



CIUTAT DE L'ALGUER
CITTA' DI ALGHERO

COMUNE DI ALGHERO

PROVINCIA DI SASSARI



REGIONE AUTÒNOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

STUDI DI DETTAGLIO PER L'ADEGUAMENTO DEGLI STRUMENTI URBANISTICI COMUNALI AL PIANO DI ASSETTO IDROGEOLOGICO ai sensi dell'art.8 comma 2 delle N.A. del PAI

STUDIO DI COMPATIBILITA' IDRAULICA

ELABORATO :							
REPORT DEI CALCOLI IDRAULICI IN MOTO PERMANENTE							
REVISIONI				C-3	ALLEGATO	SCALA	
n°	MODIFICA	DATA	CTRL		CODICE		
01	Consegna	Luglio 2017	FC		NOTE		

I Professionisti incaricati :
Ing. Fabio Cambula

Geol. Alessandro Muscas

Arch. Laura Carbini

Il Dirigente
Dott. Guido Calzia

Ufficio del Piano Urbanistico
Arch. Baldassarre Riu
Ing. Vincenzo Sanna
Geom. Franco Cherchi

Il Sindaco:
Dott. Mario Bruno

COMUNE DI ALGHERO (SS)

Studio di compatibilità idraulica ai sensi dell'art. 8 comma 2bis delle N.A. del PAI

Area d'indagine: territorio comunale

SIMULAZIONI IN MOTO PERMANENTE

Gruppo Rio Calabona

Aste torrentizie studiate:

- Asta 72425

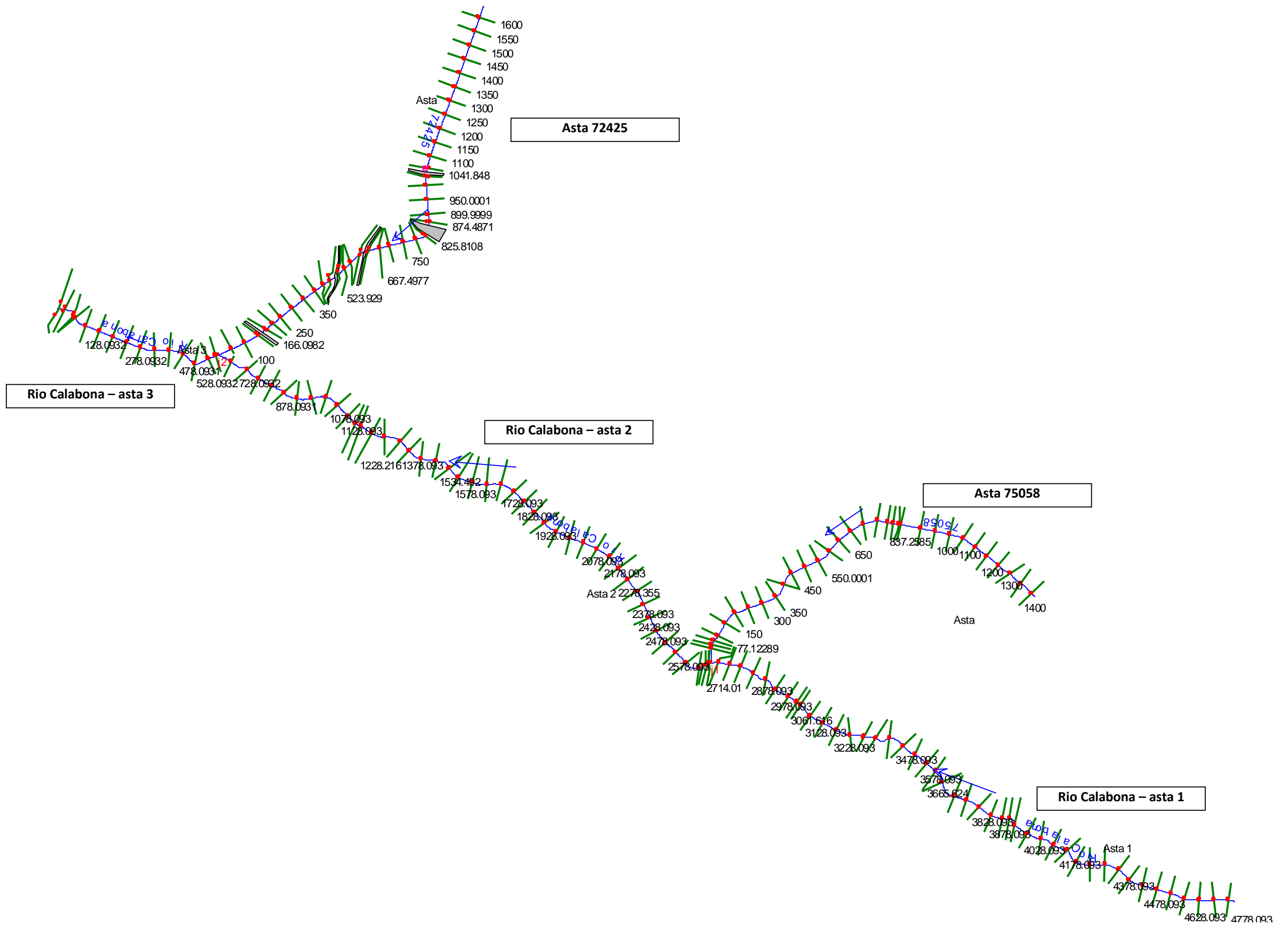
- Asta 75058

- Rio Calabona (3 aste)

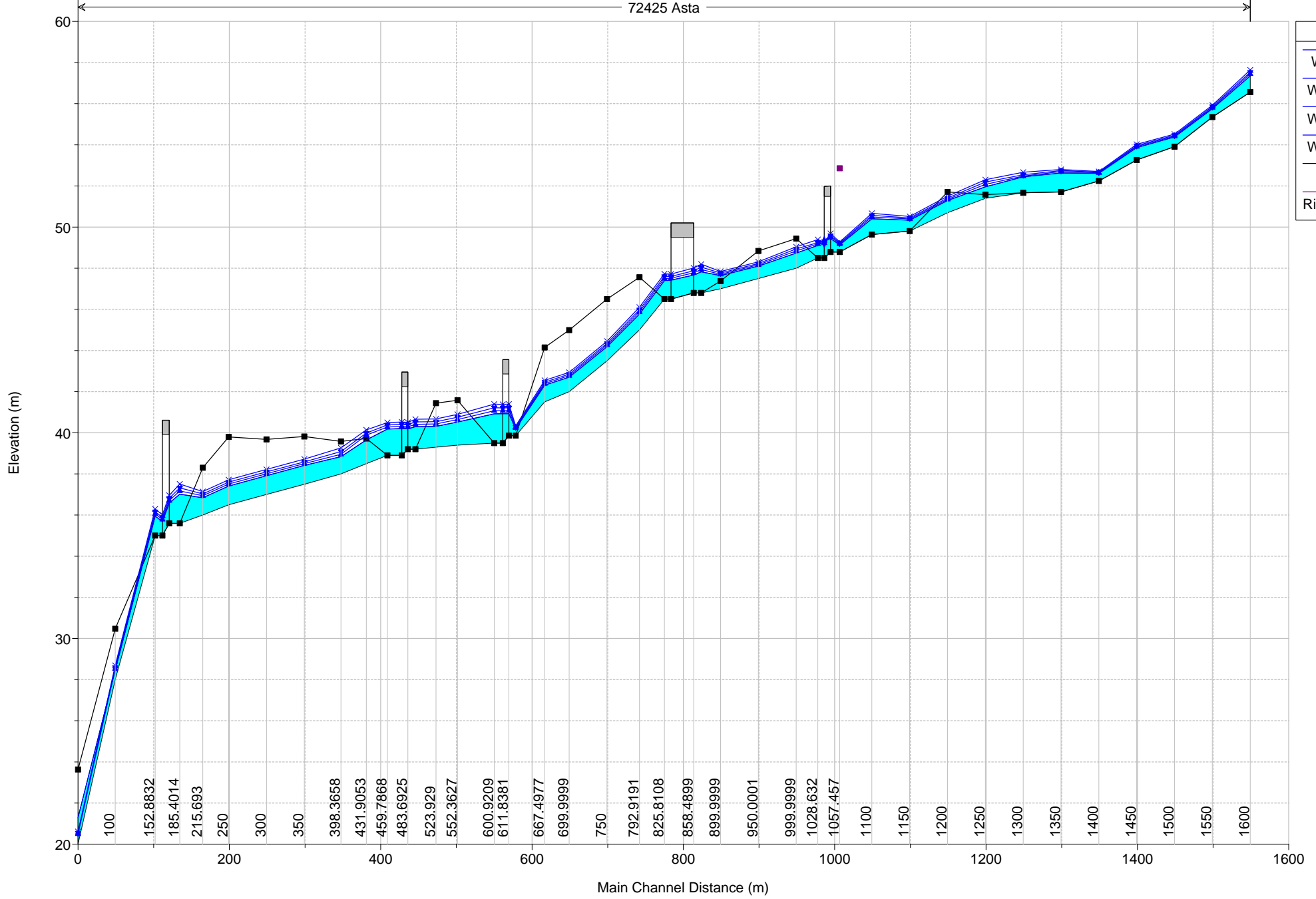
- Schemi planimetrici
- Profili longitudinali dei tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Sezioni trasversali con i tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Tabelle numeriche delle grandezze geometriche e idrauliche di input e output

River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
72425	Asta	1600	13.778	16.237	18.723	22.065
72425	Asta	825.8108	23.862	28.213	32.607	38.491
72425	Asta	600.9209	25.66	30.43	35.25	41.686
75058	Asta	1400	8.061	9.321	10.601	12.368
Rio Calabona	Asta 1	4778.093	24.307	28.808	33.383	39.599
Rio Calabona	Asta 2	2718.168	40.097	47.824	55.655	66.15
Rio Calabona	Asta 3	604.1613	62.72	74.765	86.957	103.239

River	Reach	PROFILI	CONDIZIONI AL CONTORNO	
			upstream	downstream
72425	Asta	tutti	Critical depth	junction=j2
75058	Asta	tutti	Critical depth	junction=j1
Rio Calabona	Asta 1	tutti	junction=j2	Known WS=1.80 m slm
Rio Calabona	Asta 2	tutti	junction=j1	junction=j2
Rio Calabona	Asta 3	tutti	Critical depth	junction=j1

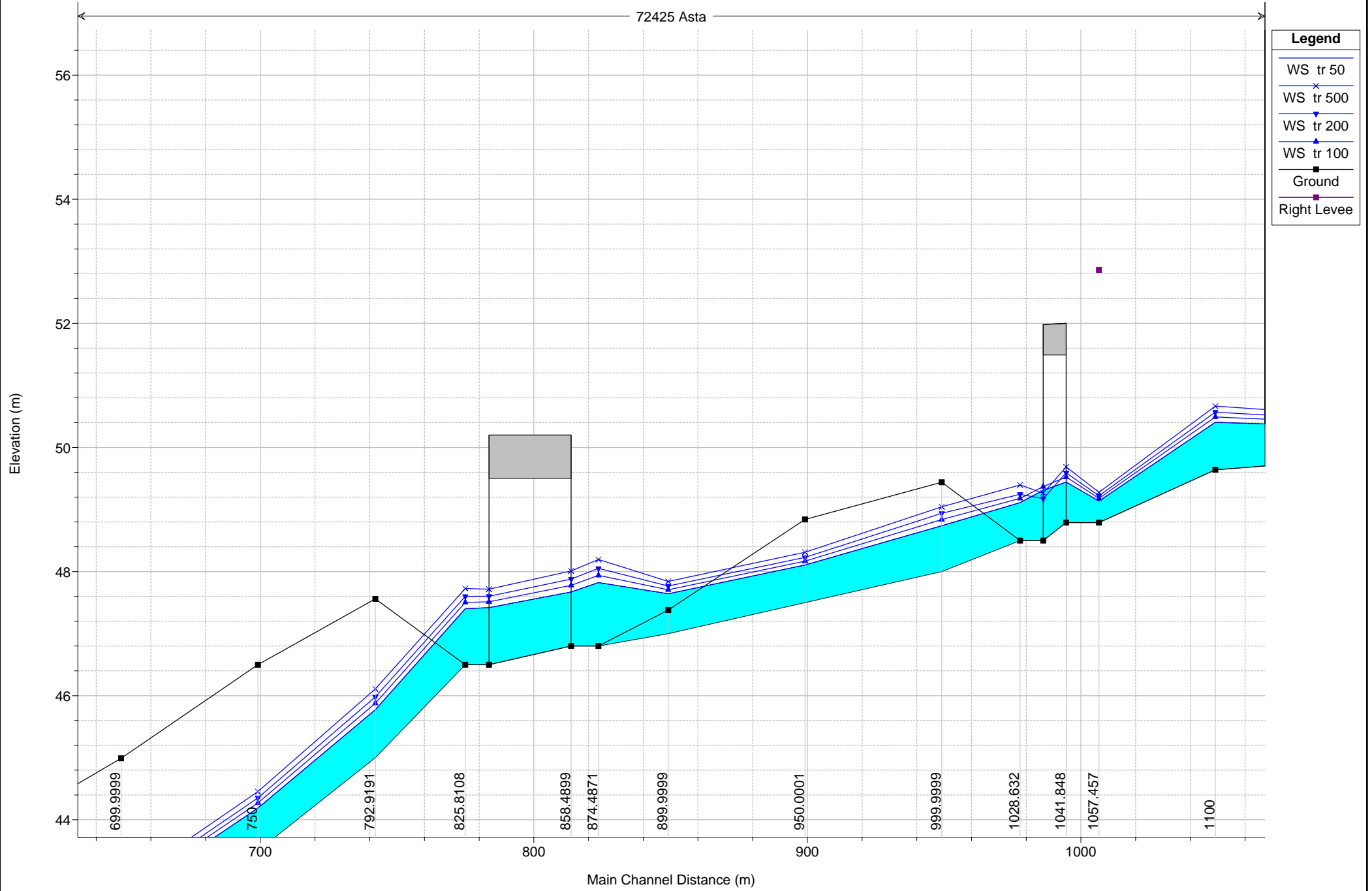


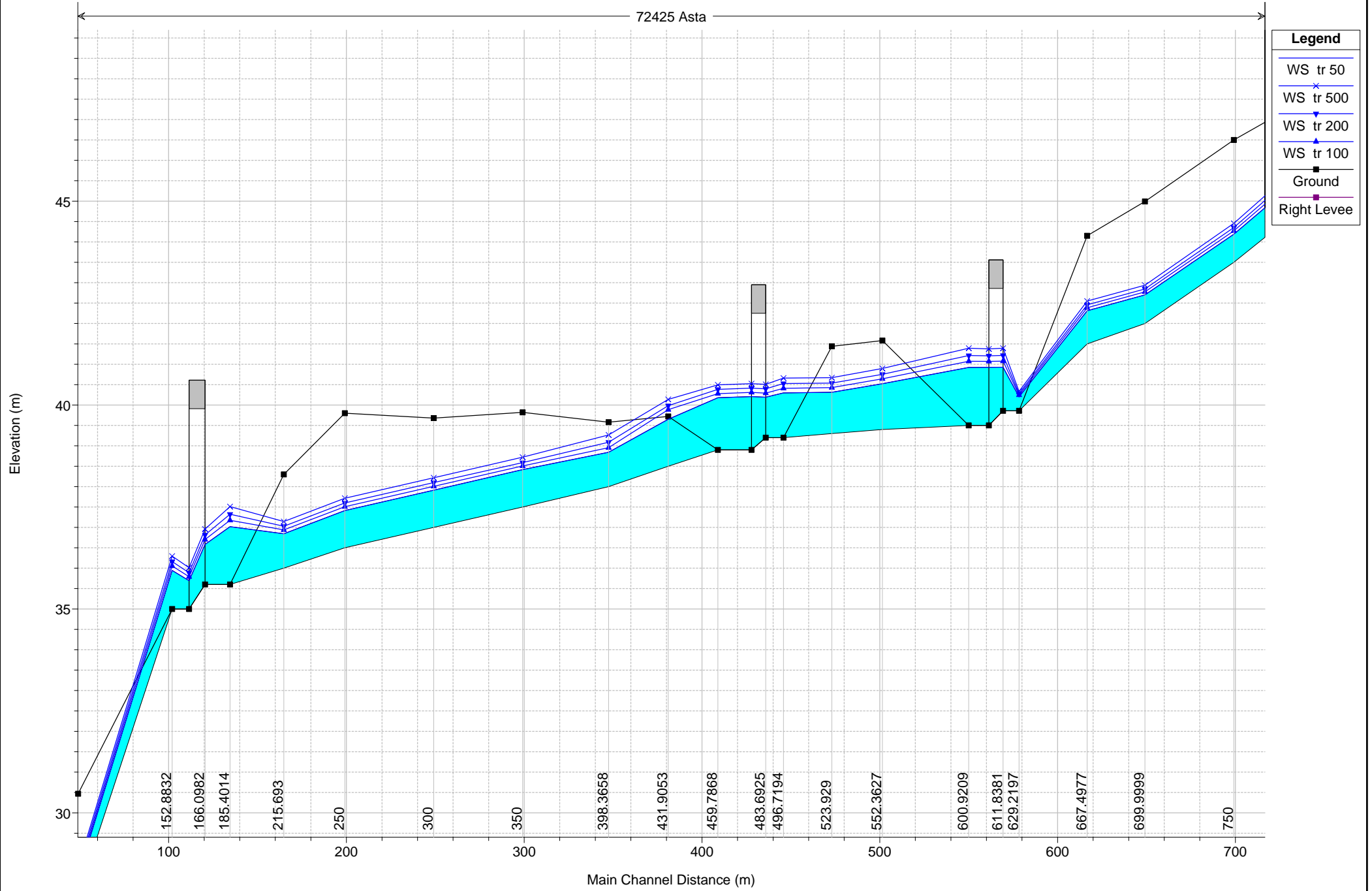
72425 Asta



Legend

- WS tr 50
- WS tr 500
- WS tr 200
- WS tr 100
- Ground
- Right Levee

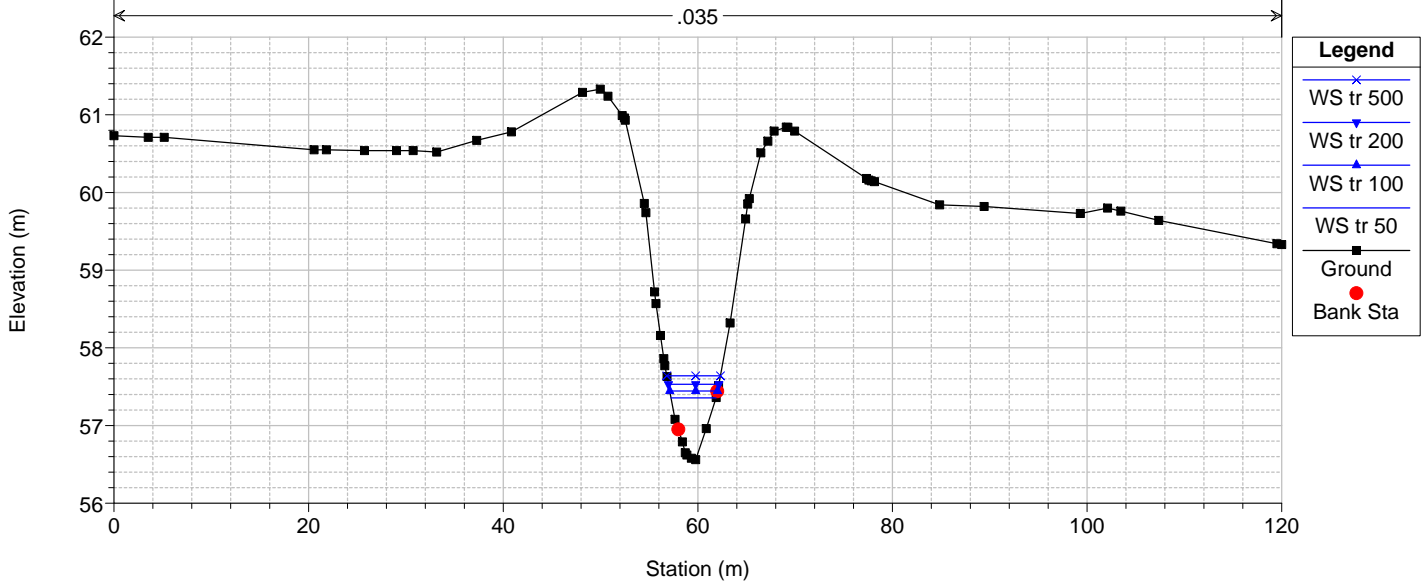




calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

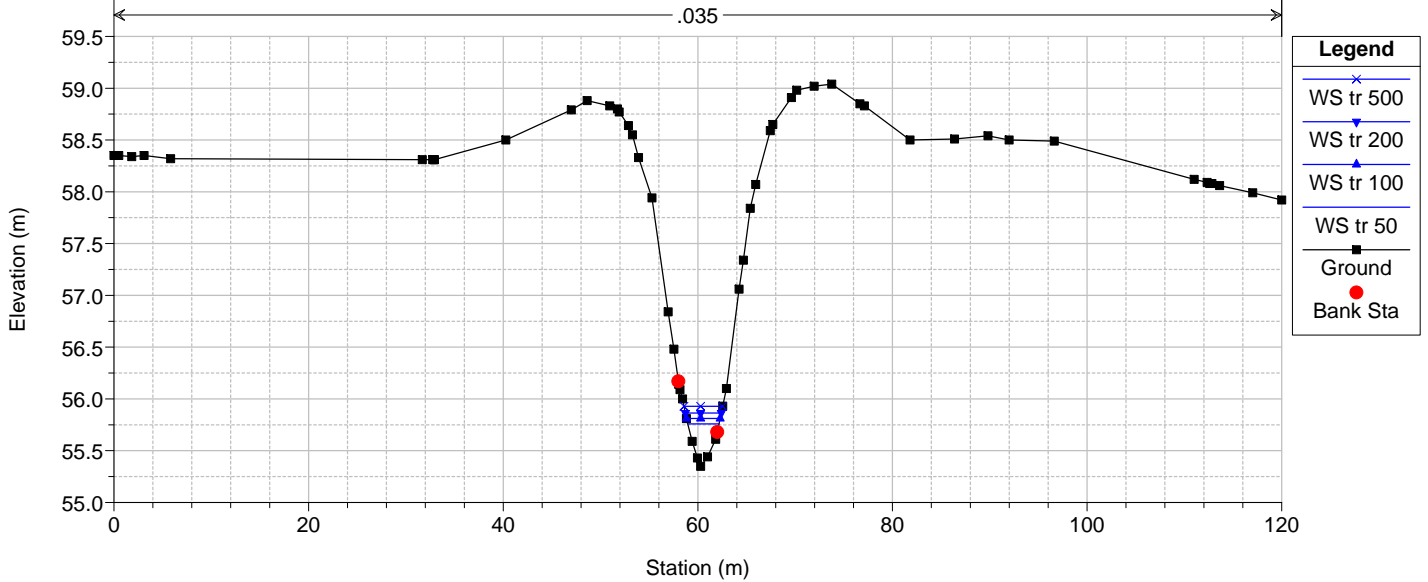
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

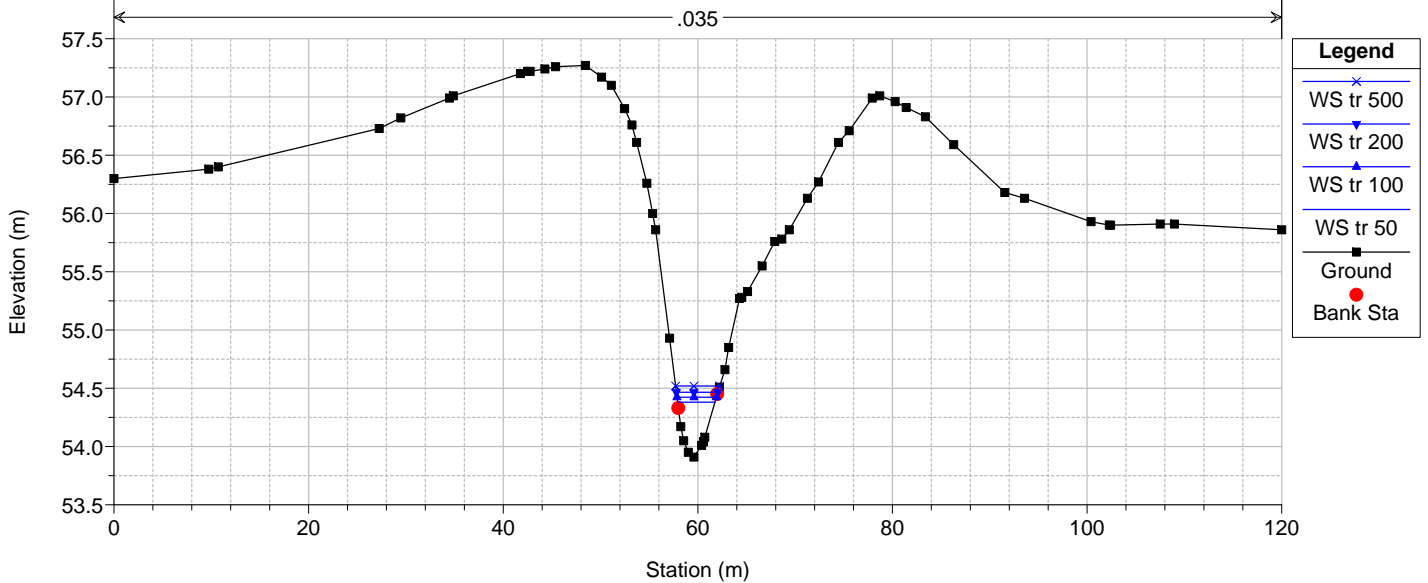
River = 72425 Reach = Asta RS = 1550 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

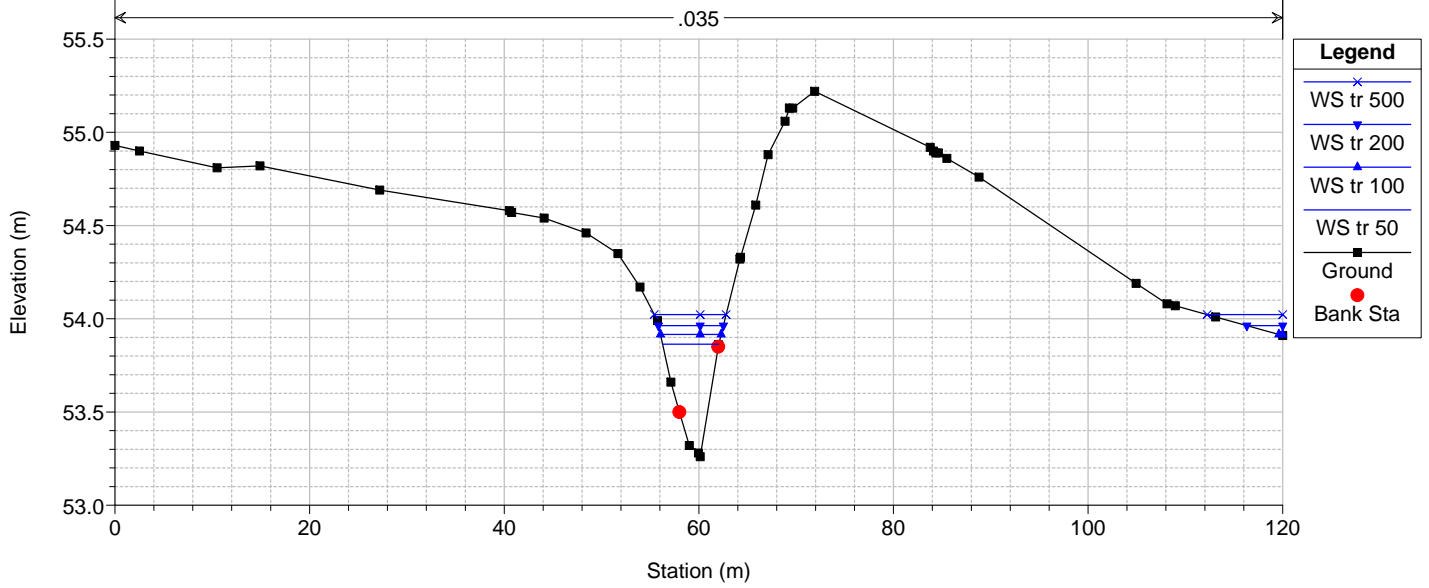
River = 72425 Reach = Asta RS = 1500 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



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Geom: calabona19092017 Flow: calabona19092017

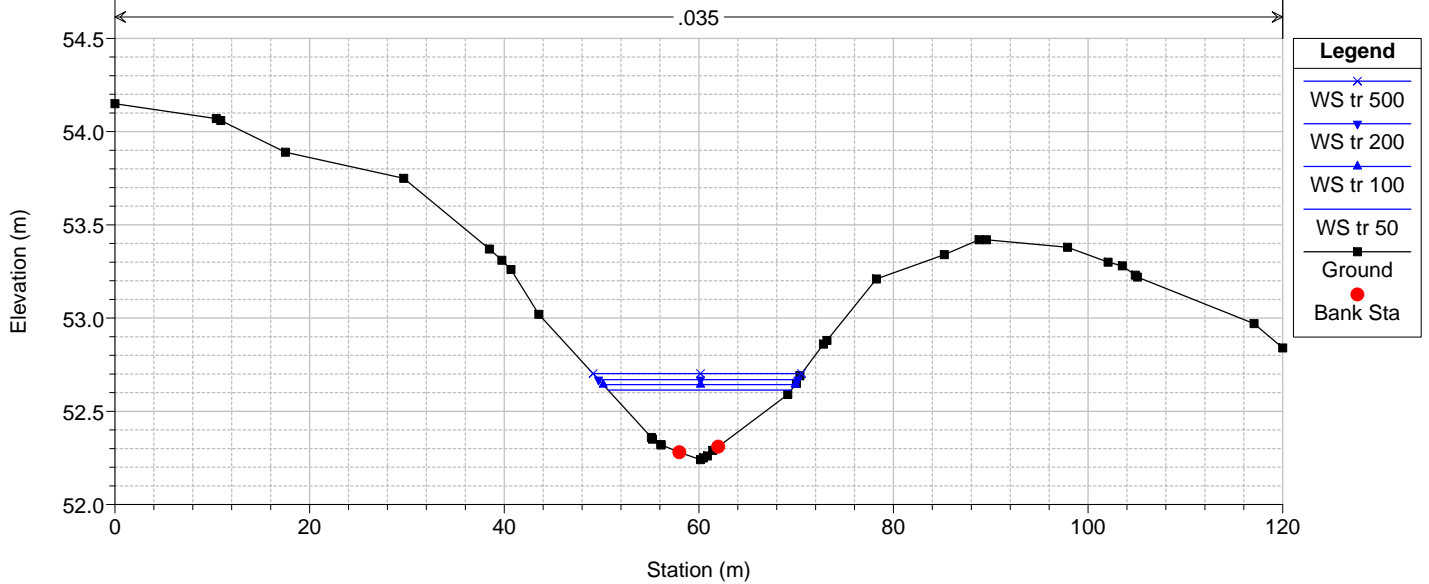
River = 72425 Reach = Asta RS = 1450 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

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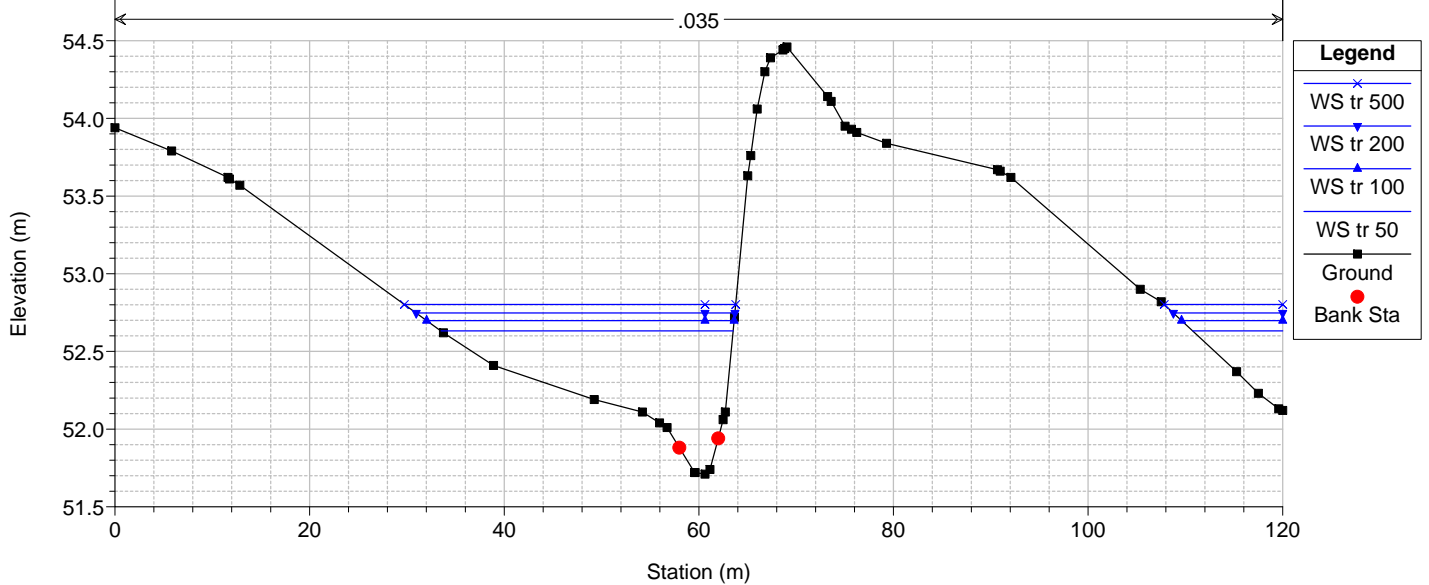
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Geom: calabona19092017 Flow: calabona19092017

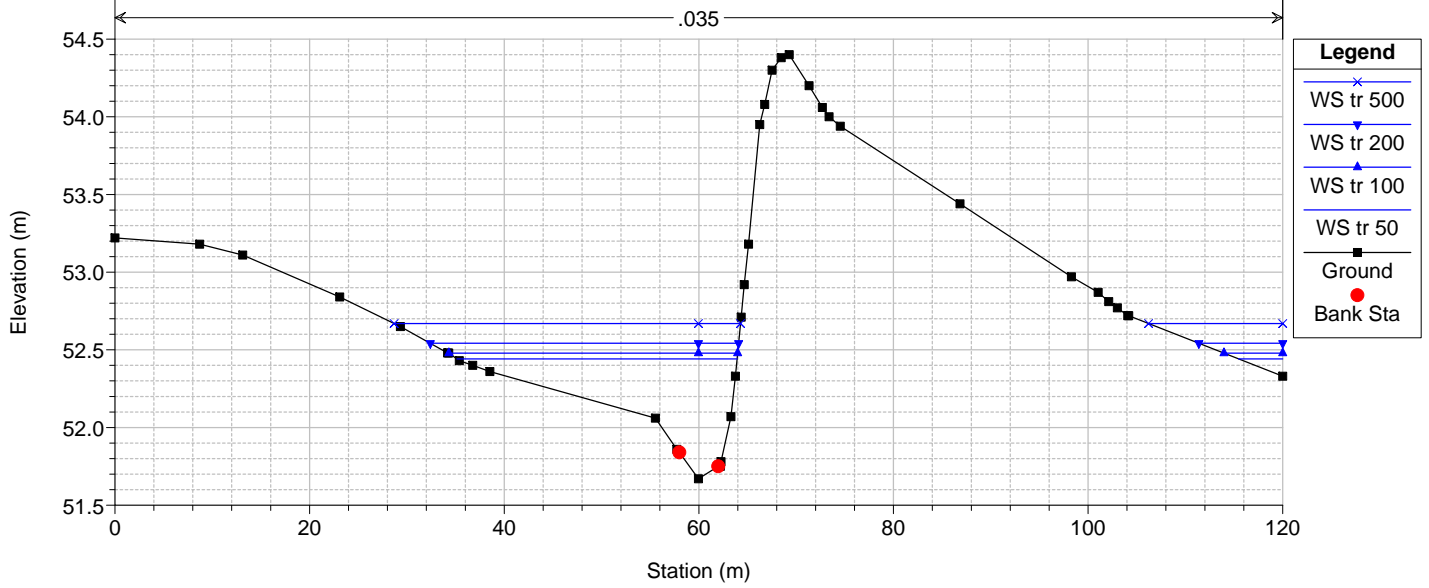
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

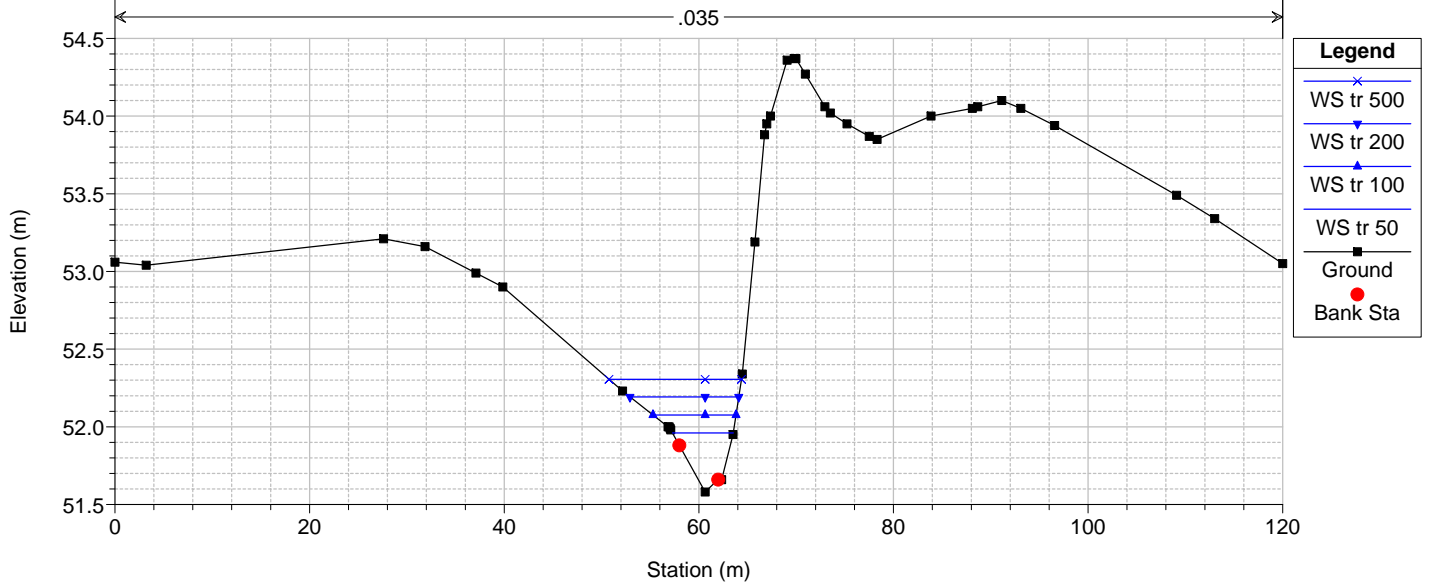
River = 72425 Reach = Asta RS = 1300 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

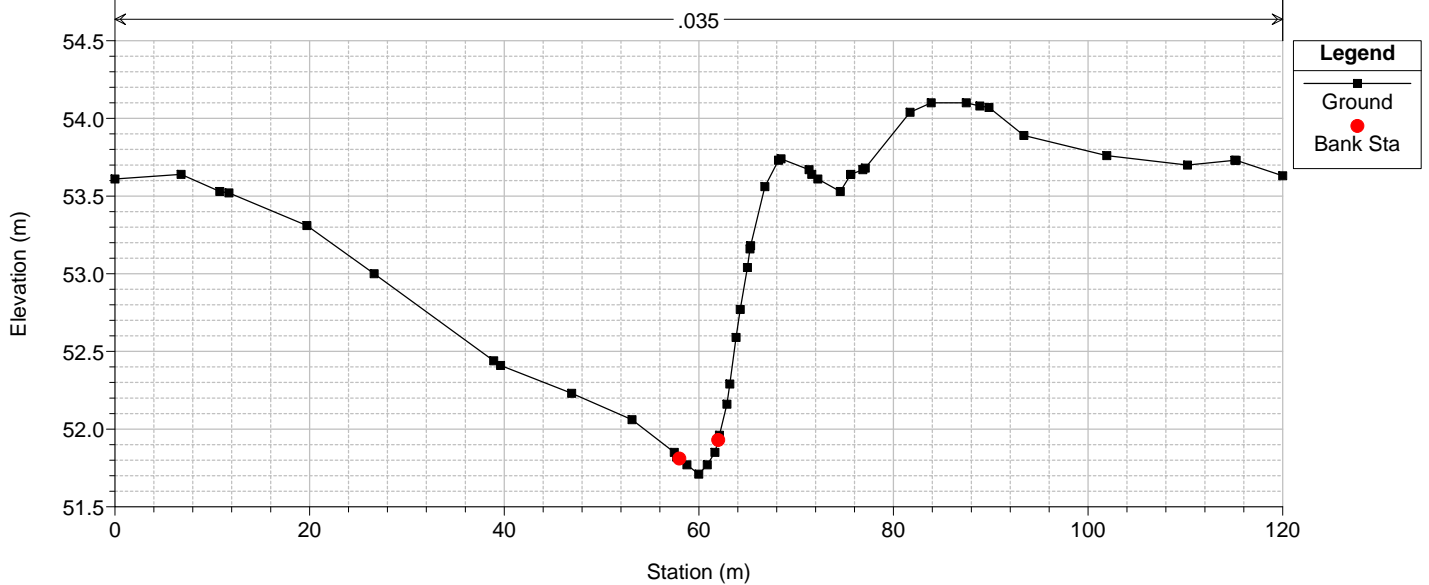
River = 72425 Reach = Asta RS = 1250 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

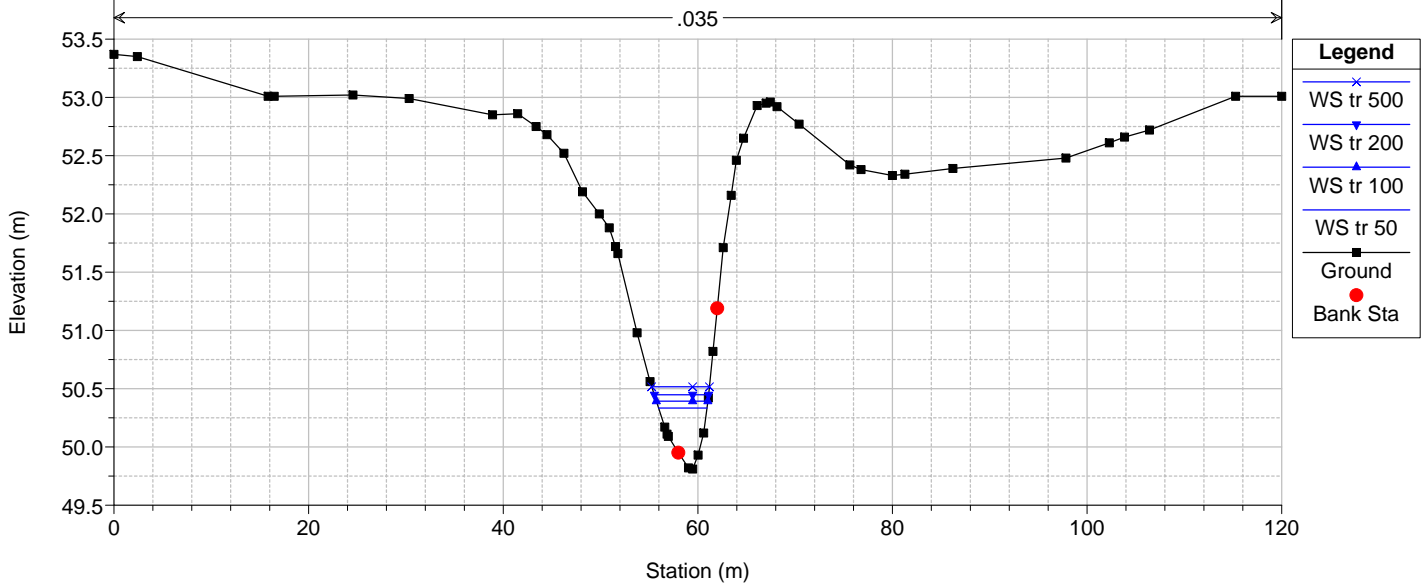
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

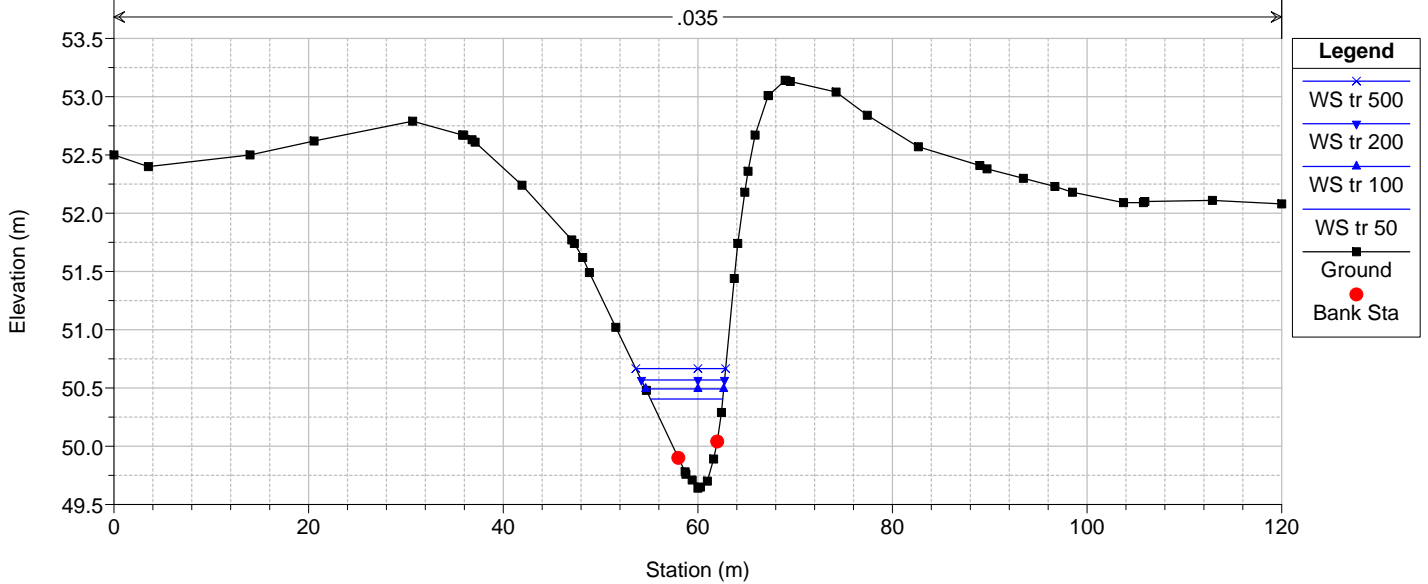
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calabona19092017 Plan: Plan 01 9/25/2017

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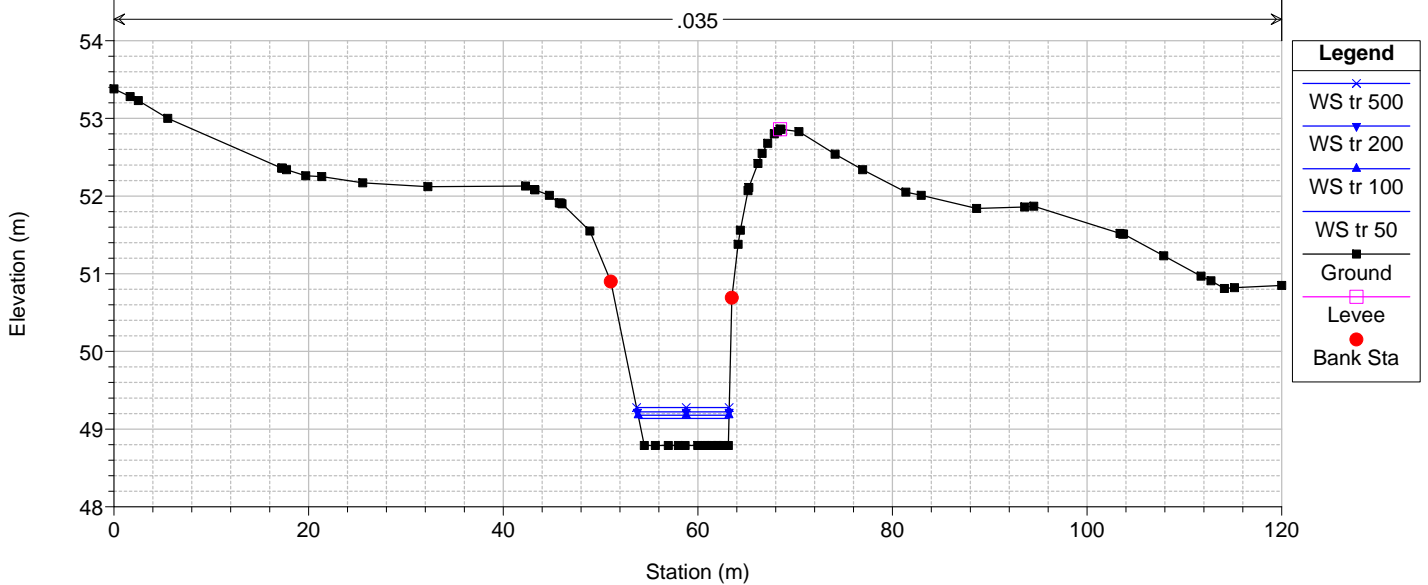
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

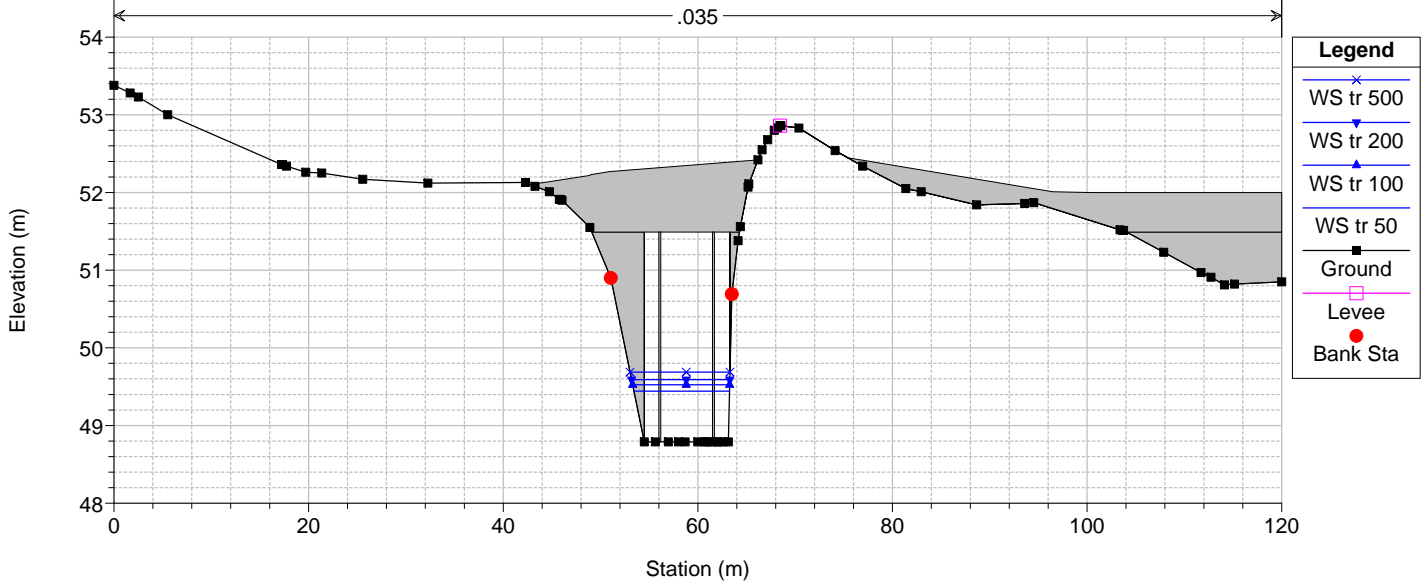
River = 72425 Reach = Asta RS = 1057.457 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

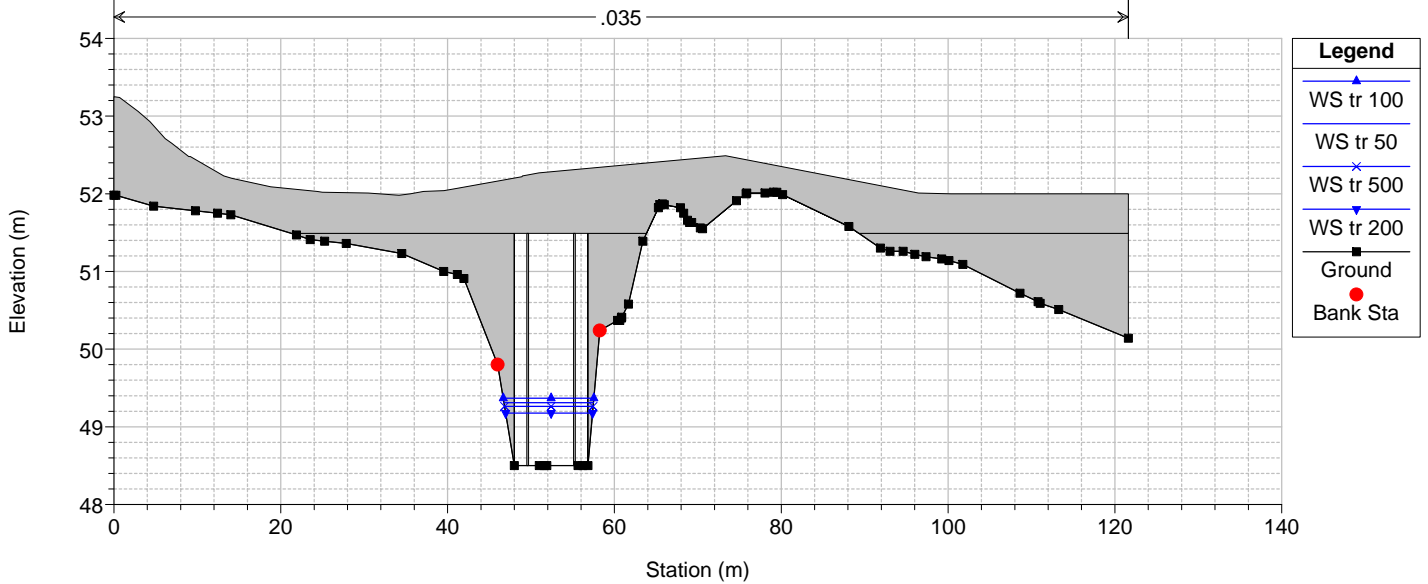
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

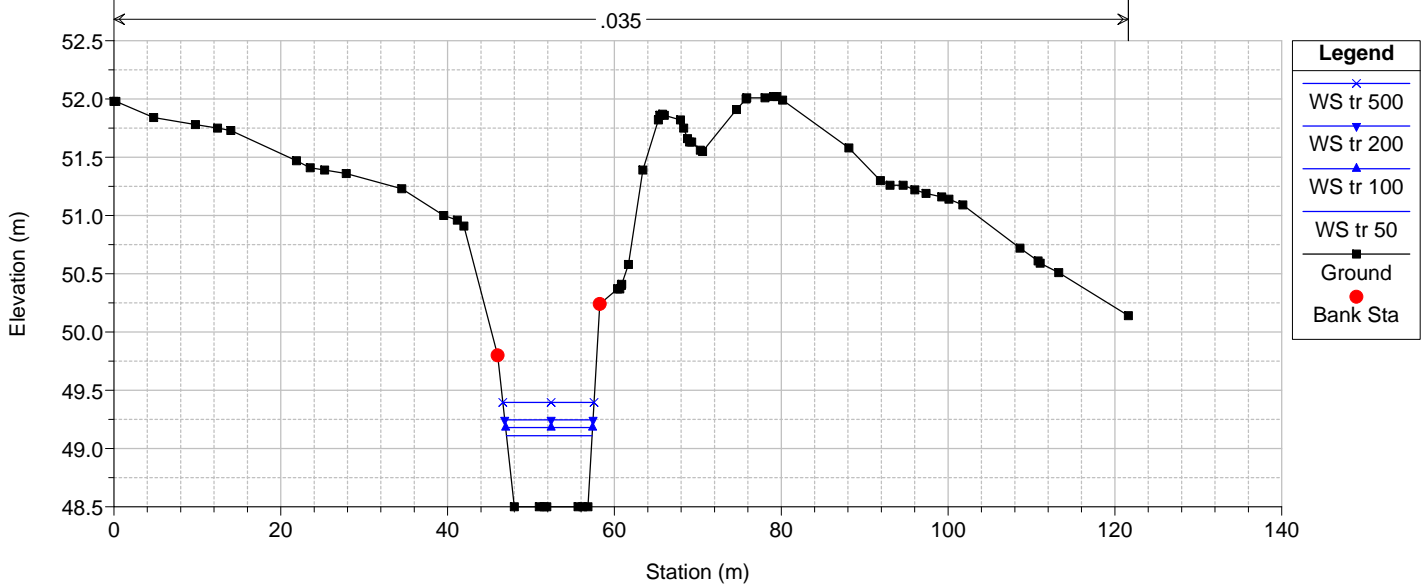
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

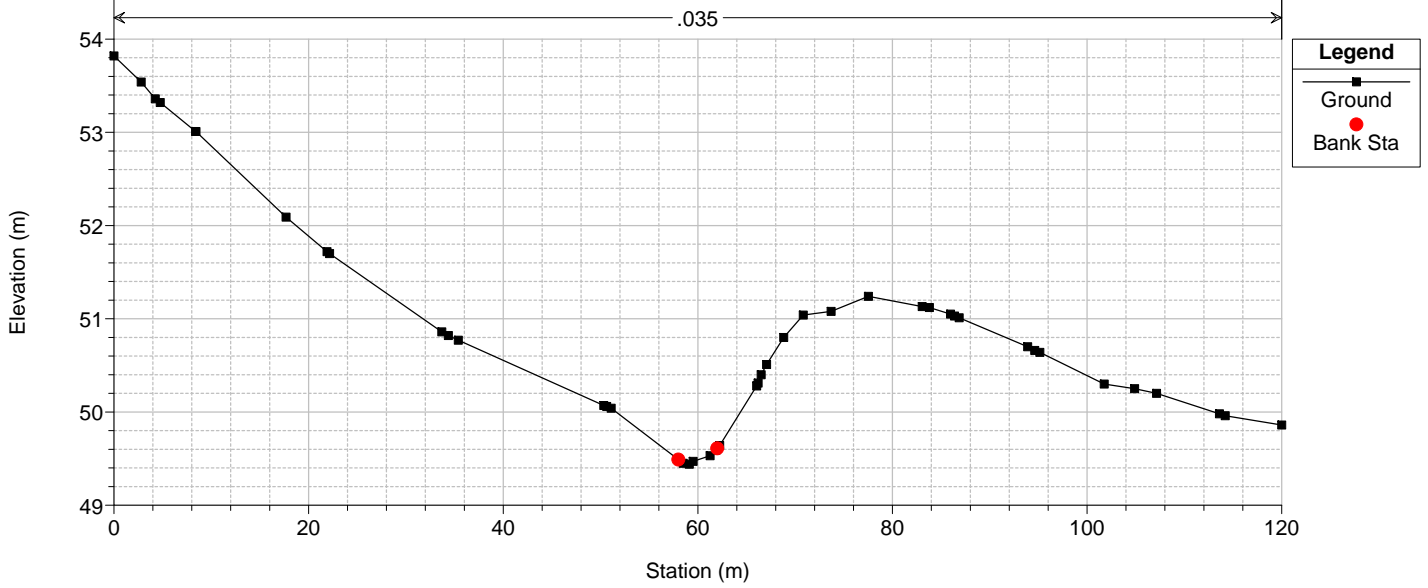
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

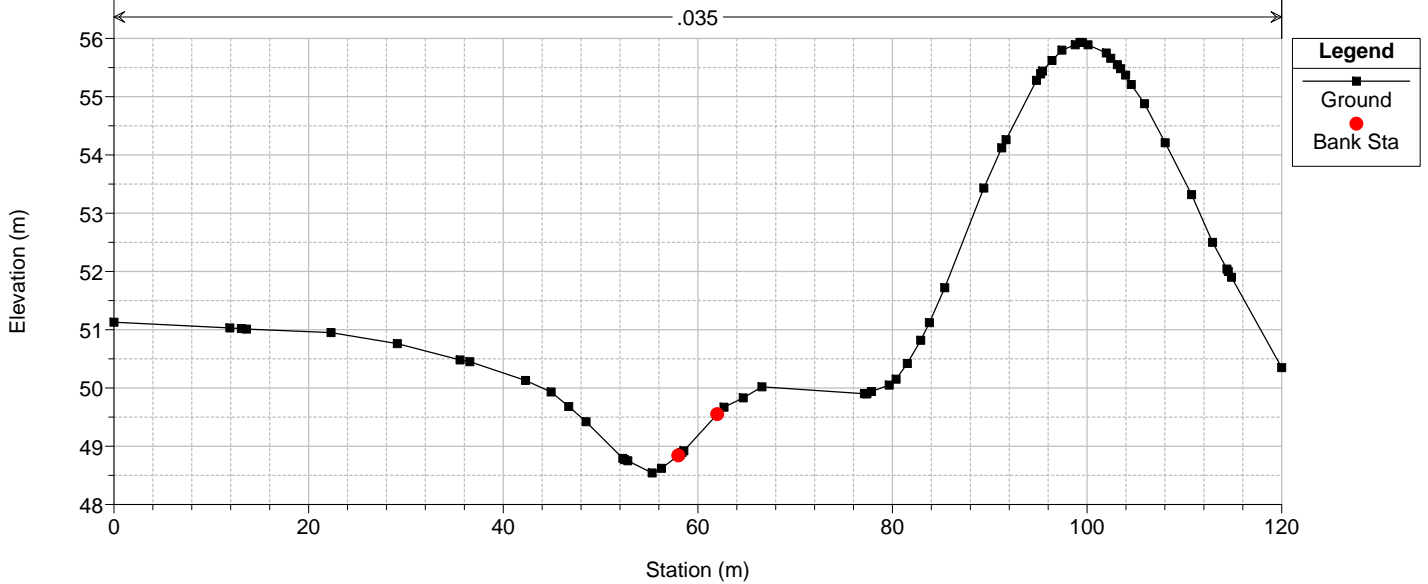
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

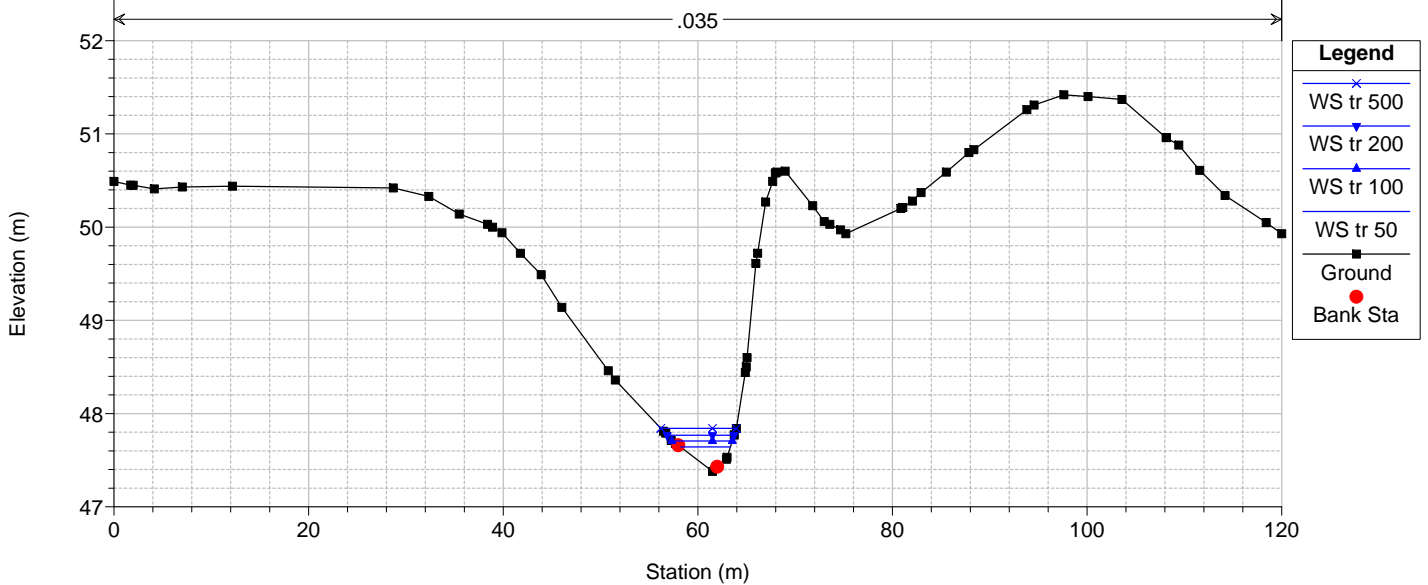
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

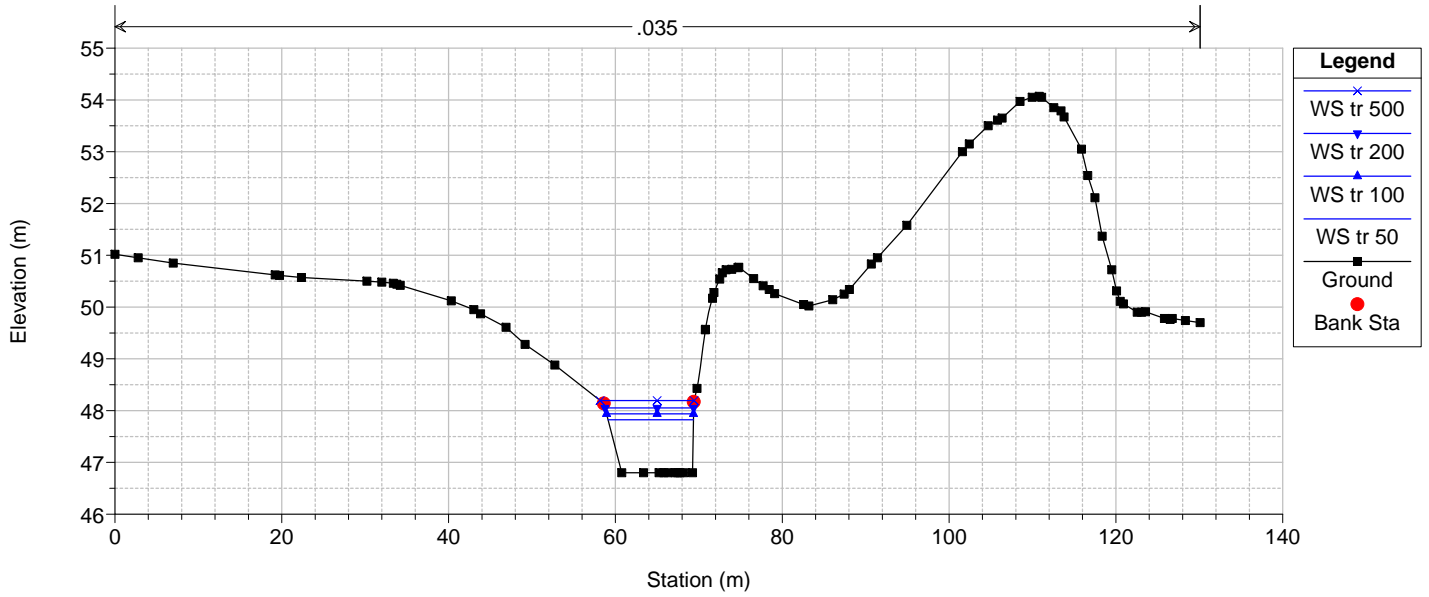
River = 72425 Reach = Asta RS = 899.9999 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

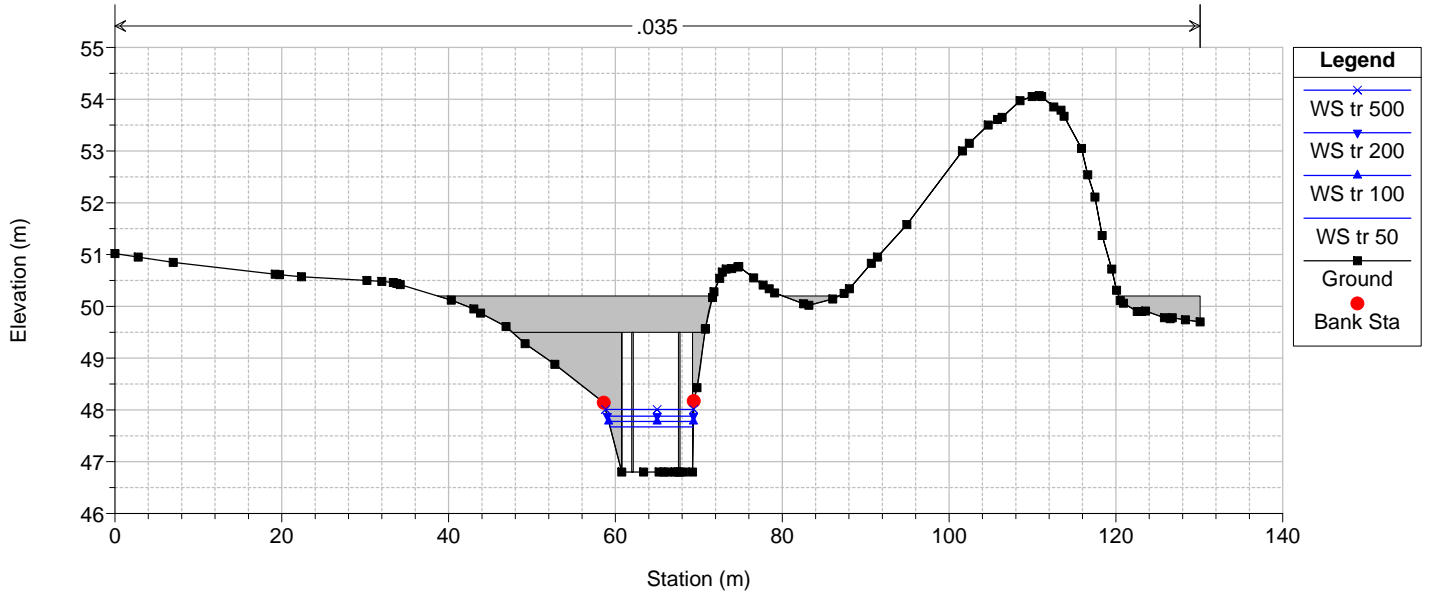
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

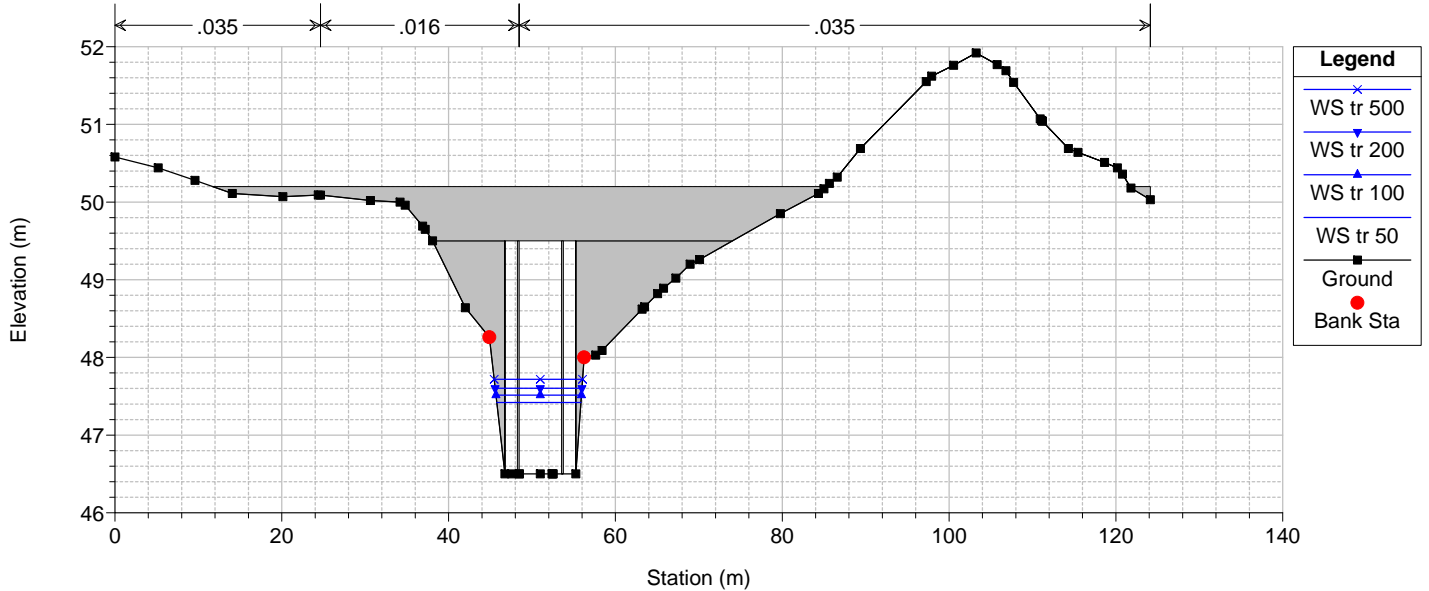
River = 72425 Reach = Asta RS = 858.4899 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

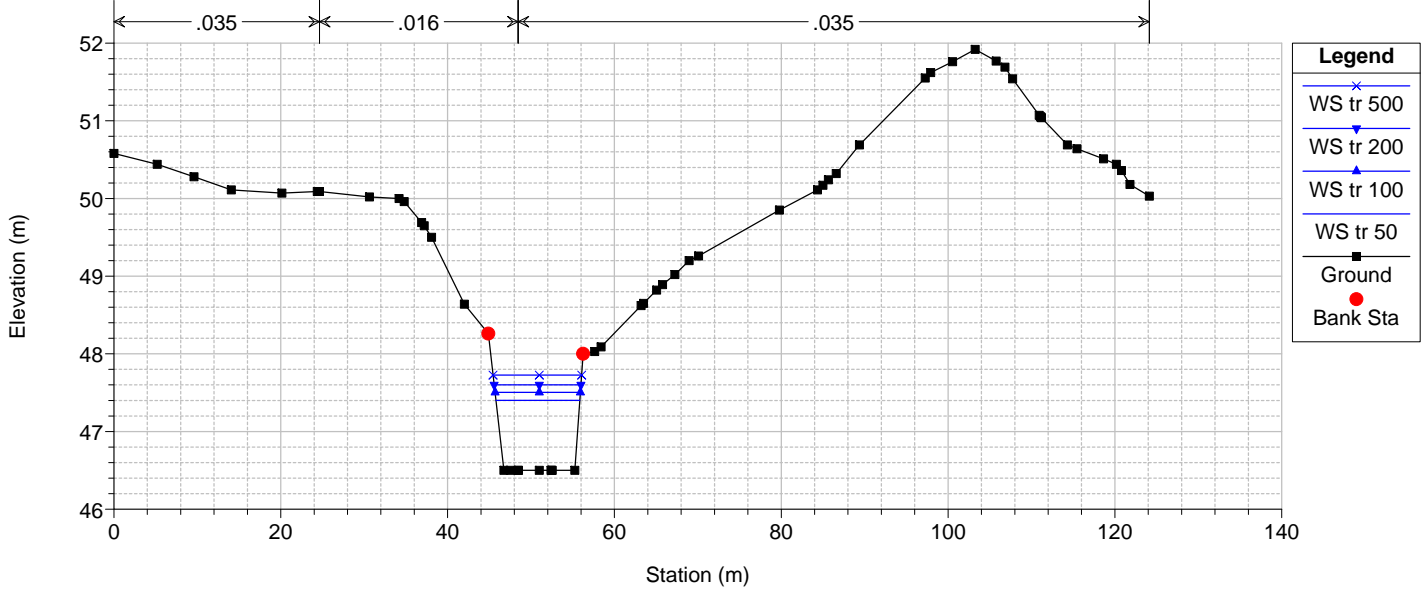
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

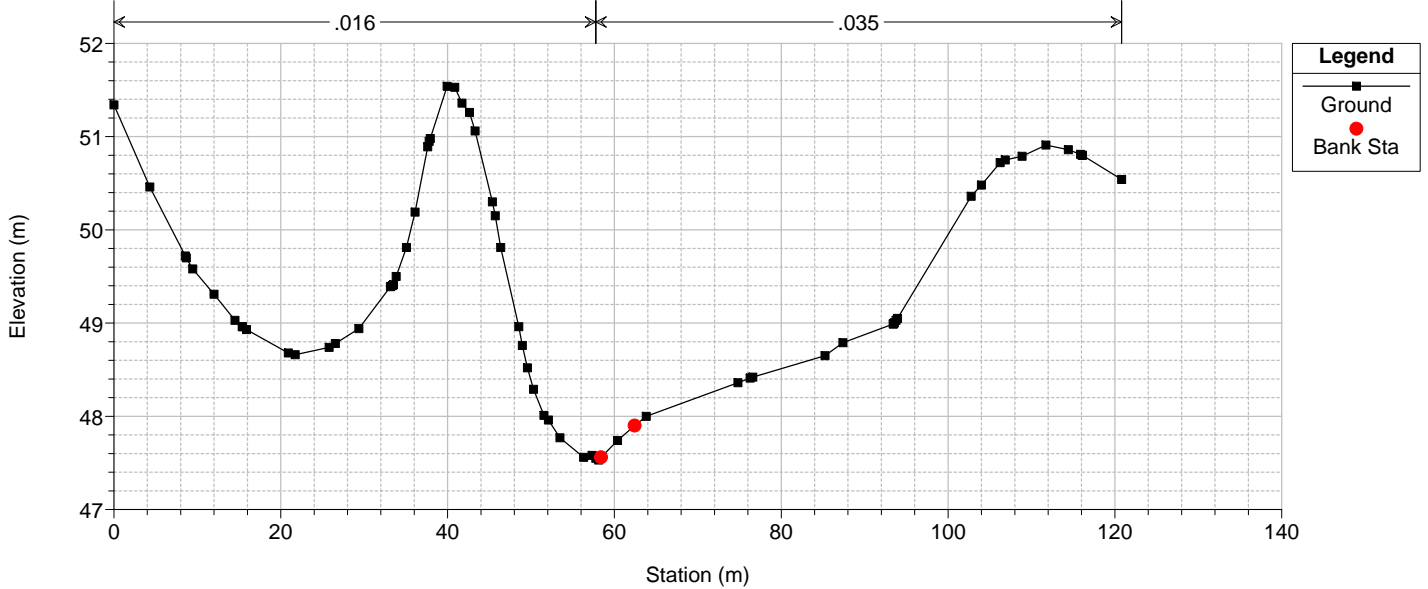
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

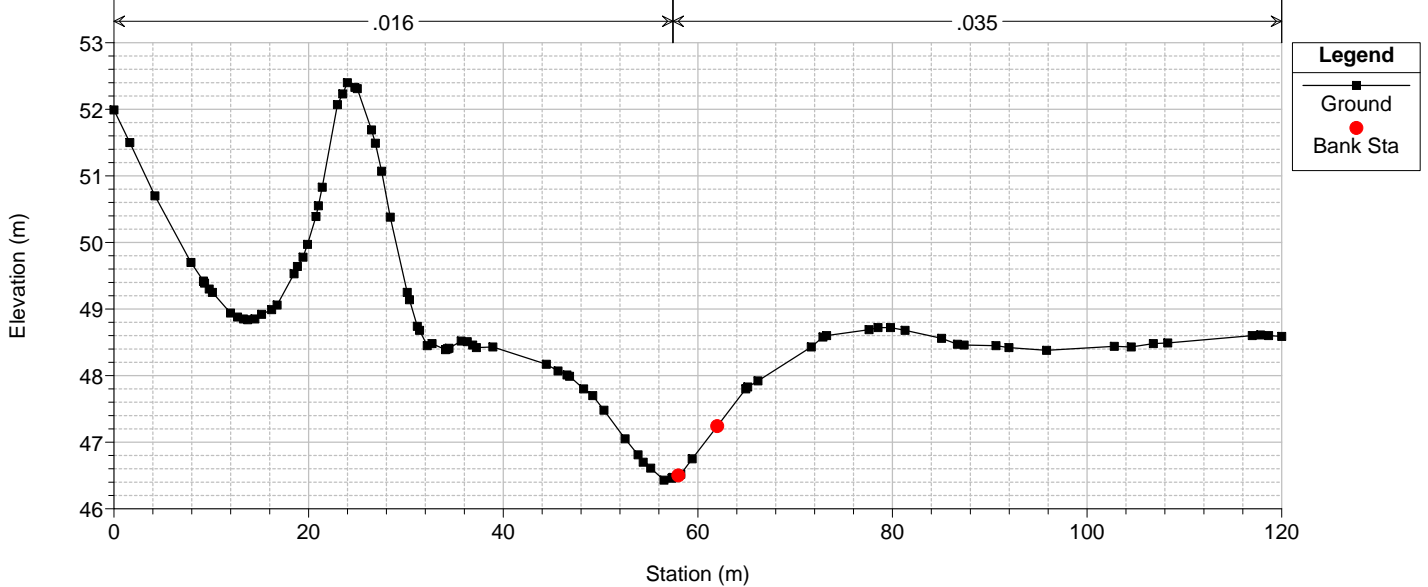
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

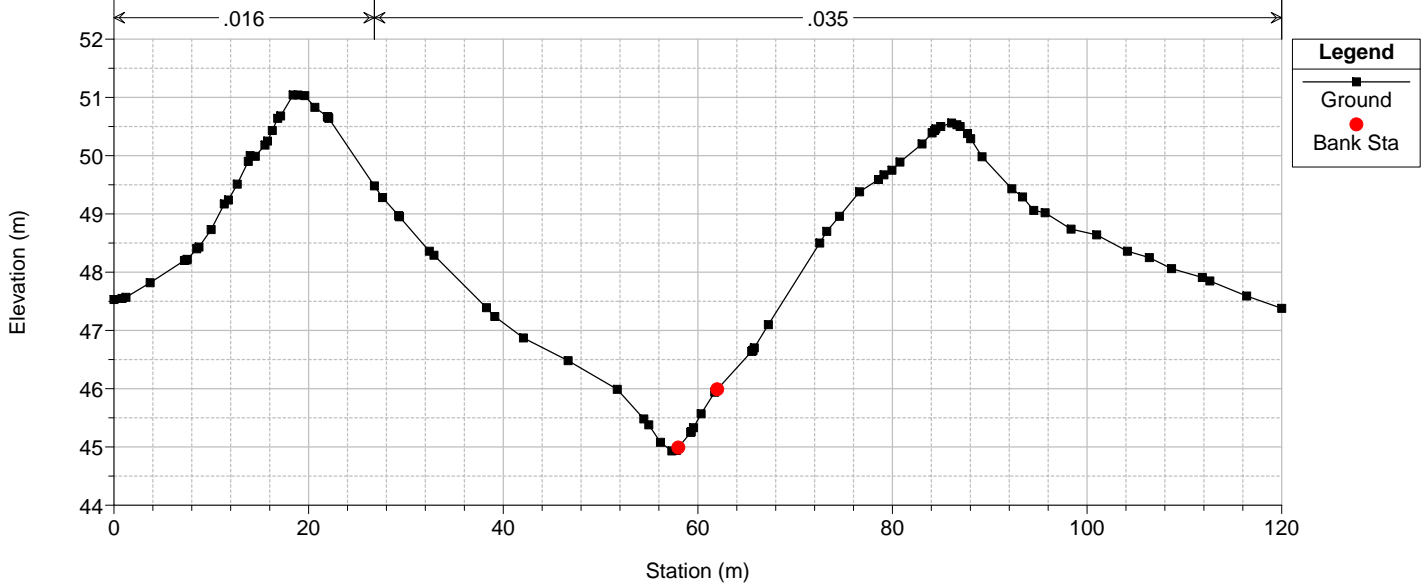
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

