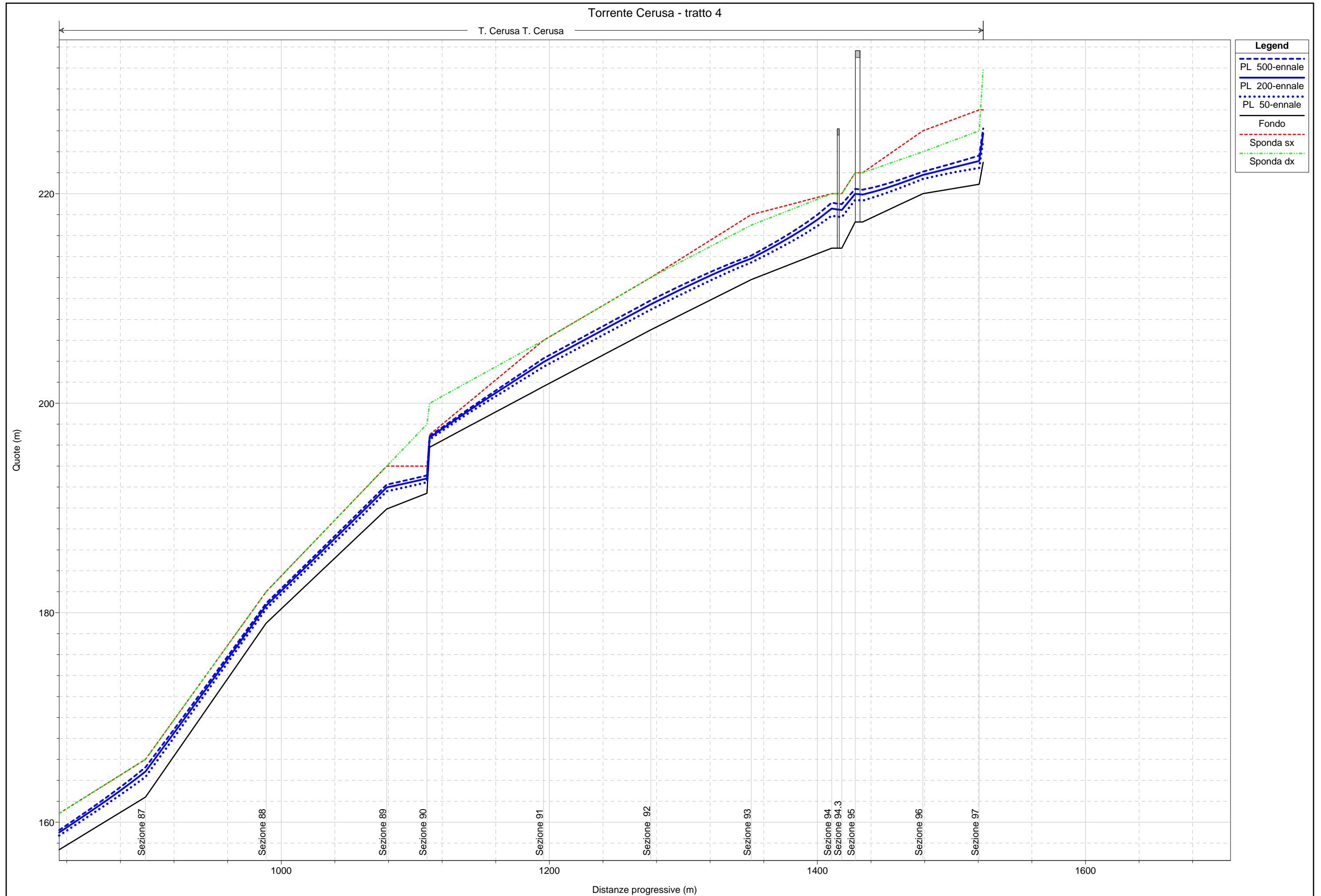


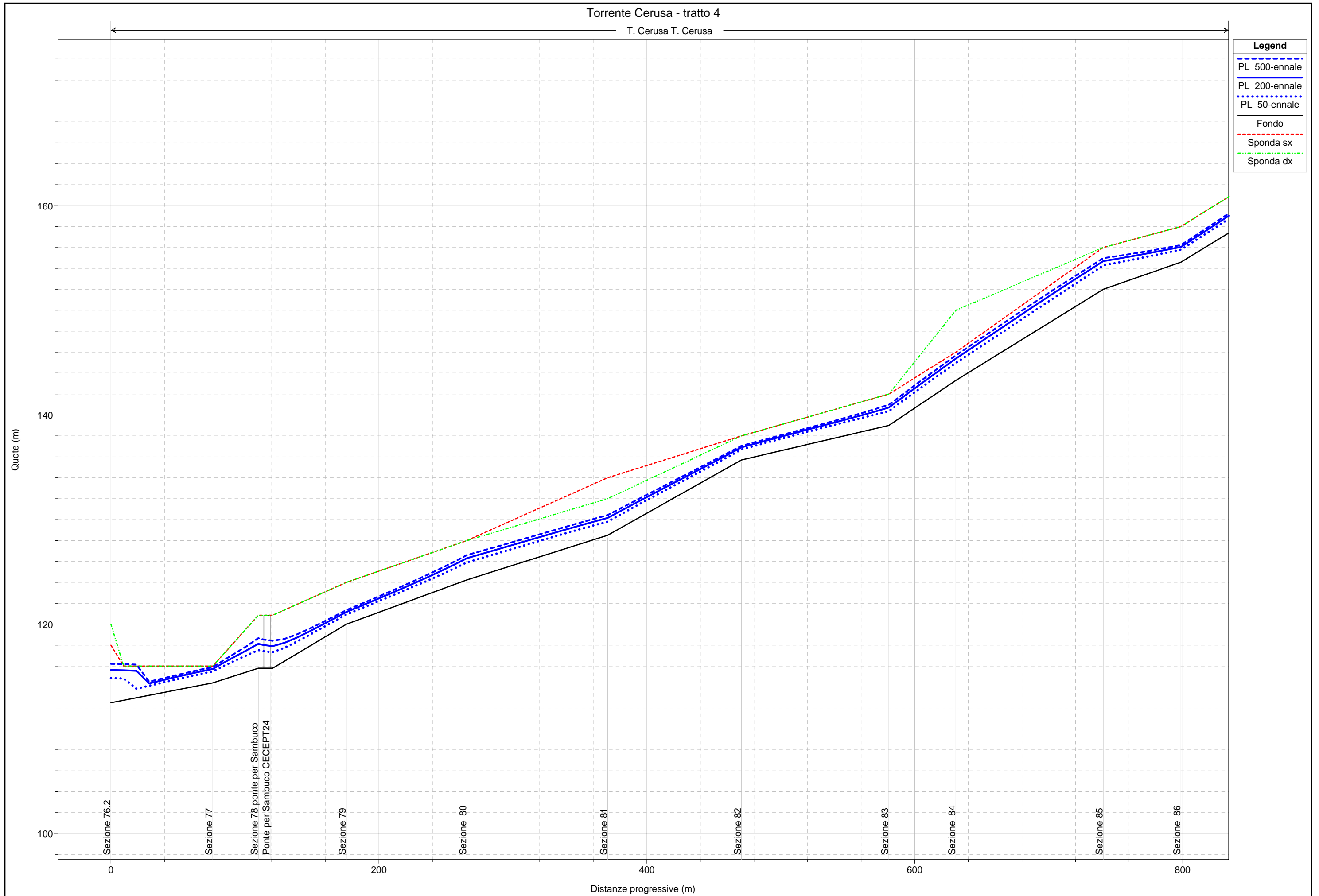
Torrente Cerusa

Tratto 4: dalla sezione 97 alla 76.2

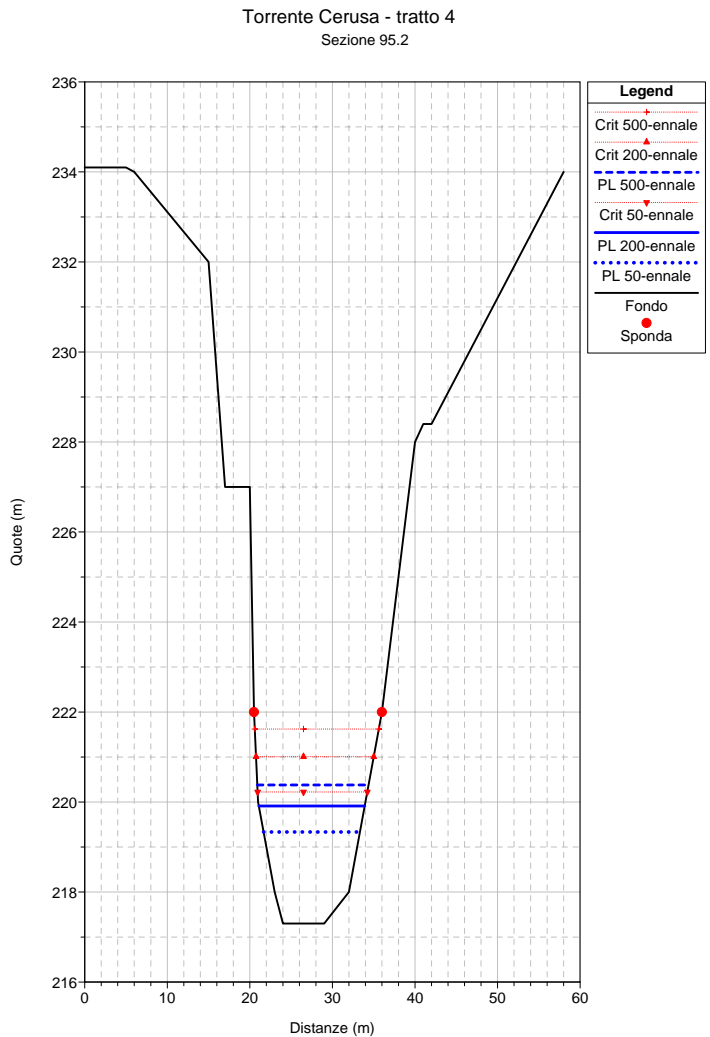
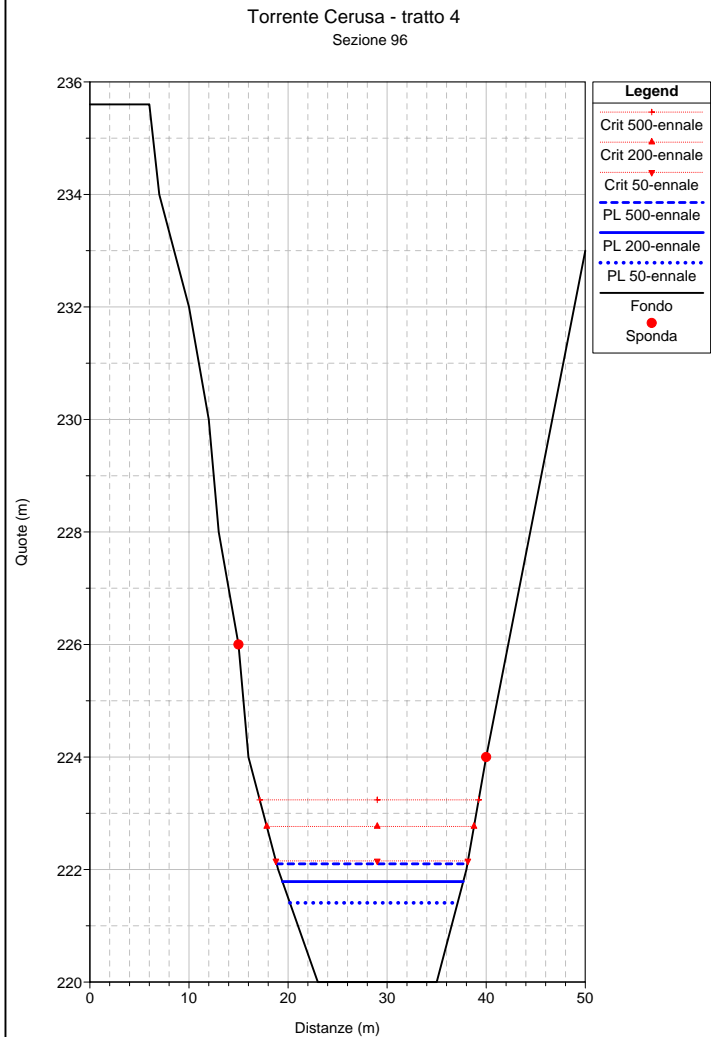
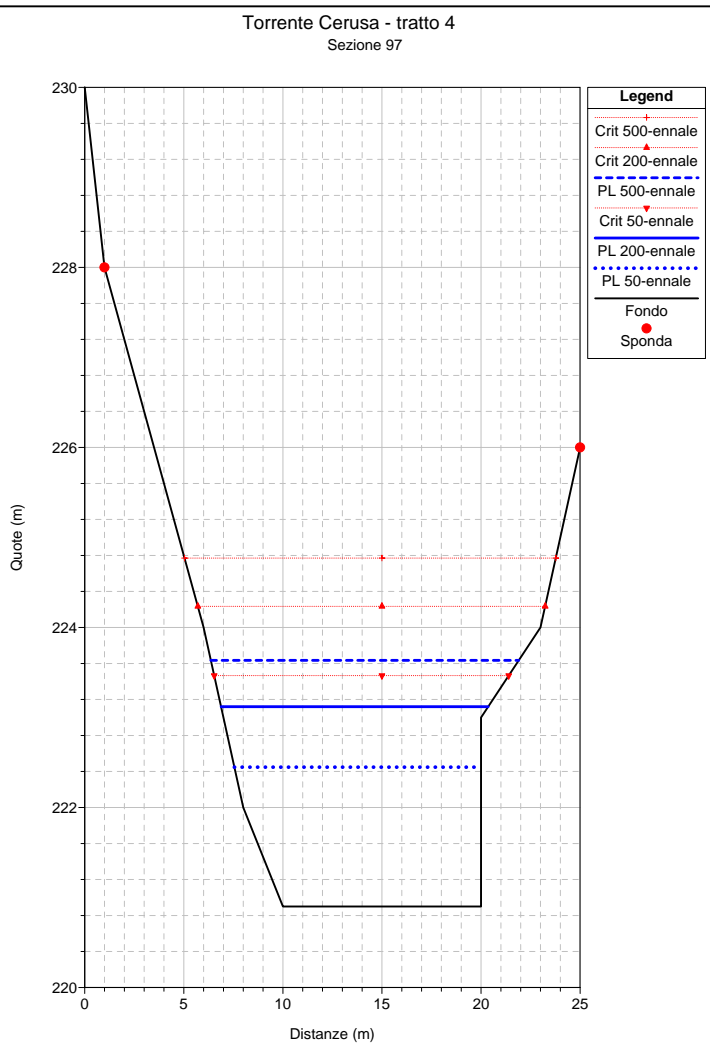
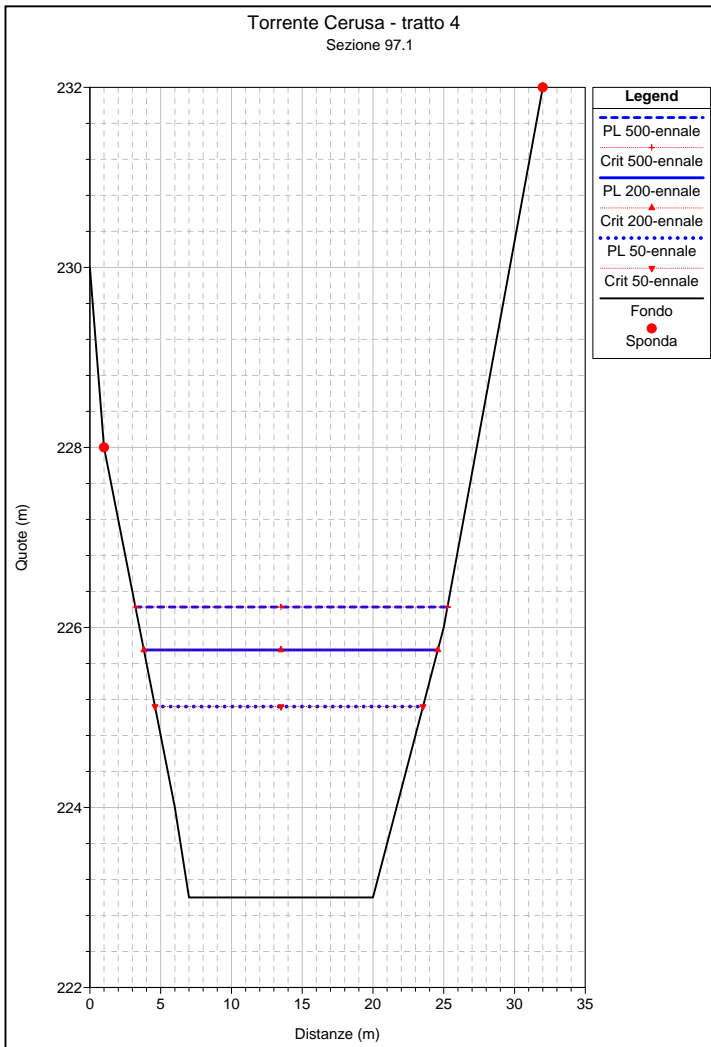
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

