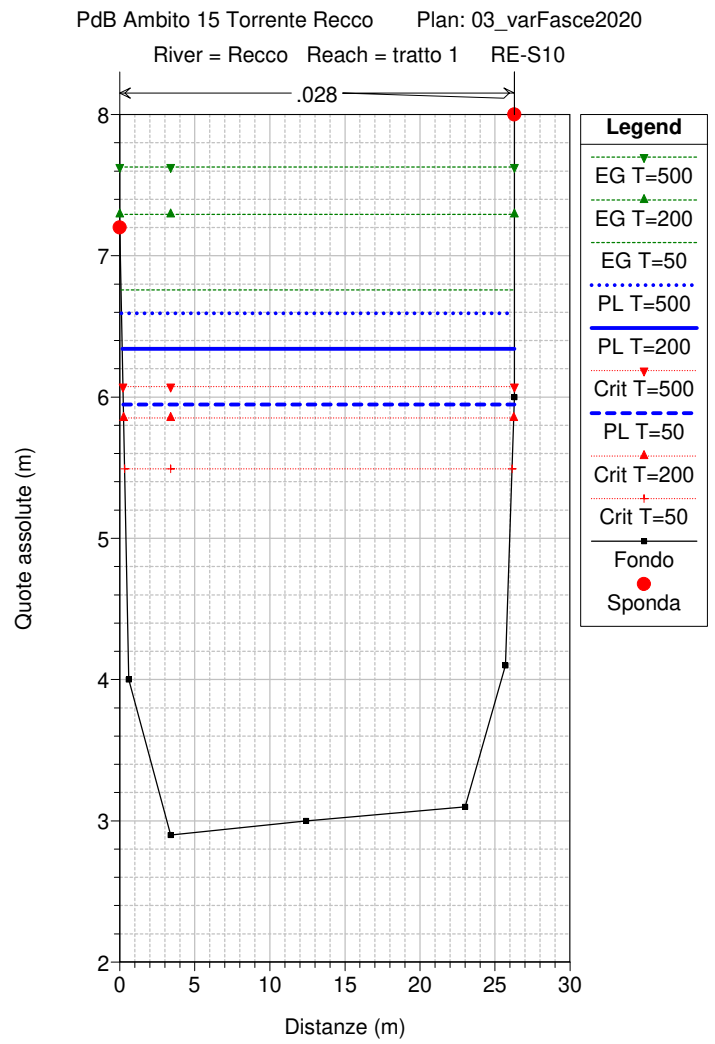
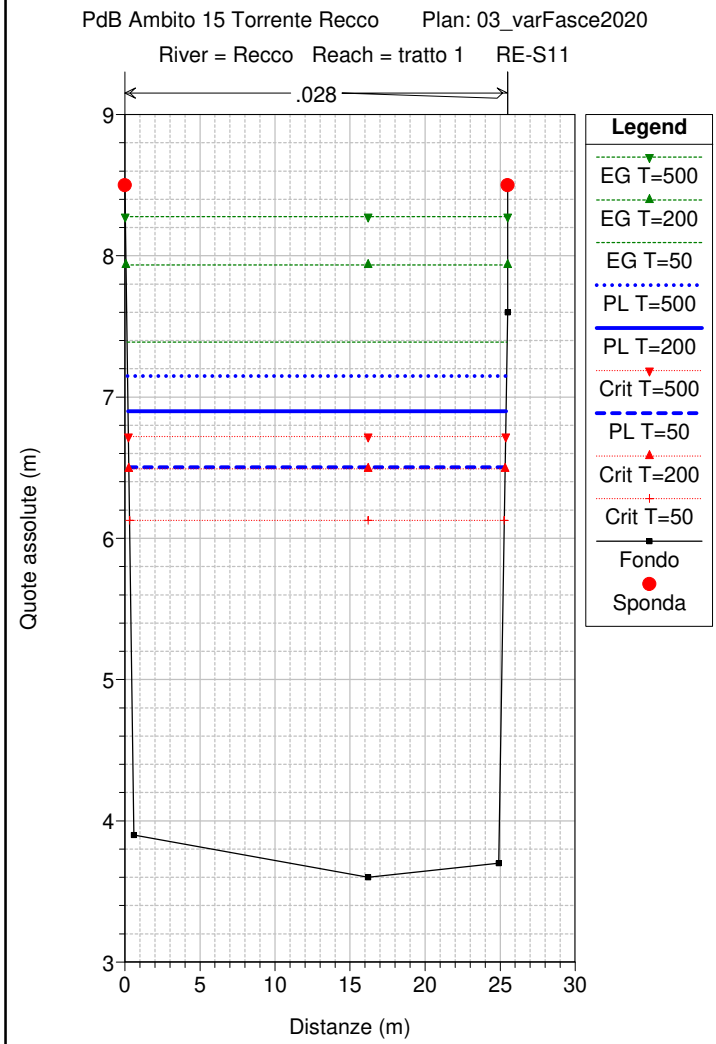
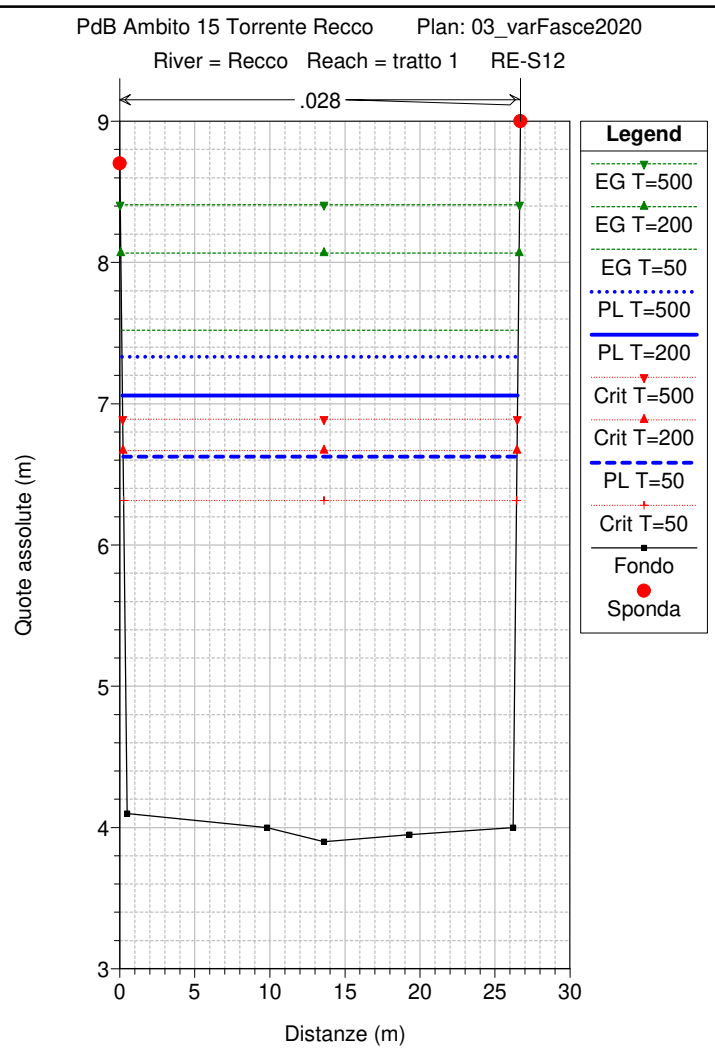
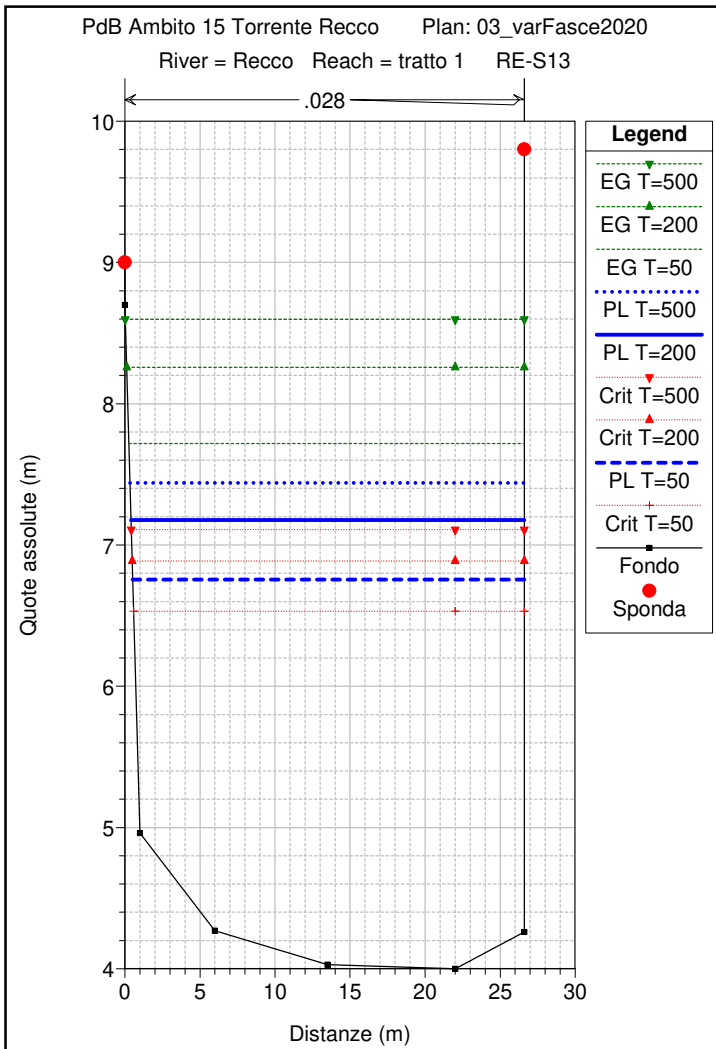