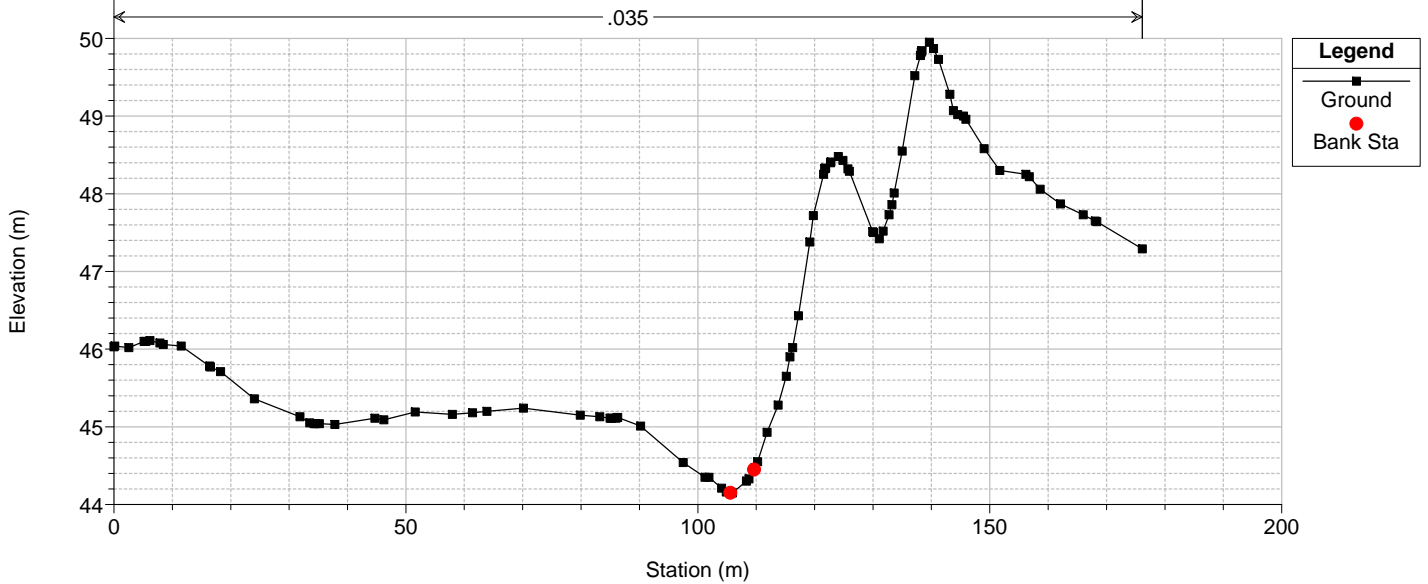
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

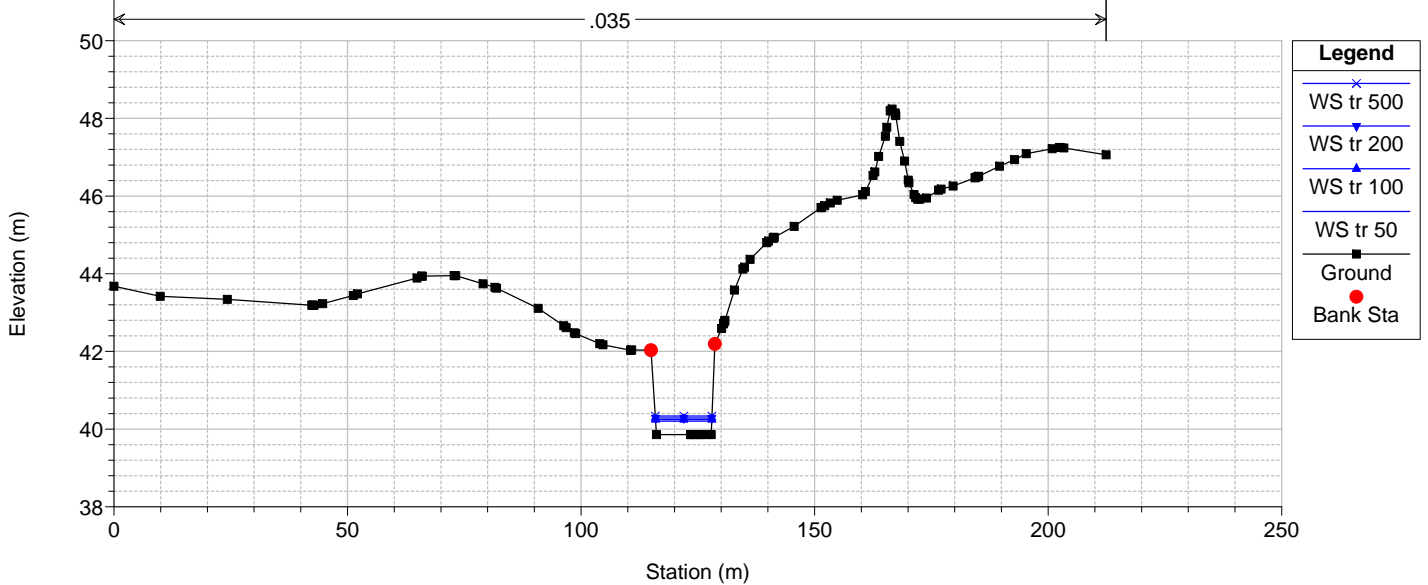
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

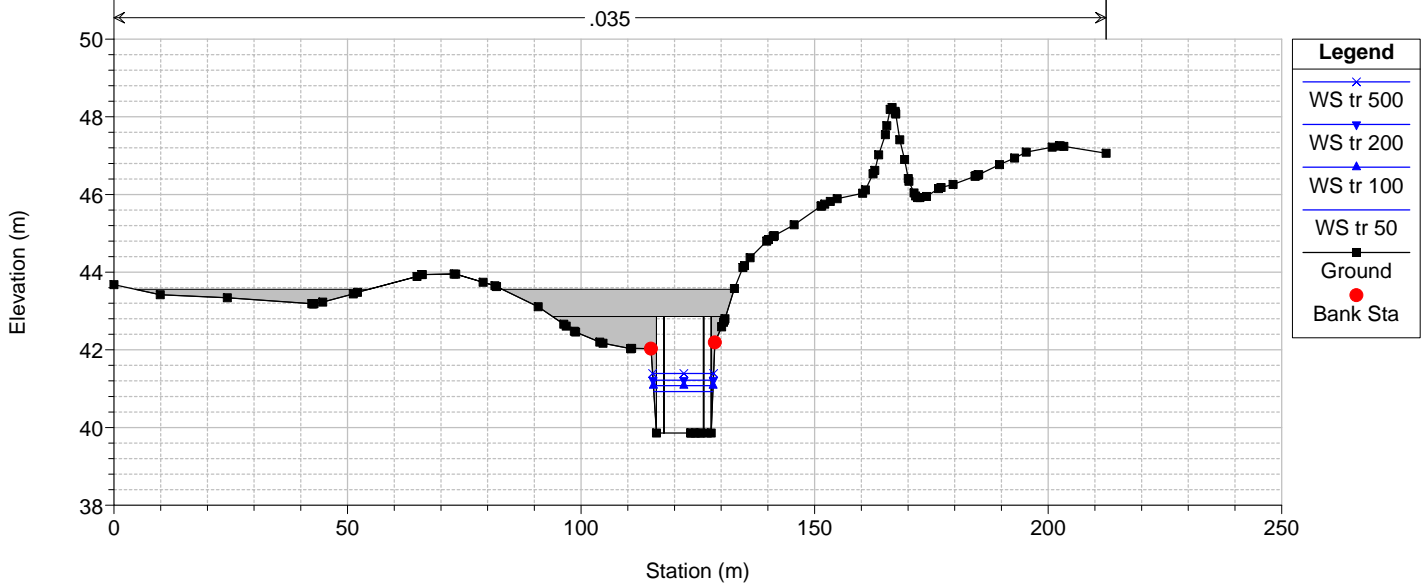
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

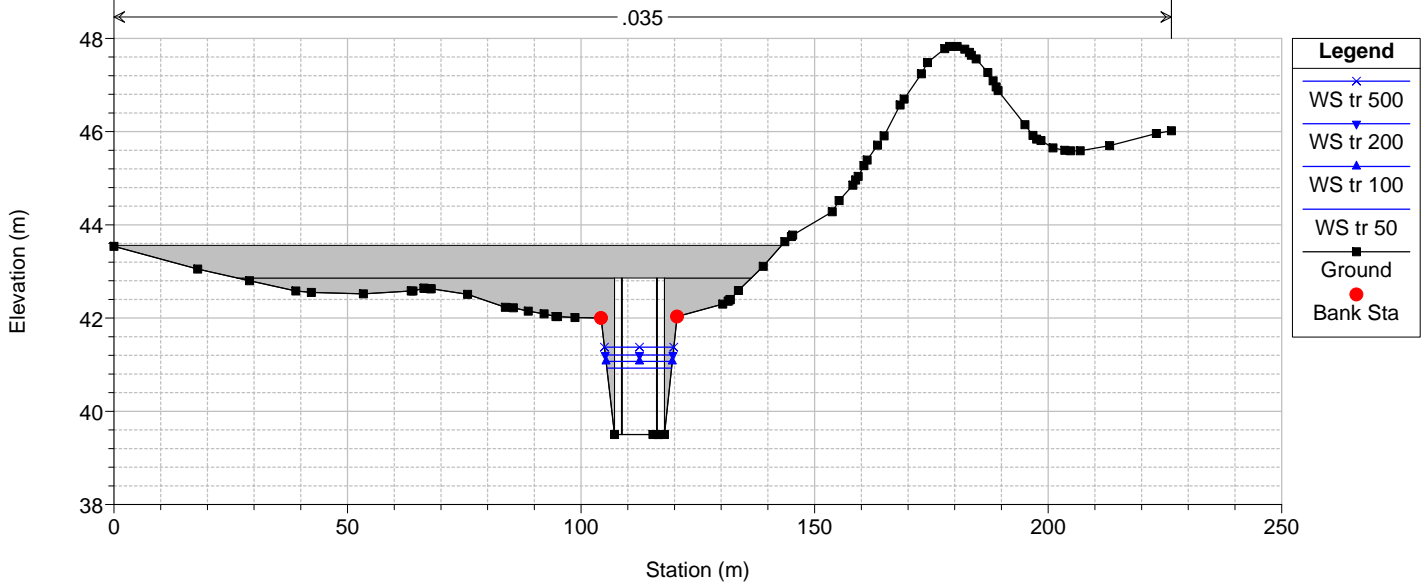
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Geom: calabona19092017 Flow: calabona19092017

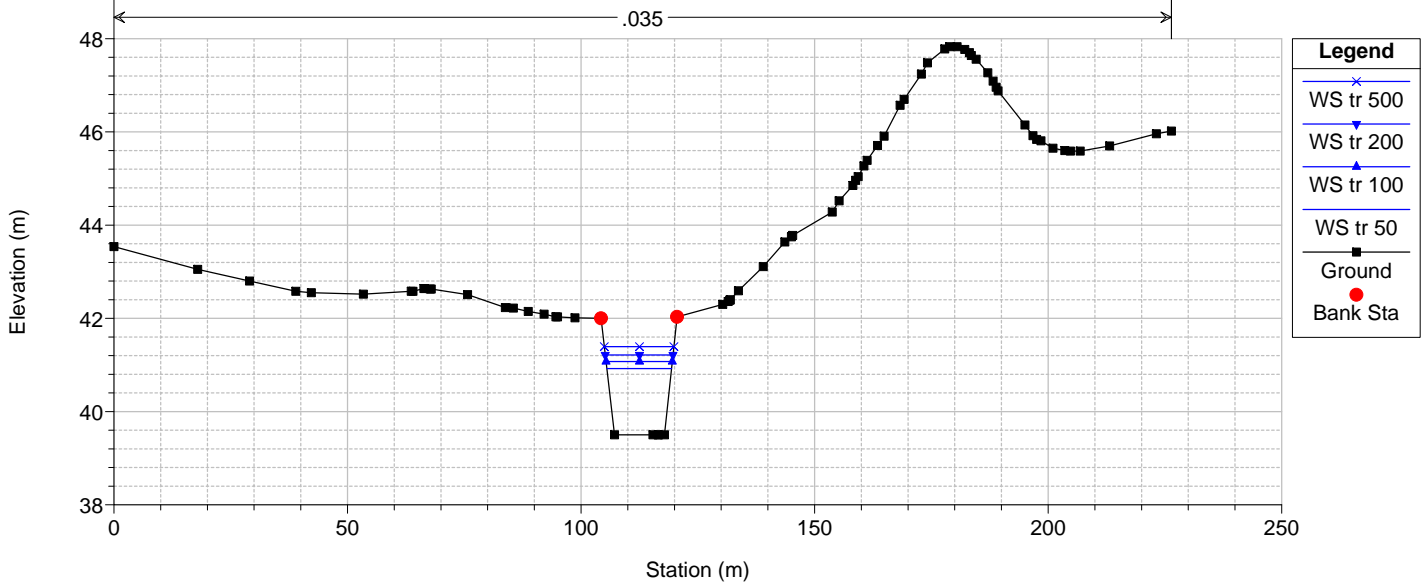
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

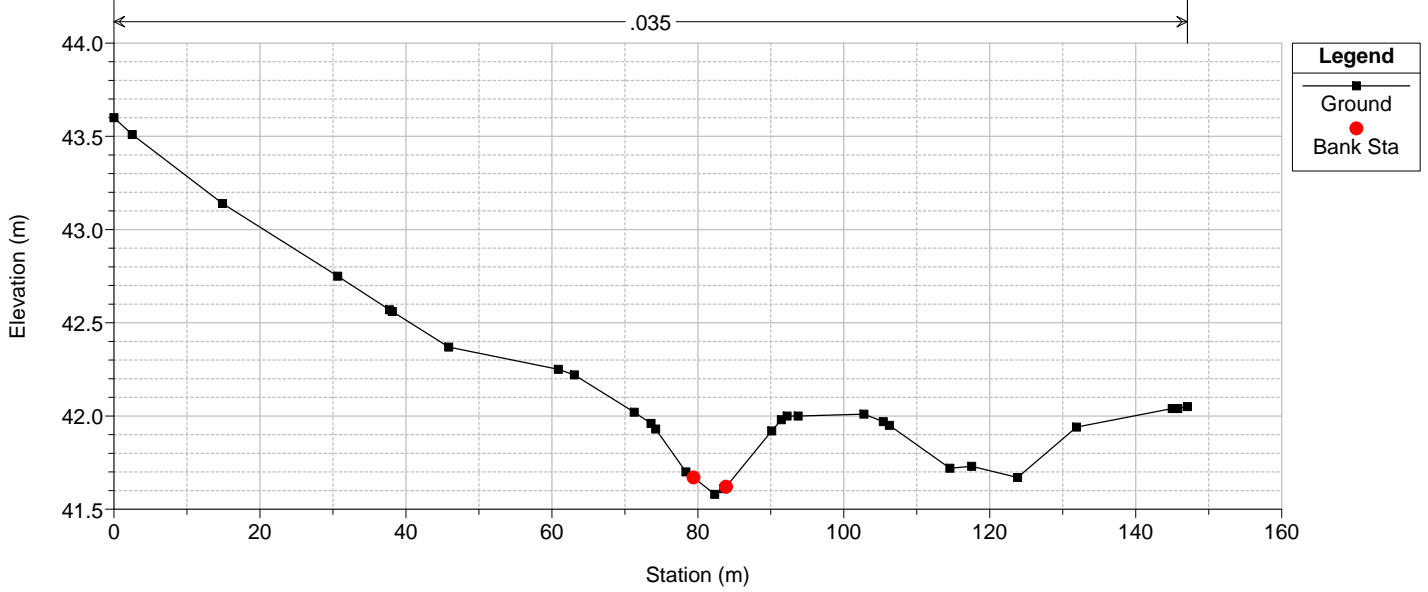
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

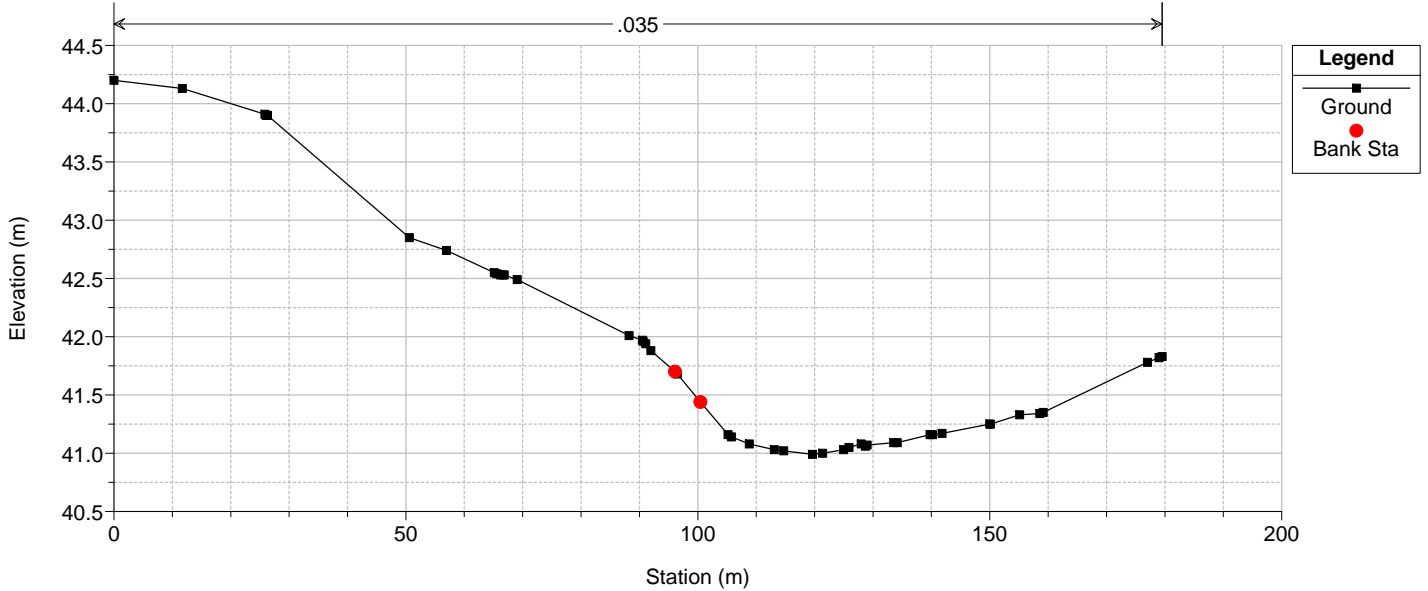
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

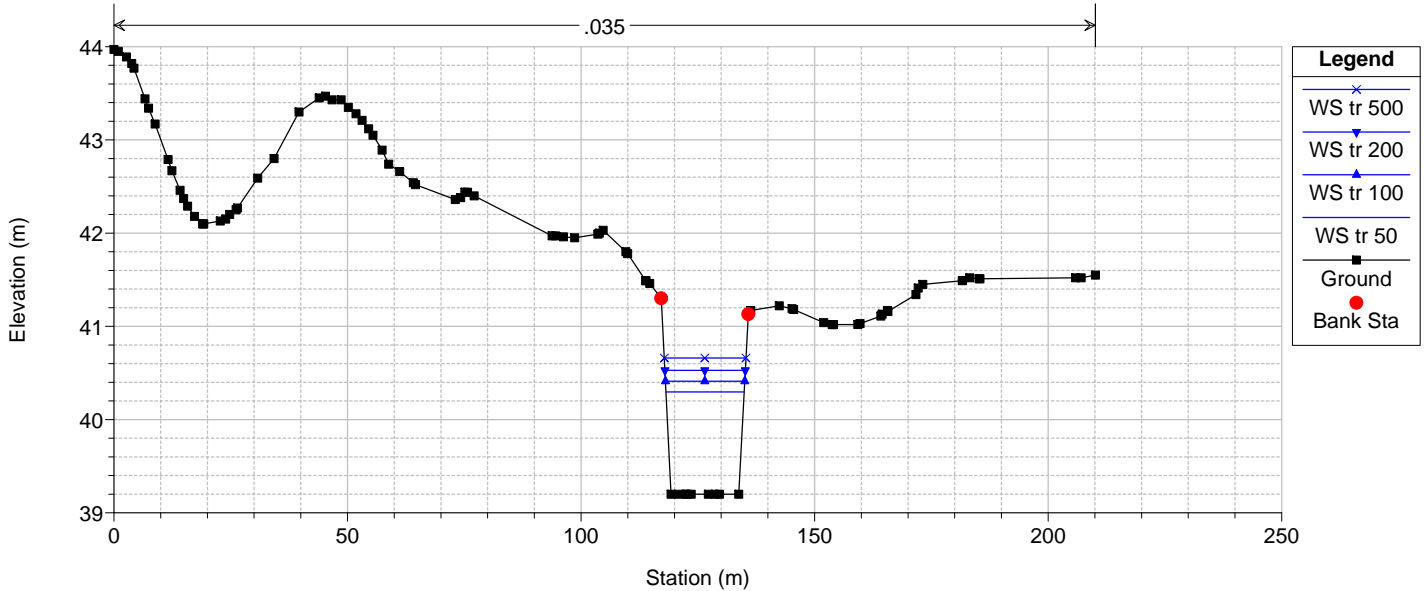
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

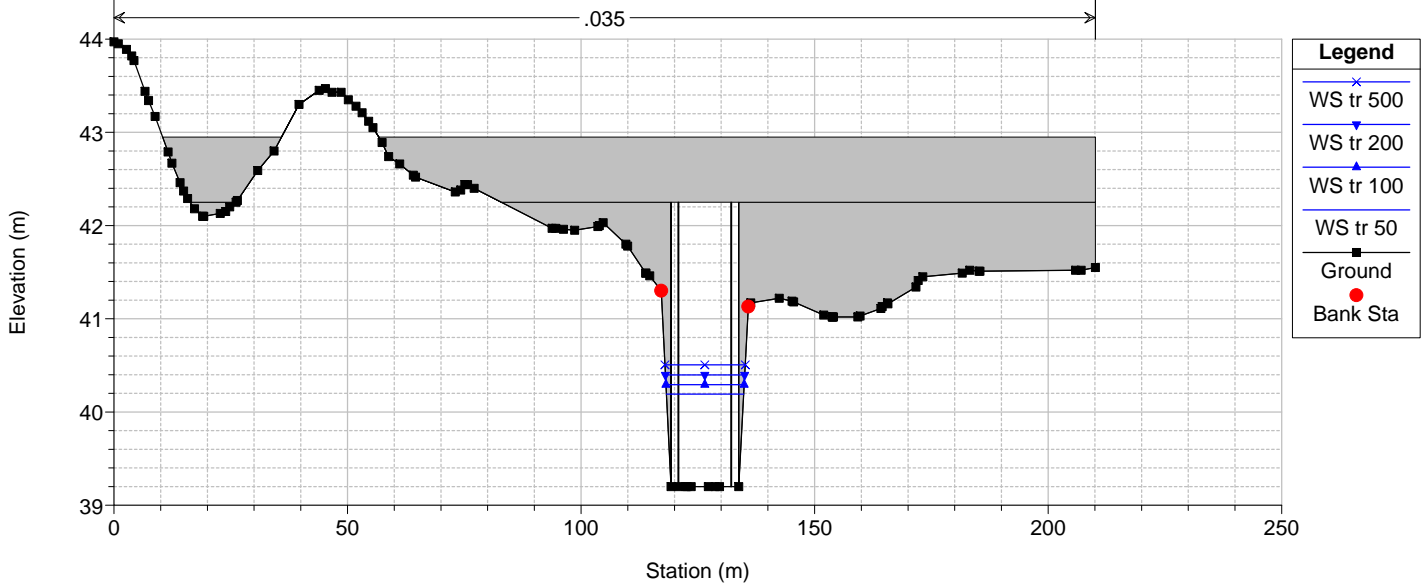
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

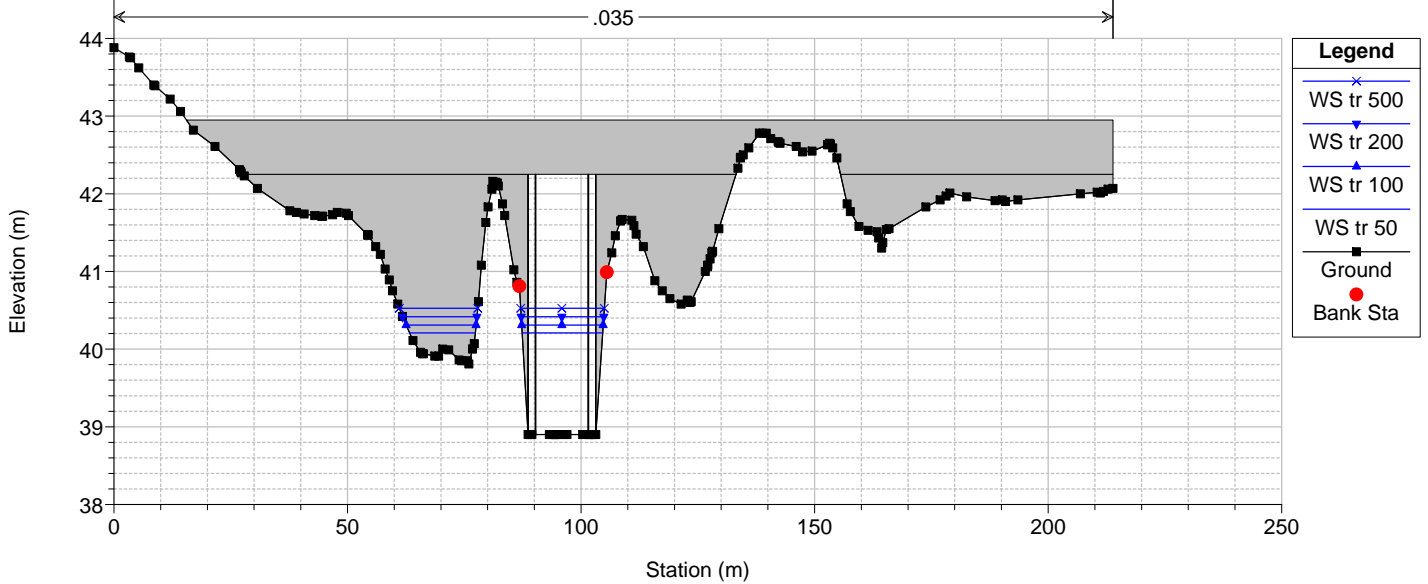
River = 72425 Reach = Asta RS = 483.6925 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

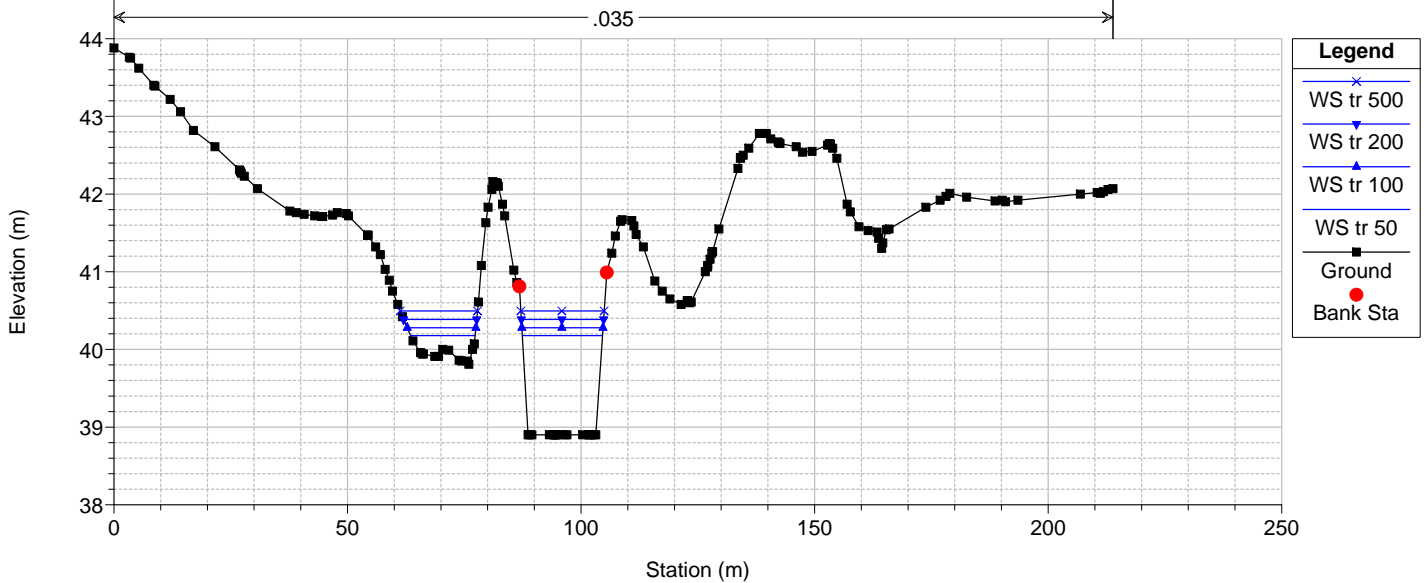
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

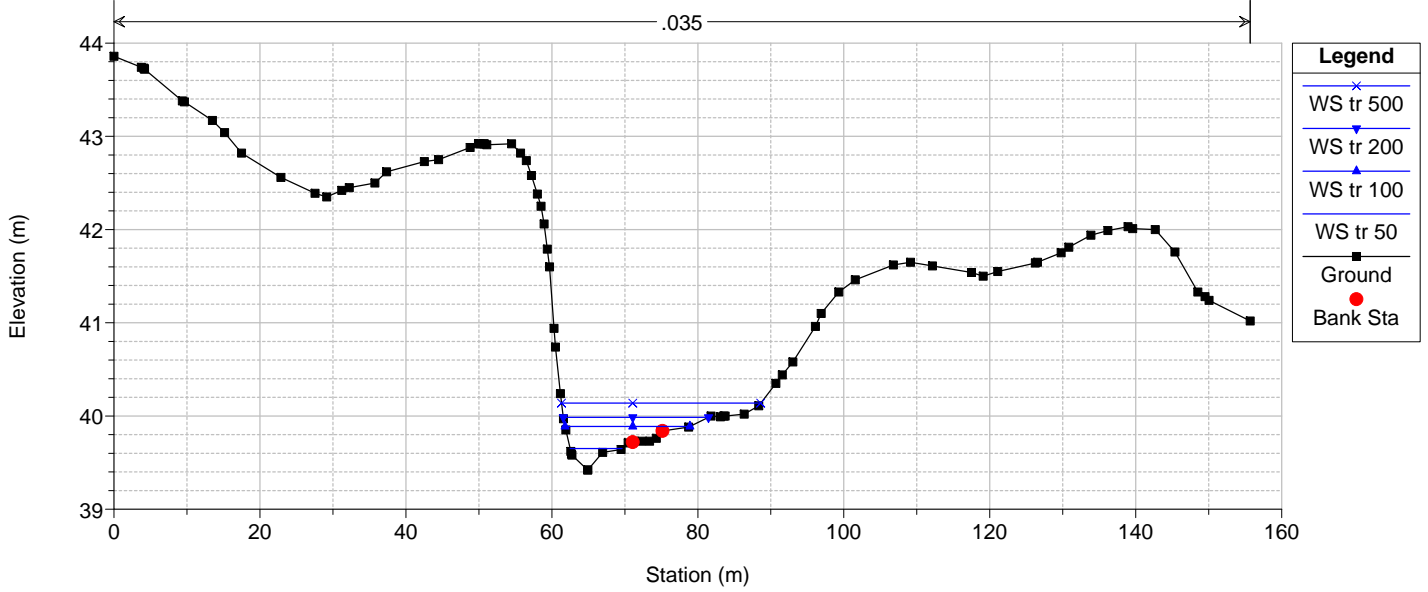
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

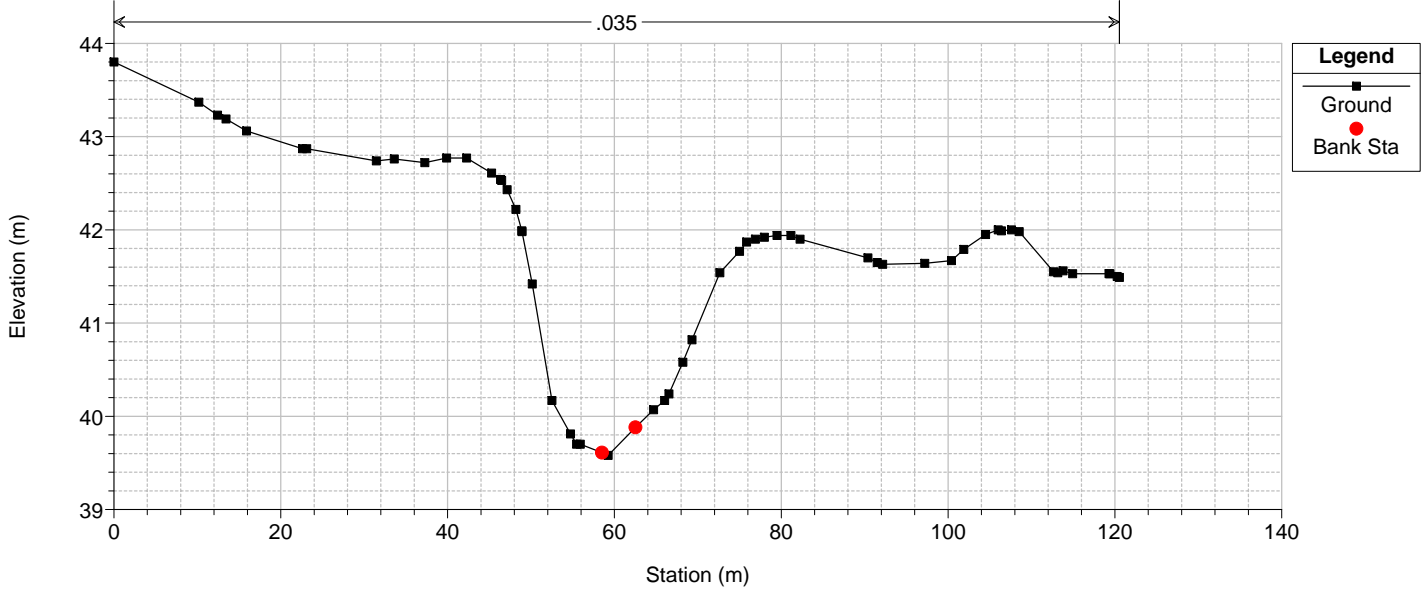
River = 72425 Reach = Asta RS = 431.9053 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

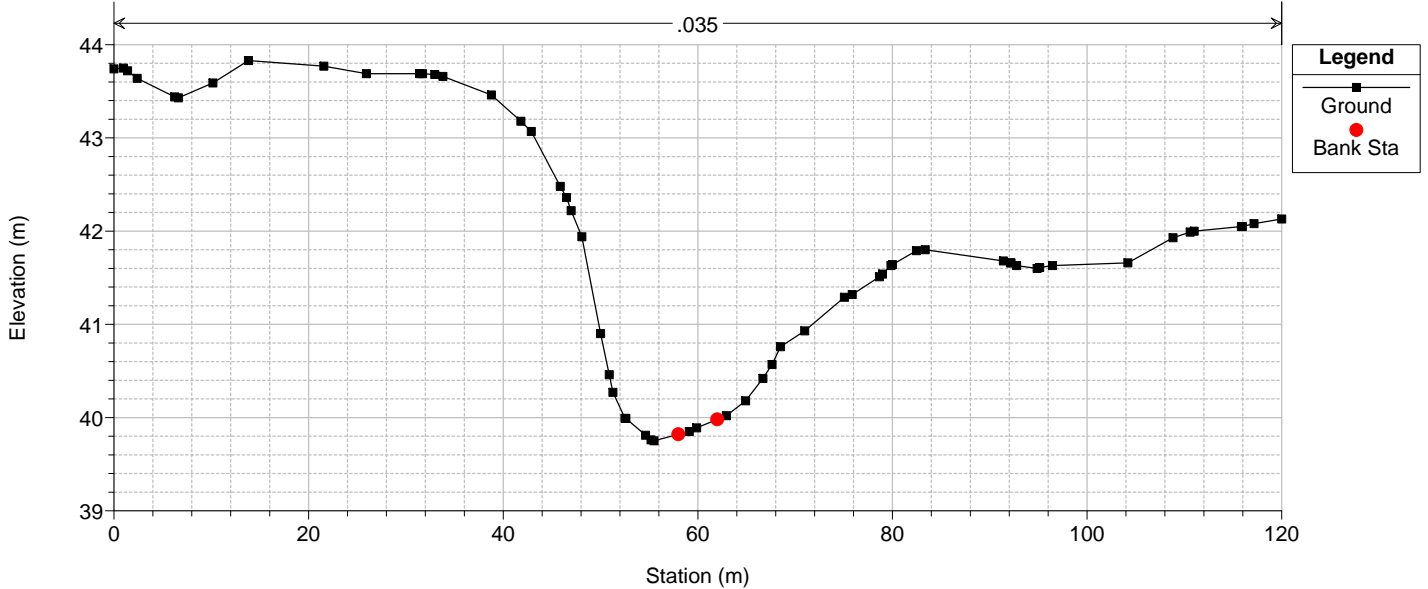
River = 72425 Reach = Asta RS = 398.3658 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

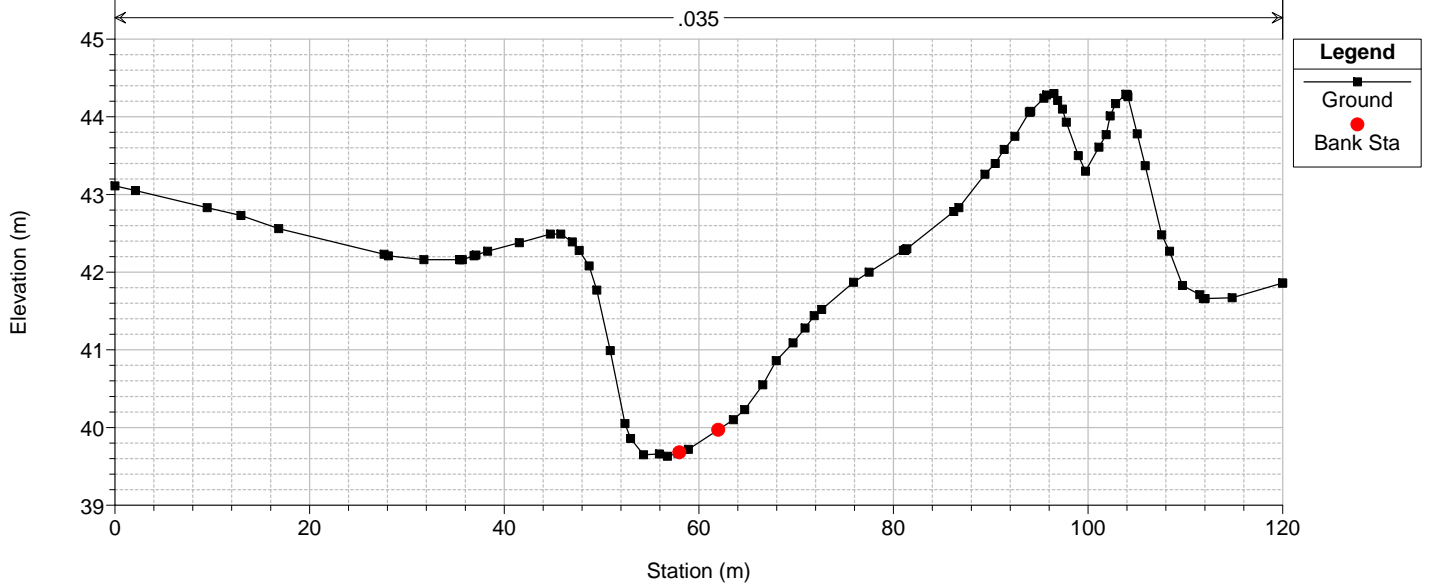
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calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

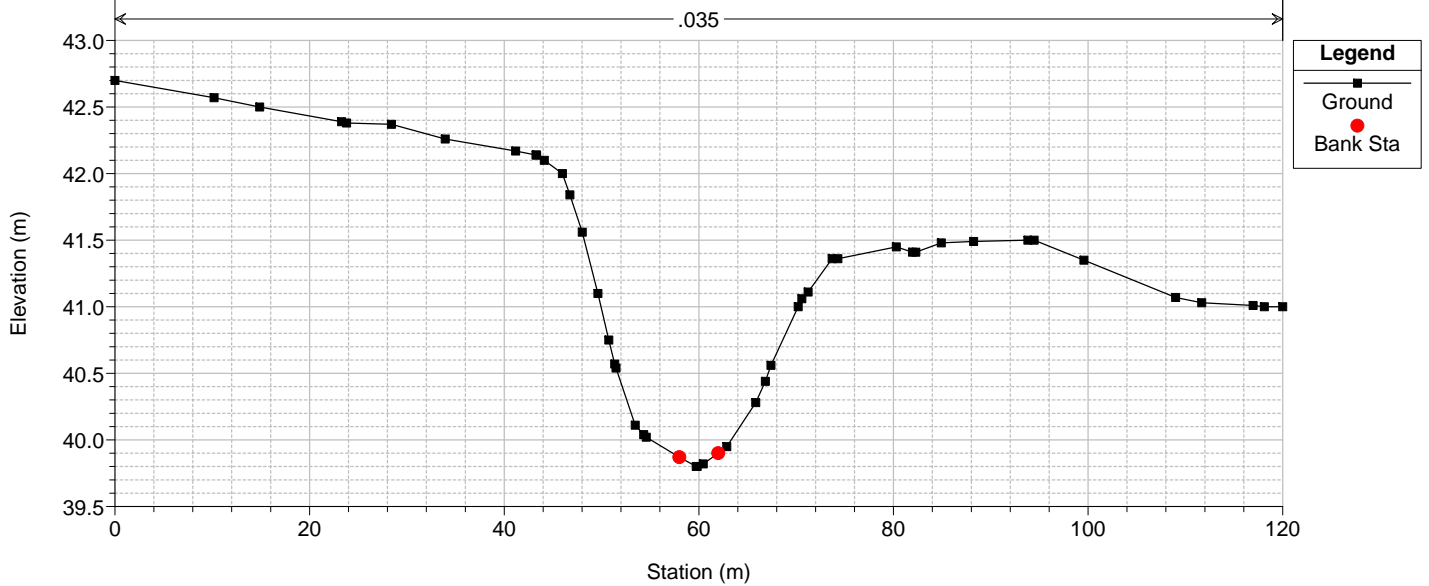
River = 72425 Reach = Asta RS = 300 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

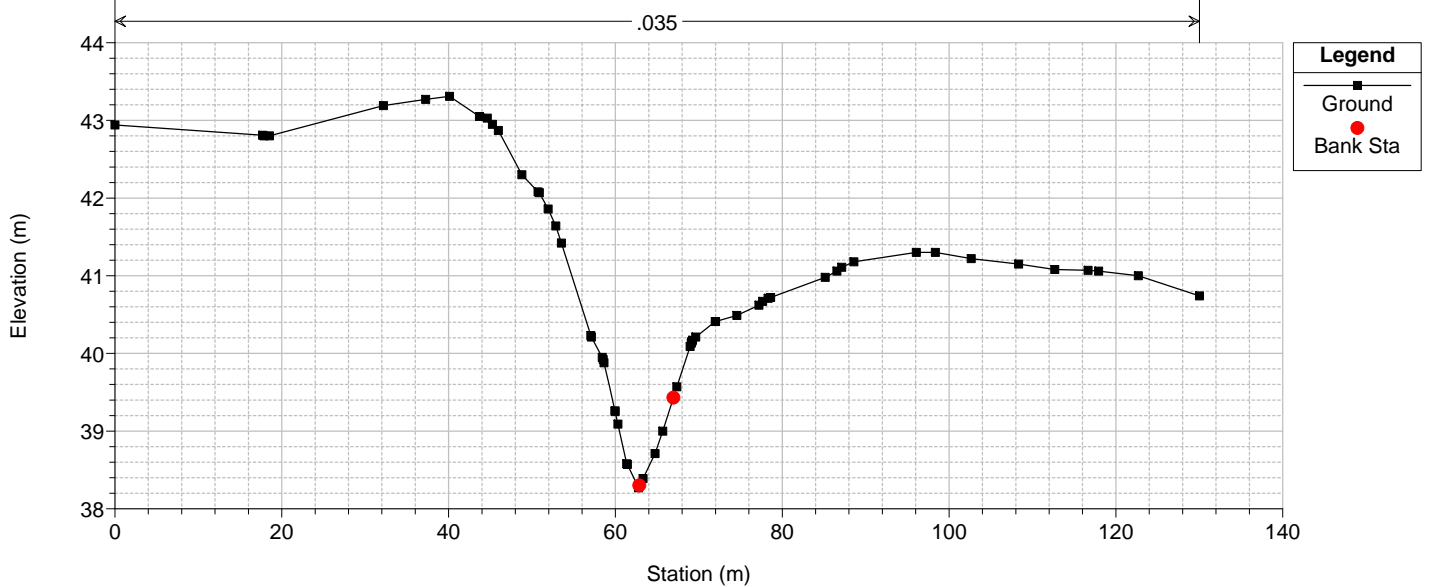
River = 72425 Reach = Asta RS = 250 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

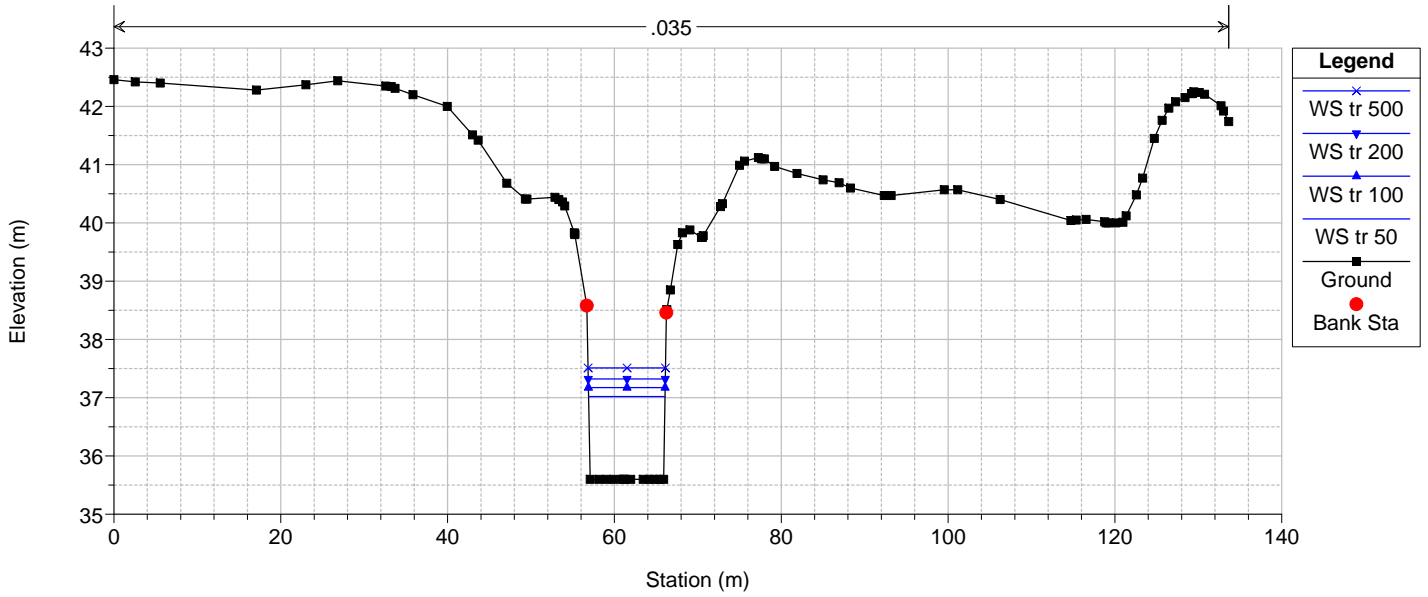
River = 72425 Reach = Asta RS = 215.693 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

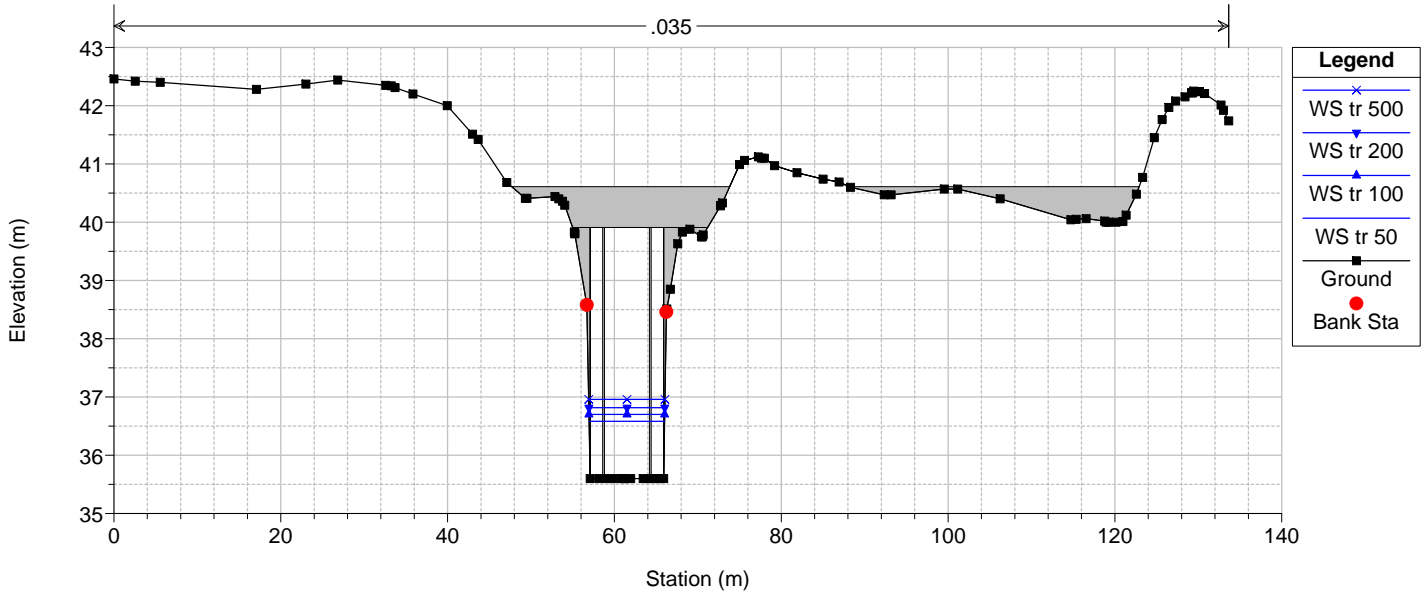
River = 72425 Reach = Asta RS = 185.4014 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

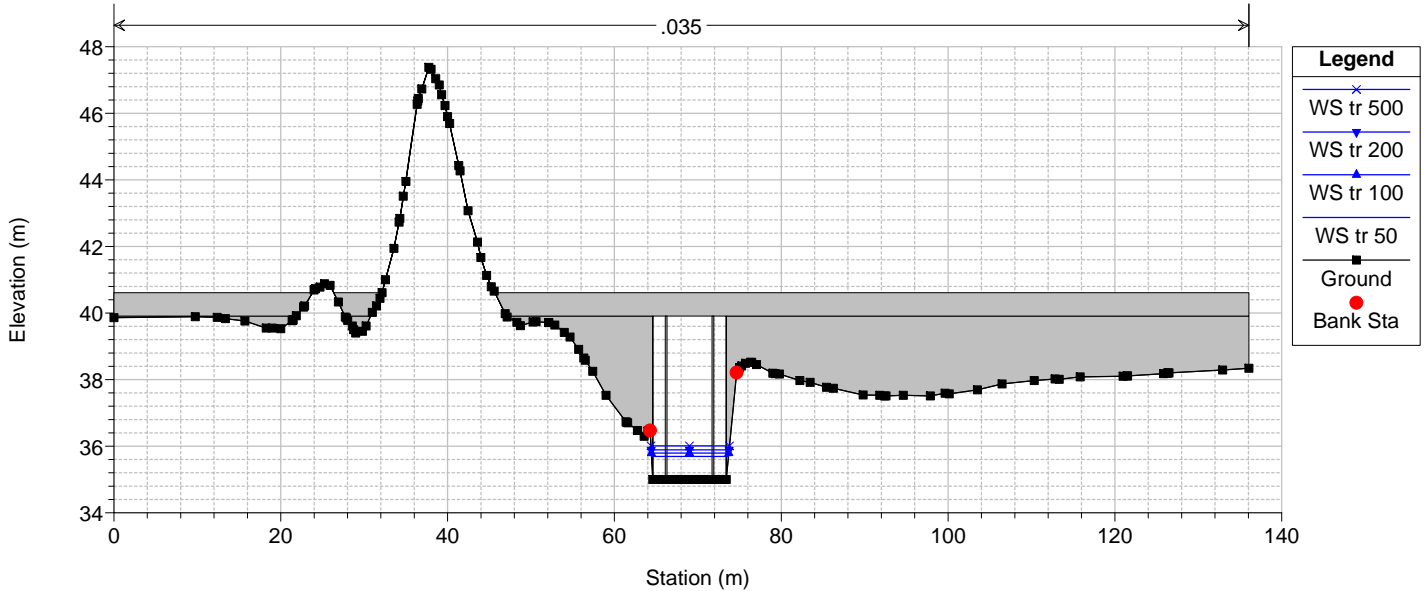
River = 72425 Reach = Asta RS = 166.0982 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

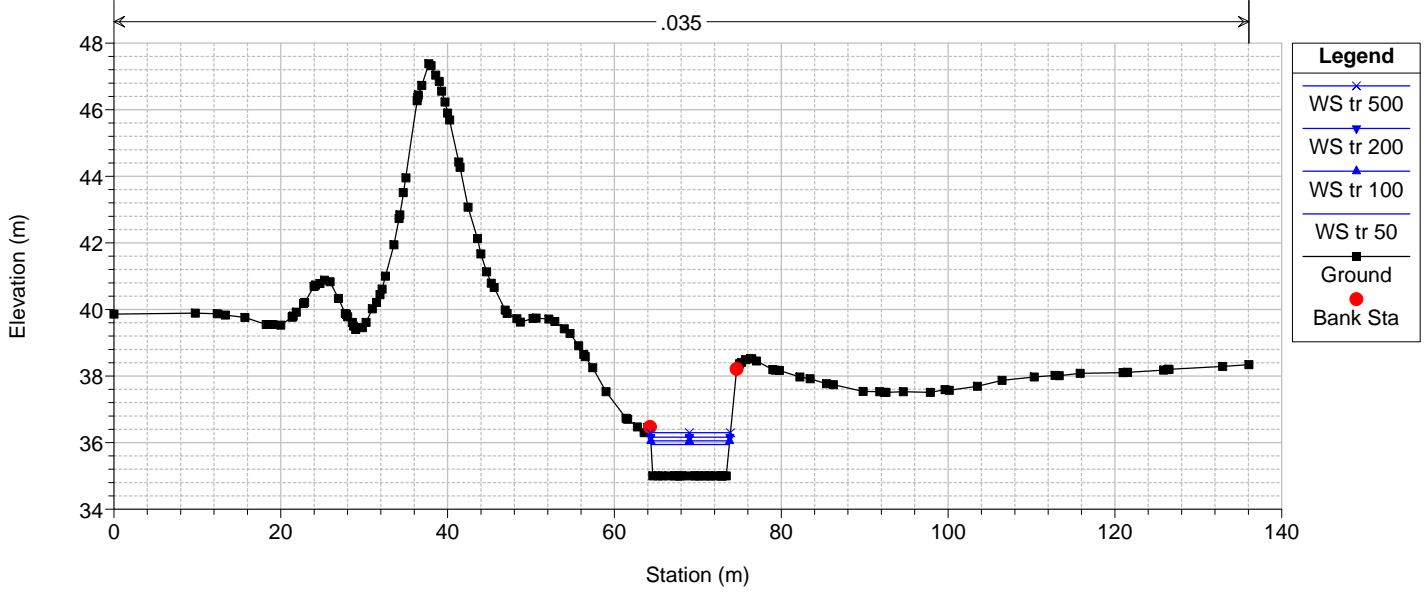
River = 72425 Reach = Asta RS = 166.0982 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

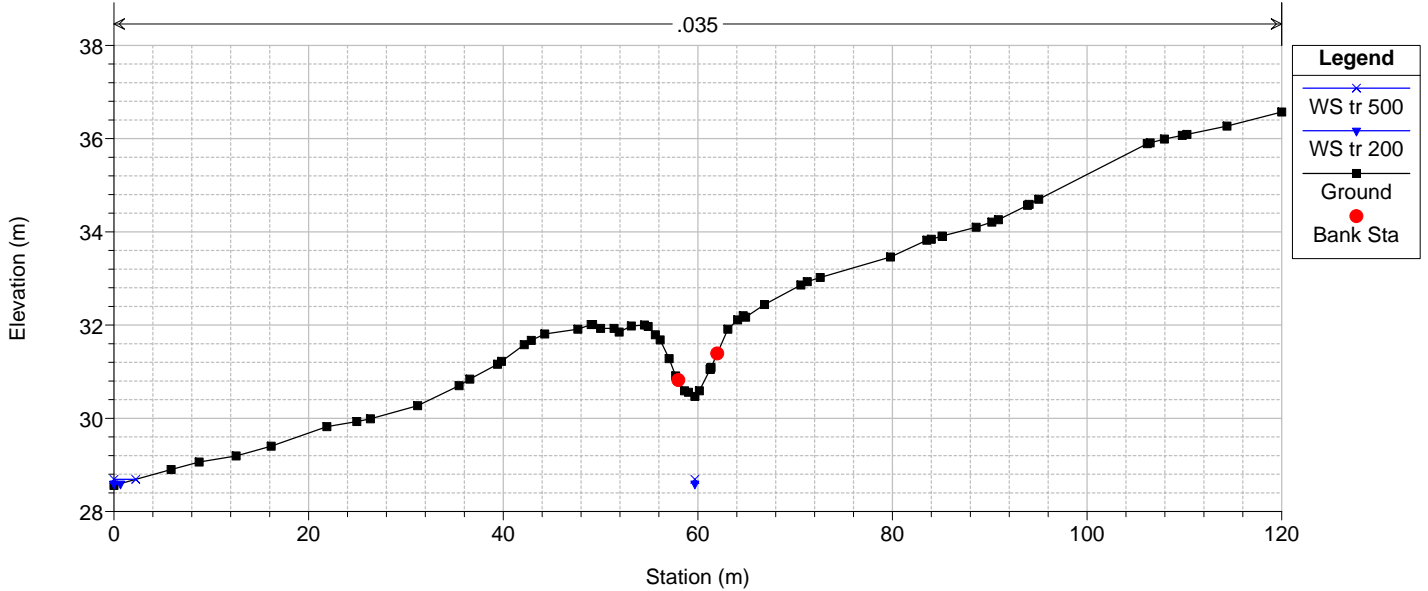
River = 72425 Reach = Asta RS = 152.8832 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

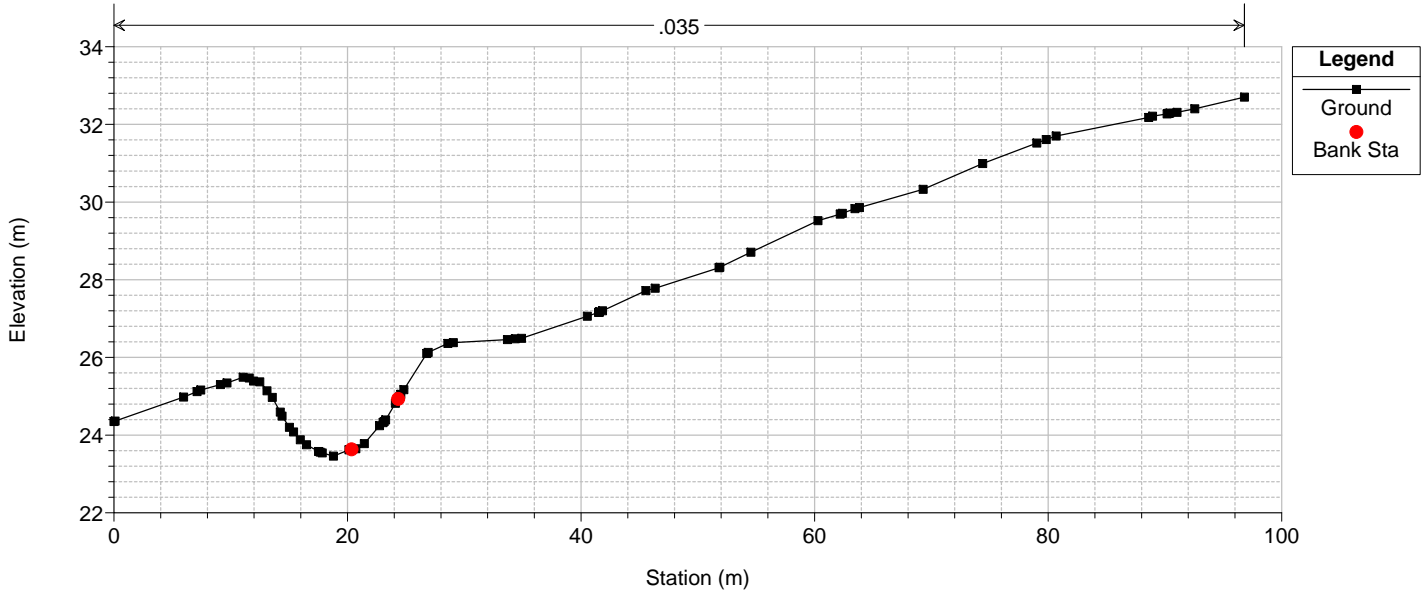
River = 72425 Reach = Asta RS = 100 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 9/25/2017

Geom: calabona19092017 Flow: calabona19092017

River = 72425 Reach = Asta RS = 50.87643 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



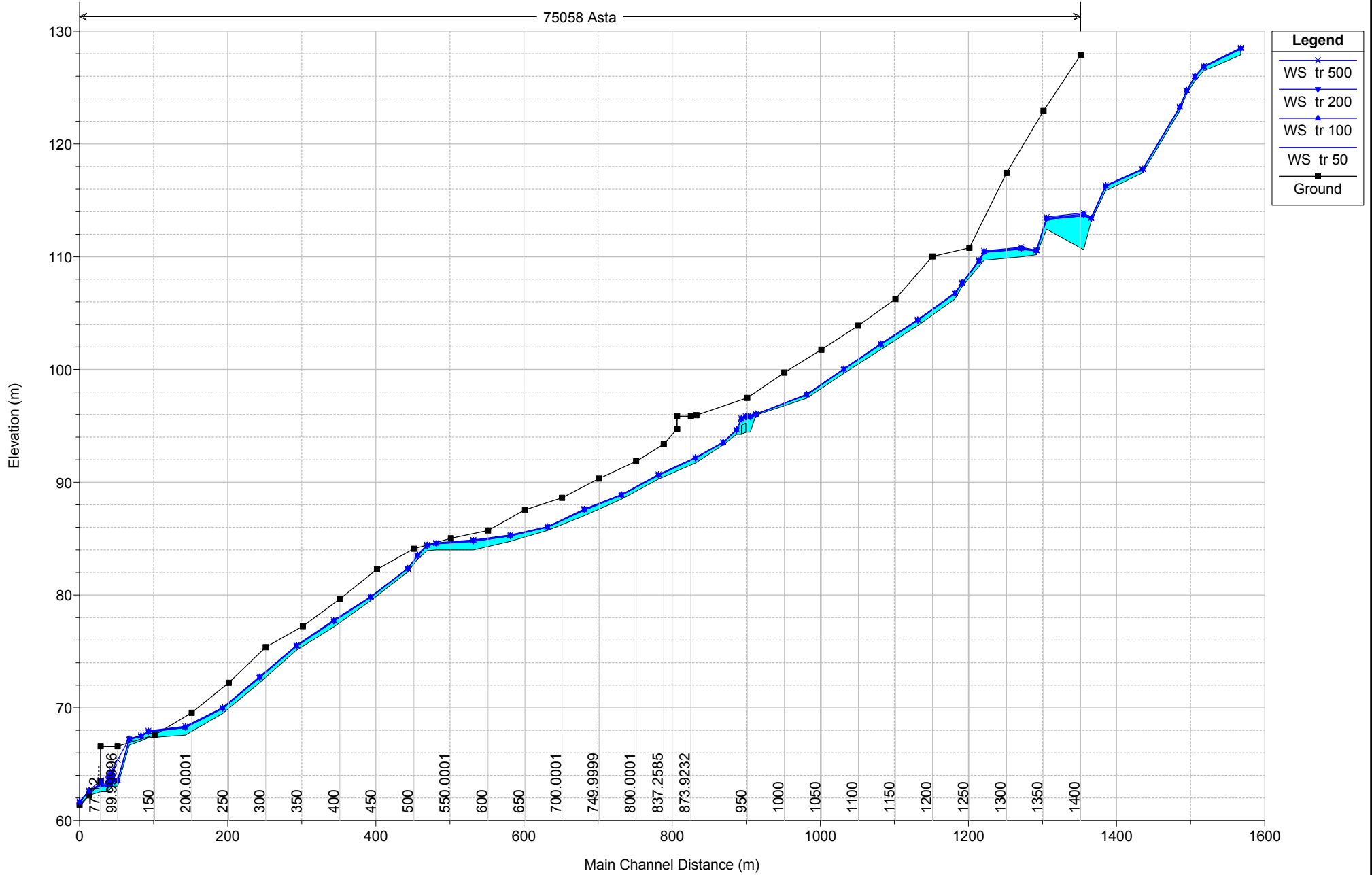
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta	1600	tr 50	13.78	56.56	57.36	57.36	57.73	0.004155	2.77	5.48	7.77	0.99
Asta	1600	tr 100	16.24	56.56	57.45	57.45	57.86	0.004003	2.92	6.18	7.97	0.99
Asta	1600	tr 200	18.72	56.56	57.53	57.53	57.98	0.003864	3.05	6.88	8.16	0.99
Asta	1600	tr 500	22.07	56.56	57.64	57.64	58.14	0.003718	3.21	7.79	8.40	0.99
Asta	1550	tr 50	13.78	55.35	55.76	56.12	57.15	0.041883	5.23	2.64	6.91	2.70
Asta	1550	tr 100	16.24	55.35	55.81	56.21	57.30	0.038639	5.40	3.01	7.03	2.64
Asta	1550	tr 200	18.72	55.35	55.86	56.29	57.43	0.035999	5.55	3.37	7.14	2.58
Asta	1550	tr 500	22.07	55.35	55.93	56.39	57.60	0.033343	5.73	3.85	7.29	2.52
Asta	1500	tr 50	13.78	53.91	54.38	54.68	55.41	0.026164	4.49	3.07	7.04	2.17
Asta	1500	tr 100	16.24	53.91	54.42	54.77	55.60	0.027021	4.81	3.37	7.14	2.23
Asta	1500	tr 200	18.72	53.91	54.47	54.85	55.79	0.027668	5.10	3.67	7.23	2.28
Asta	1500	tr 500	22.07	53.91	54.52	54.95	56.02	0.028236	5.43	4.06	7.35	2.33
Asta	1450	tr 50	13.78	53.26	53.86	54.04	54.46	0.011247	3.42	4.03	7.40	1.47
Asta	1450	tr 100	16.24	53.26	53.92	54.13	54.61	0.011720	3.68	4.42	7.68	1.52
Asta	1450	tr 200	18.72	53.26	53.96	54.21	54.75	0.012178	3.93	4.79	7.93	1.57
Asta	1450	tr 500	22.07	53.26	54.02	54.32	54.93	0.012749	4.23	5.27	8.43	1.62
Asta	1400	tr 50	13.78	52.24	52.61	52.85	53.51	0.035420	4.67	4.24	18.79	2.45
Asta	1400	tr 100	16.24	52.24	52.64	52.90	53.63	0.035949	4.96	4.81	19.75	2.50
Asta	1400	tr 200	18.72	52.24	52.67	52.95	53.74	0.036687	5.22	5.35	20.50	2.55
Asta	1400	tr 500	22.07	52.24	52.70	53.01	53.89	0.037679	5.56	6.03	21.43	2.61
Asta	1350	tr 50	13.78	51.71	52.63	52.48	52.74	0.001298	1.66	13.81	30.02	0.56
Asta	1350	tr 100	16.24	51.71	52.70	52.53	52.81	0.001303	1.74	15.87	31.60	0.56
Asta	1350	tr 200	18.72	51.71	52.75	52.59	52.87	0.001384	1.86	17.45	32.75	0.59
Asta	1350	tr 500	22.07	51.71	52.80	52.65	52.94	0.001516	2.01	19.27	34.03	0.62
Asta	1300	tr 50	13.78	51.67	52.44	52.44	52.63	0.002839	2.18	9.99	28.81	0.80
Asta	1300	tr 100	16.24	51.67	52.48	52.48	52.70	0.003158	2.37	11.07	29.68	0.85
Asta	1300	tr 200	18.72	51.67	52.54	52.54	52.76	0.002947	2.41	13.02	31.68	0.83
Asta	1300	tr 500	22.07	51.67	52.67	52.60	52.85	0.002149	2.26	17.30	35.60	0.73
Asta	1250	tr 50	13.78	51.40	51.96	52.05	52.38	0.008356	2.88	4.78	9.05	1.27
Asta	1250	tr 100	16.24	51.40	52.08	52.13	52.47	0.006206	2.78	5.84	9.26	1.12
Asta	1250	tr 200	18.72	51.40	52.19	52.20	52.56	0.004784	2.70	7.03	11.40	1.00
Asta	1250	tr 500	22.07	51.40	52.31	52.31	52.68	0.004136	2.73	8.45	13.68	0.95
Asta	1200	tr 50	13.78	50.70	51.30	51.45	51.89	0.011074	3.52	4.26	7.44	1.46
Asta	1200	tr 100	16.24	50.70	51.35	51.54	52.03	0.011356	3.77	4.69	7.50	1.50
Asta	1200	tr 200	18.72	50.70	51.41	51.62	52.17	0.011443	3.98	5.13	7.55	1.52
Asta	1200	tr 500	22.07	50.70	51.50	51.72	52.32	0.010703	4.14	5.83	7.64	1.49
Asta	1150	tr 50	13.78	49.81	50.33	50.59	51.17	0.018229	4.10	3.53	7.52	1.81
Asta	1150	tr 100	16.24	49.81	50.39	50.67	51.31	0.017552	4.32	3.98	7.68	1.81
Asta	1150	tr 200	18.72	49.81	50.45	50.75	51.45	0.017109	4.53	4.40	7.82	1.82
Asta	1150	tr 500	22.07	49.81	50.52	50.86	51.63	0.016661	4.79	4.94	7.98	1.82
Asta	1100	tr 50	13.78	49.64	50.41	50.41	50.75	0.004624	2.64	5.58	8.40	1.00
Asta	1100	tr 100	16.24	49.64	50.49	50.49	50.87	0.004454	2.77	6.31	8.60	0.99
Asta	1100	tr 200	18.72	49.64	50.57	50.57	50.98	0.004405	2.90	6.97	8.77	1.00
Asta	1100	tr 500	22.07	49.64	50.67	50.67	51.12	0.004289	3.05	7.85	9.23	1.00
Asta	1057.457	tr 50	13.78	48.79	49.14	49.41	50.14	0.109688	4.44	3.10	9.26	2.45
Asta	1057.457	tr 100	16.24	48.79	49.18	49.49	50.28	0.103569	4.64	3.50	9.34	2.42
Asta	1057.457	tr 200	18.72	48.79	49.22	49.55	50.39	0.097297	4.79	3.91	9.42	2.38
Asta	1057.457	tr 500	22.07	48.79	49.28	49.64	50.55	0.091342	4.99	4.42	9.52	2.34
Asta	1041.848		Bridge									
Asta	1028.632	tr 50	13.78	48.50	49.11	49.11	49.40	0.015494	2.37	5.82	10.26	1.00
Asta	1028.632	tr 100	16.24	48.50	49.18	49.18	49.49	0.014966	2.48	6.55	10.43	1.00
Asta	1028.632	tr 200	18.72	48.50	49.25	49.25	49.59	0.014582	2.59	7.24	10.58	1.00
Asta	1028.632	tr 500	22.07	48.50	49.40	49.33	49.71	0.010968	2.49	8.85	10.93	0.89
Asta	999.9999	tr 50	13.78	48.00	48.74	48.78	49.13	0.005853	2.77	4.98	7.48	1.08
Asta	999.9999	tr 100	16.24	48.00	48.84	48.86	49.25	0.005314	2.83	5.73	7.68	1.05
Asta	999.9999	tr 200	18.72	48.00	48.94	48.95	49.36	0.004820	2.87	6.52	7.88	1.01
Asta	999.9999	tr 500	22.07	48.00	49.04	49.05	49.50	0.004698	3.00	7.35	8.09	1.01
Asta	950.0001	tr 50	13.78	47.50	48.11	48.28	48.71	0.011378	3.44	4.00	7.21	1.48
Asta	950.0001	tr 100	16.24	47.50	48.17	48.36	48.84	0.011363	3.64	4.46	7.34	1.49
Asta	950.0001	tr 200	18.72	47.50	48.23	48.45	48.97	0.011366	3.82	4.90	7.46	1.51
Asta	950.0001	tr 500	22.07	47.50	48.31	48.55	49.12	0.010956	3.99	5.53	7.62	1.50
Asta	899.9999	tr 50	13.78	47.00	47.64	47.78	48.17	0.009358	3.23	4.27	7.28	1.35
Asta	899.9999	tr 100	16.24	47.00	47.71	47.86	48.31	0.009465	3.43	4.73	7.41	1.37
Asta	899.9999	tr 200	18.72	47.00	47.77	47.95	48.43	0.009496	3.60	5.20	7.54	1.38
Asta	899.9999	tr 500	22.07	47.00	47.84	48.06	48.59	0.009595	3.83	5.77	8.15	1.41
Asta	874.4871	tr 50	13.78	46.80	47.82	47.43	47.93	0.003212	1.44	9.58	10.24	0.47

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	874.4871	tr 100	16.24	46.80	47.94	47.50	48.05	0.003125	1.51	10.79	10.44	0.47
Asta	874.4871	tr 200	18.72	46.80	48.05	47.57	48.18	0.003046	1.56	11.97	10.63	0.47
Asta	874.4871	tr 500	22.07	46.80	48.20	47.66	48.33	0.002910	1.63	13.53	11.26	0.47
Asta	858.4899	Bridge										
Asta	825.8108	tr 50	23.86	46.50	47.40	47.40	47.82	0.010702	2.85	8.36	10.05	1.00
Asta	825.8108	tr 100	28.21	46.50	47.50	47.50	47.96	0.010389	3.00	9.40	10.23	1.00
Asta	825.8108	tr 200	32.61	46.50	47.60	47.60	48.10	0.010149	3.14	10.40	10.40	1.00
Asta	825.8108	tr 500	38.49	46.50	47.73	47.73	48.28	0.009770	3.28	11.72	10.61	1.00
Asta	792.9191	tr 50	23.86	45.00	45.77	46.22	47.23	0.021514	5.34	4.47	6.55	2.06
Asta	792.9191	tr 100	28.21	45.00	45.88	46.35	47.40	0.019577	5.46	5.16	6.76	1.99
Asta	792.9191	tr 200	32.61	45.00	45.98	46.47	47.56	0.018056	5.57	5.86	6.96	1.94
Asta	792.9191	tr 500	38.49	45.00	46.11	46.62	47.76	0.016537	5.69	6.77	7.22	1.87
Asta	750	tr 50	23.86	43.50	44.19	44.72	46.07	0.031708	6.08	3.92	6.38	2.48
Asta	750	tr 100	28.21	43.50	44.27	44.85	46.31	0.030307	6.33	4.46	6.54	2.45
Asta	750	tr 200	32.61	43.50	44.35	44.97	46.53	0.028996	6.54	4.99	6.70	2.42
Asta	750	tr 500	38.49	43.50	44.46	45.12	46.79	0.027453	6.77	5.69	6.91	2.38
Asta	699.9999	tr 50	23.86	42.00	42.70	43.22	44.51	0.029893	5.96	4.00	6.40	2.41
Asta	699.9999	tr 100	28.21	42.00	42.77	43.35	44.80	0.030019	6.31	4.47	6.55	2.44
Asta	699.9999	tr 200	32.61	42.00	42.85	43.47	45.06	0.029686	6.59	4.95	6.69	2.45
Asta	699.9999	tr 500	38.49	42.00	42.94	43.62	45.37	0.029122	6.91	5.57	6.88	2.45
Asta	667.4977	tr 50	23.86	41.50	42.31	42.72	43.61	0.018253	5.05	4.72	6.62	1.91
Asta	667.4977	tr 100	28.21	41.50	42.39	42.85	43.88	0.019004	5.41	5.22	6.77	1.97
Asta	667.4977	tr 200	32.61	41.50	42.46	42.97	44.12	0.019510	5.71	5.71	6.92	2.01
Asta	667.4977	tr 500	38.49	41.50	42.55	43.12	44.43	0.019986	6.07	6.34	7.10	2.05
Asta	629.2197	tr 50	23.86	39.86	40.20	40.60	41.95	0.186094	5.85	4.08	12.00	3.21
Asta	629.2197	tr 100	28.21	39.86	40.25	40.69	42.18	0.178294	6.16	4.58	12.04	3.19
Asta	629.2197	tr 200	32.61	39.86	40.29	40.77	42.40	0.172760	6.45	5.06	12.08	3.18
Asta	629.2197	tr 500	38.49	39.86	40.34	40.88	42.69	0.167176	6.80	5.66	12.12	3.18
Asta	611.8381	Bridge										
Asta	600.9209	tr 50	23.86	39.50	40.92	40.28	41.02	0.001862	1.37	17.45	13.85	0.39
Asta	600.9209	tr 100	28.21	39.50	41.07	40.36	41.18	0.001848	1.44	19.58	14.19	0.39
Asta	600.9209	tr 200	32.61	39.50	41.22	40.45	41.33	0.001837	1.51	21.62	14.51	0.39
Asta	600.9209	tr 500	38.49	39.50	41.39	40.56	41.52	0.001828	1.59	24.24	14.90	0.40
Asta	552.3627	tr 50	25.66	39.40	40.52	40.41	40.88	0.003193	2.65	9.69	9.75	0.85
Asta	552.3627	tr 100	30.43	39.40	40.64	40.53	41.04	0.003199	2.80	10.86	9.98	0.86
Asta	552.3627	tr 200	35.25	39.40	40.75	40.64	41.19	0.003211	2.94	11.98	10.21	0.87
Asta	552.3627	tr 500	41.69	39.40	40.90	40.77	41.38	0.003197	3.10	13.46	10.49	0.87
Asta	523.929	tr 50	25.66	39.30	40.31	40.31	40.76	0.004545	2.98	8.61	9.52	1.00
Asta	523.929	tr 100	30.43	39.30	40.43	40.43	40.93	0.004441	3.13	9.73	9.75	1.00
Asta	523.929	tr 200	35.25	39.30	40.54	40.54	41.08	0.004341	3.26	10.82	9.98	1.00
Asta	523.929	tr 500	41.69	39.30	40.67	40.67	41.27	0.004281	3.42	12.18	10.25	1.00
Asta	496.7194	tr 50	25.66	39.20	40.30	39.87	40.41	0.002853	1.50	17.14	16.75	0.47
Asta	496.7194	tr 100	30.43	39.20	40.41	39.95	40.54	0.002881	1.60	19.07	16.99	0.48
Asta	496.7194	tr 200	35.25	39.20	40.53	40.03	40.67	0.002841	1.67	21.07	17.23	0.48
Asta	496.7194	tr 500	41.69	39.20	40.66	40.12	40.82	0.002896	1.78	23.36	17.50	0.49
Asta	483.6925	Bridge										
Asta	459.7868	tr 50	25.66	38.90	40.18	39.57	40.26	0.001705	1.27	20.26	17.18	0.37
Asta	459.7868	tr 100	30.43	38.90	40.28	39.65	40.38	0.001866	1.38	21.98	17.39	0.39
Asta	459.7868	tr 200	35.25	38.90	40.39	39.73	40.50	0.001950	1.48	23.85	17.62	0.41
Asta	459.7868	tr 500	41.69	38.90	40.49	39.83	40.63	0.002149	1.62	25.79	17.84	0.43
Asta	431.9053	tr 50	25.66	38.50	39.65	39.65	40.15	0.004550	3.12	8.23	8.30	1.00
Asta	431.9053	tr 100	30.43	38.50	39.89	39.89	40.28	0.003198	2.78	11.06	17.31	0.98
Asta	431.9053	tr 200	35.25	38.50	39.99	39.99	40.40	0.003241	2.85	12.89	19.95	0.96
Asta	431.9053	tr 500	41.69	38.50	40.14	40.14	40.53	0.002916	2.82	16.74	27.29	0.88
Asta	398.3658	tr 50	25.66	38.00	38.84	39.15	39.85	0.013096	4.46	5.76	7.68	1.64
Asta	398.3658	tr 100	30.43	38.00	38.96	39.28	40.02	0.012012	4.58	6.65	7.91	1.59
Asta	398.3658	tr 200	35.25	38.00	39.09	39.40	40.15	0.010386	4.57	7.71	8.18	1.50
Asta	398.3658	tr 500	41.69	38.00	39.27	39.55	40.31	0.008666	4.53	9.20	8.53	1.39
Asta	350	tr 50	25.66	37.50	38.42	38.65	39.25	0.009850	4.05	6.34	7.83	1.44
Asta	350	tr 100	30.43	37.50	38.51	38.78	39.46	0.010108	4.32	7.04	8.01	1.47
Asta	350	tr 200	35.25	37.50	38.59	38.90	39.65	0.010379	4.57	7.71	8.18	1.50
Asta	350	tr 500	41.69	37.50	38.72	39.05	39.86	0.009764	4.72	8.83	8.45	1.47
Asta	300	tr 50	25.66	37.00	37.91	38.15	38.75	0.009953	4.06	6.31	7.83	1.44
Asta	300	tr 100	30.43	37.00	38.01	38.28	38.95	0.010025	4.31	7.06	8.02	1.46
Asta	300	tr 200	35.25	37.00	38.10	38.40	39.14	0.009995	4.51	7.81	8.20	1.48