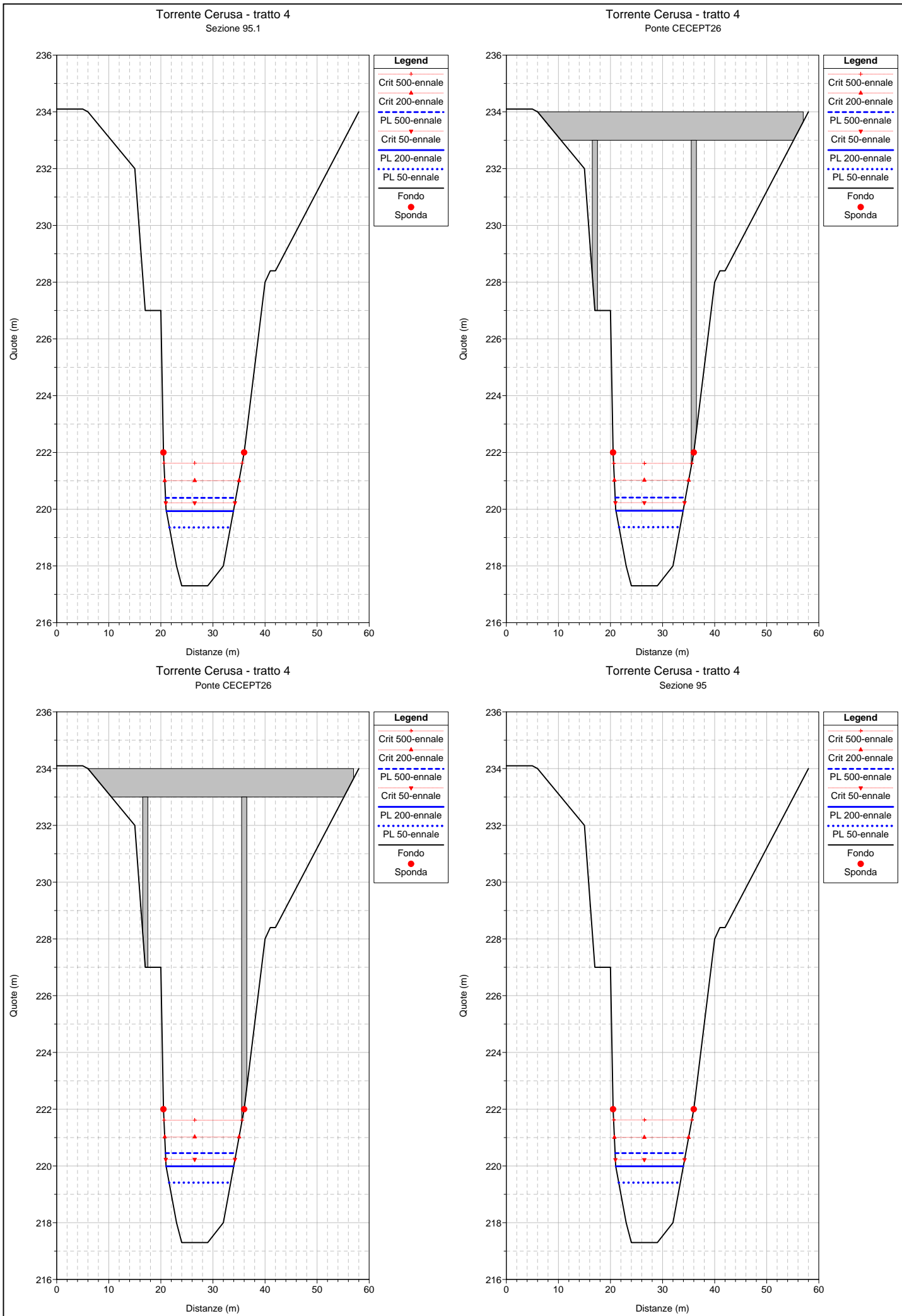


1 cm Horiz. = 25 m 1 cm Vert. = 3.2 m

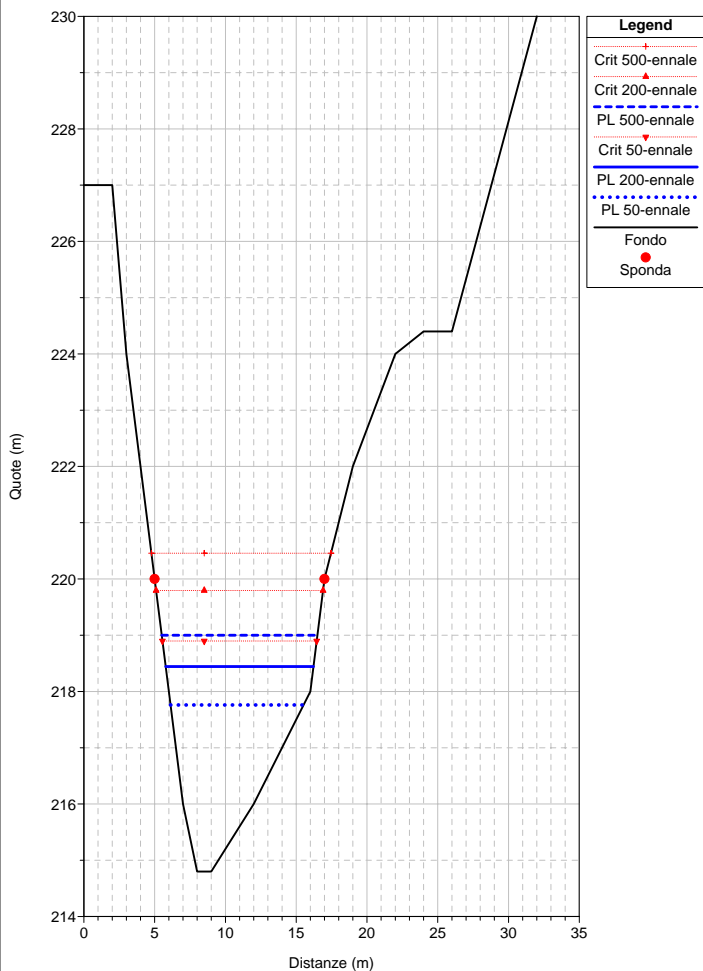


1 cm Horiz. = 25 m 1 cm Vert. = 3.2 m

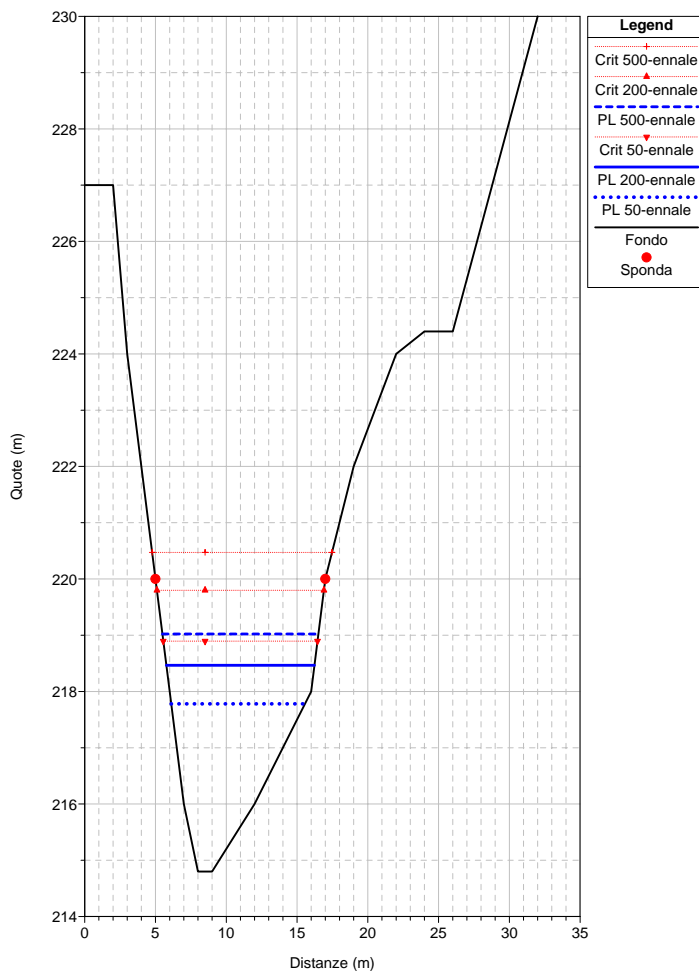




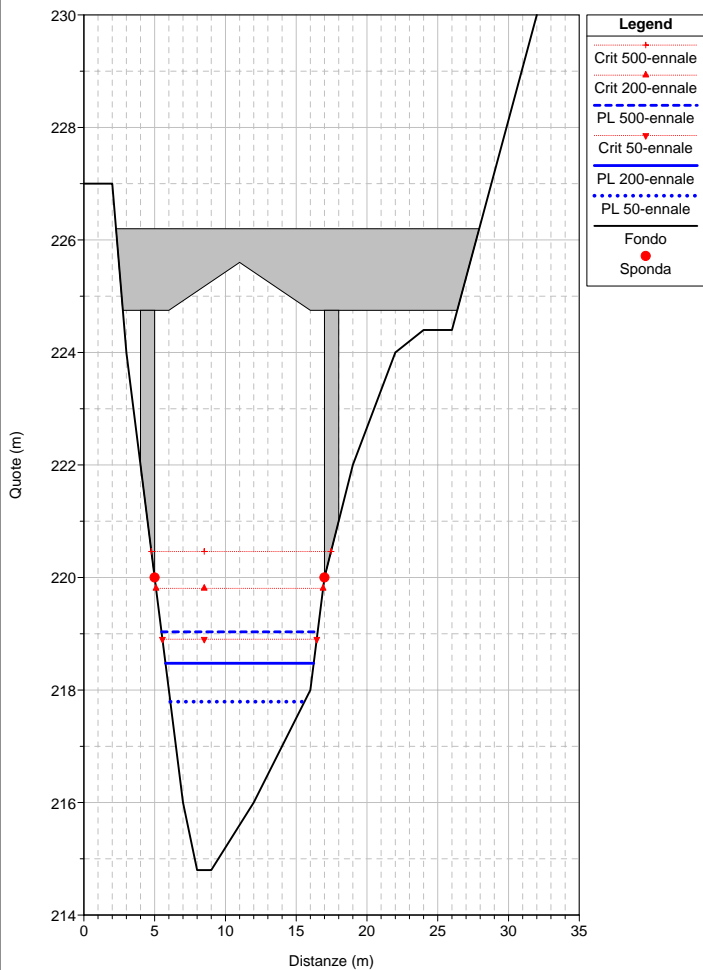
Torrente Cerusa - tratto 4