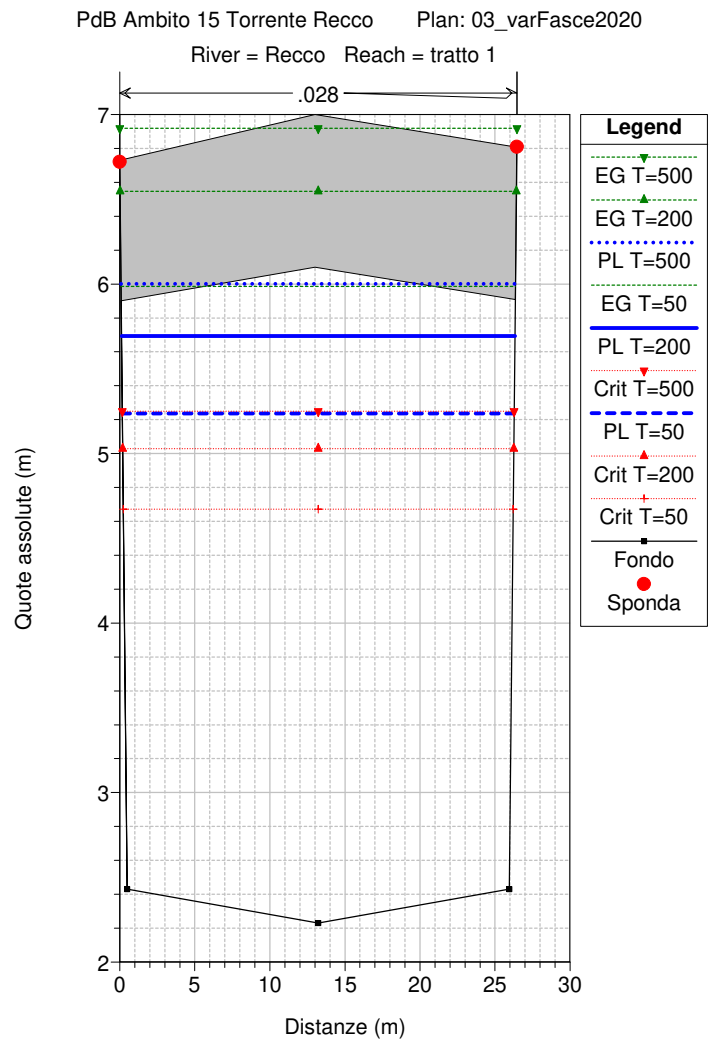
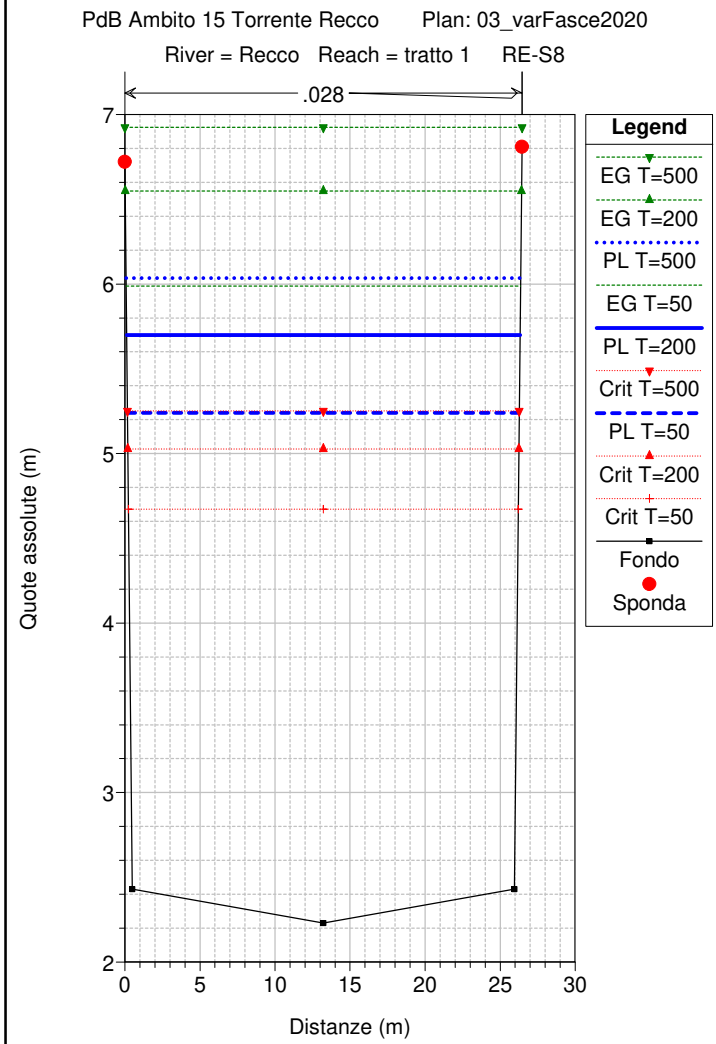
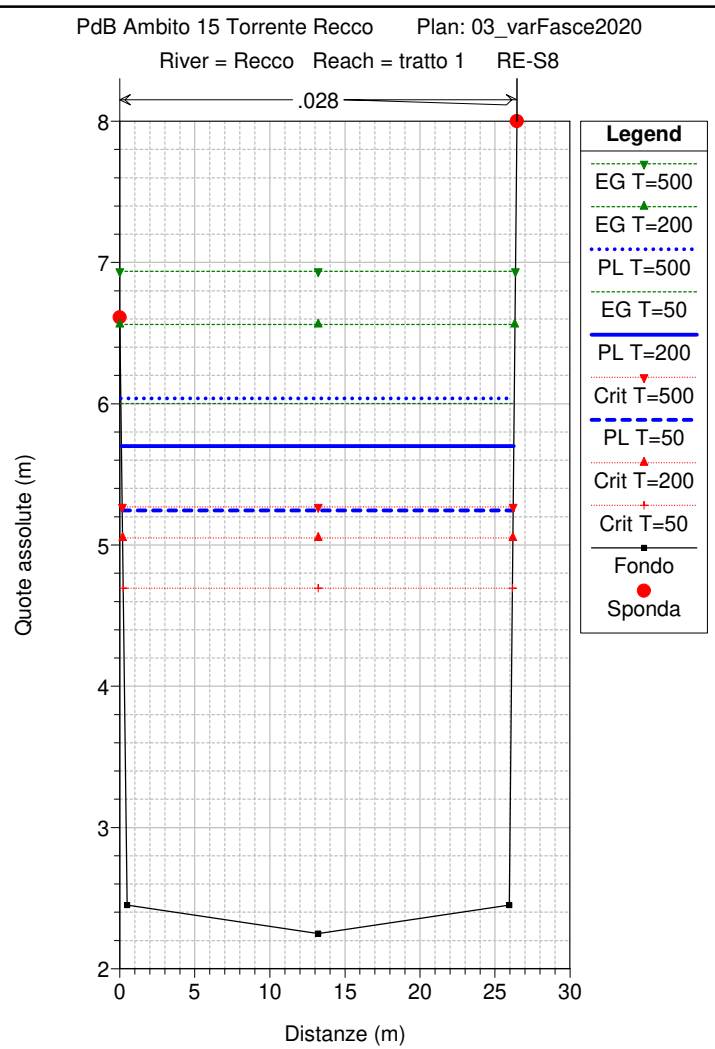
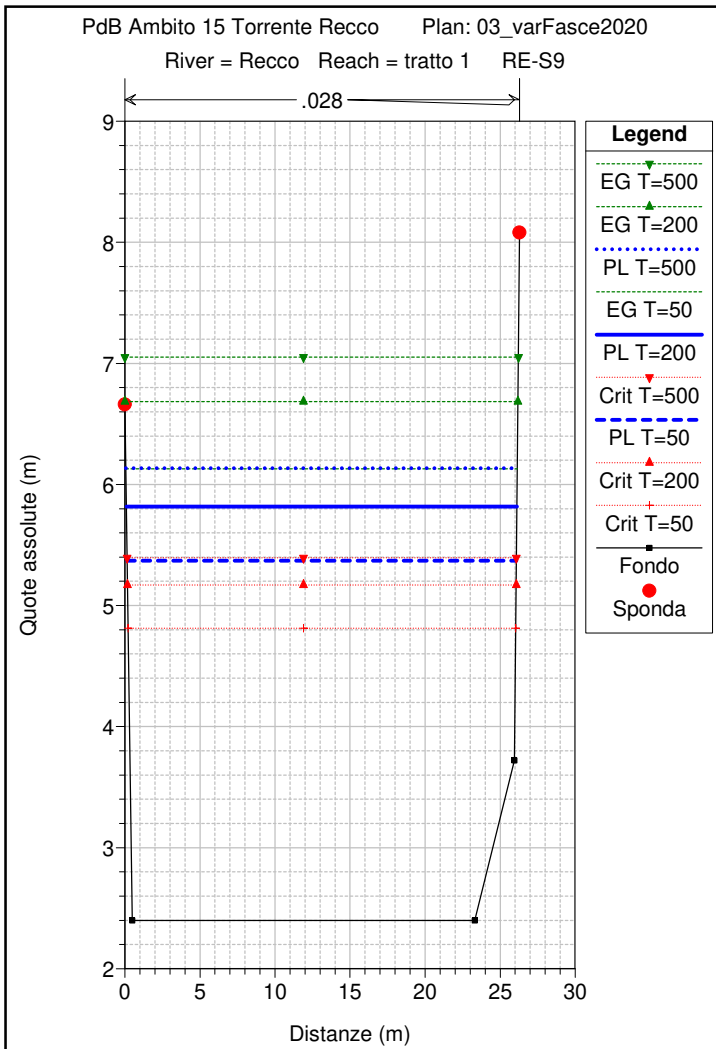


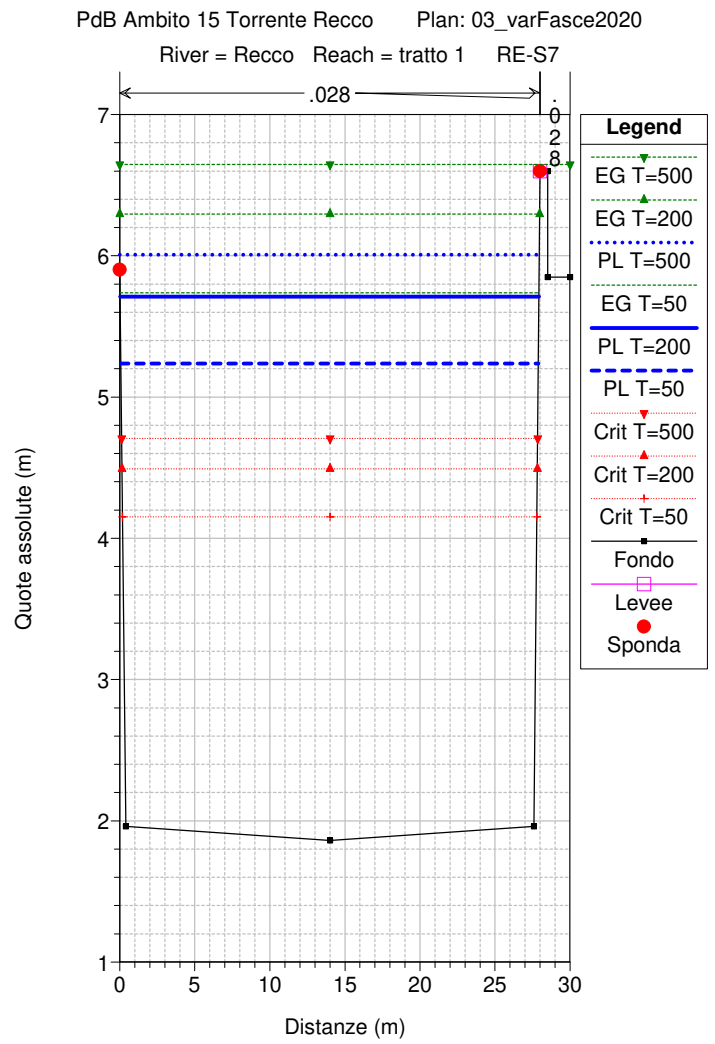
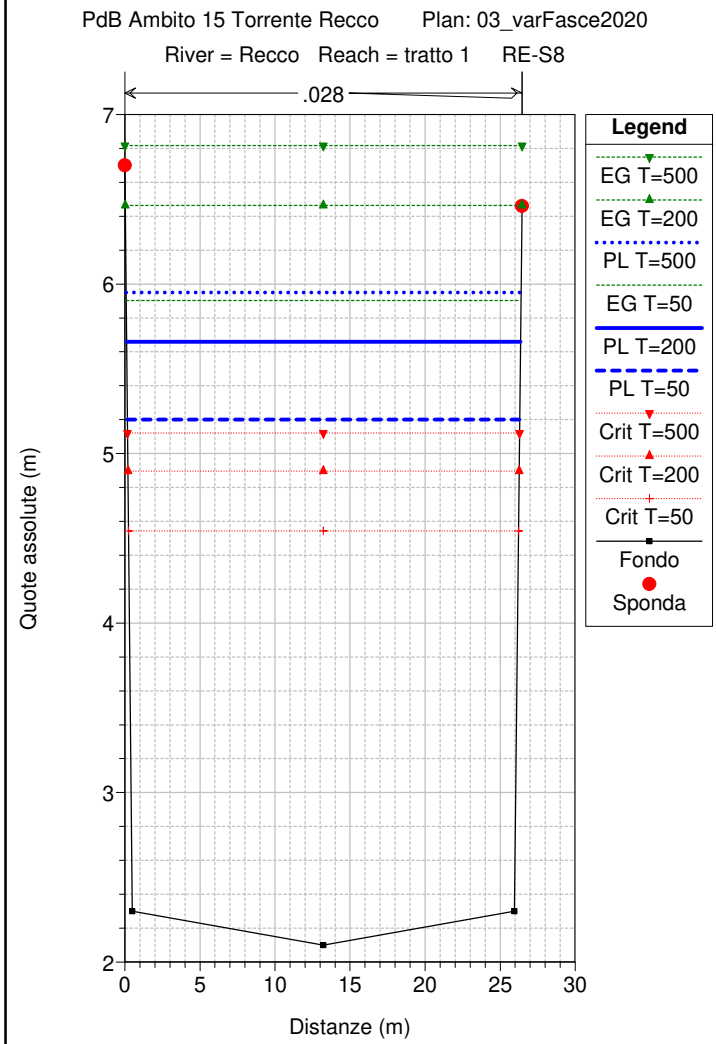
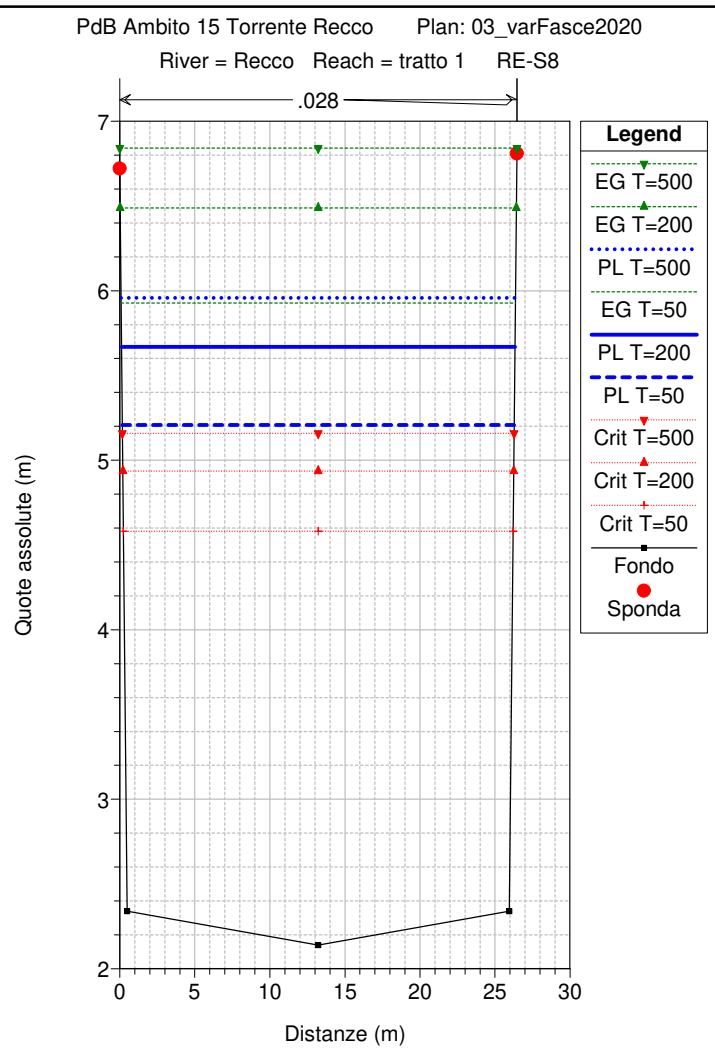
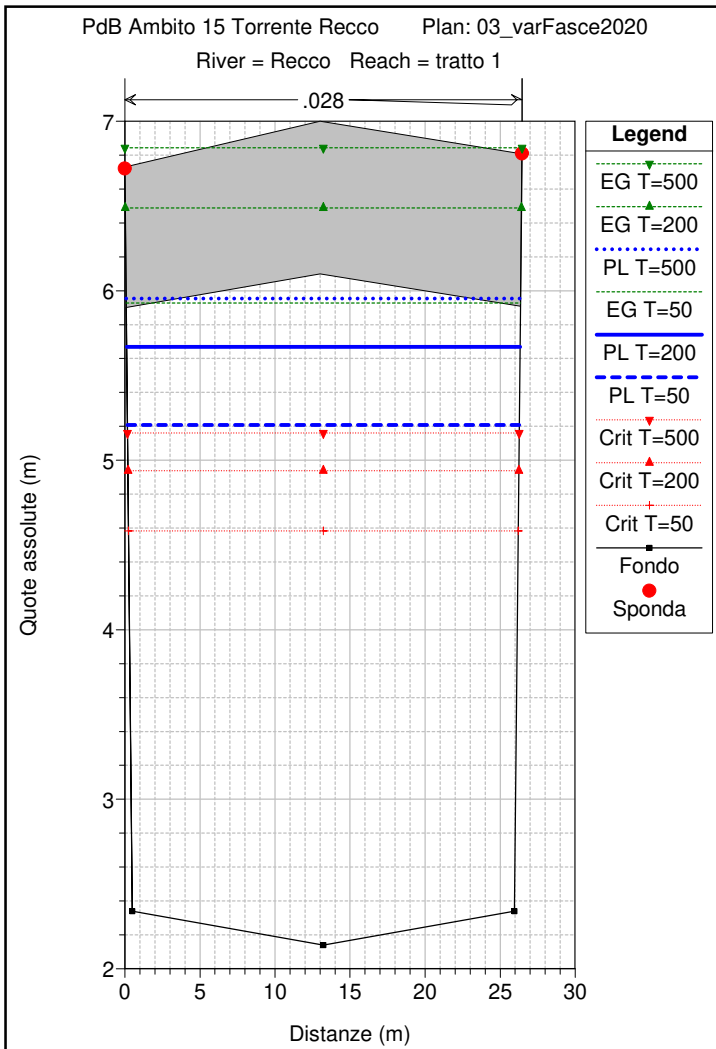