HEC-RAS Plan: 01 River: 72425 Reach: Asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	300	tr 500	41.69	37.00	38.22	38.55	39.37	0.009934	4.75	8.78	8.43	1.49
Asta	250	tr 50	25.66	36.50	37.41	37.65	38.26	0.010020	4.07	6.30	7.82	1.45
Asta	250	tr 100	30.43	36.50	37.51	37.78	38.45	0.010025	4.31	7.06	8.02	1.46
Asta	250	tr 200	35.25	36.50	37.60	37.90	38.64	0.009995	4.51	7.81	8.20	1.48
Asta	250	tr 500	41.69	36.50	37.72	38.05	38.87	0.009952	4.75	8.77	8.43	1.49
Asta	215.693	tr 50	25.66	36.00	36.84	37.15	37.85	0.013022	4.45	5.77	7.69	1.64
Asta	215.693	tr 100	30.43	36.00	36.94	37.28	38.05	0.012758	4.67	6.51	7.88	1.64
Asta	215.693	tr 200	35.25	36.00	37.03	37.40	38.24	0.012535	4.87	7.24	8.06	1.64
Asta	215.693	tr 500	41.69	36.00	37.14	37.55	38.47	0.012292	5.11	8.16	8.29	1.64
Asta	185.4014	tr 50	25.66	35.60	37.02	36.55	37.23	0.004420	2.01	12.74	9.15	0.55
Asta	185.4014	tr 100	30.43	35.60	37.17	36.66	37.41	0.004525	2.15	14.16	9.19	0.55
Asta	185.4014	tr 200	35.25	35.60	37.32	36.77	37.59	0.004613	2.27	15.53	9.23	0.56
Asta	185.4014	tr 500	41.69	35.60	37.51	36.91	37.81	0.004713	2.41	17.27	9.28	0.56
Asta	166.0982		Bridge									
Asta	152.8832	tr 50	25.66	35.00	35.94	35.94	36.40	0.014858	2.99	8.58	9.38	1.00
Asta	152.8832	tr 100	30.43	35.00	36.05	36.05	36.56	0.014671	3.16	9.62	9.44	1.00
Asta	152.8832	tr 200	35.25	35.00	36.16	36.16	36.72	0.014495	3.32	10.63	9.51	1.00
Asta	152.8832	tr 500	41.69	35.00	36.30	36.30	36.92	0.014318	3.50	11.92	9.59	1.00
Asta	100	tr 50	25.66	28.00	28.46	29.30	34.06	0.150774	10.49	2.45	5.71	5.12
Asta	100	tr 100	30.43	28.00	28.53	29.44	34.30	0.130942	10.64	2.86	5.82	4.85
Asta	100	tr 200	35.25	28.00	28.60	29.58	34.51	0.116327	10.77	3.27	5.93	4.63
Asta	100	tr 500	41.69	28.00	28.69	29.75	34.77	0.102062	10.92	3.82	6.07	4.40
Asta	50.87643	tr 50	25.66	20.00	21.29	21.29	21.85	0.004737	3.30	7.78	7.01	1.00
Asta	50.87643	tr 100	30.43	20.00	20.50	21.44	27.10	0.161110	11.38	2.67	5.77	5.34
Asta	50.87643	tr 200	35.25	20.00	20.55	21.58	27.76	0.157793	11.90	2.96	5.85	5.34
Asta	50.87643	tr 500	41.69	20.00	20.61	21.74	28.53	0.152186	12.46	3.34	5.95	5.31

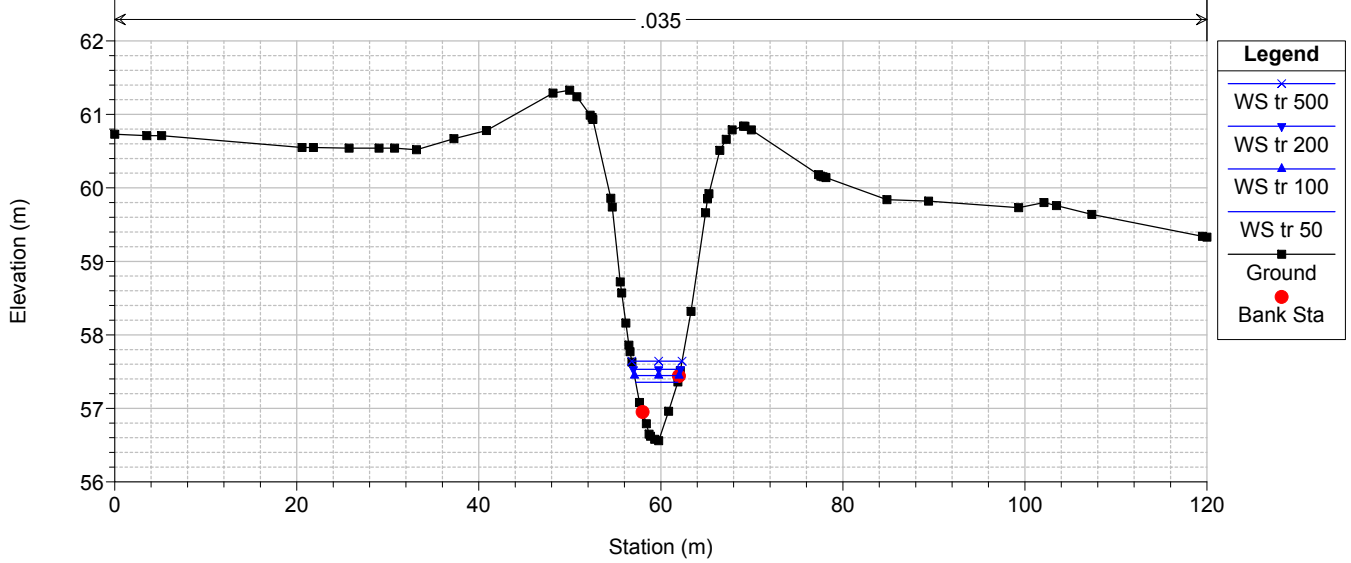
75058 Asta



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

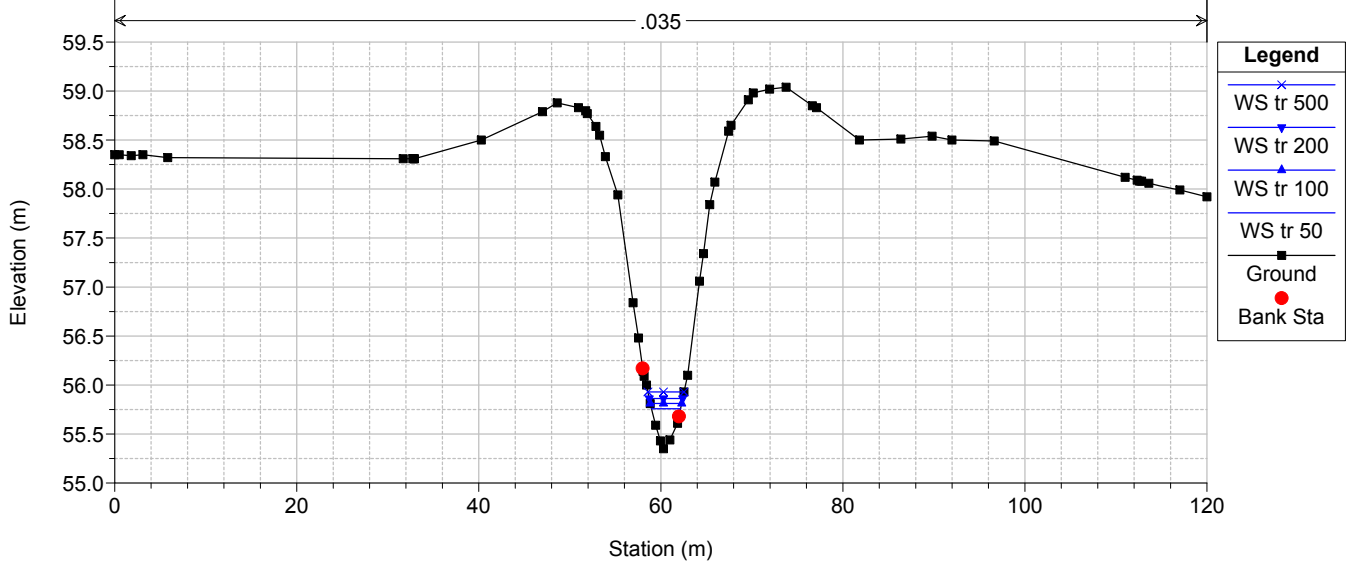
River = 72425 Reach = Asta RS = 1600 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

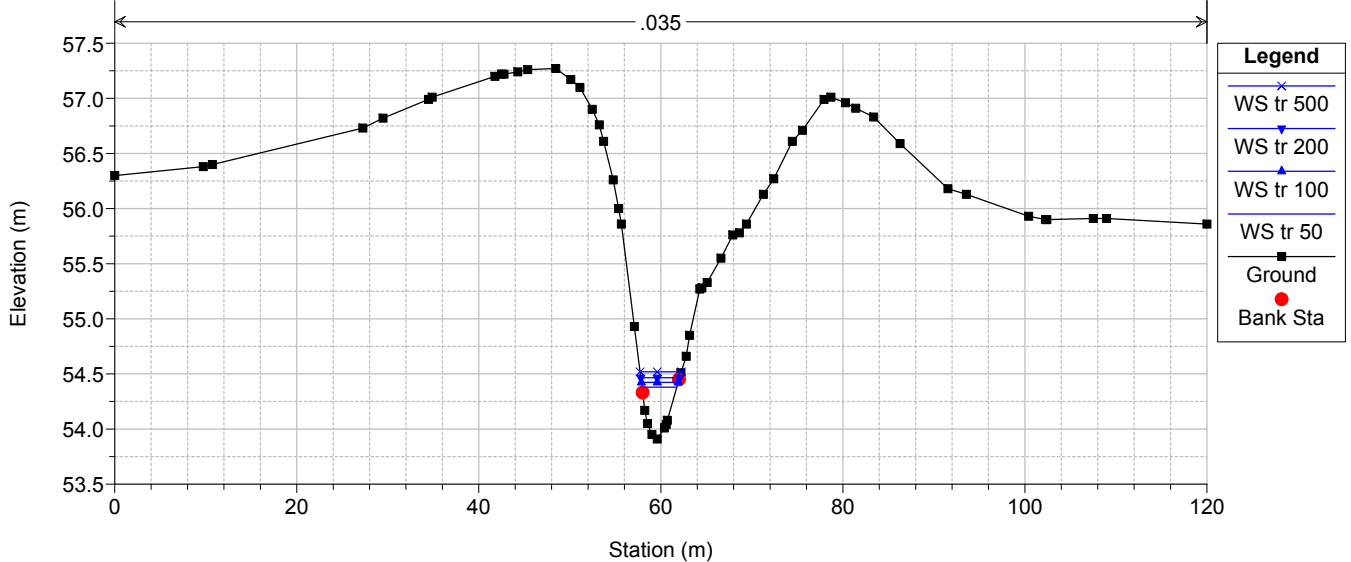
River = 72425 Reach = Asta RS = 1550 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

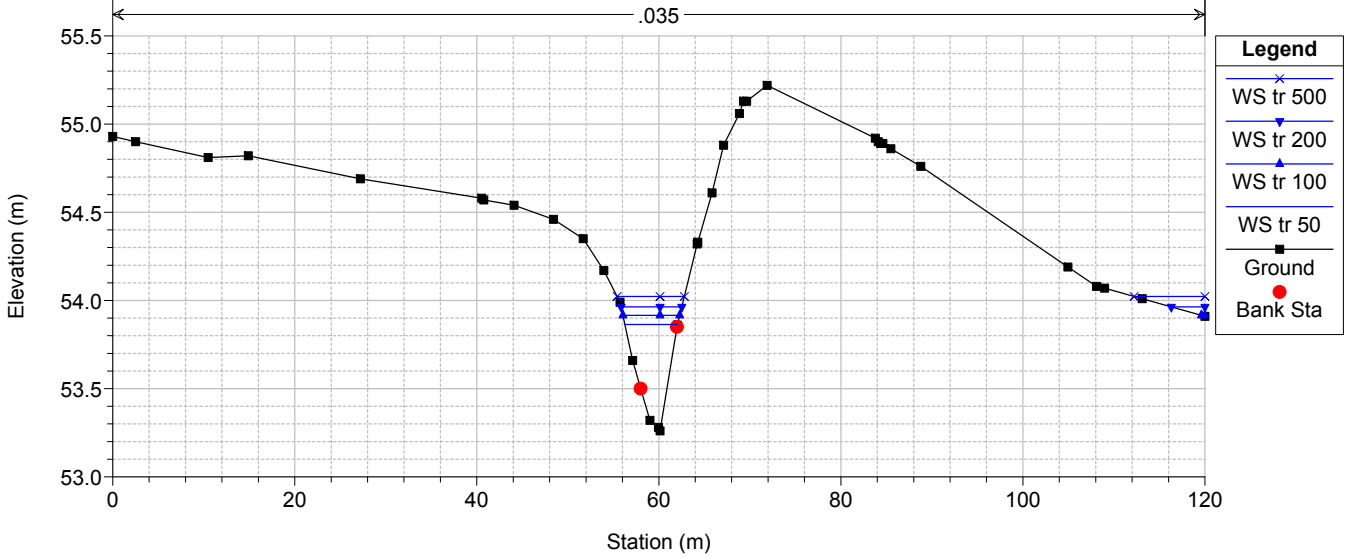
River = 72425 Reach = Asta RS = 1500 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

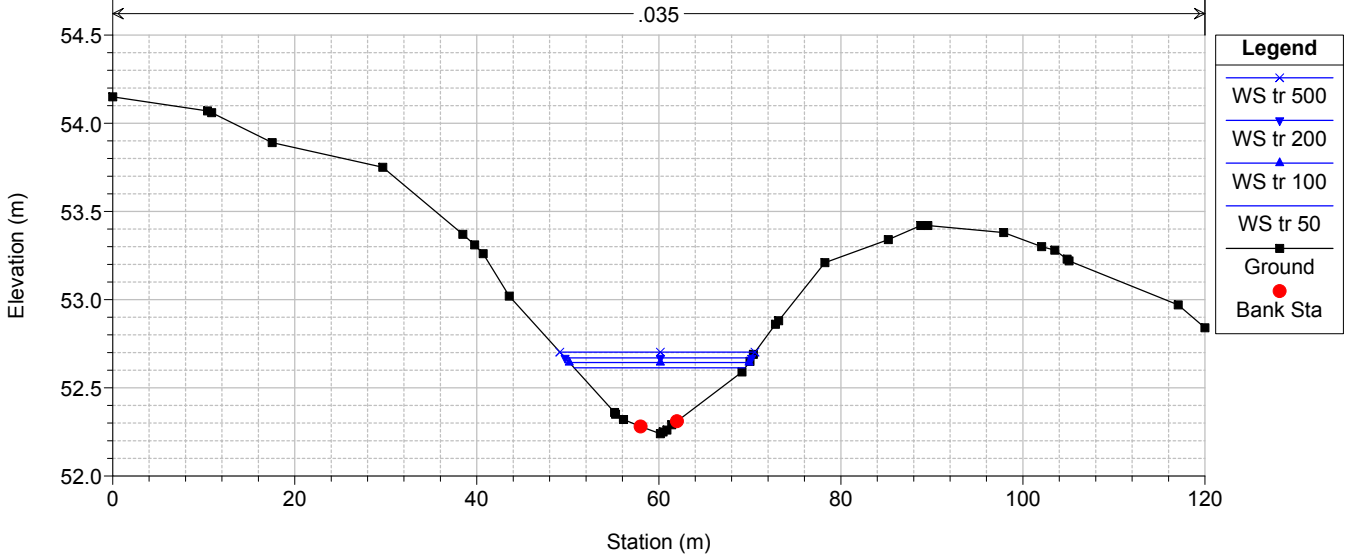
River = 72425 Reach = Asta RS = 1450 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

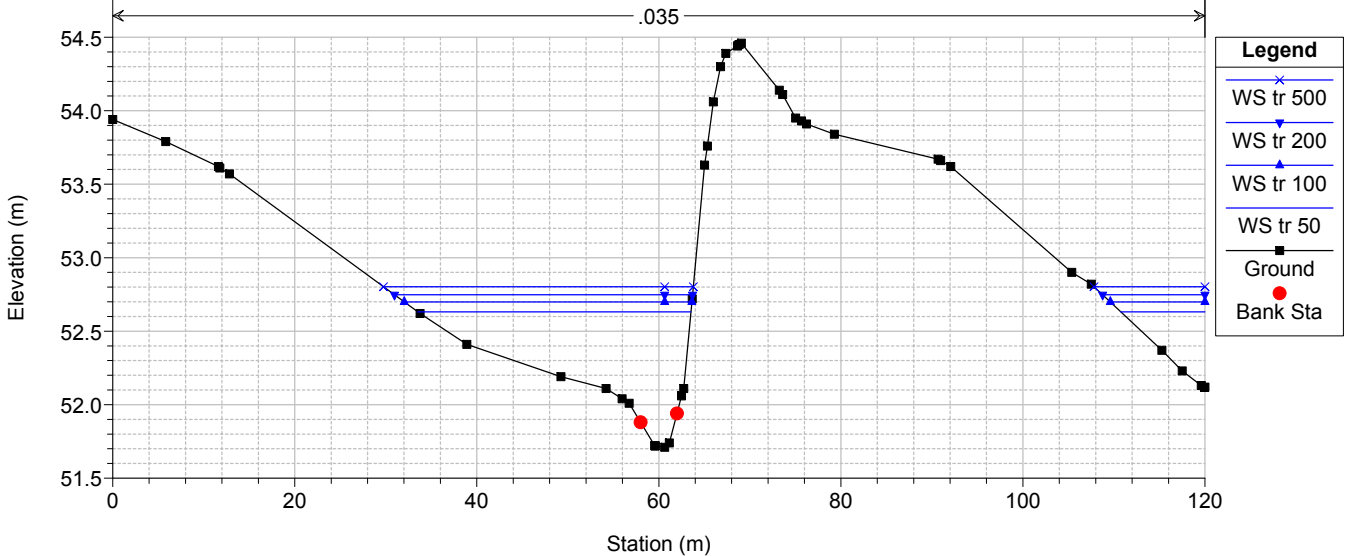
River = 72425 Reach = Asta RS = 1400 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

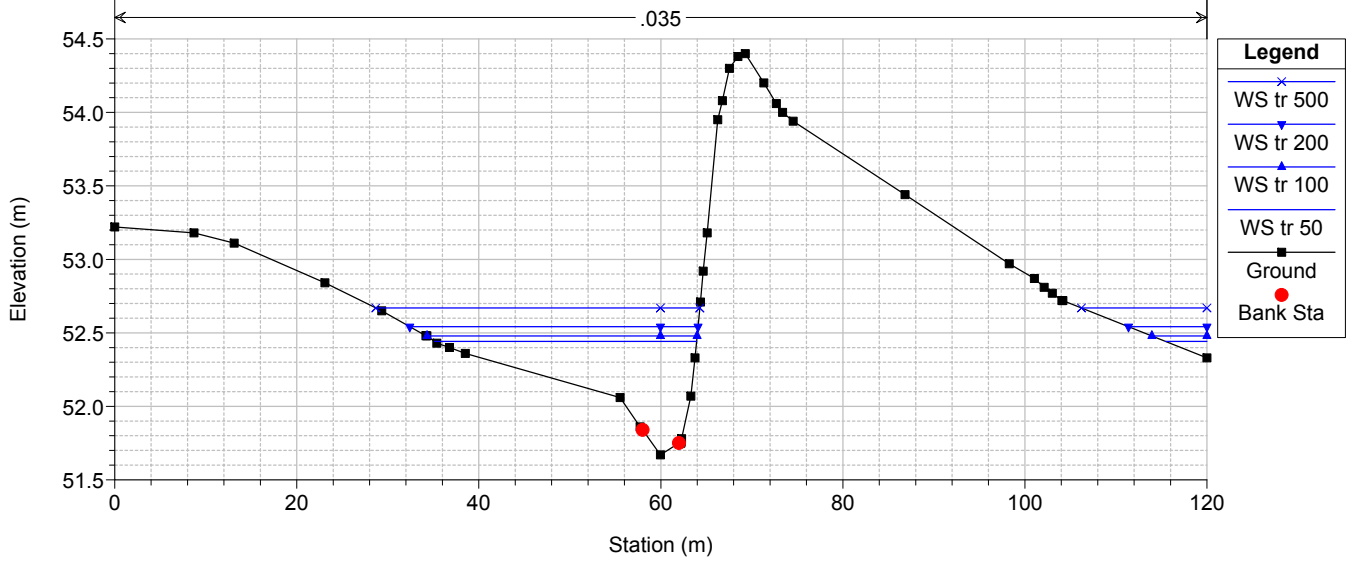
River = 72425 Reach = Asta RS = 1350 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

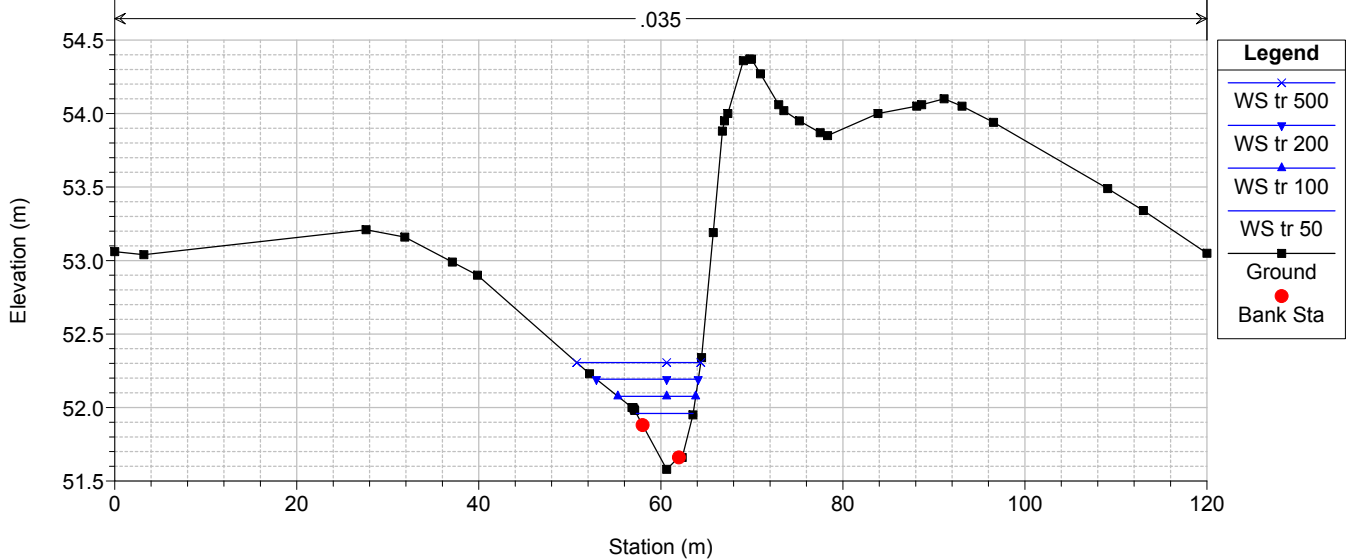
River = 72425 Reach = Asta RS = 1300 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

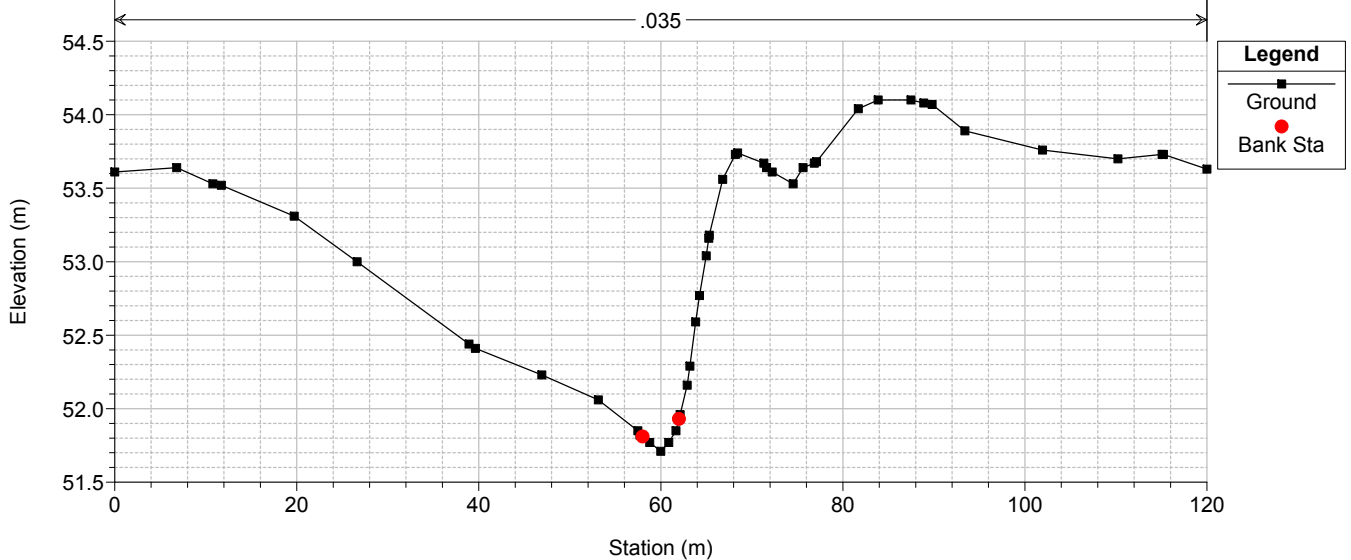
River = 72425 Reach = Asta RS = 1250 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

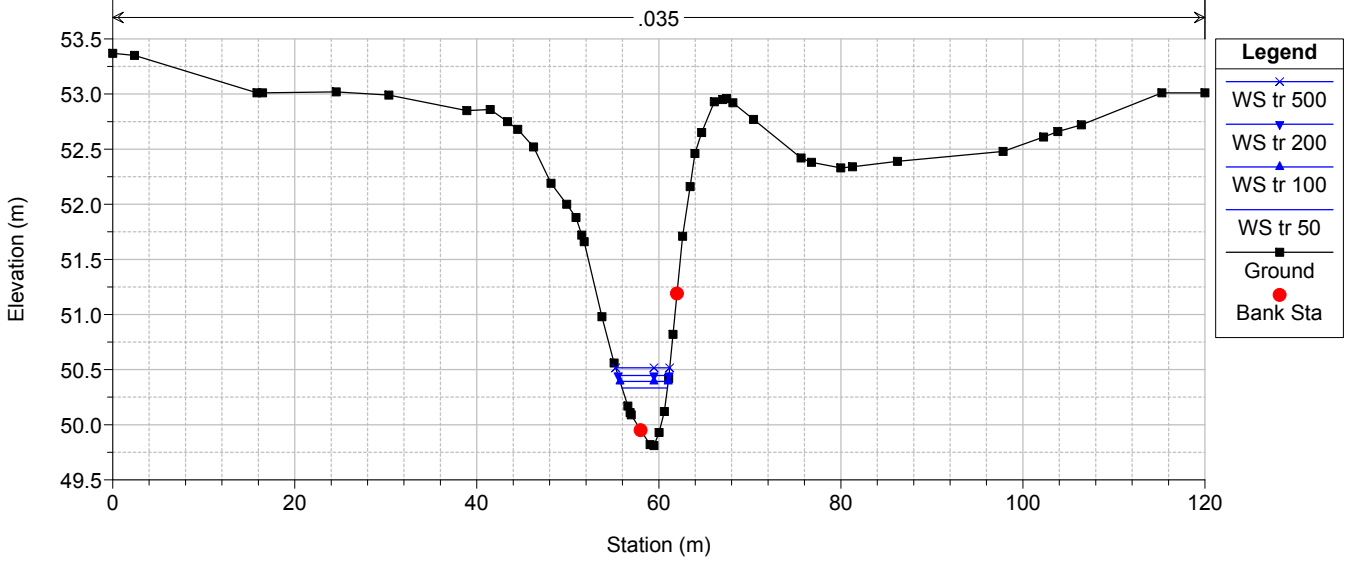
River = 72425 Reach = Asta RS = 1200 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

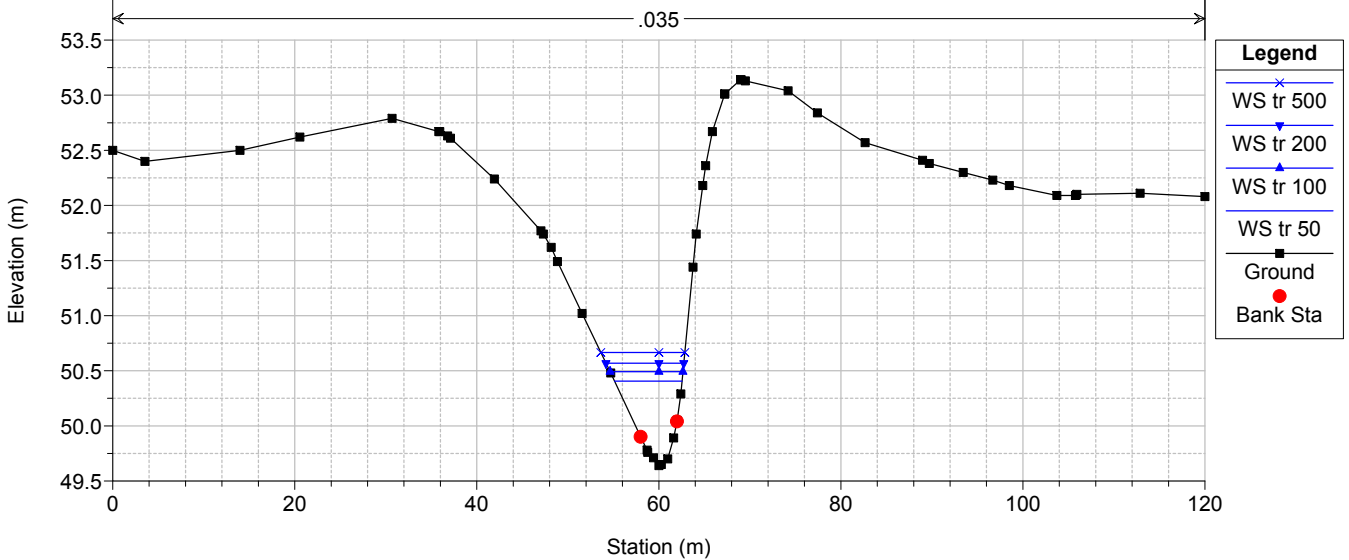
River = 72425 Reach = Asta RS = 1150 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

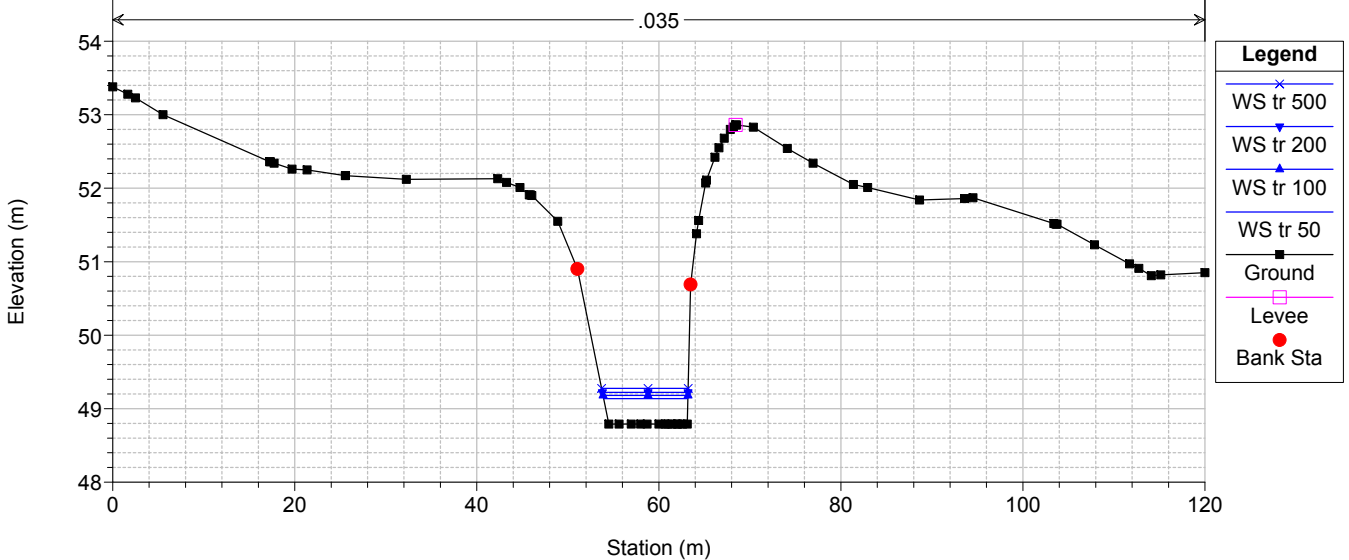
River = 72425 Reach = Asta RS = 1100 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

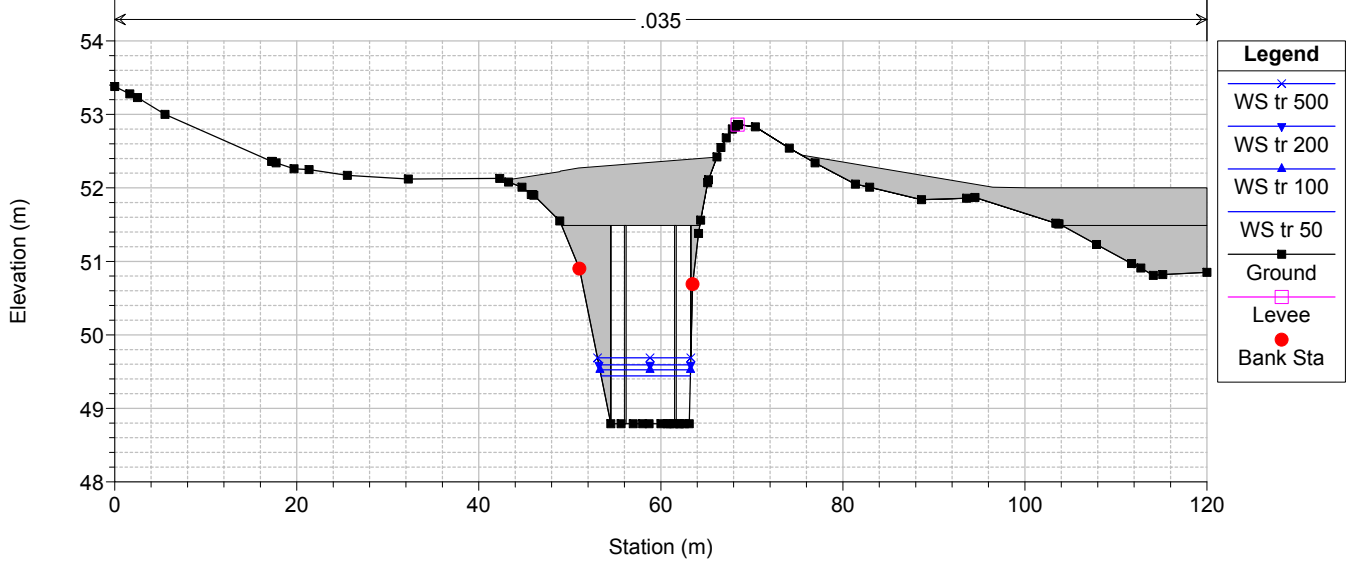
River = 72425 Reach = Asta RS = 1057.457 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

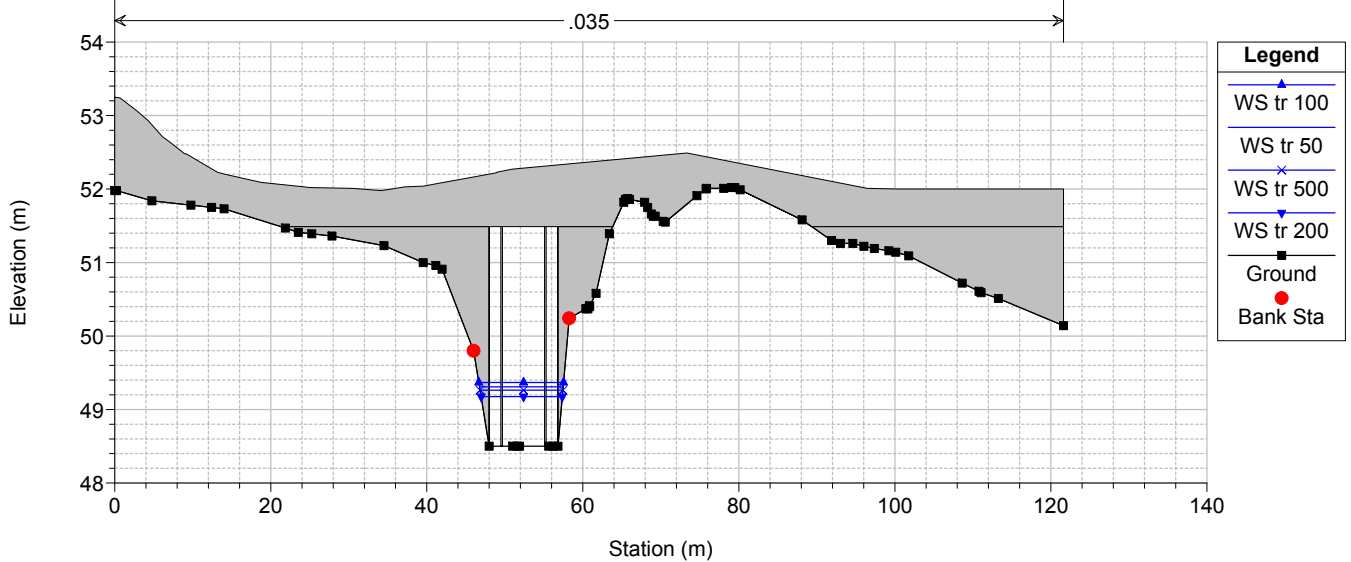
River = 72425 Reach = Asta RS = 1041.848 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

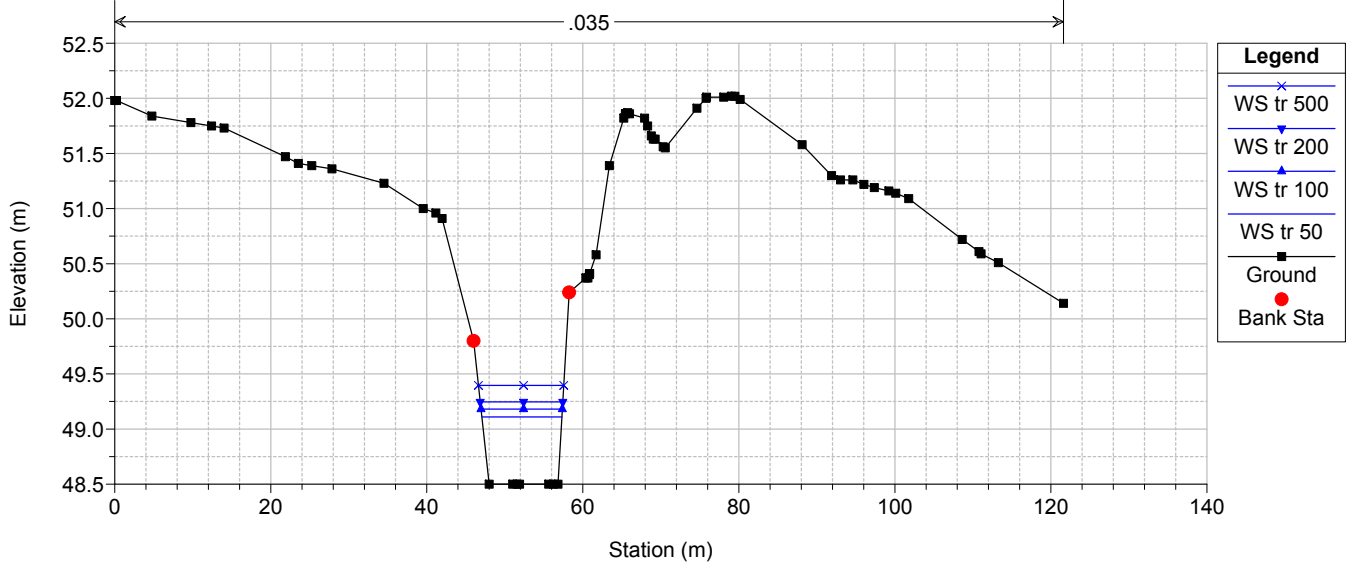
River = 72425 Reach = Asta RS = 1041.848 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

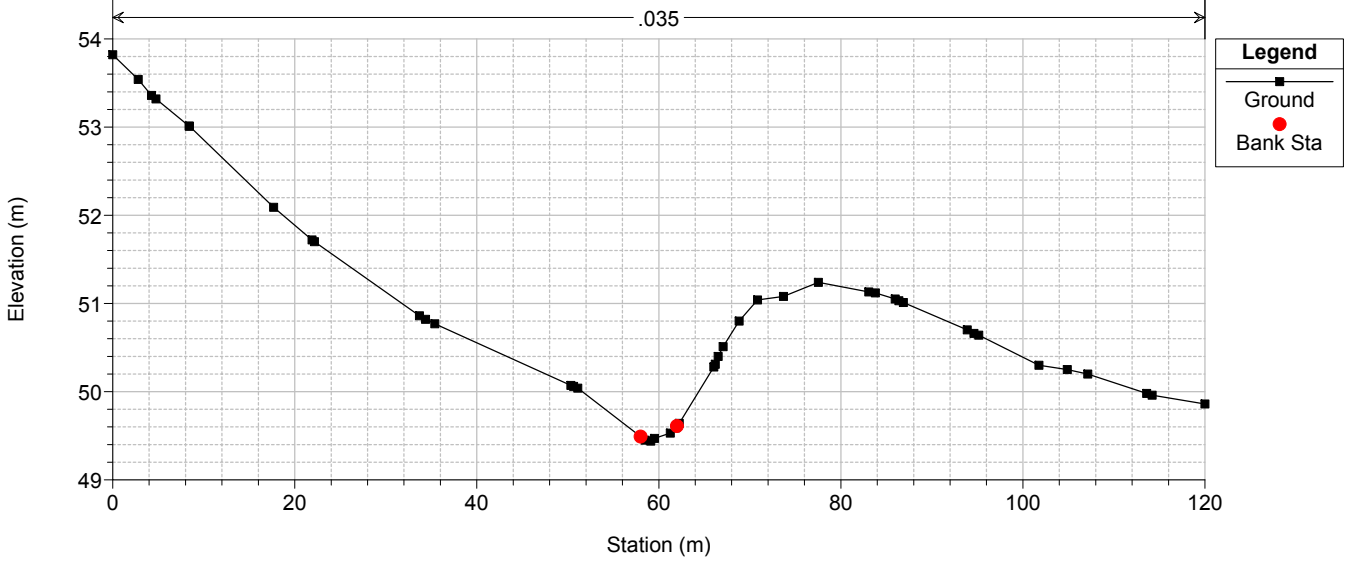
River = 72425 Reach = Asta RS = 1028.632 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

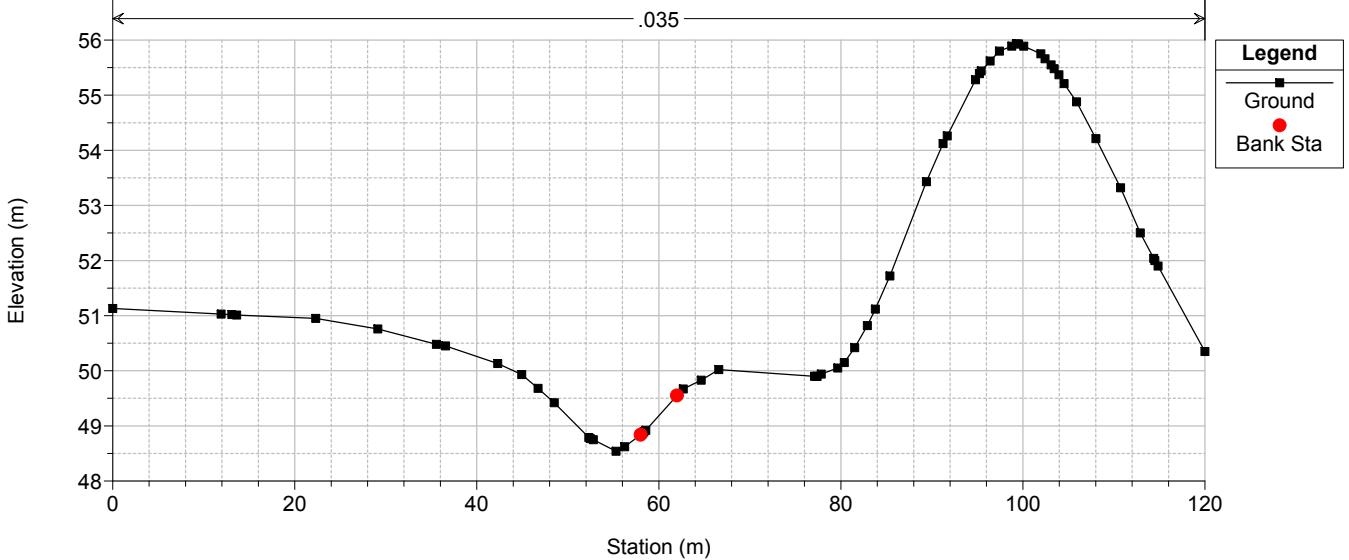
River = 72425 Reach = Asta RS = 999.9999 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

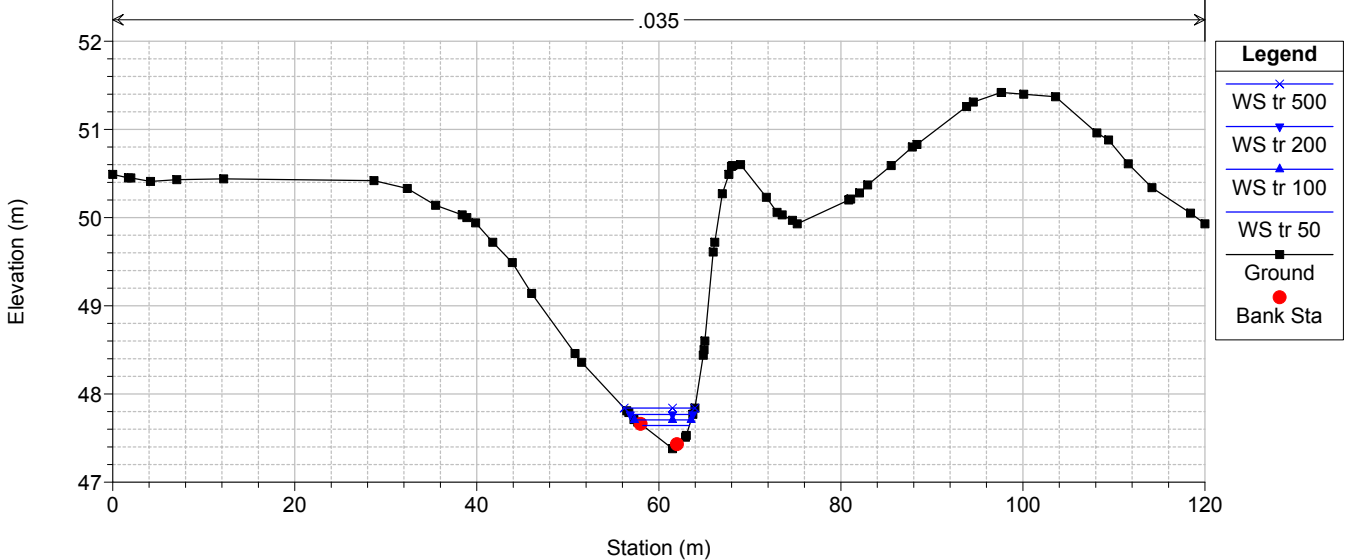
River = 72425 Reach = Asta RS = 950.0001 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

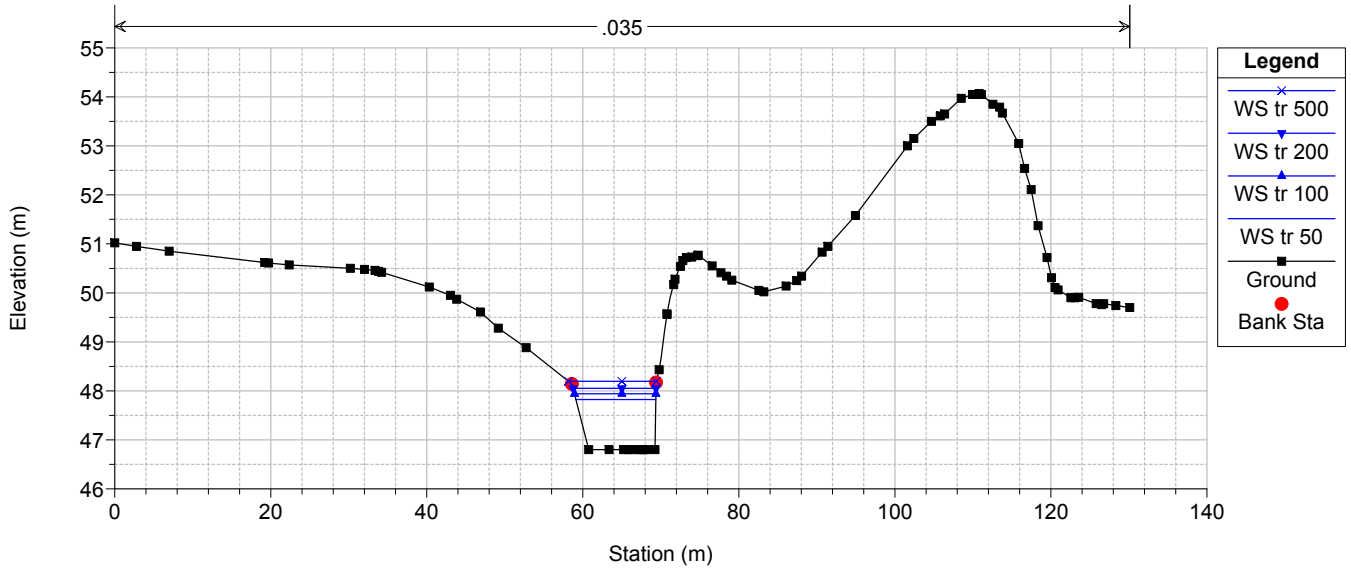
River = 72425 Reach = Asta RS = 899.9999 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

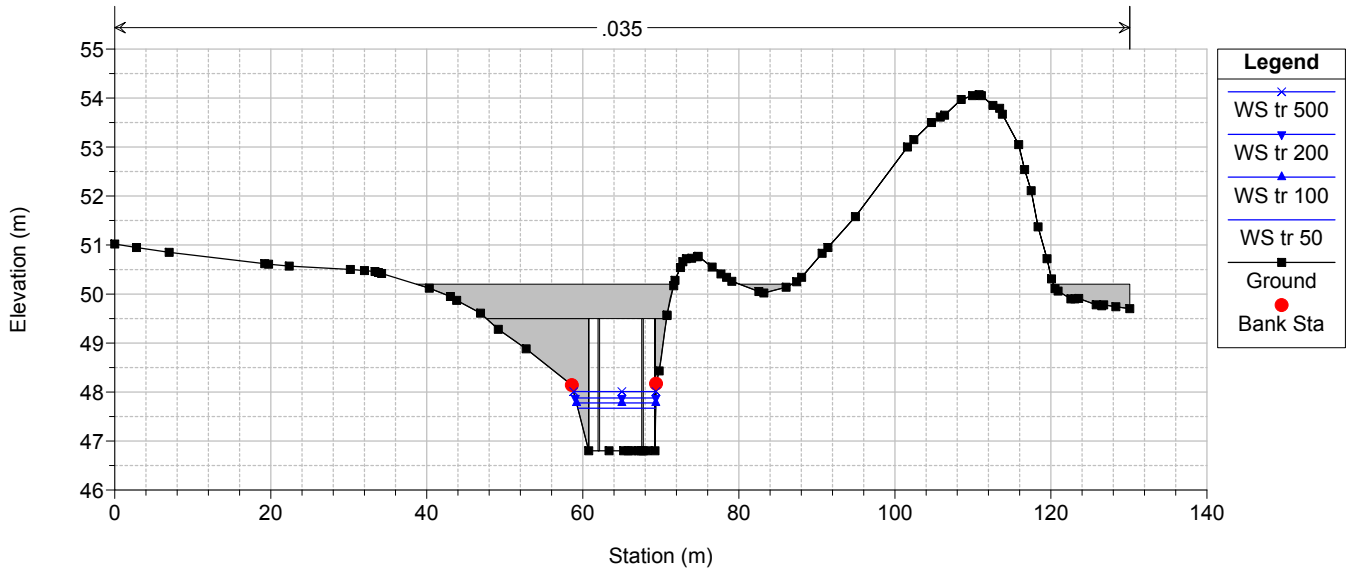
River = 72425 Reach = Asta RS = 874.4871 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

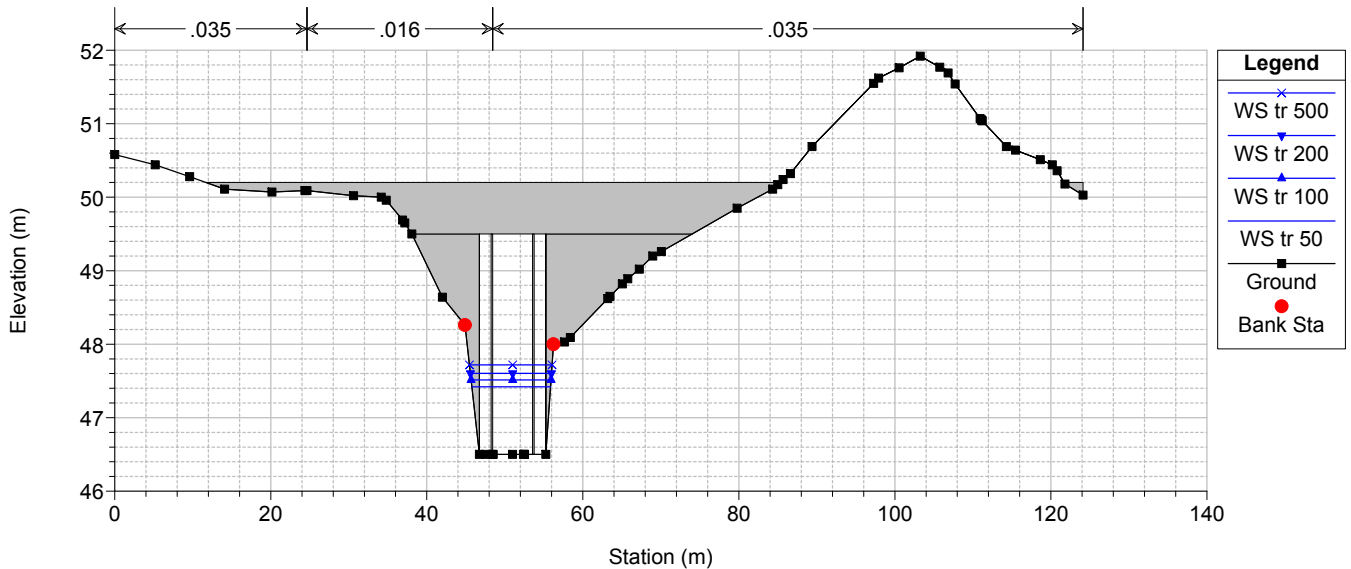
River = 72425 Reach = Asta RS = 858.4899 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

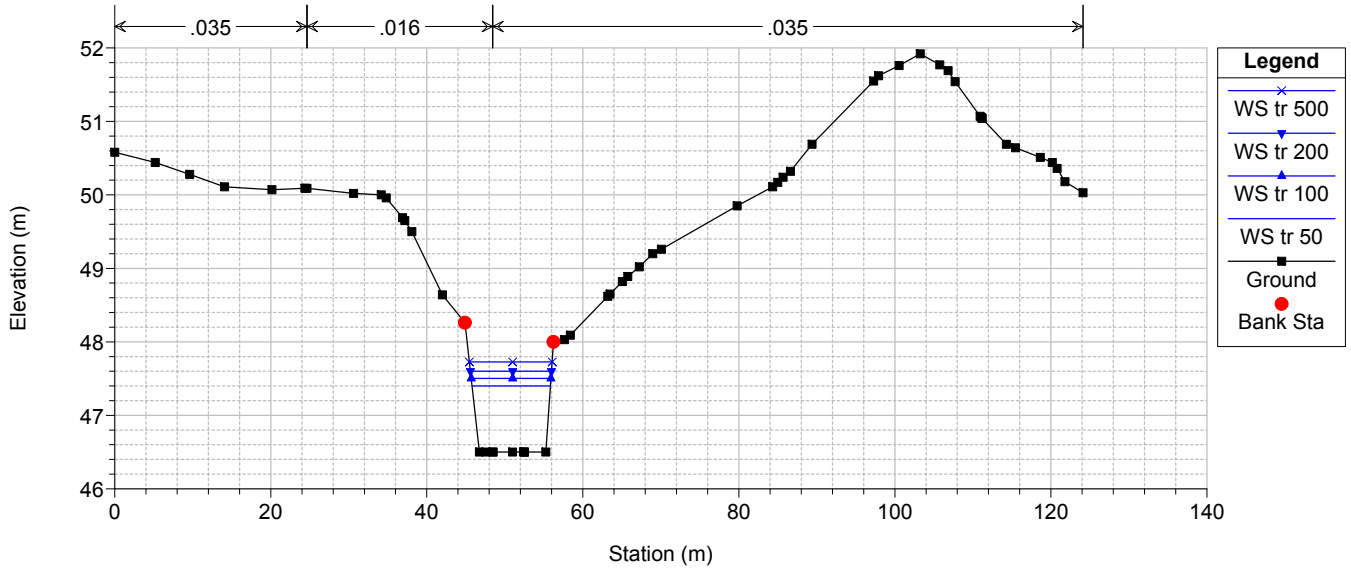
River = 72425 Reach = Asta RS = 858.4899 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

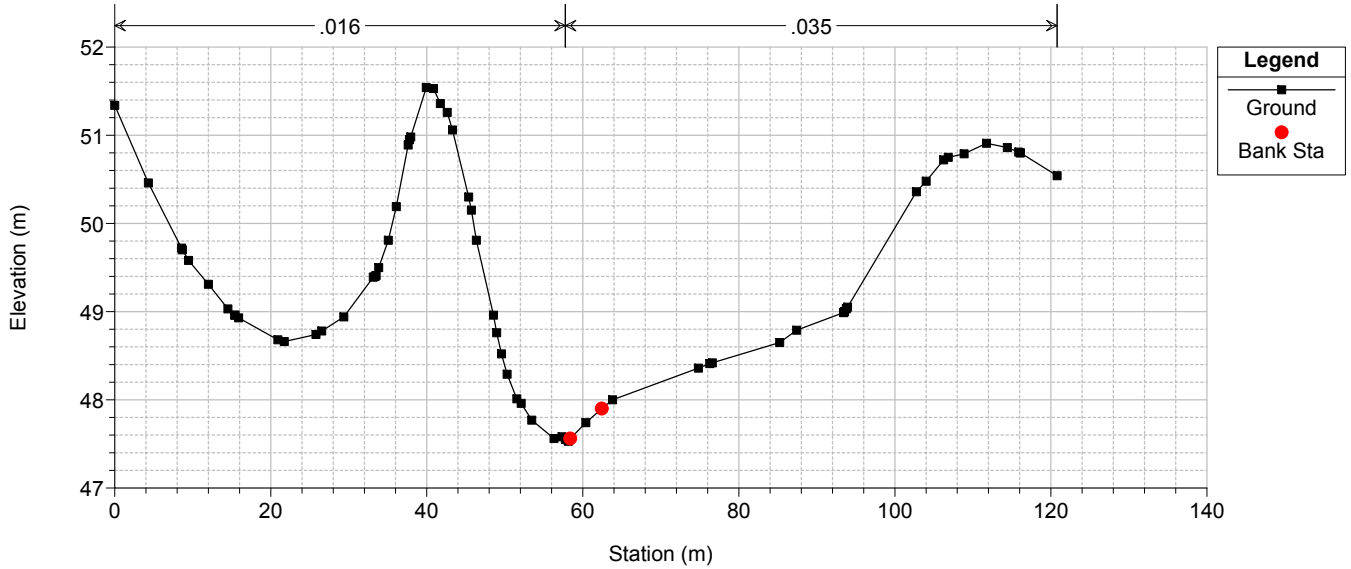
River = 72425 Reach = Asta RS = 825.8108 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

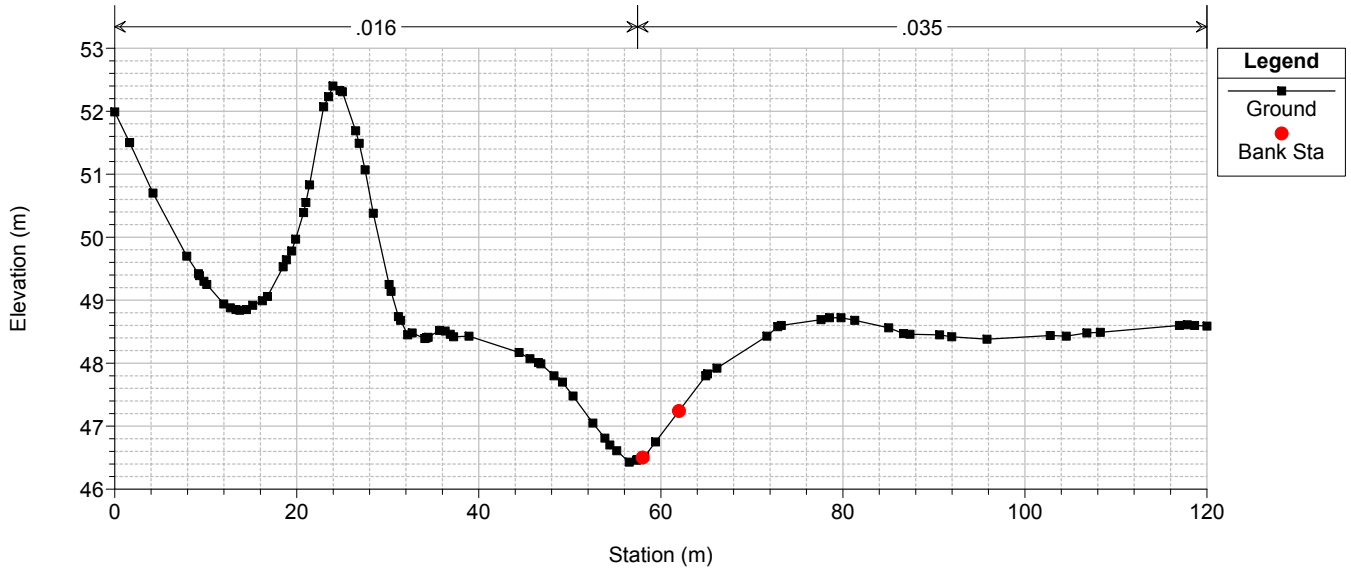
River = 72425 Reach = Asta RS = 792.9191 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

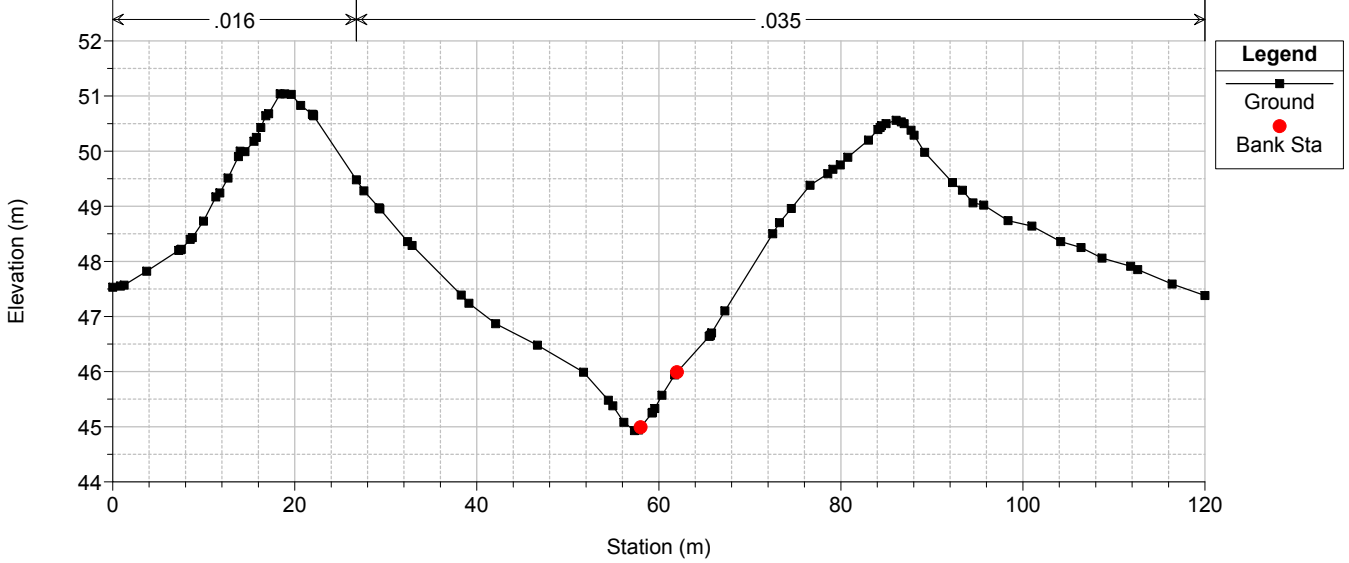
River = 72425 Reach = Asta RS = 750 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

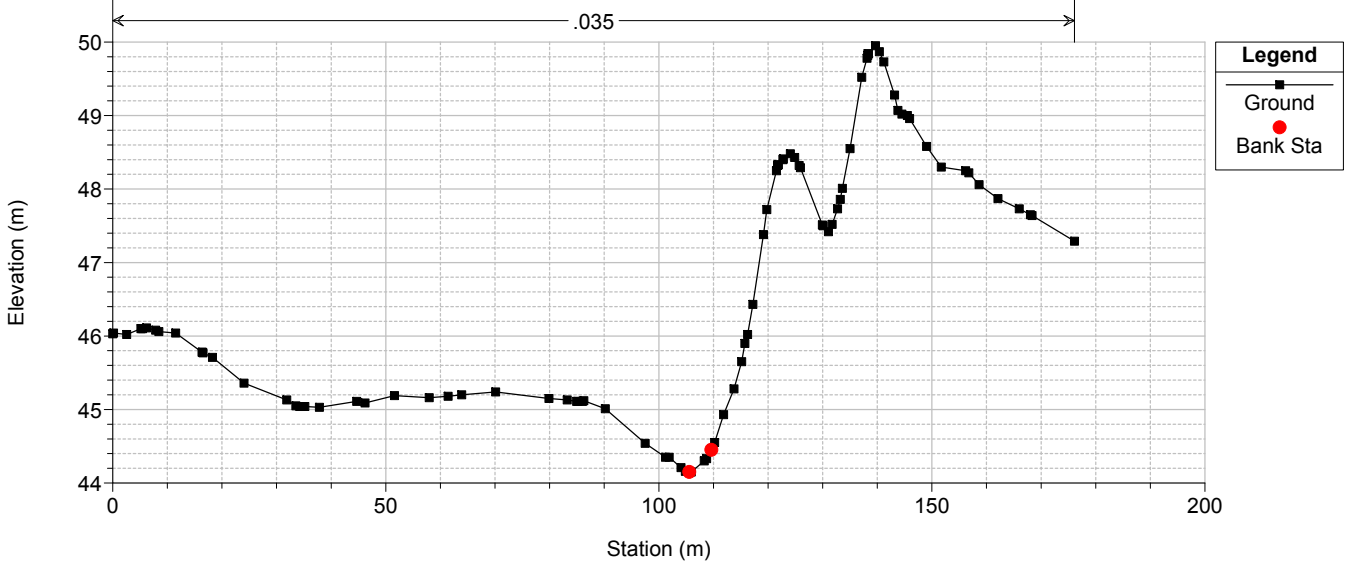
River = 72425 Reach = Asta RS = 699.9999 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

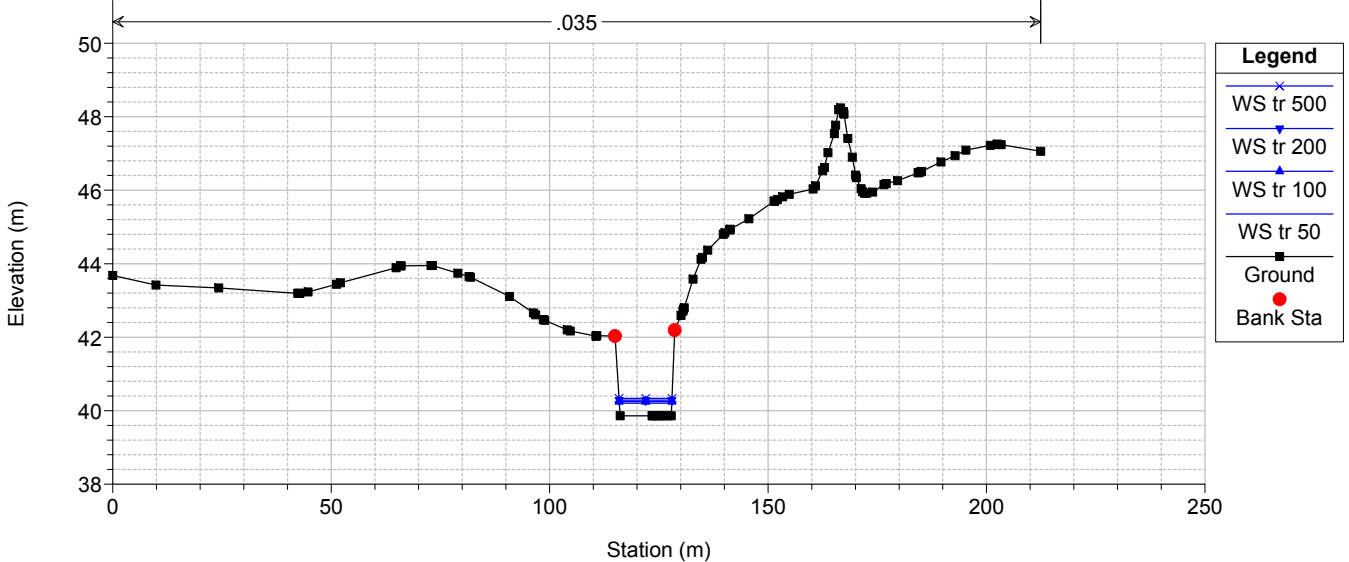
River = 72425 Reach = Asta RS = 667.4977 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

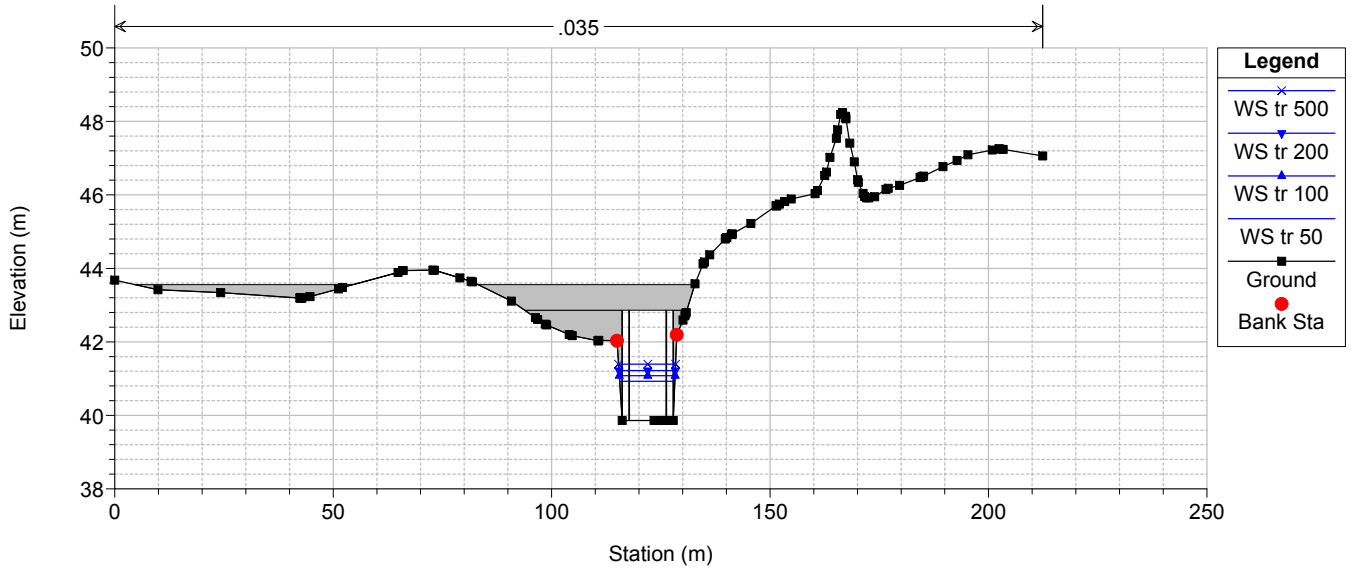
River = 72425 Reach = Asta RS = 629.2197 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

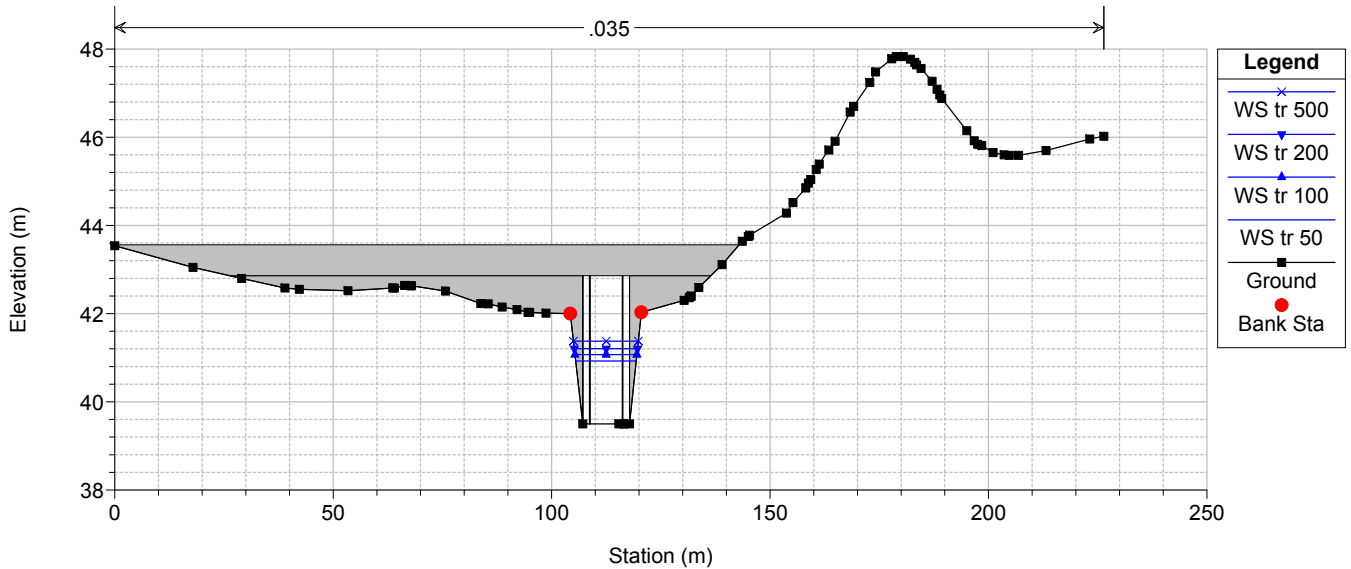
River = 72425 Reach = Asta RS = 611.8381 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

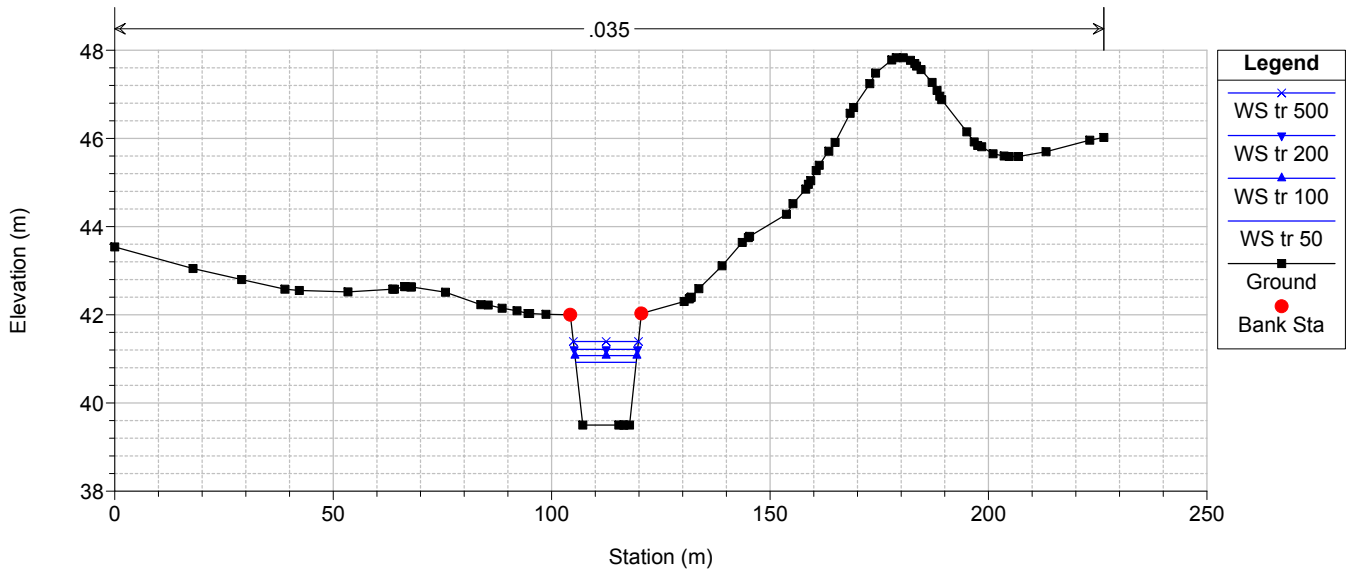
River = 72425 Reach = Asta RS = 611.8381 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

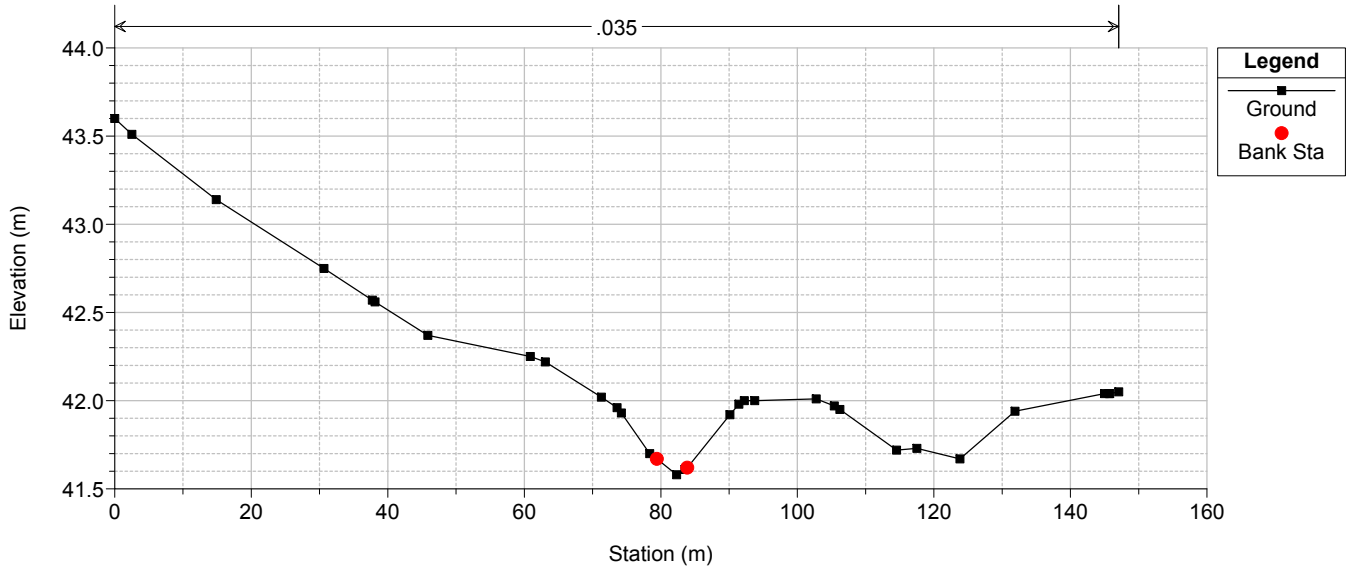
River = 72425 Reach = Asta RS = 600.9209 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

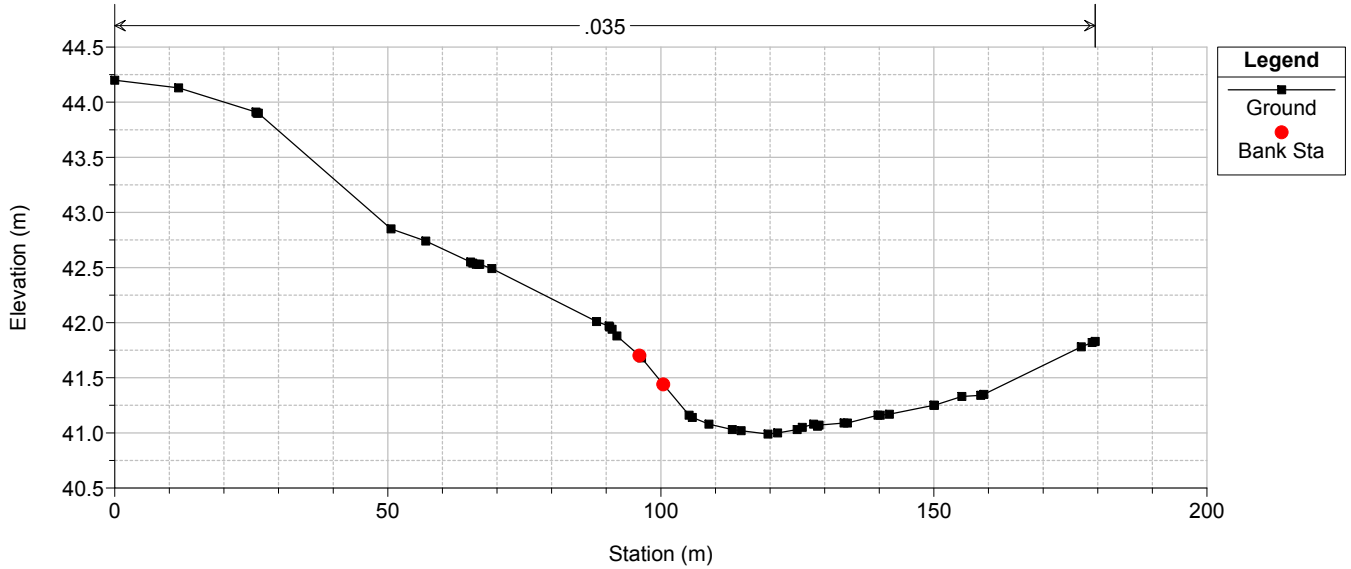
River = 72425 Reach = Asta RS = 552.3627 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