Sezione 94.3



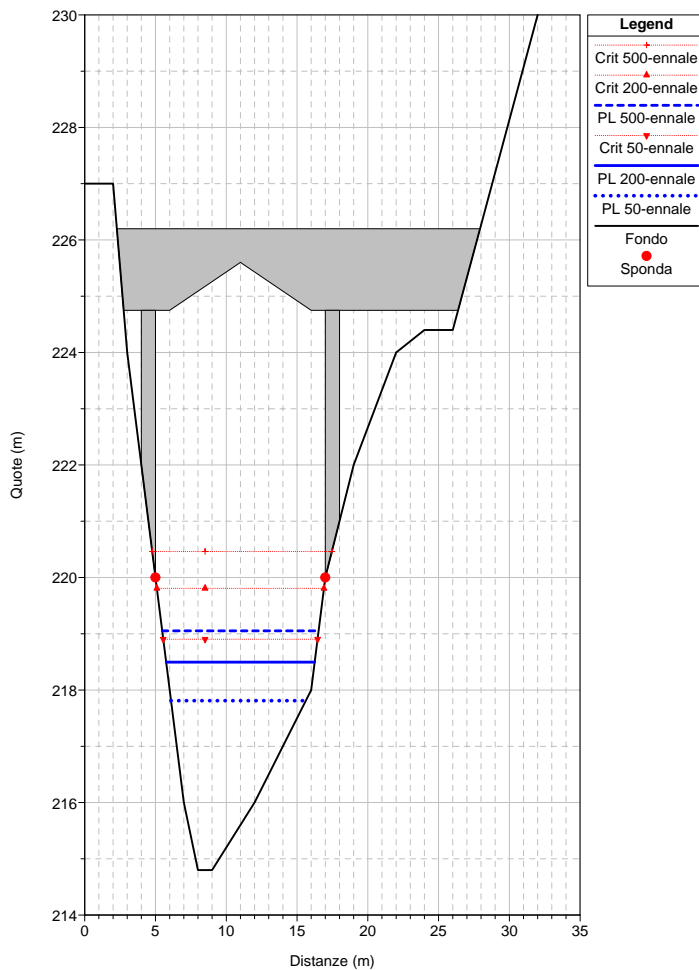
Torrente Cerusa - tratto 4
Sezione 94.2

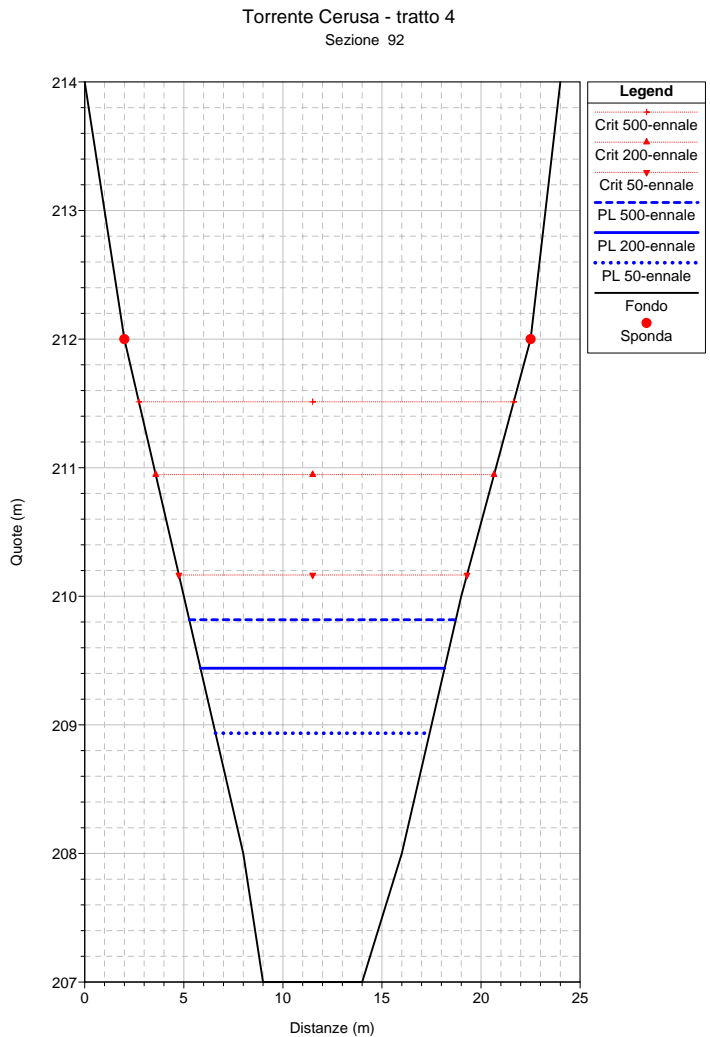
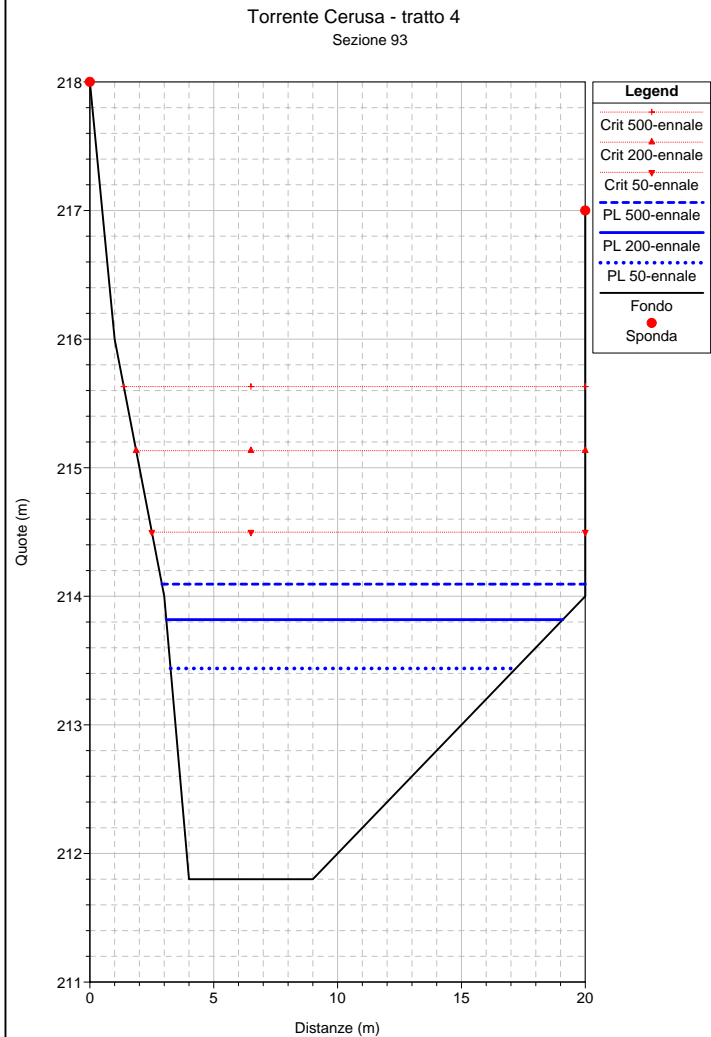
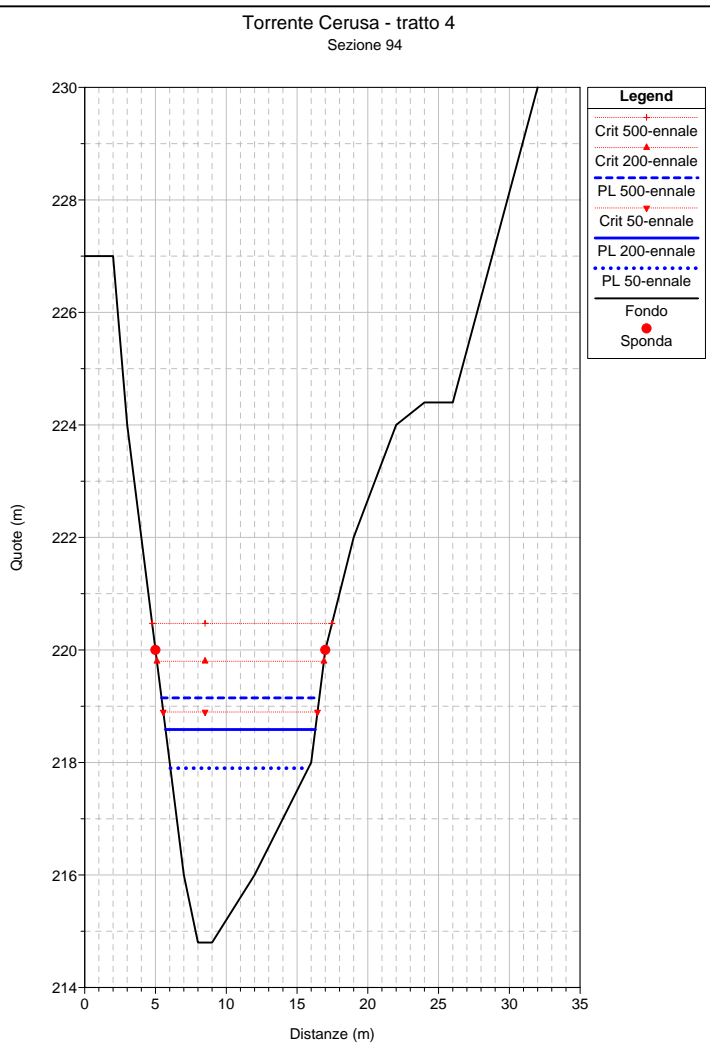
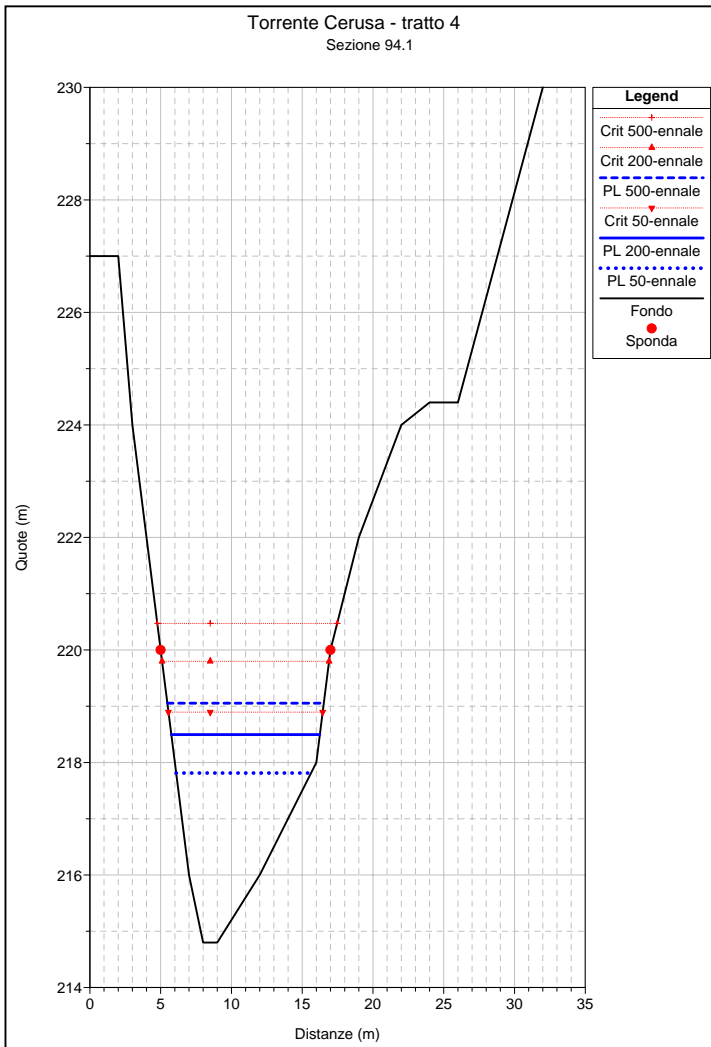