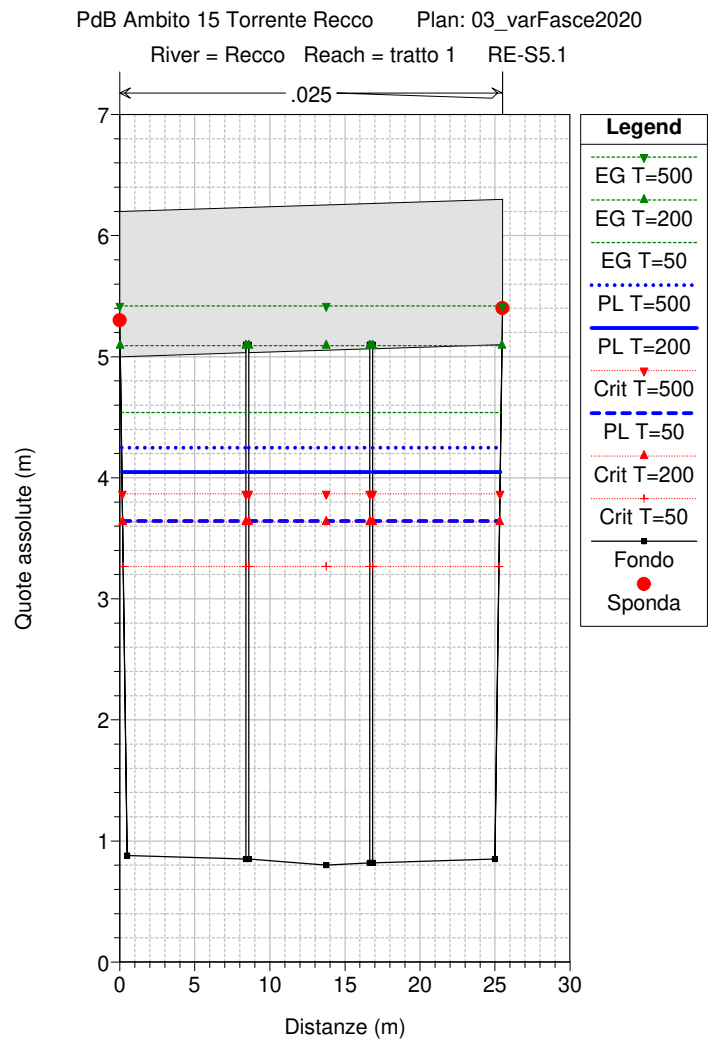
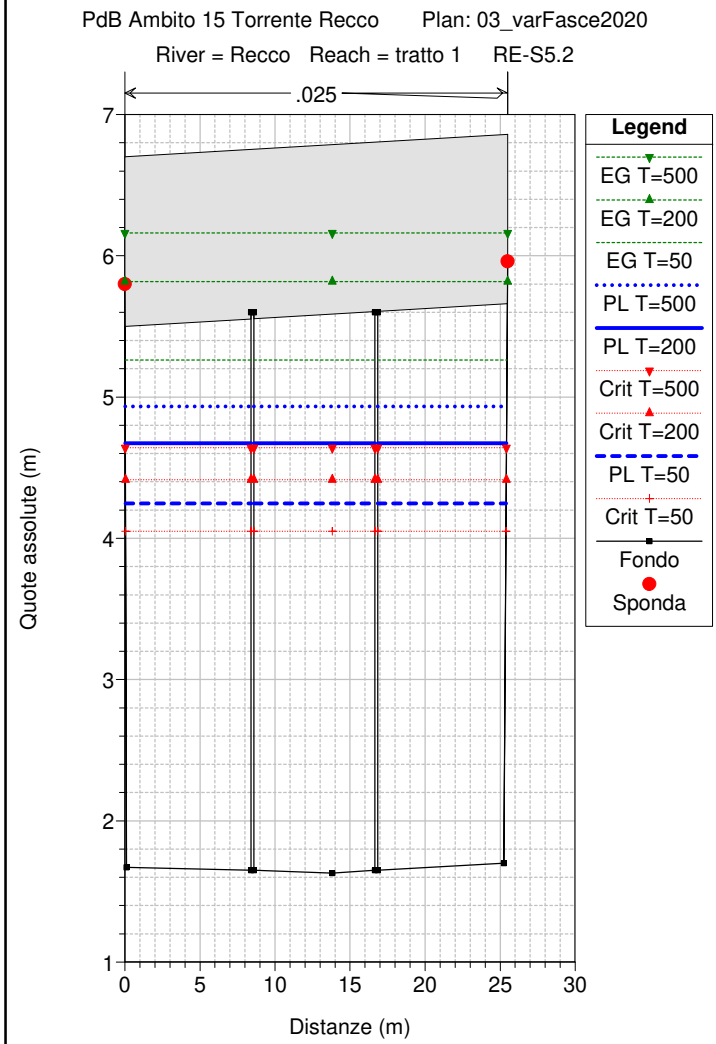
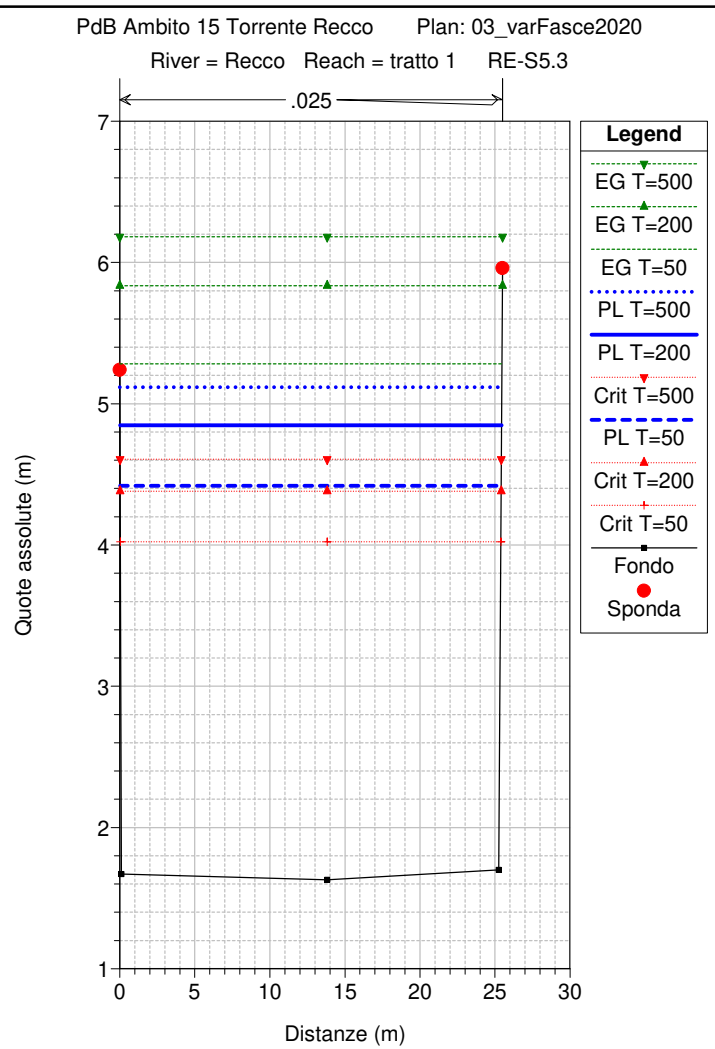
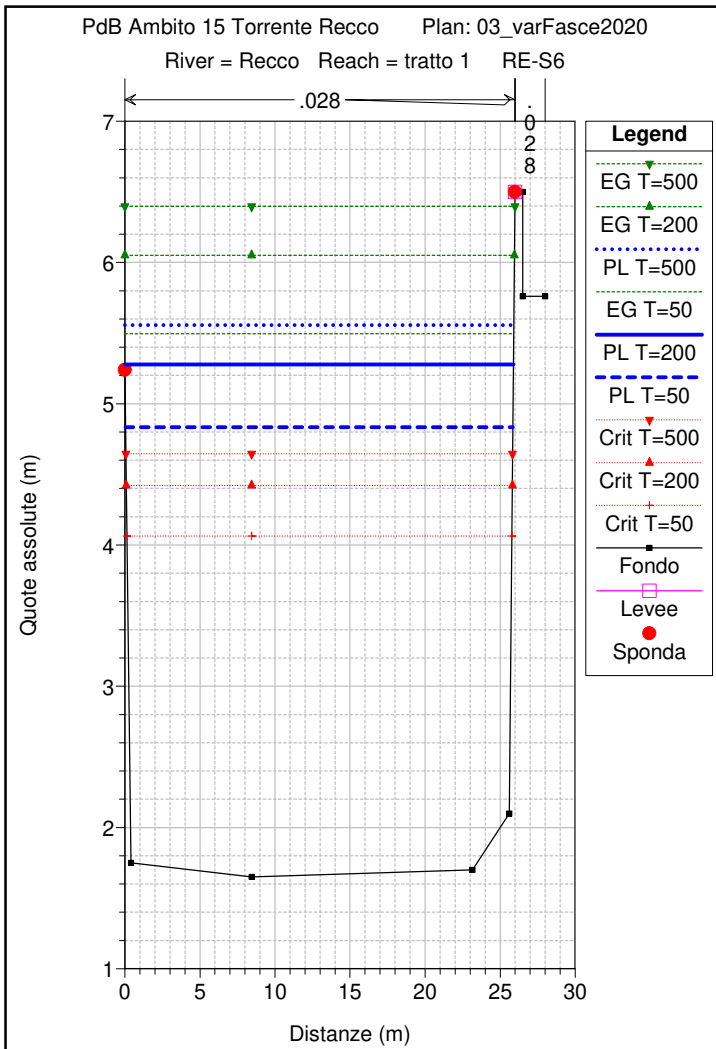