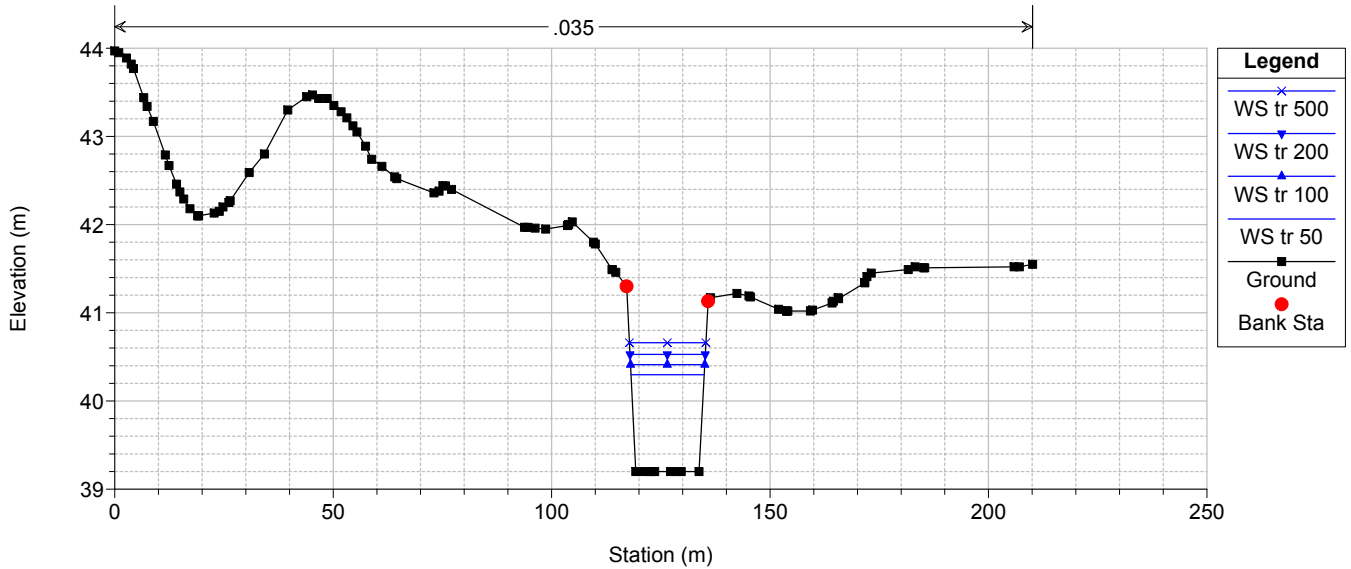
River = 72425 Reach = Asta RS = 523.929 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

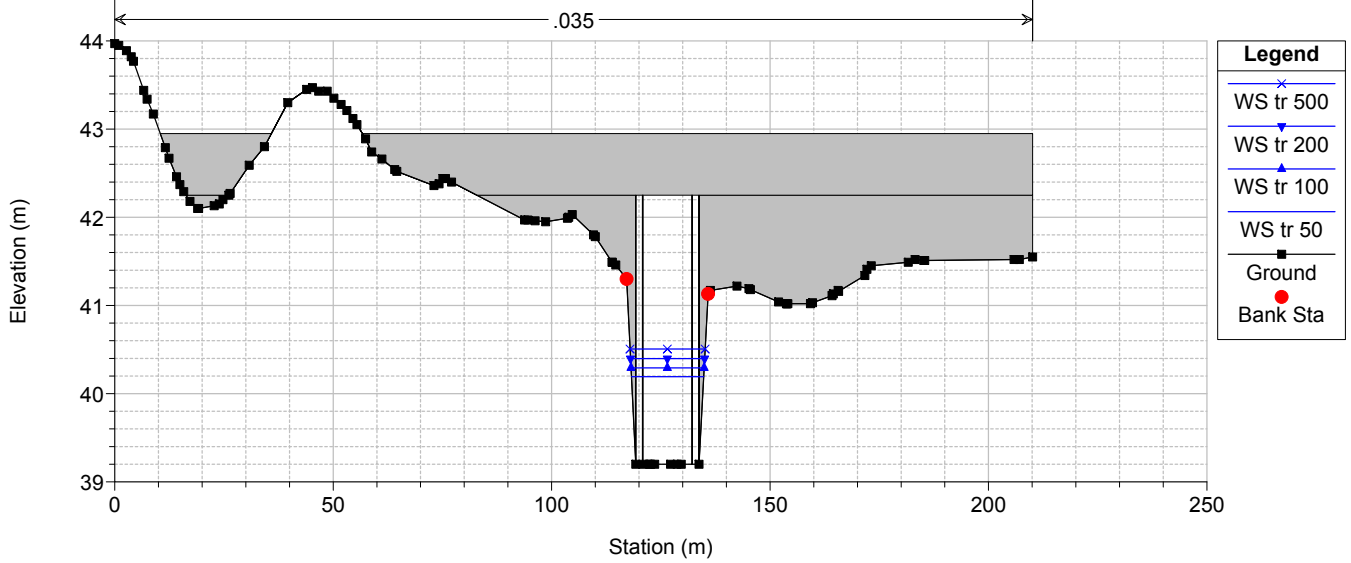
River = 72425 Reach = Asta RS = 496.7194 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

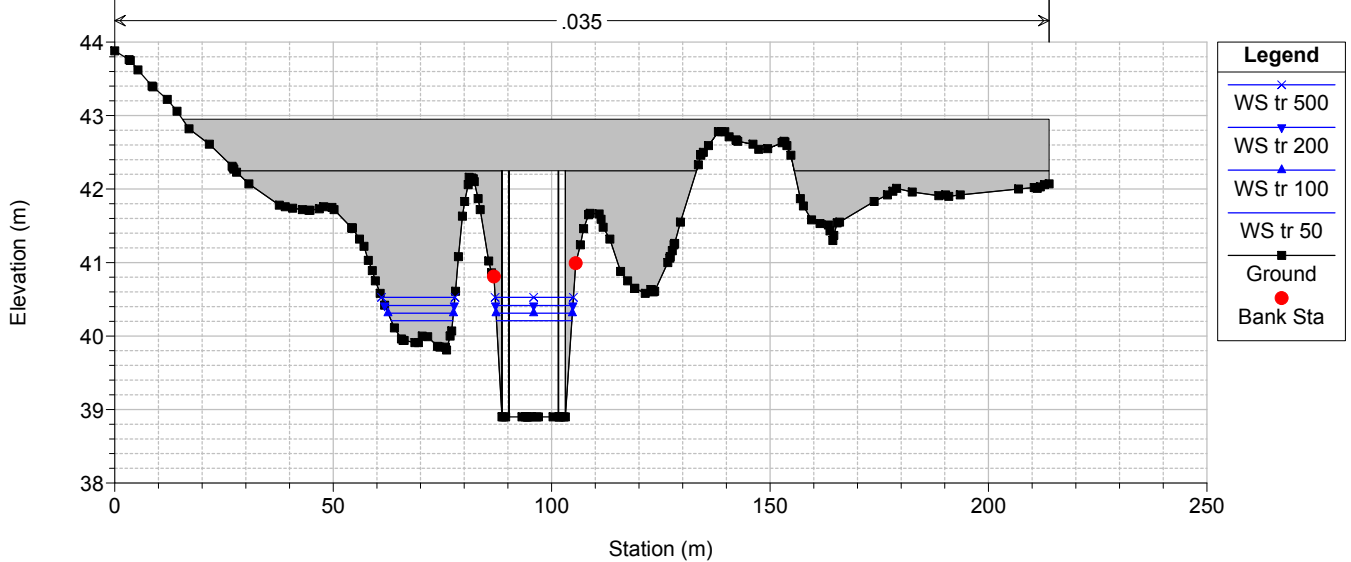
River = 72425 Reach = Asta RS = 483.6925 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

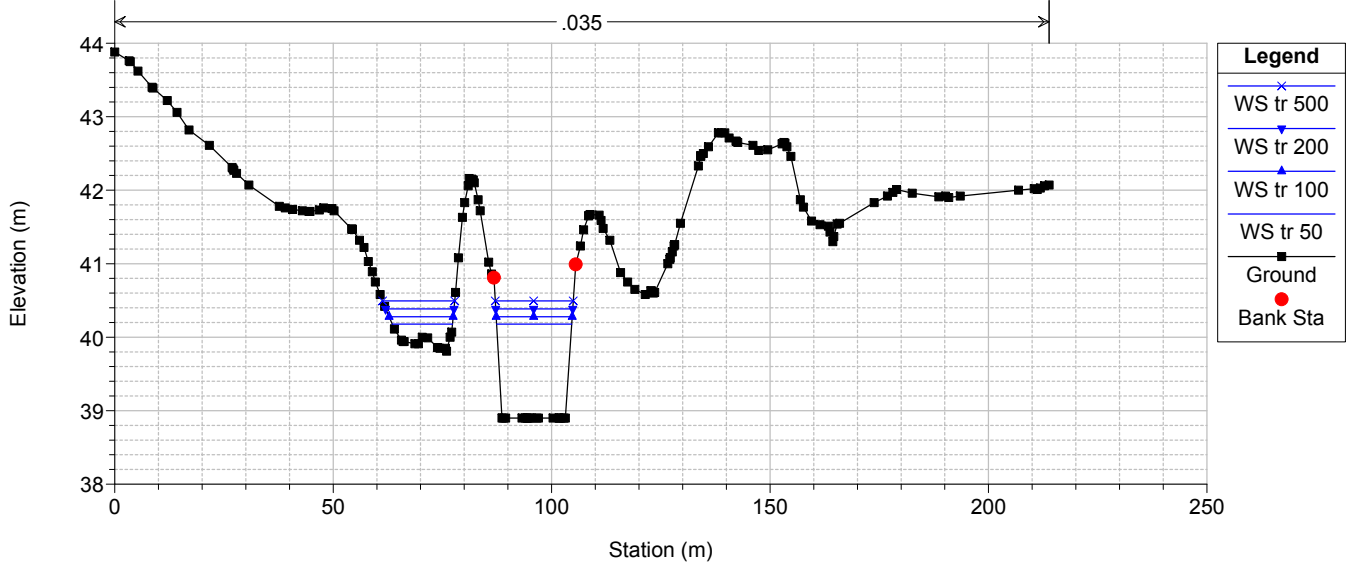
River = 72425 Reach = Asta RS = 483.6925 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

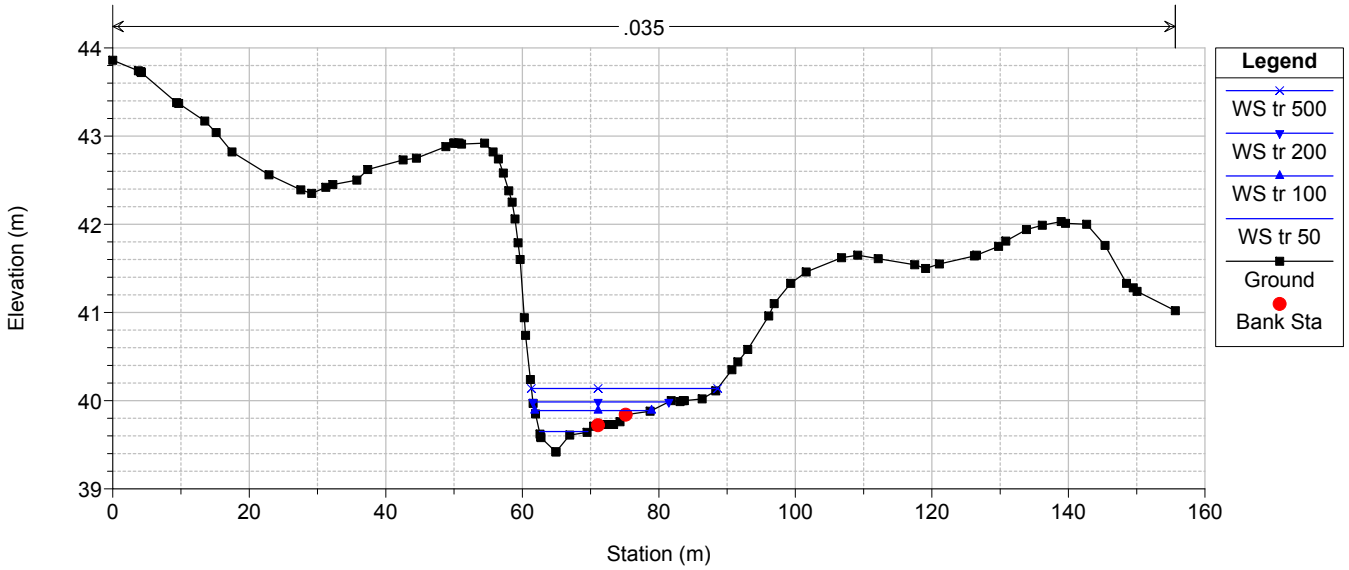
River = 72425 Reach = Asta RS = 459.7868 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

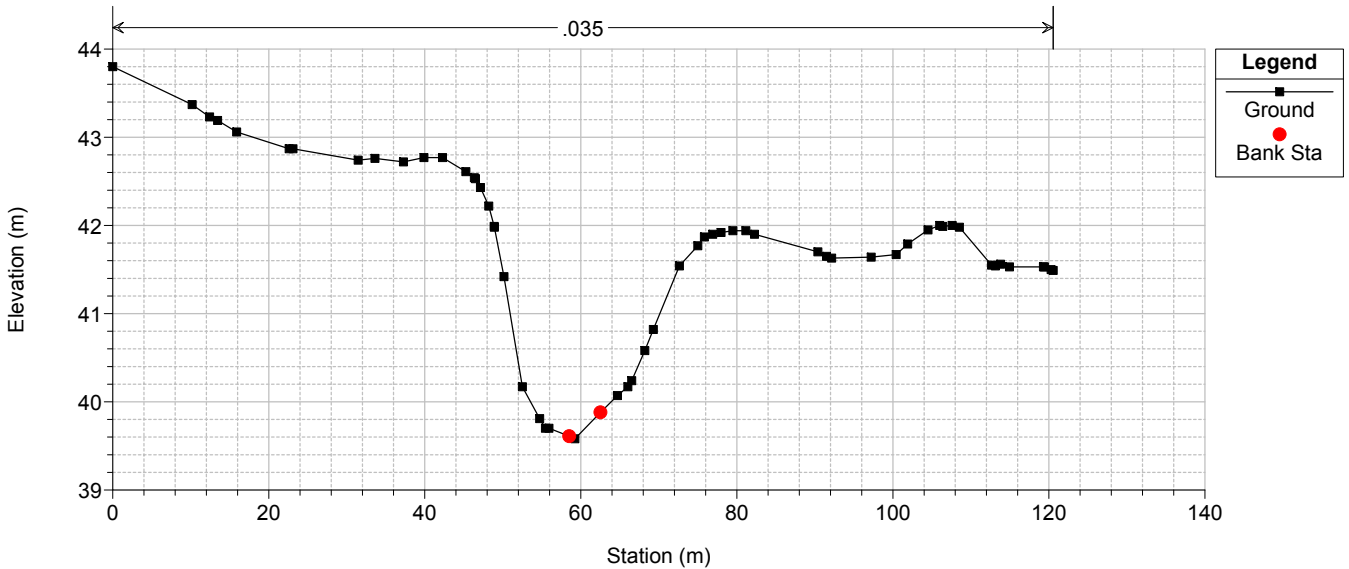
River = 72425 Reach = Asta RS = 431.9053 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

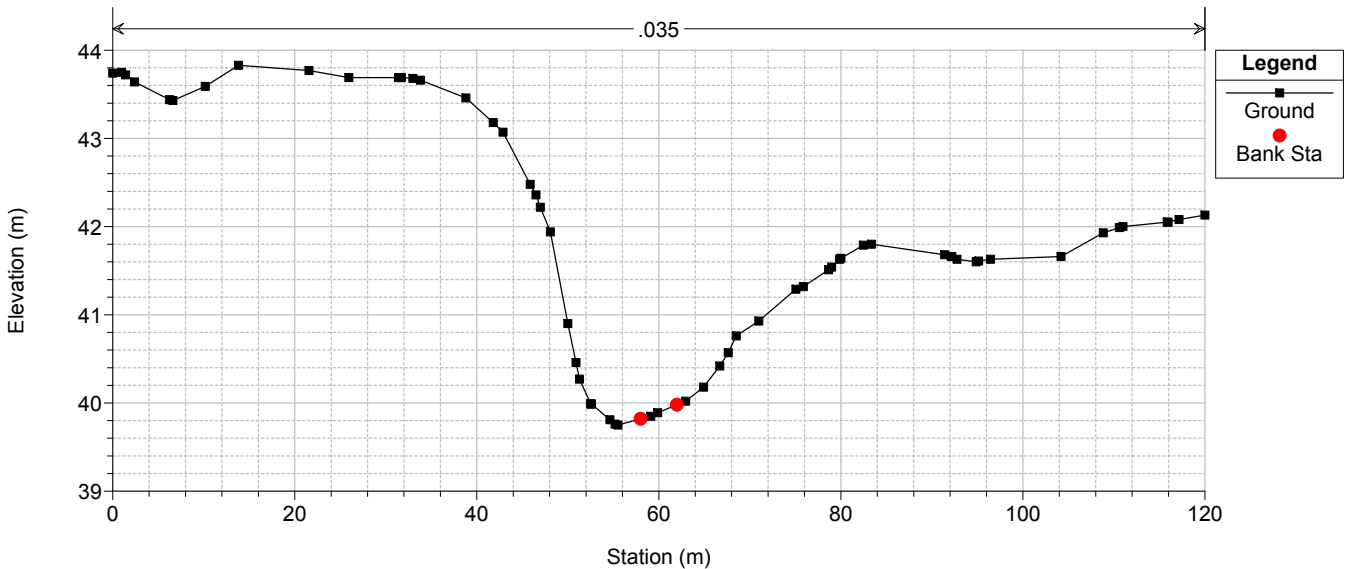
River = 72425 Reach = Asta RS = 398.3658 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

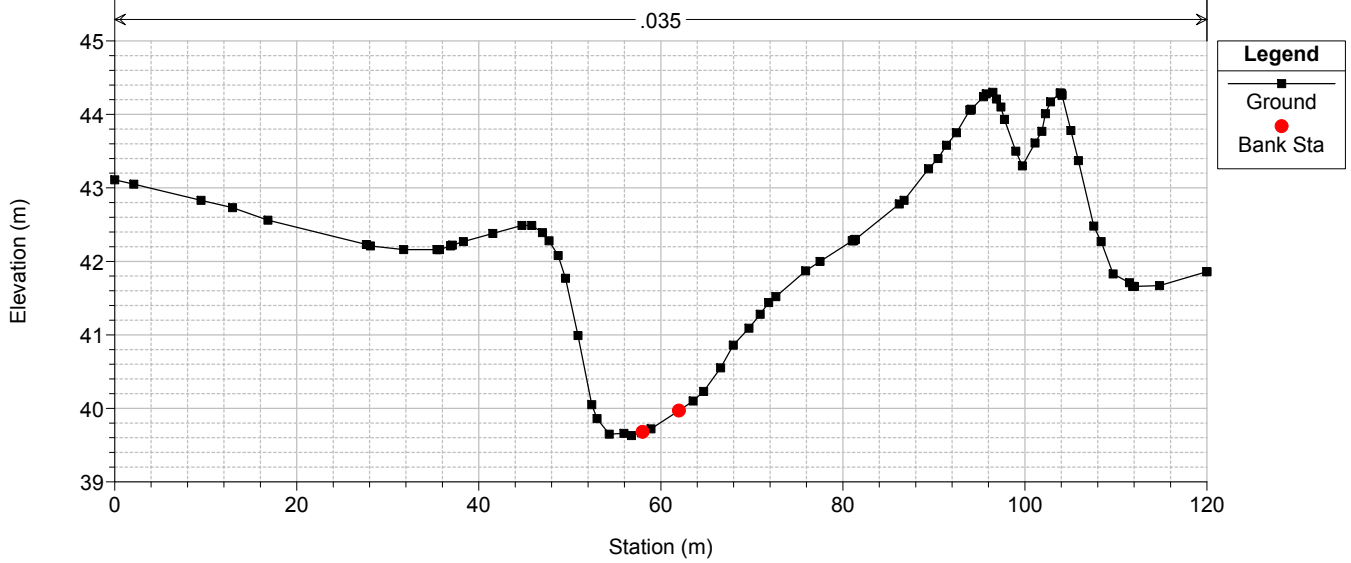
River = 72425 Reach = Asta RS = 350 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

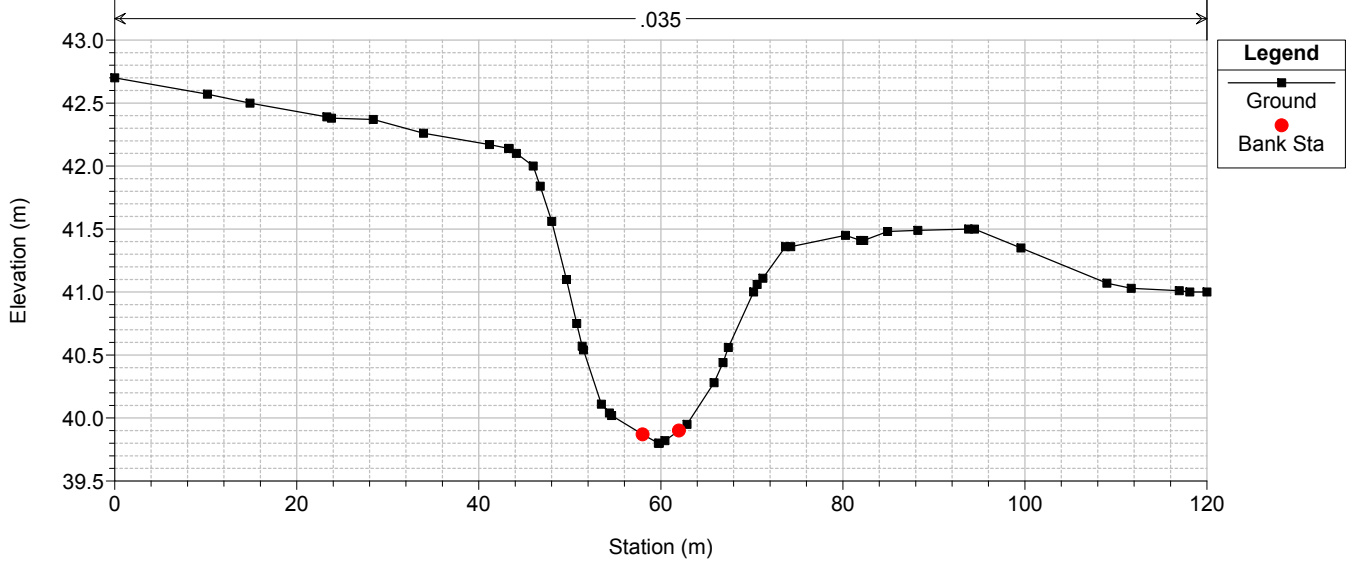
River = 72425 Reach = Asta RS = 300 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

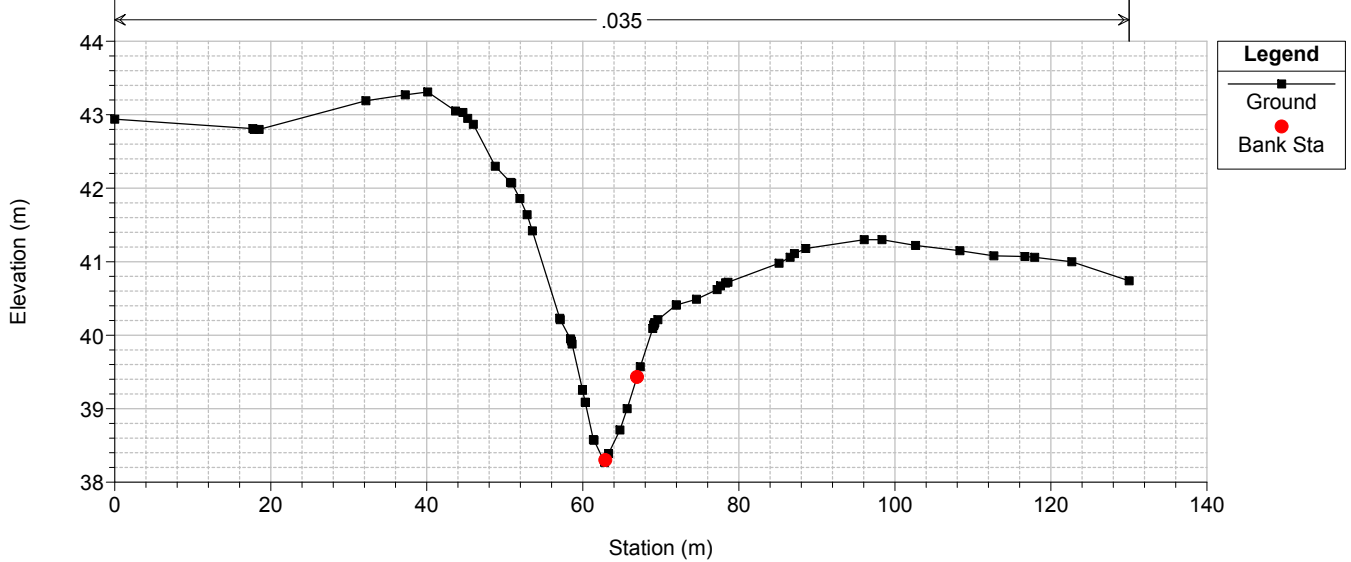
River = 72425 Reach = Asta RS = 250 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

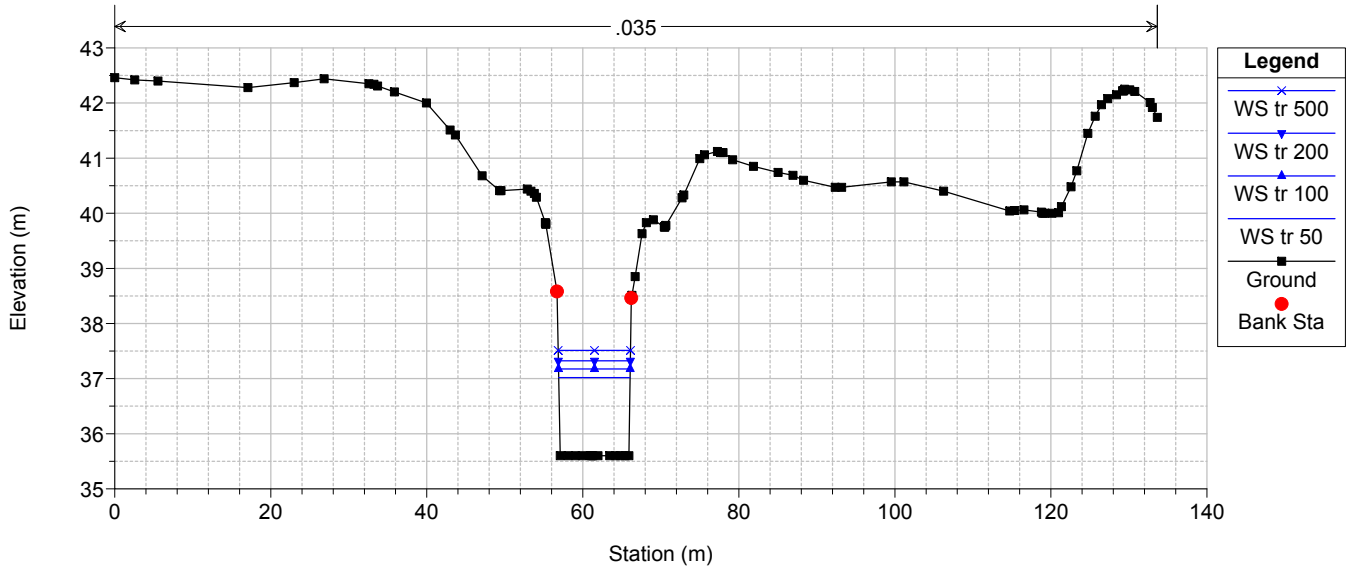
River = 72425 Reach = Asta RS = 215.693 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

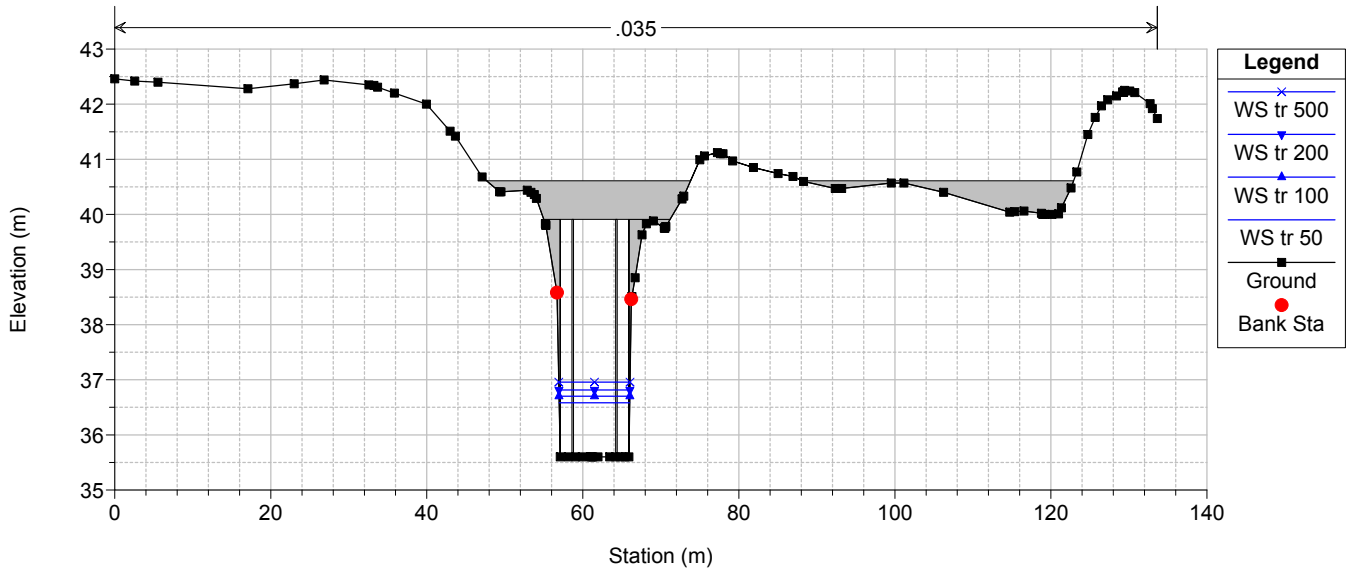
River = 72425 Reach = Asta RS = 185.4014 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

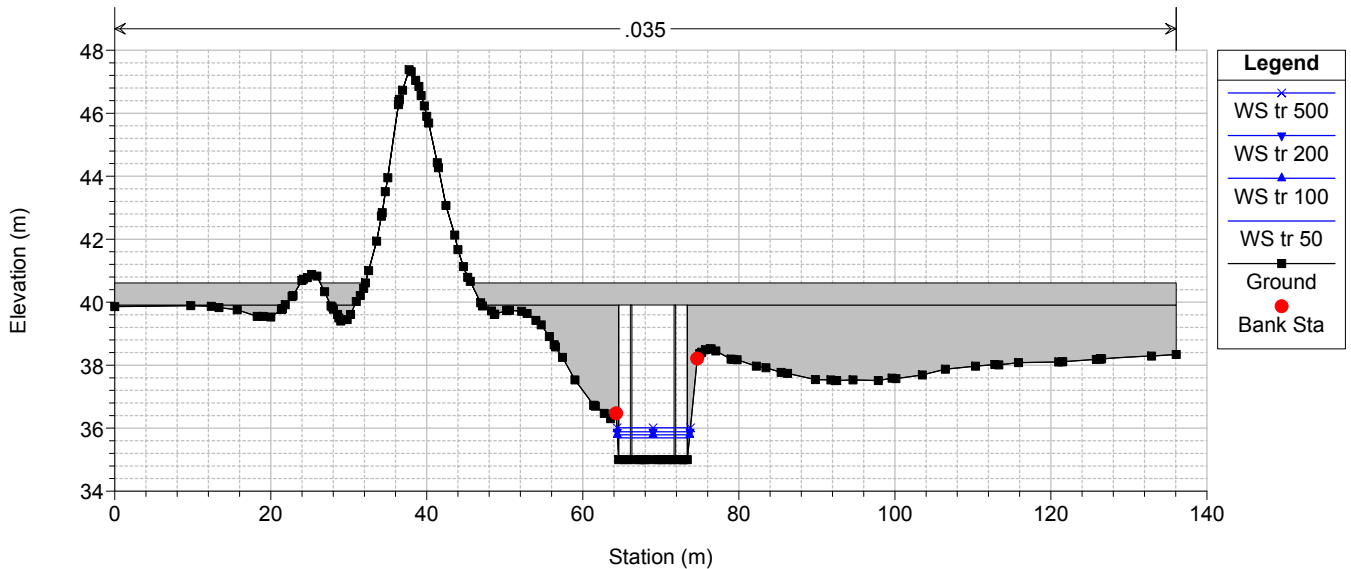
River = 72425 Reach = Asta RS = 166.0982 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

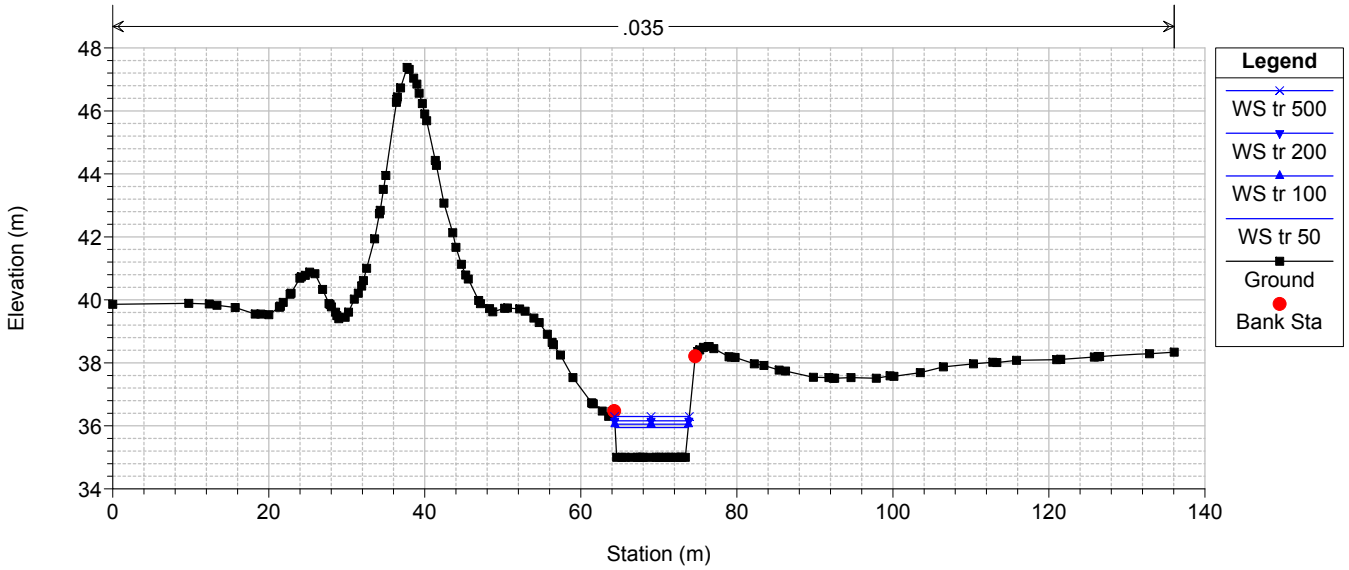
River = 72425 Reach = Asta RS = 166.0982 BR COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

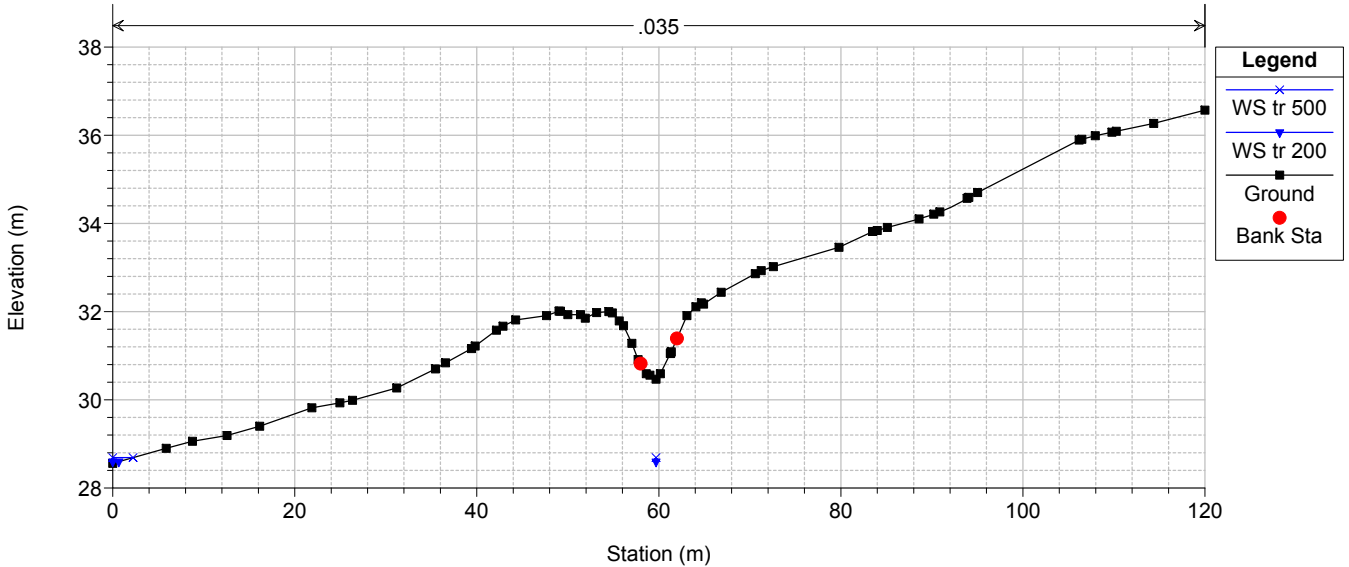
River = 72425 Reach = Asta RS = 152.8832 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

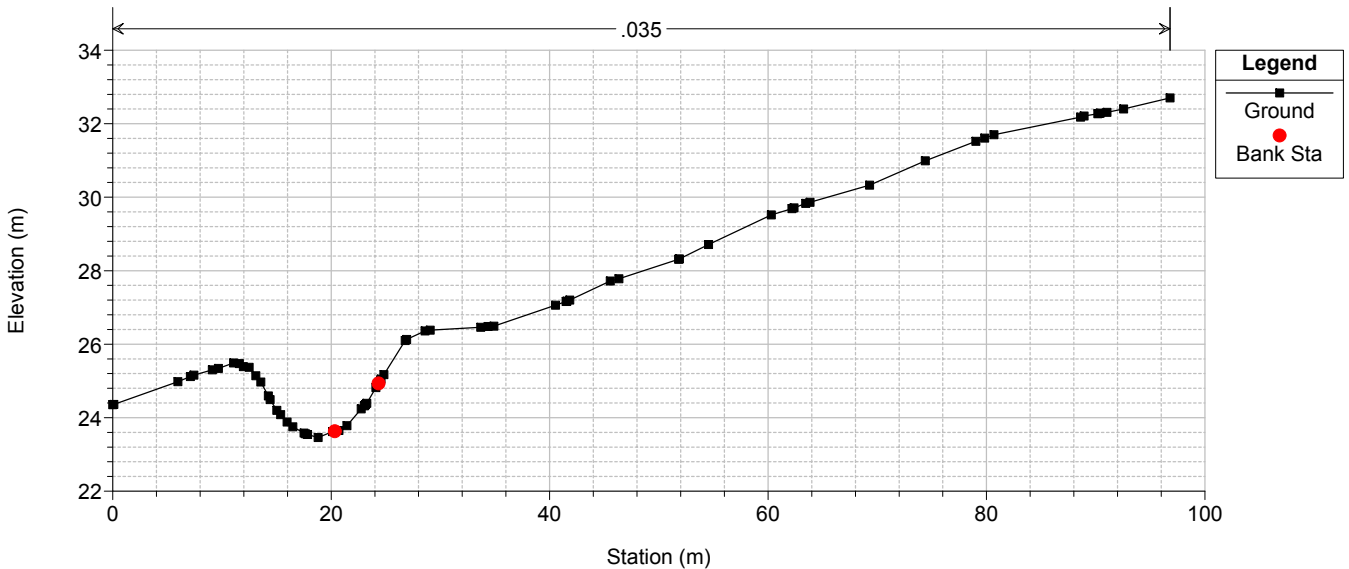
River = 72425 Reach = Asta RS = 100 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

River = 72425 Reach = Asta RS = 50.87643 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	1400	tr 50	8.06	127.90	128.42	128.42	128.60	0.014093	1.96	4.61	13.87	0.94
Asta	1400	tr 100	9.32	127.90	128.46	128.46	128.65	0.013520	2.03	5.18	14.47	0.94
Asta	1400	tr 200	10.60	127.90	128.50	128.50	128.70	0.013294	2.11	5.70	15.00	0.94
Asta	1400	tr 500	12.37	127.90	128.55	128.55	128.76	0.012900	2.21	6.42	15.72	0.94
Asta	1382.442	tr 50	8.06	126.48	126.82	126.96	127.28	0.061701	3.10	2.79	11.86	1.84
Asta	1382.442	tr 100	9.32	126.48	126.84	127.00	127.35	0.062789	3.29	3.06	12.25	1.88
Asta	1382.442	tr 200	10.60	126.48	126.87	127.04	127.42	0.061985	3.43	3.35	12.67	1.89
Asta	1382.442	tr 500	12.37	126.48	126.90	127.08	127.51	0.061510	3.62	3.74	13.22	1.91
Asta	1370.62	tr 50	8.06	125.60	125.95	126.11	126.47	0.074874	3.35	2.62	11.71	2.02
Asta	1370.62	tr 100	9.32	125.60	125.97	126.15	126.54	0.074045	3.52	2.91	12.24	2.03
Asta	1370.62	tr 200	10.60	125.60	126.00	126.18	126.61	0.073811	3.68	3.19	12.72	2.06
Asta	1370.62	tr 500	12.37	125.60	126.02	126.22	126.71	0.073432	3.89	3.56	13.34	2.08
Asta	1359.317	tr 50	8.06	124.44	124.71	124.88	125.37	0.129004	3.61	2.26	11.51	2.52
Asta	1359.317	tr 100	9.32	124.44	124.73	124.92	125.45	0.127901	3.79	2.50	11.94	2.54
Asta	1359.317	tr 200	10.60	124.44	124.75	124.96	125.53	0.126611	3.94	2.74	12.36	2.56
Asta	1359.317	tr 500	12.37	124.44	124.77	125.00	125.63	0.125167	4.13	3.07	12.90	2.58
Asta	1350	tr 50	8.06	122.93	123.24	123.44	124.07	0.148107	4.17	2.10	11.57	2.75
Asta	1350	tr 100	9.32	122.93	123.26	123.48	124.16	0.146524	4.37	2.33	11.90	2.77
Asta	1350	tr 200	10.60	122.93	123.28	123.51	124.25	0.144939	4.56	2.56	12.22	2.79
Asta	1350	tr 500	12.37	122.93	123.30	123.56	124.36	0.142747	4.79	2.86	12.64	2.81
Asta	1300	tr 50	8.06	117.43	117.73	117.90	118.33	0.089639	3.77	2.55	12.79	2.22
Asta	1300	tr 100	9.32	117.43	117.75	117.93	118.41	0.090699	3.97	2.82	13.43	2.26
Asta	1300	tr 200	10.60	117.43	117.77	117.97	118.48	0.091766	4.16	3.09	14.03	2.30
Asta	1300	tr 500	12.37	117.43	117.80	118.01	118.57	0.093270	4.39	3.44	14.65	2.35
Asta	1279.656	tr 50	8.06	115.86	116.25	116.28	116.43	0.018871	2.02	4.63	18.27	1.06
Asta	1279.656	tr 100	9.32	115.86	116.28	116.32	116.47	0.019107	2.13	5.13	19.17	1.08
Asta	1279.656	tr 200	10.60	115.86	116.30	116.35	116.52	0.019336	2.23	5.61	19.83	1.10
Asta	1279.656	tr 500	12.37	115.86	116.33	116.38	116.57	0.019624	2.35	6.24	20.63	1.12
Asta	1260.045	tr 50	8.06	113.15	113.38	113.66	115.25	0.439651	6.67	1.42	9.42	4.66
Asta	1260.045	tr 100	9.32	113.15	113.40	113.70	115.30	0.395963	6.76	1.63	9.90	4.49
Asta	1260.045	tr 200	10.60	113.15	113.42	113.73	115.34	0.362013	6.85	1.84	10.36	4.36
Asta	1260.045	tr 500	12.37	113.15	113.45	113.77	115.40	0.326167	6.96	2.13	10.96	4.21
Asta	1250	tr 50	8.06	110.62	113.62	111.22	113.63	0.000010	0.19	57.10	31.07	0.03
Asta	1250	tr 100	9.32	110.62	113.71	111.26	113.71	0.000012	0.21	59.75	31.70	0.04
Asta	1250	tr 200	10.60	110.62	113.79	111.30	113.79	0.000014	0.23	62.29	32.29	0.04
Asta	1250	tr 500	12.37	110.62	113.89	111.36	113.89	0.000017	0.25	65.60	33.04	0.04
Asta	1234.441	tr 50	8.06	112.44	113.32	113.32	113.60	0.012072	2.42	3.67	7.02	0.93
Asta	1234.441	tr 100	9.32	112.44	113.38	113.38	113.68	0.011742	2.52	4.11	7.34	0.93
Asta	1234.441	tr 200	10.60	112.44	113.44	113.44	113.76	0.011428	2.62	4.55	7.65	0.93
Asta	1234.441	tr 500	12.37	112.44	113.52	113.52	113.86	0.010917	2.72	5.17	8.07	0.92
Asta	1220.72	tr 50	8.06	110.18	110.50	110.85	112.89	0.501840	6.87	1.19	6.70	4.92
Asta	1220.72	tr 100	9.32	110.18	110.53	110.90	112.99	0.442279	6.99	1.37	7.05	4.71
Asta	1220.72	tr 200	10.60	110.18	110.55	110.94	113.08	0.398081	7.11	1.54	7.39	4.55
Asta	1220.72	tr 500	12.37	110.18	110.58	111.00	113.20	0.354196	7.26	1.79	7.83	4.38
Asta	1200	tr 50	8.06	110.00	110.67	110.30	110.68	0.000738	0.56	16.44	33.71	0.23
Asta	1200	tr 100	9.32	110.00	110.72	110.32	110.74	0.000724	0.58	18.26	34.77	0.23
Asta	1200	tr 200	10.60	110.00	110.77	110.35	110.79	0.000714	0.61	20.01	35.65	0.23
Asta	1200	tr 500	12.37	110.00	110.84	110.38	110.85	0.000703	0.64	22.31	36.77	0.23
Asta	1189.572	tr 50	8.06	109.69	110.39	110.39	110.57	0.010677	2.17	4.78	13.01	0.87
Asta	1189.572	tr 100	9.32	109.69	110.43	110.43	110.63	0.010782	2.27	5.32	13.70	0.88
Asta	1189.572	tr 200	10.60	109.69	110.47	110.47	110.68	0.010565	2.34	5.91	14.41	0.88
Asta	1189.572	tr 500	12.37	109.69	110.53	110.53	110.74	0.010428	2.44	6.69	15.29	0.89
Asta	1182.729	tr 50	8.06	109.14	109.59	109.82	110.36	0.077999	4.10	2.20	8.08	2.15
Asta	1182.729	tr 100	9.32	109.14	109.63	109.87	110.41	0.070724	4.18	2.53	8.57	2.09
Asta	1182.729	tr 200	10.60	109.14	109.66	109.91	110.47	0.065464	4.26	2.86	9.05	2.04
Asta	1182.729	tr 500	12.37	109.14	109.71	109.97	110.54	0.059508	4.35	3.31	9.76	1.97
Asta	1159.919	tr 50	8.06	107.36	107.65	107.82	108.26	0.104847	3.60	2.51	14.66	2.33
Asta	1159.919	tr 100	9.32	107.36	107.67	107.85	108.36	0.114487	3.89	2.71	15.13	2.46
Asta	1159.919	tr 200	10.60	107.36	107.68	107.87	108.47	0.122922	4.16	2.89	15.53	2.57
Asta	1159.919	tr 500	12.37	107.36	107.70	107.92	108.60	0.130528	4.47	3.17	16.09	2.67
Asta	1150	tr 50	8.06	106.25	106.72	106.91	107.39	0.072519	4.01	2.46	10.74	2.08
Asta	1150	tr 100	9.32	106.25	106.75	106.94	107.47	0.071904	4.21	2.83	12.77	2.10
Asta	1150	tr 200	10.60	106.25	106.77	106.98	107.54	0.072391	4.40	3.17	14.20	2.13
Asta	1150	tr 500	12.37	106.25	106.80	107.01	107.63	0.072931	4.61	3.61	15.75	2.16
Asta	1100	tr 50	8.06	103.89	104.35	104.45	104.68	0.039303	3.03	3.52	16.07	1.54
Asta	1100	tr 100	9.32	103.89	104.37	104.49	104.74	0.040147	3.19	3.90	16.76	1.58
Asta	1100	tr 200	10.60	103.89	104.39	104.51	104.78	0.040429	3.31	4.28	17.43	1.60

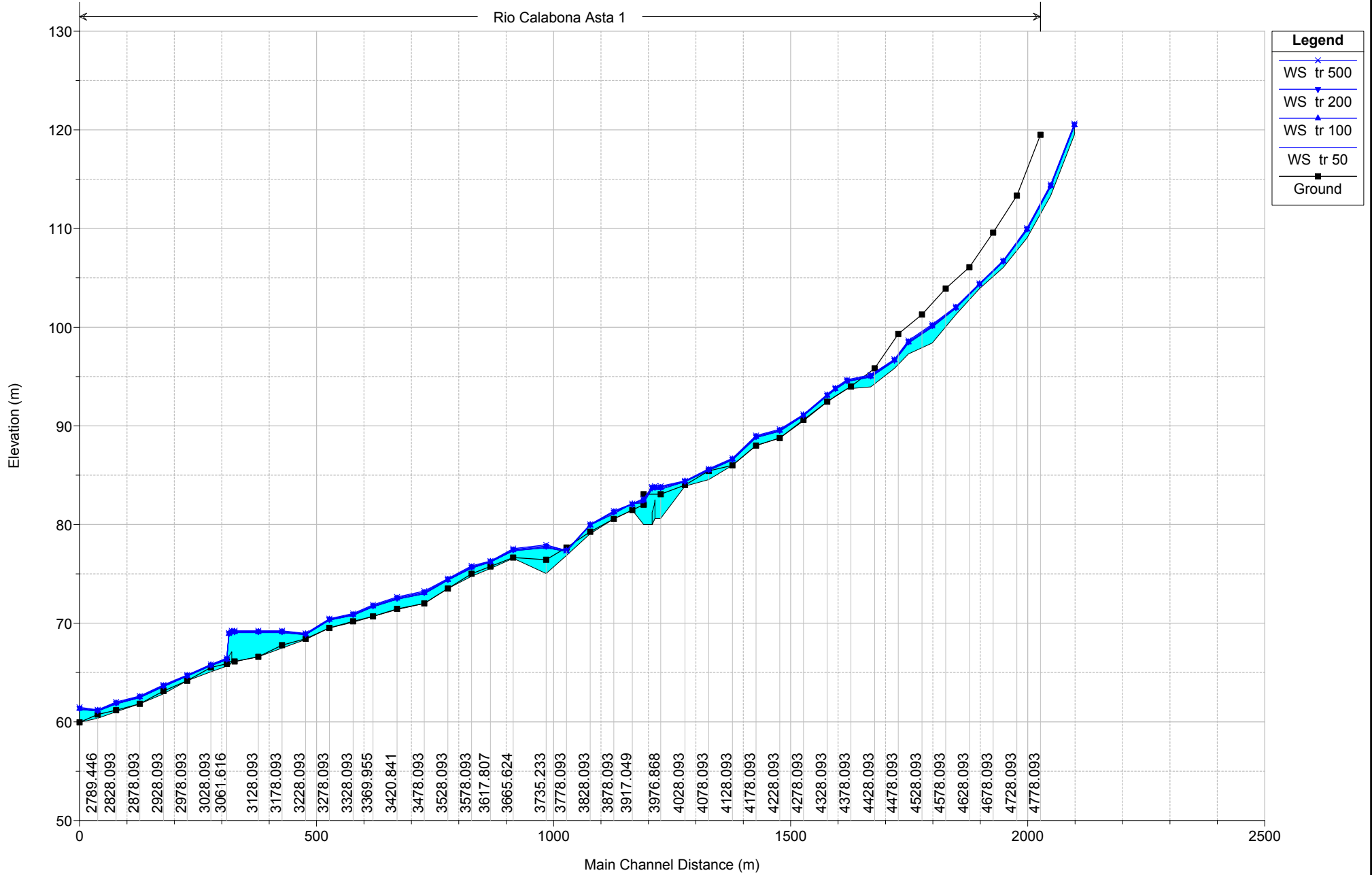
HEC-RAS Plan: 01 River: 75058 Reach: Asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	1100	tr 500	12.37	103.89	104.42	104.56	104.84	0.040664	3.47	4.80	18.30	1.62
Asta	1050	tr 50	8.06	101.76	102.21	102.33	102.58	0.044743	3.20	3.48	18.19	1.64
Asta	1050	tr 100	9.32	101.76	102.24	102.36	102.62	0.044281	3.32	3.95	19.67	1.65
Asta	1050	tr 200	10.60	101.76	102.26	102.40	102.66	0.044263	3.43	4.39	20.98	1.67
Asta	1050	tr 500	12.37	101.76	102.29	102.43	102.71	0.044424	3.58	4.98	22.60	1.69
Asta	1000	tr 50	8.06	99.64	100.00	100.09	100.27	0.046580	2.38	3.73	22.42	1.55
Asta	1000	tr 100	9.32	99.64	100.02	100.11	100.31	0.047053	2.51	4.14	23.72	1.58
Asta	1000	tr 200	10.60	99.64	100.04	100.14	100.36	0.047100	2.62	4.57	24.97	1.60
Asta	1000	tr 500	12.37	99.64	100.06	100.17	100.41	0.047006	2.76	5.14	26.57	1.61
Asta	950	tr 50	8.06	97.44	97.74	97.82	97.99	0.044332	2.51	3.85	21.06	1.54
Asta	950	tr 100	9.32	97.44	97.76	97.85	98.04	0.043946	2.63	4.30	22.11	1.56
Asta	950	tr 200	10.60	97.44	97.77	97.87	98.07	0.043931	2.74	4.72	23.07	1.57
Asta	950	tr 500	12.37	97.44	97.80	97.90	98.13	0.043979	2.88	5.29	24.29	1.59
Asta	881.3658	tr 50	8.06	95.95	96.03	96.03	96.08	0.010726	0.38	8.60	50.69	0.57
Asta	881.3658	tr 100	9.32	95.95	96.03	96.03	96.09	0.014342	0.44	8.60	50.69	0.65
Asta	881.3658	tr 200	10.60	95.95	96.03	96.03	96.11	0.018551	0.50	8.60	50.69	0.74
Asta	881.3658	tr 500	12.37	95.95	96.05	96.05	96.14	0.019650	0.62	9.36	51.66	0.80
Asta	873.9232	tr 50	8.06	94.44	95.80	95.48	95.84	0.001534	1.06	11.91	42.76	0.34
Asta	873.9232	tr 100	9.32	94.44	95.81	95.56	95.86	0.001900	1.19	12.48	45.40	0.38
Asta	873.9232	tr 200	10.60	94.44	95.83	95.62	95.89	0.002207	1.30	13.28	48.33	0.41
Asta	873.9232	tr 500	12.37	94.44	95.85	95.67	95.92	0.002549	1.42	14.53	52.10	0.45
Asta	865.0975		Culvert									
Asta	855.1509	tr 50	8.06	94.24	94.60	94.60	94.71	0.019703	1.48	5.51	26.25	1.00
Asta	855.1509	tr 100	9.32	94.24	94.62	94.62	94.74	0.018516	1.54	6.17	27.51	0.98
Asta	855.1509	tr 200	10.60	94.24	94.65	94.65	94.77	0.017641	1.59	6.82	28.75	0.97
Asta	855.1509	tr 500	12.37	94.24	94.68	94.68	94.81	0.016582	1.66	7.73	30.38	0.96
Asta	837.2585	tr 50	8.06	93.31	93.52	93.63	93.92	0.137485	2.83	2.85	21.24	2.43
Asta	837.2585	tr 100	9.32	93.31	93.53	93.65	93.99	0.140950	3.00	3.12	22.15	2.49
Asta	837.2585	tr 200	10.60	93.31	93.54	93.68	94.05	0.144413	3.16	3.38	22.99	2.54
Asta	837.2585	tr 500	12.37	93.31	93.56	93.70	94.11	0.141504	3.30	3.80	24.27	2.55
Asta	800.0001	tr 50	8.06	91.71	92.13	92.14	92.26	0.020316	1.60	5.13	23.30	1.03
Asta	800.0001	tr 100	9.32	91.71	92.15	92.17	92.30	0.020376	1.69	5.64	24.38	1.04
Asta	800.0001	tr 200	10.60	91.71	92.17	92.19	92.33	0.020459	1.78	6.14	25.39	1.06
Asta	800.0001	tr 500	12.37	91.71	92.20	92.23	92.38	0.020794	1.89	6.79	26.64	1.08
Asta	749.9999	tr 50	8.06	90.28	90.62	90.69	90.88	0.038806	2.28	3.63	16.34	1.43
Asta	749.9999	tr 100	9.32	90.28	90.64	90.73	90.93	0.037885	2.40	4.04	16.96	1.44
Asta	749.9999	tr 200	10.60	90.28	90.66	90.76	90.97	0.036914	2.49	4.45	17.55	1.44
Asta	749.9999	tr 500	12.37	90.28	90.70	90.80	91.03	0.035363	2.61	5.01	18.36	1.43
Asta	700.0001	tr 50	8.06	88.49	88.85	88.92	89.09	0.032766	2.33	3.88	17.23	1.35
Asta	700.0001	tr 100	9.32	88.49	88.87	88.95	89.14	0.033602	2.47	4.25	17.75	1.38
Asta	700.0001	tr 200	10.60	88.49	88.89	88.98	89.19	0.034438	2.60	4.62	18.24	1.42
Asta	700.0001	tr 500	12.37	88.49	88.91	89.02	89.26	0.035748	2.77	5.08	18.84	1.46
Asta	650	tr 50	8.06	87.04	87.53	87.58	87.75	0.022148	2.12	4.00	14.22	1.14
Asta	650	tr 100	9.32	87.04	87.56	87.62	87.80	0.021573	2.22	4.47	15.02	1.14
Asta	650	tr 200	10.60	87.04	87.59	87.65	87.85	0.021068	2.31	4.95	15.77	1.14
Asta	650	tr 500	12.37	87.04	87.63	87.70	87.91	0.020412	2.41	5.60	16.75	1.14
Asta	600	tr 50	8.06	85.72	86.01	86.09	86.26	0.042374	2.35	3.87	20.54	1.49
Asta	600	tr 100	9.32	85.72	86.03	86.11	86.31	0.044134	2.51	4.22	21.09	1.54
Asta	600	tr 200	10.60	85.72	86.04	86.14	86.35	0.045645	2.65	4.57	21.62	1.58
Asta	600	tr 500	12.37	85.72	86.06	86.17	86.41	0.047621	2.83	5.01	22.28	1.63
Asta	550.0001	tr 50	8.06	84.76	85.23	85.23	85.36	0.019220	1.65	5.14	21.76	1.02
Asta	550.0001	tr 100	9.32	84.76	85.26	85.26	85.40	0.018227	1.72	5.79	23.08	1.01
Asta	550.0001	tr 200	10.60	84.76	85.29	85.29	85.43	0.017364	1.78	6.45	24.31	1.00
Asta	550.0001	tr 500	12.37	84.76	85.32	85.32	85.48	0.016431	1.86	7.34	25.83	0.99
Asta	500	tr 50	8.06	84.00	84.75	84.52	84.80	0.002263	1.04	9.60	22.79	0.41
Asta	500	tr 100	9.32	84.00	84.80	84.56	84.84	0.002312	1.10	10.61	23.74	0.41
Asta	500	tr 200	10.60	84.00	84.84	84.59	84.89	0.002354	1.15	11.59	24.61	0.42
Asta	500	tr 500	12.37	84.00	84.89	84.64	84.95	0.002407	1.21	12.88	25.72	0.43
Asta	488.6261	tr 50	8.06	84.00	84.53		84.62	0.006412	1.39	6.72	19.97	0.64
Asta	488.6261	tr 100	9.32	84.00	84.56		84.66	0.006610	1.47	7.38	20.74	0.66
Asta	488.6261	tr 200	10.60	84.00	84.59	84.51	84.70	0.006866	1.56	7.98	21.42	0.68
Asta	488.6261	tr 500	12.37	84.00	84.63	84.55	84.75	0.007042	1.66	8.84	22.36	0.70
Asta	476.2538	tr 50	8.06	83.93	84.36	84.36	84.50	0.014486	1.83	5.26	19.57	0.94
Asta	476.2538	tr 100	9.32	83.93	84.39	84.39	84.54	0.014099	1.90	5.90	20.54	0.94
Asta	476.2538	tr 200	10.60	83.93	84.42	84.42	84.58	0.013553	1.96	6.57	21.52	0.93
Asta	476.2538	tr 500	12.37	83.93	84.46	84.46	84.63	0.013565	2.06	7.35	22.61	0.94

HEC-RAS Plan: 01 River: 75058 Reach: Asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	463.34	tr 50	8.06	83.17	83.49	83.64	84.04	0.119206	3.43	2.55	15.65	2.42
Asta	463.34	tr 100	9.32	83.17	83.51	83.67	84.09	0.111851	3.54	2.88	16.57	2.38
Asta	463.34	tr 200	10.60	83.17	83.53	83.70	84.15	0.107341	3.66	3.20	17.41	2.36
Asta	463.34	tr 500	12.37	83.17	83.55	83.70	84.20	0.099482	3.77	3.67	18.57	2.31
Asta	450	tr 50	8.06	82.04	82.33	82.40	82.58	0.089628	2.58	4.17	48.56	2.02
Asta	450	tr 100	9.32	82.04	82.34	82.42	82.62	0.096859	2.76	4.51	49.40	2.12
Asta	450	tr 200	10.60	82.04	82.34	82.42	82.66	0.102658	2.91	4.85	50.02	2.19
Asta	450	tr 500	12.37	82.04	82.35	82.44	82.71	0.112457	3.14	5.23	50.42	2.31
Asta	400	tr 50	8.06	79.49	79.79	79.84	79.97	0.034661	2.02	4.54	26.14	1.33
Asta	400	tr 100	9.32	79.49	79.81	79.87	80.00	0.033088	2.10	5.12	27.45	1.32
Asta	400	tr 200	10.60	79.49	79.83	79.89	80.03	0.032028	2.17	5.68	28.72	1.32
Asta	400	tr 500	12.37	79.49	79.86	79.92	80.07	0.030621	2.25	6.46	30.38	1.31
Asta	350	tr 50	8.06	77.15	77.66	77.81	78.11	0.038555	3.30	2.98	10.25	1.57
Asta	350	tr 100	9.32	77.15	77.70	77.85	78.18	0.038729	3.46	3.32	10.78	1.59
Asta	350	tr 200	10.60	77.15	77.73	77.89	78.24	0.038550	3.60	3.66	11.31	1.60
Asta	350	tr 500	12.37	77.15	77.77	77.94	78.32	0.038405	3.77	4.12	11.98	1.62
Asta	300	tr 50	8.06	75.11	75.46	75.59	75.86	0.052324	2.90	3.03	13.62	1.70
Asta	300	tr 100	9.32	75.11	75.49	75.63	75.93	0.052398	3.05	3.37	14.25	1.72
Asta	300	tr 200	10.60	75.11	75.51	75.66	75.99	0.052878	3.20	3.68	14.82	1.75
Asta	300	tr 500	12.37	75.11	75.54	75.70	76.07	0.053339	3.39	4.10	15.55	1.78
Asta	250	tr 50	8.06	72.21	72.66	72.83	73.20	0.053472	3.60	2.64	9.39	1.81
Asta	250	tr 100	9.32	72.21	72.69	72.87	73.28	0.052910	3.77	2.94	9.70	1.82
Asta	250	tr 200	10.60	72.21	72.72	72.92	73.35	0.052127	3.91	3.24	10.00	1.83
Asta	250	tr 500	12.37	72.21	72.76	72.97	73.44	0.051257	4.09	3.63	10.39	1.84
Asta	200.0001	tr 50	8.06	69.48	69.92	70.09	70.46	0.056298	3.65	2.71	10.88	1.85
Asta	200.0001	tr 100	9.32	69.48	69.95	70.13	70.54	0.056896	3.84	3.03	11.64	1.88
Asta	200.0001	tr 200	10.60	69.48	69.97	70.17	70.61	0.057757	4.02	3.32	12.27	1.91
Asta	200.0001	tr 500	12.37	69.48	70.01	70.22	70.70	0.058740	4.24	3.72	13.06	1.95
Asta	150	tr 50	8.06	67.58	68.23	68.06	68.28	0.003152	1.17	8.96	23.04	0.47
Asta	150	tr 100	9.32	67.58	68.27	68.09	68.33	0.003169	1.22	9.88	23.52	0.48
Asta	150	tr 200	10.60	67.58	68.31	68.12	68.37	0.003210	1.28	10.73	23.96	0.49
Asta	150	tr 500	12.37	67.58	68.36	68.17	68.42	0.003236	1.34	11.89	24.54	0.49
Asta	141.5858	tr 50	8.06	67.35	67.85	67.85	67.99	0.013231	2.04	5.31	18.84	0.93
Asta	141.5858	tr 100	9.32	67.35	67.88	67.88	68.03	0.013027	2.11	5.96	19.92	0.93
Asta	141.5858	tr 200	10.60	67.35	67.91	67.91	68.07	0.012729	2.17	6.63	20.97	0.93
Asta	141.5858	tr 500	12.37	67.35	67.95	67.95	68.12	0.012842	2.28	7.42	22.16	0.95
Asta	131.5443	tr 50	8.06	67.06	67.45	67.55	67.76	0.039594	2.65	3.52	15.85	1.50
Asta	131.5443	tr 100	9.32	67.06	67.48	67.58	67.81	0.038147	2.75	3.96	16.68	1.49
Asta	131.5443	tr 200	10.60	67.06	67.50	67.61	67.85	0.037021	2.84	4.40	17.45	1.49
Asta	131.5443	tr 500	12.37	67.06	67.54	67.65	67.90	0.035170	2.94	5.02	18.50	1.47
Asta	115.6894	tr 50	8.06	66.68	67.18	67.19	67.35	0.015263	1.89	4.68	16.14	0.96
Asta	115.6894	tr 100	9.32	66.68	67.21	67.23	67.40	0.015473	2.00	5.18	16.89	0.98
Asta	115.6894	tr 200	10.60	66.68	67.24	67.26	67.44	0.015812	2.11	5.64	17.57	1.00
Asta	115.6894	tr 500	12.37	66.68	67.27	67.31	67.50	0.016015	2.23	6.28	18.46	1.02
Asta	99.99996	tr 50	8.06	63.05	63.48	64.07	66.57	0.092881	7.79	1.04	2.67	3.99
Asta	99.99996	tr 100	9.32	63.05	63.54	64.16	66.63	0.083910	7.79	1.20	2.74	3.76
Asta	99.99996	tr 200	10.60	63.05	63.60	64.25	66.69	0.076782	7.78	1.36	2.82	3.57
Asta	99.99996	tr 500	12.37	63.05	65.38	64.37	65.49	0.000977	1.47	8.42	5.14	0.37
Asta	86.21117		Culvert									
Asta	77.12289	tr 50	8.06	62.55	63.08	63.70	65.20	0.186025	6.45	1.25	2.64	3.00
Asta	77.12289	tr 100	9.32	62.55	63.16	63.81	65.23	0.158454	6.38	1.46	2.72	2.78
Asta	77.12289	tr 200	10.60	62.55	63.24	63.91	65.24	0.134713	6.27	1.69	2.81	2.58
Asta	77.12289	tr 500	12.37	62.55	63.58	63.98	64.63	0.047803	4.56	2.78	4.62	1.56
Asta	61.55157	tr 50	8.06	62.23	62.62	62.78	63.12	0.064411	3.57	2.73	11.54	1.94
Asta	61.55157	tr 100	9.32	62.23	62.64	62.81	63.22	0.069424	3.83	2.95	11.82	2.03
Asta	61.55157	tr 200	10.60	62.23	62.65	62.85	63.31	0.074544	4.09	3.15	12.07	2.12
Asta	61.55157	tr 500	12.37	62.23	62.65	62.89	63.54	0.100072	4.75	3.16	12.09	2.46
Asta	48.60497	tr 50	8.06	61.23	61.62	61.81	62.31	0.059122	3.68	2.19	10.17	2.51
Asta	48.60497	tr 100	9.32	61.23	61.64	61.85	62.38	0.057488	3.82	2.45	10.72	2.49
Asta	48.60497	tr 200	10.60	61.23	61.66	61.89	62.46	0.056321	3.96	2.69	11.22	2.47
Asta	48.60497	tr 500	12.37	61.23	61.69	61.94	62.58	0.056836	4.20	2.99	11.79	2.50

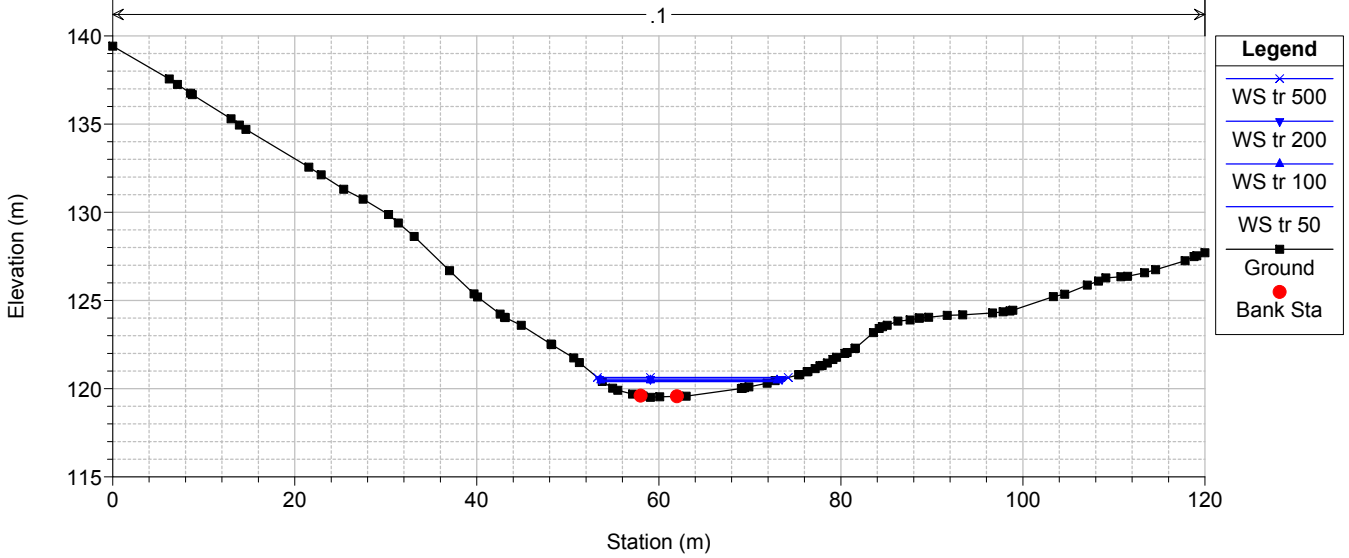
Rio Calabona Asta 1



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

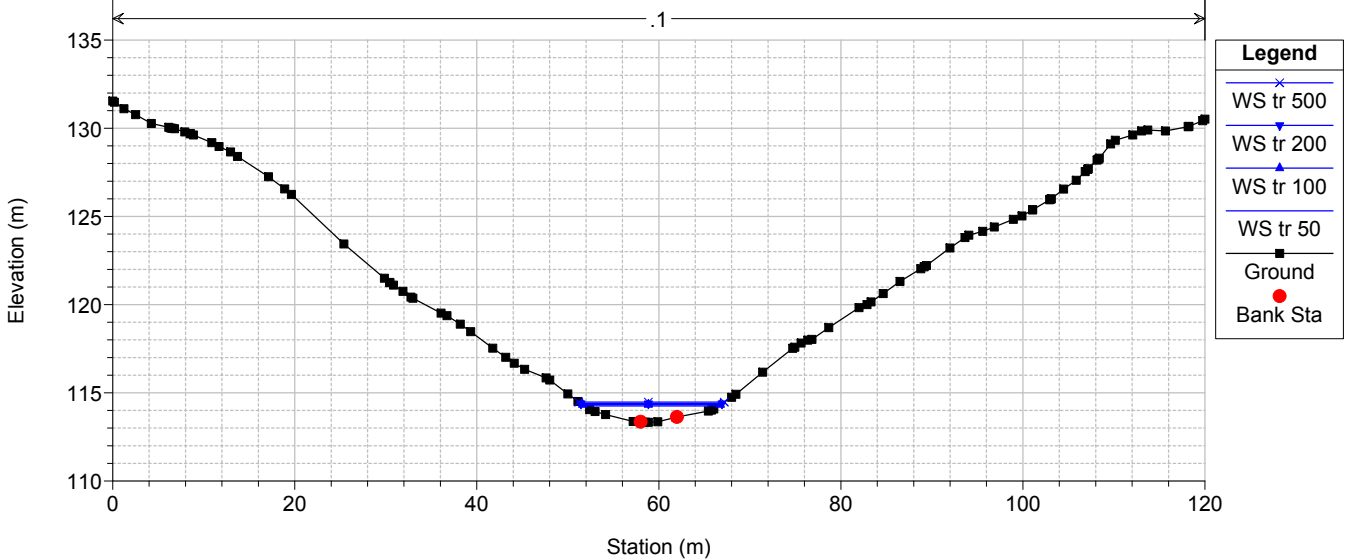
River = Rio Calabona Reach = Asta 1 RS = 4778.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

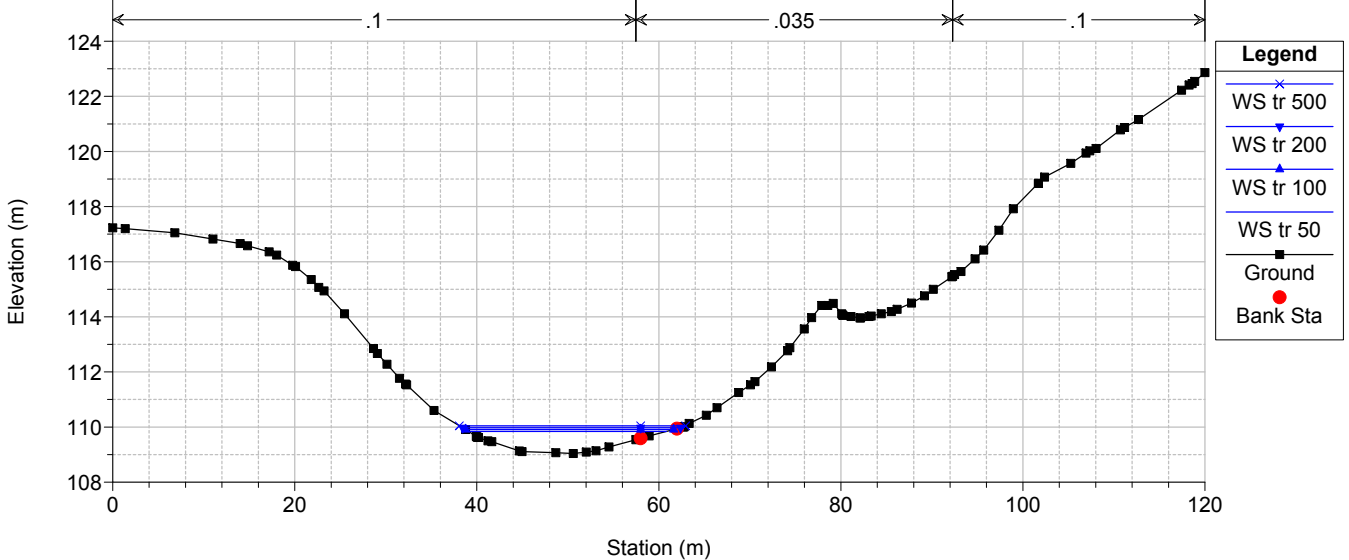
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

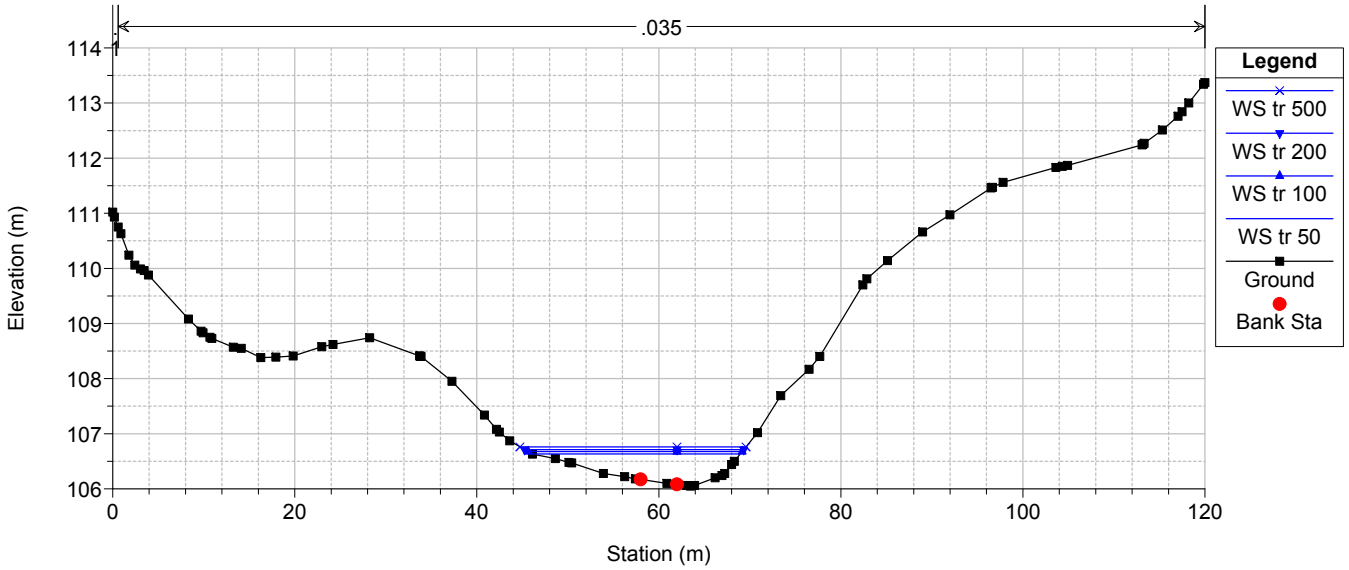
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

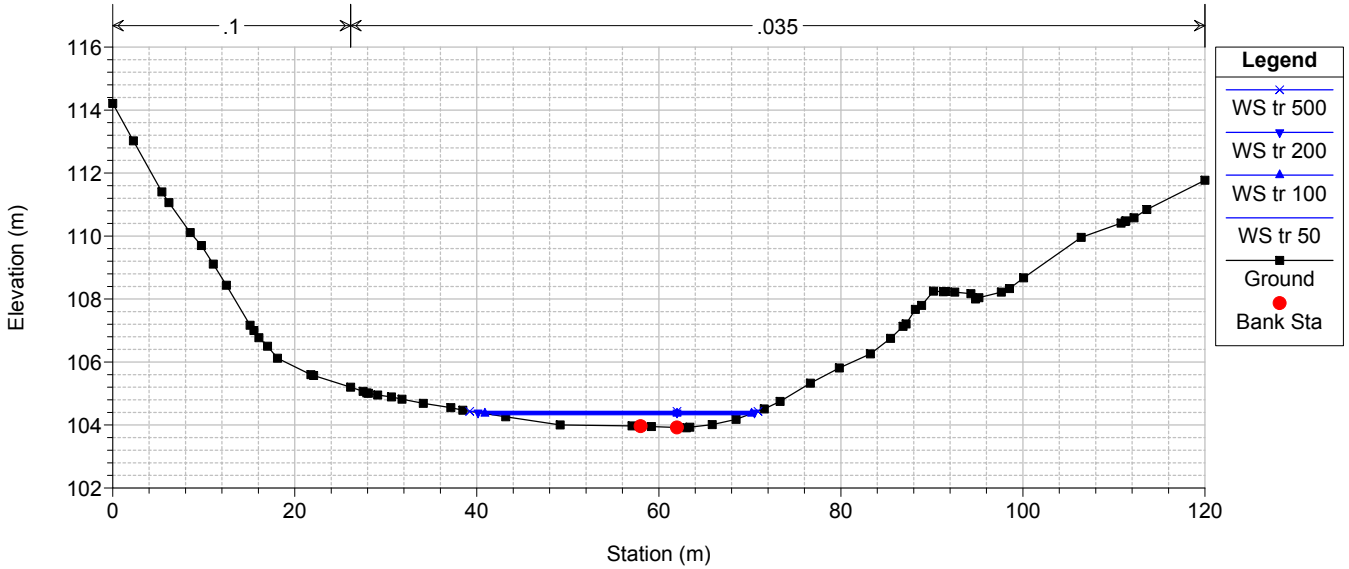
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

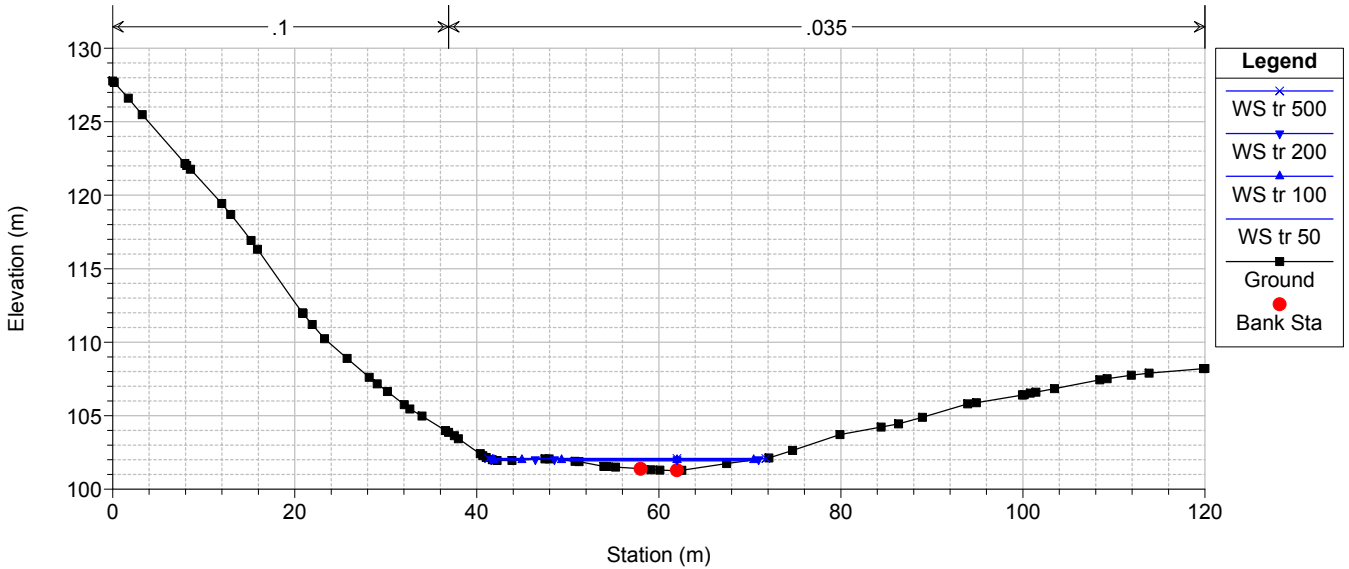
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