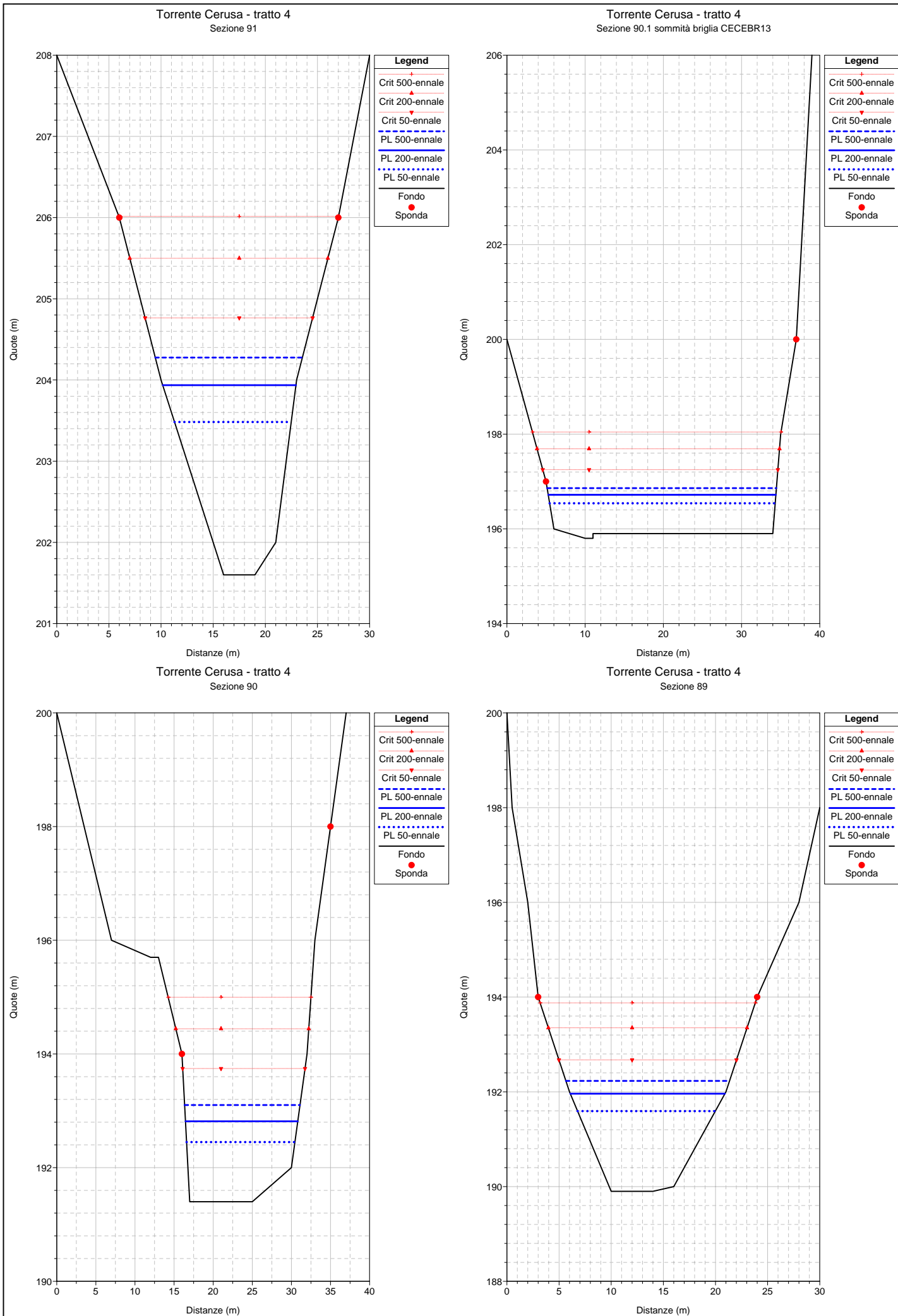
Torrente Cerusa - tratto 4
Ponte CECEPT5



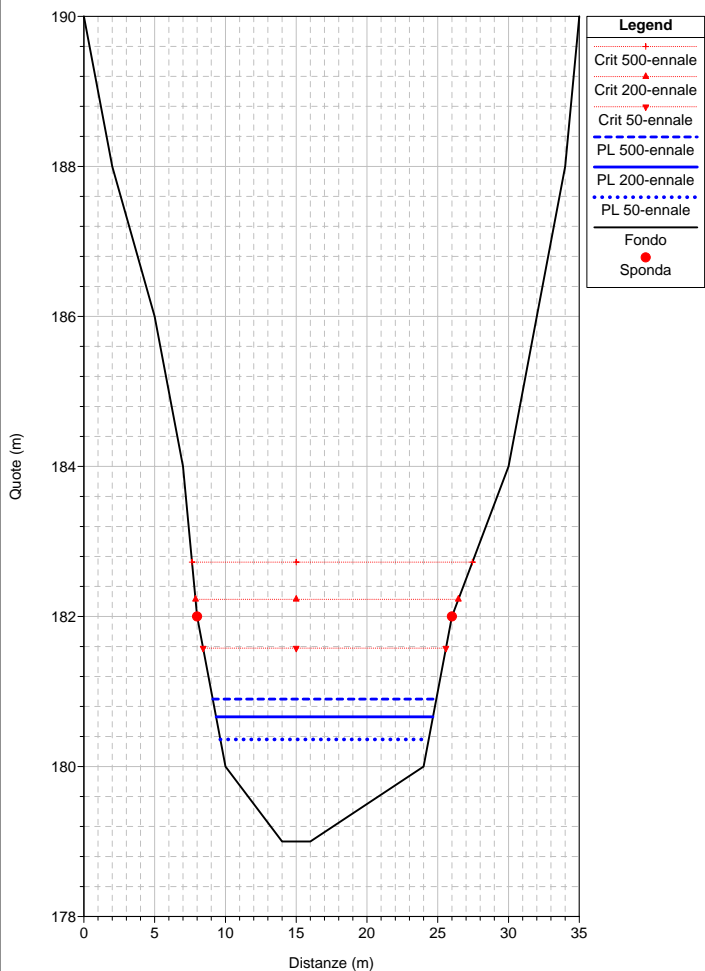
Torrente Cerusa - tratto 4
Ponte CECEPT5