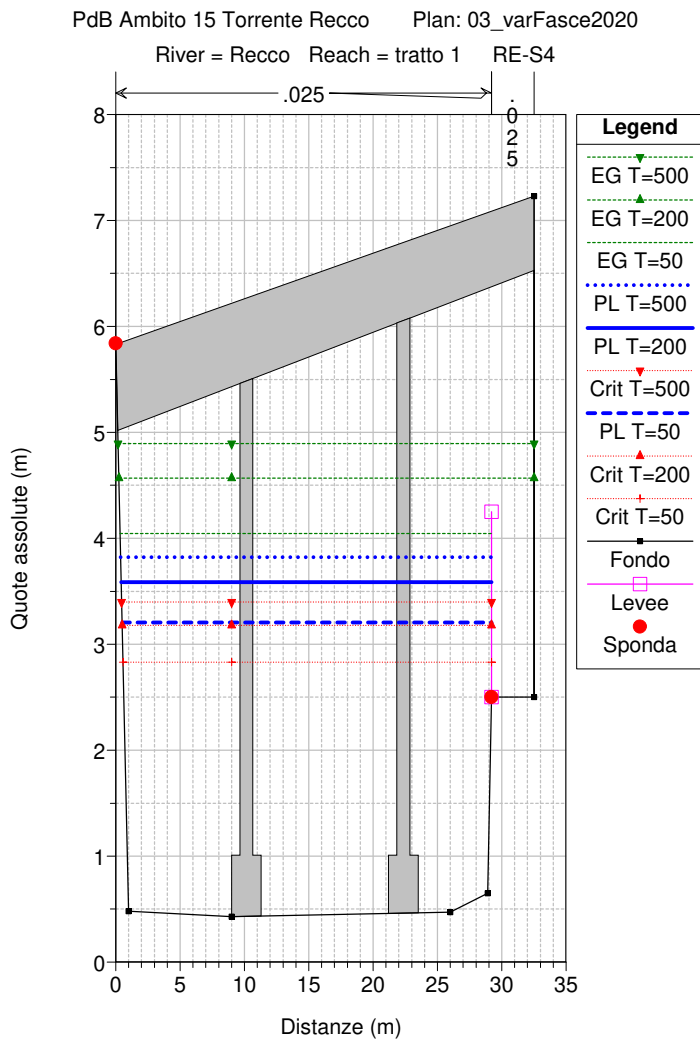
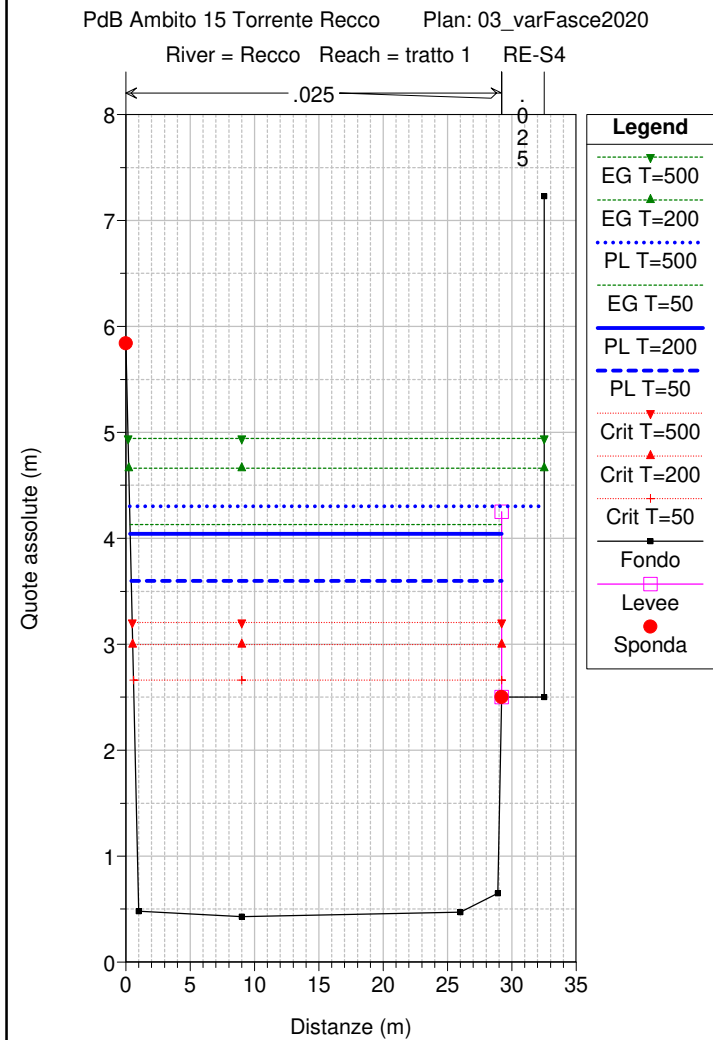
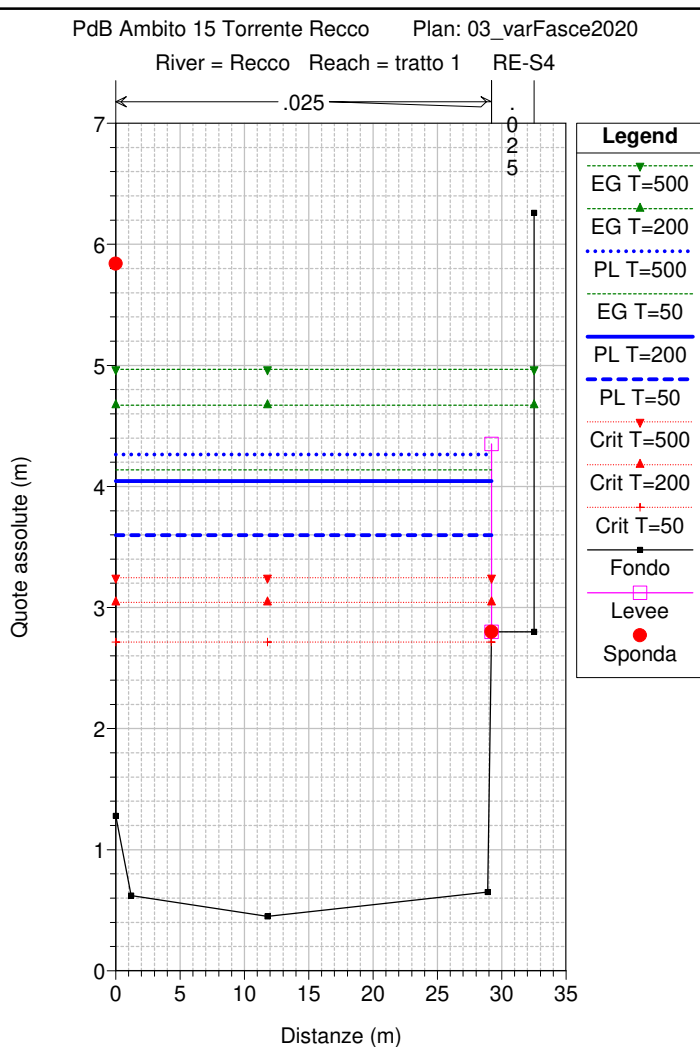
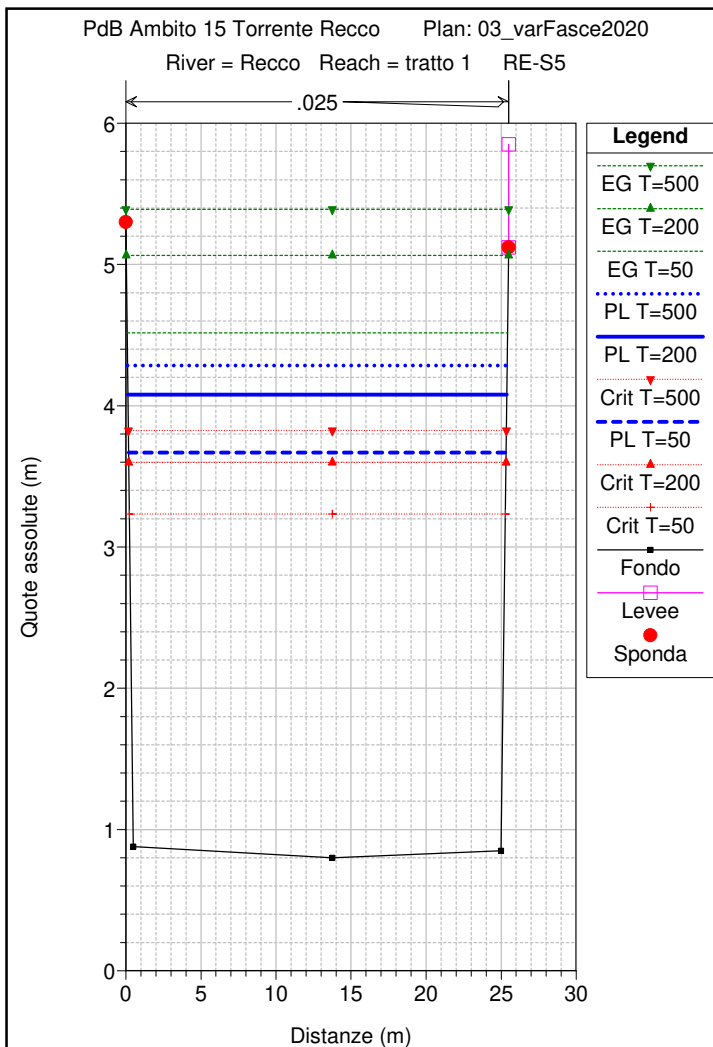


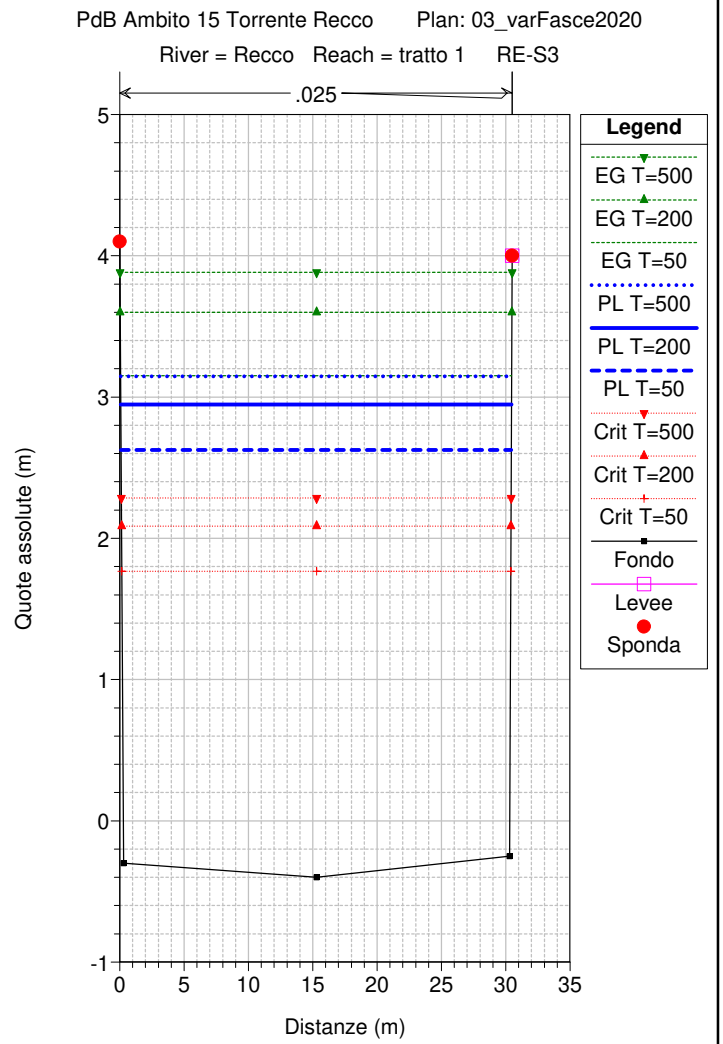
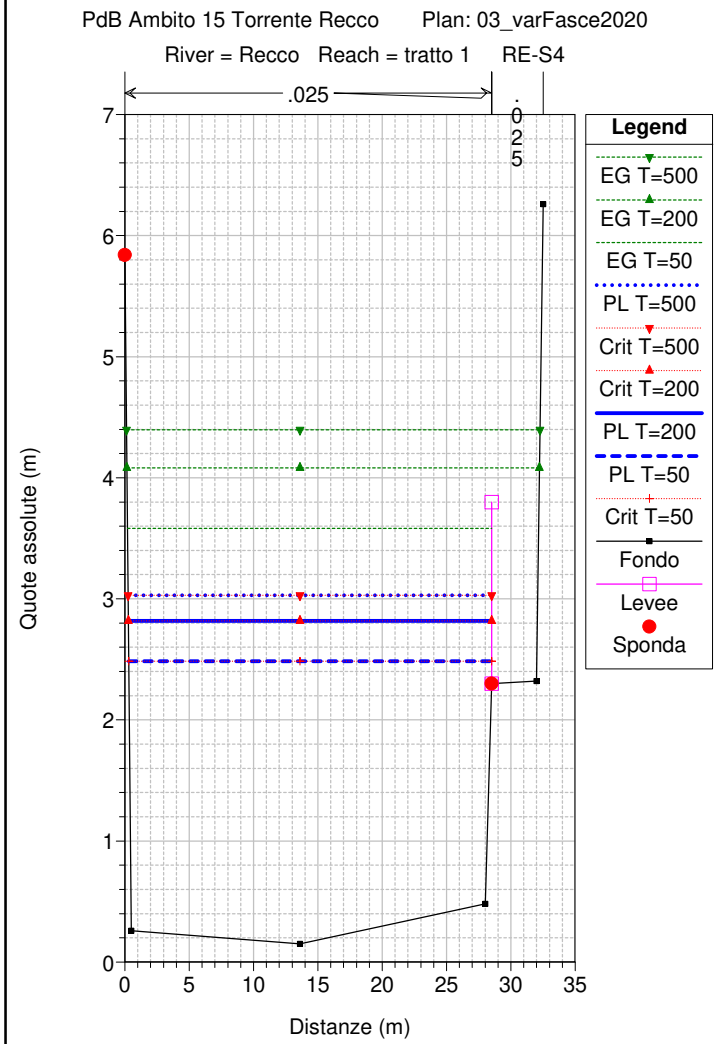
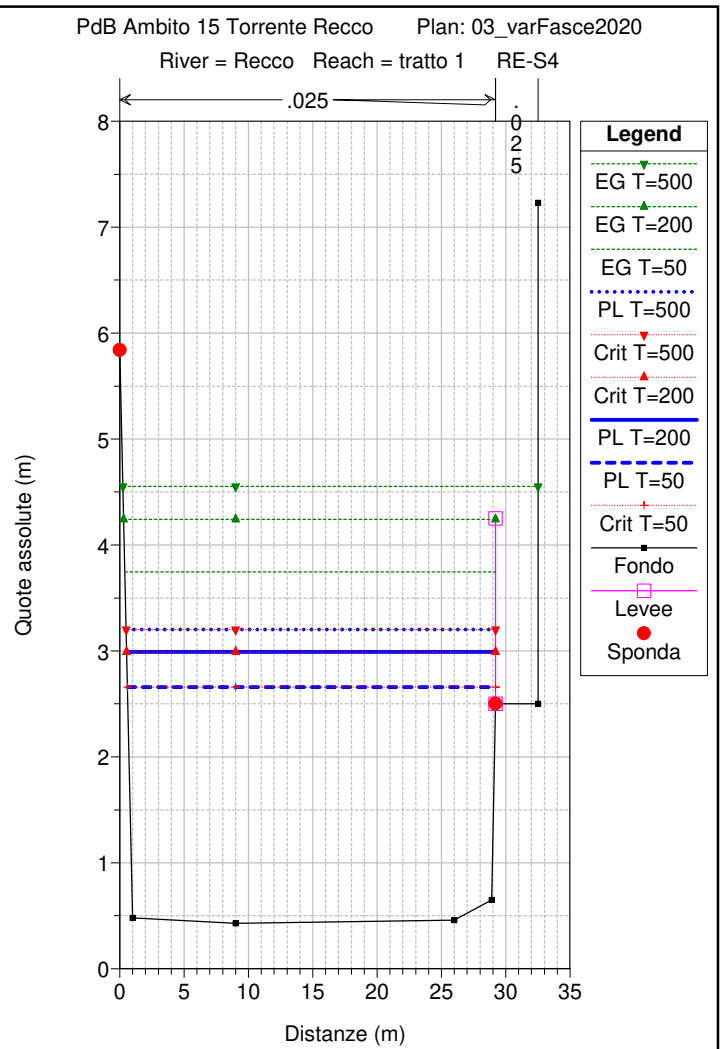
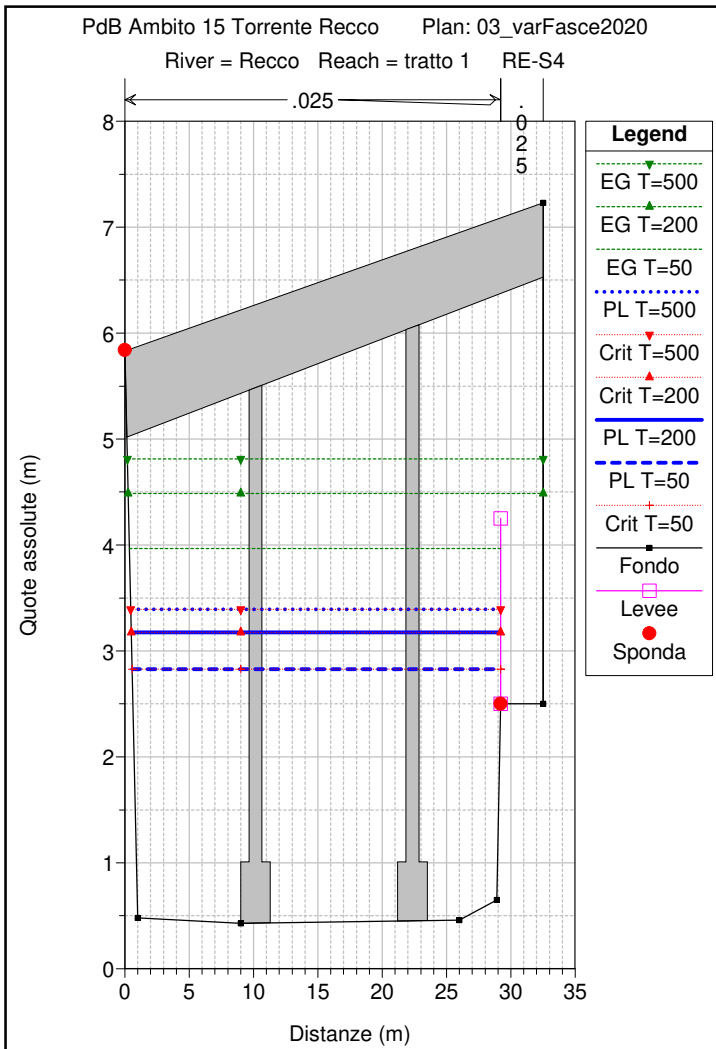