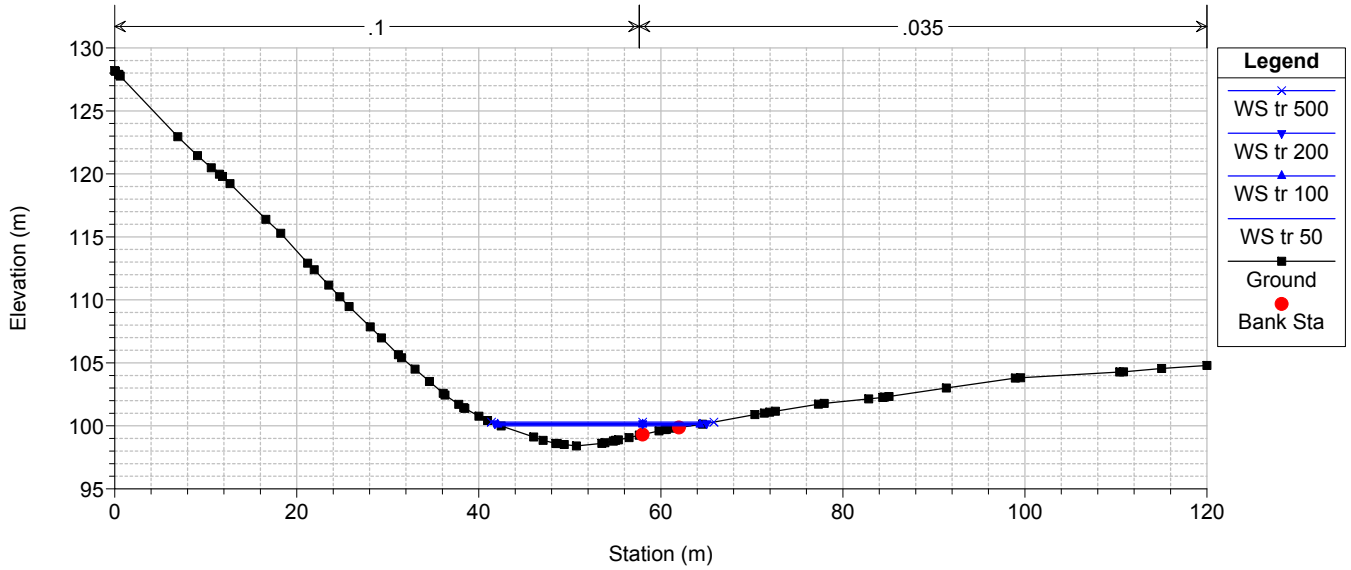
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

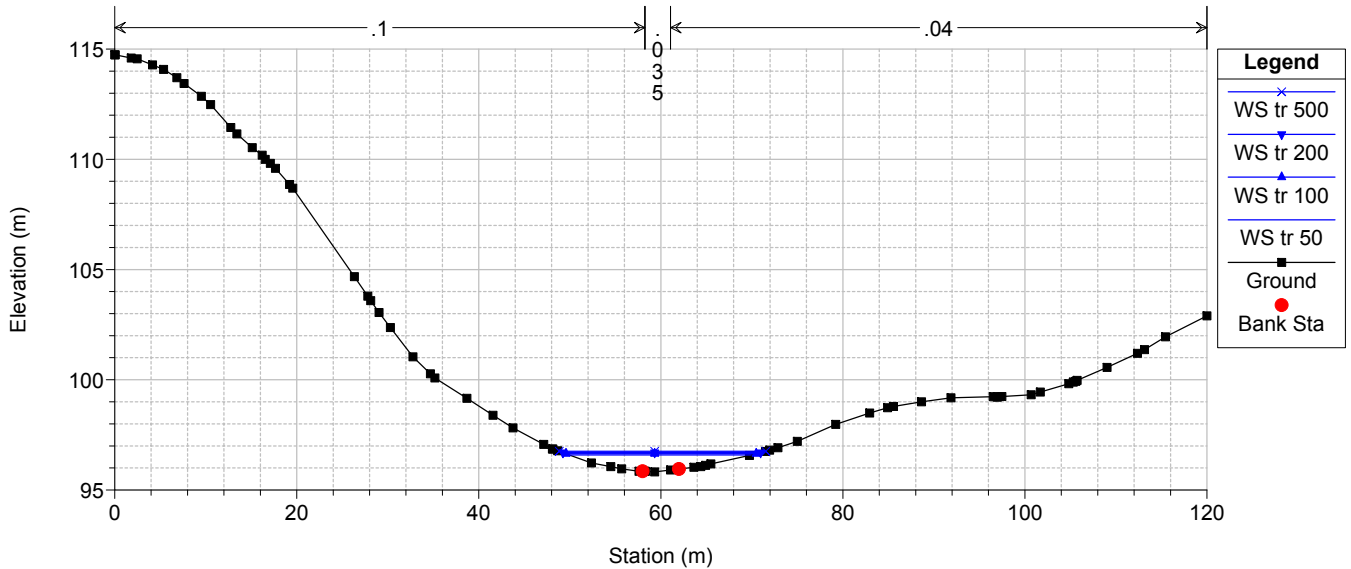
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

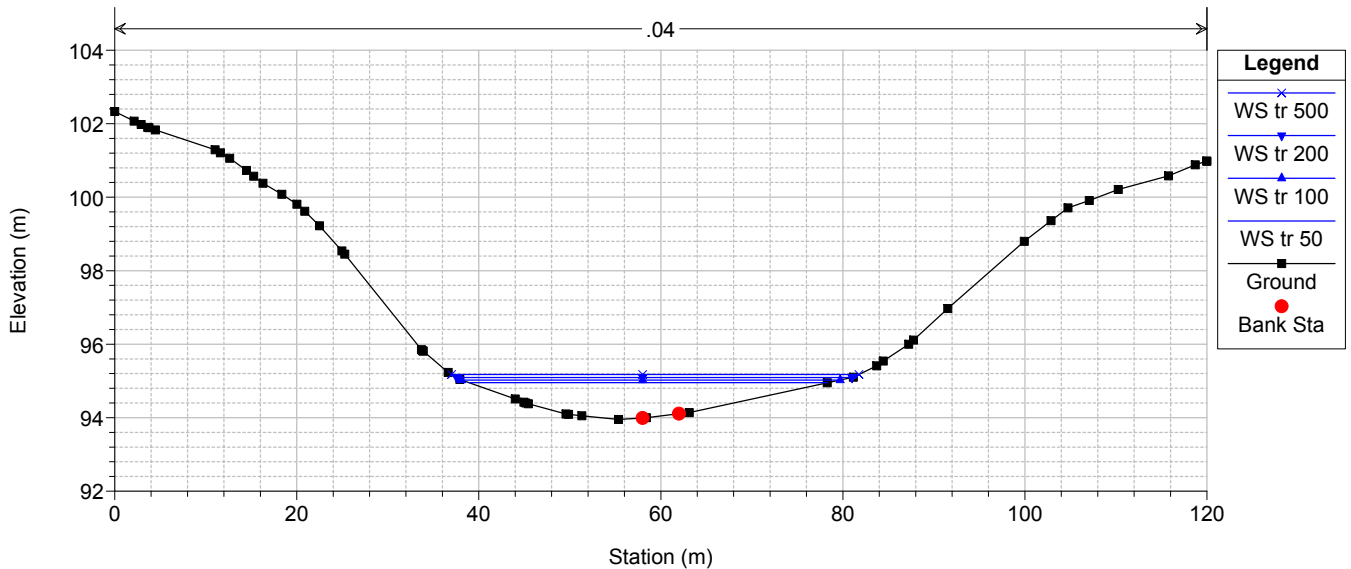
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

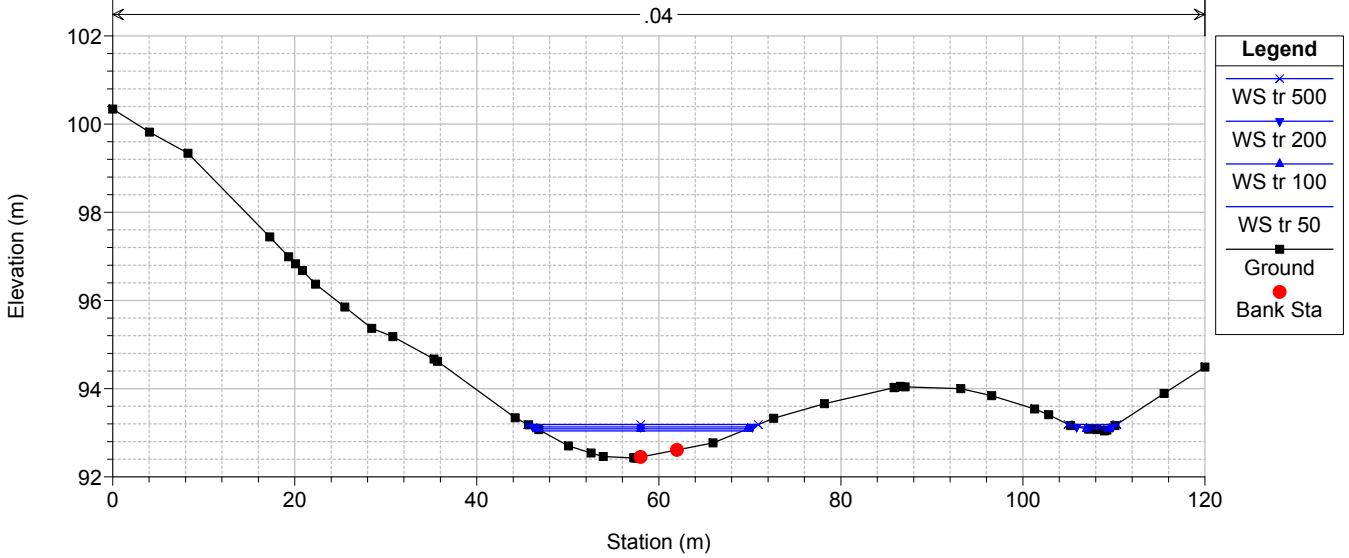
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

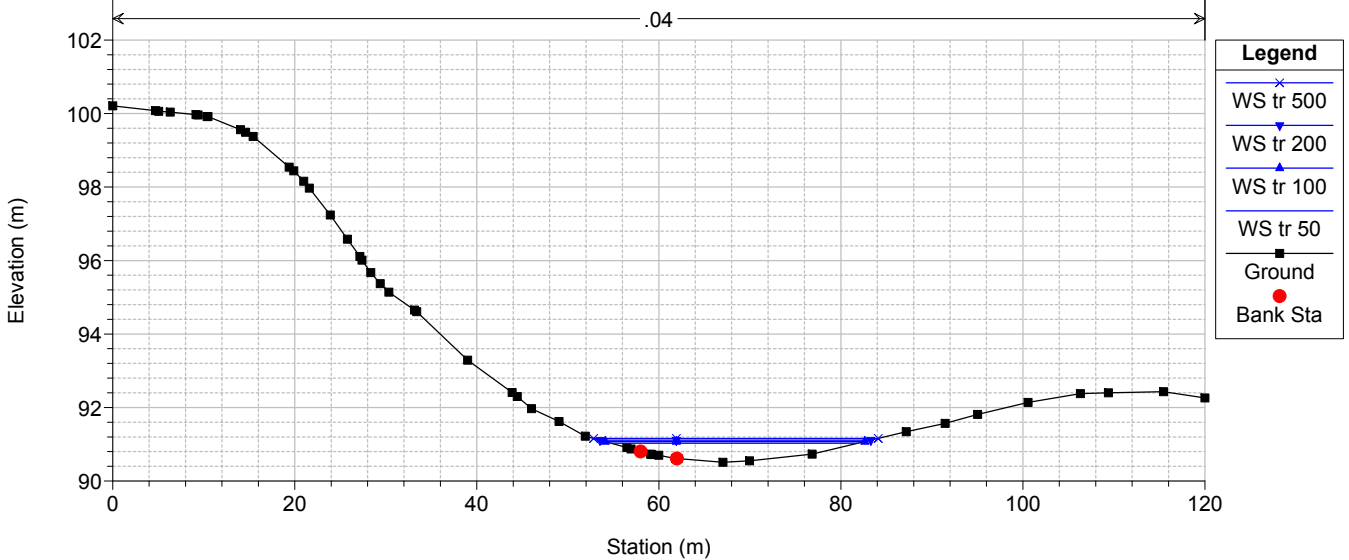
River = Rio Calabona Reach = Asta 1 RS = 4328.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

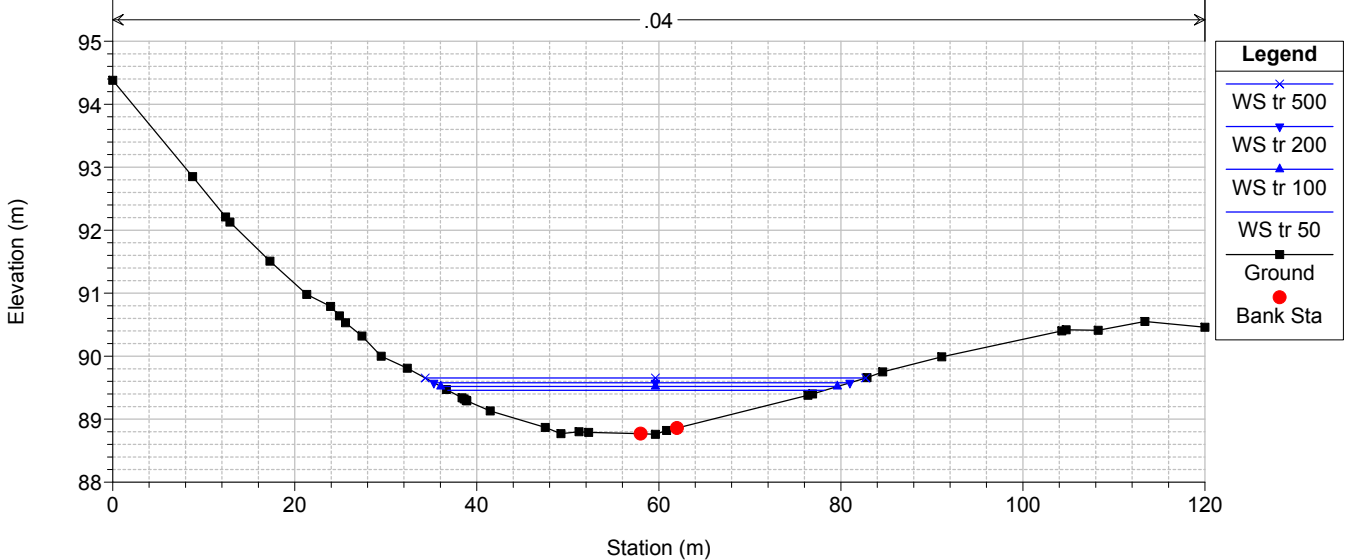
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

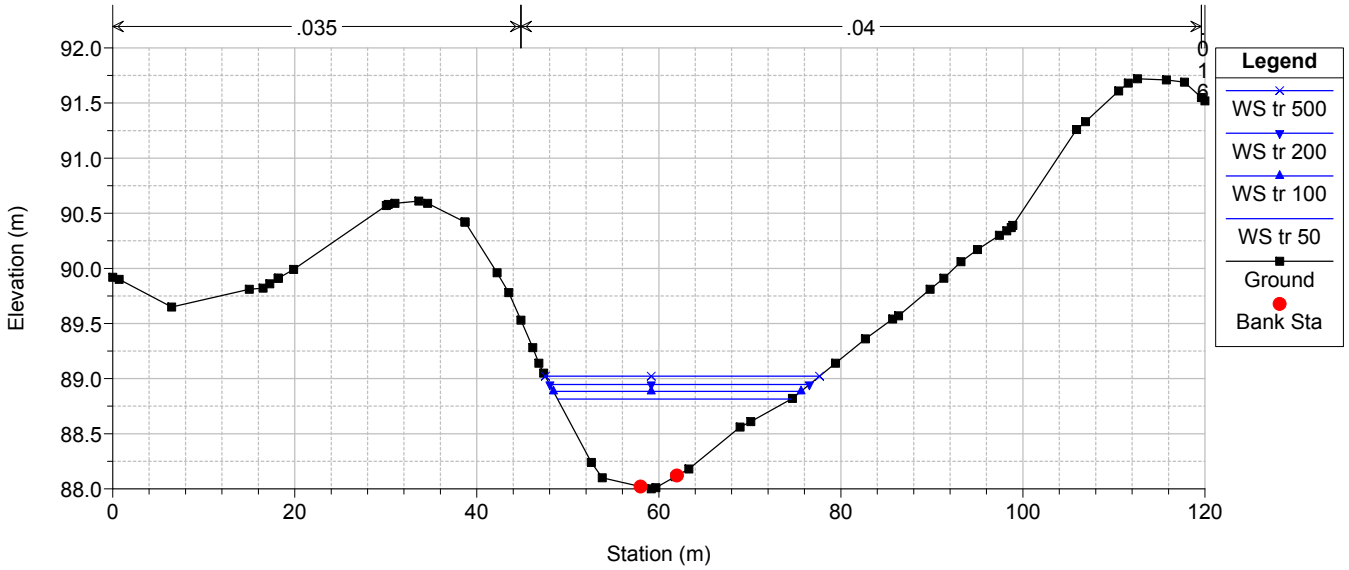
River = Rio Calabona Reach = Asta 1 RS = 4228.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

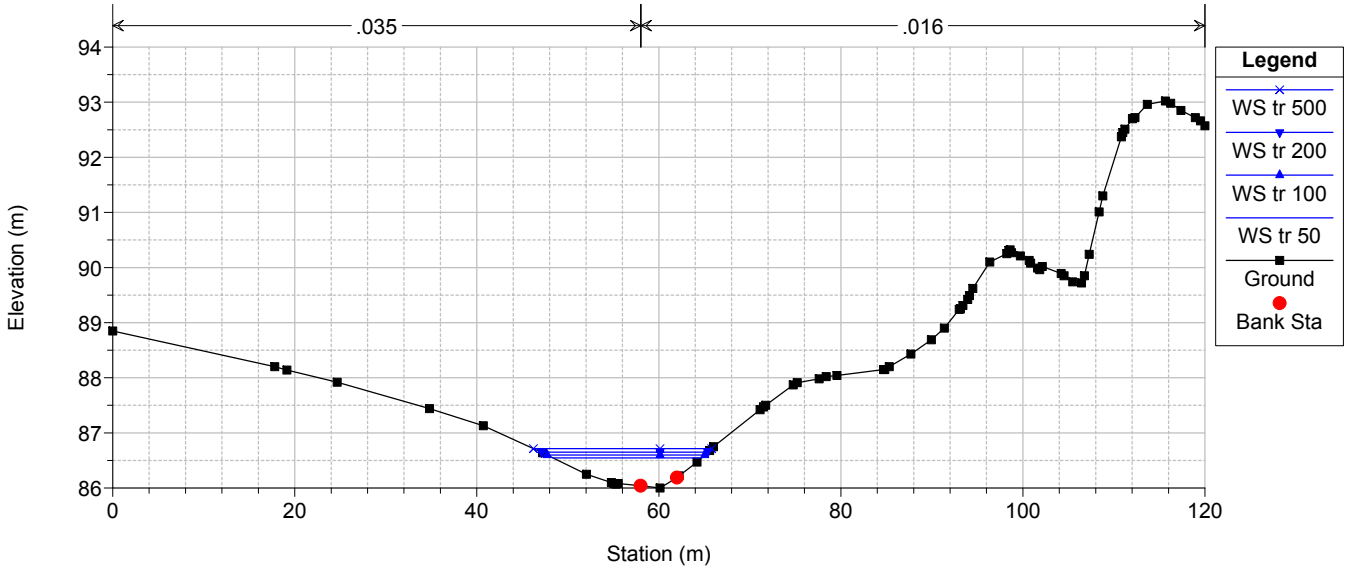
River = Rio Calabona Reach = Asta 1 RS = 4178.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

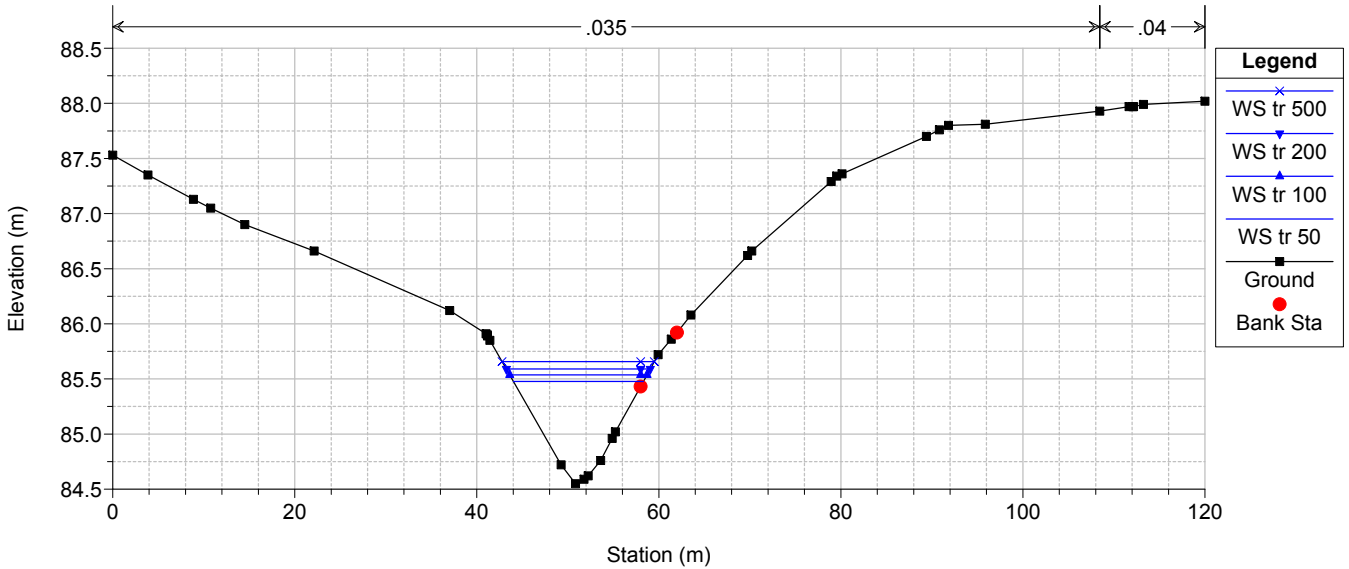
River = Rio Calabona Reach = Asta 1 RS = 4128.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

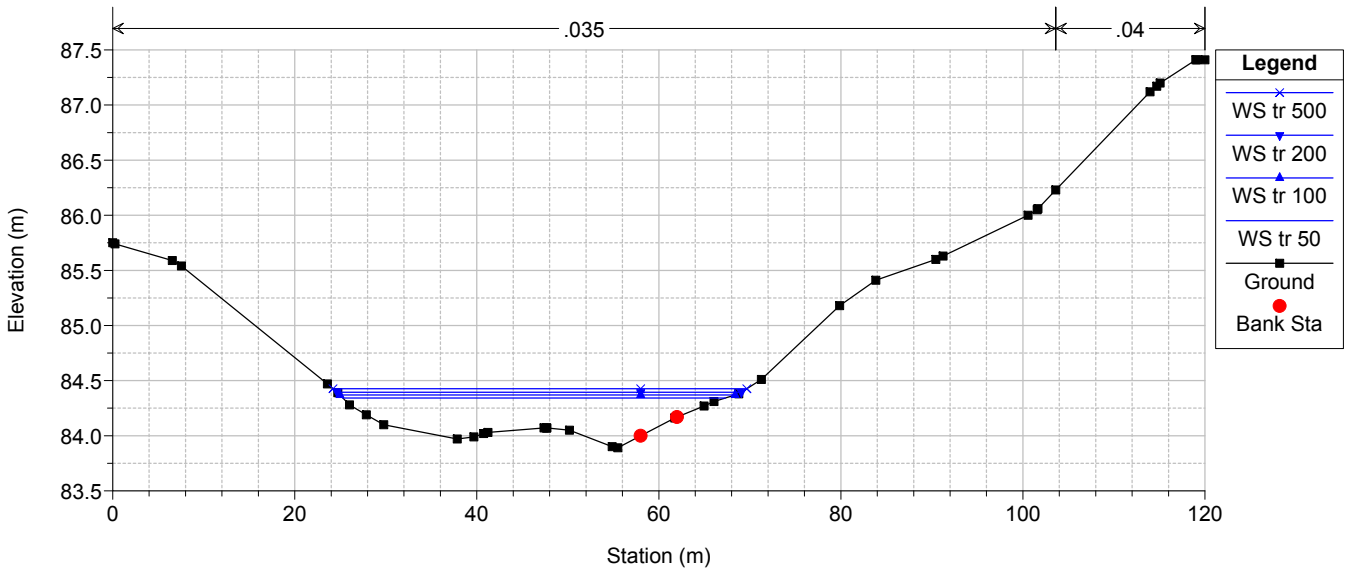
River = Rio Calabona Reach = Asta 1 RS = 4078.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

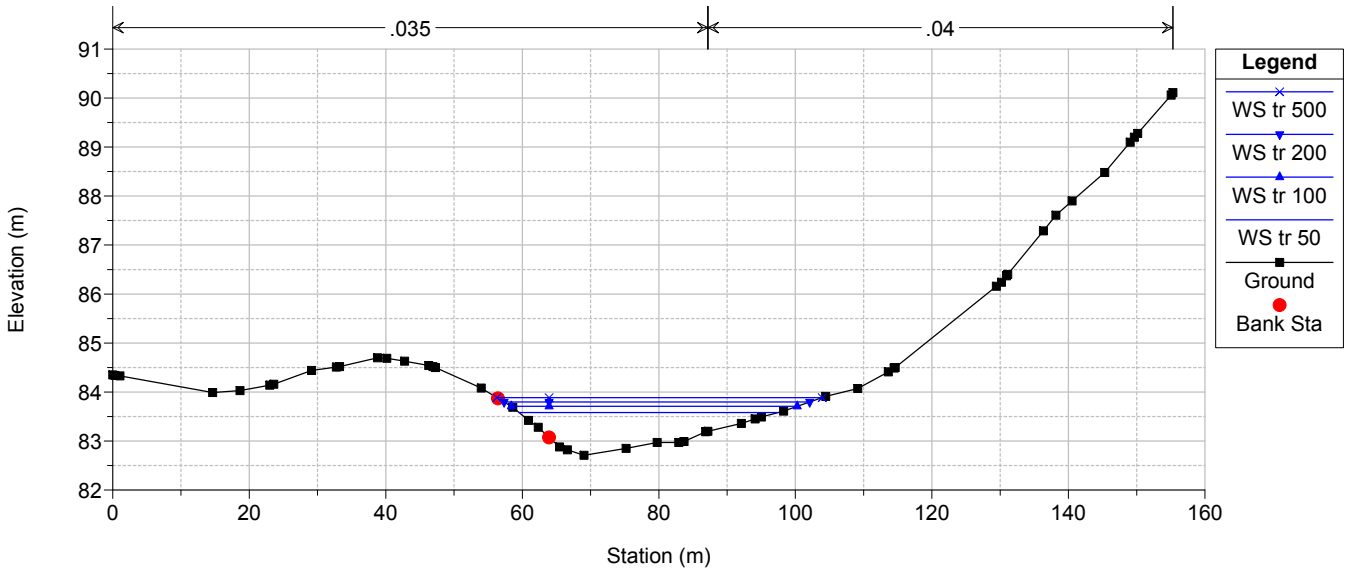
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calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

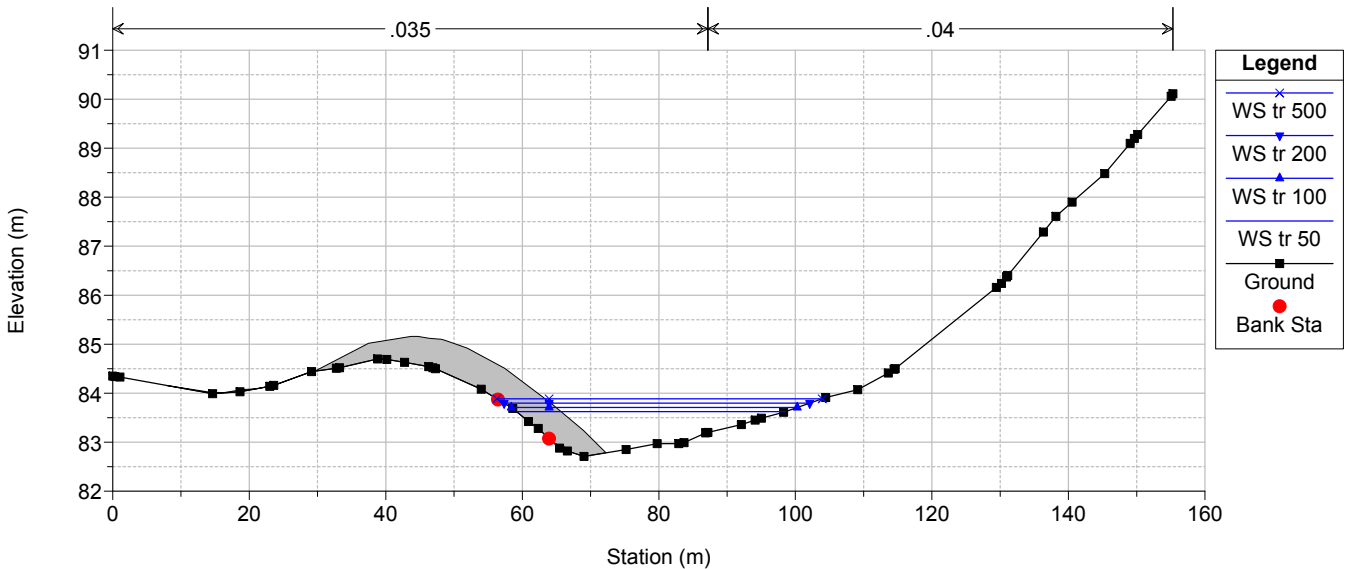
River = Rio Calabona Reach = Asta 1 RS = 3976.868 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

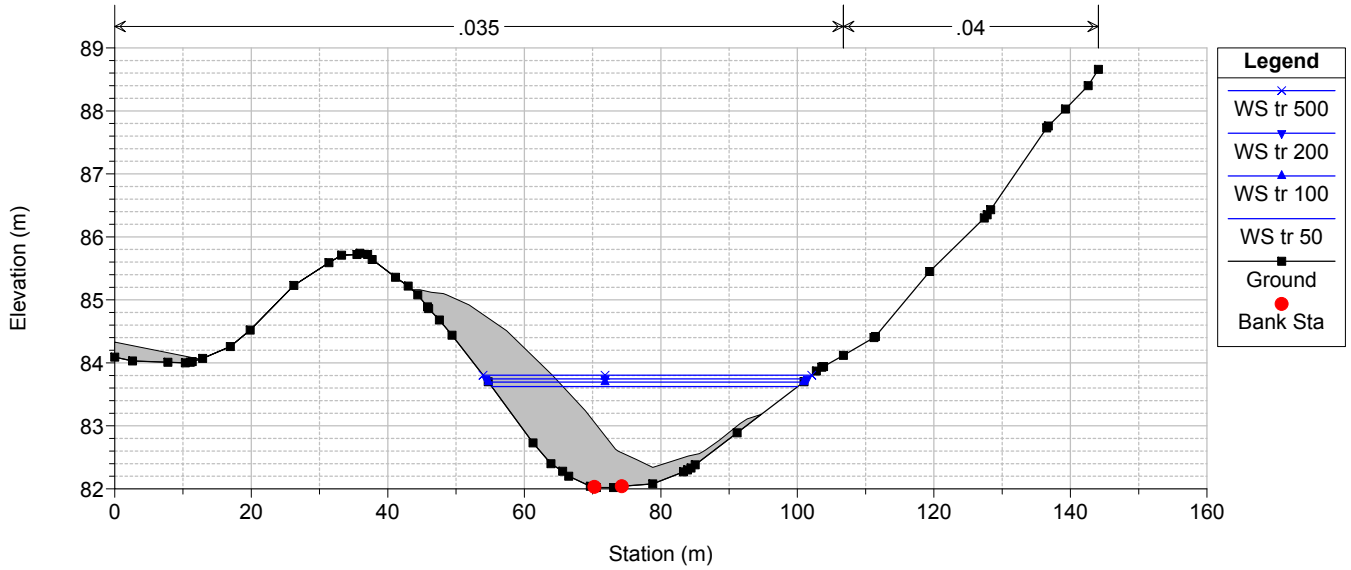
River = Rio Calabona Reach = Asta 1 RS = 3950.562 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

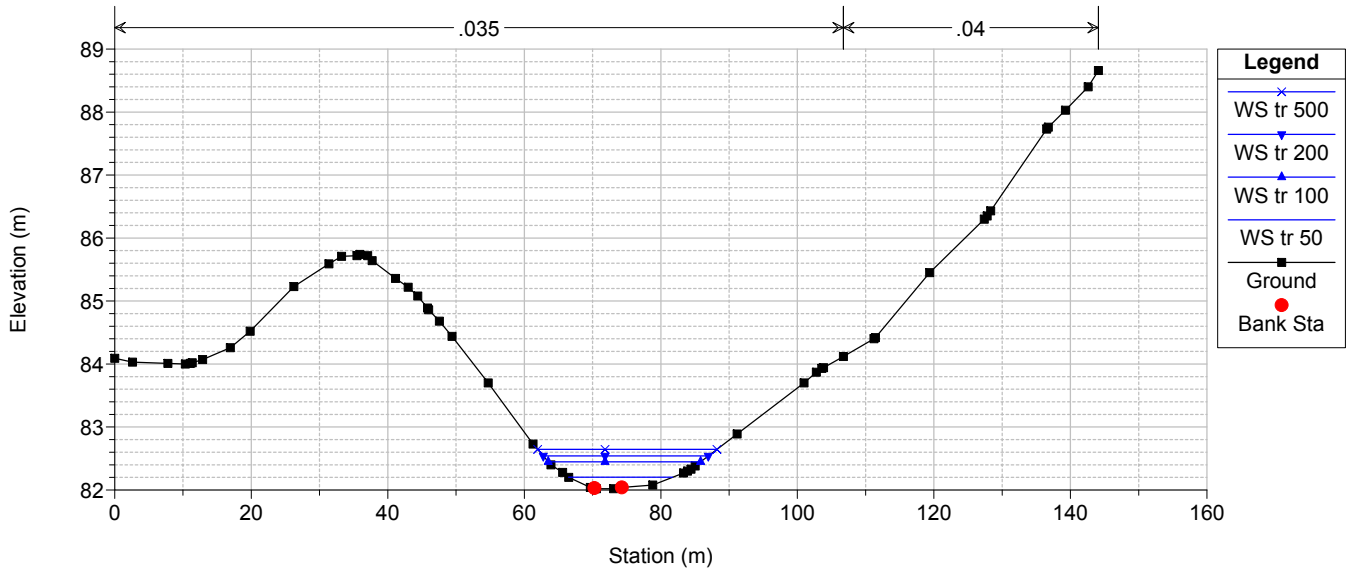
River = Rio Calabona Reach = Asta 1 RS = 3950.562 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

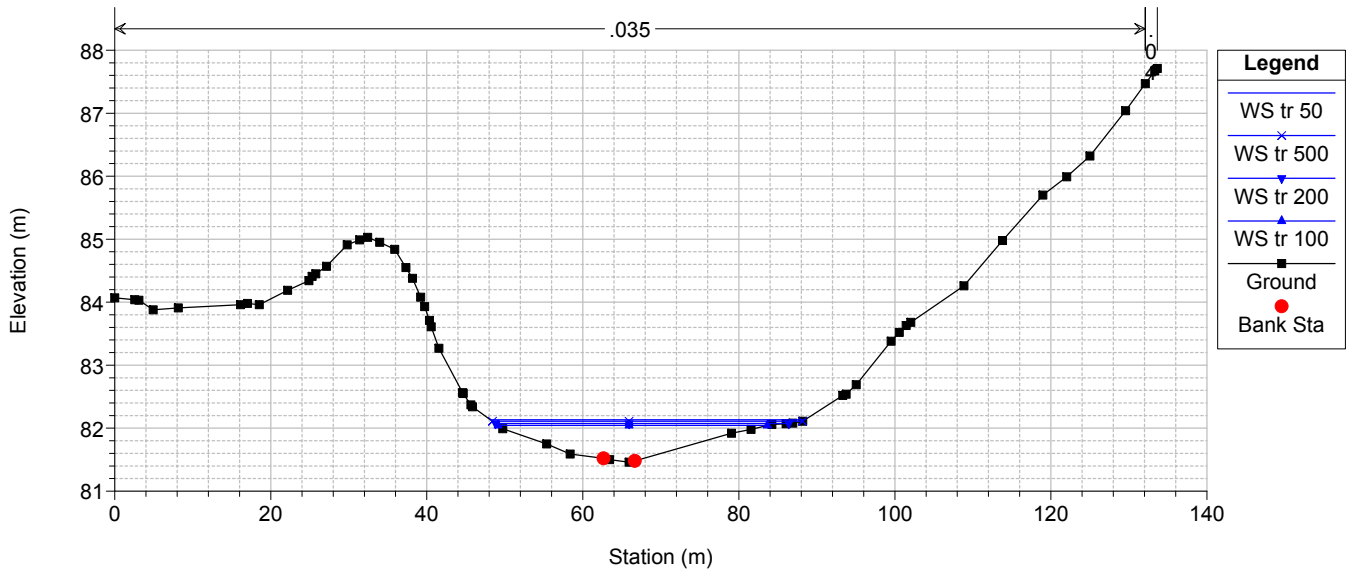
River = Rio Calabona Reach = Asta 1 RS = 3940.943 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

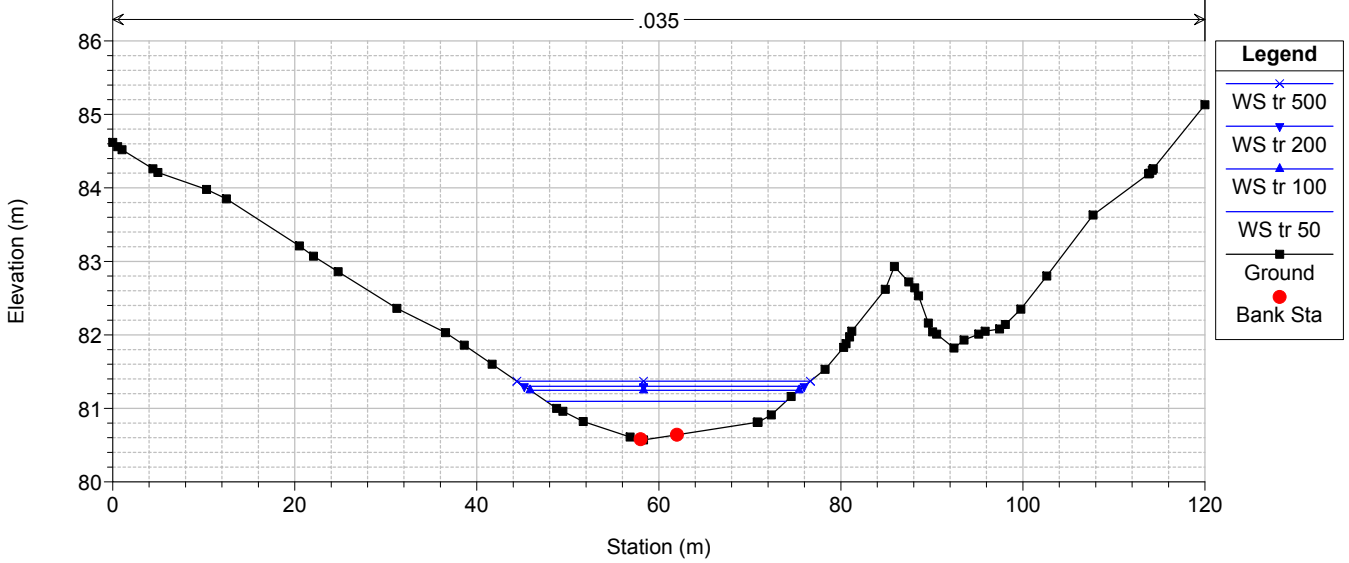
River = Rio Calabona Reach = Asta 1 RS = 3917.049 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

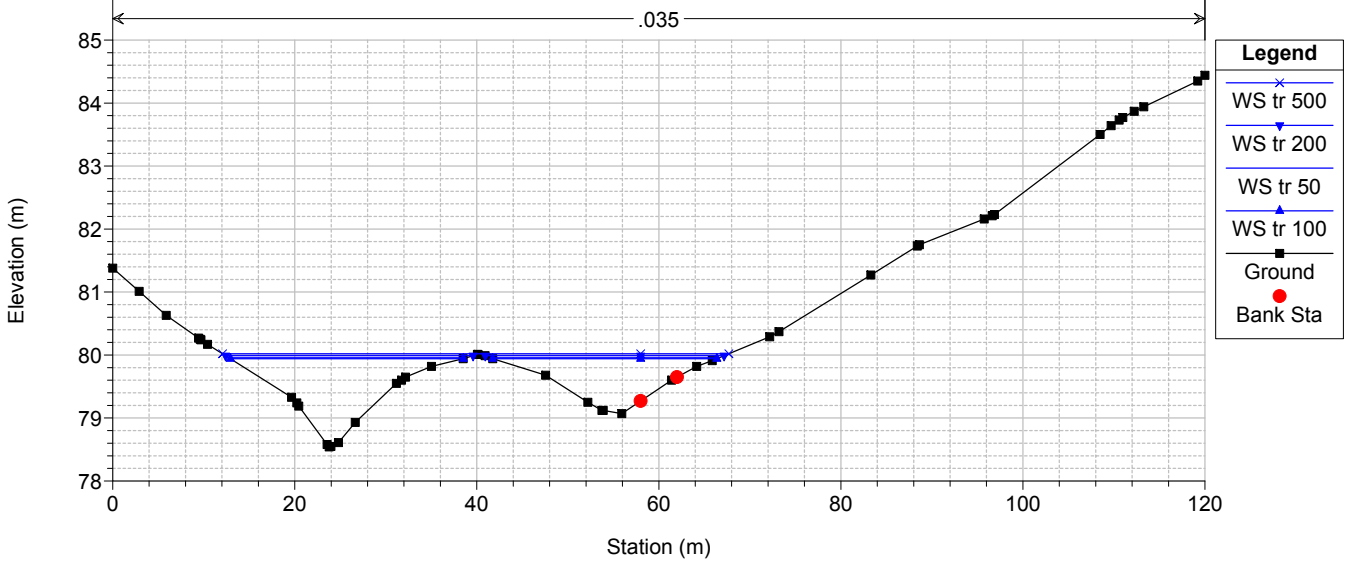
River = Rio Calabona Reach = Asta 1 RS = 3878.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

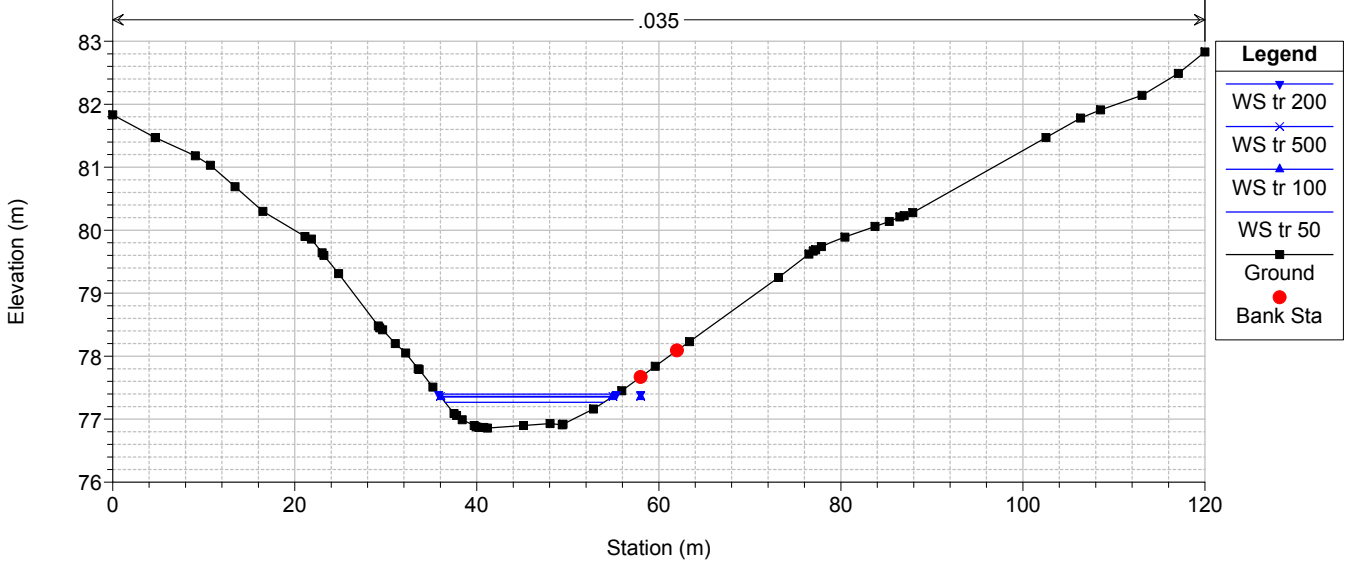
River = Rio Calabona Reach = Asta 1 RS = 3828.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

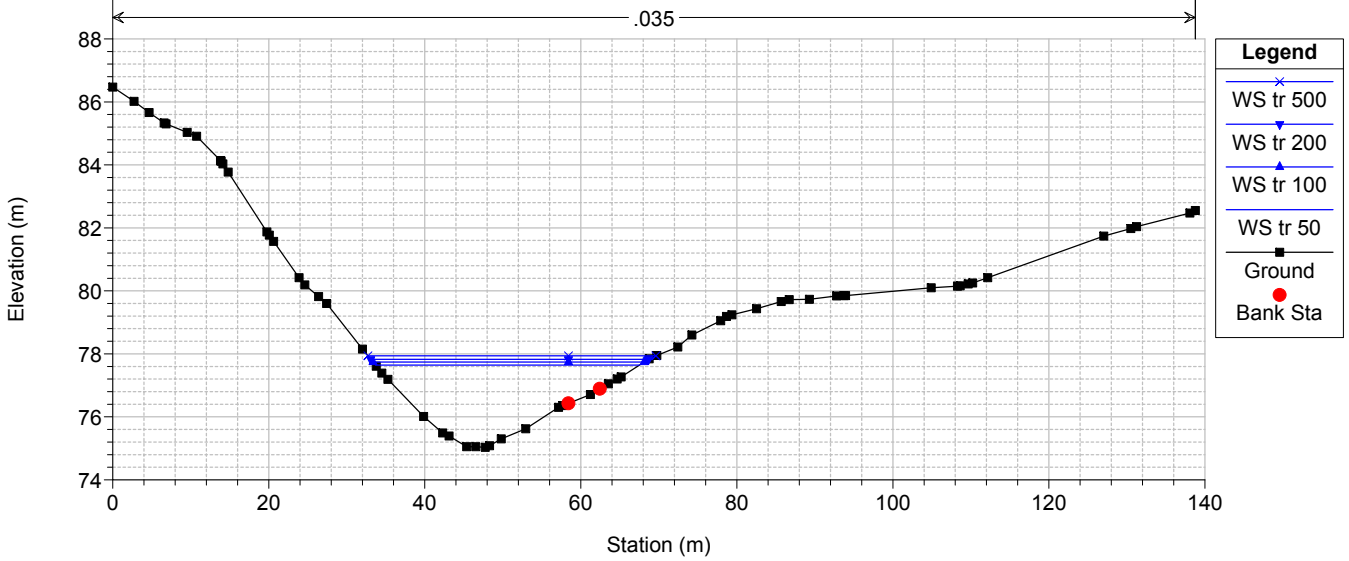
River = Rio Calabona Reach = Asta 1 RS = 3778.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

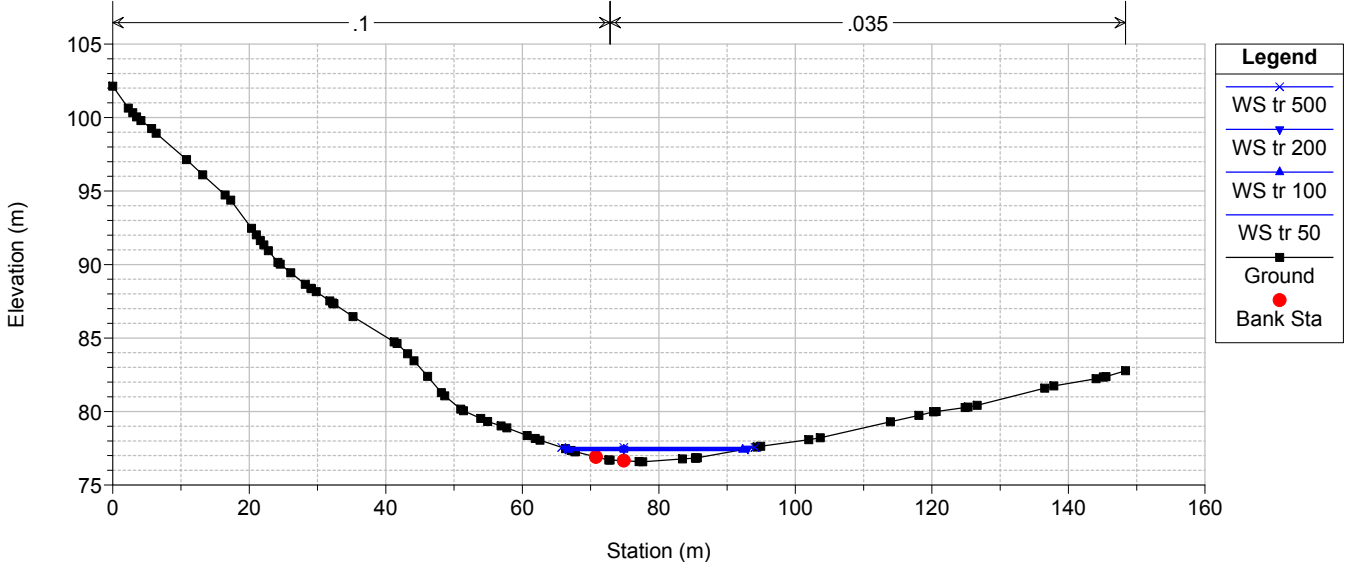
River = Rio Calabona Reach = Asta 1 RS = 3735.233 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

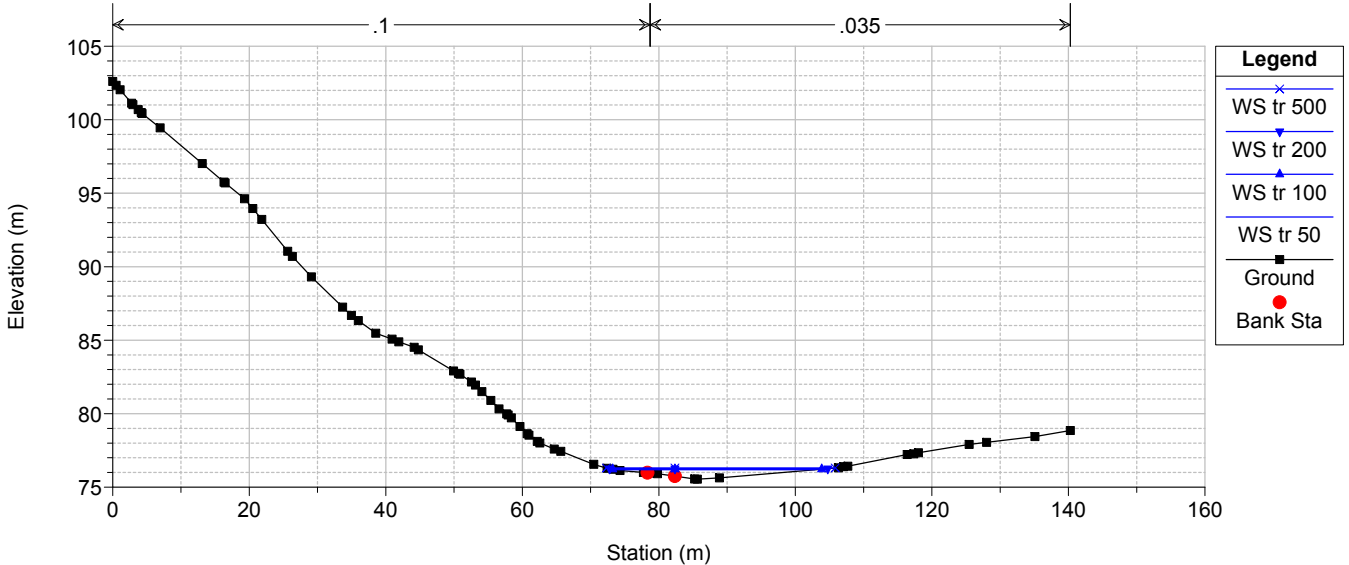
River = Rio Calabona Reach = Asta 1 RS = 3665.624 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

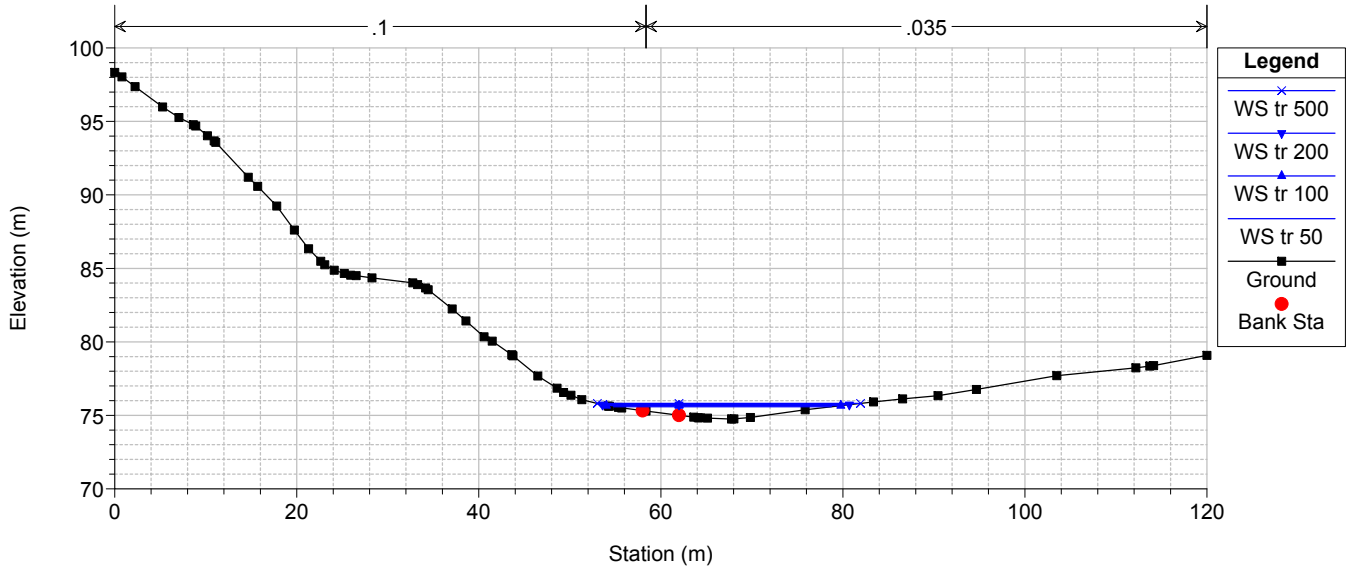
River = Rio Calabona Reach = Asta 1 RS = 3617.807 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

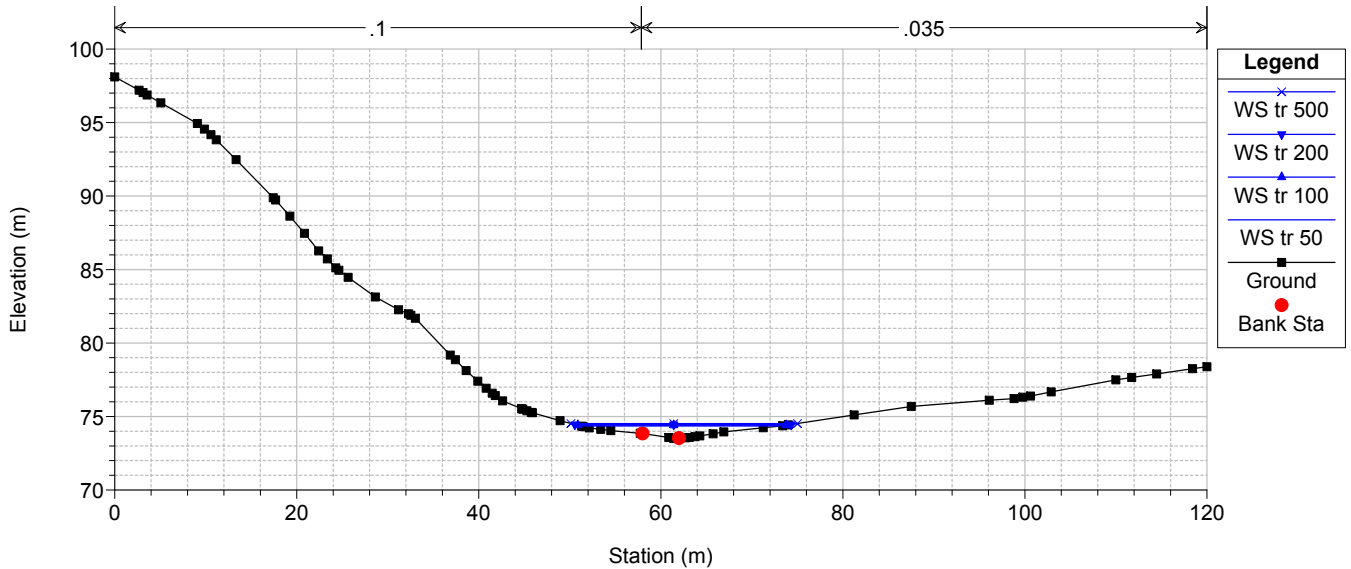
River = Rio Calabona Reach = Asta 1 RS = 3578.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

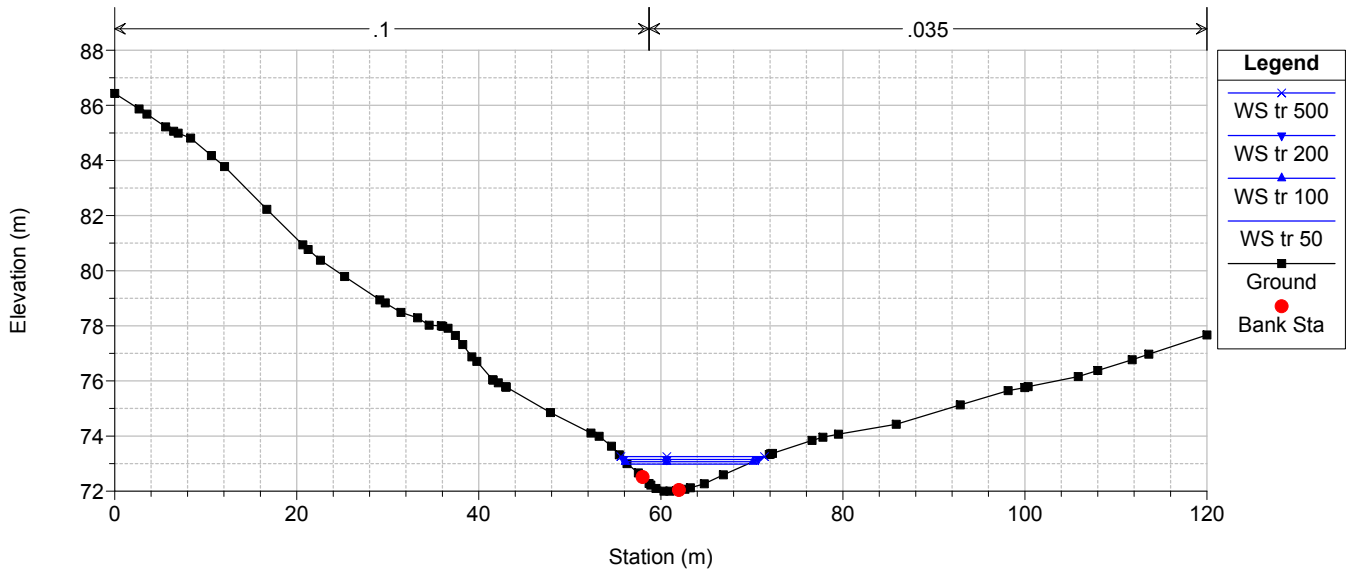
River = Rio Calabona Reach = Asta 1 RS = 3528.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

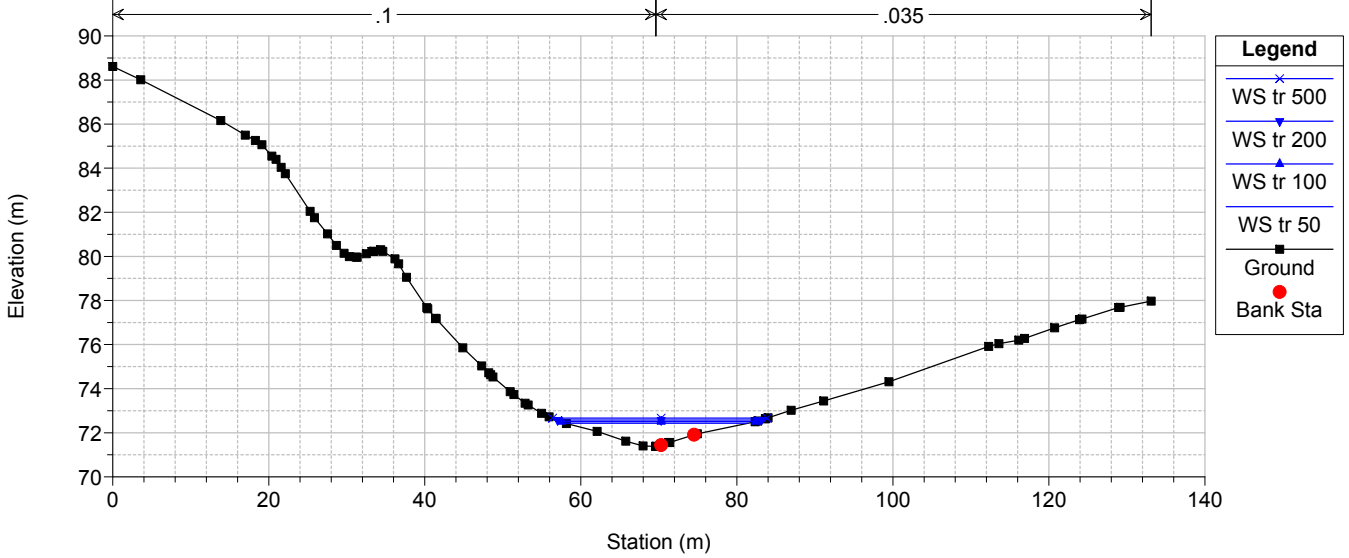
River = Rio Calabona Reach = Asta 1 RS = 3478.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

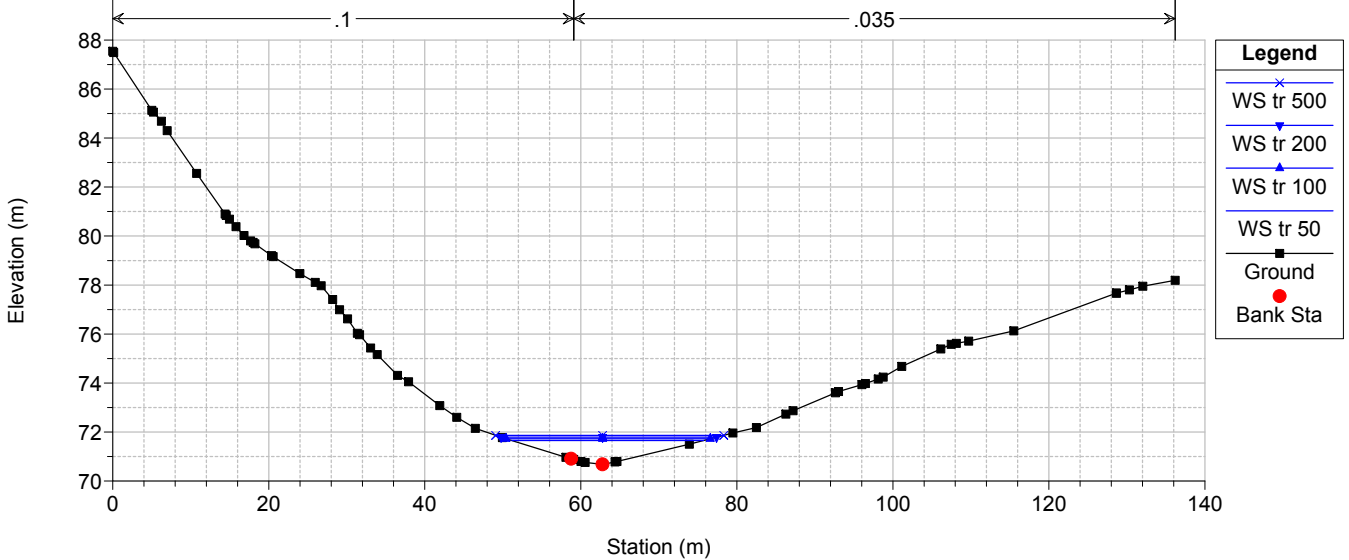
River = Rio Calabona Reach = Asta 1 RS = 3420.841 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

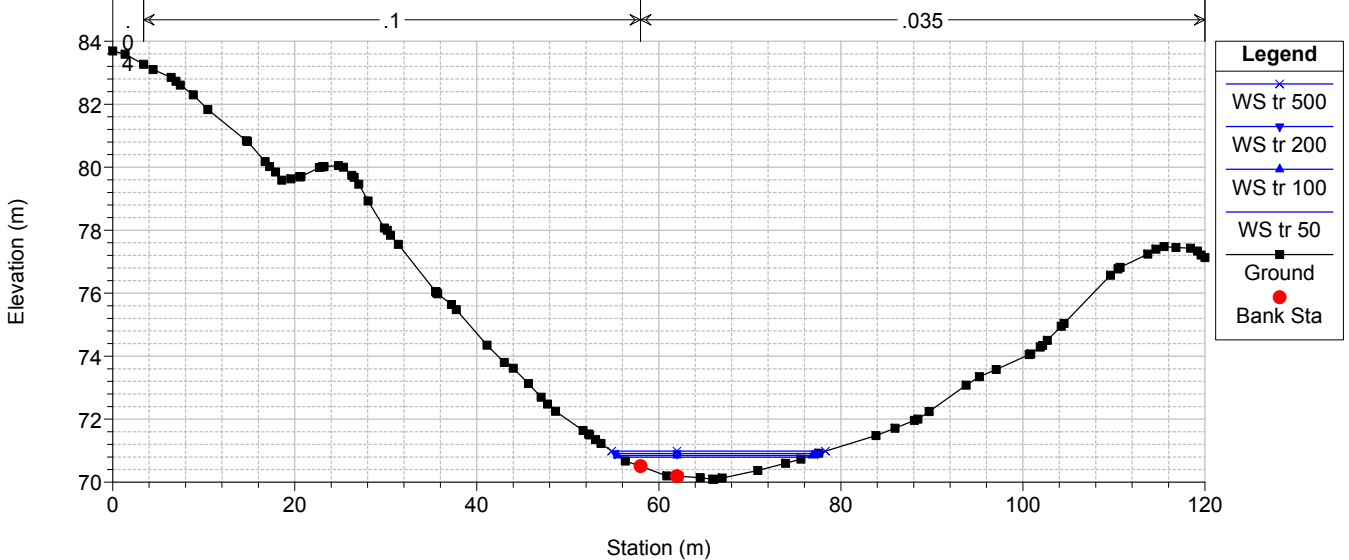
River = Rio Calabona Reach = Asta 1 RS = 3369.955 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

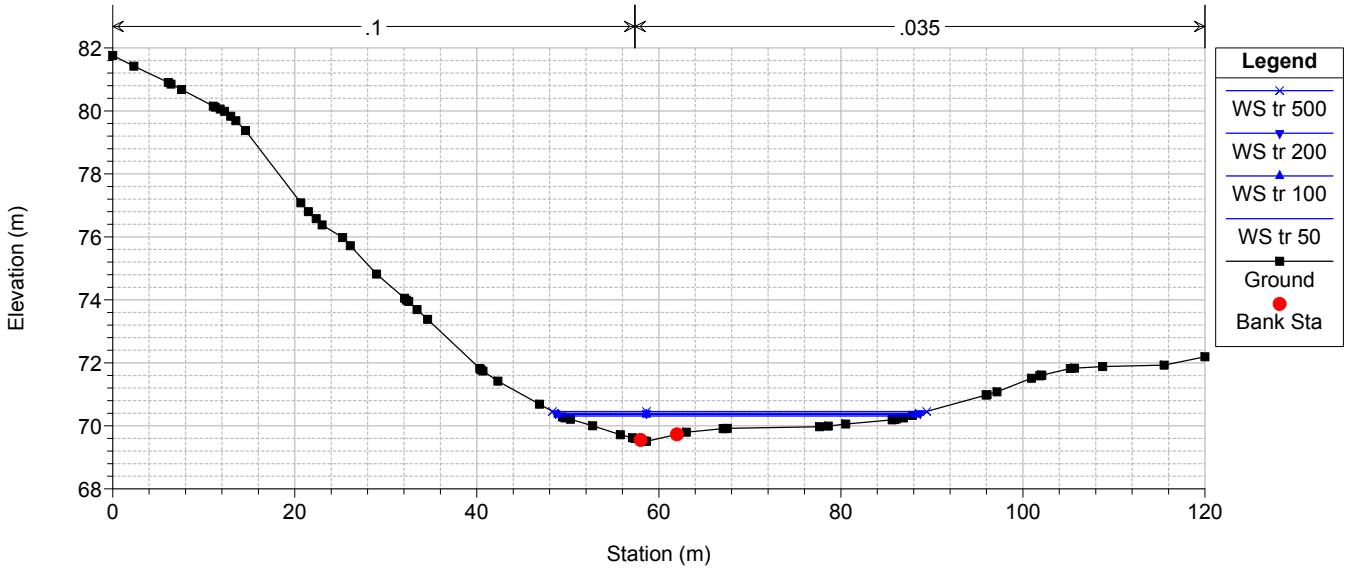
River = Rio Calabona Reach = Asta 1 RS = 3328.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

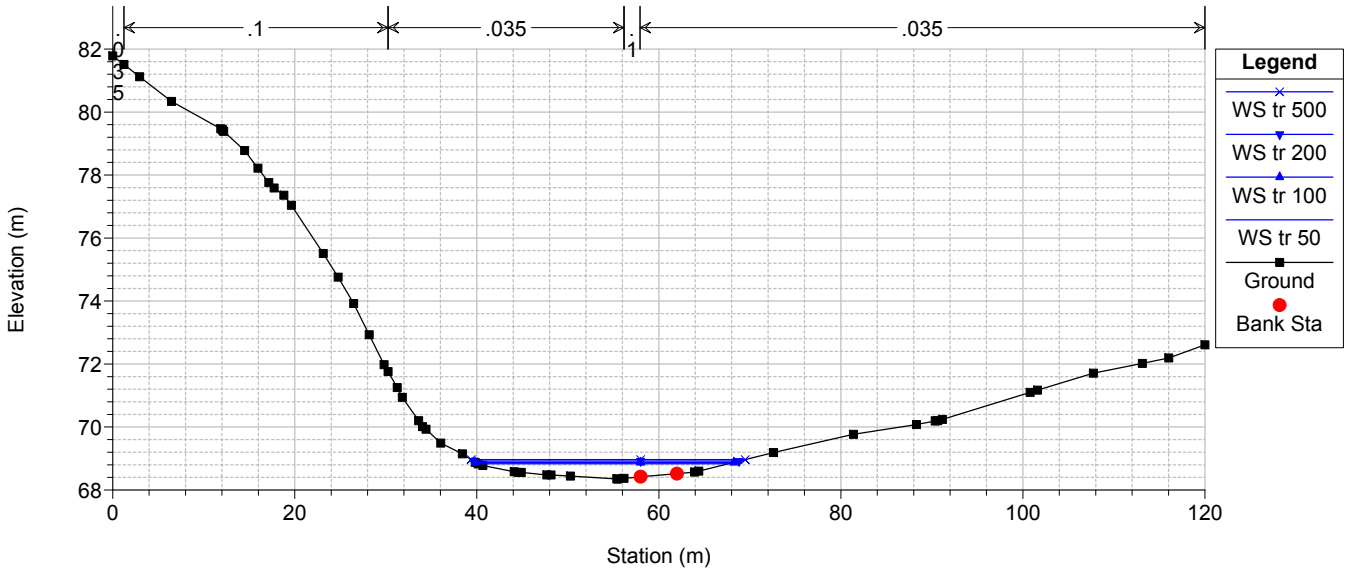
River = Rio Calabona Reach = Asta 1 RS = 3278.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

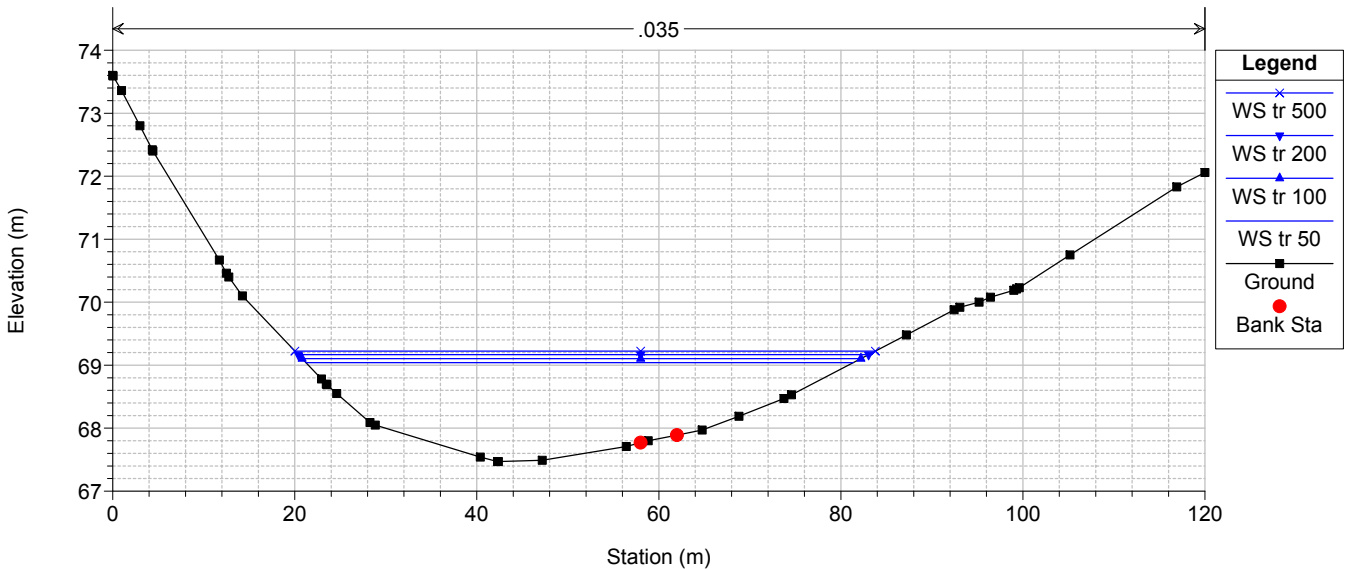
River = Rio Calabona Reach = Asta 1 RS = 3228.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

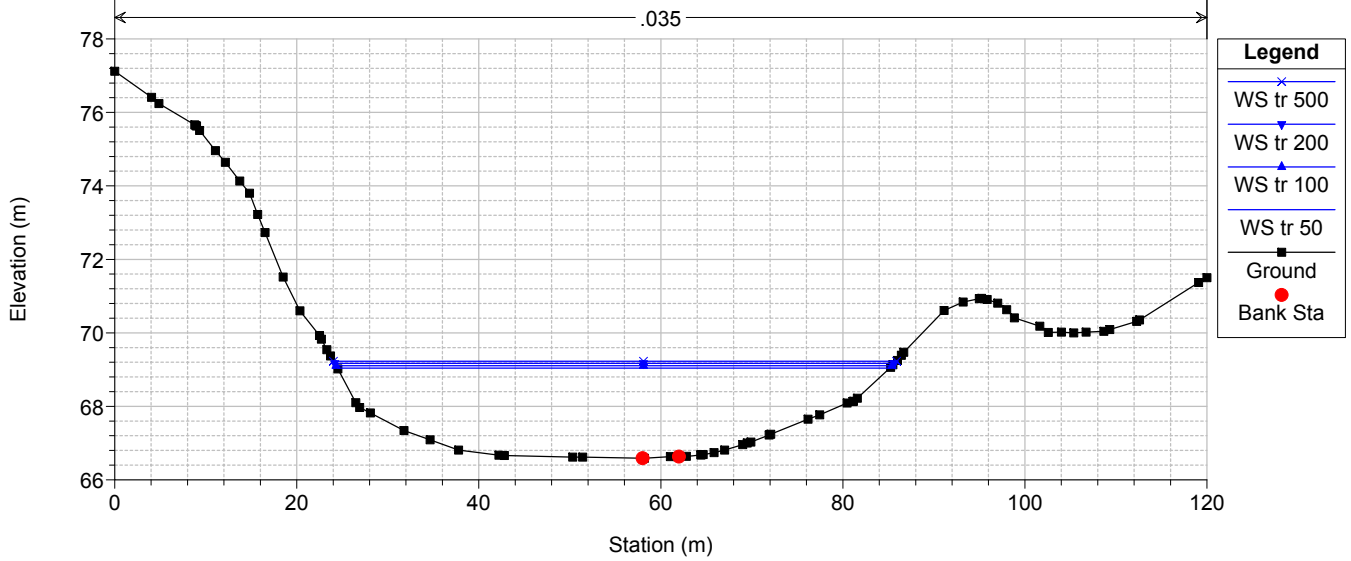
River = Rio Calabona Reach = Asta 1 RS = 3178.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

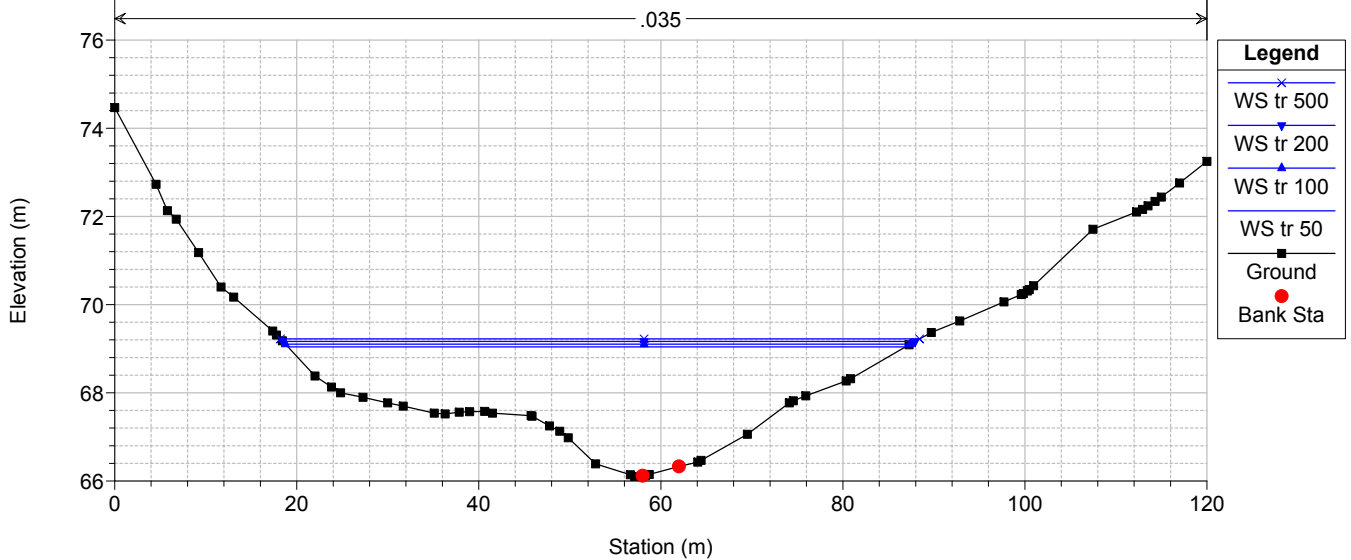
River = Rio Calabona Reach = Asta 1 RS = 3128.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

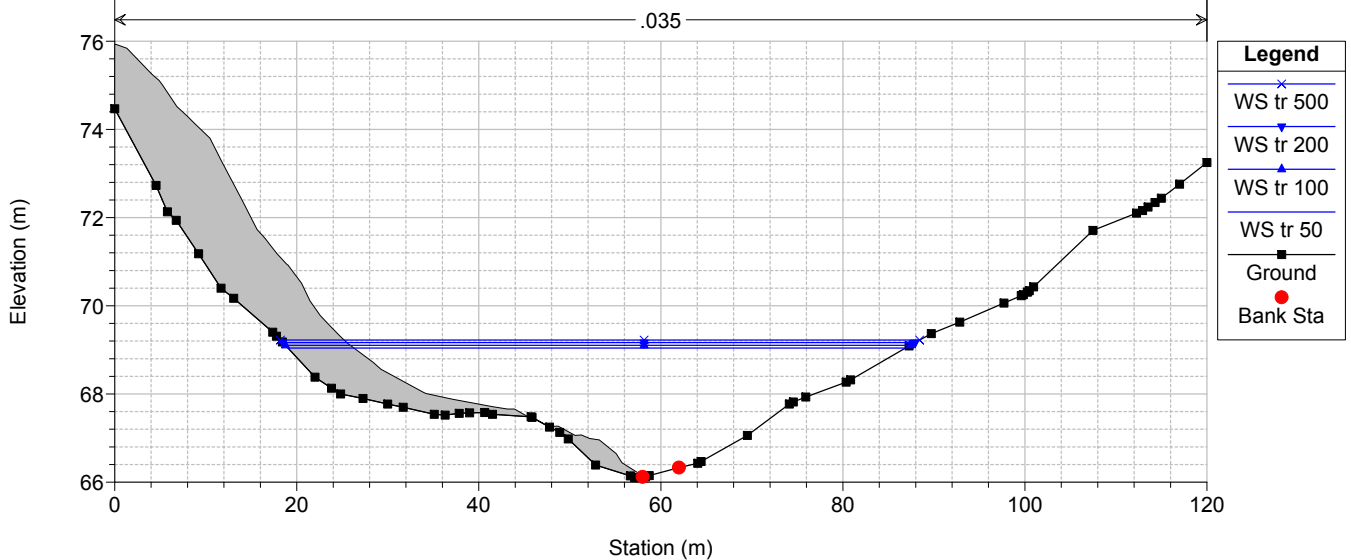
River = Rio Calabona Reach = Asta 1 RS = 3078.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