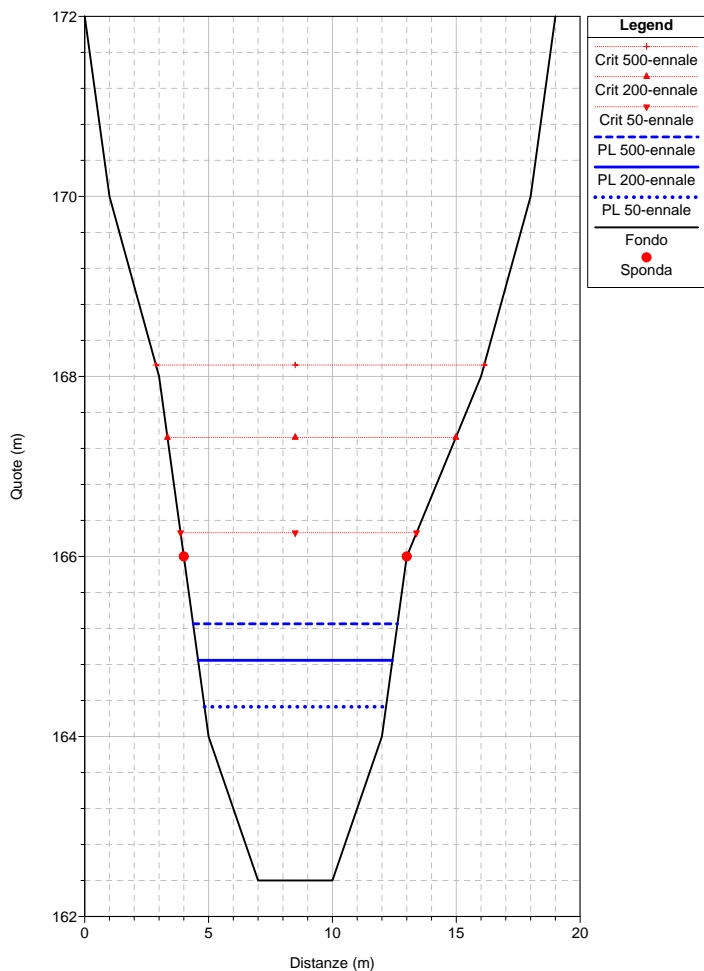




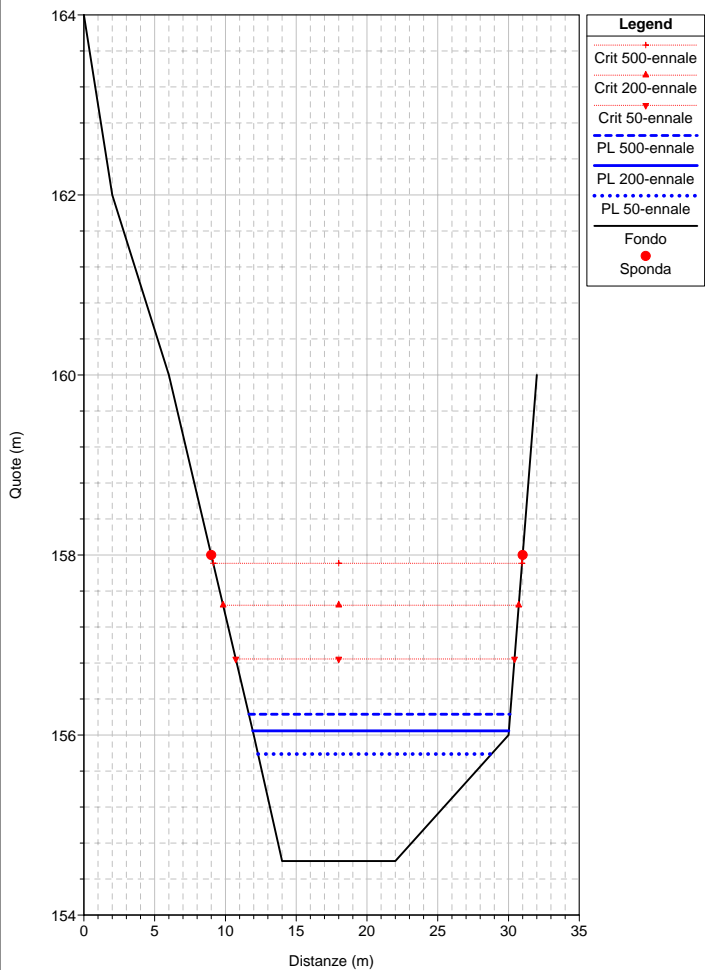
Torrente Cerusa - tratto 4
Sezione 88



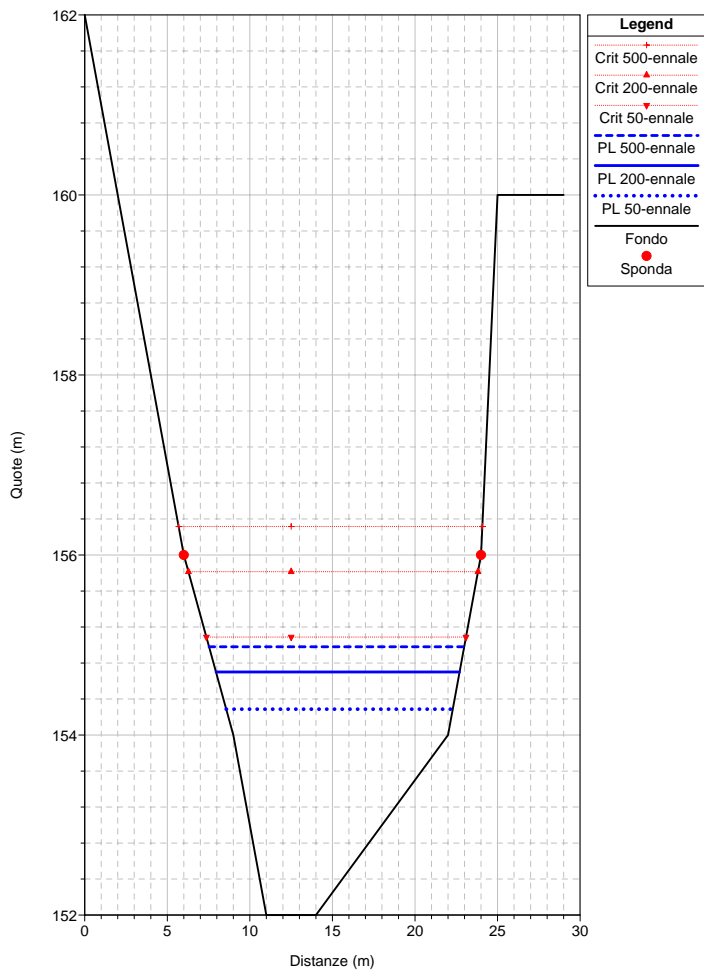
Torrente Cerusa - tratto 4
Sezione 87

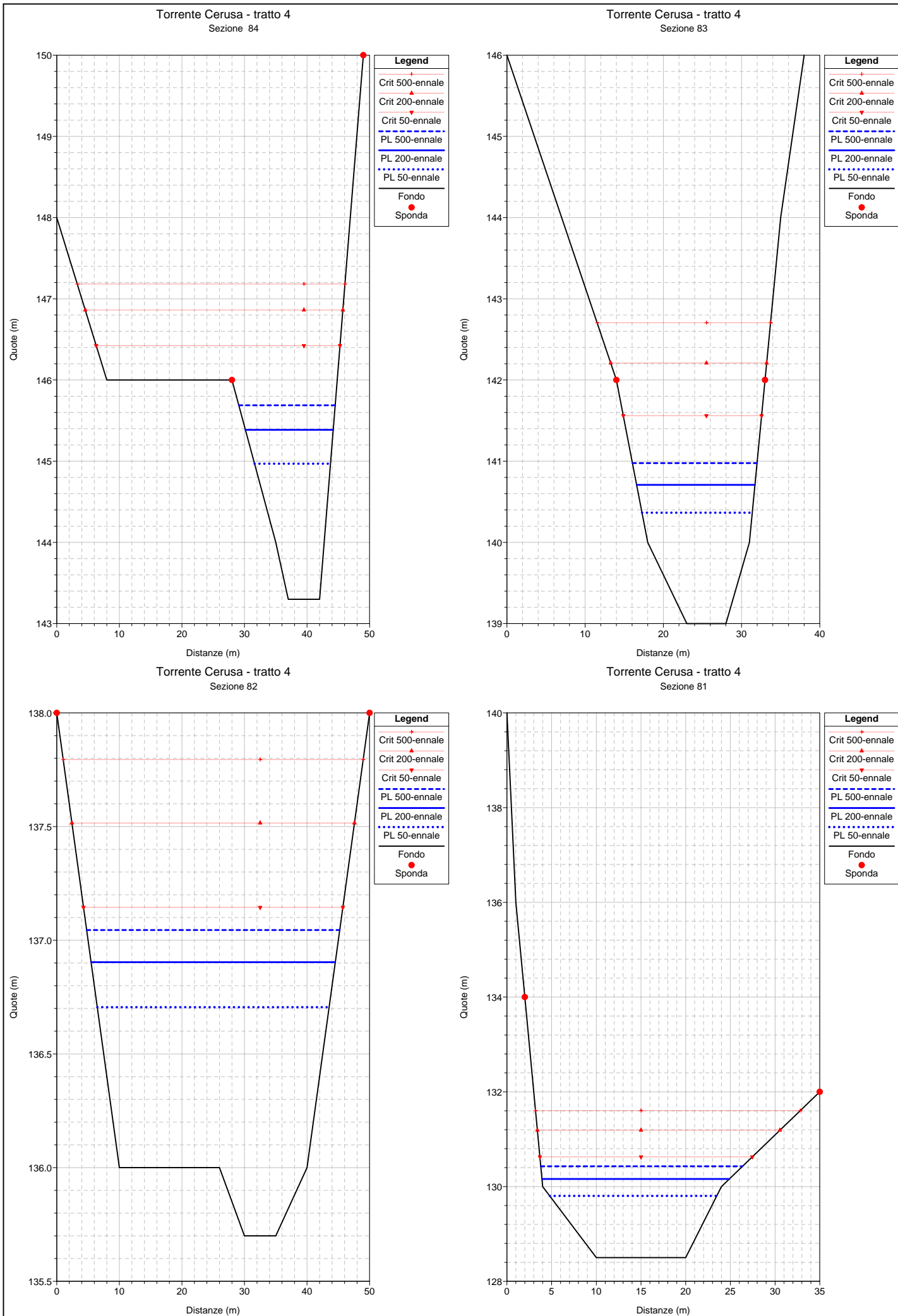


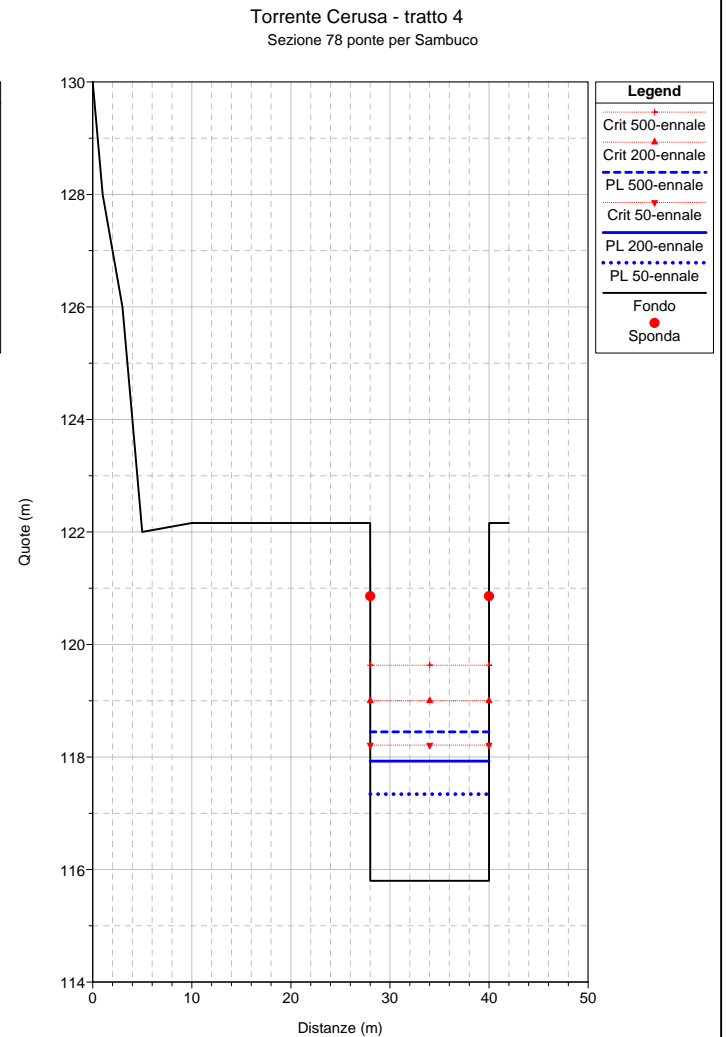
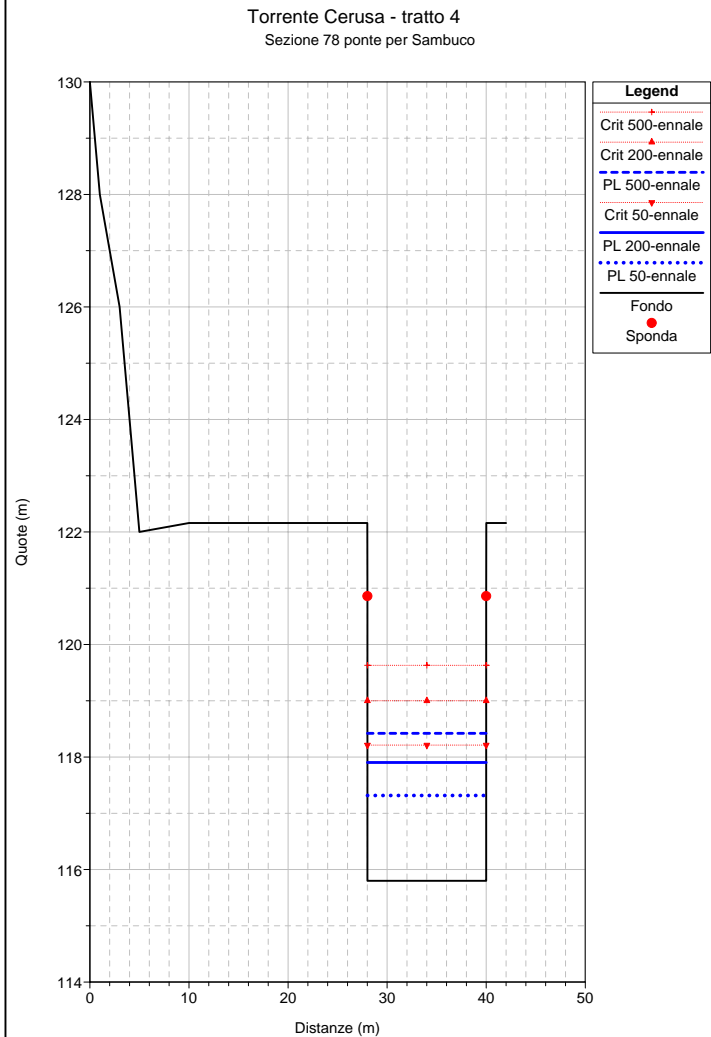