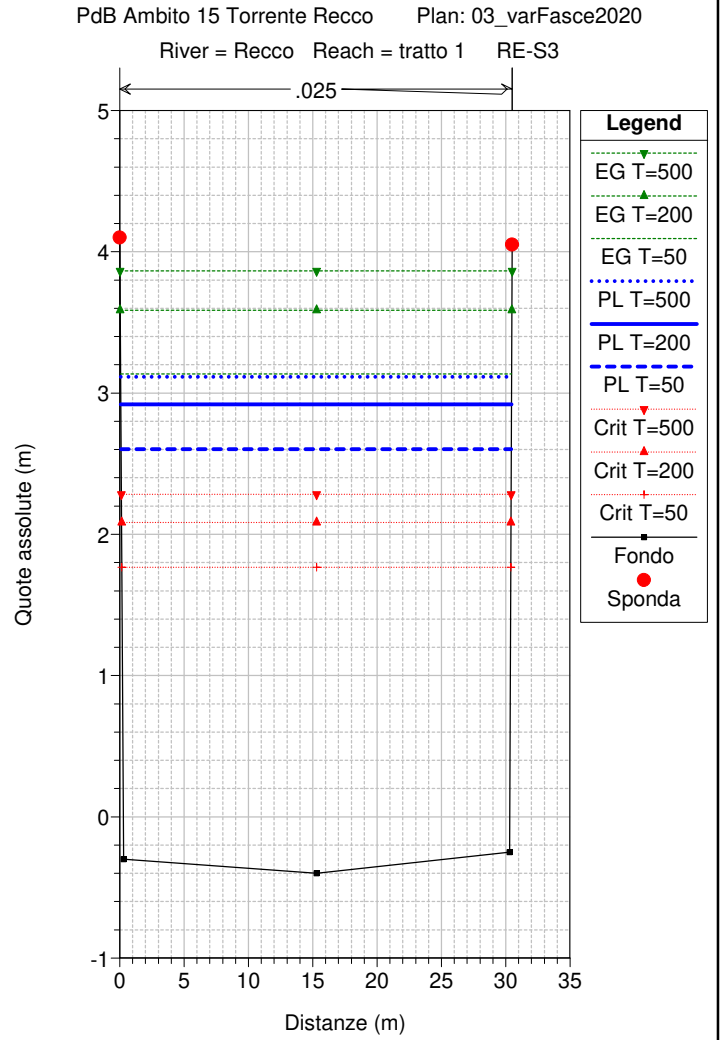
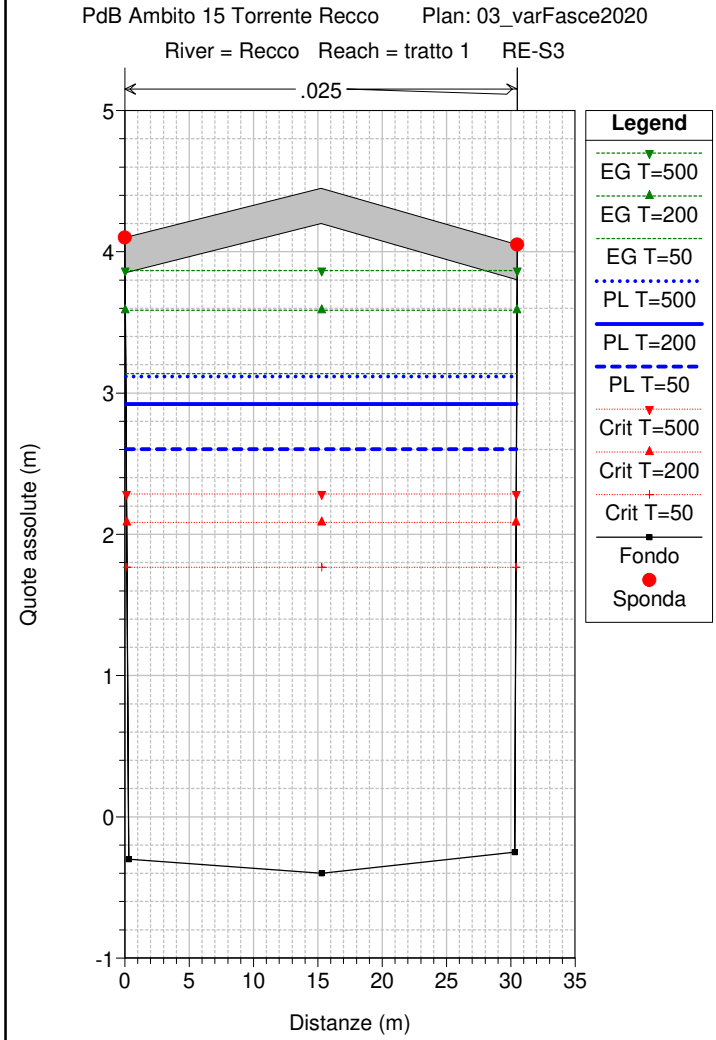
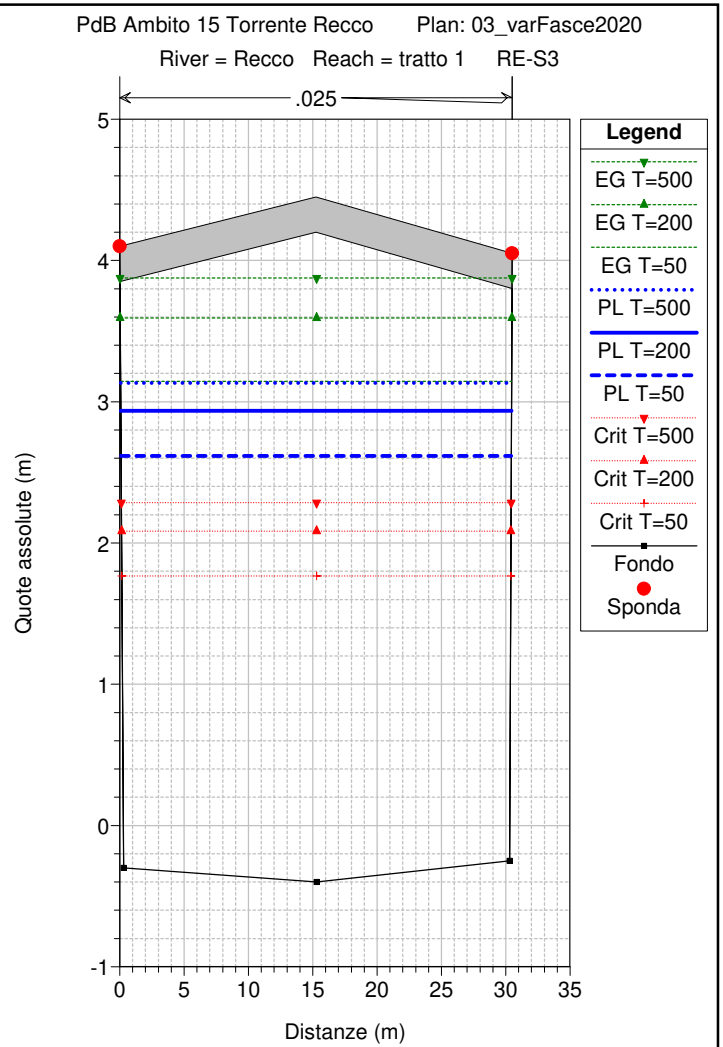
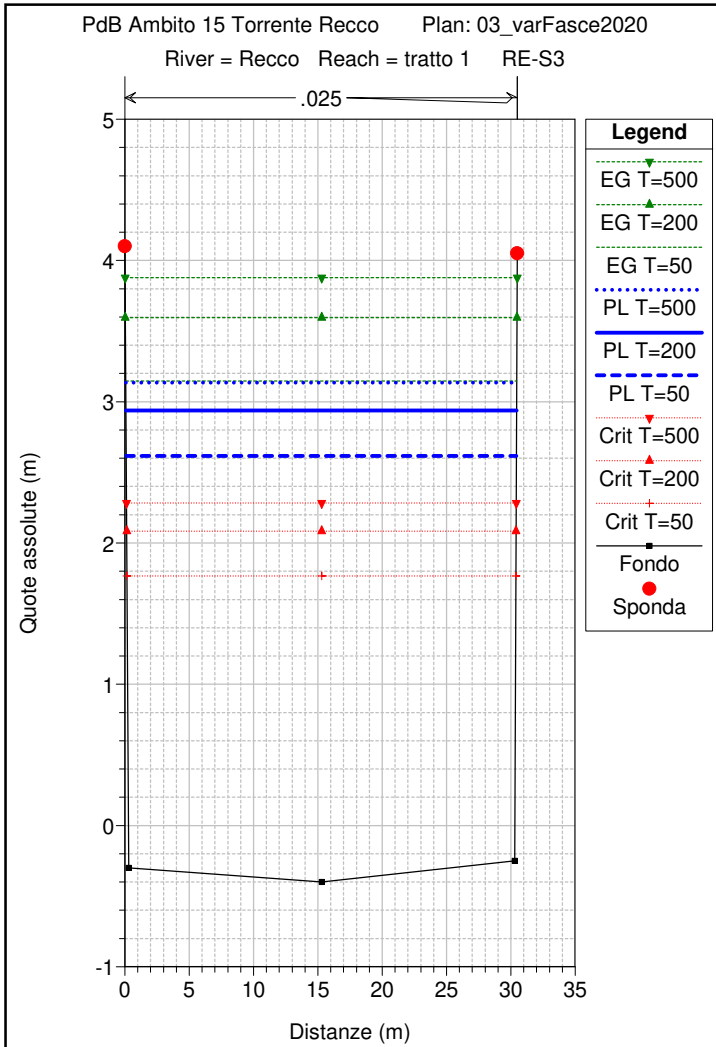


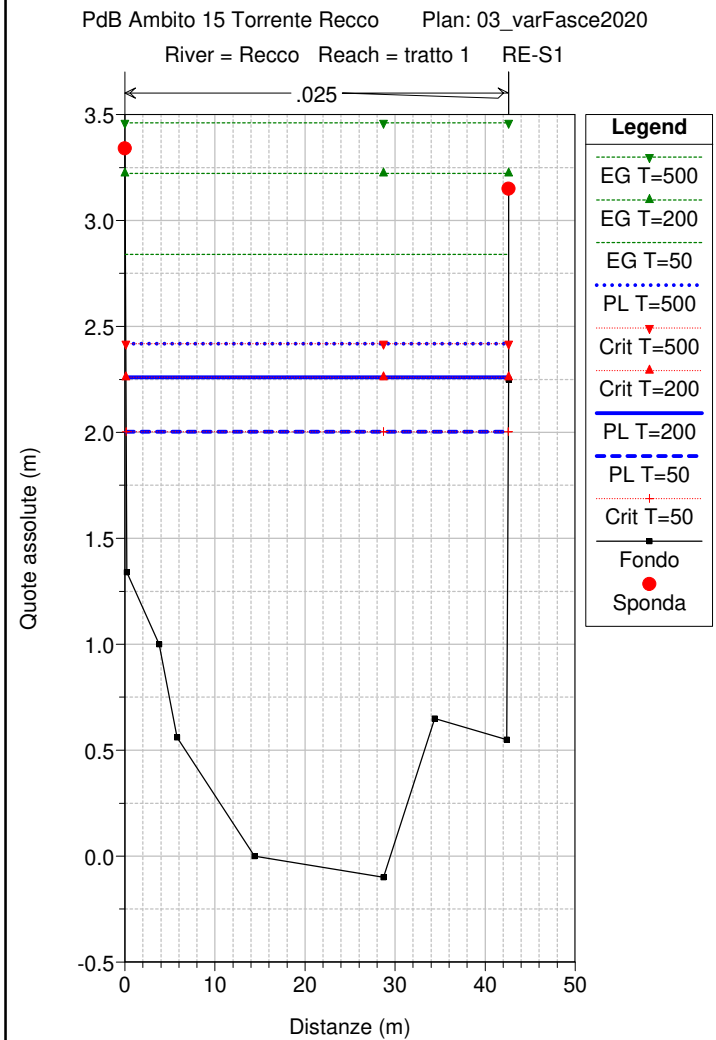
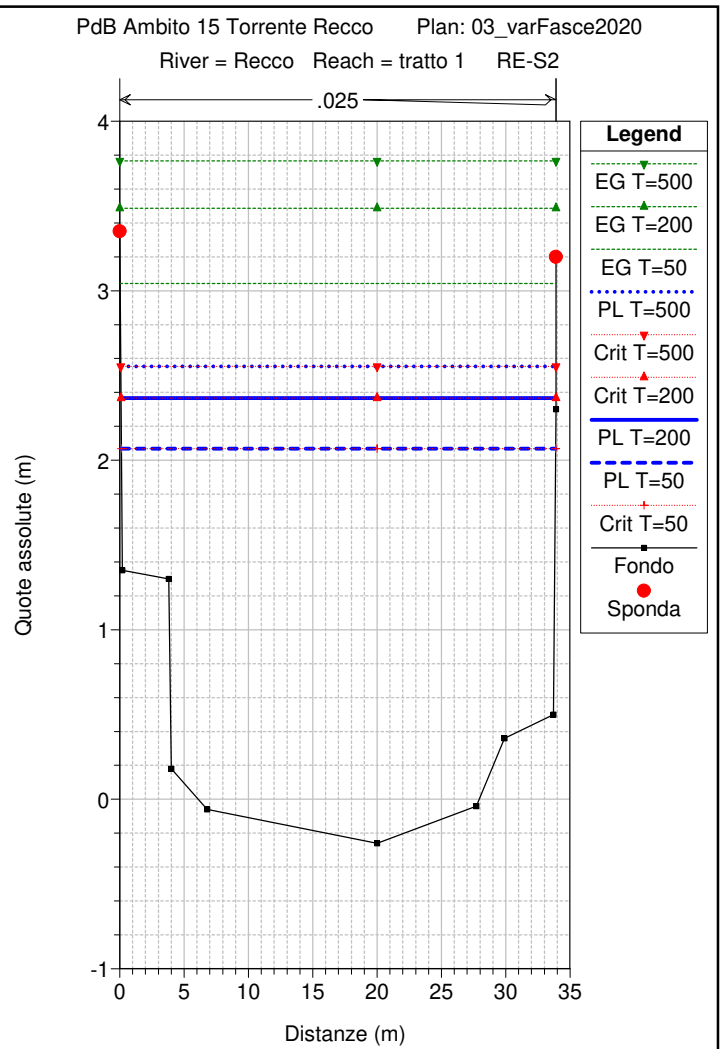
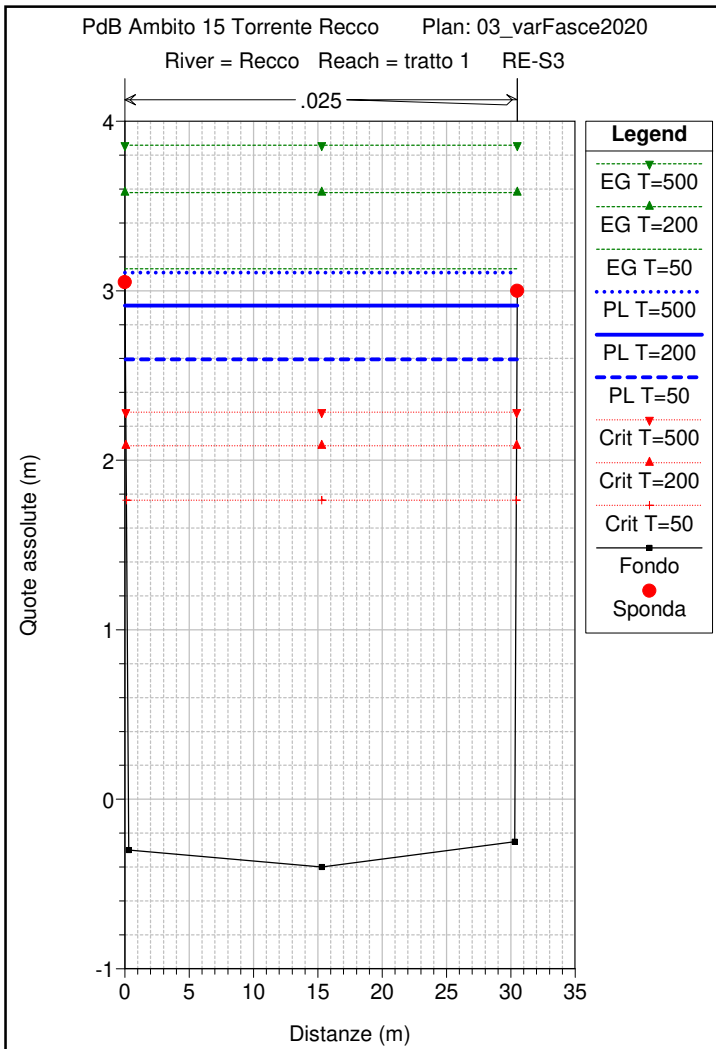