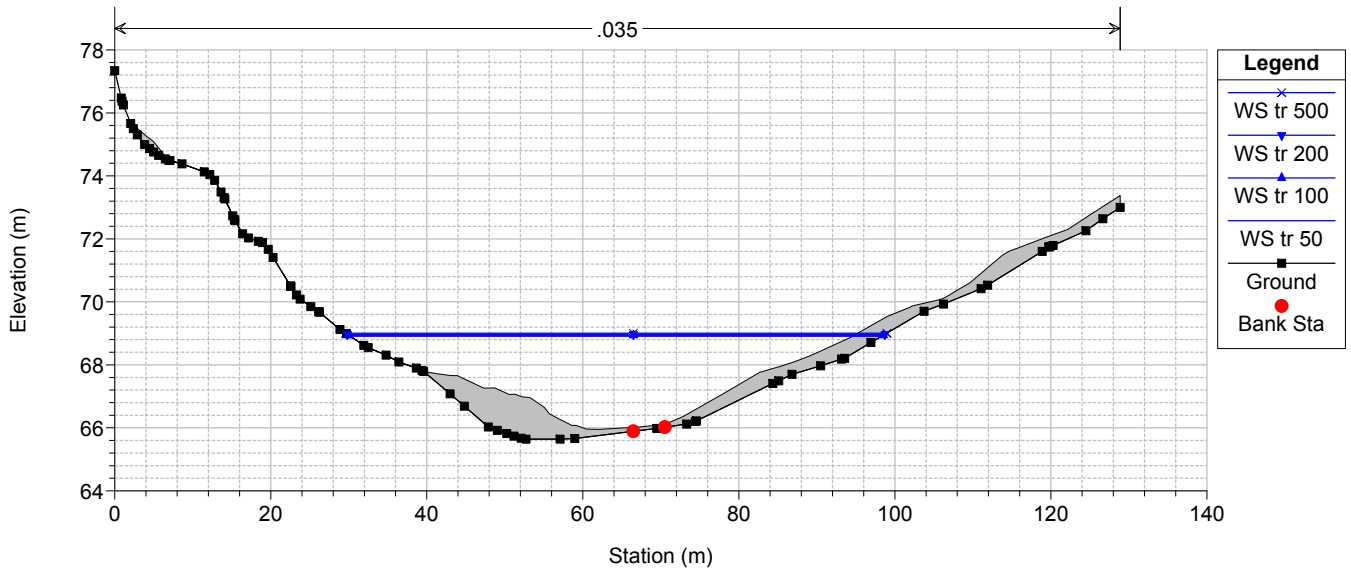
River = Rio Calabona Reach = Asta 1 RS = 3071.681 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

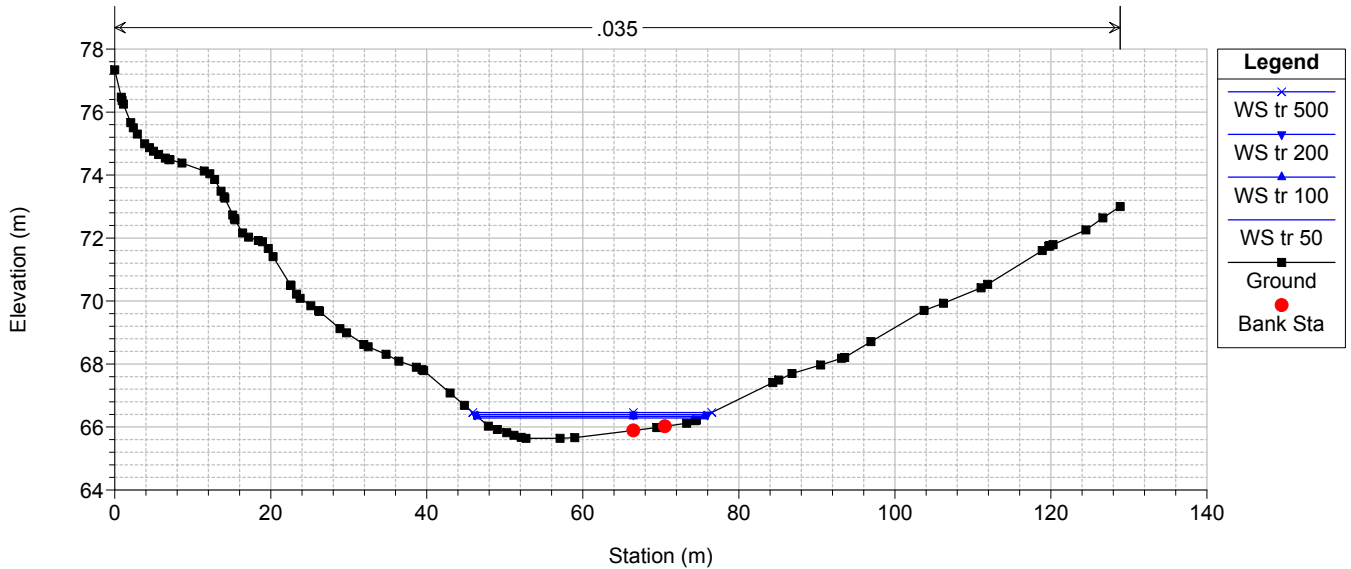
River = Rio Calabona Reach = Asta 1 RS = 3071.681 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

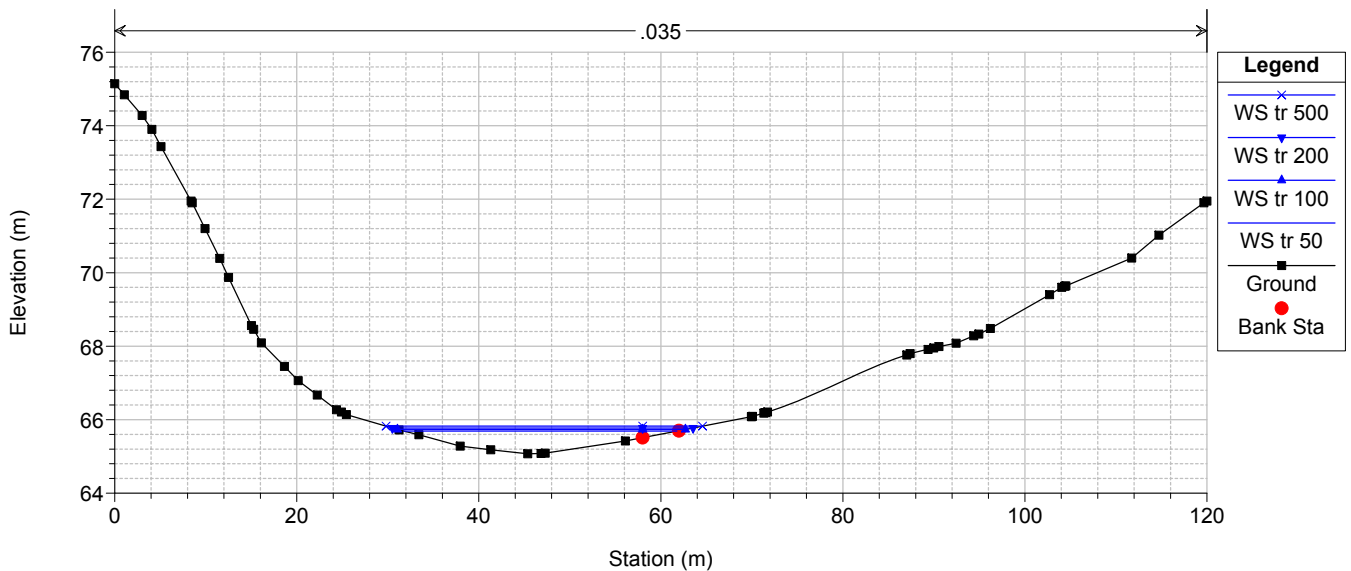
River = Rio Calabona Reach = Asta 1 RS = 3061.616 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

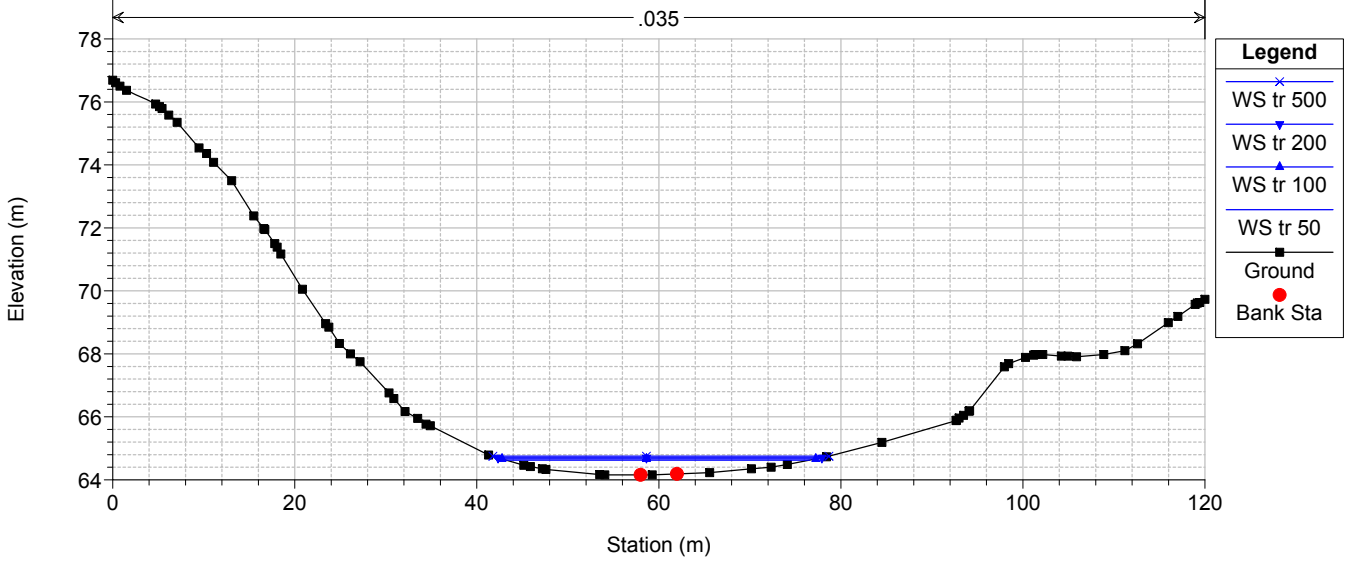
River = Rio Calabona Reach = Asta 1 RS = 3028.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

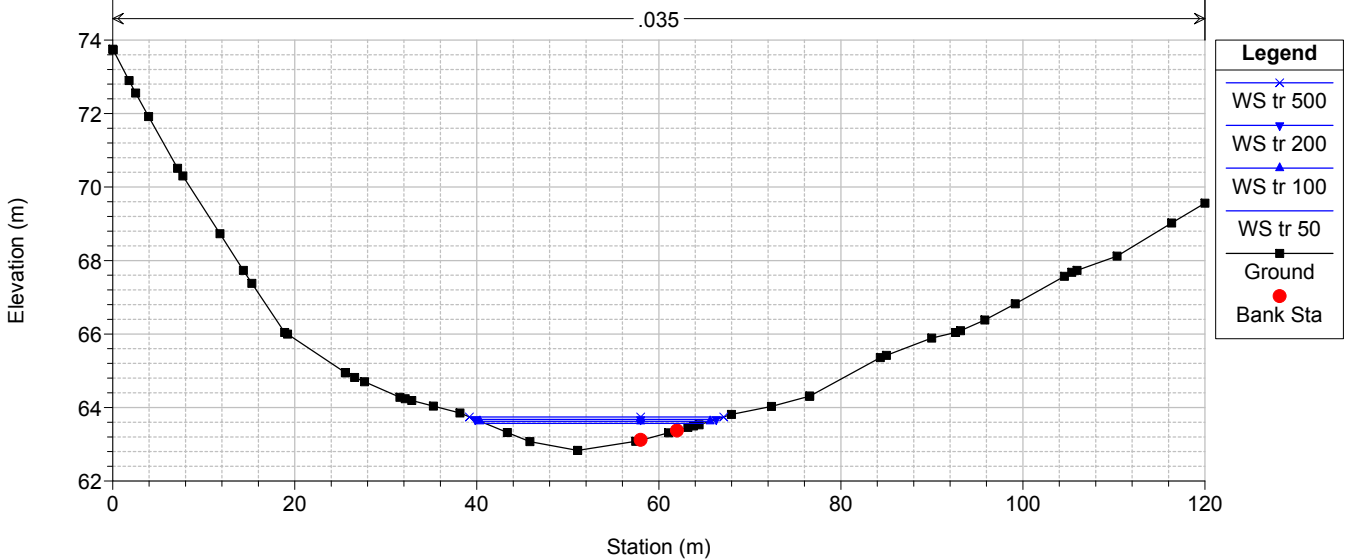
River = Rio Calabona Reach = Asta 1 RS = 2978.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

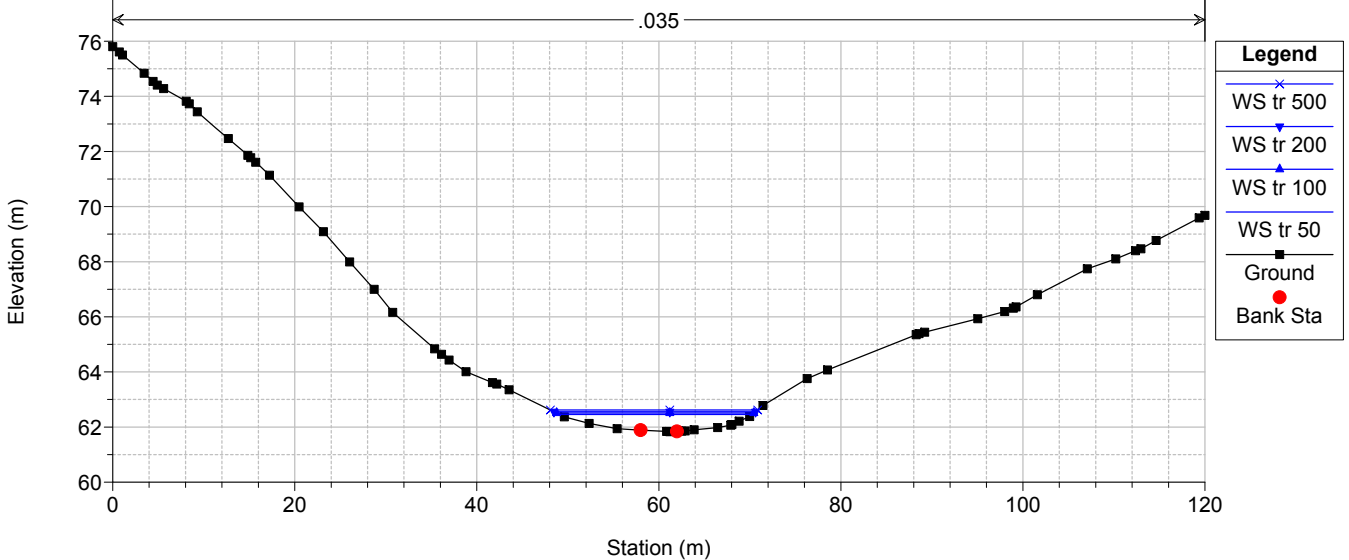
River = Rio Calabona Reach = Asta 1 RS = 2928.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

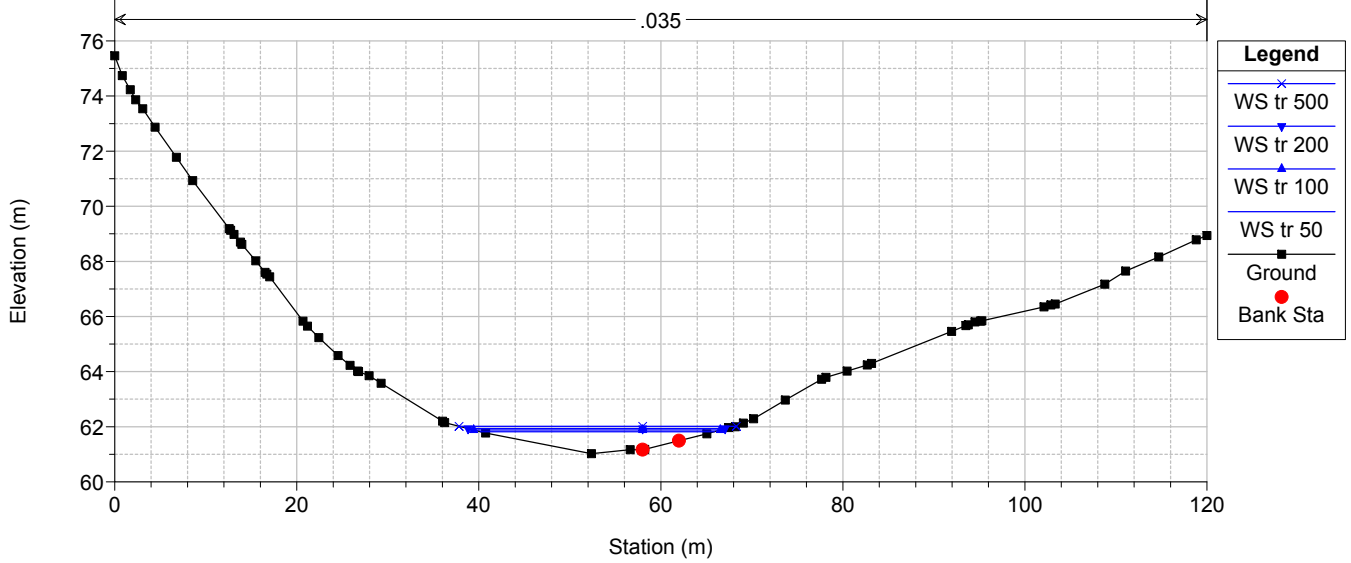
River = Rio Calabona Reach = Asta 1 RS = 2878.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

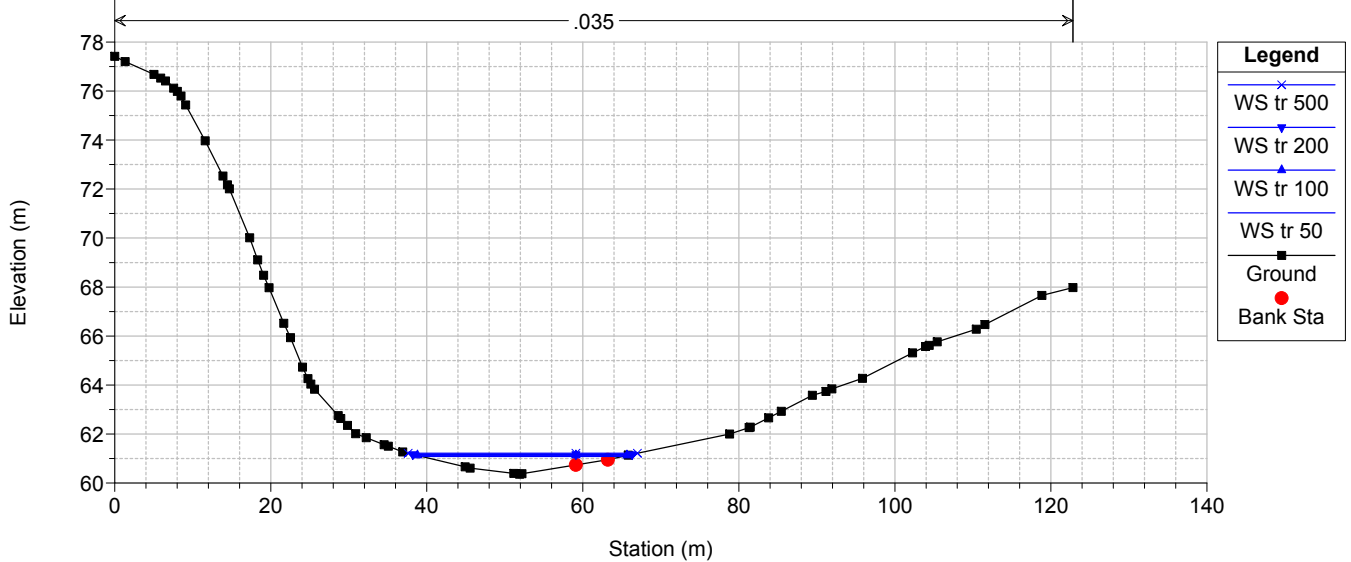
River = Rio Calabona Reach = Asta 1 RS = 2828.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

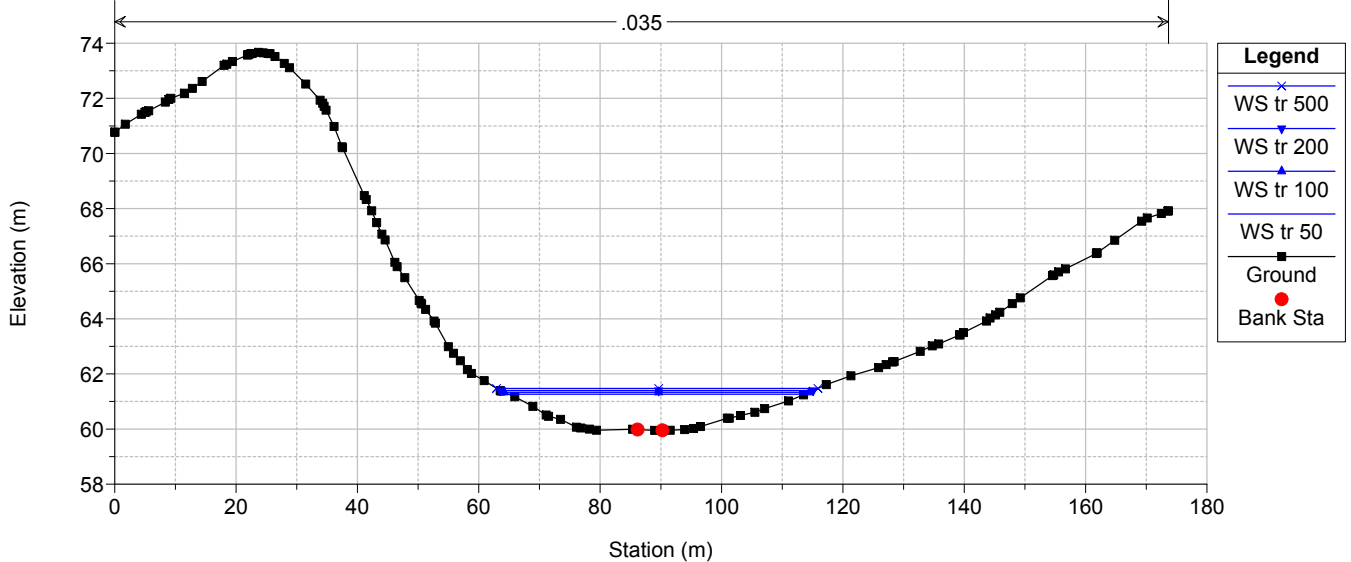
River = Rio Calabona Reach = Asta 1 RS = 2789.446 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

River = Rio Calabona Reach = Asta 1 RS = 2751.038 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	4778.093	tr 50	24.31	119.51	120.40	120.40	120.69	0.099451	2.84	10.79	18.67	0.98
Asta 1	4778.093	tr 100	28.81	119.51	120.48	120.48	120.79	0.097889	2.98	12.20	19.36	0.99
Asta 1	4778.093	tr 200	33.38	119.51	120.55	120.55	120.88	0.096494	3.11	13.59	20.08	0.99
Asta 1	4778.093	tr 500	39.60	119.51	120.63	120.63	121.00	0.096136	3.28	15.34	20.96	1.00
Asta 1	4728.093	tr 50	24.31	113.33	114.26	114.36	114.72	0.143725	3.21	8.58	14.74	1.16
Asta 1	4728.093	tr 100	28.81	113.33	114.33	114.44	114.84	0.145321	3.41	9.60	15.13	1.18
Asta 1	4728.093	tr 200	33.38	113.33	114.39	114.52	114.96	0.146406	3.59	10.60	15.50	1.20
Asta 1	4728.093	tr 500	39.60	113.33	114.48	114.63	115.10	0.145515	3.80	11.93	15.99	1.21
Asta 1	4678.093	tr 50	24.31	109.04	109.84	109.84	110.10	0.086291	2.40	11.28	21.76	0.89
Asta 1	4678.093	tr 100	28.81	109.04	109.91	109.91	110.18	0.083575	2.50	12.75	22.85	0.89
Asta 1	4678.093	tr 200	33.38	109.04	109.97	109.97	110.27	0.079682	2.58	14.27	23.93	0.88
Asta 1	4678.093	tr 500	39.60	109.04	110.05	110.05	110.37	0.077299	2.68	16.08	24.88	0.88
Asta 1	4628.093	tr 50	24.31	106.05	106.63	106.80	107.20	0.040790	3.75	7.92	22.88	1.65
Asta 1	4628.093	tr 100	28.81	106.05	106.68	106.87	107.30	0.041291	3.96	8.88	23.51	1.68
Asta 1	4628.093	tr 200	33.38	106.05	106.71	106.92	107.40	0.042172	4.18	9.76	24.08	1.72
Asta 1	4628.093	tr 500	39.60	106.05	106.76	106.99	107.52	0.042540	4.42	10.95	24.83	1.75
Asta 1	4578.093	tr 50	24.31	103.91	104.33	104.49	104.85	0.054083	3.37	7.98	28.20	1.79
Asta 1	4578.093	tr 100	28.81	103.91	104.36	104.54	104.94	0.053708	3.57	8.99	29.31	1.81
Asta 1	4578.093	tr 200	33.38	103.91	104.40	104.59	105.03	0.052993	3.75	10.00	30.39	1.82
Asta 1	4578.093	tr 500	39.60	103.91	104.44	104.65	105.14	0.052936	3.98	11.26	31.68	1.85
Asta 1	4528.093	tr 50	24.31	101.28	101.93	102.16	102.54	0.039556	4.14	7.60	19.56	1.68
Asta 1	4528.093	tr 100	28.81	101.28	101.98	102.21	102.64	0.039644	4.38	8.73	24.19	1.70
Asta 1	4528.093	tr 200	33.38	101.28	102.03	102.25	102.73	0.040032	4.59	9.88	27.31	1.73
Asta 1	4528.093	tr 500	39.60	101.28	102.09	102.31	102.84	0.040158	4.87	11.80	30.46	1.75
Asta 1	4478.093	tr 50	24.31	98.40	100.00	99.53	100.10	0.013418	1.42	18.30	20.88	0.39
Asta 1	4478.093	tr 100	28.81	98.40	100.10	99.62	100.21	0.013527	1.50	20.47	22.22	0.39
Asta 1	4478.093	tr 200	33.38	98.40	100.19	99.70	100.31	0.013634	1.56	22.51	23.27	0.40
Asta 1	4478.093	tr 500	39.60	98.40	100.30	99.81	100.43	0.013835	1.65	25.06	24.43	0.41
Asta 1	4457.704	tr 50	24.31	97.29	98.39	98.39	98.72	0.081155	2.62	9.84	14.92	0.89
Asta 1	4457.704	tr 100	28.81	97.29	98.48	98.48	98.84	0.078470	2.74	11.15	15.75	0.89
Asta 1	4457.704	tr 200	33.38	97.29	98.56	98.56	98.95	0.075850	2.84	12.44	16.54	0.88
Asta 1	4457.704	tr 500	39.60	97.29	98.66	98.66	99.09	0.070480	2.92	14.28	17.60	0.86
Asta 1	4428.093	tr 50	24.31	95.82	96.59	96.71	97.05	0.041342	3.36	9.36	19.96	1.27
Asta 1	4428.093	tr 100	28.81	95.82	96.65	96.79	97.16	0.042457	3.58	10.49	20.89	1.31
Asta 1	4428.093	tr 200	33.38	95.82	96.70	96.86	97.27	0.043684	3.79	11.57	21.73	1.34
Asta 1	4428.093	tr 500	39.60	95.82	96.75	96.95	97.40	0.045958	4.06	12.88	22.69	1.39
Asta 1	4378.093	tr 50	24.31	93.95	94.95	94.64	95.02	0.002950	1.29	23.44	39.36	0.43
Asta 1	4378.093	tr 100	28.81	93.95	95.02	94.70	95.10	0.003010	1.38	26.40	41.60	0.44
Asta 1	4378.093	tr 200	33.38	93.95	95.09	94.75	95.17	0.003041	1.44	29.30	43.44	0.45
Asta 1	4378.093	tr 500	39.60	93.95	95.17	94.82	95.26	0.003071	1.52	32.90	44.75	0.45
Asta 1	4369.912	tr 50	24.31	93.75	94.49	94.49	94.71	0.015337	2.46	12.57	28.50	0.93
Asta 1	4369.912	tr 100	28.81	93.75	94.55	94.55	94.79	0.014970	2.57	14.41	30.48	0.93
Asta 1	4369.912	tr 200	33.38	93.75	94.61	94.61	94.87	0.014682	2.67	16.22	32.31	0.94
Asta 1	4369.912	tr 500	39.60	93.75	94.68	94.68	94.96	0.014183	2.78	18.70	34.66	0.93
Asta 1	4345.392	tr 50	24.31	93.01	93.69	93.82	94.14	0.035916	3.29	8.55	20.37	1.38
Asta 1	4345.392	tr 100	28.81	93.01	93.75	93.89	94.24	0.034336	3.43	9.80	21.50	1.37
Asta 1	4345.392	tr 200	33.38	93.01	93.80	93.96	94.33	0.032854	3.56	11.07	22.59	1.36
Asta 1	4345.392	tr 500	39.60	93.01	93.87	94.04	94.43	0.031310	3.71	12.74	23.95	1.35
Asta 1	4328.093	tr 50	24.31	92.43	93.04	93.19	93.50	0.038548	3.31	8.65	22.15	1.42
Asta 1	4328.093	tr 100	28.81	92.43	93.09	93.25	93.60	0.039175	3.52	9.70	23.15	1.45
Asta 1	4328.093	tr 200	33.38	92.43	93.13	93.31	93.70	0.039793	3.72	10.73	24.10	1.48
Asta 1	4328.093	tr 500	39.60	92.43	93.19	93.39	93.82	0.040089	3.95	12.10	25.31	1.51
Asta 1	4278.093	tr 50	24.31	90.51	91.03	91.16	91.44	0.043472	2.97	8.98	27.20	1.45
Asta 1	4278.093	tr 100	28.81	90.51	91.07	91.22	91.53	0.043209	3.15	10.14	28.53	1.46
Asta 1	4278.093	tr 200	33.38	90.51	91.11	91.27	91.61	0.042980	3.32	11.28	29.76	1.48
Asta 1	4278.093	tr 500	39.60	90.51	91.16	91.34	91.72	0.043143	3.52	12.72	31.26	1.50
Asta 1	4228.093	tr 50	24.31	88.76	89.46	89.34	89.56	0.007362	1.64	18.18	41.41	0.64
Asta 1	4228.093	tr 100	28.81	88.76	89.52	89.40	89.63	0.007181	1.71	20.74	43.57	0.64
Asta 1	4228.093	tr 200	33.38	88.76	89.58	89.45	89.70	0.006898	1.77	23.41	45.71	0.64
Asta 1	4228.093	tr 500	39.60	88.76	89.65	89.50	89.78	0.006578	1.84	26.97	48.40	0.63
Asta 1	4178.093	tr 50	24.31	88.00	88.81	88.81	89.06	0.014126	2.45	12.18	25.66	0.90
Asta 1	4178.093	tr 100	28.81	88.00	88.88	88.88	89.14	0.013511	2.54	14.04	27.20	0.90
Asta 1	4178.093	tr 200	33.38	88.00	88.95	88.95	89.22	0.013253	2.64	15.76	28.51	0.90
Asta 1	4178.093	tr 500	39.60	88.00	89.02	89.02	89.32	0.013050	2.77	17.98	30.12	0.90
Asta 1	4128.093	tr 50	24.31	86.00	86.55	86.90	87.89	0.035117	5.67	5.56	16.31	2.59
Asta 1	4128.093	tr 100	28.81	86.00	86.60	86.98	88.02	0.032987	5.88	6.44	17.31	2.55
Asta 1	4128.093	tr 200	33.38	86.00	86.65	87.05	88.13	0.030931	6.04	7.35	18.29	2.51

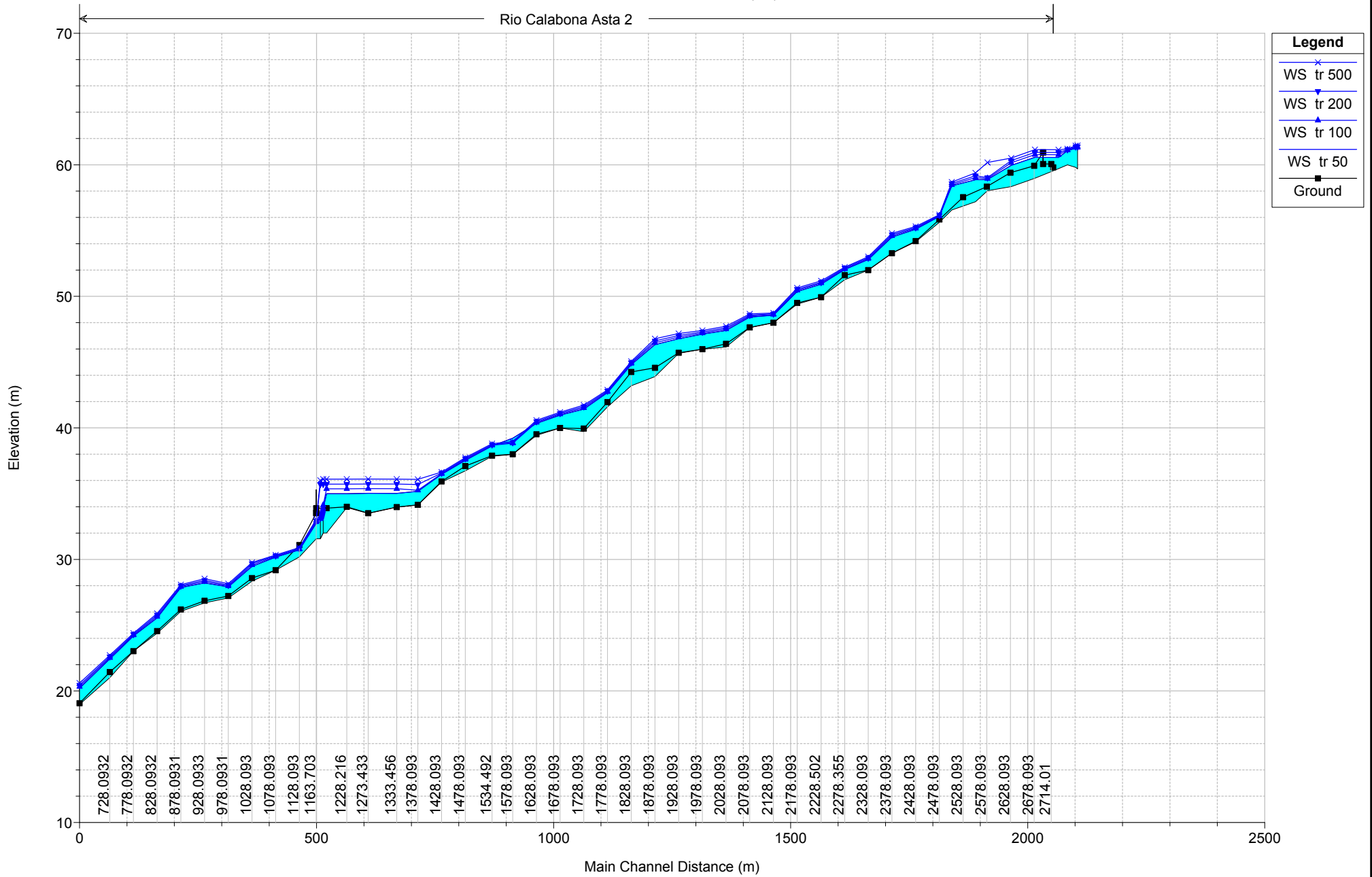
HEC-RAS Plan: 01 River: Rio Calabona Reach: Asta 1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	4128.093	tr 500	39.60	86.00	86.72	87.13	88.26	0.028597	6.23	8.59	19.57	2.45
Asta 1	4078.093	tr 50	24.31	84.55	85.48	85.69	86.15	0.027273	4.02	7.29	14.28	1.44
Asta 1	4078.093	tr 100	28.81	84.55	85.54	85.78	86.30	0.028375	4.30	8.16	15.09	1.49
Asta 1	4078.093	tr 200	33.38	84.55	85.59	85.86	86.43	0.029431	4.56	9.00	15.82	1.53
Asta 1	4078.093	tr 500	39.60	84.55	85.66	85.95	86.61	0.030636	4.88	10.08	16.72	1.58
Asta 1	4028.093	tr 50	24.31	83.89	84.34	84.40	84.59	0.029739	2.35	11.31	42.04	1.31
Asta 1	4028.093	tr 100	28.81	83.89	84.37	84.44	84.65	0.031209	2.54	12.47	43.42	1.36
Asta 1	4028.093	tr 200	33.38	83.89	84.39	84.48	84.72	0.032537	2.72	13.58	44.42	1.40
Asta 1	4028.093	tr 500	39.60	83.89	84.43	84.53	84.80	0.034236	2.93	14.98	45.46	1.46
Asta 1	3976.868	tr 50	24.31	80.62	83.58	82.18	83.63	0.000620	1.07	30.18	37.98	0.23
Asta 1	3976.868	tr 100	28.81	80.62	83.71	82.33	83.76	0.000631	1.12	35.21	41.88	0.23
Asta 1	3976.868	tr 200	33.38	80.62	83.80	82.48	83.85	0.000680	1.19	39.04	44.77	0.24
Asta 1	3976.868	tr 500	39.60	80.62	83.88	82.66	83.95	0.000771	1.30	43.14	47.66	0.26
Asta 1	3950.562		Culvert									
Asta 1	3940.943	tr 50	24.31	80.00	82.20	81.79	82.65	0.010027	3.01	9.00	15.24	0.69
Asta 1	3940.943	tr 100	28.81	80.00	82.45	82.45	82.77	0.006990	2.72	13.69	22.32	0.59
Asta 1	3940.943	tr 200	33.38	80.00	82.54	82.54	82.86	0.007010	2.80	15.86	24.19	0.59
Asta 1	3940.943	tr 500	39.60	80.00	82.65	82.65	82.98	0.007133	2.91	18.49	26.27	0.60
Asta 1	3917.049	tr 50	24.31	81.46	82.13	82.13	82.30	0.012546	2.40	14.43	40.33	0.95
Asta 1	3917.049	tr 100	28.81	81.46	82.04	82.18	82.44	0.035673	3.66	10.99	34.50	1.56
Asta 1	3917.049	tr 200	33.38	81.46	82.07	82.21	82.52	0.038411	3.94	12.10	37.59	1.64
Asta 1	3917.049	tr 500	39.60	81.46	82.11	82.27	82.62	0.040648	4.21	13.47	39.75	1.70
Asta 1	3878.093	tr 50	24.31	80.57	81.09	81.22	81.51	0.035796	3.11	8.86	26.32	1.50
Asta 1	3878.093	tr 100	28.81	80.57	81.25	81.28	81.51	0.015960	2.53	13.11	29.56	1.05
Asta 1	3878.093	tr 200	33.38	80.57	81.30	81.33	81.58	0.015240	2.63	14.75	30.75	1.05
Asta 1	3878.093	tr 500	39.60	80.57	81.37	81.40	81.67	0.014573	2.75	16.88	32.23	1.04
Asta 1	3828.093	tr 50	24.31	79.07	79.96	80.02	80.33	0.016517	3.18	10.44	25.14	1.13
Asta 1	3828.093	tr 100	28.81	79.07	79.94	80.02	80.50	0.025350	3.89	10.07	24.64	1.39
Asta 1	3828.093	tr 200	33.38	79.07	79.99	80.02	80.58	0.025680	4.08	11.28	26.25	1.42
Asta 1	3828.093	tr 500	39.60	79.07	80.02	80.02	80.13	0.005482	1.93	28.32	55.63	0.66
Asta 1	3778.093	tr 50	24.31	76.86	77.27	77.58	78.47	0.122322	5.06	5.18	17.45	2.69
Asta 1	3778.093	tr 100	28.81	76.86	77.35	77.64	78.37	0.080019	4.70	6.70	18.82	2.25
Asta 1	3778.093	tr 200	33.38	76.86	77.40	77.71	78.48	0.075659	4.87	7.55	19.54	2.23
Asta 1	3778.093	tr 500	39.60	76.86	77.36	77.79	79.20	0.140204	6.31	6.88	18.97	2.99
Asta 1	3735.233	tr 50	24.31	75.03	77.64	76.07	77.66	0.000147	0.62	49.87	33.85	0.13
Asta 1	3735.233	tr 100	28.81	75.03	77.74	76.15	77.76	0.000174	0.69	53.14	34.76	0.14
Asta 1	3735.233	tr 200	33.38	75.03	77.83	76.24	77.85	0.000200	0.75	56.28	35.61	0.15
Asta 1	3735.233	tr 500	39.60	75.03	77.94	76.34	77.96	0.000235	0.84	60.29	36.93	0.16
Asta 1	3665.624	tr 50	24.31	76.58	77.34	77.34	77.60	0.014212	2.35	11.63	24.25	0.94
Asta 1	3665.624	tr 100	28.81	76.58	77.41	77.41	77.69	0.013756	2.47	13.33	25.52	0.94
Asta 1	3665.624	tr 200	33.38	76.58	77.47	77.47	77.78	0.013314	2.57	15.04	26.73	0.93
Asta 1	3665.624	tr 500	39.60	76.58	77.55	77.55	77.88	0.012707	2.69	17.35	28.28	0.93
Asta 1	3617.807	tr 50	24.31	75.54	76.18	76.31	76.59	0.032584	3.13	9.41	29.19	1.45
Asta 1	3617.807	tr 100	28.81	75.54	76.22	76.37	76.68	0.033773	3.35	10.57	30.62	1.49
Asta 1	3617.807	tr 200	33.38	75.54	76.26	76.42	76.77	0.035055	3.56	11.68	31.96	1.54
Asta 1	3617.807	tr 500	39.60	75.54	76.30	76.48	76.89	0.036714	3.83	13.09	33.52	1.59
Asta 1	3578.093	tr 50	24.31	74.75	75.58	75.58	75.85	0.013519	2.31	11.11	23.95	0.97
Asta 1	3578.093	tr 100	28.81	74.75	75.66	75.66	75.95	0.012547	2.40	12.94	25.76	0.95
Asta 1	3578.093	tr 200	33.38	74.75	75.72	75.72	76.03	0.012027	2.50	14.66	27.11	0.94
Asta 1	3578.093	tr 500	39.60	74.75	75.81	75.81	76.14	0.011201	2.61	17.11	28.93	0.93
Asta 1	3528.093	tr 50	24.31	73.51	74.35	74.53	74.91	0.025894	3.61	9.20	21.89	1.38
Asta 1	3528.093	tr 100	28.81	73.51	74.41	74.60	75.03	0.026707	3.86	10.40	22.89	1.42
Asta 1	3528.093	tr 200	33.38	73.51	74.46	74.67	75.13	0.026895	4.05	11.64	23.78	1.44
Asta 1	3528.093	tr 500	39.60	73.51	74.52	74.76	75.27	0.027314	4.29	13.21	24.88	1.47
Asta 1	3478.093	tr 50	24.31	72.00	72.98	73.13	73.54	0.029390	3.47	7.81	13.17	1.20
Asta 1	3478.093	tr 100	28.81	72.00	73.07	73.22	73.66	0.027696	3.60	9.05	14.05	1.19
Asta 1	3478.093	tr 200	33.38	72.00	73.15	73.31	73.78	0.026740	3.74	10.22	14.81	1.18
Asta 1	3478.093	tr 500	39.60	72.00	73.25	73.43	73.93	0.025542	3.90	11.79	15.79	1.17
Asta 1	3420.841	tr 50	24.31	71.38	72.43	72.42	72.70	0.021087	2.50	12.34	23.35	0.86
Asta 1	3420.841	tr 100	28.81	71.38	72.50	72.50	72.80	0.020721	2.63	14.09	24.86	0.86
Asta 1	3420.841	tr 200	33.38	71.38	72.57	72.57	72.89	0.020151	2.73	15.85	26.09	0.87
Asta 1	3420.841	tr 500	39.60	71.38	72.66	72.66	73.00	0.019363	2.85	18.19	27.50	0.87
Asta 1	3369.955	tr 50	24.31	70.68	71.65	71.65	71.93	0.011443	2.75	12.87	24.59	0.93
Asta 1	3369.955	tr 100	28.81	70.68	71.72	71.73	72.03	0.011540	2.91	14.68	26.18	0.95
Asta 1	3369.955	tr 200	33.38	70.68	71.79	71.80	72.12	0.011693	3.05	16.41	27.60	0.96
Asta 1	3369.955	tr 500	39.60	70.68	71.86	71.89	72.24	0.011999	3.24	18.60	29.24	0.99

HEC-RAS Plan: 01 River: Rio Calabona Reach: Asta 1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	3328.093	tr 50	24.31	70.09	70.79	70.91	71.24	0.024650	3.06	8.81	20.50	1.30
Asta 1	3328.093	tr 100	28.81	70.09	70.85	70.98	71.34	0.023864	3.22	10.06	21.40	1.30
Asta 1	3328.093	tr 200	33.38	70.09	70.91	71.05	71.43	0.023027	3.36	11.33	22.28	1.30
Asta 1	3328.093	tr 500	39.60	70.09	70.98	71.14	71.55	0.021865	3.51	13.06	23.48	1.29
Asta 1	3278.093	tr 50	24.31	69.51	70.31	70.31	70.49	0.014404	2.29	14.56	38.43	0.88
Asta 1	3278.093	tr 100	28.81	69.51	70.36	70.36	70.56	0.014392	2.38	16.37	39.29	0.88
Asta 1	3278.093	tr 200	33.38	69.51	70.40	70.40	70.62	0.014642	2.49	18.00	40.06	0.90
Asta 1	3278.093	tr 500	39.60	69.51	70.46	70.46	70.70	0.014481	2.59	20.30	41.11	0.90
Asta 1	3228.093	tr 50	24.31	68.35	68.84	68.97	69.27	0.048811	3.16	8.57	27.56	1.56
Asta 1	3228.093	tr 100	28.81	68.35	68.88	69.02	69.35	0.046939	3.30	9.71	28.39	1.55
Asta 1	3228.093	tr 200	33.38	68.35	68.92	69.07	69.42	0.044431	3.40	10.91	29.19	1.54
Asta 1	3228.093	tr 500	39.60	68.35	68.97	69.13	69.52	0.043092	3.56	12.34	30.12	1.54
Asta 1	3178.093	tr 50	24.31	67.47	69.04	68.08	69.05	0.000168	0.48	61.81	60.13	0.13
Asta 1	3178.093	tr 100	28.81	67.47	69.10	68.13	69.12	0.000199	0.54	65.71	61.41	0.14
Asta 1	3178.093	tr 200	33.38	67.47	69.17	68.17	69.18	0.000226	0.59	69.61	62.65	0.15
Asta 1	3178.093	tr 500	39.60	67.47	69.22	68.23	69.24	0.000277	0.67	73.14	63.77	0.17
Asta 1	3128.093	tr 50	24.31	66.59	69.04	67.00	69.04	0.000023	0.24	114.13	60.71	0.05
Asta 1	3128.093	tr 100	28.81	66.59	69.11	67.00	69.11	0.000029	0.28	118.06	61.10	0.06
Asta 1	3128.093	tr 200	33.38	66.59	69.17	67.00	69.17	0.000035	0.31	121.93	61.50	0.06
Asta 1	3128.093	tr 500	39.60	66.59	69.23	67.00	69.23	0.000045	0.36	125.41	61.87	0.07
Asta 1	3078.093	tr 50	24.31	66.10	69.04	67.00	69.04	0.000031	0.32	106.95	67.82	0.06
Asta 1	3078.093	tr 100	28.81	66.10	69.10	67.00	69.11	0.000039	0.36	111.32	68.64	0.07
Asta 1	3078.093	tr 200	33.38	66.10	69.17	67.16	69.17	0.000048	0.40	115.64	69.47	0.08
Asta 1	3078.093	tr 500	39.60	66.10	69.22	67.25	69.23	0.000061	0.46	119.53	70.22	0.09
Asta 1	3071.681		Culvert									
Asta 1	3061.616	tr 50	24.31	65.64	66.28	66.28	66.50	0.012569	2.20	12.35	28.40	0.93
Asta 1	3061.616	tr 100	28.81	65.64	66.34	66.34	66.58	0.012335	2.32	13.94	29.11	0.94
Asta 1	3061.616	tr 200	33.38	65.64	66.39	66.39	66.65	0.012102	2.42	15.49	29.79	0.94
Asta 1	3061.616	tr 500	39.60	65.64	66.46	66.46	66.75	0.011931	2.56	17.47	30.64	0.95
Asta 1	3028.093	tr 50	24.31	65.07	65.69	65.75	65.98	0.019610	2.47	10.82	30.00	1.13
Asta 1	3028.093	tr 100	28.81	65.07	65.73	65.81	66.06	0.019759	2.63	12.20	31.64	1.15
Asta 1	3028.093	tr 200	33.38	65.07	65.77	65.86	66.13	0.019995	2.78	13.51	33.05	1.17
Asta 1	3028.093	tr 500	39.60	65.07	65.82	65.93	66.22	0.020405	2.97	15.18	34.76	1.20
Asta 1	2978.093	tr 50	24.31	64.16	64.63	64.69	64.90	0.023533	2.40	10.92	33.32	1.20
Asta 1	2978.093	tr 100	28.81	64.16	64.66	64.74	64.97	0.023635	2.56	12.23	34.47	1.22
Asta 1	2978.093	tr 200	33.38	64.16	64.70	64.79	65.04	0.023541	2.70	13.55	35.58	1.24
Asta 1	2978.093	tr 500	39.60	64.16	64.75	64.85	65.13	0.023293	2.86	15.28	36.91	1.25
Asta 1	2928.093	tr 50	24.31	62.83	63.57	63.62	63.87	0.018009	2.47	10.23	24.01	1.10
Asta 1	2928.093	tr 100	28.81	62.83	63.63	63.68	63.96	0.017429	2.60	11.63	25.29	1.10
Asta 1	2928.093	tr 200	33.38	62.83	63.68	63.75	64.04	0.017046	2.73	13.00	26.48	1.10
Asta 1	2928.093	tr 500	39.60	62.83	63.74	63.82	64.15	0.016666	2.88	14.78	27.96	1.11
Asta 1	2878.093	tr 50	24.31	61.83	62.46	62.55	62.84	0.023589	3.03	9.27	21.19	1.28
Asta 1	2878.093	tr 100	28.81	61.83	62.51	62.61	62.94	0.023906	3.22	10.33	21.68	1.30
Asta 1	2878.093	tr 200	33.38	61.83	62.56	62.68	63.03	0.023951	3.39	11.39	22.16	1.32
Asta 1	2878.093	tr 500	39.60	61.83	62.62	62.75	63.14	0.023800	3.59	12.80	22.77	1.34
Asta 1	2828.093	tr 50	24.31	61.02	61.82	61.82	62.05	0.014035	2.17	11.58	25.74	0.97
Asta 1	2828.093	tr 100	28.81	61.02	61.88	61.88	62.14	0.013262	2.27	13.20	27.11	0.96
Asta 1	2828.093	tr 200	33.38	61.02	61.93	61.93	62.22	0.013147	2.39	14.63	28.25	0.97
Asta 1	2828.093	tr 500	39.60	61.02	62.02	62.02	62.31	0.011839	2.47	17.08	30.47	0.94
Asta 1	2789.446	tr 50	24.31	60.36	61.08	61.15	61.39	0.020716	2.55	10.20	25.70	1.16
Asta 1	2789.446	tr 100	28.81	60.36	61.13	61.21	61.48	0.021461	2.74	11.33	26.86	1.20
Asta 1	2789.446	tr 200	33.38	60.36	61.17	61.27	61.56	0.021358	2.89	12.57	28.12	1.21
Asta 1	2789.446	tr 500	39.60	60.36	61.22	61.34	61.68	0.022817	3.14	13.86	29.38	1.27
Asta 1	2751.038	tr 50	24.31	59.95	61.27	60.50	61.28	0.000381	0.66	44.04	48.91	0.19
Asta 1	2751.038	tr 100	28.81	59.95	61.33	60.55	61.35	0.000439	0.73	47.29	50.28	0.20
Asta 1	2751.038	tr 200	33.38	59.95	61.40	60.61	61.42	0.000490	0.80	50.52	51.60	0.21
Asta 1	2751.038	tr 500	39.60	59.95	61.48	60.67	61.51	0.000550	0.88	54.69	52.98	0.23

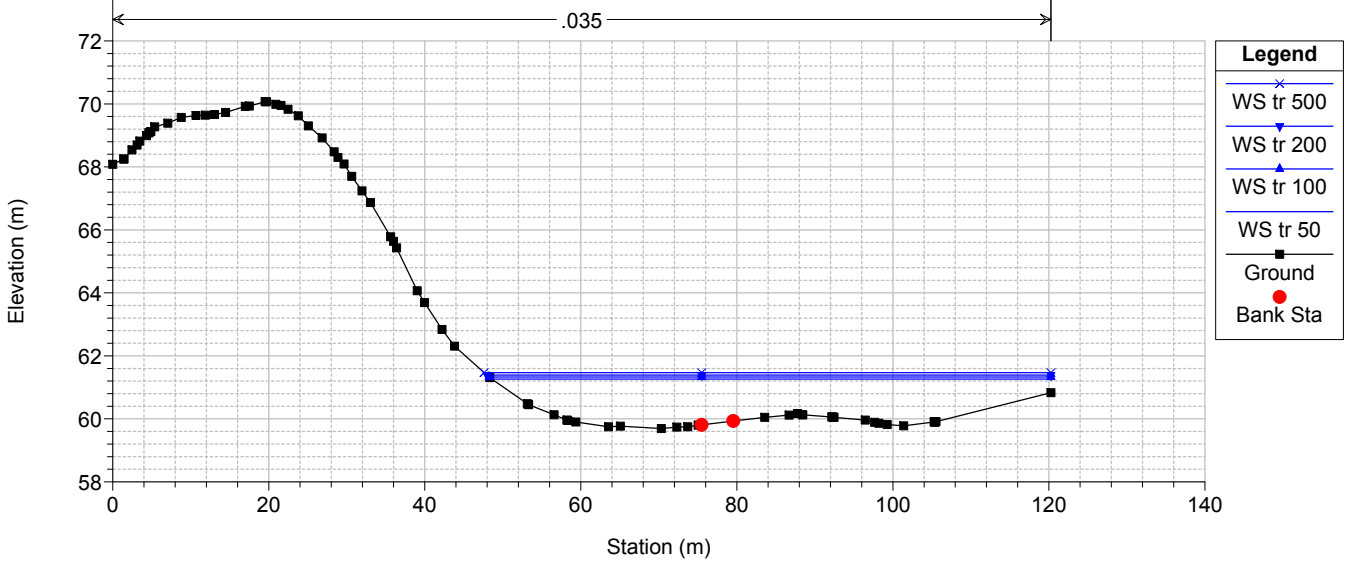
Rio Calabona Asta 2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

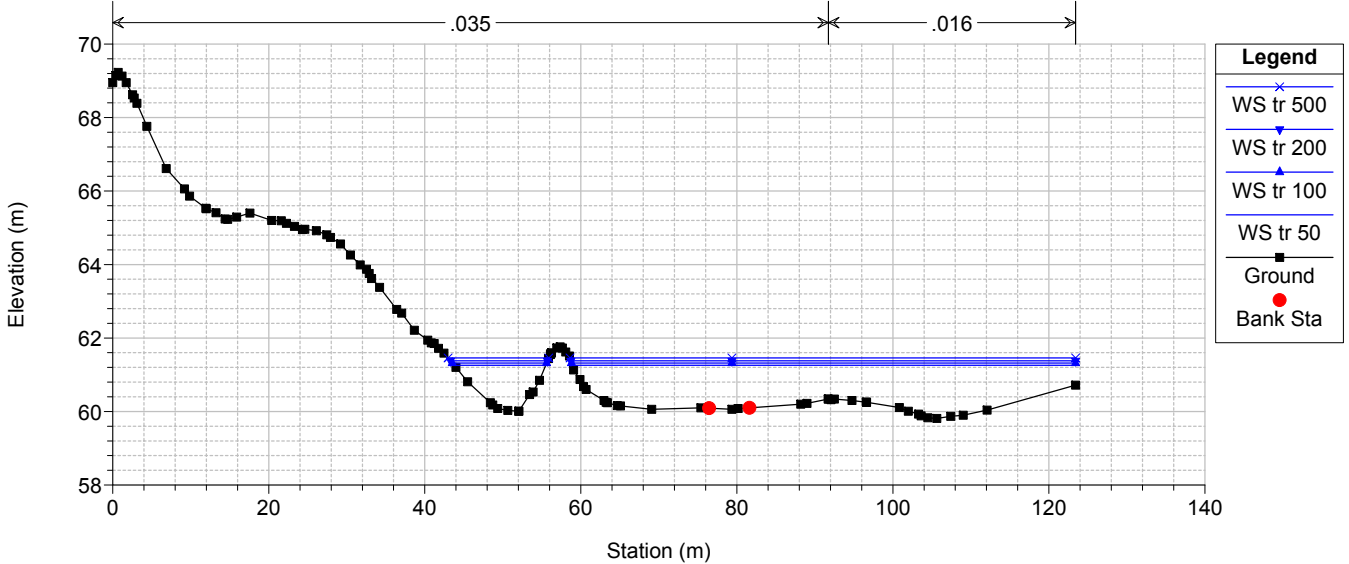
River = Rio Calabona Reach = Asta 2 RS = 2718.168 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

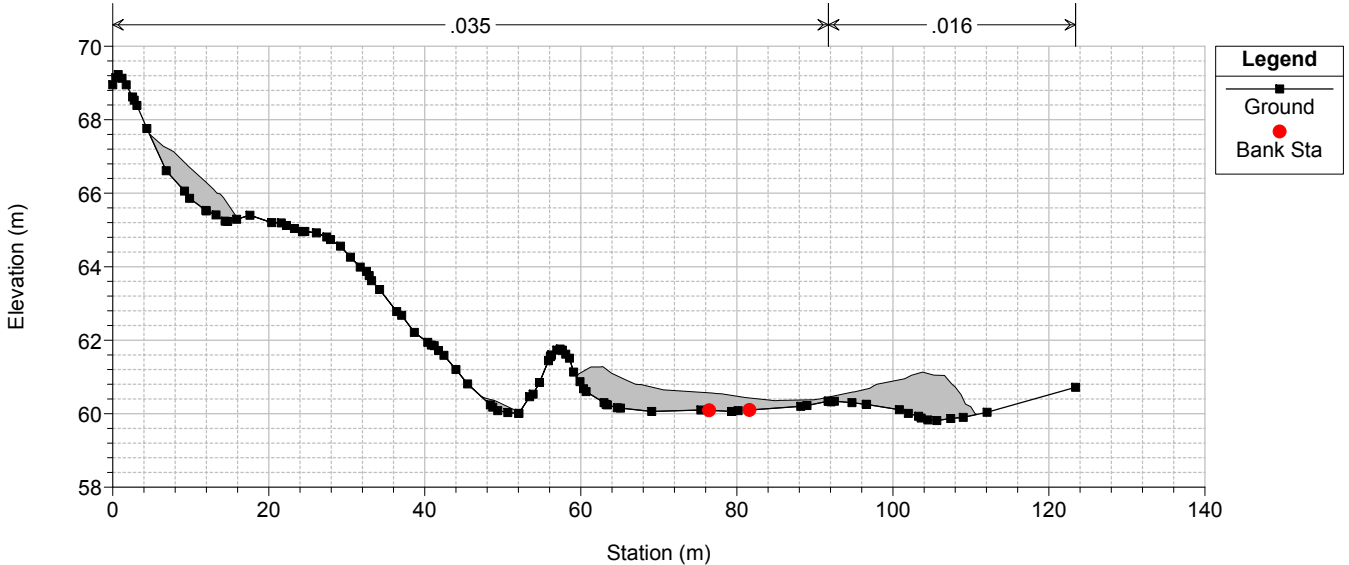
River = Rio Calabona Reach = Asta 2 RS = 2714.01 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

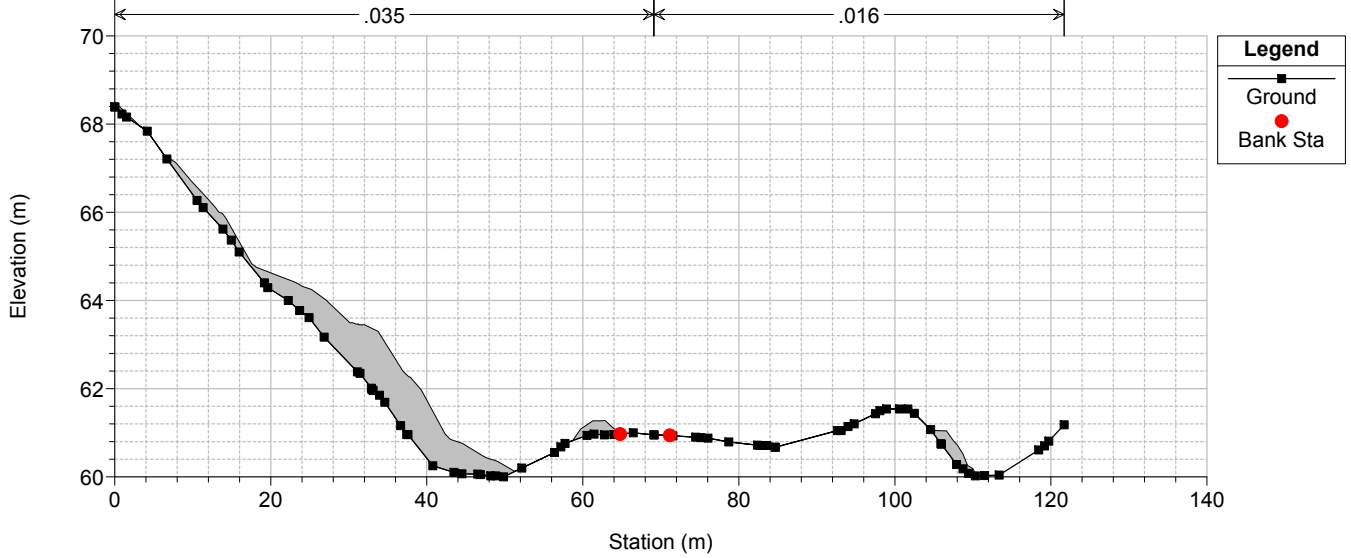
River = Rio Calabona Reach = Asta 2 RS = 2706.928 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

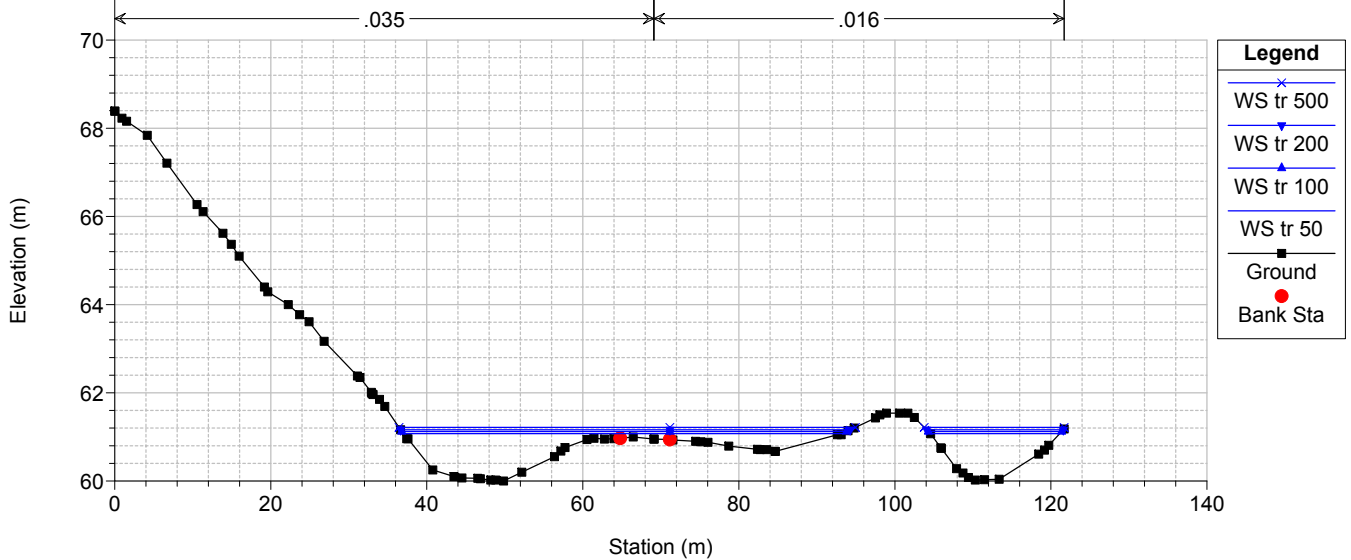
River = Rio Calabona Reach = Asta 2 RS = 2706.928 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

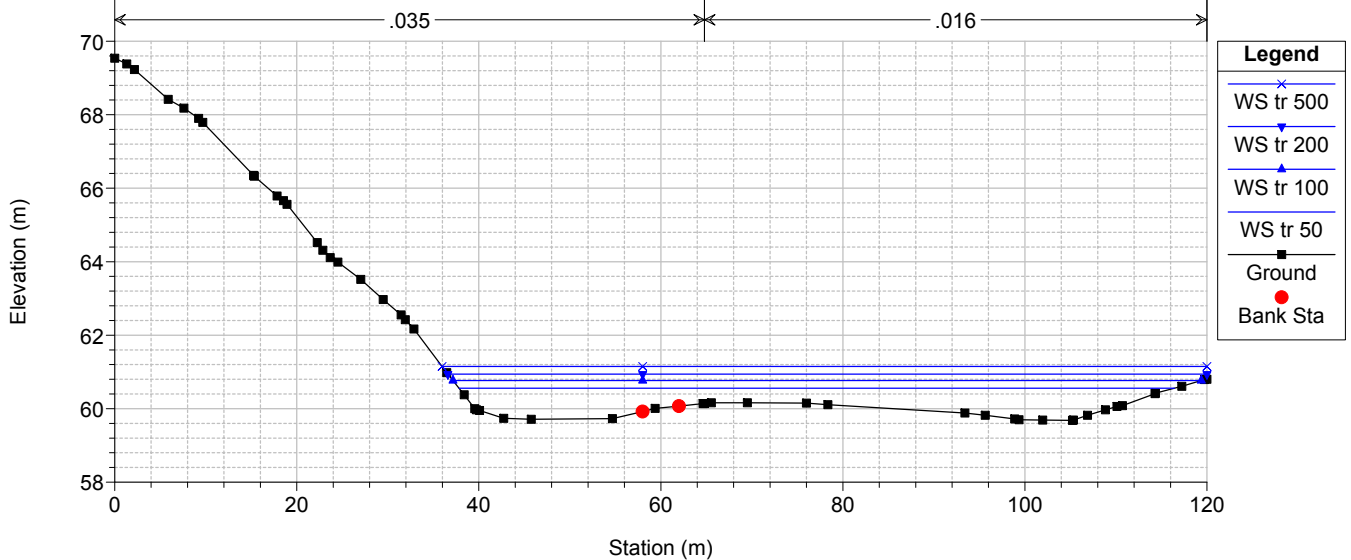
River = Rio Calabona Reach = Asta 2 RS = 2696.798 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

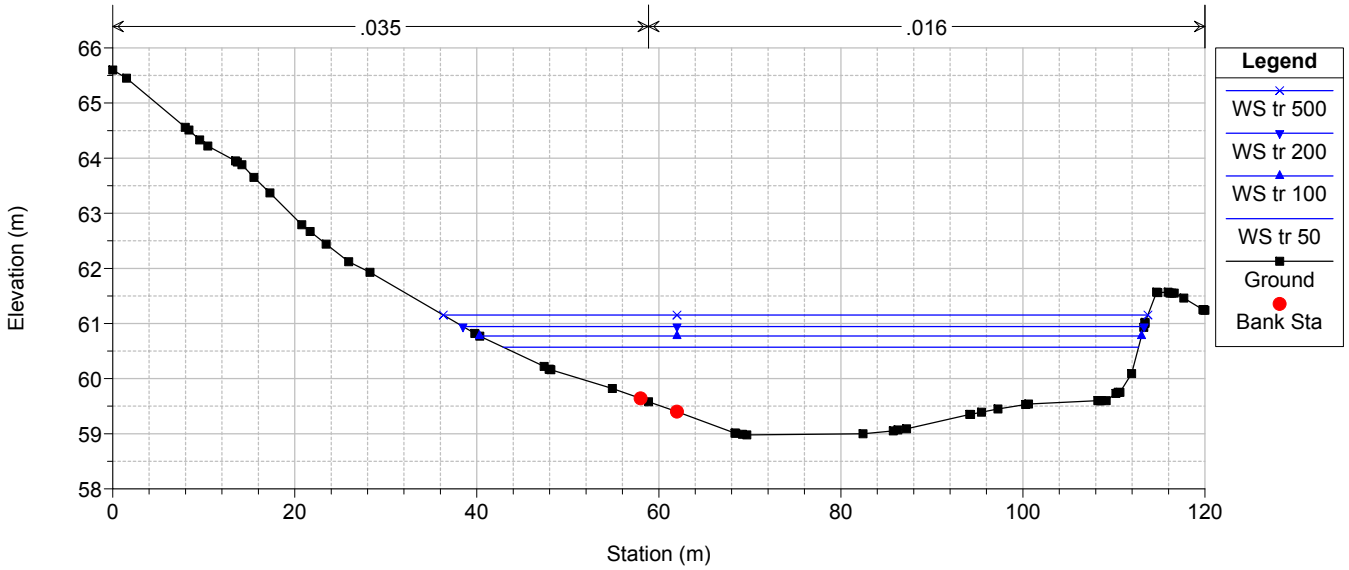
River = Rio Calabona Reach = Asta 2 RS = 2678.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

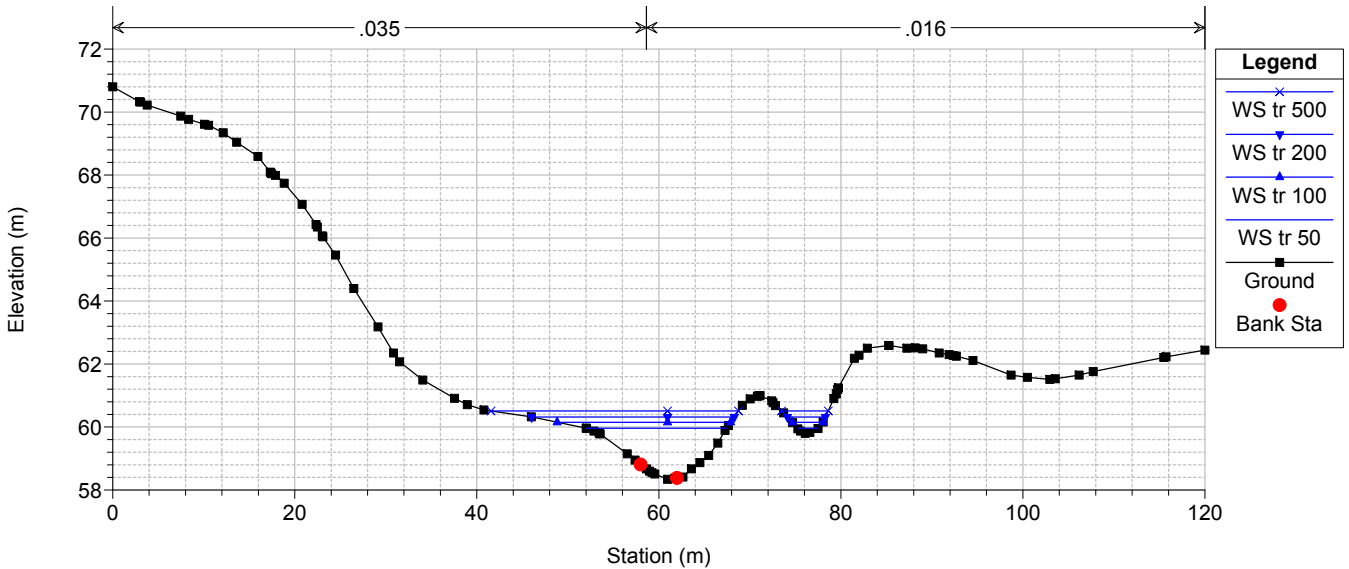
River = Rio Calabona Reach = Asta 2 RS = 2628.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

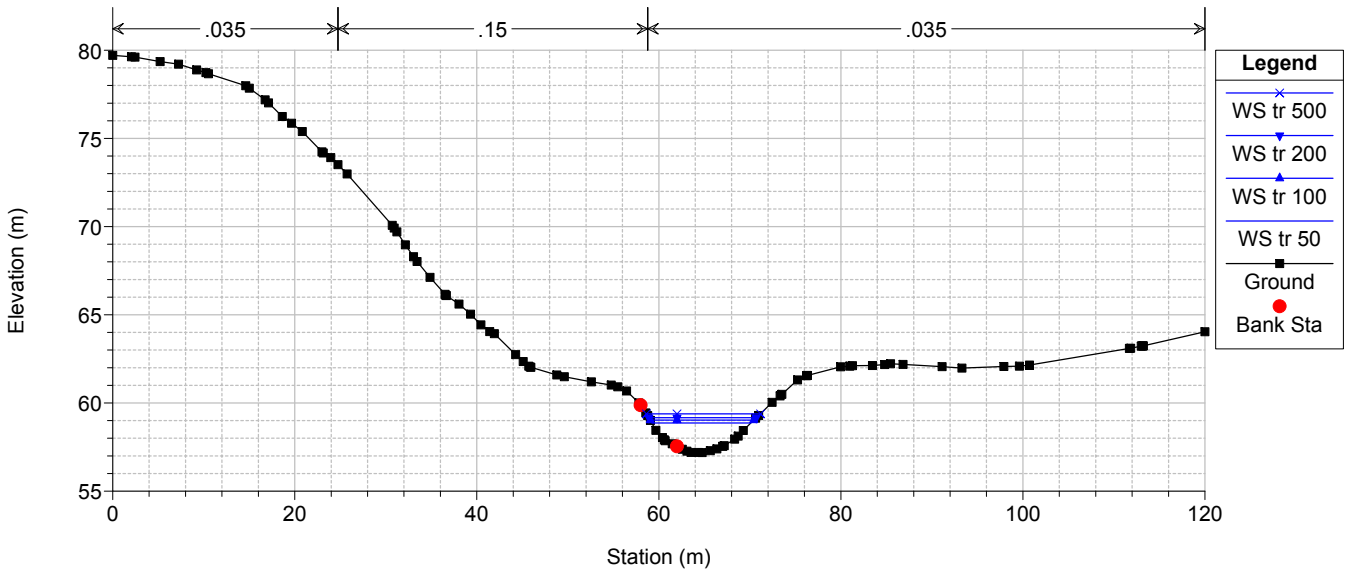
River = Rio Calabona Reach = Asta 2 RS = 2578.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

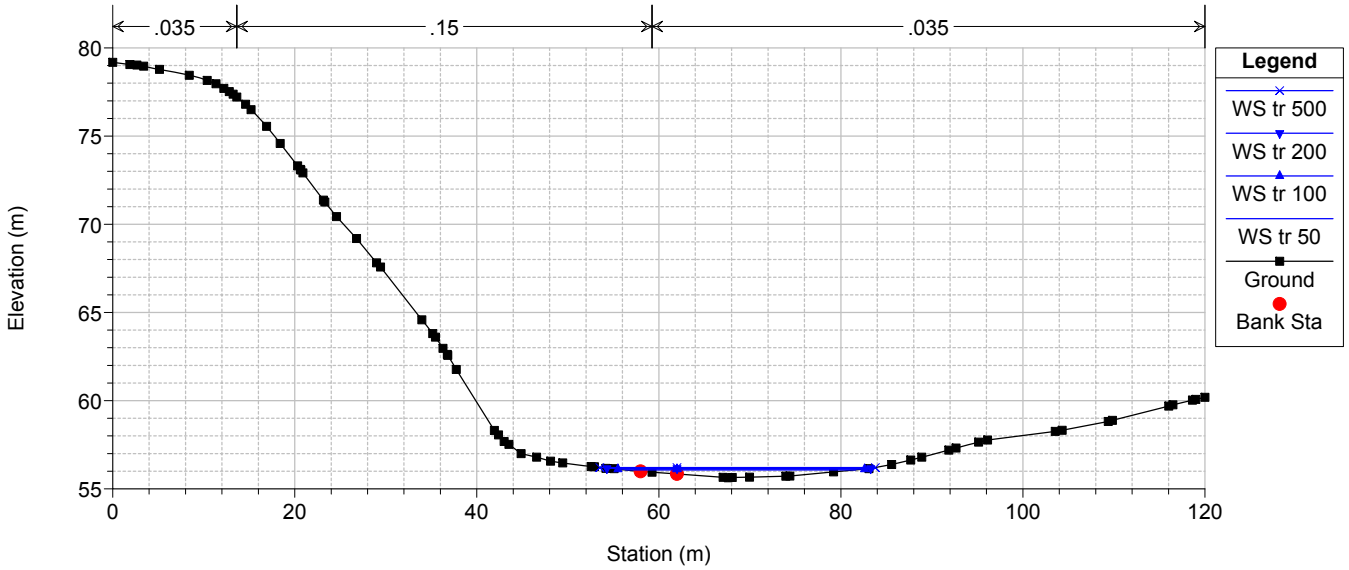
River = Rio Calabona Reach = Asta 2 RS = 2528.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

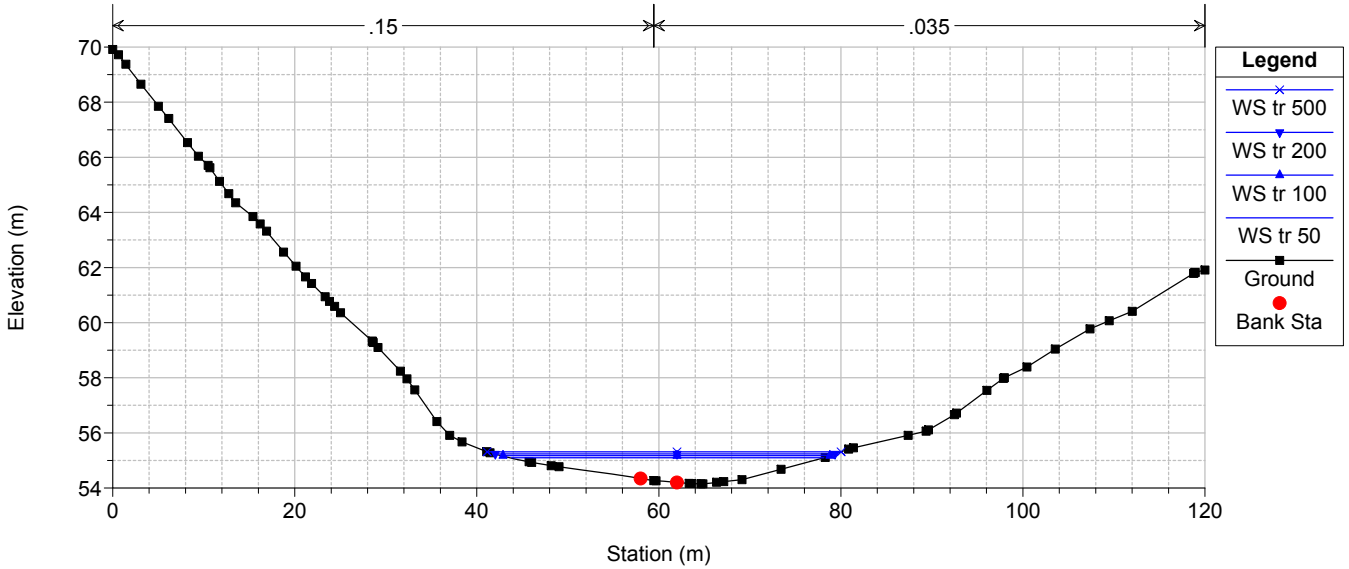
River = Rio Calabona Reach = Asta 2 RS = 2478.093 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

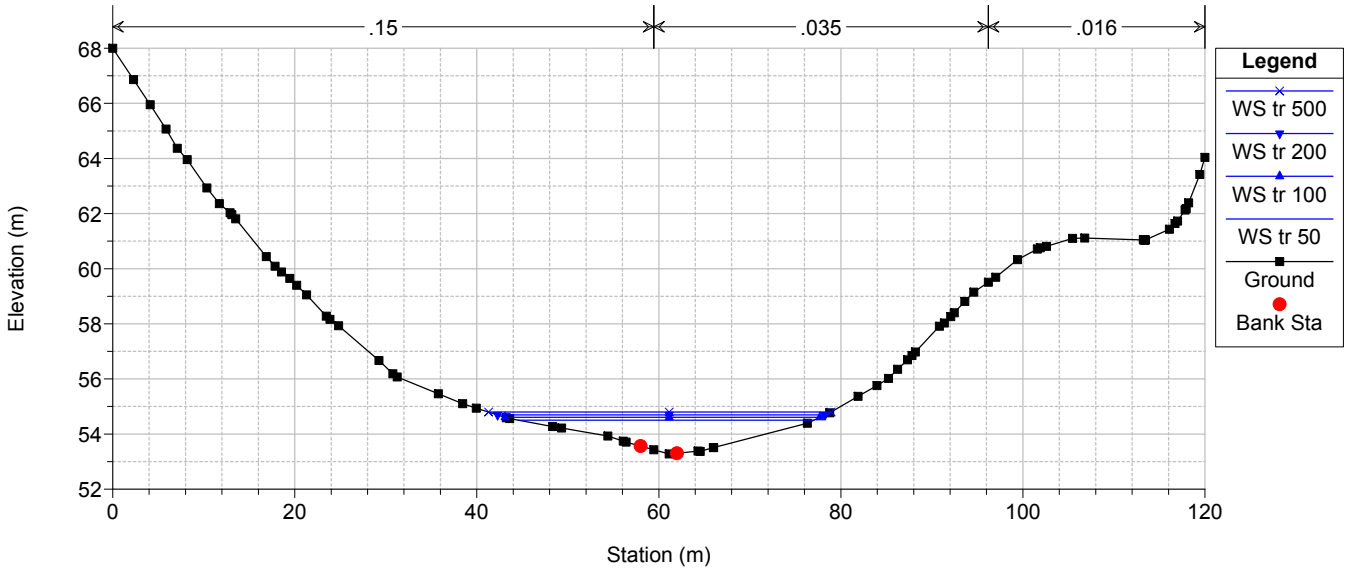
River = Rio Calabona Reach = Asta 2 RS = 2428.093 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