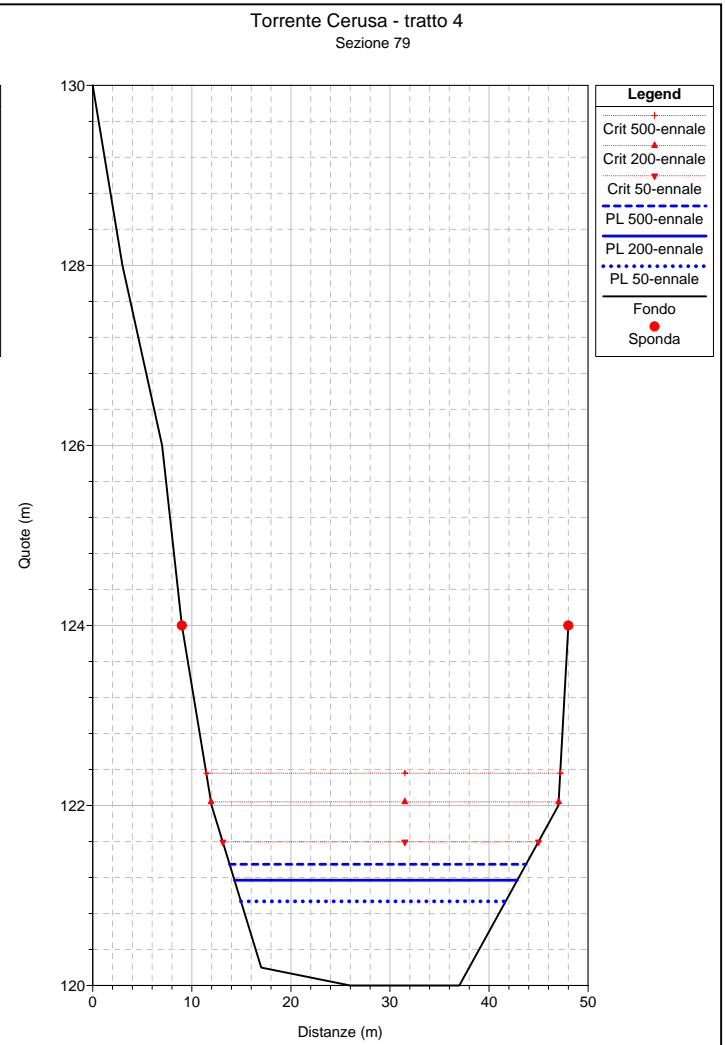
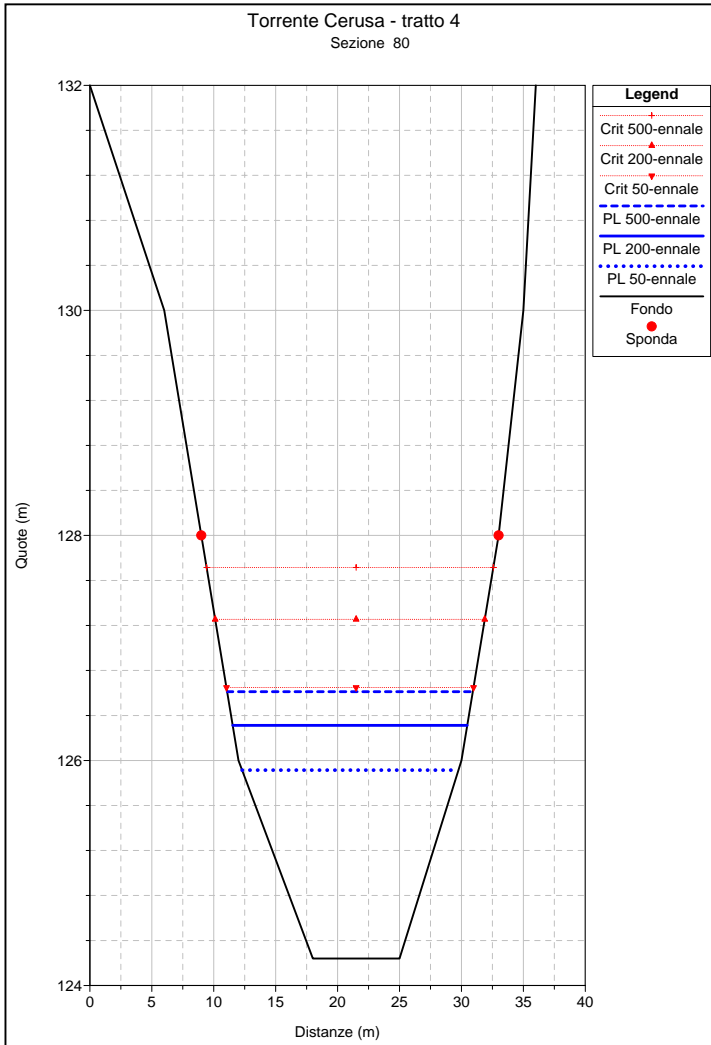
Torrente Cerusa - tratto 4
Sezione 86



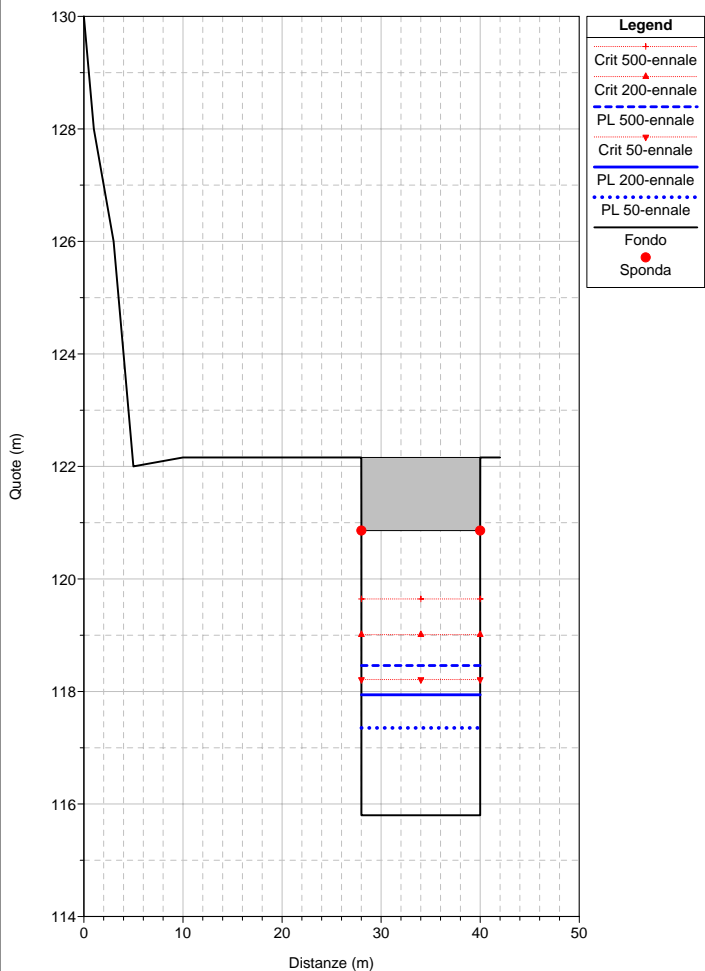
Torrente Cerusa - tratto 4
Sezione 85



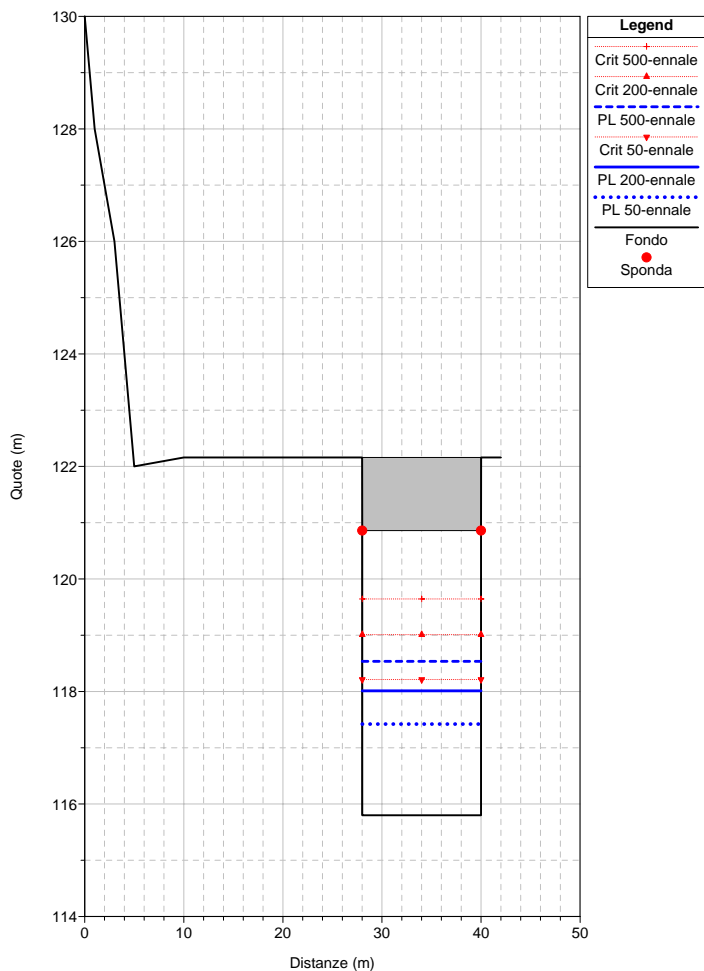




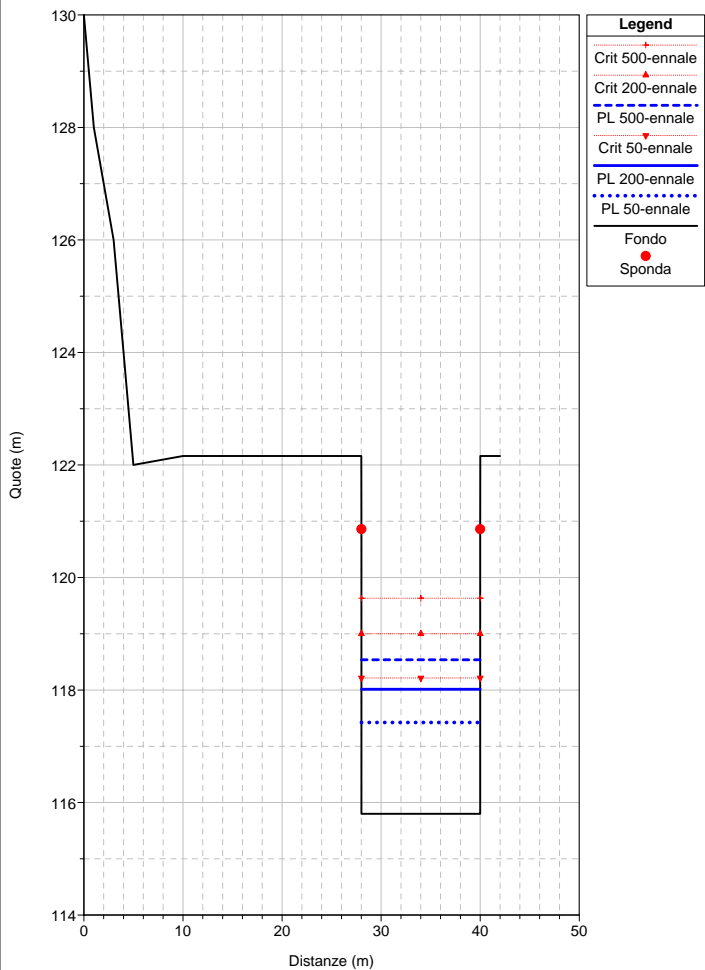
Torrente Cerusa - tratto 4
Ponte per Sambuco CECEPT24