HEC-RAS Plan: 03_PdB_2020

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
tratto 2	33	RE-S33	T=50	257.00	14.80	18.71	23.99	5.28	20.50	1.79	17.96	19.26	0.002620	3.27	78.57	30.61	0.65
tratto 2	33	RE-S33	T=200	322.00	14.80	19.21	23.99	4.78	20.50	1.29	18.32	19.81	0.002359	3.43	94.01	30.88	0.63
tratto 2	33	RE-S33	T=500	364.00	14.80	19.52	23.99	4.47	20.50	0.98	18.58	20.15	0.002251	3.52	103.37	31.04	0.62
tratto 2	32.	RE-S 32	T=50	257.00	14.58	17.59	17.46	-0.13	20.00	2.41	17.59	18.72	0.006556	4.71	54.61	24.15	1.00
tratto 2	32.	RE-S 32	T=200	322.00	14.58	17.96	17.46	-0.50	20.00	2.04	17.96	19.27	0.006463	5.07	63.50	24.24	1.00
tratto 2	32.	RE-S 32	T=500	364.00	14.58	18.19	17.46	-0.73	20.00	1.81	18.19	19.60	0.006400	5.27	69.01	24.30	1.00
tratto 2	31.	RE-S 31	T=50	267.00	13.20	16.66	16.90	0.24	18.00	1.34	15.99	17.27	0.002860	3.45	77.42	28.35	0.67
tratto 2	31.	RE-S 31	T=200	332.00	13.20	17.20	16.90	-0.30	18.00	0.80	16.33	17.85	0.002552	3.57	92.88	29.02	0.64
tratto 2	31.	RE-S 31	T=500	376.00	13.20	17.54	16.90	-0.64	18.00	0.46	16.55	18.22	0.002423	3.66	102.71	29.43	0.63
tratto 2	30.	RE-S30	T=50	267.00	12.10	15.79	16.60	0.81	15.60	-0.19	15.62	16.94	0.005827	4.75	56.41	22.50	0.91
tratto 2	30.	RE-S30	T=200	332.00	12.10	16.25	16.60	0.35	15.60	-0.65	16.10	17.53	0.005471	5.03	67.19	23.50	0.89
tratto 2	30.	RE-S30	T=500	376.00	12.10	16.57	16.60	0.03	15.60	-0.97	16.36	17.91	0.005169	5.16	74.62	23.50	0.87
tratto 2	29.3	RE-S 29	T=50	267.00	12.15	15.53	16.00	0.47	15.00	-0.53	15.06	16.45	0.004183	4.25	62.81	20.73	0.78
tratto 2	29.3	RE-S 29	T=200	332.00	12.15	16.01	16.00	-0.01	15.00	-1.01	15.46	17.07	0.004162	4.56	72.79	20.85	0.78
tratto 2	29.3	RE-S 29	T=500	376.00	12.15	16.32	16.00	-0.32	15.00	-1.32	15.72	17.47	0.004134	4.74	79.34	20.85	0.78
tratto 2	29.2	RE-S 29	T=50	267.00	12.15	15.49	17.00	1.51	15.00	-0.49	15.06	16.44	0.004403	4.32	61.74	20.55	0.80
tratto 2	29.2	RE-S 29	T=200	332.00	12.15	15.95	17.00	1.05	15.00	-0.95	15.47	17.06	0.004427	4.66	71.29	20.64	0.80
tratto 2	29.2	RE-S 29	T=500	376.00	12.15	16.26	17.00	0.74	15.00	-1.26	15.73	17.46	0.004398	4.84	77.70	20.71	0.80
tratto 2	29.11	RE-S 29		Bridge													
tratto 2	29.1	RE-S 29	T=50	267.00	12.15	15.21	17.00	1.79	15.00	-0.21	15.06	16.37	0.005919	4.77	55.98	20.50	0.92
tratto 2	29.1	RE-S 29	T=200	332.00	12.15	15.63	17.00	1.37	15.00	-0.63	15.47	16.97	0.005905	5.13	64.73	20.58	0.92
tratto 2	29.1	RE-S 29	T=500	376.00	12.15	15.73	17.00	1.27	15.00	-0.73	15.73	17.35	0.006910	5.63	66.75	20.60	1.00
tratto 2	29.	RE-S 29	T=50	267.00	12.15	15.06	15.80	0.74	15.00	-0.06	15.06	16.34	0.006941	5.02	53.14	20.66	1.00
tratto 2	29.	RE-S 29	T=200	332.00	12.15	15.46	15.80	0.34	15.00	-0.46	15.46	16.95	0.006881	5.40	61.54	20.76	1.00
tratto 2	29.	RE-S 29	T=500	376.00	12.15	15.72	15.80	0.08	15.00	-0.72	15.72	17.33	0.006848	5.61	66.96	20.83	1.00
tratto 2	28.	RE- S28	T=50	267.00	11.32	14.00	16.00	2.00	12.30	-1.70	13.95	15.11	0.006357	4.66	57.31	24.15	0.97
tratto 2	28.	RE- S28	T=200	332.00	11.32	14.78	16.00	1.22	12.30	-2.48	14.31	15.75	0.004101	4.36	76.21	24.44	0.79
tratto 2	28.	RE- S28	T=500	376.00	11.32	14.97	16.00	1.03	12.30	-2.67	14.55	16.07	0.004402	4.65	80.83	24.51	0.82
tratto 2	27.3	RE-S 27	T=50	267.00	11.10	14.30	15.87	1.57	15.54	1.24	13.18	14.68	0.001590	2.72	98.05	32.79	0.50
tratto 2	27.3	RE-S 27	T=200	332.00	11.10	15.05	15.87	0.82	15.54	0.49	13.48	15.42	0.001232	2.71	122.65	33.26	0.45
tratto 2	27.3	RE-S 27	T=500	376.00	11.10	15.29	15.87	0.58	15.54	0.25	13.68	15.71	0.001302	2.88	130.66	33.41	0.46
tratto 2	27.2	RE-S 27	T=50	267.00	11.10	14.29	15.87	1.58	15.54	1.25	13.18	14.67	0.001610	2.73	97.66	32.79	0.51
tratto 2	27.2	RE-S 27	T=200	332.00	11.10	15.04	15.87	0.83	15.54	0.50	13.48	15.41	0.001241	2.71	122.37	33.25	0.45
tratto 2	27.2	RE-S 27	T=500	376.00	11.10	15.28	15.87	0.59	15.54	0.26	13.68	15.70	0.001311	2.88	130.36	33.41	0.47
tratto 2	27.11	RE-S 27		Bridge													
tratto 2	27.1	RE-S 27	T=50	267.00	11.10	13.53	15.87	2.34	15.54	2.01	13.18	14.21	0.004031	3.66	72.86	32.31	0.78
tratto 2	27.1	RE-S 27	T=200	332.00	11.10	14.63	15.87	1.24	15.54	0.91	13.48	15.10	0.001783	3.05	108.78	33.00	0.54
tratto 2	27.1	RE-S 27	T=500	376.00	11.10	14.97	15.87	0.90	15.54	0.57	13.68	15.47	0.001680	3.13	120.23	33.21	0.52

HEC-RAS Plan: 03_PdB_2020 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
tratto 2	27. RE-S 27	T=50	267.00	11.10	13.19	15.87	2.68	15.54	2.35	13.18	14.14	0.006728	4.31	61.98	32.09	0.99
tratto 2	27. RE-S 27	T=200	332.00	11.10	14.60	15.87	1.27	15.54	0.94	13.48	15.09	0.001823	3.07	107.99	32.98	0.54
tratto 2	27. RE-S 27	T=500	376.00	11.10	14.95	15.87	0.92	15.54	0.59	13.68	15.46	0.001712	3.15	119.49	33.20	0.53
tratto 2	26.3 RE-S26	T=50	267.00	9.65	13.07	14.10	1.03	15.60	2.53	12.37	13.76	0.003096	3.68	72.53	24.29	0.68
tratto 2	26.3 RE-S26	T=200	332.00	9.65	14.49	14.10	-0.39	15.60	1.11	12.74	14.97	0.001461	3.08	107.72	25.06	0.47
tratto 2	26.3 RE-S26	T=500	376.00	9.65	14.81	14.10	-0.71	15.60	0.79	12.98	15.35	0.001517	3.25	115.69	25.13	0.48
tratto 2	26.2 RE-S26	T=50	267.00	9.65	13.09	14.10	1.01	14.14	1.05	12.31	13.74	0.002900	3.57	74.79	24.55	0.65
tratto 2	26.2 RE-S26	T=200	332.00	9.65	14.50	14.10	-0.40	14.14	-0.36	12.68	14.97	0.001404	3.02	110.06	25.30	0.46
tratto 2	26.2 RE-S26	T=500	376.00	9.65	14.82	14.10	-0.72	14.14	-0.68	12.92	15.34	0.001460	3.18	118.12	25.30	0.47
tratto 2	26.11 RE-S26		Bridge													
tratto 2	26.1 RE-S26	T=50	267.00	9.65	12.86	14.10	1.24	14.14	1.28	12.31	13.62	0.003685	3.86	69.13	24.38	0.73
tratto 2	26.1 RE-S26	T=200	332.00	9.65	13.29	14.10	0.81	14.14	0.85	12.68	14.18	0.003701	4.17	79.67	24.69	0.74
tratto 2	26.1 RE-S26	T=500	376.00	9.65	13.88	14.10	0.22	14.14	0.26	12.92	14.69	0.002844	3.98	94.46	25.13	0.66
tratto 2	26. RE-S26	T=50	267.00	9.65	12.85	14.10	1.25	14.14	1.29	12.31	13.62	0.003743	3.88	68.78	24.37	0.74
tratto 2	26. RE-S26	T=200	332.00	9.65	13.28	14.10	0.82	14.14	0.86	12.68	14.17	0.003752	4.19	79.31	24.68	0.75
tratto 2	26. RE-S26	T=500	376.00	9.65	13.88	14.10	0.22	14.14	0.26	12.92	14.69	0.002863	3.99	94.24	25.12	0.66
tratto 2	25.3 RE-S 25	T=50	267.00	9.04	12.77	12.25	-0.52	14.00	1.23	11.58	13.22	0.001682	2.99	90.79	30.38	0.52
tratto 2	25.3 RE-S 25	T=200	332.00	9.04	13.22	12.25	-0.97	14.00	0.78	11.93	13.75	0.001713	3.25	104.56	30.42	0.53
tratto 2	25.3 RE-S 25	T=500	376.00	9.04	13.95	12.25	-1.70	14.00	0.05	12.15	14.41	0.001236	3.05	126.76	30.49	0.46
tratto 2	25.2 RE-S 25	T=50	267.00	9.04	12.76	12.25	-0.51	14.00	1.24	11.58	13.21	0.001696	3.00	90.53	30.38	0.52
tratto 2	25.2 RE-S 25	T=200	332.00	9.04	13.21	12.25	-0.96	14.00	0.79	11.93	13.75	0.001726	3.26	104.30	30.42	0.53
tratto 2	25.2 RE-S 25	T=500	376.00	9.04	13.94	12.25	-1.69	14.00	0.06	12.15	14.41	0.001241	3.06	126.59	30.49	0.46
tratto 2	25.11 RE-S 25		Bridge													
tratto 2	25.1 RE-S 25	T=50	267.00	9.04	11.94	12.25	0.31	14.00	2.06	11.58	12.75	0.004164	3.99	66.84	26.29	0.80
tratto 2	25.1 RE-S 25	T=200	332.00	9.04	12.35	12.25	-0.10	14.00	1.65	11.93	13.28	0.004006	4.27	78.20	30.34	0.79
tratto 2	25.1 RE-S 25	T=500	376.00	9.04	12.63	12.25	-0.38	14.00	1.37	12.15	13.61	0.003826	4.40	86.63	30.36	0.78
tratto 2	25. RE-S 25	T=50	267.00	9.04	11.85	12.25	0.40	14.00	2.15	11.58	12.72	0.004646	4.14	64.52	26.28	0.84
tratto 2	25. RE-S 25	T=200	332.00	9.04	12.27	12.25	-0.02	14.00	1.73	11.93	13.25	0.004398	4.39	75.66	30.33	0.83
tratto 2	25. RE-S 25	T=500	376.00	9.04	12.55	12.25	-0.30	14.00	1.45	12.15	13.59	0.004151	4.51	84.23	30.36	0.81
tratto 2	24. RE-S 24	T=50	267.00	8.16	11.60	10.65	-0.95	14.50	2.90	11.19	12.47	0.004129	4.12	65.39	24.95	0.80
tratto 2	24. RE-S 24	T=200	332.00	8.16	11.96	10.65	-1.31	14.50	2.54	11.61	13.00	0.004255	4.51	74.47	25.12	0.83
tratto 2	24. RE-S 24	T=500	376.00	8.16	12.20	10.65	-1.55	14.50	2.30	11.84	13.34	0.004294	4.73	80.45	25.23	0.84
tratto 2	23. RE-S23	T=50	267.00	8.32	11.17	10.52	-0.65	15.75	4.58	11.17	12.27	0.006239	4.66	58.07	26.69	0.98
tratto 2	23. RE-S23	T=200	332.00	8.32	11.52	10.52	-1.00	15.75	4.23	11.52	12.79	0.006108	5.02	67.28	26.74	0.99
tratto 2	23. RE-S23	T=500	376.00	8.32	11.74	10.52	-1.22	15.75	4.01	11.74	13.12	0.006030	5.23	73.19	26.78	0.99
tratto 2	22. RE-S22	T=50	267.00	8.10	10.35	12.00	1.65	13.28	2.93	10.35	11.23	0.006896	4.17	64.09	36.31	1.00
tratto 2	22. RE-S22	T=200	332.00	8.10	10.63	12.00	1.37	13.28	2.65	10.63	11.65	0.006676	4.48	74.18	36.33	1.00
tratto 2	22. RE-S22	T=500	376.00	8.10	10.80	12.00	1.20	13.28	2.48	10.80	11.91	0.006571	4.66	80.60	36.33	1.00