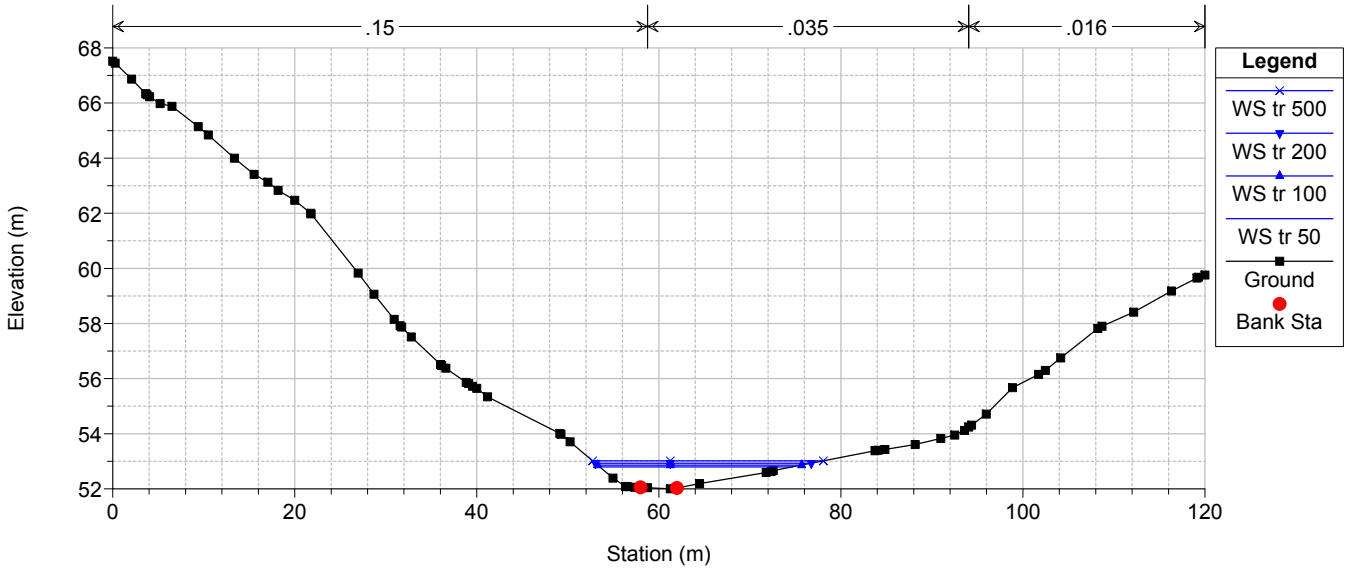
River = Rio Calabona Reach = Asta 2 RS = 2378.093 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

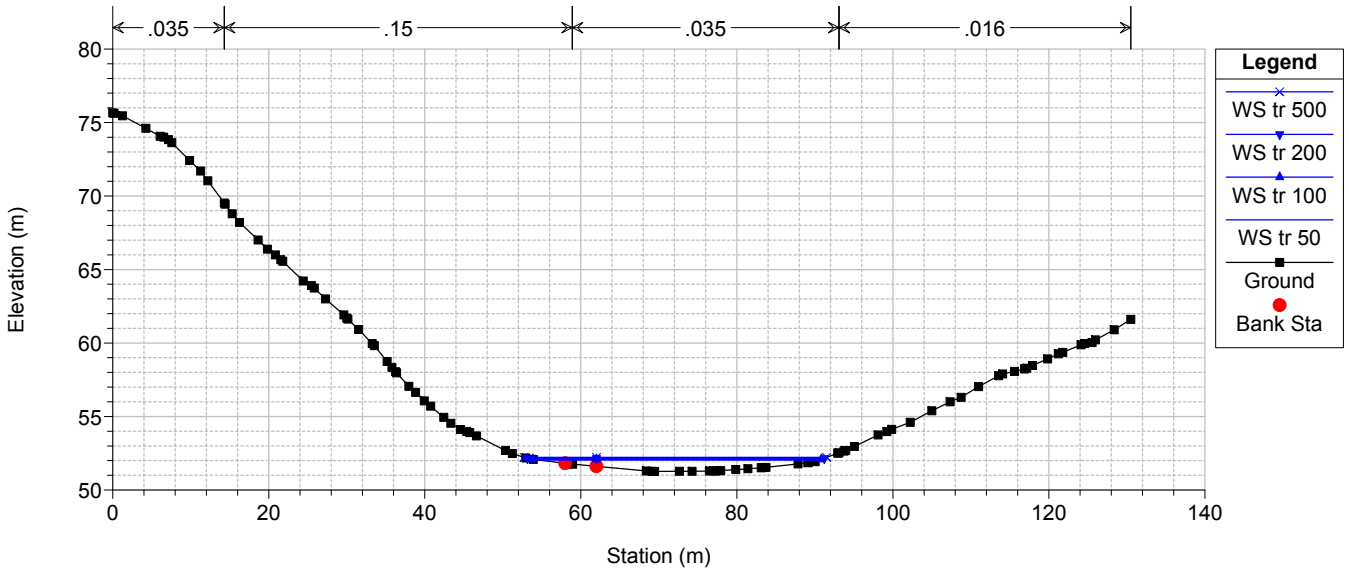
River = Rio Calabona Reach = Asta 2 RS = 2328.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

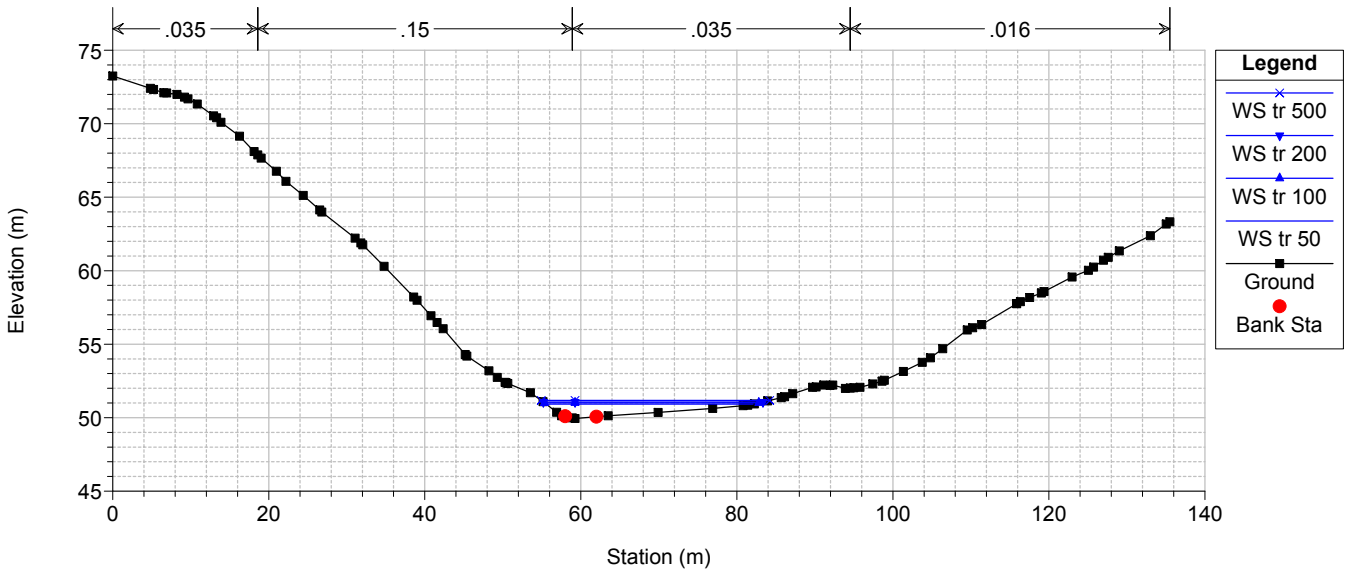
River = Rio Calabona Reach = Asta 2 RS = 2278.355 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

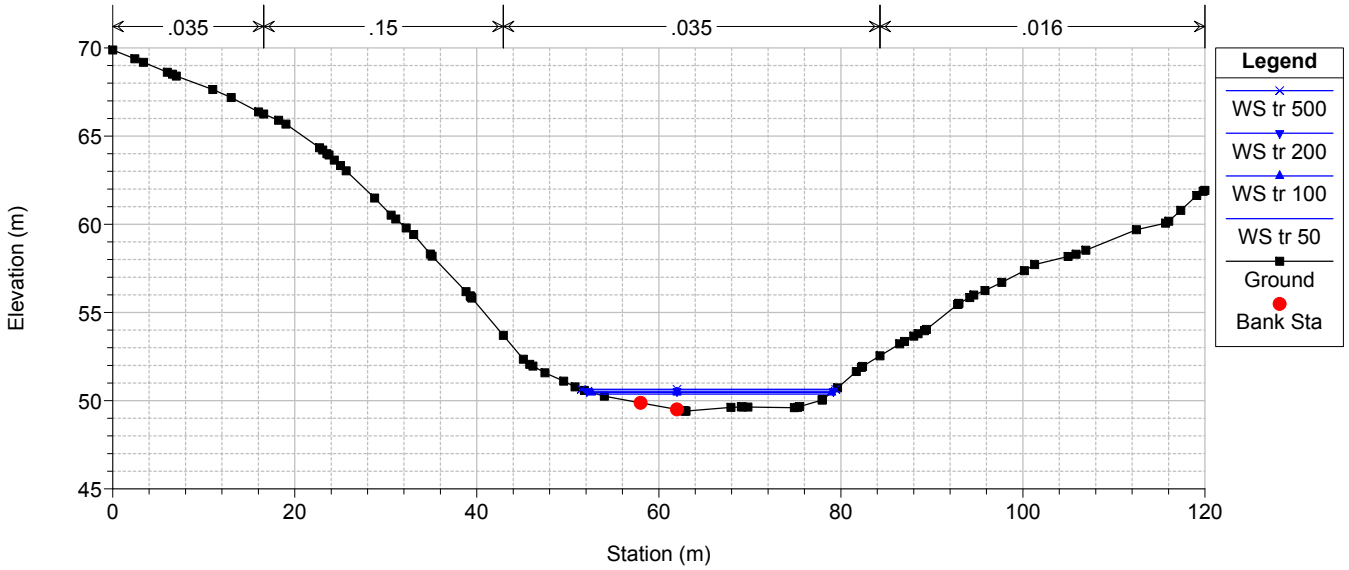
River = Rio Calabona Reach = Asta 2 RS = 2228.502 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

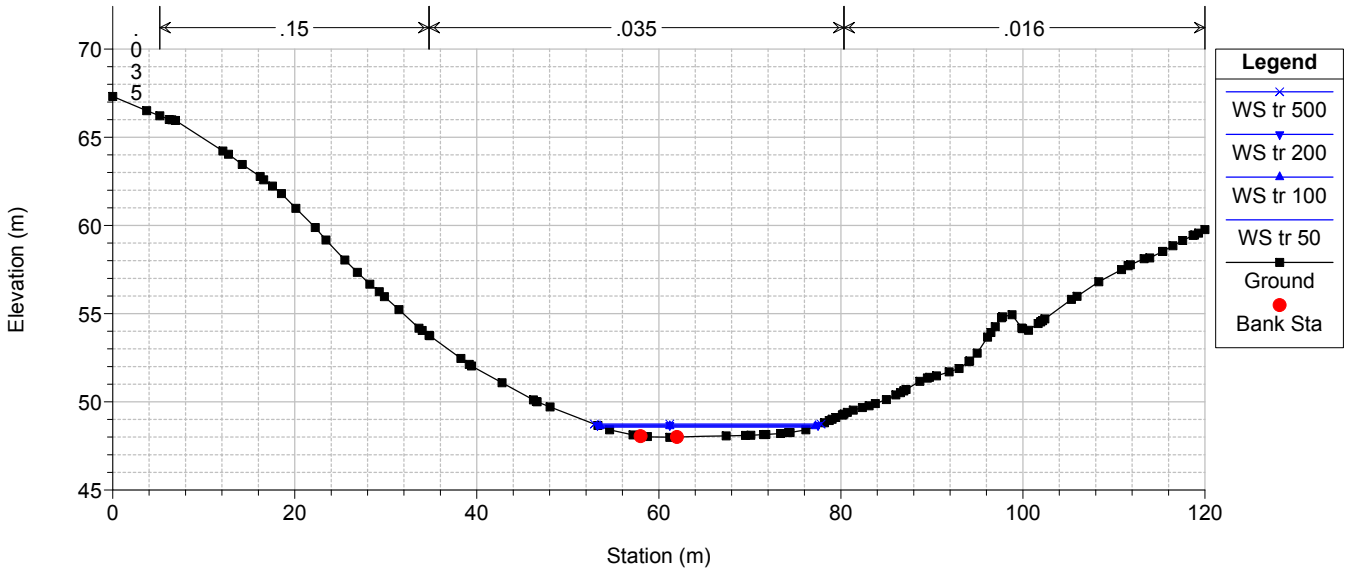
River = Rio Calabona Reach = Asta 2 RS = 2178.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

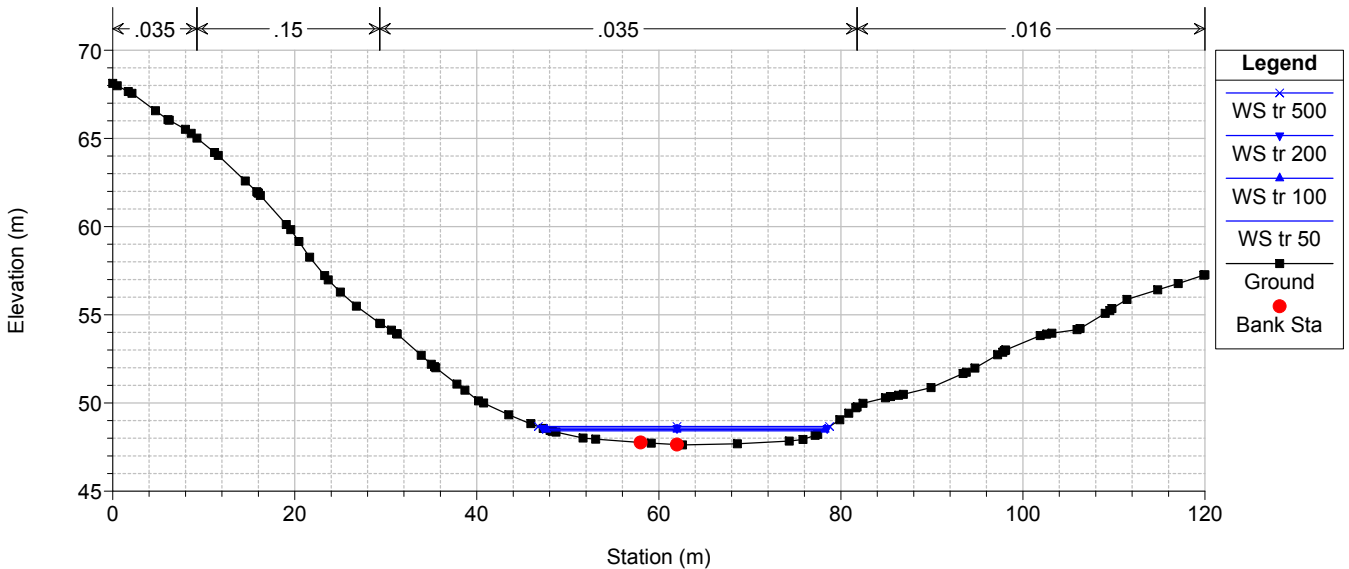
River = Rio Calabona Reach = Asta 2 RS = 2128.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

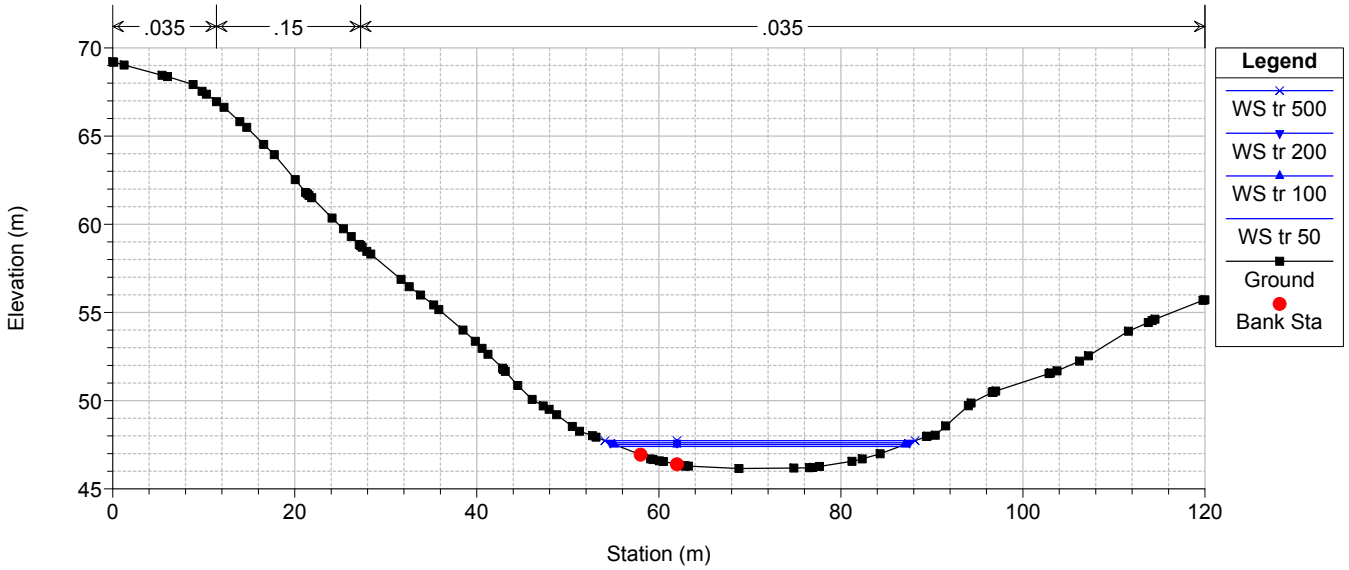
River = Rio Calabona Reach = Asta 2 RS = 2078.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

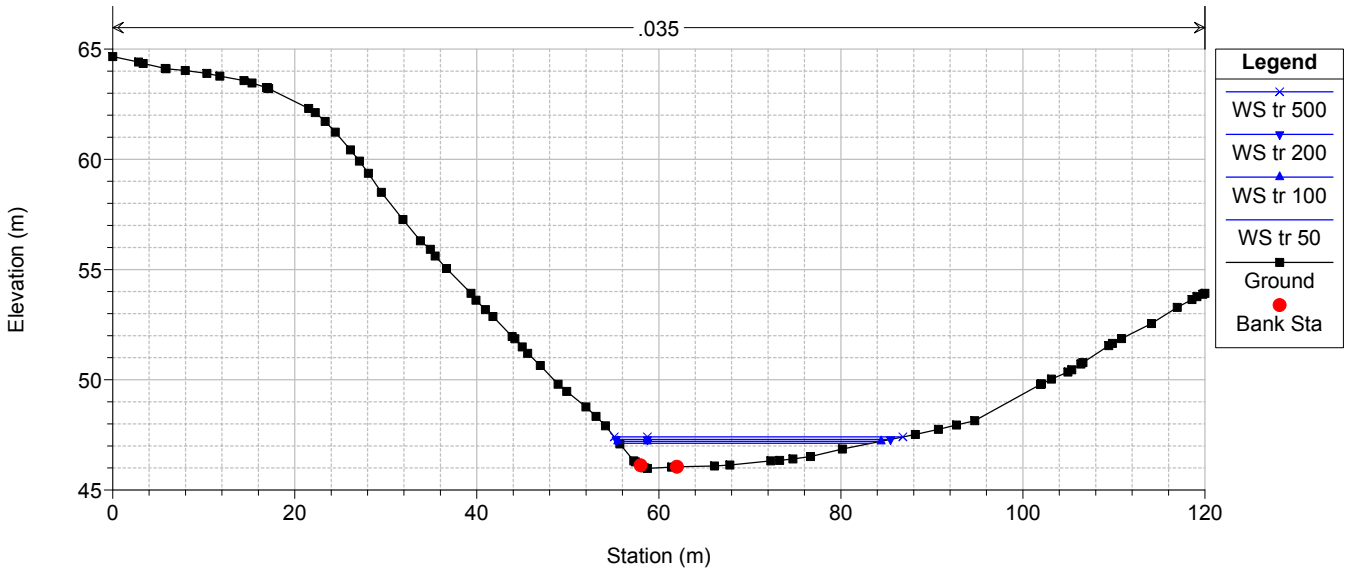
River = Rio Calabona Reach = Asta 2 RS = 2028.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

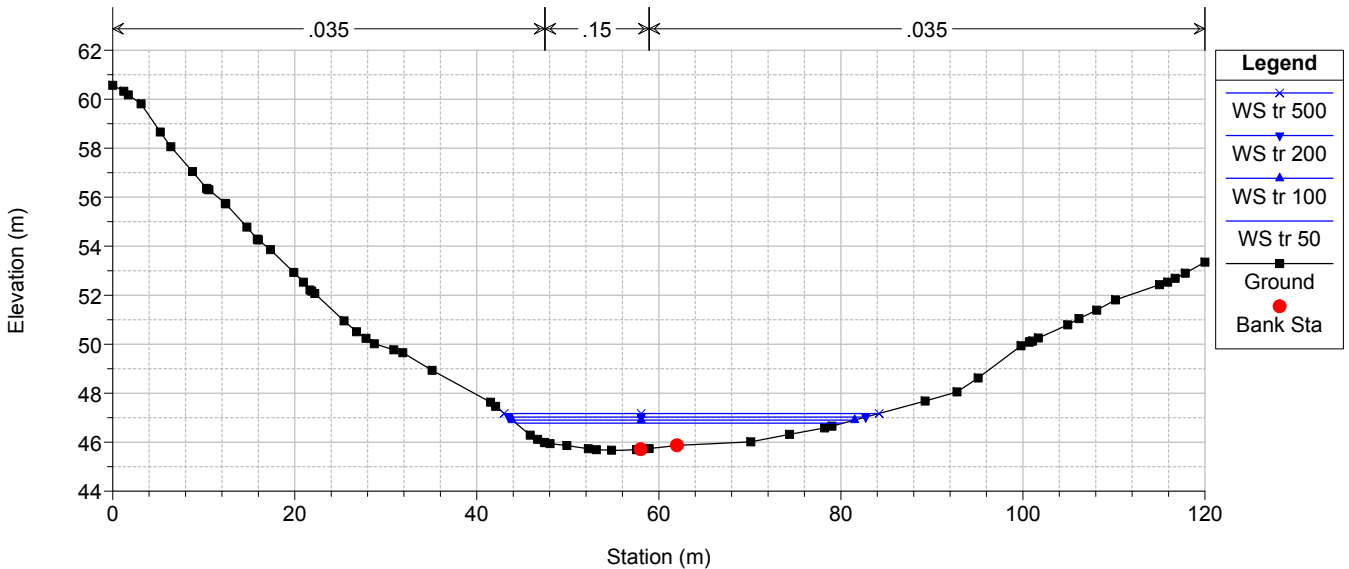
River = Rio Calabona Reach = Asta 2 RS = 1978.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

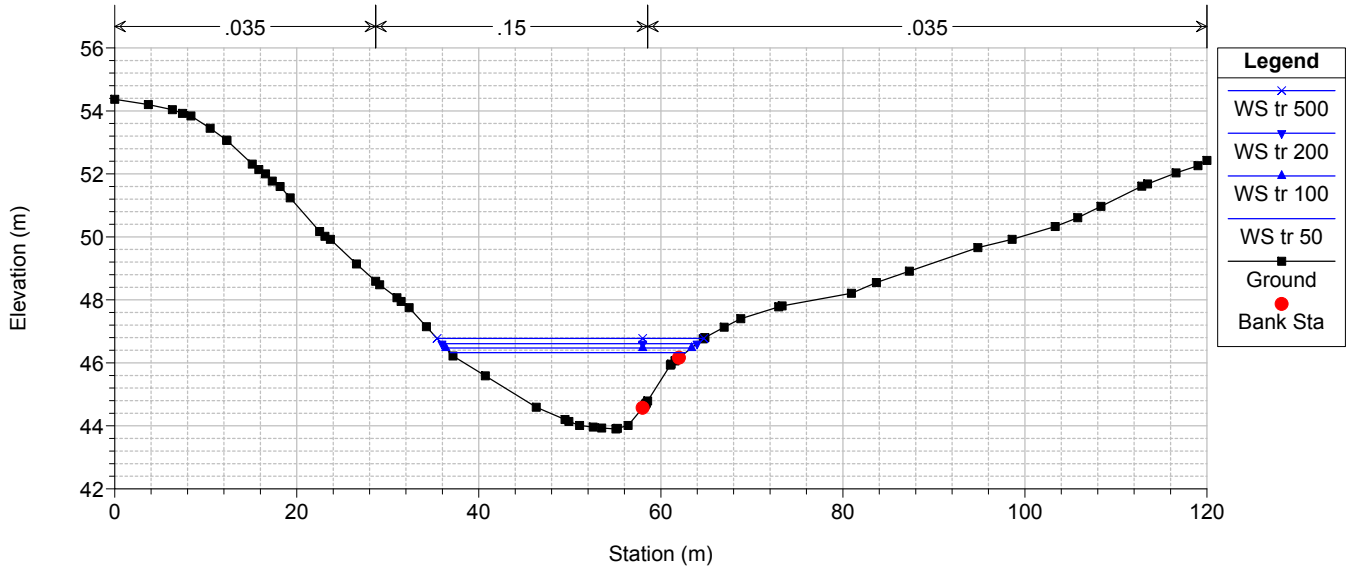
River = Rio Calabona Reach = Asta 2 RS = 1928.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

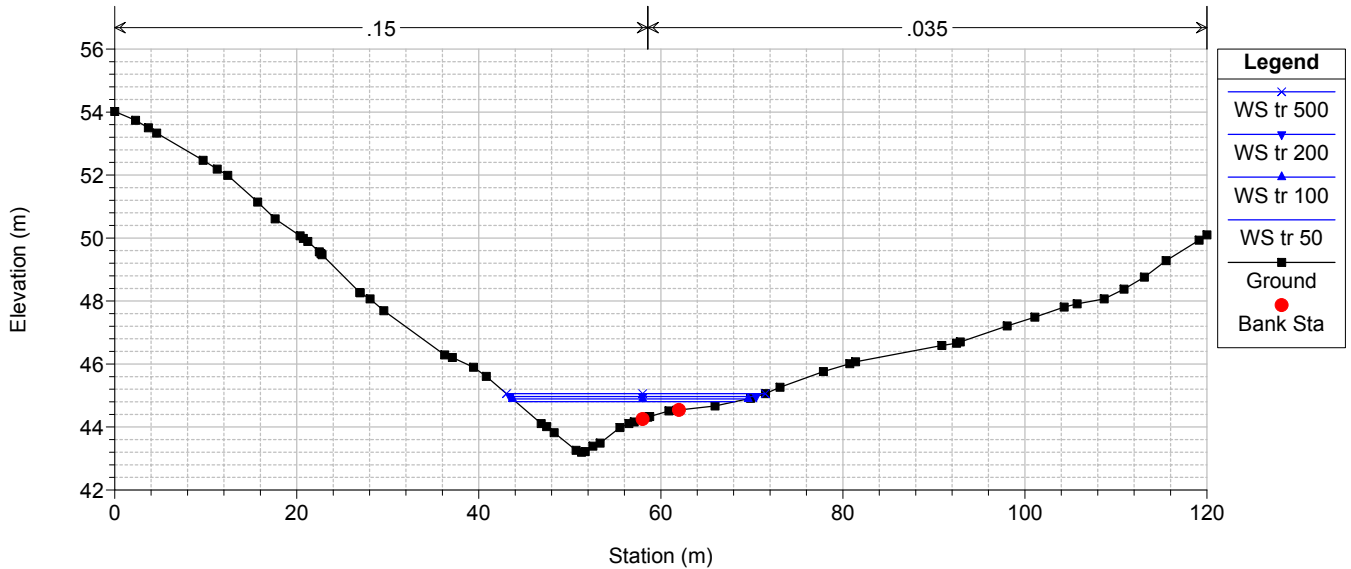
River = Rio Calabona Reach = Asta 2 RS = 1878.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

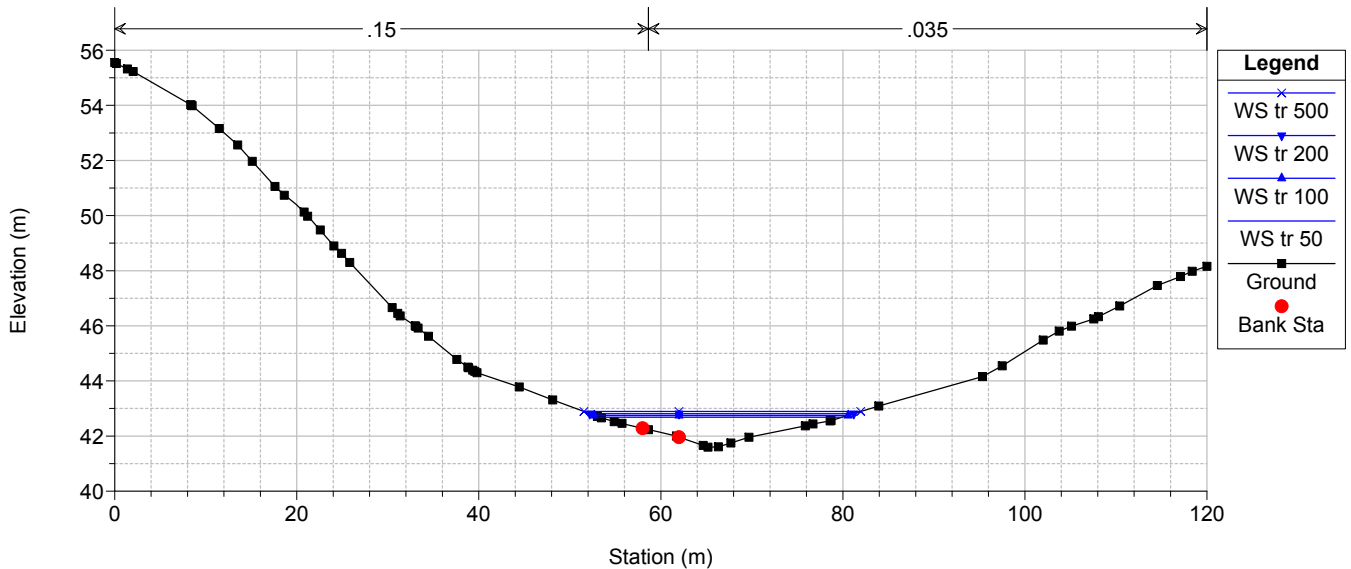
River = Rio Calabona Reach = Asta 2 RS = 1828.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

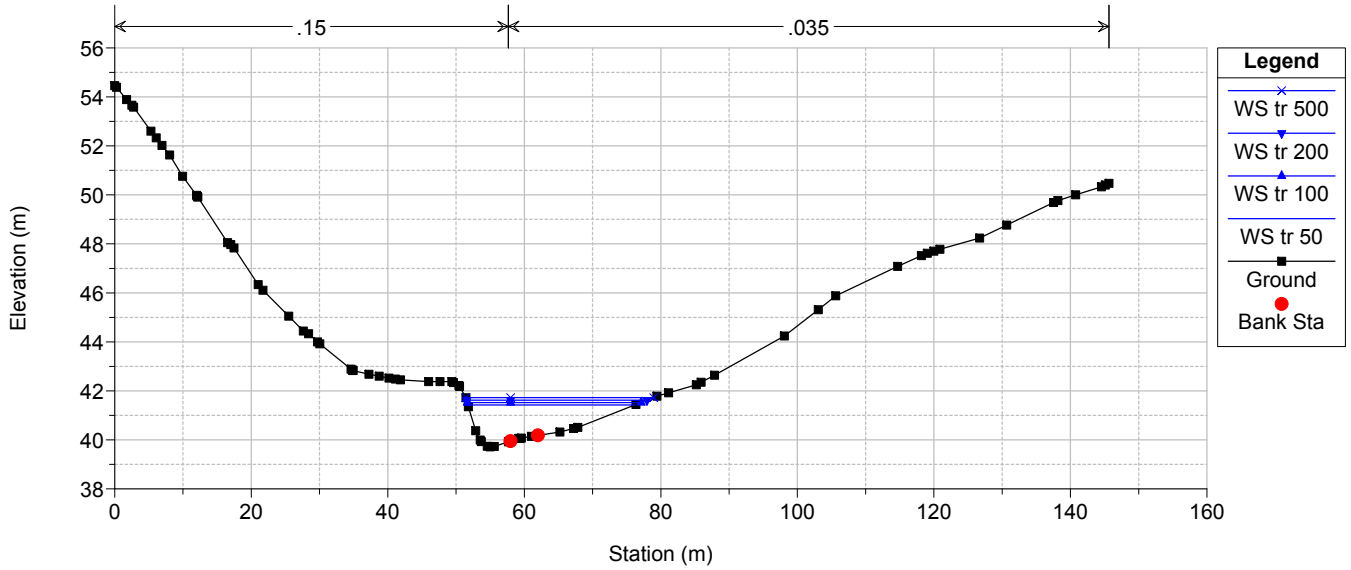
River = Rio Calabona Reach = Asta 2 RS = 1778.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

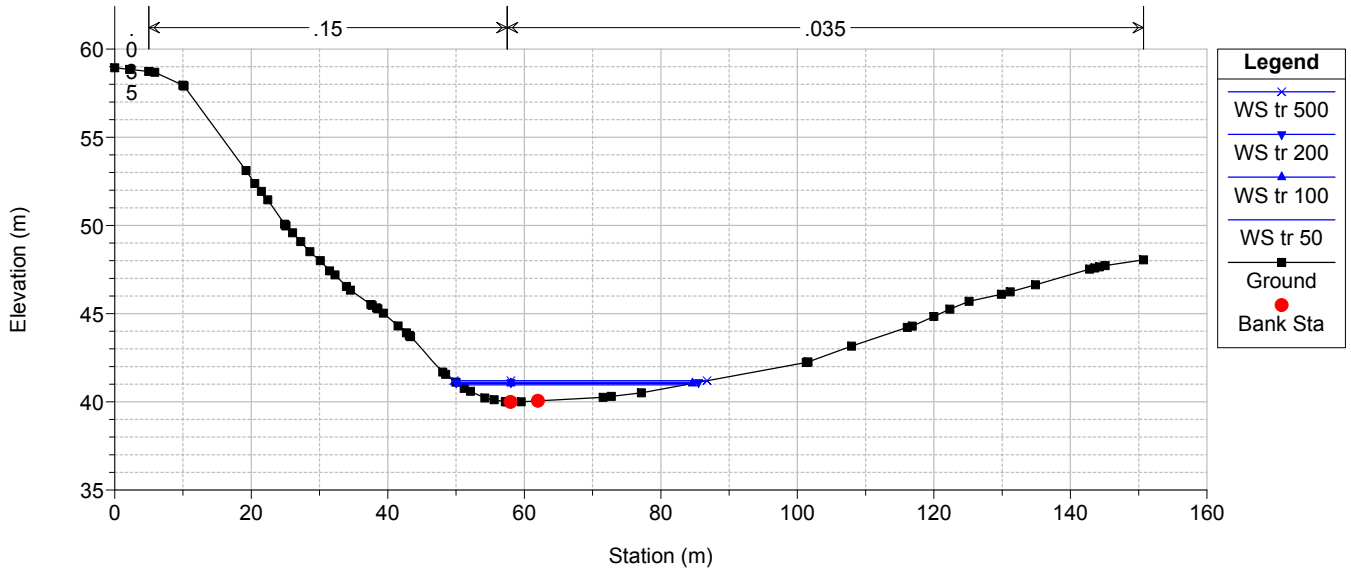
River = Rio Calabona Reach = Asta 2 RS = 1728.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

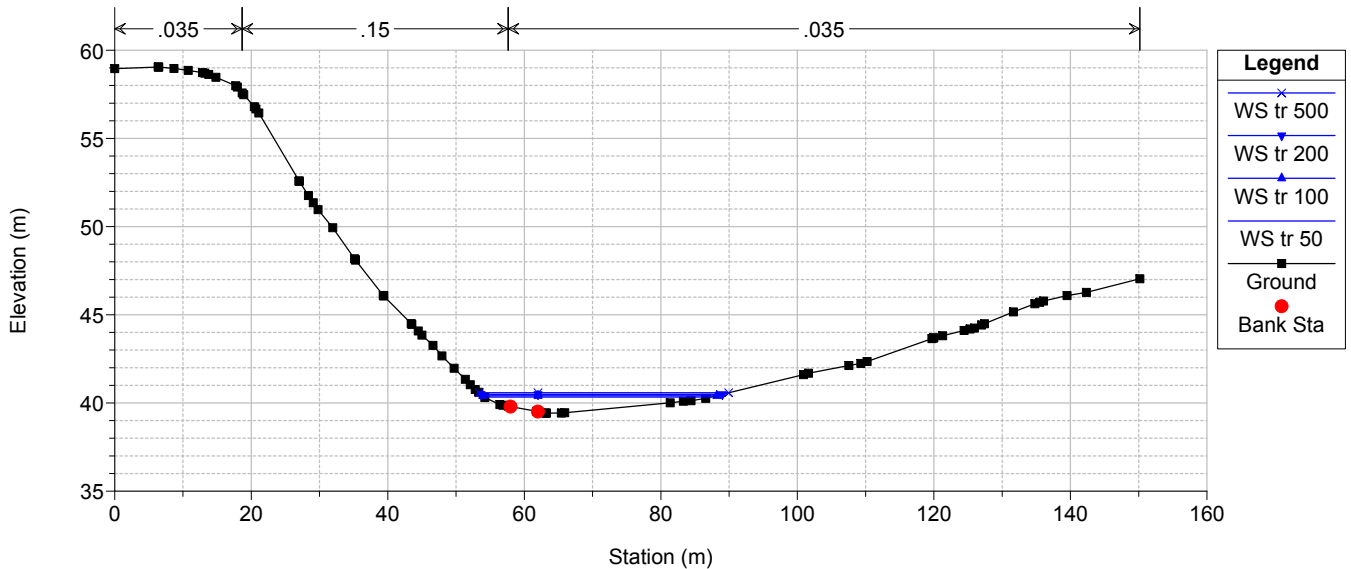
River = Rio Calabona Reach = Asta 2 RS = 1678.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

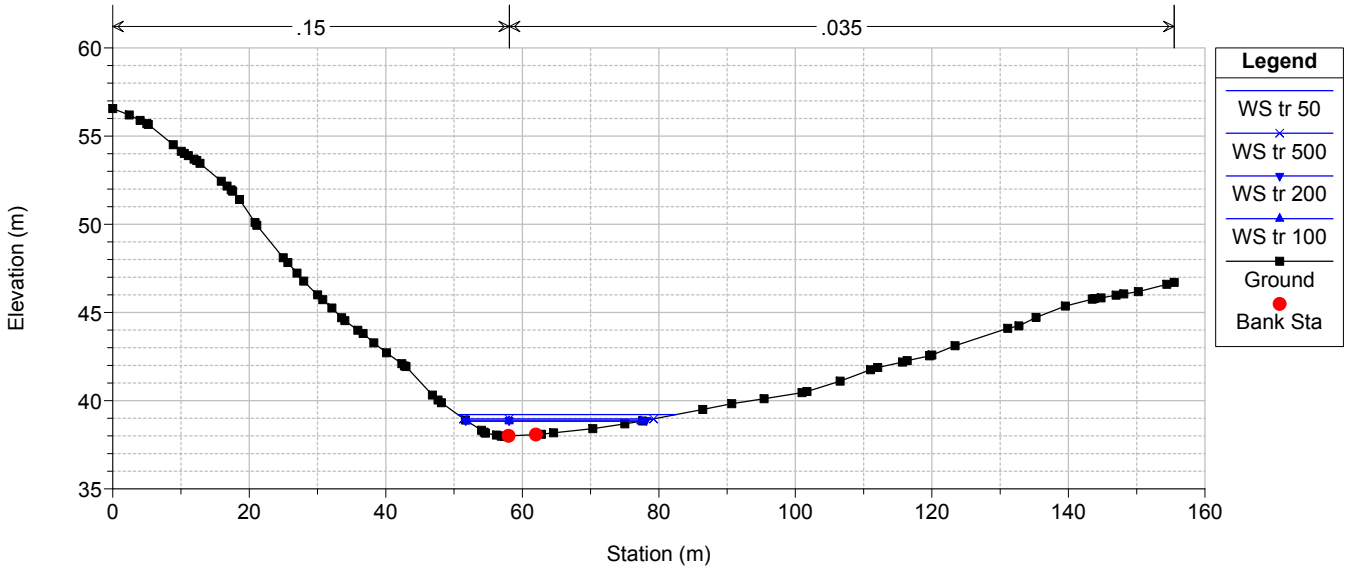
River = Rio Calabona Reach = Asta 2 RS = 1628.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

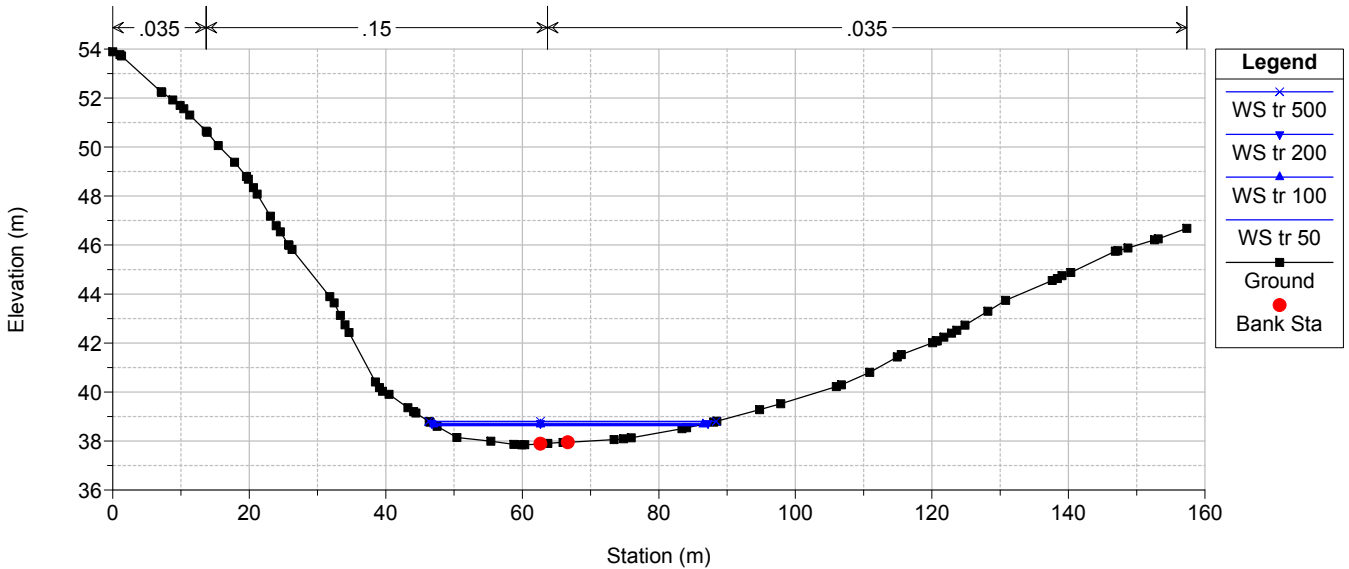
River = Rio Calabona Reach = Asta 2 RS = 1578.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

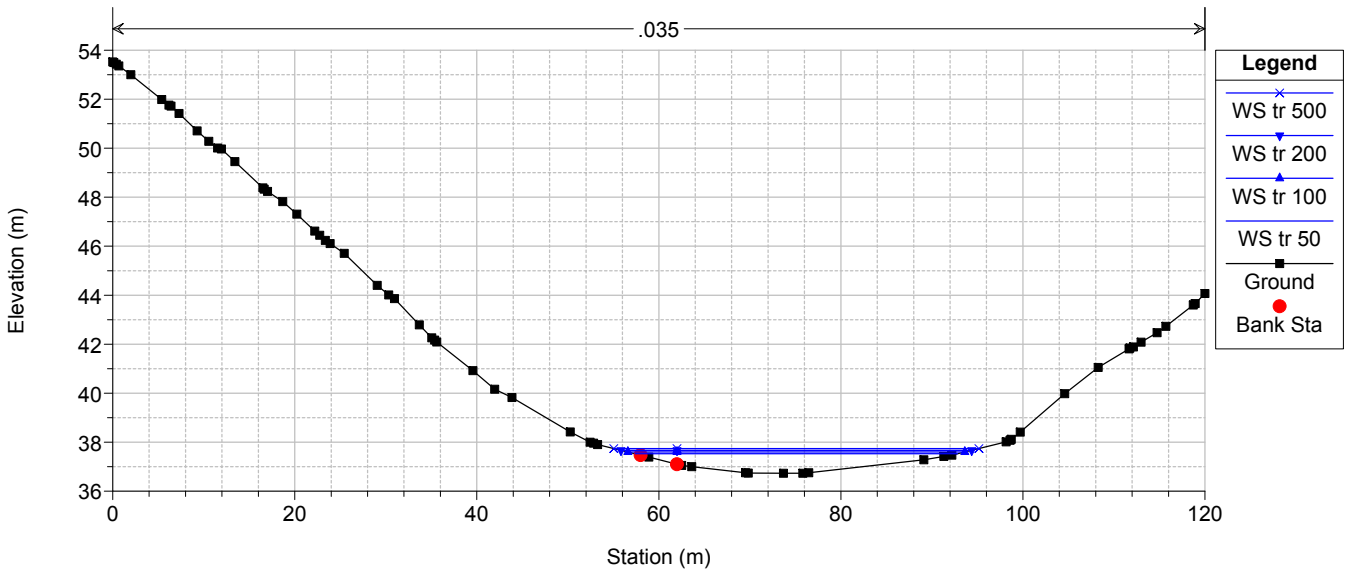
River = Rio Calabona Reach = Asta 2 RS = 1534.492 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

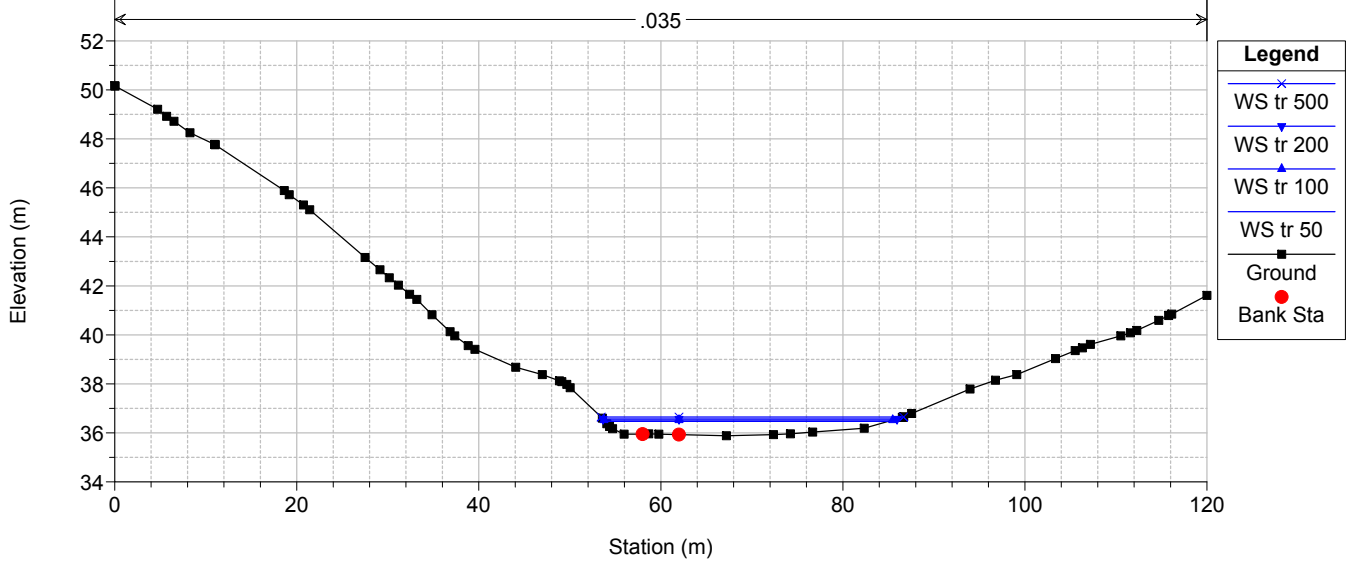
River = Rio Calabona Reach = Asta 2 RS = 1478.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

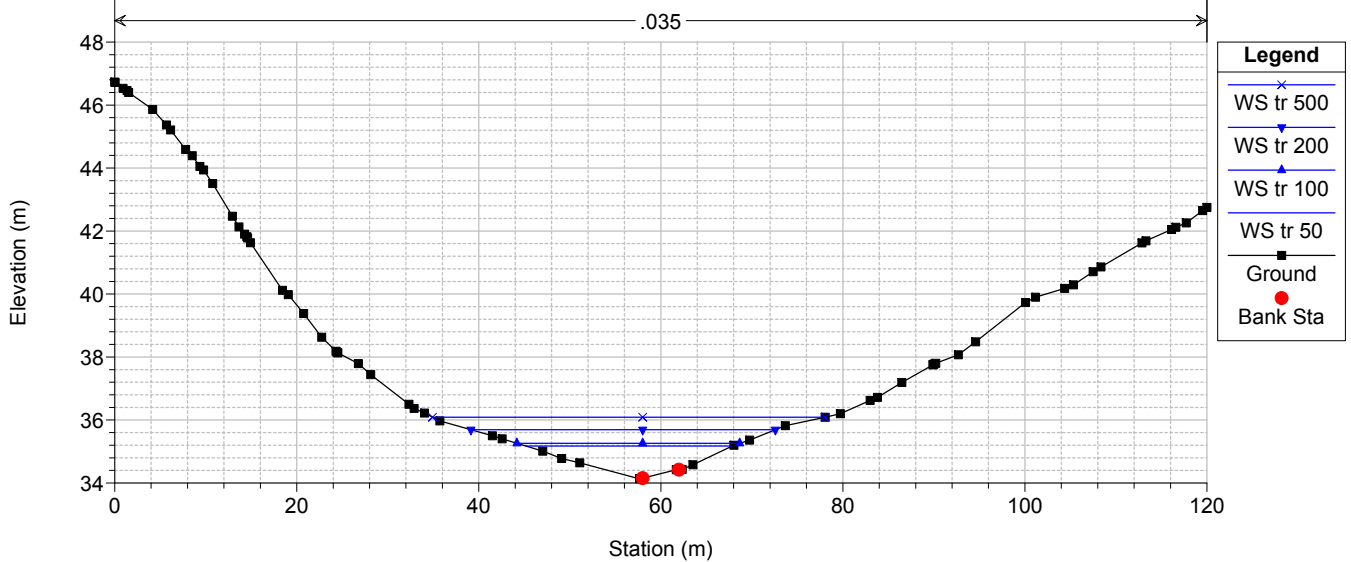
River = Rio Calabona Reach = Asta 2 RS = 1428.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

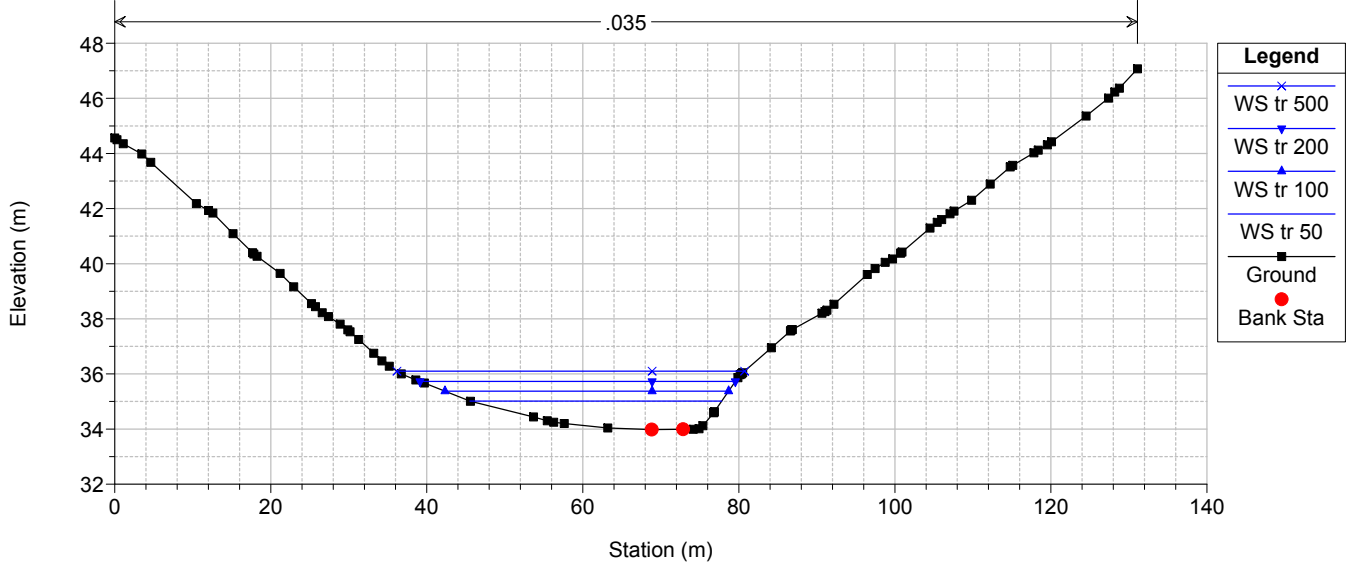
River = Rio Calabona Reach = Asta 2 RS = 1378.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

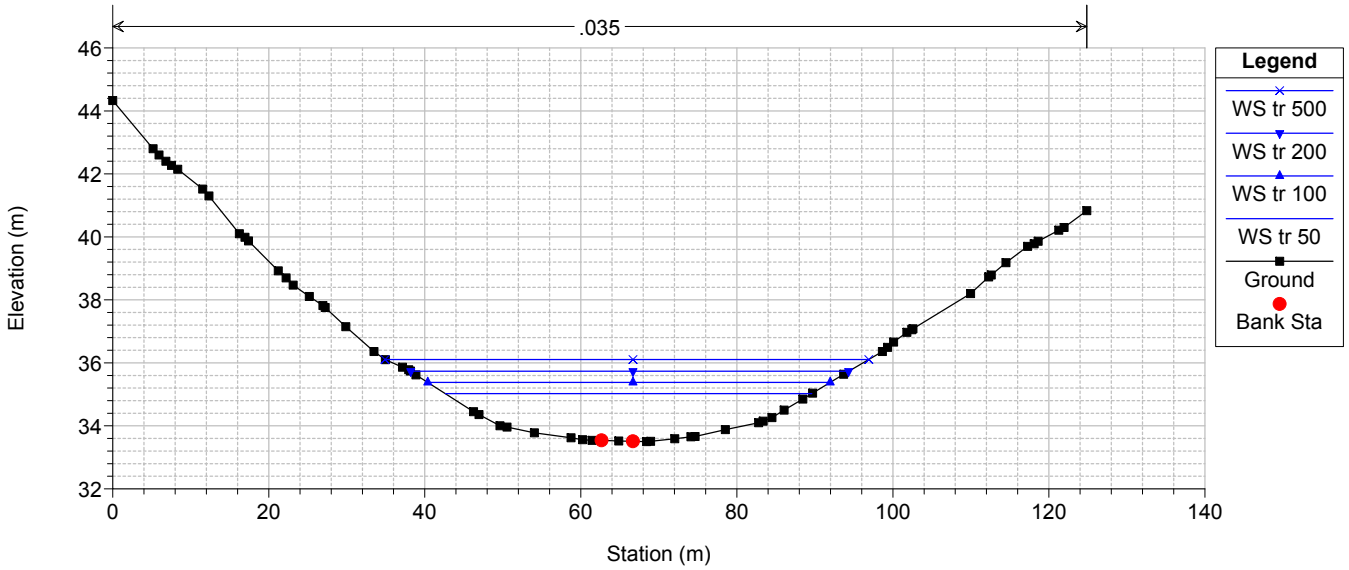
River = Rio Calabona Reach = Asta 2 RS = 1333.456 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

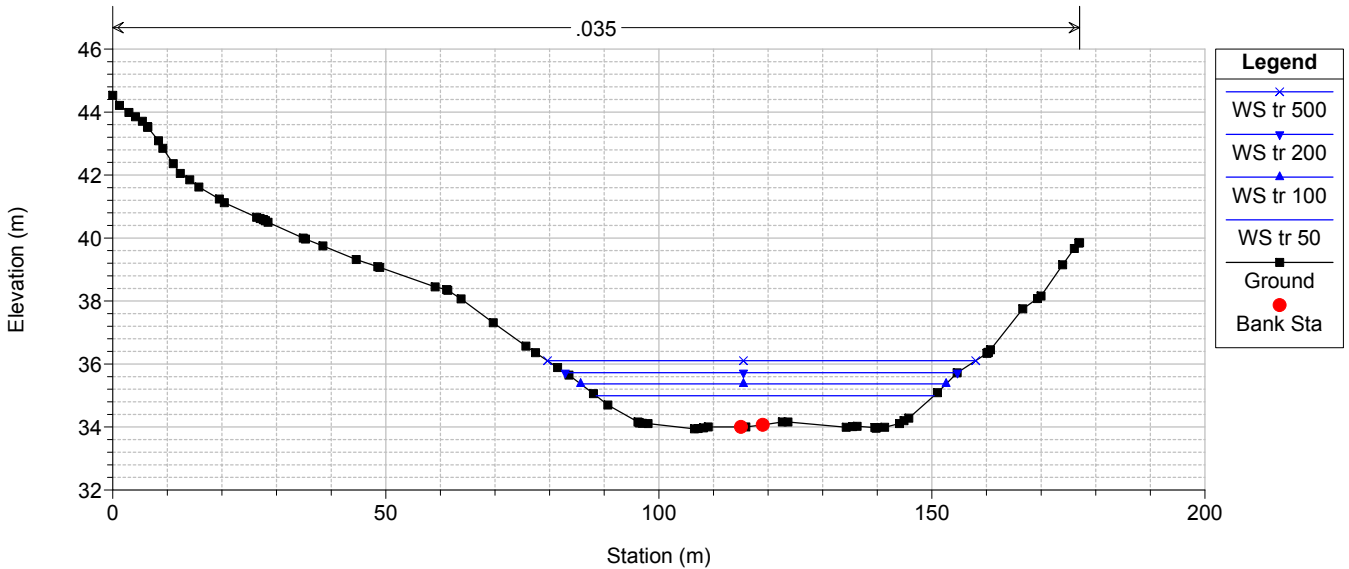
River = Rio Calabona Reach = Asta 2 RS = 1273.433 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

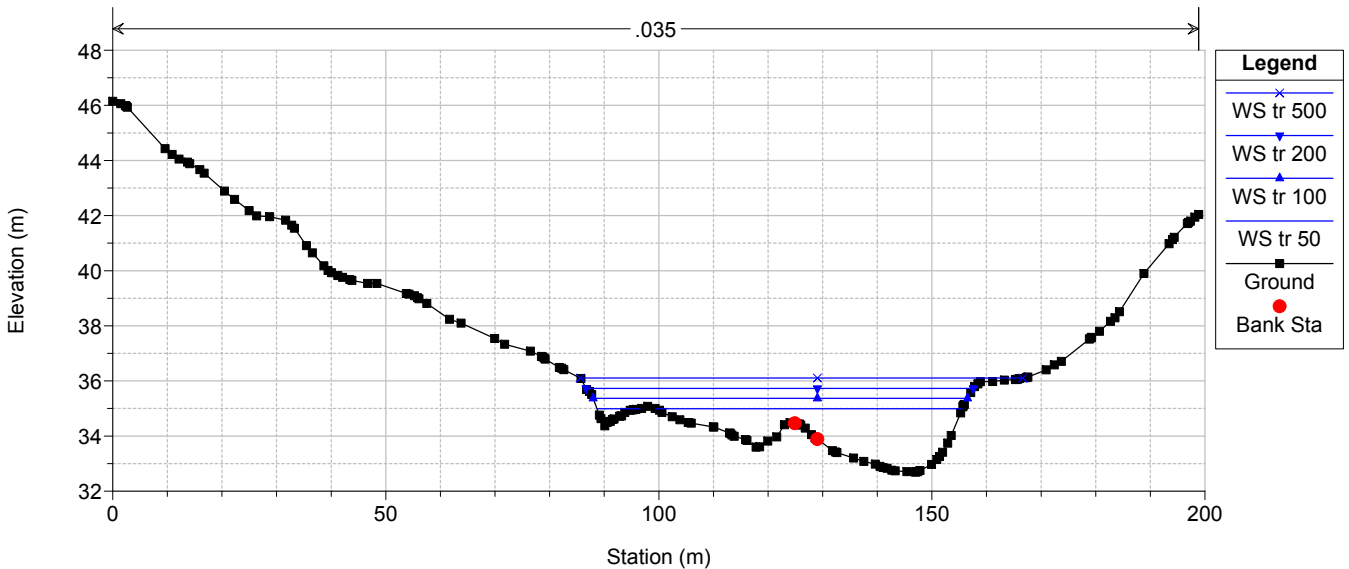
River = Rio Calabona Reach = Asta 2 RS = 1228.216 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

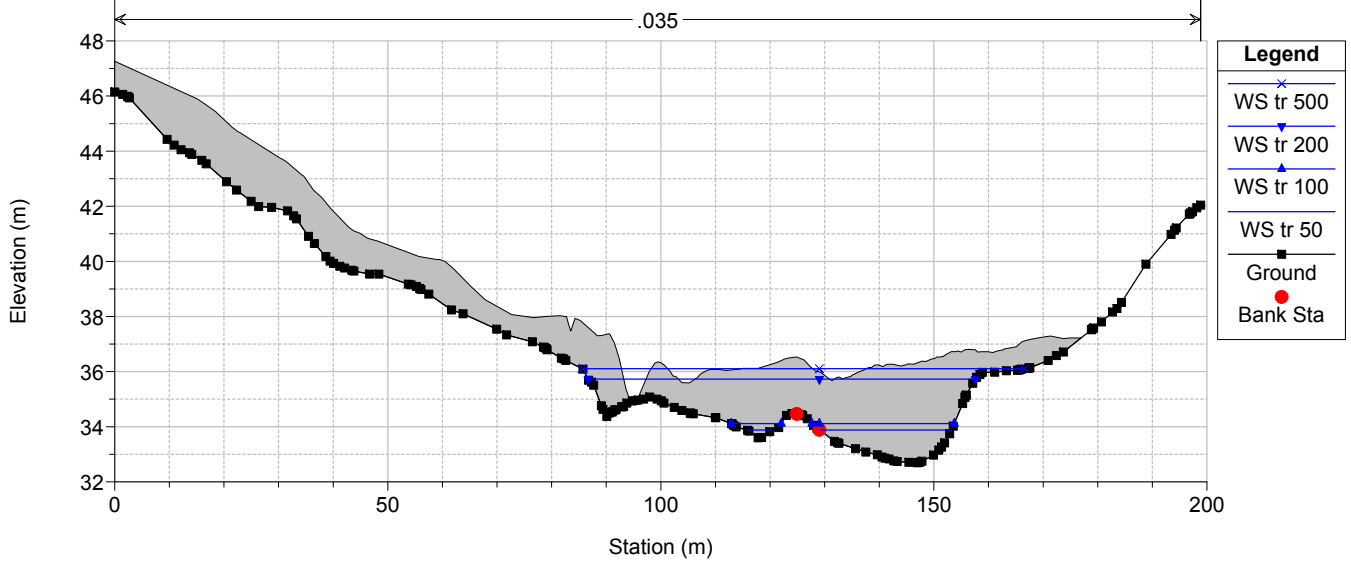
River = Rio Calabona Reach = Asta 2 RS = 1185.404 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

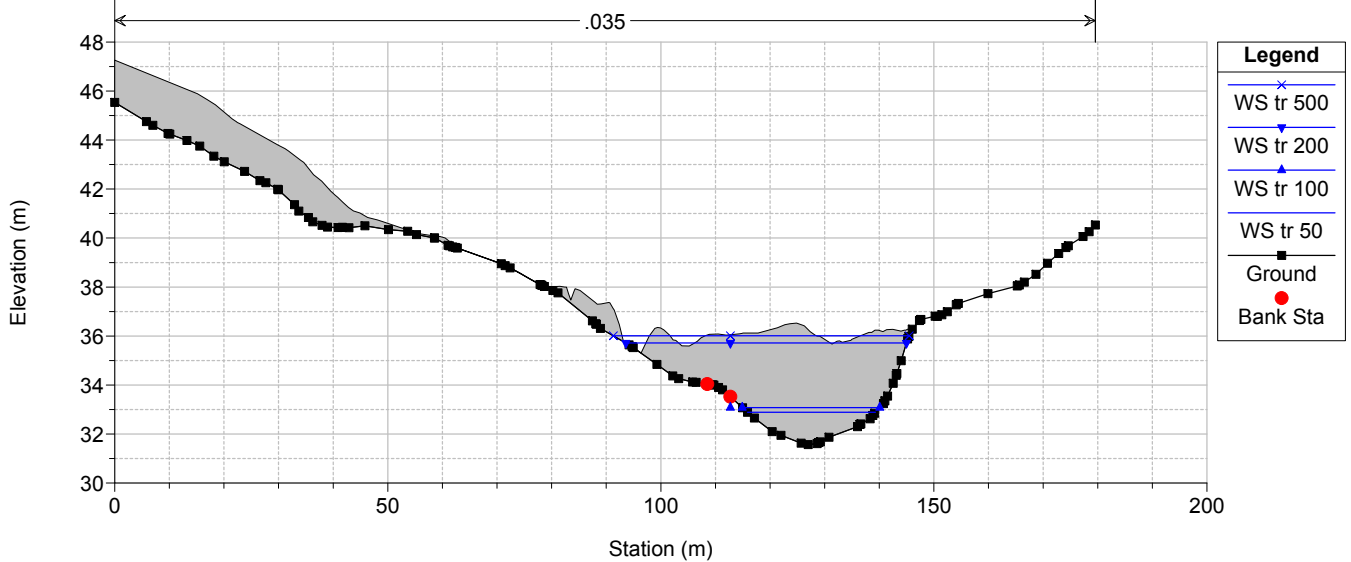
River = Rio Calabona Reach = Asta 2 RS = 1175.988 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

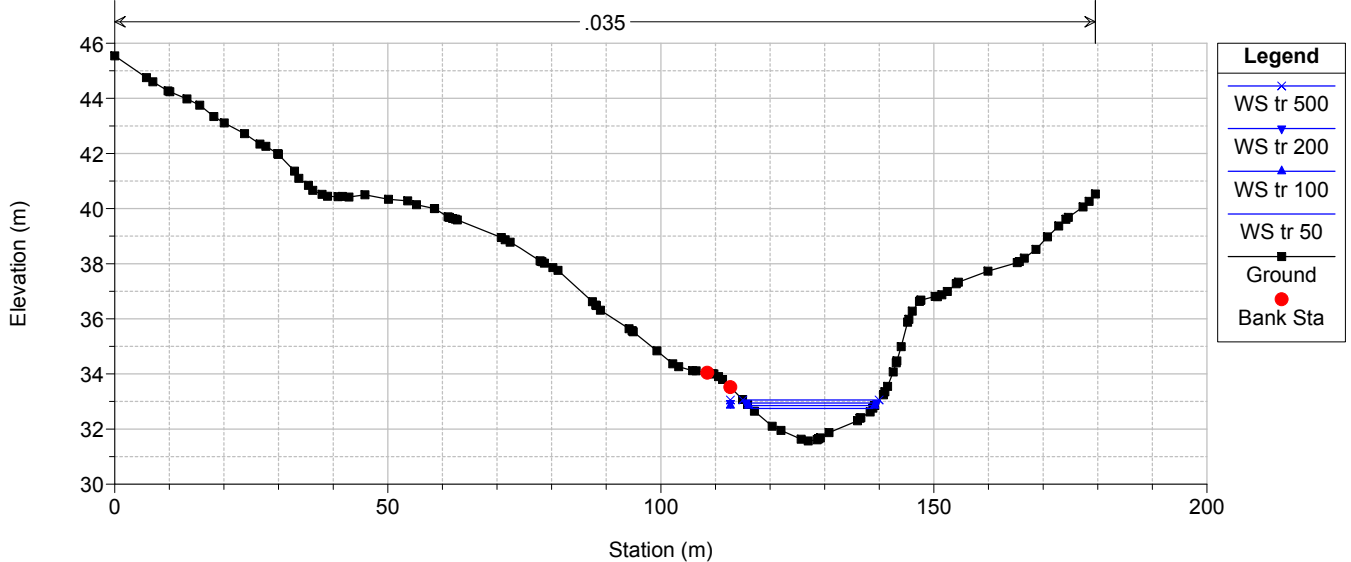
River = Rio Calabona Reach = Asta 2 RS = 1175.988 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

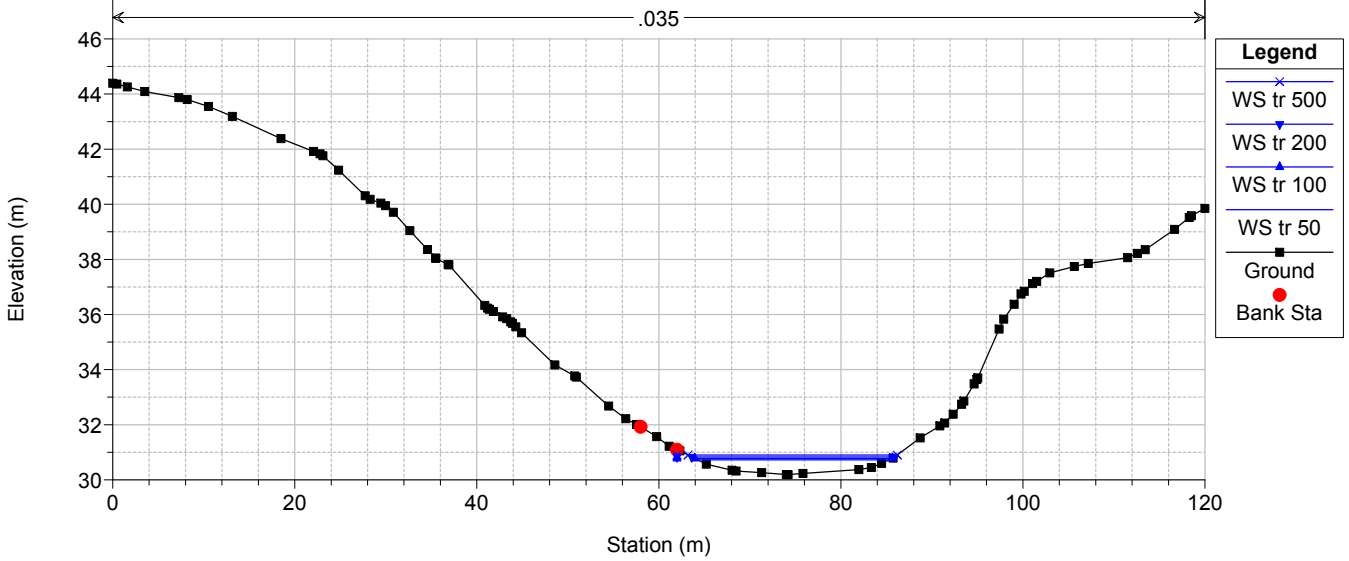
River = Rio Calabona Reach = Asta 2 RS = 1163.703 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

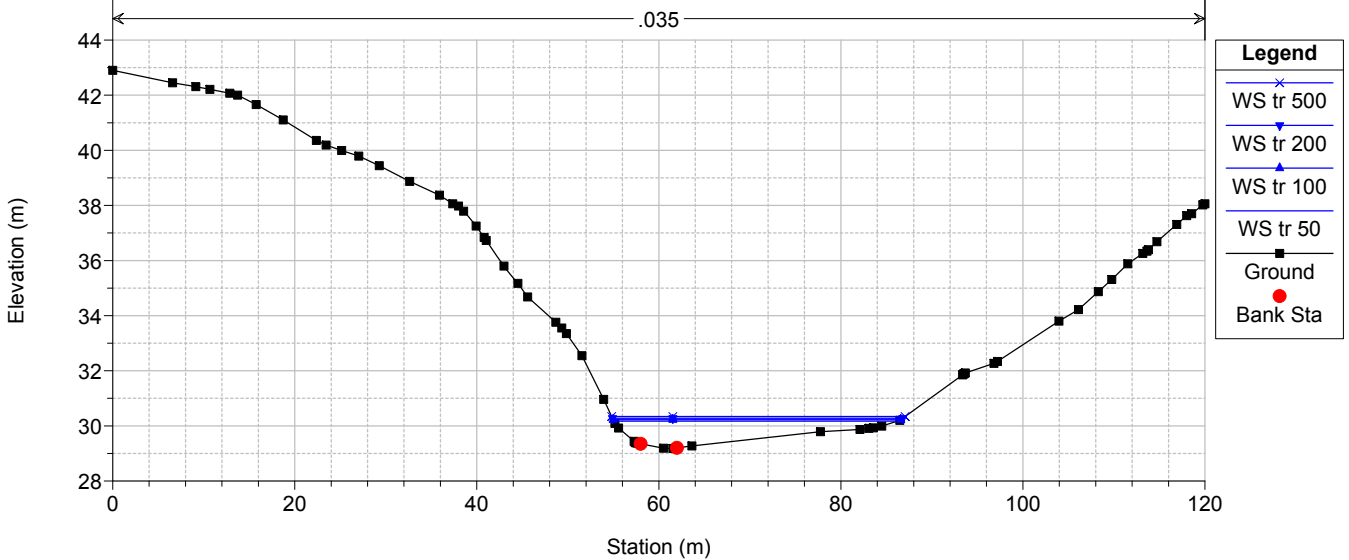
River = Rio Calabona Reach = Asta 2 RS = 1128.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

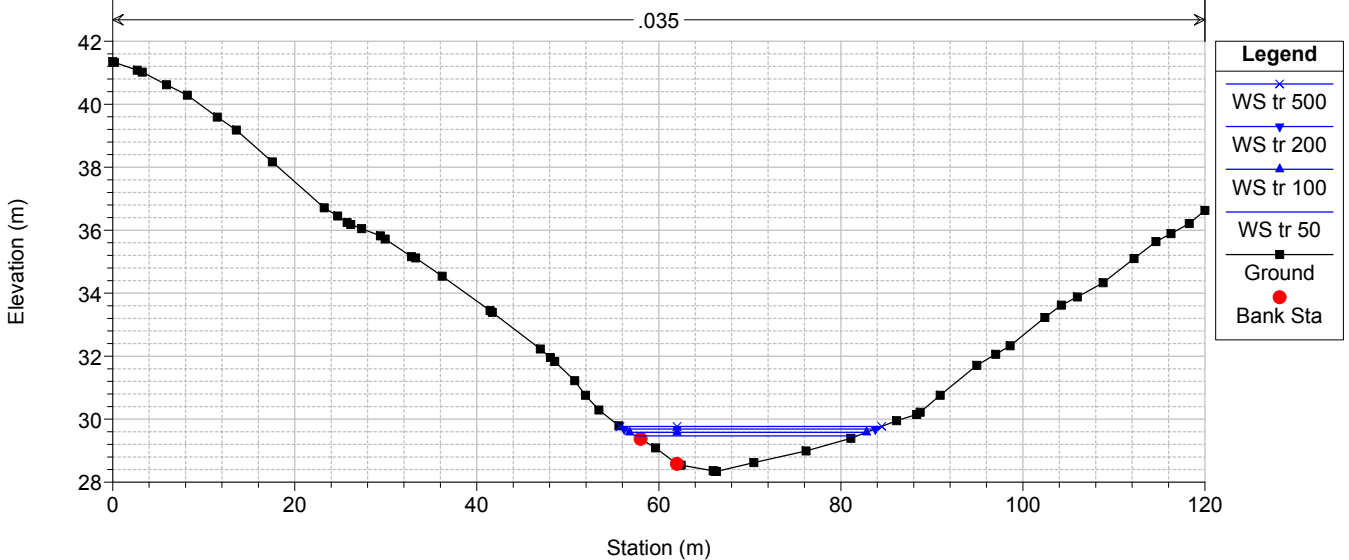
River = Rio Calabona Reach = Asta 2 RS = 1078.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

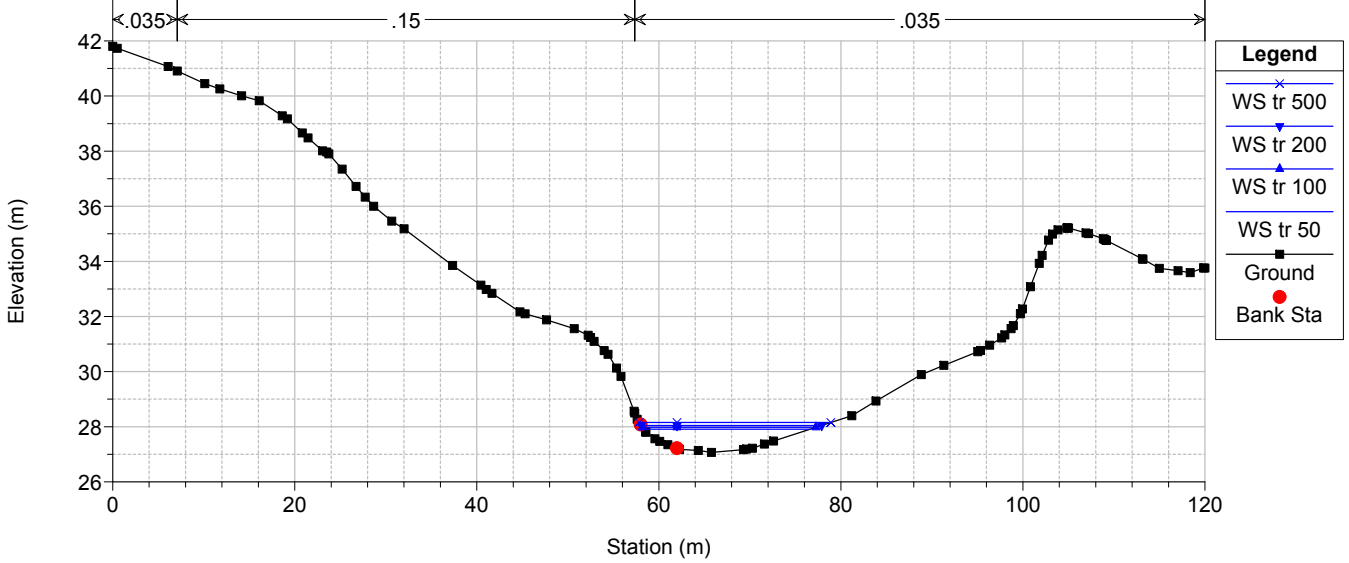
River = Rio Calabona Reach = Asta 2 RS = 1028.093 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

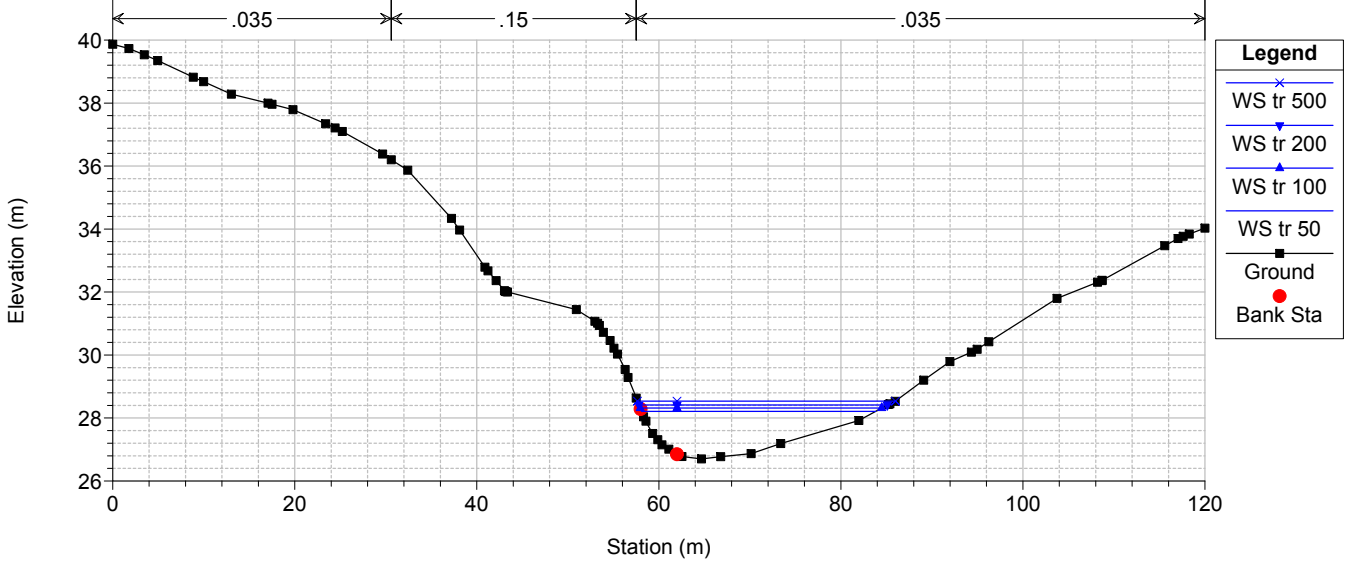
River = Rio Calabona Reach = Asta 2 RS = 978.0931 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

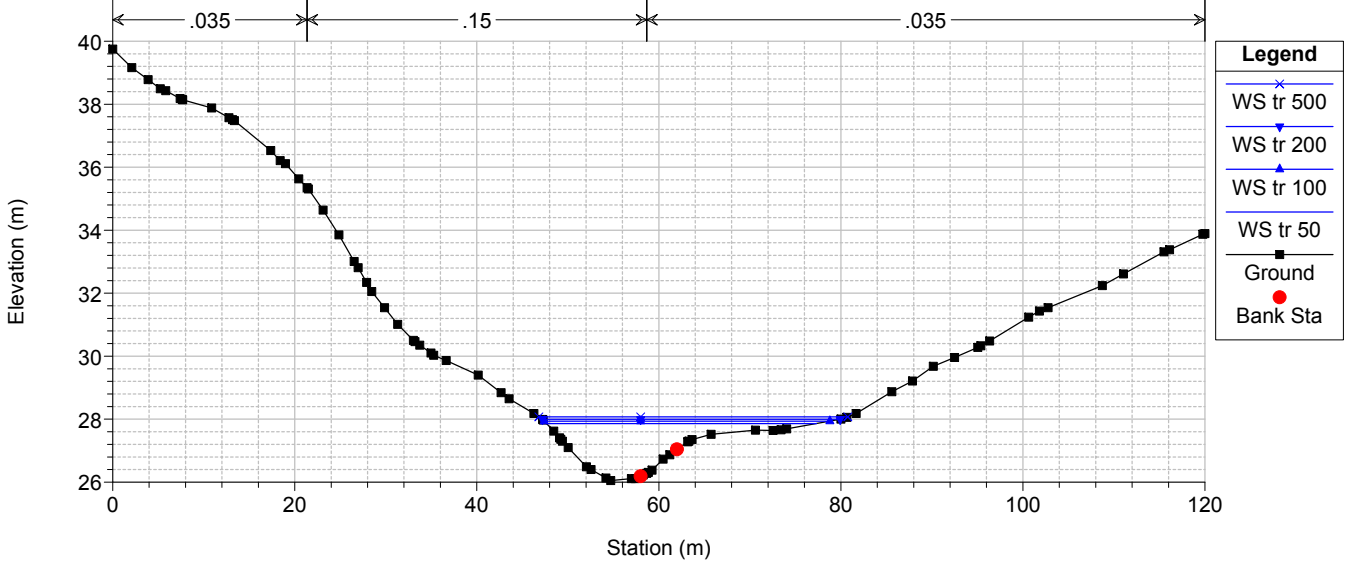
River = Rio Calabona Reach = Asta 2 RS = 928.0933 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