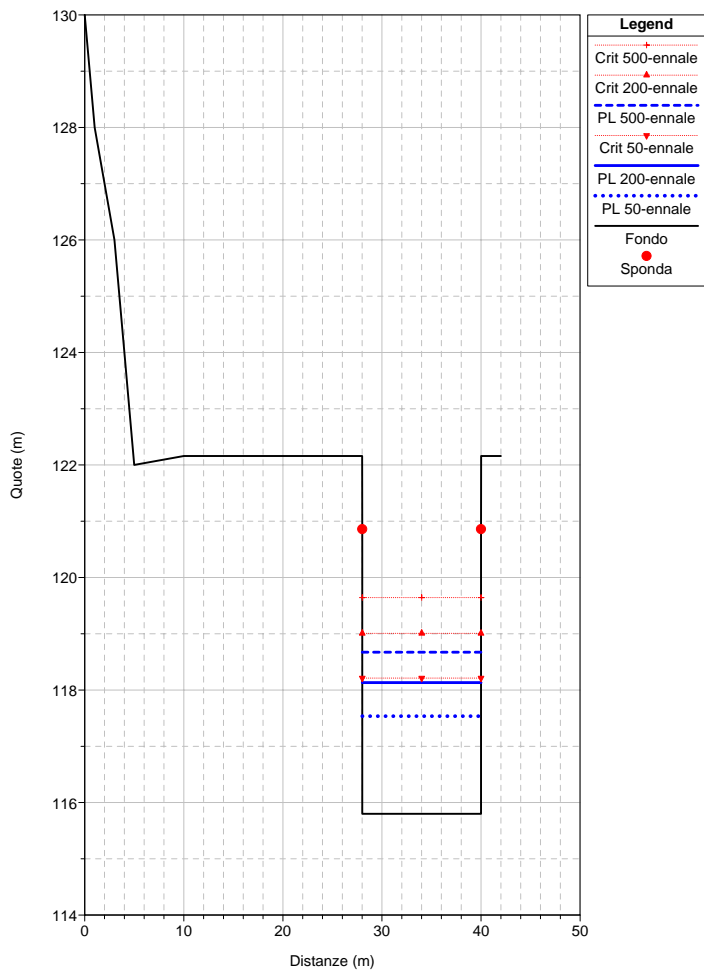
Torrente Cerusa - tratto 4
Ponte per Sambuco CECEPT24



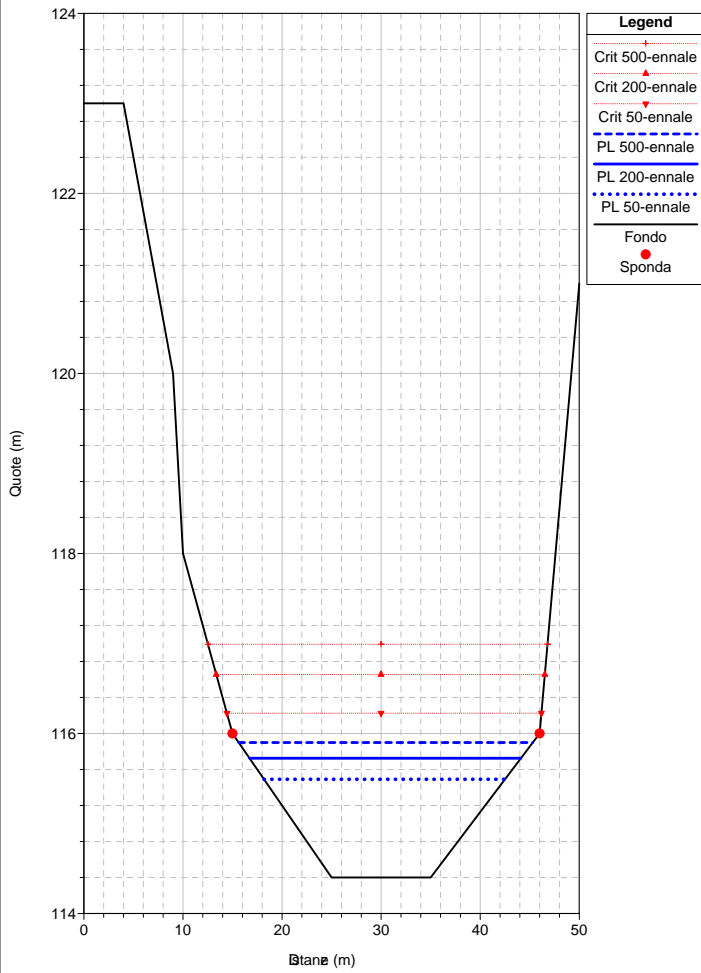
Torrente Cerusa - tratto 4
Sezione 78 ponte per Sambuco



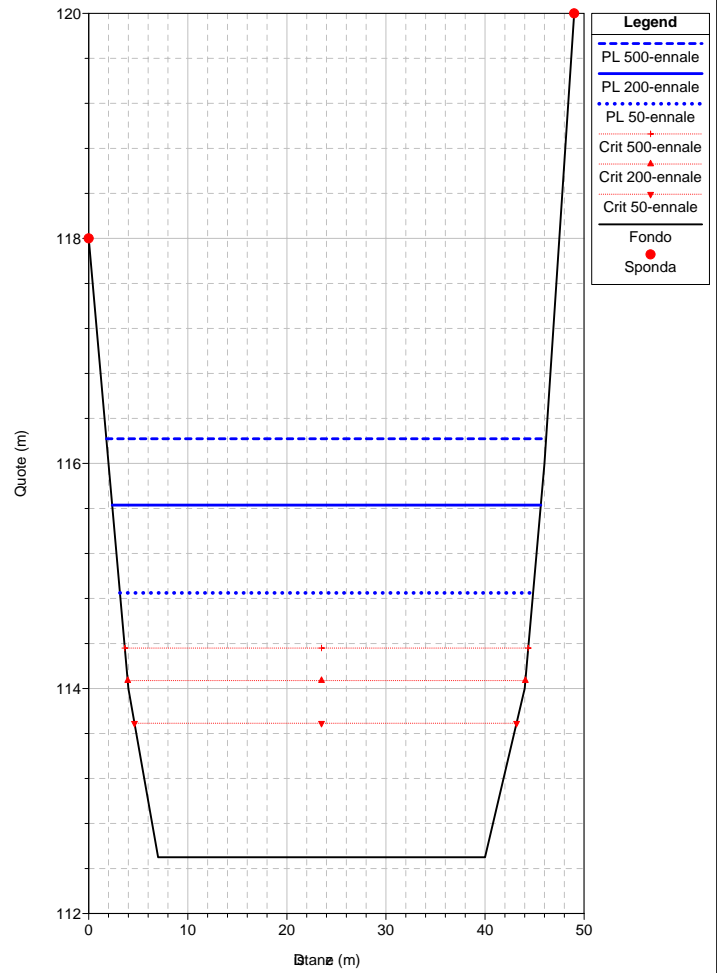
Torrente Cerusa - tratto 4
Sezione 78 ponte per Sambuco



Torrente Cerusa - tratto 4
Sezione 77



Torrente Cerusa - tratto 4
Sezione 76.2



HEC-RAS Plan: cer-4 River: T. Cerusa Reach: T. Cerusa

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
T. Cerusa	97.1	500-ennale	283.00	223.00	226.23	228.00	1.77	232.00	5.77	226.23	227.51	0.007295	5.01	56.45	22.05	1.00
T. Cerusa	97.1	200-ennale	216.00	223.00	225.75	228.00	2.25	232.00	6.25	225.75	226.86	0.007556	4.67	46.22	20.77	1.00
T. Cerusa	97.1	50-ennale	141.00	223.00	225.12	228.00	2.88	232.00	6.88	225.12	226.01	0.008012	4.18	33.72	18.94	1.00
T. Cerusa	97	500-ennale	283.00	220.90	223.63	228.00	4.37	226.00	2.37	224.77	227.24	0.029058	8.41	33.66	15.54	1.82
T. Cerusa	97	200-ennale	216.00	220.90	223.12	228.00	4.88	226.00	2.88	224.24	226.59	0.032668	8.25	26.19	13.48	1.89
T. Cerusa	97	50-ennale	141.00	220.90	222.45	228.00	5.55	226.00	3.55	223.47	225.73	0.044635	8.02	17.58	12.45	2.15
T. Cerusa	96	500-ennale	283.00	220.00	222.10	226.00	3.90	224.00	1.90	223.24	225.86	0.035042	8.59	32.95	19.26	2.10
T. Cerusa	96	200-ennale	216.00	220.00	221.79	226.00	4.21	224.00	2.21	222.77	225.04	0.036564	8.00	27.01	18.25	2.10
T. Cerusa	96	50-ennale	141.00	220.00	221.41	226.00	4.59	224.00	2.59	222.15	223.85	0.035783	6.93	20.36	16.93	2.02
T. Cerusa	95.2	500-ennale	283.00	217.30	220.38	222.00	1.62	222.00	1.62	221.62	224.38	0.027889	8.86	31.92	13.47	1.84
T. Cerusa	95.2	200-ennale	216.00	217.30	219.91	222.00	2.09	222.00	2.09	221.01	223.49	0.029926	8.38	25.77	12.83	1.89
T. Cerusa	95.2	50-ennale	141.00	217.30	219.34	222.00	2.66	222.00	2.66	220.22	222.23	0.031775	7.54	18.70	11.67	1.90
T. Cerusa	95.1	500-ennale	283.00	217.30	220.40	222.00	1.60	222.00	1.60	221.62	224.33	0.027210	8.79	32.20	13.50	1.82
T. Cerusa	95.1	200-ennale	216.00	217.30	219.93	222.00	2.07	222.00	2.07	221.01	223.44	0.029094	8.30	26.03	12.87	1.86
T. Cerusa	95.1	50-ennale	141.00	217.30	219.36	222.00	2.64	222.00	2.64	220.22	222.18	0.030612	7.44	18.94	11.71	1.87
T. Cerusa	95.01		Bridge													
T. Cerusa	95	500-ennale	283.00	217.30	220.45	222.00	1.55	222.00	1.55	221.62	224.22	0.025588	8.60	32.91	13.57	1.76
T. Cerusa	95	200-ennale	216.00	217.30	219.99	222.00	2.01	222.00	2.01	221.01	223.31	0.027013	8.08	26.73	12.97	1.80
T. Cerusa	95	50-ennale	141.00	217.30	219.41	222.00	2.59	222.00	2.59	220.22	222.05	0.027705	7.19	19.61	11.83	1.78
T. Cerusa	94.3	500-ennale	283.00	214.80	219.00	220.00	1.00	220.00	1.00	220.46	223.82	0.034387	9.73	29.09	11.00	1.91
T. Cerusa	94.3	200-ennale	216.00	214.80	218.44	220.00	1.56	220.00	1.56	219.79	222.88	0.038225	9.34	23.14	10.44	2.00
T. Cerusa	94.3	50-ennale	141.00	214.80	217.76	220.00	2.24	220.00	2.24	218.90	221.58	0.043489	8.66	16.28	9.40	2.10
T. Cerusa	94.2	500-ennale	283.00	214.80	219.02	220.00	0.98	220.00	0.98	220.47	223.76	0.033589	9.65	29.34	11.02	1.89
T. Cerusa	94.2	200-ennale	216.00	214.80	218.47	220.00	1.54	220.00	1.54	219.80	222.82	0.037199	9.25	23.36	10.46	1.98
T. Cerusa	94.2	50-ennale	141.00	214.80	217.78	220.00	2.22	220.00	2.22	218.90	221.51	0.042114	8.56	16.47	9.45	2.07
T. Cerusa	94.11		Bridge													
T. Cerusa	94.1	500-ennale	283.00	214.80	219.05	220.00	0.95	220.00	0.95	220.47	223.68	0.032452	9.53	29.70	11.05	1.86
T. Cerusa	94.1	200-ennale	216.00	214.80	218.50	220.00	1.50	220.00	1.50	219.80	222.73	0.035743	9.12	23.69	10.50	1.94
T. Cerusa	94.1	50-ennale	141.00	214.80	217.81	220.00	2.19	220.00	2.19	218.89	221.42	0.040196	8.41	16.76	9.53	2.02
T. Cerusa	94	500-ennale	283.00	214.80	219.15	220.00	0.85	220.00	0.85	220.47	223.46	0.029467	9.20	30.75	11.15	1.77
T. Cerusa	94	200-ennale	216.00	214.80	218.59	220.00	1.41	220.00	1.41	219.80	222.50	0.031991	8.77	24.63	10.59	1.83
T. Cerusa	94	50-ennale	141.00	214.80	217.90	220.00	2.10	220.00	2.10	218.90	221.17	0.035263	8.01	17.60	9.75	1.90
T. Cerusa	93	500-ennale	283.00	211.80	214.09	218.00	3.91	217.00	2.91	215.63	220.22	0.071250	10.97	25.81	17.09	2.85
T. Cerusa	93	200-ennale	216.00	211.80	213.82	218.00	4.18	217.00	3.18	215.13	219.11	0.072368	10.19	21.20	16.01	2.83
T. Cerusa	93	50-ennale	141.00	211.80	213.44	218.00	4.56	217.00	3.56	214.50	217.65	0.072063	9.09	15.51	13.94	2.75
T. Cerusa	92	500-ennale	283.00	207.00	209.82	212.00	2.18	212.00	2.18	211.51	215.86	0.052184	10.89	25.99	13.45	2.50