HEC-RAS Plan: 03_PdB_2020 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
tratto 2	21. RE-S21	T=50	267.00	7.93	10.18	11.80	1.62	12.42	2.24	9.91	10.84	0.004352	3.59	74.34	36.52	0.80
tratto 2	21. RE-S21	T=200	332.00	7.93	10.61	11.80	1.19	12.42	1.81	10.18	11.31	0.003658	3.69	90.04	36.62	0.75
tratto 2	21. RE-S21	T=500	376.00	7.93	10.91	11.80	0.89	12.42	1.51	10.36	11.62	0.003275	3.73	100.88	36.69	0.72
tratto 2	20.3 RE-S20	T=50	267.00	6.70	9.83	12.00	2.17	11.10	1.27	8.93	10.25	0.002105	2.89	92.25	35.00	0.57
tratto 2	20.3 RE-S20	T=200	332.00	6.70	10.32	12.00	1.68	11.10	0.78	9.23	10.79	0.001889	3.03	109.70	35.00	0.55
tratto 2	20.3 RE-S20	T=500	376.00	6.70	10.65	12.00	1.35	11.10	0.45	9.46	11.14	0.001781	3.11	121.08	35.00	0.53
tratto 2	20.2 RE-S20	T=50	267.00	6.70	9.82	12.00	2.18	11.10	1.28	8.93	10.25	0.002112	2.90	92.15	35.00	0.57
tratto 2	20.2 RE-S20	T=200	332.00	6.70	10.32	12.00	1.68	11.10	0.78	9.23	10.79	0.001894	3.03	109.61	35.00	0.55
tratto 2	20.2 RE-S20	T=500	376.00	6.70	10.65	12.00	1.35	11.10	0.45	9.46	11.14	0.001785	3.11	120.99	35.00	0.53
tratto 2	20.11 RE-S20		Bridge													
tratto 2	20.1 RE-S20	T=50	267.00	6.70	9.79	12.00	2.21	11.10	1.31	8.93	10.23	0.002209	2.94	90.85	35.00	0.58
tratto 2	20.1 RE-S20	T=200	332.00	6.70	10.29	12.00	1.71	11.10	0.81	9.23	10.77	0.001955	3.06	108.50	35.00	0.55
tratto 2	20.1 RE-S20	T=500	376.00	6.70	10.60	12.00	1.40	11.10	0.50	9.46	11.10	0.001865	3.15	119.30	35.00	0.55
tratto 2	20. RE-S20	T=50	267.00	6.70	9.78	12.00	2.22	11.10	1.32	8.93	10.22	0.002226	2.95	90.63	35.00	0.58
tratto 2	20. RE-S20	T=200	332.00	6.70	10.28	12.00	1.72	11.10	0.82	9.23	10.76	0.001965	3.07	108.32	35.00	0.56
tratto 2	20. RE-S20	T=500	376.00	6.70	10.59	12.00	1.41	11.10	0.51	9.46	11.10	0.001874	3.16	119.12	35.00	0.55
tratto 2	19. RE-S19	T=50	267.00	6.11	9.71	11.70	1.99	10.70	0.99	8.58	10.06	0.001460	2.63	101.66	34.55	0.49
tratto 2	19. RE-S19	T=200	332.00	6.11	10.22	11.70	1.48	10.70	0.48	8.87	10.62	0.001367	2.78	119.45	34.72	0.48
tratto 2	19. RE-S19	T=500	376.00	6.11	10.53	11.70	1.17	10.70	0.17	9.05	10.96	0.001342	2.89	130.27	34.83	0.48
tratto 1	18 RE-S18	T=50	280.00	6.10	9.28	11.30	2.02	10.62	1.34	8.39	9.78	0.002188	3.14	89.30	30.55	0.59
tratto 1	18 RE-S18	T=200	349.00	6.10	9.80	11.30	1.50	10.62	0.82	8.72	10.36	0.002051	3.32	105.16	30.74	0.57
tratto 1	18 RE-S18	T=500	394.00	6.10	10.12	11.30	1.18	10.62	0.50	8.92	10.72	0.001979	3.42	115.16	30.85	0.57
tratto 1	17 RE-S17	T=50	287.00	5.40	8.32	11.35	3.03	10.20	1.88	8.28	9.53	0.006484	4.87	58.90	23.21	0.98
tratto 1	17 RE-S17	T=200	355.00	5.40	8.72	11.35	2.63	10.20	1.48	8.66	10.10	0.006318	5.20	68.25	23.25	0.97
tratto 1	17 RE-S17	T=500	400.00	5.40	9.05	11.35	2.30	10.20	1.15	8.90	10.47	0.005797	5.27	75.95	23.28	0.93
tratto 1	16.3 RE-S16	T=50	287.00	4.75	8.00	10.65	2.65	9.75	1.75	7.51	8.89	0.004189	4.18	68.74	22.82	0.77
tratto 1	16.3 RE-S16	T=200	355.00	4.75	8.45	10.65	2.20	9.75	1.30	7.90	9.48	0.004201	4.49	79.01	22.87	0.77
tratto 1	16.3 RE-S16	T=500	400.00	4.75	8.73	10.65	1.92	9.75	1.02	8.14	9.85	0.004214	4.68	85.44	22.90	0.77
tratto 1	16.2 RE-S16	T=50	287.00	4.75	7.99	10.65	2.66	9.75	1.76	7.51	8.89	0.004221	4.19	68.57	22.82	0.77
tratto 1	16.2 RE-S16	T=200	355.00	4.75	8.44	10.65	2.21	9.75	1.31	7.90	9.48	0.004229	4.50	78.84	22.87	0.77
tratto 1	16.2 RE-S16	T=500	400.00	4.75	8.72	10.65	1.93	9.75	1.03	8.14	9.84	0.004241	4.69	85.27	22.90	0.78
tratto 1	16.11 RE-S16		Bridge													
tratto 1	16.1 RE-S16	T=50	287.00	4.75	7.75	10.65	2.90	9.75	2.00	7.51	8.81	0.005480	4.56	62.96	22.80	0.88
tratto 1	16.1 RE-S16	T=200	355.00	4.75	8.21	10.65	2.44	9.75	1.54	7.90	9.40	0.005242	4.83	73.43	22.84	0.86
tratto 1	16.1 RE-S16	T=500	400.00	4.75	8.46	10.65	2.19	9.75	1.29	8.14	9.76	0.005305	5.05	79.15	22.87	0.87
tratto 1	16.0 RE-S16	T=50	287.00	4.75	7.64	10.65	3.01	9.75	2.11	7.51	8.79	0.006197	4.74	60.49	22.79	0.93
tratto 1	16.0 RE-S16	T=200	355.00	4.75	8.12	10.65	2.53	9.75	1.63	7.90	9.38	0.005696	4.97	71.46	22.83	0.90
tratto 1	16.0 RE-S16	T=500	400.00	4.75	8.40	10.65	2.25	9.75	1.35	8.14	9.74	0.005572	5.14	77.87	22.86	0.89

HEC-RAS Plan: 03_PdB_2020 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl	
tratto 1	15.3	RE-S15	T=50	287.00	4.20	7.79	10.55	2.76	9.70	1.91	7.07	8.55	0.003354	3.86	74.26	22.99	0.69
tratto 1	15.3	RE-S15	T=200	355.00	4.20	8.26	10.55	2.29	9.70	1.44	7.45	9.15	0.003388	4.17	85.20	23.02	0.69
tratto 1	15.3	RE-S15	T=500	400.00	4.20	8.54	10.55	2.01	9.70	1.16	7.69	9.52	0.003456	4.36	91.66	23.03	0.70
tratto 1	15.2	RE-S15	T=50	287.00	4.20	7.78	10.55	2.77	9.70	1.92	7.07	8.55	0.003371	3.87	74.13	22.99	0.69
tratto 1	15.2	RE-S15	T=200	355.00	4.20	8.26	10.55	2.29	9.70	1.44	7.45	9.15	0.003403	4.17	85.07	23.02	0.69
tratto 1	15.2	RE-S15	T=500	400.00	4.20	8.54	10.55	2.01	9.70	1.16	7.69	9.51	0.003471	4.37	91.53	23.03	0.70
tratto 1	15.11	RE-S15	Bridge														
tratto 1	15.1	RE-S15	T=50	287.00	4.20	7.36	10.55	3.19	9.70	2.34	7.07	8.37	0.005165	4.45	64.47	22.97	0.85
tratto 1	15.1	RE-S15	T=200	355.00	4.20	7.76	10.55	2.79	9.70	1.94	7.45	8.95	0.005282	4.83	73.56	22.99	0.86
tratto 1	15.1	RE-S15	T=500	400.00	4.20	8.01	10.55	2.54	9.70	1.69	7.69	9.30	0.005343	5.05	79.29	23.00	0.87
tratto 1	15.0	RE-S15	T=50	287.00	4.20	7.32	10.55	3.23	9.70	2.38	7.07	8.36	0.005427	4.52	63.43	22.96	0.87
tratto 1	15.0	RE-S15	T=200	355.00	4.20	7.71	10.55	2.84	9.70	1.99	7.45	8.93	0.005550	4.91	72.37	22.99	0.88
tratto 1	15.0	RE-S15	T=500	400.00	4.20	7.95	10.55	2.60	9.70	1.75	7.69	9.29	0.005617	5.13	77.98	23.00	0.89
tratto 1	14	RE-S14	T=50	287.00	4.40	7.31	10.00	2.69	9.40	2.09	6.81	8.06	0.003813	3.84	74.79	27.18	0.74
tratto 1	14	RE-S14	T=200	355.00	4.40	7.77	10.00	2.23	9.40	1.63	7.15	8.61	0.003644	4.08	87.08	27.23	0.73
tratto 1	14	RE-S14	T=500	400.00	4.40	8.05	10.00	1.95	9.40	1.35	7.37	8.96	0.003566	4.22	94.79	27.26	0.72
tratto 1	13.3	RE-S13	T=50	287.00	4.00	7.19	9.90	2.71	9.03	1.84	6.53	7.89	0.003181	3.71	77.30	26.20	0.69
tratto 1	13.3	RE-S13	T=200	355.00	4.00	7.63	9.90	2.27	9.03	1.40	6.89	8.44	0.003162	3.99	89.00	26.31	0.69
tratto 1	13.3	RE-S13	T=500	400.00	4.00	7.91	9.90	1.99	9.03	1.12	7.11	8.79	0.003156	4.15	96.34	26.39	0.69
tratto 1	13.2	RE-S13	T=50	287.00	4.00	7.17	9.90	2.73	9.03	1.86	6.53	7.88	0.003220	3.73	76.99	26.19	0.69
tratto 1	13.2	RE-S13	T=200	355.00	4.00	7.62	9.90	2.28	9.03	1.41	6.89	8.44	0.003195	4.00	88.69	26.31	0.70
tratto 1	13.2	RE-S13	T=500	400.00	4.00	7.90	9.90	2.00	9.03	1.13	7.11	8.78	0.003187	4.17	96.03	26.39	0.70
tratto 1	13.11	RE-S13	Bridge														
tratto 1	13.1	RE-S13	T=50	287.00	4.00	6.84	9.00	2.16	9.80	2.96	6.53	7.74	0.004664	4.20	68.29	26.10	0.83
tratto 1	13.1	RE-S13	T=200	355.00	4.00	7.25	9.00	1.75	9.80	2.55	6.89	8.28	0.004549	4.49	79.02	26.21	0.83
tratto 1	13.1	RE-S13	T=500	400.00	4.00	7.51	9.00	1.49	9.80	2.29	7.11	8.62	0.004480	4.66	85.85	26.28	0.82
tratto 1	13.0	RE-S13	T=50	287.00	4.00	6.76	9.00	2.24	9.80	3.04	6.53	7.72	0.005172	4.35	66.05	26.08	0.87
tratto 1	13.0	RE-S13	T=200	355.00	4.00	7.18	9.00	1.82	9.80	2.62	6.89	8.26	0.004920	4.61	77.03	26.19	0.86
tratto 1	13.0	RE-S13	T=500	400.00	4.00	7.44	9.00	1.56	9.80	2.36	7.11	8.60	0.004797	4.76	83.95	26.26	0.85
tratto 1	12	RE-S12	T=50	287.00	3.90	6.63	8.70	2.07	9.00	2.38	6.31	7.52	0.004761	4.19	68.48	26.24	0.83
tratto 1	12	RE-S12	T=200	355.00	3.90	7.06	8.70	1.64	9.00	1.94	6.67	8.07	0.004526	4.44	79.88	26.33	0.81
tratto 1	12	RE-S12	T=500	400.00	3.90	7.33	8.70	1.37	9.00	1.67	6.89	8.41	0.004407	4.59	87.10	26.38	0.81
tratto 1	11	RE-S11	T=50	287.00	3.60	6.50	8.50	2.00	8.50	2.00	6.13	7.39	0.004460	4.17	68.82	25.07	0.80
tratto 1	11	RE-S11	T=200	355.00	3.60	6.90	8.50	1.60	8.50	1.60	6.49	7.94	0.004504	4.51	78.79	25.18	0.81
tratto 1	11	RE-S11	T=500	400.00	3.60	7.15	8.50	1.35	8.50	1.35	6.72	8.28	0.004524	4.70	85.08	25.25	0.82
tratto 1	10.992		Lat Struct														
tratto 1	10.991		Lat Struct														