HEC-RAS Plan: cer-4 River: T. Cerusa Reach: T. Cerusa (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
T. Cerusa	92	200-ennale	216.00	207.00	209.44	212.00	2.56	212.00	2.56	210.95	214.76	0.053460	10.22	21.14	12.32	2.49
T. Cerusa	92	50-ennale	141.00	207.00	208.93	212.00	3.07	212.00	3.07	210.17	213.27	0.055553	9.22	15.29	10.80	2.47
T. Cerusa	91	500-ennale	283.00	201.60	204.28	206.00	1.72	206.00	1.72	206.01	211.05	0.065154	11.53	24.55	14.11	2.79
T. Cerusa	91	200-ennale	216.00	201.60	203.94	206.00	2.06	206.00	2.06	205.50	209.89	0.065883	10.81	19.98	12.78	2.76
T. Cerusa	91	50-ennale	141.00	201.60	203.48	206.00	2.52	206.00	2.52	204.77	208.27	0.066994	9.70	14.54	11.19	2.71
T. Cerusa	90.1	500-ennale	283.00	195.80	196.86	197.00	0.14	200.00	3.14	198.05	202.24	0.108344	10.28	27.54	29.32	3.38
T. Cerusa	90.1	200-ennale	216.00	195.80	196.72	197.00	0.28	200.00	3.28	197.69	201.04	0.106047	9.21	23.46	29.11	3.27
T. Cerusa	90.1	50-ennale	141.00	195.80	196.54	197.00	0.46	200.00	3.46	197.25	199.58	0.101986	7.72	18.27	28.84	3.10
T. Cerusa	90	500-ennale	283.00	191.40	193.10	194.00	0.90	198.00	4.90	195.00	201.70	0.104238	12.99	21.78	14.76	3.41
T. Cerusa	90	200-ennale	216.00	191.40	192.81	194.00	1.19	198.00	5.19	194.44	200.48	0.116274	12.27	17.61	14.36	3.54
T. Cerusa	90	50-ennale	141.00	191.40	192.45	194.00	1.55	198.00	5.55	193.74	198.98	0.145335	11.33	12.45	13.85	3.81
T. Cerusa	89	500-ennale	283.00	189.90	192.23	194.00	1.77	194.00	1.77	193.88	198.64	0.065460	11.21	25.24	15.69	2.82
T. Cerusa	89	200-ennale	216.00	189.90	191.96	194.00	2.04	194.00	2.04	193.35	197.29	0.063504	10.23	21.12	14.83	2.74
T. Cerusa	89	50-ennale	141.00	189.90	191.59	194.00	2.41	194.00	2.41	192.67	195.57	0.058528	8.83	15.97	13.21	2.56
T. Cerusa	88	500-ennale	283.00	179.00	180.90	182.00	1.10	182.00	1.10	182.72	189.82	0.113664	13.24	21.38	15.80	3.63
T. Cerusa	88	200-ennale	216.00	179.00	180.66	182.00	1.34	182.00	1.34	182.23	188.25	0.117715	12.20	17.70	15.32	3.62
T. Cerusa	88	50-ennale	141.00	179.00	180.36	182.00	1.64	182.00	1.64	181.58	186.19	0.124576	10.70	13.18	14.72	3.61
T. Cerusa	87	500-ennale	283.00	162.40	165.25	166.00	0.75	166.00	0.75	168.13	178.50	0.124343	16.12	17.55	8.25	3.53
T. Cerusa	87	200-ennale	216.00	162.40	164.85	166.00	1.15	166.00	1.15	167.32	176.50	0.128181	15.12	14.28	7.85	3.58
T. Cerusa	87	50-ennale	141.00	162.40	164.33	166.00	1.67	166.00	1.67	166.26	173.75	0.135057	13.60	10.37	7.33	3.65
T. Cerusa	86	500-ennale	283.00	154.60	156.23	158.00	1.77	158.00	1.77	157.91	164.36	0.117155	12.63	22.41	18.46	3.66
T. Cerusa	86	200-ennale	216.00	154.60	156.05	158.00	1.95	158.00	1.95	157.44	162.61	0.113303	11.35	19.03	18.09	3.53
T. Cerusa	86	50-ennale	141.00	154.60	155.79	158.00	2.21	158.00	2.21	156.85	160.56	0.103311	9.68	14.57	16.50	3.29
T. Cerusa	85	500-ennale	283.00	152.00	154.98	156.00	1.02	156.00	1.02	156.32	159.53	0.038460	9.45	29.95	15.45	2.17
T. Cerusa	85	200-ennale	216.00	152.00	154.70	156.00	1.30	156.00	1.30	155.81	158.29	0.034604	8.40	25.73	14.75	2.03
T. Cerusa	85	50-ennale	141.00	152.00	154.29	156.00	1.71	156.00	1.71	155.09	156.86	0.031302	7.11	19.84	13.72	1.89
T. Cerusa	84	500-ennale	283.00	143.30	145.69	146.00	0.31	150.00	4.31	147.18	152.78	0.077461	11.80	23.98	15.40	3.02
T. Cerusa	84	200-ennale	216.00	143.30	145.39	146.00	0.61	150.00	4.61	146.86	151.61	0.078600	11.06	19.54	14.03	2.99
T. Cerusa	84	50-ennale	141.00	143.30	144.97	146.00	1.03	150.00	5.03	146.42	150.07	0.081522	10.01	14.09	12.14	2.97
T. Cerusa	83	500-ennale	283.00	139.00	140.98	142.00	1.02	142.00	1.02	142.71	148.60	0.088180	12.24	23.13	15.93	3.24
T. Cerusa	83	200-ennale	216.00	139.00	140.71	142.00	1.29	142.00	1.29	142.21	147.32	0.091974	11.39	18.96	15.12	3.25
T. Cerusa	83	50-ennale	141.00	139.00	140.37	142.00	1.63	142.00	1.63	141.56	145.57	0.097502	10.10	13.96	14.10	3.24
T. Cerusa	82	500-ennale	283.00	135.70	137.04	138.00	0.96	138.00	0.96	137.79	139.64	0.047401	7.14	39.66	40.45	2.30
T. Cerusa	82	200-ennale	216.00	135.70	136.90	138.00	1.10	138.00	1.10	137.52	138.96	0.043799	6.35	34.04	39.04	2.17
T. Cerusa	82	50-ennale	141.00	135.70	136.71	138.00	1.29	138.00	1.29	137.14	138.15	0.040043	5.32	26.51	37.06	2.01
T. Cerusa	81	500-ennale	283.00	128.50	130.43	134.00	3.57	132.00	1.57	131.60	134.51	0.048051	8.95	31.62	22.57	2.41
T. Cerusa	81	200-ennale	216.00	128.50	130.16	134.00	3.84	132.00	1.84	131.19	133.73	0.049596	8.37	25.80	20.97	2.41

HEC-RAS Plan: cer-4 River: T. Cerusa Reach: T. Cerusa (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
T. Cerusa	81	50-ennale	141.00	128.50	129.80	134.00	4.20	132.00	2.20	130.63	132.70	0.052702	7.55	18.69	18.69	2.41
T. Cerusa	80	500-ennale	283.00	124.24	126.61	128.00	1.39	128.00	1.39	127.72	130.23	0.033703	8.43	33.57	19.83	2.07
T. Cerusa	80	200-ennale	216.00	124.24	126.31	128.00	1.69	128.00	1.69	127.25	129.39	0.034398	7.78	27.77	18.94	2.05
T. Cerusa	80	50-ennale	141.00	124.24	125.91	128.00	2.09	128.00	2.09	126.65	128.33	0.035855	6.88	20.49	17.47	2.03
T. Cerusa	79	500-ennale	283.00	120.00	121.35	124.00	2.65	124.00	2.65	122.36	125.23	0.062613	8.73	32.41	29.92	2.68
T. Cerusa	79	200-ennale	216.00	120.00	121.17	124.00	2.83	124.00	2.83	122.04	124.37	0.061083	7.93	27.24	28.55	2.59
T. Cerusa	79	50-ennale	141.00	120.00	120.94	124.00	3.06	124.00	3.06	121.60	123.29	0.058873	6.80	20.75	26.72	2.46
T. Cerusa	78.3	500-ennale	283.00	115.80	118.42	120.86	2.44	120.86	2.44	119.63	122.55	0.032771	9.01	31.42	11.99	1.78
T. Cerusa	78.3	200-ennale	216.00	115.80	117.90	120.86	2.96	120.86	2.96	119.00	121.64	0.036627	8.57	25.21	11.99	1.89
T. Cerusa	78.3	50-ennale	141.00	115.80	117.32	120.86	3.54	120.86	3.54	118.21	120.38	0.041897	7.75	18.19	11.99	2.01
T. Cerusa	78.2	500-ennale	283.00	115.80	118.45	120.86	2.41	120.86	2.41	119.63	122.50	0.031788	8.91	31.75	11.99	1.75
T. Cerusa	78.2	200-ennale	216.00	115.80	117.93	120.86	2.93	120.86	2.93	119.00	121.58	0.035367	8.47	25.51	11.99	1.85
T. Cerusa	78.2	50-ennale	141.00	115.80	117.34	120.86	3.52	120.86	3.52	118.21	120.31	0.039998	7.63	18.47	11.99	1.96
T. Cerusa	78.11	Bridge														
T. Cerusa	78.1	500-ennale	283.00	115.80	118.54	120.86	2.32	120.86	2.32	119.63	122.32	0.028814	8.62	32.84	11.99	1.66
T. Cerusa	78.1	200-ennale	216.00	115.80	118.01	120.86	2.85	120.86	2.85	119.00	121.39	0.031433	8.14	26.54	11.99	1.75
T. Cerusa	78.1	50-ennale	141.00	115.80	117.42	120.86	3.44	120.86	3.44	118.21	120.10	0.034113	7.25	19.46	11.99	1.82
T. Cerusa	78	500-ennale	283.00	115.80	118.67	120.86	2.19	120.86	2.19	119.64	122.11	0.025081	8.22	34.44	11.99	1.55
T. Cerusa	78	200-ennale	216.00	115.80	118.13	120.86	2.73	120.86	2.73	119.01	121.17	0.026908	7.72	27.96	11.99	1.61
T. Cerusa	78	50-ennale	141.00	115.80	117.54	120.86	3.32	120.86	3.32	118.21	119.87	0.027813	6.78	20.81	11.99	1.64
T. Cerusa	77	500-ennale	283.00	114.40	115.90	116.00	0.10	116.00	0.10	116.99	120.51	0.082099	9.52	29.74	29.68	3.03
T. Cerusa	77	200-ennale	216.00	114.40	115.72	116.00	0.28	116.00	0.28	116.66	119.60	0.079140	8.72	24.76	27.38	2.93
T. Cerusa	77	50-ennale	141.00	114.40	115.49	116.00	0.51	116.00	0.51	116.23	118.38	0.072786	7.52	18.74	24.33	2.74
T. Cerusa	76.2	500-ennale	283.00	112.50	116.22	118.00	1.78	120.00	3.78	114.36	116.41	0.000703	1.91	148.48	44.39	0.33
T. Cerusa	76.2	200-ennale	216.00	112.50	115.63	118.00	2.37	120.00	4.37	114.07	115.79	0.000739	1.76	122.61	43.26	0.33
T. Cerusa	76.2	50-ennale	141.00	112.50	114.85	118.00	3.15	120.00	5.15	113.69	114.98	0.000842	1.58	89.47	41.70	0.34