HEC-RAS Plan: 03_PdB_2020 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
tratto 1	10 RE-S10	T=50	287.00	2.90	5.95	7.20	1.25	8.00	2.05	5.49	6.76	0.003794	3.99	71.89	26.05	0.77
tratto 1	10 RE-S10	T=200	355.00	2.90	6.34	7.20	0.86	8.00	1.66	5.85	7.29	0.003845	4.32	82.22	26.14	0.78
tratto 1	10 RE-S10	T=500	400.00	2.90	6.59	7.20	0.61	8.00	1.41	6.07	7.63	0.003862	4.50	88.80	26.19	0.78
tratto 1	9.992		Lat Struct													
tratto 1	9.991		Lat Struct													
tratto 1	9 RE-S9	T=50	287.00	2.40	5.37	6.66	1.29	8.08	2.71	4.81	6.13	0.003524	3.85	74.49	25.93	0.73
tratto 1	9 RE-S9	T=200	355.00	2.40	5.82	6.66	0.84	8.08	2.26	5.17	6.68	0.003464	4.13	86.06	26.02	0.72
tratto 1	9 RE-S9	T=500	400.00	2.40	6.14	6.66	0.52	8.08	1.94	5.39	7.05	0.003323	4.24	94.37	26.08	0.71
tratto 1	8.992		Lat Struct													
tratto 1	8.991		Lat Struct													
tratto 1	8.3 RE-S8	T=50	287.00	2.25	5.24	6.61	1.37	8.00	2.76	4.69	6.00	0.003631	3.85	74.47	26.04	0.73
tratto 1	8.3 RE-S8	T=200	355.00	2.25	5.70	6.61	0.91	8.00	2.30	5.05	6.56	0.003520	4.11	86.39	26.13	0.72
tratto 1	8.3 RE-S8	T=500	400.00	2.25	6.04	6.61	0.57	8.00	1.96	5.27	6.94	0.003324	4.20	95.21	26.20	0.70
tratto 1	8.2 RE-S8	T=50	287.00	2.23	5.24	6.72	1.48	6.81	1.57	4.67	5.99	0.003555	3.83	74.98	26.10	0.72
tratto 1	8.2 RE-S8	T=200	355.00	2.23	5.70	6.72	1.02	6.81	1.11	5.03	6.55	0.003451	4.08	86.96	26.20	0.72
tratto 1	8.2 RE-S8	T=500	400.00	2.23	6.04	6.72	0.68	6.81	0.77	5.25	6.92	0.003260	4.17	95.82	26.28	0.70
tratto 1	8.11		Bridge													
tratto 1	8.1 RE-S8	T=50	287.00	2.14	5.21	6.72	1.51	6.81	1.60	4.58	5.93	0.003344	3.75	76.48	26.10	0.70
tratto 1	8.1 RE-S8	T=200	355.00	2.14	5.67	6.72	1.05	6.81	1.14	4.94	6.49	0.003270	4.01	88.50	26.20	0.70
tratto 1	8.1 RE-S8	T=500	400.00	2.14	5.96	6.72	0.76	6.81	0.85	5.16	6.84	0.003233	4.16	96.09	26.27	0.70
tratto 1	8.0 RE-S8	T=50	287.00	2.10	5.20	6.70	1.50	6.46	1.26	4.54	5.90	0.003233	3.71	77.33	26.13	0.69
tratto 1	8.0 RE-S8	T=200	355.00	2.10	5.66	6.70	1.04	6.46	0.80	4.90	6.46	0.003173	3.97	89.38	26.24	0.69
tratto 1	8.0 RE-S8	T=500	400.00	2.10	5.95	6.70	0.75	6.46	0.51	5.12	6.82	0.003143	4.12	96.99	26.30	0.69
tratto 1	7.992		Lat Struct													
tratto 1	7.991		Lat Struct													
tratto 1	7 RE-S7	T=50	287.00	1.86	5.24	5.90	0.66	6.60	1.36	4.15	5.74	0.002042	3.14	91.51	27.82	0.55
tratto 1	7 RE-S7	T=200	355.00	1.86	5.71	5.90	0.19	6.60	0.89	4.49	6.30	0.002071	3.39	104.68	27.90	0.56
tratto 1	7 RE-S7	T=500	400.00	1.86	6.01	5.90	-0.11	6.60	0.59	4.71	6.65	0.002087	3.54	112.97	27.95	0.56
tratto 1	6.992		Lat Struct													
tratto 1	6.991		Lat Struct													
tratto 1	6 RE-S6	T=50	287.00	1.65	4.83	5.24	0.41	6.50	1.67	4.06	5.49	0.002892	3.60	79.74	25.80	0.65
tratto 1	6 RE-S6	T=200	355.00	1.65	5.28	5.24	-0.04	6.50	1.22	4.42	6.05	0.002935	3.89	91.21	25.89	0.66
tratto 1	6 RE-S6	T=500	400.00	1.65	5.56	5.24	-0.32	6.50	0.94	4.65	6.40	0.002960	4.06	98.41	25.91	0.67
tratto 1	5.992		Lat Struct													

HEC-RAS Plan: 03_PdB_2020 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
tratto 1	5.991		Lat Struct													
tratto 1	5.3 RE-S5.3	T=50	287.00	1.63	4.42	5.24	0.82	5.96	1.54	4.02	5.28	0.003520	4.11	69.82	25.39	0.79
tratto 1	5.3 RE-S5.3	T=200	355.00	1.63	4.85	5.24	0.39	5.96	1.11	4.38	5.83	0.003449	4.40	80.69	25.42	0.79
tratto 1	5.3 RE-S5.3	T=500	400.00	1.63	5.12	5.24	0.12	5.96	0.84	4.61	6.18	0.003416	4.57	87.52	25.45	0.79
tratto 1	5.2 RE-S5.2	T=50	287.00	1.63	4.25	5.50	1.25	5.66	1.41	4.05	5.26	0.006654	4.46	64.35	24.96	0.89
tratto 1	5.2 RE-S5.2	T=200	355.00	1.63	4.67	5.50	0.83	5.66	0.99	4.41	5.82	0.006636	4.73	74.99	25.00	0.87
tratto 1	5.2 RE-S5.2	T=500	400.00	1.63	4.93	5.50	0.57	5.66	0.73	4.64	6.16	0.006698	4.91	81.49	25.02	0.87
tratto 1	5.1 RE-S5.1	T=50	287.00	0.80	3.64	5.00	1.36	5.10	1.46	3.27	4.54	0.005544	4.20	68.41	24.72	0.81
tratto 1	5.1 RE-S5.1	T=200	355.00	0.80	4.05	5.00	0.95	5.10	1.05	3.63	5.09	0.005813	4.53	78.41	24.81	0.81
tratto 1	5.1 RE-S5.1	T=500	400.00	0.80	4.25	5.00	0.75	5.10	0.85	3.87	5.42	0.006233	4.80	83.40	24.85	0.84
tratto 1	5.0 RE-S5	T=50	287.00	0.80	3.67	5.30	1.63	5.12	1.45	3.23	4.52	0.003356	4.08	70.37	25.15	0.78
tratto 1	5.0 RE-S5	T=200	355.00	0.80	4.08	5.30	1.22	5.12	1.04	3.60	5.07	0.003373	4.40	80.70	25.24	0.79
tratto 1	5.0 RE-S5	T=500	400.00	0.80	4.29	5.30	1.01	5.12	0.83	3.83	5.39	0.003535	4.65	85.94	25.29	0.81
tratto 1	4.992		Lat Struct													
tratto 1	4.991		Lat Struct													
tratto 1	4.3 RE-S4	T=50	287.00	0.45	3.60	5.84	2.24	2.80	-0.80	2.72	4.14	0.001872	3.25	88.36	29.20	0.60
tratto 1	4.3 RE-S4	T=200	355.00	0.45	4.05	5.84	1.79	2.80	-1.25	3.04	4.67	0.001874	3.50	101.38	29.20	0.60
tratto 1	4.3 RE-S4	T=500	400.00	0.45	4.26	5.84	1.58	2.80	-1.47	3.25	4.97	0.001971	3.71	107.80	29.20	0.62
tratto 1	4.2 RE-S4	T=50	287.00	0.43	3.60	5.84	2.24	2.50	-1.10	2.66	4.13	0.001804	3.22	89.01	28.78	0.59
tratto 1	4.2 RE-S4	T=200	355.00	0.43	4.04	5.84	1.80	2.50	-1.54	3.00	4.66	0.001827	3.49	101.80	28.86	0.59
tratto 1	4.2 RE-S4	T=500	400.00	0.43	4.30	5.84	1.54	2.50	-1.80	3.20	4.94	0.001778	3.58	115.27	32.21	0.59
tratto 1	4.11 RE-S4		Bridge													
tratto 1	4.1 RE-S4	T=50	287.00	0.43	2.66	5.84	3.18	2.50	-0.16	2.66	3.75	0.005535	4.62	62.15	28.61	1.00
tratto 1	4.1 RE-S4	T=200	355.00	0.43	2.99	5.84	2.85	2.50	-0.49	2.99	4.24	0.005412	4.95	71.68	28.67	1.00
tratto 1	4.1 RE-S4	T=500	400.00	0.43	3.20	5.84	2.64	2.50	-0.70	3.20	4.55	0.005343	5.15	77.69	28.71	1.00
tratto 1	4.0992		Lat Struct													
tratto 1	4.0991		Lat Struct													
tratto 1	4.0 RE-S4	T=50	287.00	0.15	2.49	5.84	3.35	2.30	-0.19	2.49	3.58	0.005532	4.64	61.90	28.20	1.00
tratto 1	4.0 RE-S4	T=200	355.00	0.15	2.82	5.84	3.02	2.30	-0.52	2.82	4.08	0.005430	4.98	71.30	28.23	1.00
tratto 1	4.0 RE-S4	T=500	400.00	0.15	3.03	5.84	2.81	2.30	-0.73	3.03	4.40	0.005376	5.18	77.22	28.25	1.00
tratto 1	3.3 RE-S3	T=50	287.00	-0.40	2.62	4.10	1.47	4.00	1.38	1.77	3.15	0.001905	3.21	89.36	30.33	0.60
tratto 1	3.3 RE-S3	T=200	355.00	-0.40	2.95	4.10	1.15	4.00	1.05	2.09	3.60	0.002113	3.58	99.11	30.37	0.63
tratto 1	3.3 RE-S3	T=500	400.00	-0.40	3.15	4.10	0.95	4.00	0.85	2.29	3.88	0.002232	3.80	105.19	30.39	0.65
tratto 1	3.2 RE-S3	T=50	287.00	-0.40	2.62	4.10	1.48	4.05	1.43	1.77	3.15	0.001922	3.22	89.11	30.33	0.60
tratto 1	3.2 RE-S3	T=200	355.00	-0.40	2.94	4.10	1.16	4.05	1.11	2.08	3.59	0.002132	3.59	98.82	30.37	0.64
tratto 1	3.2 RE-S3	T=500	400.00	-0.40	3.14	4.10	0.96	4.05	0.91	2.28	3.88	0.002255	3.82	104.85	30.39	0.66

HEC-RAS Plan: 03_PdB_2020 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl	
tratto 1	3.11	RE-S3	Bridge														
tratto 1	3.1	RE-S3	T=50	287.00	-0.40	2.60	4.10	1.50	4.05	1.45	1.77	3.14	0.001952	3.24	88.66	30.33	0.60
tratto 1	3.1	RE-S3	T=200	355.00	-0.40	2.92	4.10	1.18	4.05	1.13	2.08	3.59	0.002165	3.61	98.34	30.37	0.64
tratto 1	3.1	RE-S3	T=500	400.00	-0.40	3.12	4.10	0.98	4.05	0.93	2.28	3.87	0.002296	3.84	104.23	30.39	0.66
tratto 1	3.0	RE-S3	T=50	287.00	-0.40	2.59	3.05	0.46	3.00	0.41	1.76	3.13	0.001957	3.24	88.58	30.43	0.61
tratto 1	3.0	RE-S3	T=200	355.00	-0.40	2.91	3.05	0.14	3.00	0.09	2.09	3.58	0.002169	3.61	98.27	30.48	0.64
tratto 1	3.0	RE-S3	T=500	400.00	-0.40	3.11	3.05	-0.06	3.00	-0.11	2.28	3.86	0.002299	3.84	104.19	30.50	0.66
tratto 1	2.992		Lat Struct														
tratto 1	2.991		Lat Struct														
tratto 1	2	RE-S2	T=50	287.00	-0.26	2.07	3.35	1.28	3.20	1.13	2.07	3.04	0.005512	4.37	65.68	33.75	1.00
tratto 1	2	RE-S2	T=200	355.00	-0.26	2.37	3.35	0.98	3.20	0.83	2.37	3.49	0.005361	4.69	75.73	33.80	1.00
tratto 1	2	RE-S2	T=500	400.00	-0.26	2.55	3.35	0.80	3.20	0.65	2.55	3.77	0.005285	4.88	82.02	33.82	1.00
tratto 1	1	RE-S1	T=50	287.00	-0.10	2.00	3.34	1.34	3.15	1.15	2.00	2.84	0.005507	4.05	70.86	42.44	1.00
tratto 1	1	RE-S1	T=200	355.00	-0.10	2.26	3.34	1.08	3.15	0.89	2.26	3.22	0.005311	4.34	81.76	42.49	1.00
tratto 1	1	RE-S1	T=500	400.00	-0.10	2.42	3.34	0.92	3.15	0.73	2.42	3.46	0.005229	4.52	88.49	42.51	1.00