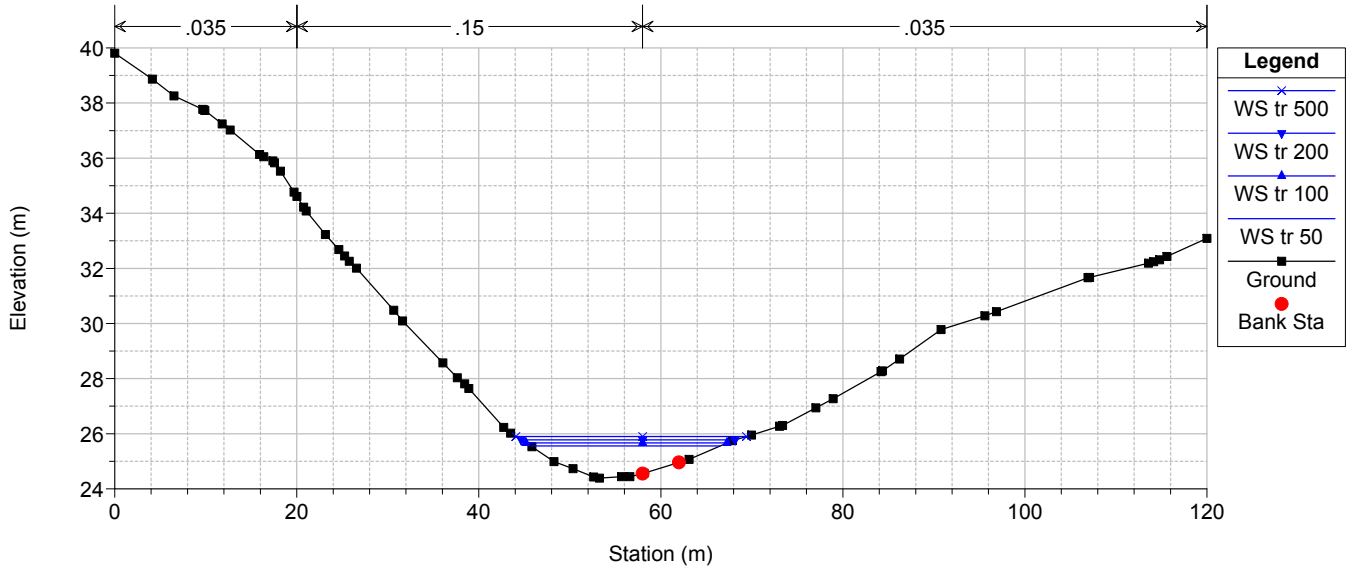
River = Rio Calabona Reach = Asta 2 RS = 878.0931 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

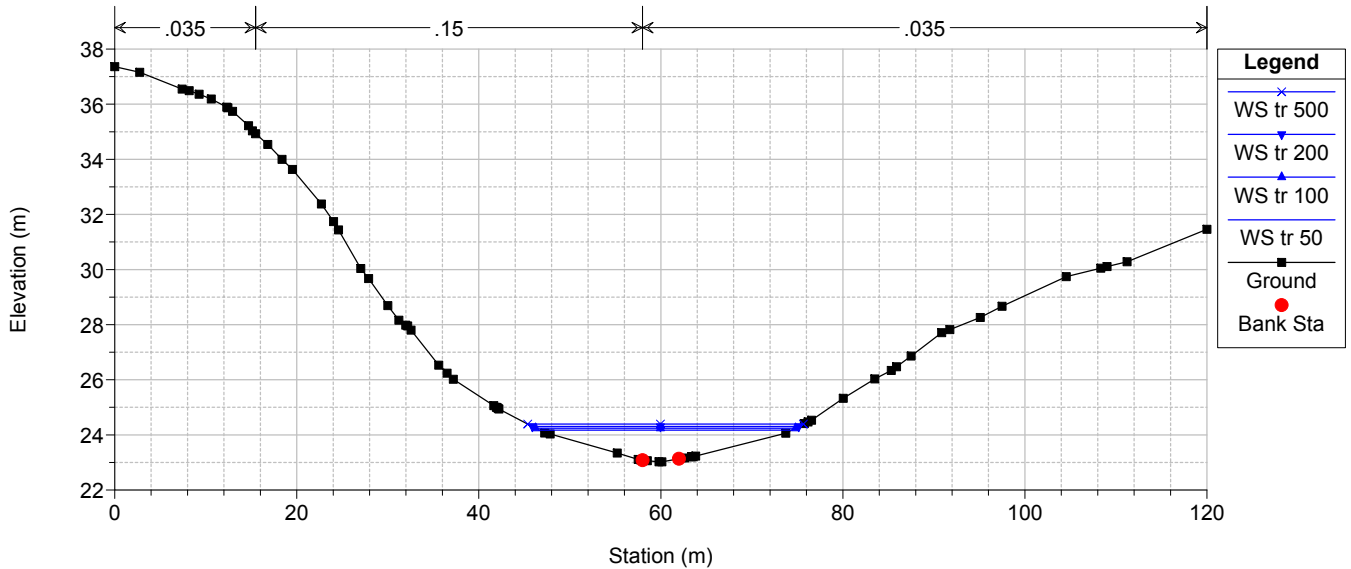
River = Rio Calabona Reach = Asta 2 RS = 828.0932 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

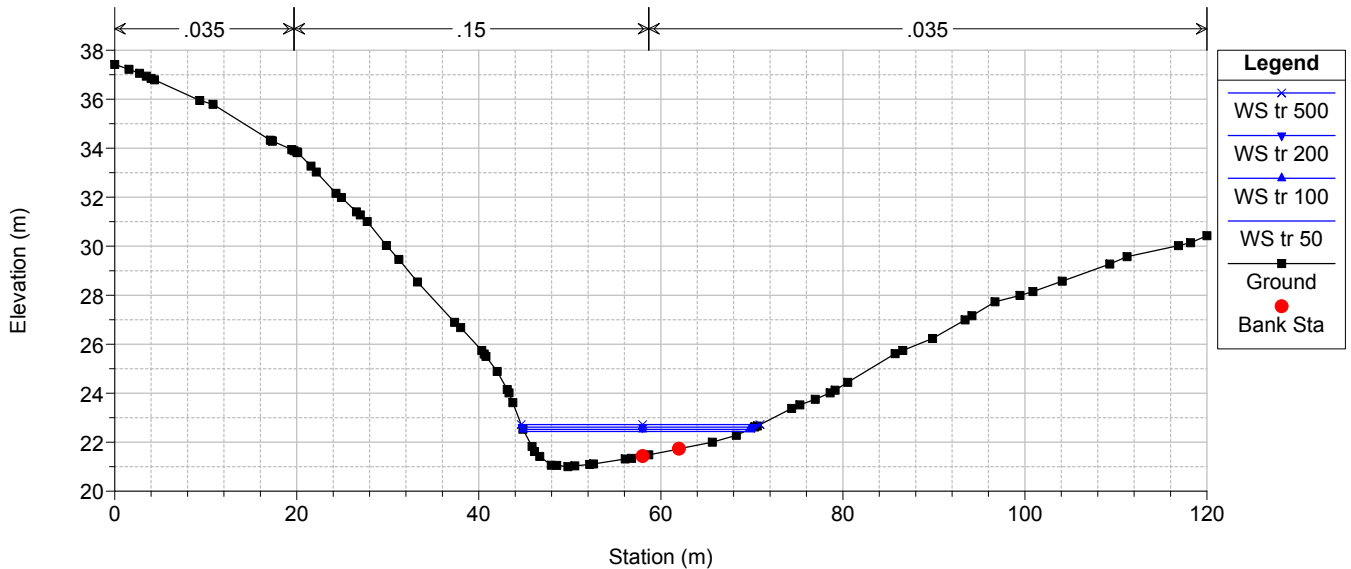
River = Rio Calabona Reach = Asta 2 RS = 778.0932 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

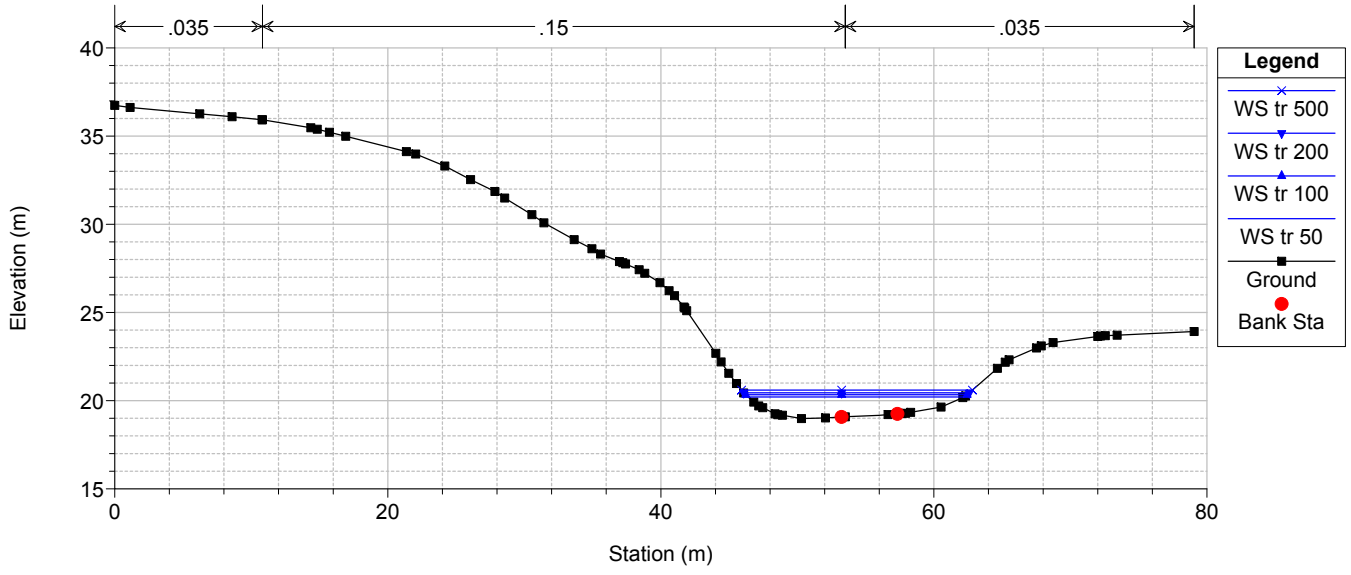
River = Rio Calabona Reach = Asta 2 RS = 728.0932 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

River = Rio Calabona Reach = Asta 2 RS = 664.3973 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 2	2718.168	tr 50	40.10	59.69	61.26	60.32	61.27	0.000211	0.54	84.88	71.66	0.14
Asta 2	2718.168	tr 100	47.82	59.69	61.33	60.37	61.34	0.000254	0.61	89.51	72.01	0.16
Asta 2	2718.168	tr 200	55.66	59.69	61.39	60.41	61.41	0.000294	0.67	93.99	72.29	0.17
Asta 2	2718.168	tr 500	66.15	59.69	61.47	60.47	61.49	0.000345	0.75	99.66	72.65	0.18
Asta 2	2714.01	tr 50	40.10	59.81	61.26		61.27	0.000131	0.62	78.21	76.24	0.18
Asta 2	2714.01	tr 100	47.82	59.81	61.32		61.34	0.000155	0.69	83.04	76.71	0.20
Asta 2	2714.01	tr 200	55.66	59.81	61.38		61.41	0.000176	0.76	87.71	77.15	0.22
Asta 2	2714.01	tr 500	66.15	59.81	61.46		61.49	0.000203	0.85	93.64	77.72	0.23
Asta 2	2696.798	tr 50	40.10	60.00	61.07	61.07	61.25	0.005677	2.13	23.28	56.37	0.68
Asta 2	2696.798	tr 100	47.82	60.00	61.12	61.12	61.31	0.005902	2.24	25.88	57.00	0.70
Asta 2	2696.798	tr 200	55.66	60.00	61.16	61.16	61.38	0.006195	2.35	28.16	57.62	0.73
Asta 2	2696.798	tr 500	66.15	60.00	61.21	61.21	61.46	0.006339	2.46	31.30	58.51	0.74
Asta 2	2678.093	tr 50	40.10	59.71	60.56	60.25	60.60	0.000614	0.59	47.03	78.61	0.22
Asta 2	2678.093	tr 100	47.82	59.71	60.76	60.29	60.80	0.000330	0.50	63.69	82.22	0.16
Asta 2	2678.093	tr 200	55.66	59.71	60.94	60.33	60.97	0.000225	0.47	78.28	83.39	0.14
Asta 2	2678.093	tr 500	66.15	59.71	61.15	60.38	61.18	0.000162	0.44	95.92	84.04	0.12
Asta 2	2628.093	tr 50	40.10	58.98	60.57		60.59	0.000056	0.59	77.55	69.82	0.16
Asta 2	2628.093	tr 100	47.82	58.98	60.77		60.79	0.000049	0.60	91.92	72.73	0.15
Asta 2	2628.093	tr 200	55.66	58.98	60.95		60.96	0.000046	0.62	104.72	74.82	0.15
Asta 2	2628.093	tr 500	66.15	58.98	61.15		61.17	0.000043	0.65	120.64	77.42	0.15
Asta 2	2578.093	tr 50	40.10	58.34	59.96	59.96	60.52	0.002690	3.56	14.16	15.38	0.95
Asta 2	2578.093	tr 100	47.82	58.34	60.15	60.15	60.73	0.002361	3.63	17.48	19.07	0.91
Asta 2	2578.093	tr 200	55.66	58.34	60.32	60.32	60.90	0.002152	3.70	20.93	22.27	0.88
Asta 2	2578.093	tr 500	66.15	58.34	60.51	60.51	61.11	0.002005	3.82	25.62	27.19	0.87
Asta 2	2553.412	tr 50	40.10	58.03	58.88	59.24	60.04	0.188849	4.79	8.57	14.13	1.81
Asta 2	2553.412	tr 100	47.82	58.03	58.95	59.36	60.27	0.188317	5.11	9.61	14.68	1.84
Asta 2	2553.412	tr 200	55.66	58.03	59.03	59.48	60.46	0.180240	5.34	10.76	15.25	1.83
Asta 2	2553.412	tr 500	66.15	58.03	60.18	59.62	60.41	0.009191	2.15	34.12	27.80	0.48
Asta 2	2528.093	tr 50	40.10	57.19	58.87	58.87	59.46	0.009734	3.59	12.43	10.86	0.95
Asta 2	2528.093	tr 100	47.82	57.19	59.03	59.03	59.68	0.009362	3.77	14.24	11.36	0.95
Asta 2	2528.093	tr 200	55.66	57.19	59.17	59.17	59.88	0.009337	3.98	15.85	11.80	0.96
Asta 2	2528.093	tr 500	66.15	57.19	59.39	59.39	60.13	0.008485	4.10	18.51	12.53	0.93
Asta 2	2504.213	tr 50	40.10	56.56	58.40	58.43	58.96	0.009999	3.37	12.75	12.72	0.93
Asta 2	2504.213	tr 100	47.82	56.56	58.48	58.57	59.16	0.011395	3.74	13.80	13.25	1.00
Asta 2	2504.213	tr 200	55.66	56.56	58.58	58.72	59.35	0.011997	4.02	15.12	13.89	1.04
Asta 2	2504.213	tr 500	66.15	56.56	58.69	58.89	59.60	0.013094	4.39	16.63	14.58	1.10
Asta 2	2478.093	tr 50	40.10	55.63	56.07	56.47	58.09	0.242778	6.31	6.51	25.28	3.70
Asta 2	2478.093	tr 100	47.82	55.63	56.12	56.54	58.23	0.215186	6.48	7.70	27.11	3.54
Asta 2	2478.093	tr 200	55.66	55.63	56.16	56.62	58.40	0.200124	6.70	8.82	28.98	3.46
Asta 2	2478.093	tr 500	66.15	55.63	56.21	56.71	58.60	0.184810	6.95	10.30	30.28	3.37
Asta 2	2428.093	tr 50	40.10	54.15	55.10	55.16	55.50	0.016767	3.10	19.13	34.32	1.06
Asta 2	2428.093	tr 100	47.82	54.15	55.17	55.26	55.63	0.017339	3.32	21.68	35.91	1.09
Asta 2	2428.093	tr 200	55.66	54.15	55.24	55.34	55.75	0.017988	3.53	24.05	37.31	1.12
Asta 2	2428.093	tr 500	66.15	54.15	55.31	55.44	55.90	0.018753	3.78	27.06	38.88	1.16
Asta 2	2378.093	tr 50	40.10	53.28	54.50	54.50	54.85	0.011812	2.95	20.27	32.46	0.89
Asta 2	2378.093	tr 100	47.82	53.28	54.61	54.61	54.98	0.011392	3.07	23.76	34.60	0.89
Asta 2	2378.093	tr 200	55.66	53.28	54.69	54.69	55.10	0.011417	3.21	26.83	35.98	0.90
Asta 2	2378.093	tr 500	66.15	53.28	54.80	54.80	55.24	0.011485	3.39	30.71	37.63	0.91
Asta 2	2328.093	tr 50	40.10	52.00	52.80	53.06	53.62	0.068516	4.06	10.31	21.17	1.70
Asta 2	2328.093	tr 100	47.82	52.00	52.86	53.16	53.78	0.065993	4.30	11.74	22.43	1.71
Asta 2	2328.093	tr 200	55.66	52.00	52.93	53.25	53.92	0.061809	4.47	13.31	23.73	1.69
Asta 2	2328.093	tr 500	66.15	52.00	53.01	53.35	54.08	0.057490	4.67	15.39	25.34	1.67
Asta 2	2278.355	tr 50	40.10	51.26	52.03	52.03	52.31	0.013125	2.37	18.10	35.96	0.97
Asta 2	2278.355	tr 100	47.82	51.26	52.09	52.11	52.41	0.014016	2.58	20.00	37.00	1.01
Asta 2	2278.355	tr 200	55.66	51.26	52.16	52.17	52.50	0.013115	2.67	22.76	38.06	0.99
Asta 2	2278.355	tr 500	66.15	51.26	52.22	52.25	52.62	0.014176	2.91	24.99	38.76	1.04
Asta 2	2228.502	tr 50	40.10	49.94	50.92	51.04	51.40	0.025712	3.61	14.27	26.51	1.21
Asta 2	2228.502	tr 100	47.82	49.94	51.01	51.12	51.50	0.023312	3.65	16.61	27.48	1.16
Asta 2	2228.502	tr 200	55.66	49.94	51.07	51.20	51.62	0.023737	3.83	18.28	28.14	1.19
Asta 2	2228.502	tr 500	66.15	49.94	51.17	51.29	51.75	0.021404	3.86	21.28	29.29	1.14
Asta 2	2178.093	tr 50	40.10	49.41	50.37	50.37	50.70	0.012316	2.59	16.20	25.54	0.96
Asta 2	2178.093	tr 100	47.82	49.41	50.46	50.46	50.82	0.011606	2.72	18.56	26.37	0.95
Asta 2	2178.093	tr 200	55.66	49.41	50.54	50.54	50.94	0.011388	2.86	20.65	27.08	0.96
Asta 2	2178.093	tr 500	66.15	49.41	50.64	50.64	51.08	0.010930	3.01	23.48	27.92	0.95
Asta 2	2128.093	tr 50	40.10	47.99	48.57	48.83	49.46	0.062847	4.82	9.78	23.14	2.07
Asta 2	2128.093	tr 100	47.82	47.99	48.62	48.92	49.62	0.062449	5.11	10.99	23.68	2.10
Asta 2	2128.093	tr 200	55.66	47.99	48.67	49.00	49.76	0.060143	5.31	12.29	24.24	2.09

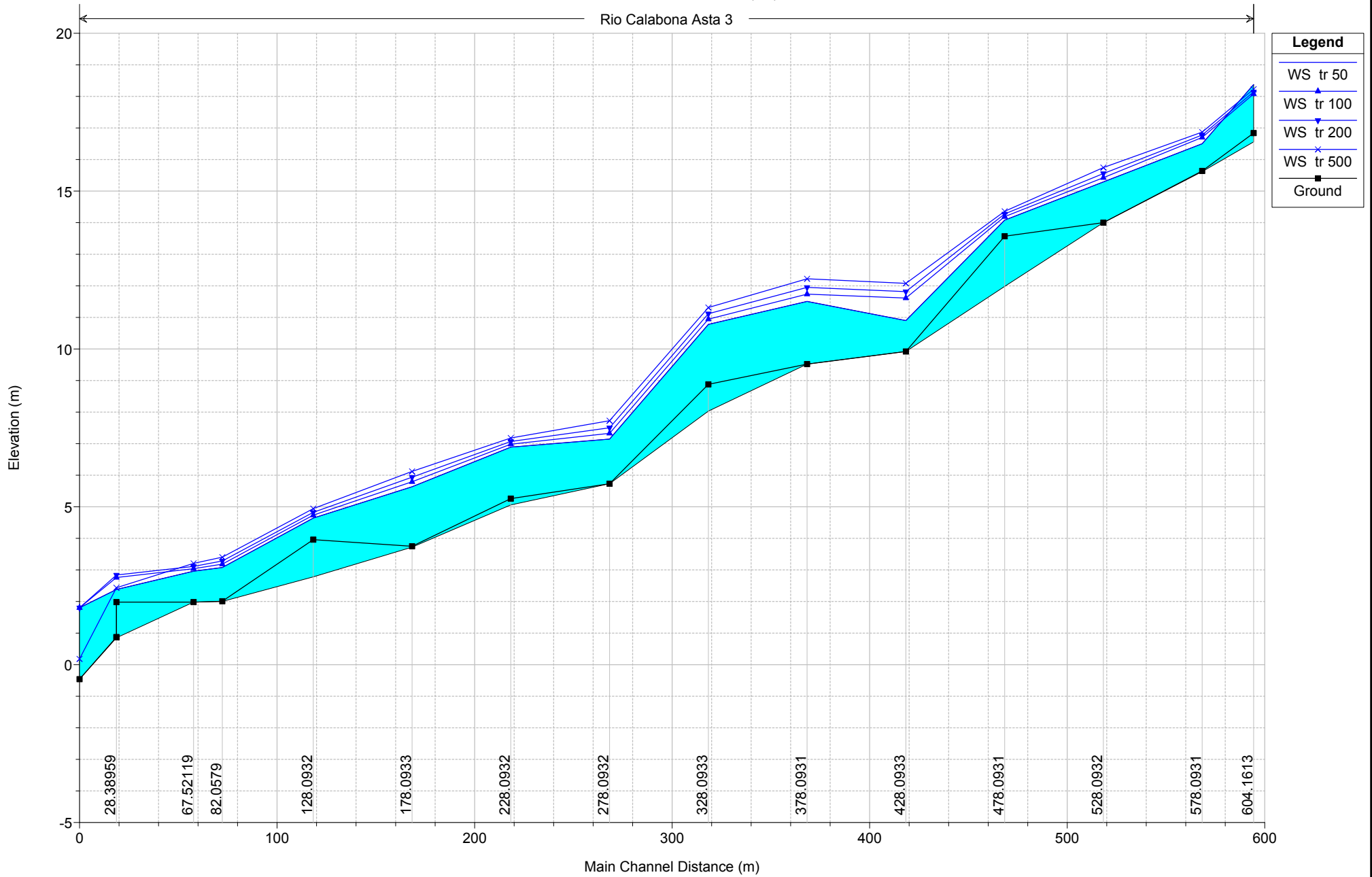
HEC-RAS Plan: 01 River: Rio Calabona Reach: Asta 2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 2	2128.093	tr 500	66.15	47.99	48.74	49.10	49.93	0.058495	5.57	13.91	24.90	2.09
Asta 2	2078.093	tr 50	40.10	47.62	48.42	48.42	48.72	0.012539	2.57	17.35	29.88	0.97
Asta 2	2078.093	tr 100	47.82	47.62	48.50	48.50	48.82	0.012261	2.71	19.63	30.58	0.97
Asta 2	2078.093	tr 200	55.66	47.62	48.57	48.57	48.92	0.011878	2.84	21.91	31.25	0.97
Asta 2	2078.093	tr 500	66.15	47.62	48.66	48.66	49.05	0.011433	2.98	24.85	31.99	0.97
Asta 2	2028.093	tr 50	40.10	46.15	47.41	46.98	47.51	0.002371	1.47	28.52	30.82	0.45
Asta 2	2028.093	tr 100	47.82	46.15	47.51	47.06	47.64	0.002428	1.58	31.83	31.89	0.46
Asta 2	2028.093	tr 200	55.66	46.15	47.61	47.14	47.75	0.002480	1.68	35.00	32.87	0.47
Asta 2	2028.093	tr 500	66.15	46.15	47.73	47.24	47.89	0.002544	1.81	39.01	34.08	0.49
Asta 2	1978.093	tr 50	40.10	45.98	47.12		47.32	0.006437	2.44	20.81	27.68	0.74
Asta 2	1978.093	tr 100	47.82	45.98	47.21		47.44	0.006639	2.61	23.33	28.93	0.76
Asta 2	1978.093	tr 200	55.66	45.98	47.30		47.55	0.006721	2.75	25.89	30.15	0.78
Asta 2	1978.093	tr 500	66.15	45.98	47.41		47.68	0.006704	2.90	29.33	31.72	0.79
Asta 2	1928.093	tr 50	40.10	45.67	46.78		46.92	0.009844	1.10	26.89	35.98	0.35
Asta 2	1928.093	tr 100	47.82	45.67	46.90		47.05	0.008381	1.11	31.53	37.65	0.33
Asta 2	1928.093	tr 200	55.66	45.67	47.02		47.17	0.007322	1.11	36.18	39.24	0.32
Asta 2	1928.093	tr 500	66.15	45.67	47.17		47.33	0.006384	1.12	42.15	41.20	0.30
Asta 2	1878.093	tr 50	40.10	43.90	46.33		46.40	0.010029	1.11	37.63	25.89	0.24
Asta 2	1878.093	tr 100	47.82	43.90	46.47		46.56	0.010595	1.19	41.51	27.00	0.25
Asta 2	1878.093	tr 200	55.66	43.90	46.61		46.71	0.010991	1.26	45.29	28.04	0.26
Asta 2	1878.093	tr 500	66.15	43.90	46.77		46.90	0.011420	1.35	50.03	29.30	0.26
Asta 2	1828.093	tr 50	40.10	43.20	44.80	44.80	45.16	0.122519	2.62	15.62	24.08	0.76
Asta 2	1828.093	tr 100	47.82	43.20	44.89	44.89	45.29	0.112430	2.63	17.85	25.89	0.74
Asta 2	1828.093	tr 200	55.66	43.20	44.97	44.97	45.42	0.106969	2.66	19.79	27.07	0.72
Asta 2	1828.093	tr 500	66.15	43.20	45.06	45.06	45.58	0.099431	2.68	22.34	28.44	0.71
Asta 2	1778.093	tr 50	40.10	41.60	42.68	42.79	43.16	0.019389	3.11	14.22	26.65	1.18
Asta 2	1778.093	tr 100	47.82	41.60	42.75	42.89	43.30	0.019967	3.35	16.05	27.88	1.22
Asta 2	1778.093	tr 200	55.66	41.60	42.81	42.97	43.43	0.020343	3.56	17.87	29.03	1.24
Asta 2	1778.093	tr 500	66.15	41.60	42.89	43.08	43.60	0.020963	3.82	20.13	30.41	1.28
Asta 2	1728.093	tr 50	40.10	39.71	41.43	41.01	41.57	0.006211	1.60	24.24	24.49	0.42
Asta 2	1728.093	tr 100	47.82	39.71	41.52	41.11	41.70	0.006600	1.73	26.72	25.48	0.44
Asta 2	1728.093	tr 200	55.66	39.71	41.62	41.22	41.81	0.006901	1.85	29.15	26.41	0.46
Asta 2	1728.093	tr 500	66.15	39.71	41.73	41.34	41.96	0.007345	2.00	32.07	27.50	0.48
Asta 2	1678.093	tr 50	40.10	39.99	40.97	40.86	41.18	0.009604	2.16	21.16	33.06	0.75
Asta 2	1678.093	tr 100	47.82	39.99	41.04	40.94	41.29	0.009856	2.32	23.72	34.39	0.77
Asta 2	1678.093	tr 200	55.66	39.99	41.11	41.02	41.39	0.010323	2.48	25.97	35.51	0.80
Asta 2	1678.093	tr 500	66.15	39.99	41.19	41.11	41.51	0.010476	2.65	29.19	37.05	0.81
Asta 2	1628.093	tr 50	40.10	39.43	40.34	40.34	40.63	0.012537	2.44	18.02	33.26	0.95
Asta 2	1628.093	tr 100	47.82	39.43	40.41	40.41	40.73	0.012145	2.58	20.57	34.28	0.96
Asta 2	1628.093	tr 200	55.66	39.43	40.49	40.49	40.84	0.011525	2.69	23.25	35.33	0.95
Asta 2	1628.093	tr 500	66.15	39.43	40.58	40.58	40.96	0.011304	2.85	26.38	36.52	0.95
Asta 2	1578.093	tr 50	40.10	37.98	39.21	38.98	39.38	0.006596	1.90	24.09	32.01	0.59
Asta 2	1578.093	tr 100	47.82	37.98	38.83	39.07	39.58	0.053249	3.95	13.18	25.43	1.53
Asta 2	1578.093	tr 200	55.66	37.98	38.89	39.15	39.72	0.052808	4.16	14.67	26.47	1.55
Asta 2	1578.093	tr 500	66.15	37.98	38.97	39.25	39.87	0.050442	4.37	16.79	27.82	1.54
Asta 2	1534.492	tr 50	40.10	37.84	38.63	38.59	38.85	0.028998	2.11	19.77	38.23	0.84
Asta 2	1534.492	tr 100	47.82	37.84	38.68	38.66	38.94	0.030666	2.29	21.78	39.43	0.87
Asta 2	1534.492	tr 200	55.66	37.84	38.72	38.72	39.03	0.032853	2.47	23.52	40.45	0.92
Asta 2	1534.492	tr 500	66.15	37.84	38.80	38.80	39.14	0.031099	2.58	26.81	42.12	0.91
Asta 2	1478.093	tr 50	40.10	36.73	37.53	37.53	37.80	0.012892	2.36	18.04	35.43	0.96
Asta 2	1478.093	tr 100	47.82	36.73	37.60	37.60	37.89	0.012312	2.48	20.66	37.02	0.95
Asta 2	1478.093	tr 200	55.66	36.73	37.67	37.67	37.99	0.011785	2.58	23.27	38.55	0.95
Asta 2	1478.093	tr 500	66.15	36.73	37.74	37.75	38.10	0.011999	2.77	26.06	40.11	0.97
Asta 2	1428.093	tr 50	40.10	35.88	36.47	36.57	36.89	0.026288	2.89	14.15	31.13	1.31
Asta 2	1428.093	tr 100	47.82	35.88	36.52	36.65	37.00	0.026521	3.10	15.79	31.74	1.34
Asta 2	1428.093	tr 200	55.66	35.88	36.57	36.71	37.11	0.026593	3.29	17.38	32.32	1.36
Asta 2	1428.093	tr 500	66.15	35.88	36.64	36.80	37.24	0.025008	3.46	19.81	33.22	1.35
Asta 2	1378.093	tr 50	40.10	34.13	35.17	35.33	35.73	0.020030	3.56	13.01	22.67	1.25
Asta 2	1378.093	tr 100	47.82	34.13	35.26	35.44	35.86	0.019356	3.74	15.04	24.49	1.25
Asta 2	1378.093	tr 200	55.66	34.13	35.69	35.53	35.94	0.005282	2.53	27.60	33.45	0.70
Asta 2	1378.093	tr 500	66.15	34.13	36.09	35.63	36.24	0.002448	2.05	42.74	43.11	0.49
Asta 2	1333.456	tr 50	40.10	33.98	35.02	34.80	35.18	0.004840	2.01	23.68	32.28	0.64
Asta 2	1333.456	tr 100	47.82	33.98	35.37	34.89	35.47	0.002029	1.59	35.99	36.37	0.43
Asta 2	1333.456	tr 200	55.66	33.98	35.73		35.80	0.001099	1.36	49.51	40.43	0.33
Asta 2	1333.456	tr 500	66.15	33.98	36.10		36.16	0.000696	1.24	65.50	44.57	0.27
Asta 2	1273.433	tr 50	40.10	33.50	35.02		35.06	0.000637	0.93	50.98	46.97	0.25

HEC-RAS Plan: 01 River: Rio Calabona Reach: Asta 2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 2	1273.433	tr 100	47.82	33.50	35.38		35.41	0.000383	0.84	68.59	51.59	0.20
Asta 2	1273.433	tr 200	55.66	33.50	35.73		35.76	0.000258	0.77	87.56	56.12	0.17
Asta 2	1273.433	tr 500	66.15	33.50	36.11		36.13	0.000195	0.75	109.72	62.02	0.15
Asta 2	1228.216	tr 50	40.10	33.94	34.99		35.02	0.000864	0.81	51.96	61.87	0.27
Asta 2	1228.216	tr 100	47.82	33.94	35.37		35.39	0.000378	0.67	76.17	66.93	0.19
Asta 2	1228.216	tr 200	55.66	33.94	35.73		35.74	0.000217	0.60	101.05	71.80	0.15
Asta 2	1228.216	tr 500	66.15	33.94	36.10		36.12	0.000148	0.56	129.48	78.41	0.13
Asta 2	1185.404	tr 50	40.10	32.01	34.99	33.48	35.00	0.000168	0.55	83.57	63.99	0.10
Asta 2	1185.404	tr 100	47.82	32.01	35.37	33.56	35.38	0.000119	0.50	108.86	68.56	0.09
Asta 2	1185.404	tr 200	55.66	32.01	35.73	33.64	35.74	0.000089	0.47	133.87	70.92	0.08
Asta 2	1185.404	tr 500	66.15	32.01	36.10	33.74	36.11	0.000085	0.49	161.88	81.04	0.08
Asta 2	1175.988		Culvert									
Asta 2	1163.703	tr 50	40.10	31.57	32.75	32.75	33.11	0.011167	2.80	15.62	22.17	0.94
Asta 2	1163.703	tr 100	47.82	31.57	32.85	32.85	33.25	0.010605	2.93	17.94	23.06	0.94
Asta 2	1163.703	tr 200	55.66	31.57	32.94	32.94	33.37	0.010334	3.07	20.10	23.91	0.94
Asta 2	1163.703	tr 500	66.15	31.57	33.05	33.05	33.53	0.010101	3.24	22.84	24.95	0.94
Asta 2	1128.093	tr 50	40.10	30.19	30.73	31.09	32.10	0.109223	5.24	7.85	21.04	2.60
Asta 2	1128.093	tr 100	47.82	30.19	30.78	31.17	32.27	0.101314	5.48	9.01	21.73	2.56
Asta 2	1128.093	tr 200	55.66	30.19	30.83	31.27	32.43	0.094016	5.67	10.19	22.30	2.51
Asta 2	1128.093	tr 500	66.15	30.19	30.90	31.37	32.61	0.086000	5.89	11.74	22.99	2.45
Asta 2	1078.093	tr 50	40.10	29.18	30.17	30.18	30.46	0.011586	2.94	18.03	31.15	0.97
Asta 2	1078.093	tr 100	47.82	29.18	30.23	30.25	30.56	0.012486	3.17	19.78	31.62	1.02
Asta 2	1078.093	tr 200	55.66	29.18	30.28	30.32	30.66	0.013313	3.38	21.38	31.90	1.06
Asta 2	1078.093	tr 500	66.15	29.18	30.34	30.40	30.79	0.014369	3.65	23.34	32.24	1.11
Asta 2	1028.093	tr 50	40.10	28.34	29.47	29.50	29.85	0.012228	2.86	15.54	24.34	0.98
Asta 2	1028.093	tr 100	47.82	28.34	29.58	29.60	29.97	0.010788	2.92	18.44	26.03	0.94
Asta 2	1028.093	tr 200	55.66	28.34	29.69	29.69	30.09	0.009785	2.98	21.31	27.60	0.91
Asta 2	1028.093	tr 500	66.15	28.34	29.77	29.80	30.23	0.010533	3.24	23.51	28.75	0.96
Asta 2	978.0931	tr 50	40.10	27.07	27.91	28.20	28.82	0.036544	4.51	10.10	18.30	1.66
Asta 2	978.0931	tr 100	47.82	27.07	27.98	28.30	29.00	0.037132	4.82	11.36	19.07	1.70
Asta 2	978.0931	tr 200	55.66	27.07	28.05	28.41	29.16	0.037017	5.07	12.66	19.82	1.72
Asta 2	978.0931	tr 500	66.15	27.07	28.15	28.53	29.30	0.033191	5.18	14.87	21.05	1.66
Asta 2	928.0933	tr 50	40.10	26.70	28.21	27.84	28.37	0.002854	1.85	24.82	25.74	0.51
Asta 2	928.0933	tr 100	47.82	26.70	28.32	27.95	28.49	0.003011	2.00	27.57	26.55	0.53
Asta 2	928.0933	tr 200	55.66	26.70	28.41	28.05	28.61	0.003158	2.14	30.17	27.29	0.55
Asta 2	928.0933	tr 500	66.15	26.70	28.54	28.16	28.76	0.003301	2.30	33.57	28.35	0.57
Asta 2	878.0931	tr 50	40.10	26.05	27.86	27.51	28.03	0.029943	1.76	22.48	29.67	0.47
Asta 2	878.0931	tr 100	47.82	26.05	27.94	27.72	28.14	0.031237	1.86	24.79	31.37	0.48
Asta 2	878.0931	tr 200	55.66	26.05	28.00	27.79	28.24	0.033510	1.98	26.67	32.70	0.50
Asta 2	878.0931	tr 500	66.15	26.05	28.07	27.88	28.38	0.034555	2.07	29.29	33.96	0.51
Asta 2	828.0932	tr 50	40.10	24.39	25.56	25.56	25.95	0.059938	2.72	15.04	20.81	0.90
Asta 2	828.0932	tr 100	47.82	24.39	25.66	25.66	26.09	0.054336	2.81	17.34	22.08	0.88
Asta 2	828.0932	tr 200	55.66	24.39	25.78	25.78	26.22	0.048118	2.86	19.89	23.49	0.85
Asta 2	828.0932	tr 500	66.15	24.39	25.90	25.90	26.38	0.045028	2.98	22.84	25.33	0.84
Asta 2	778.0932	tr 50	40.10	23.02	24.17	24.19	24.54	0.016159	2.92	17.99	27.76	0.91
Asta 2	778.0932	tr 100	47.82	23.02	24.24	24.28	24.67	0.017430	3.15	19.95	28.57	0.95
Asta 2	778.0932	tr 200	55.66	23.02	24.31	24.37	24.79	0.018777	3.39	21.72	29.28	1.00
Asta 2	778.0932	tr 500	66.15	23.02	24.39	24.48	24.95	0.019620	3.62	24.28	30.28	1.03
Asta 2	728.0932	tr 50	40.10	21.00	22.44	22.15	22.63	0.028931	1.78	21.67	24.25	0.53
Asta 2	728.0932	tr 100	47.82	21.00	22.53	22.25	22.76	0.029385	1.91	23.84	24.90	0.55
Asta 2	728.0932	tr 200	55.66	21.00	22.61	22.33	22.89	0.029284	2.01	26.03	25.50	0.56
Asta 2	728.0932	tr 500	66.15	21.00	22.72	22.45	23.04	0.029316	2.14	28.75	26.24	0.57
Asta 2	664.3973	tr 50	40.10	18.98	20.21	20.21	20.69	0.031072	2.87	14.04	15.82	0.87
Asta 2	664.3973	tr 100	47.82	18.98	20.33	20.33	20.86	0.029069	2.99	16.01	16.21	0.86
Asta 2	664.3973	tr 200	55.66	18.98	20.45	20.45	21.03	0.027757	3.11	17.87	16.54	0.86
Asta 2	664.3973	tr 500	66.15	18.98	20.60	20.60	21.24	0.026087	3.25	20.32	16.90	0.85

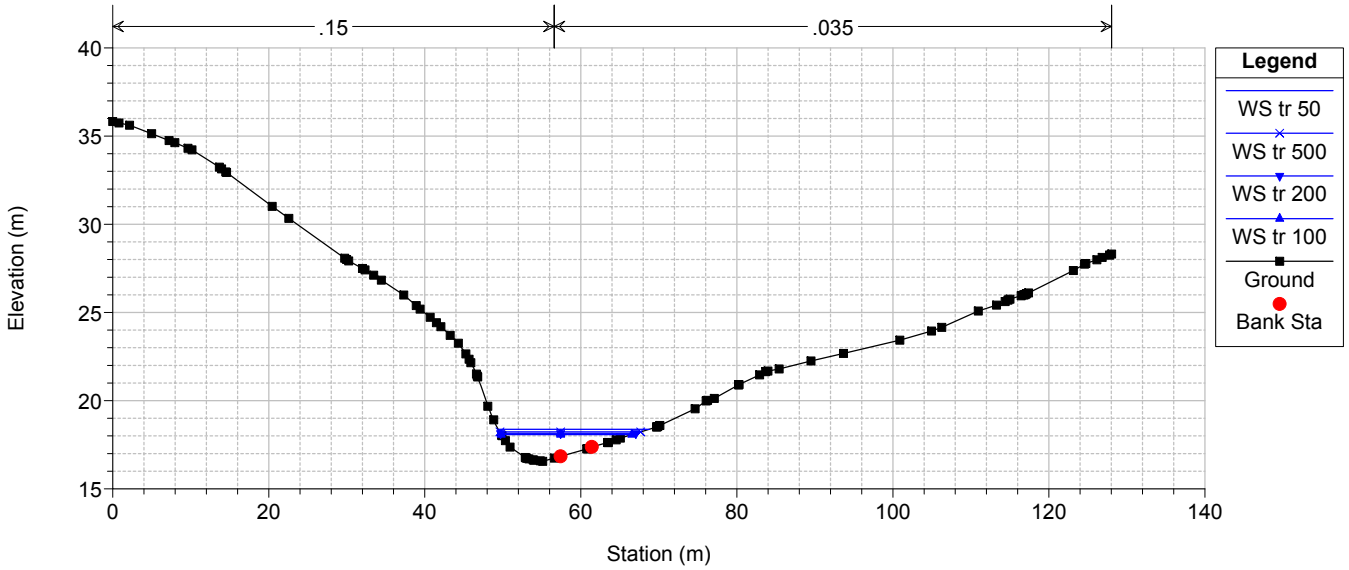
Rio Calabona Asta 3



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

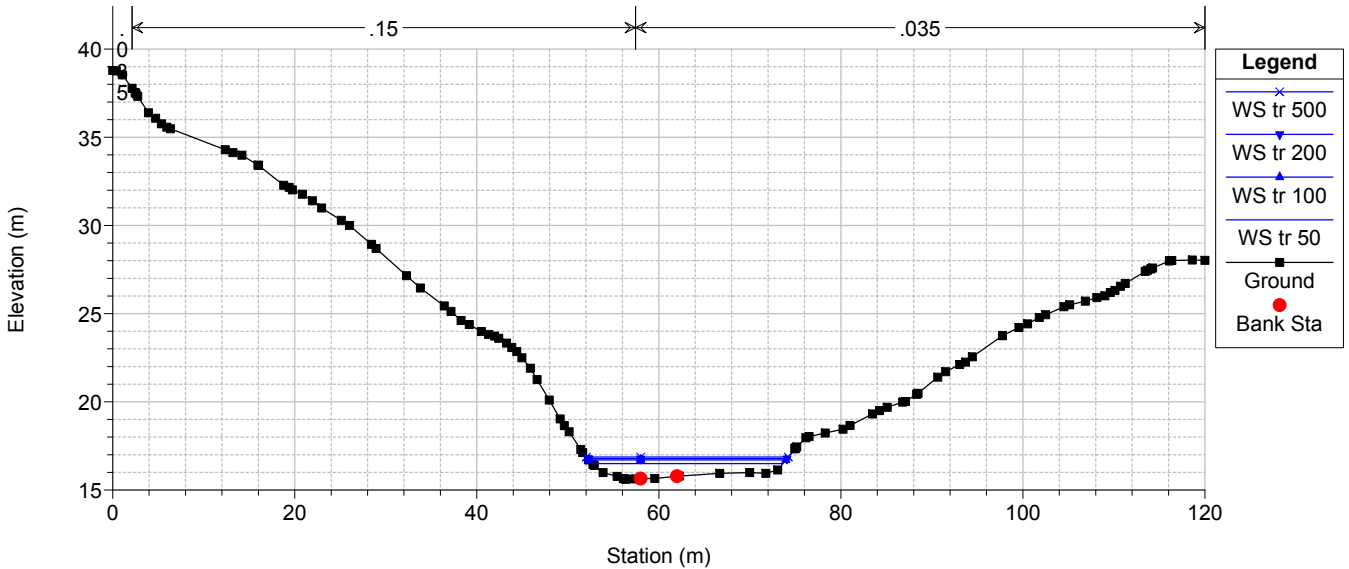
River = Rio Calabona Reach = Asta 3 RS = 604.1613 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

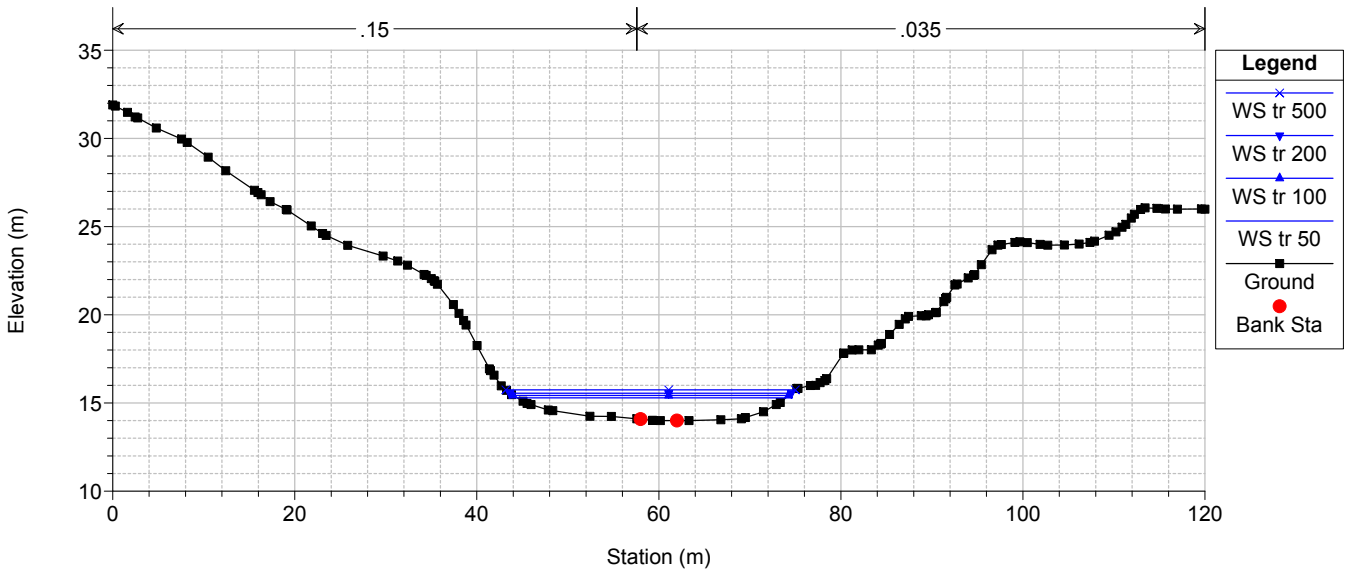
River = Rio Calabona Reach = Asta 3 RS = 578.0931 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

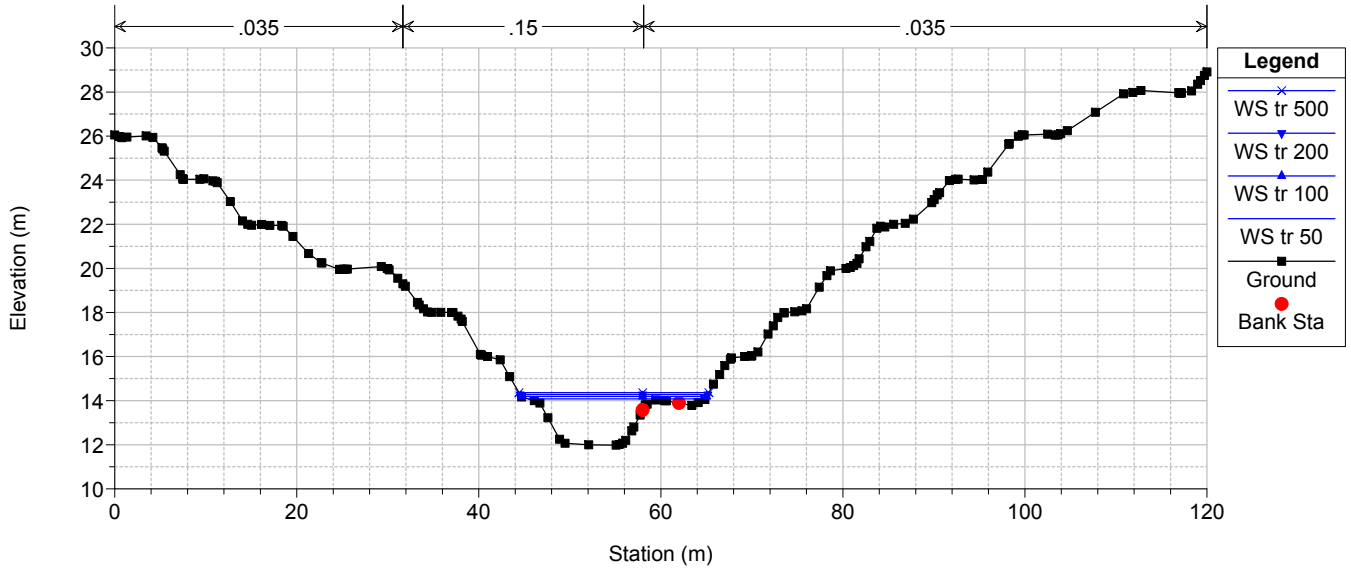
River = Rio Calabona Reach = Asta 3 RS = 528.0932 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

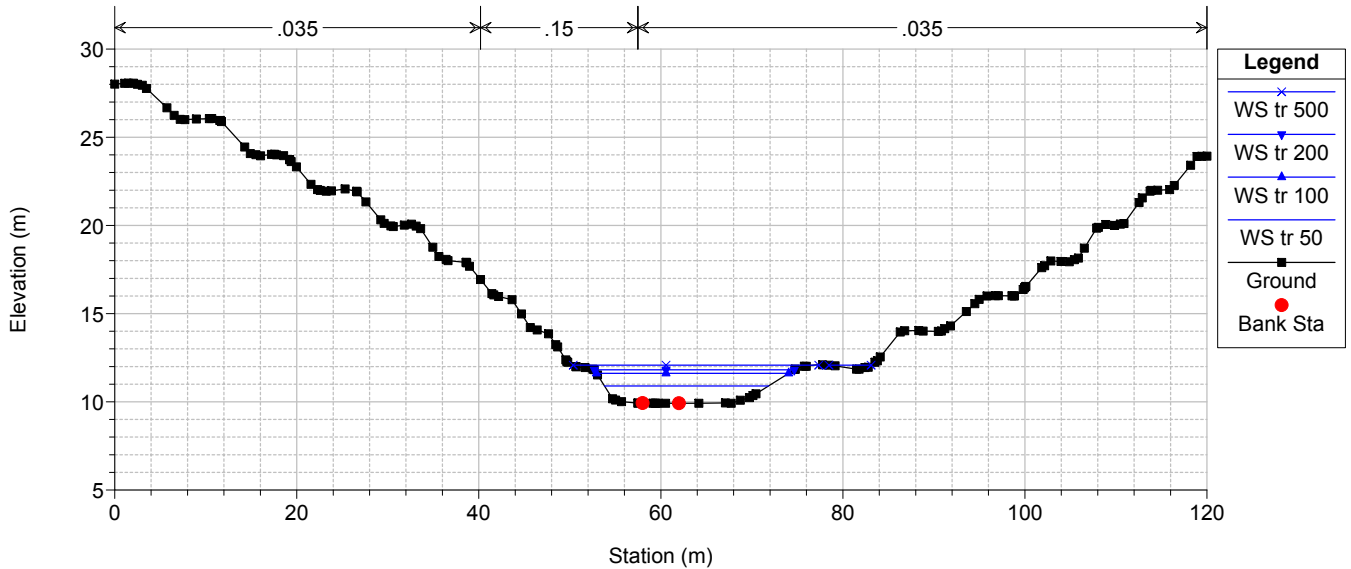
River = Rio Calabona Reach = Asta 3 RS = 478.0931 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

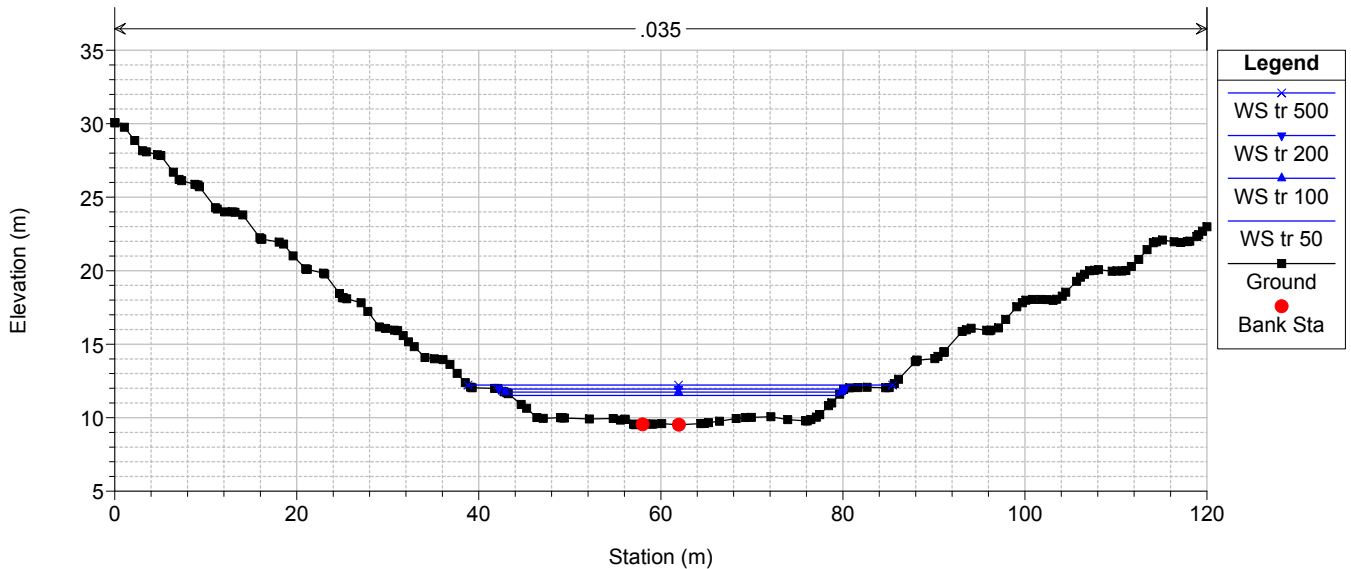
River = Rio Calabona Reach = Asta 3 RS = 428.0933 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

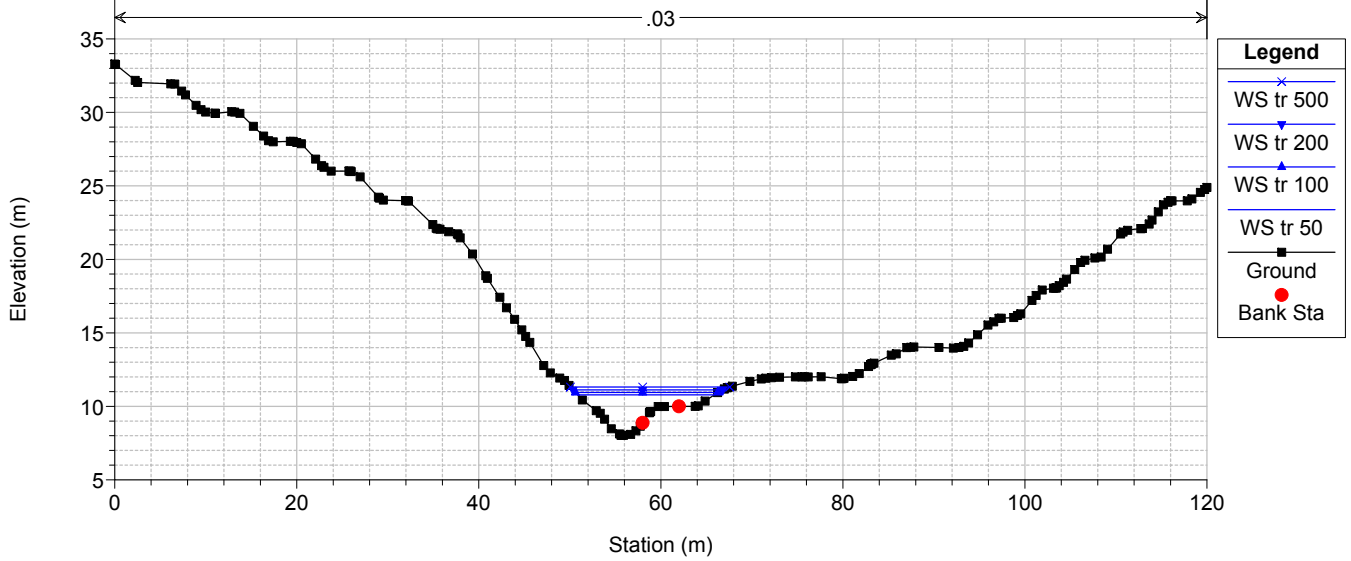
River = Rio Calabona Reach = Asta 3 RS = 378.0931 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

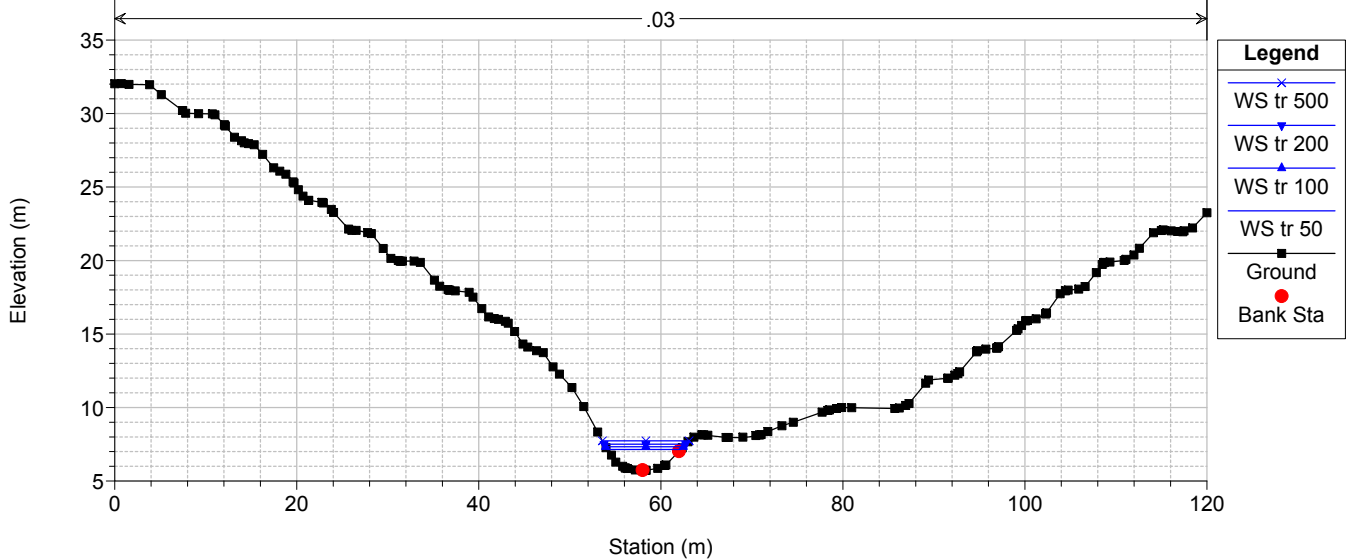
River = Rio Calabona Reach = Asta 3 RS = 328.0933 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

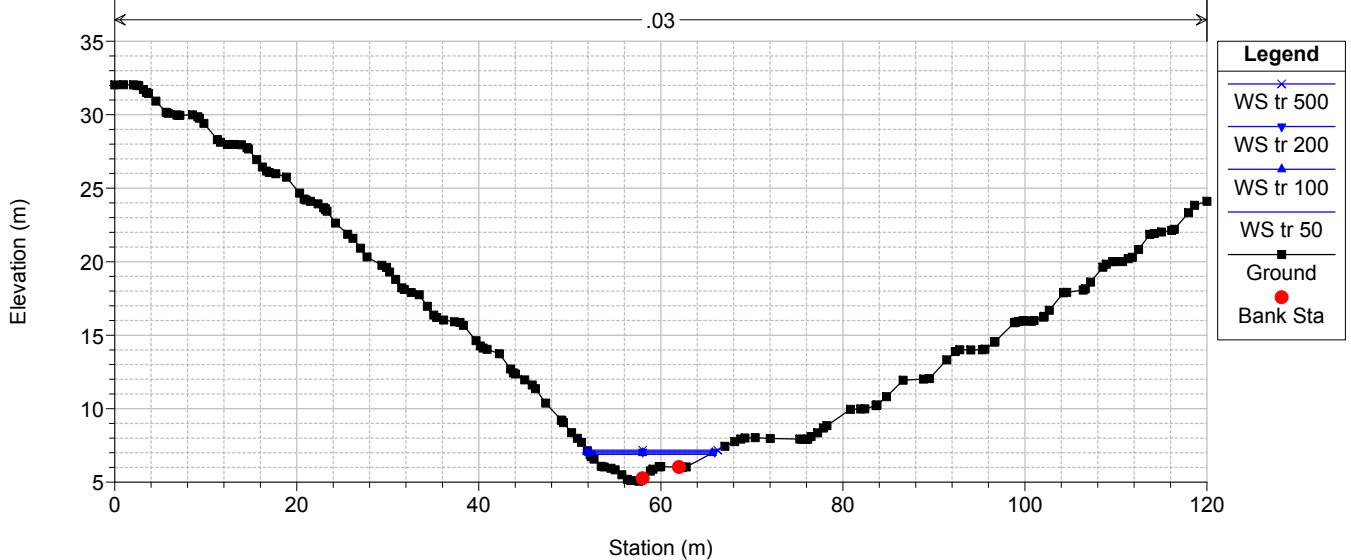
River = Rio Calabona Reach = Asta 3 RS = 278.0932 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

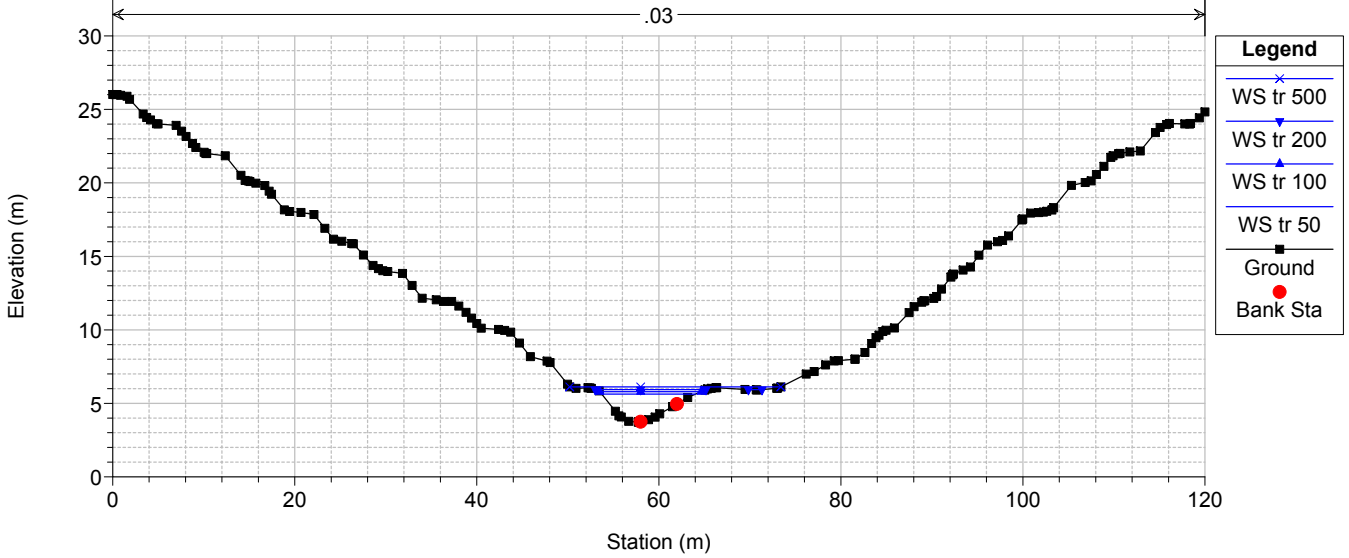
River = Rio Calabona Reach = Asta 3 RS = 228.0932 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

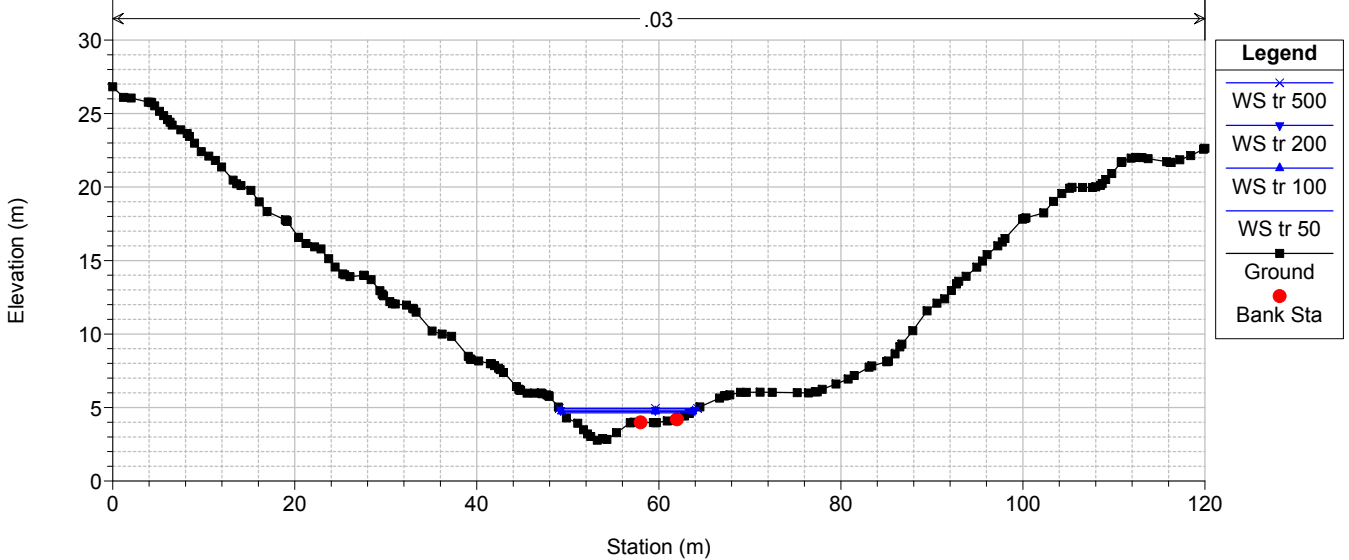
River = Rio Calabona Reach = Asta 3 RS = 178.0933 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

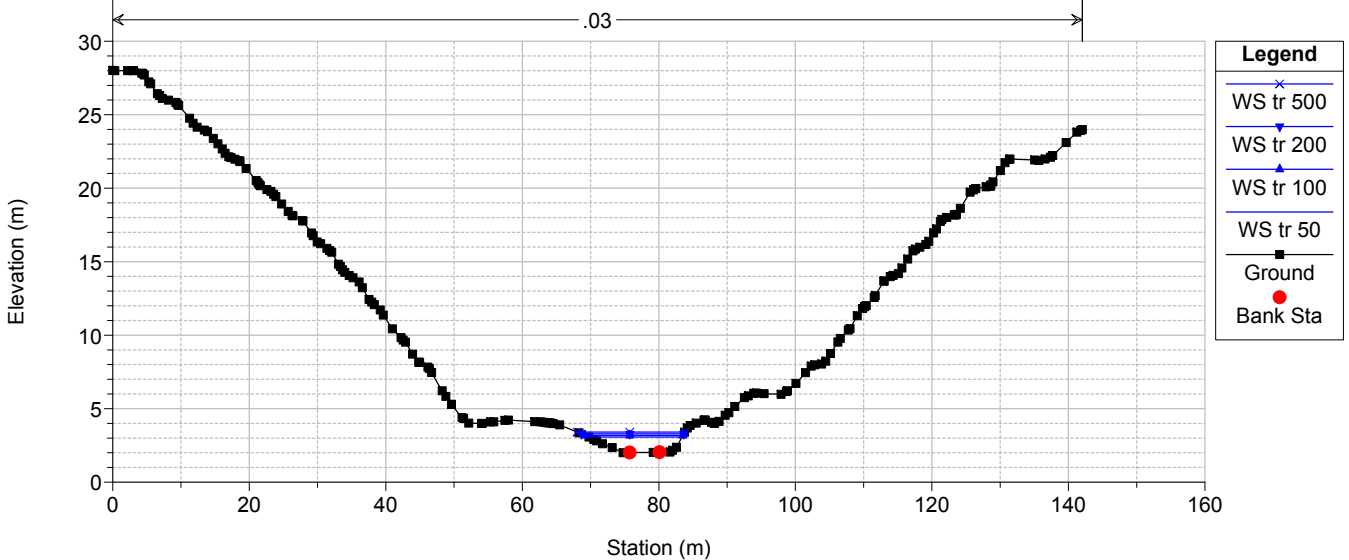
River = Rio Calabona Reach = Asta 3 RS = 128.0932 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

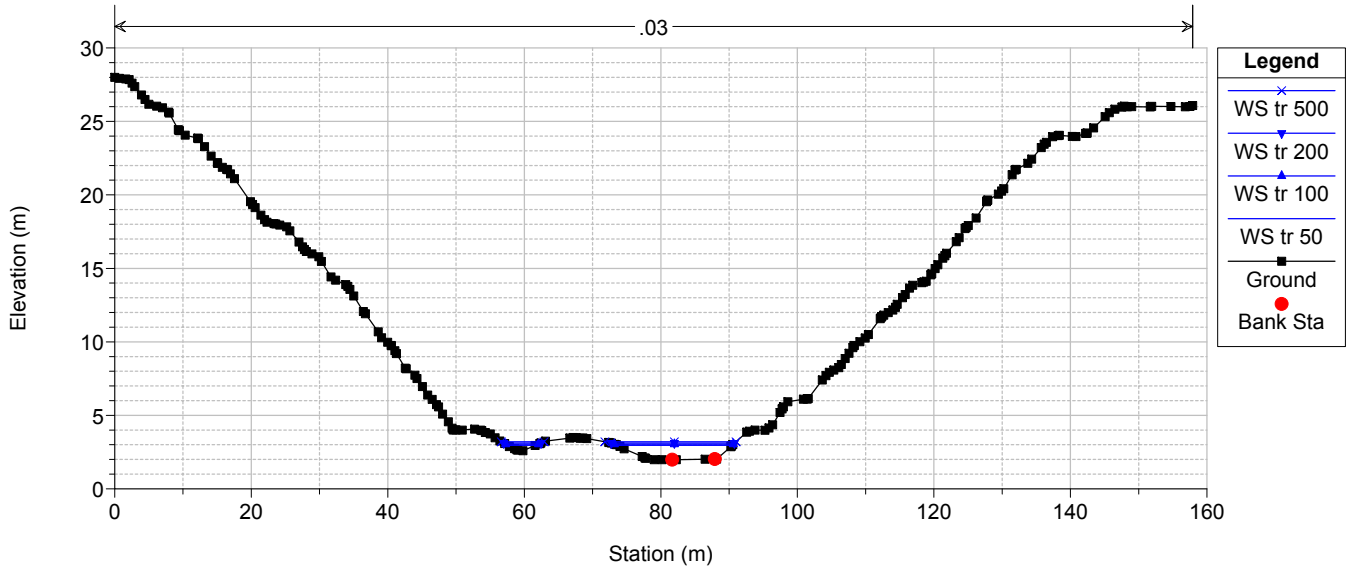
River = Rio Calabona Reach = Asta 3 RS = 82.0579 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

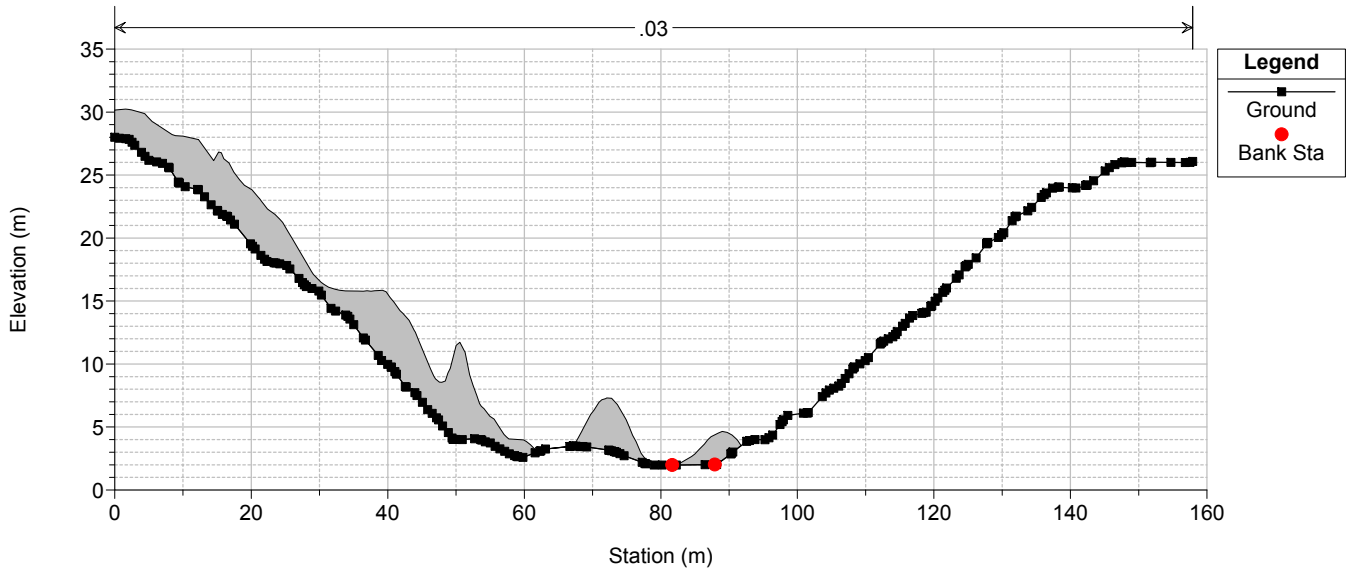
River = Rio Calabona Reach = Asta 3 RS = 67.52119 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

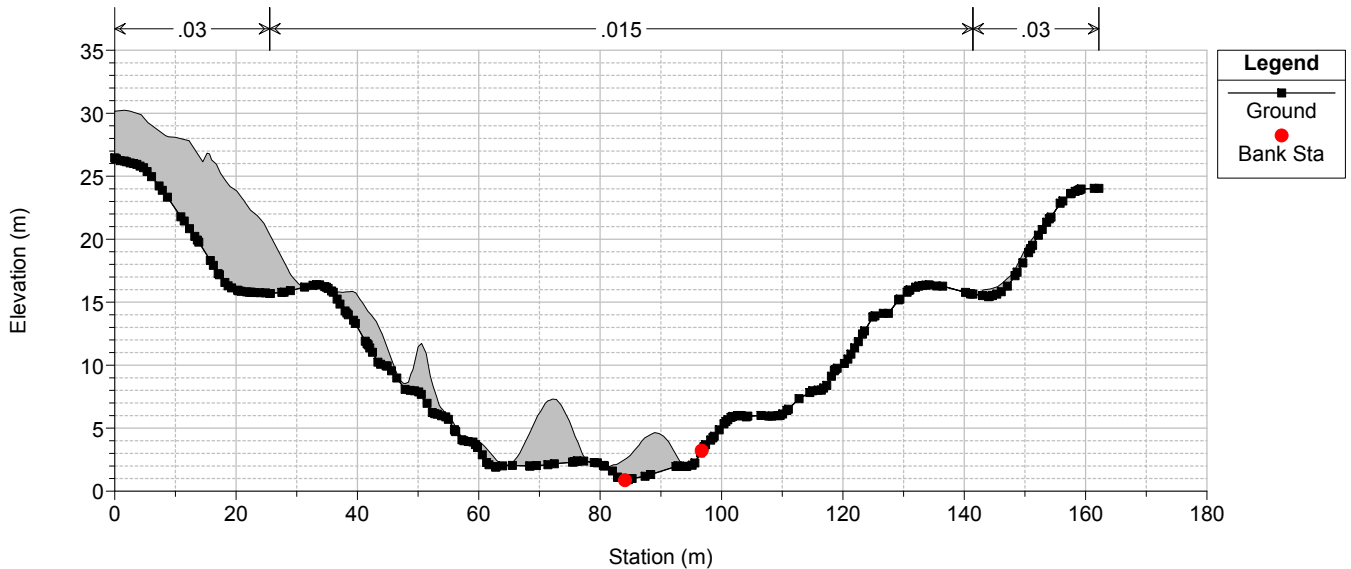
River = Rio Calabona Reach = Asta 3 RS = 43.54483 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

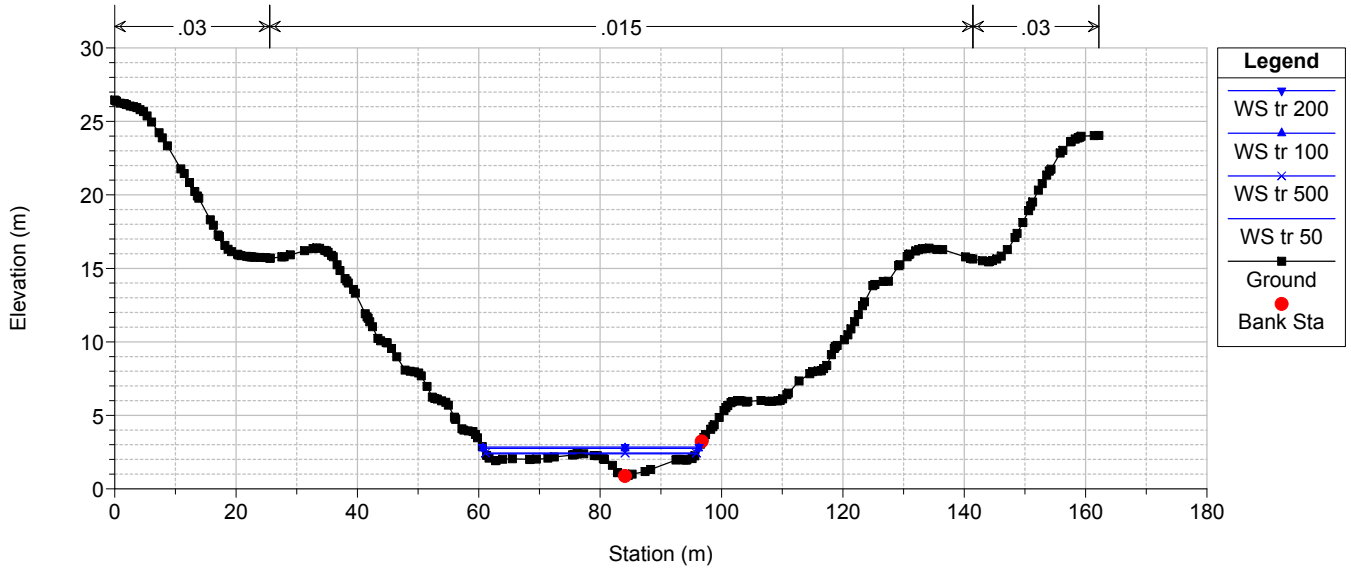
River = Rio Calabona Reach = Asta 3 RS = 43.54483 BR COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

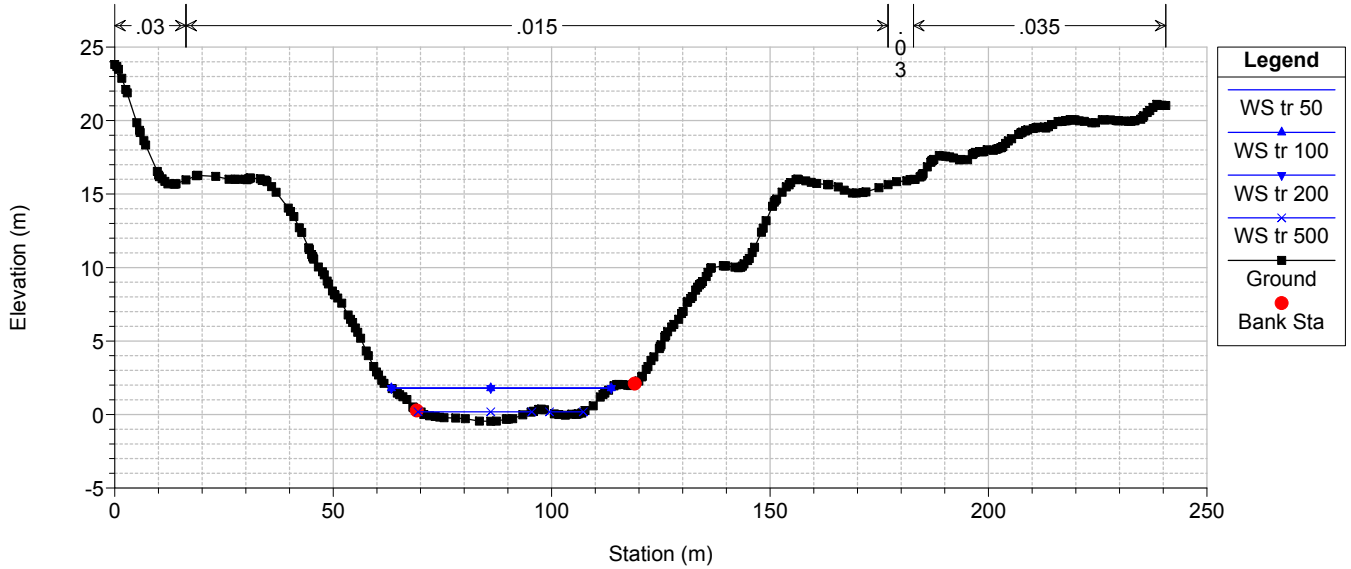
River = Rio Calabona Reach = Asta 3 RS = 28.38959 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



calabona19092017 Plan: Plan 01 25/09/2017

Geom: calabona19092017 Flow: calabona19092017

River = Rio Calabona Reach = Asta 3 RS = 9.768489 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



HEC-RAS Plan: 01 River: Rio Calabona Reach: Asta 3

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 3	604.1613	tr 50	62.72	16.56	18.38	18.38	18.91	0.028350	3.30	19.94	19.34	0.87
Asta 3	604.1613	tr 100	74.77	16.56	18.08	18.53	19.49	0.106366	5.36	14.51	16.73	1.58
Asta 3	604.1613	tr 200	86.96	16.56	18.15	18.66	19.79	0.113143	5.78	15.69	17.33	1.66
Asta 3	604.1613	tr 500	103.24	16.56	18.23	18.83	20.17	0.121087	6.28	17.17	18.05	1.75
Asta 3	578.0931	tr 50	62.72	15.62	16.50	16.86	17.71	0.074180	4.93	13.15	20.98	1.91
Asta 3	578.0931	tr 100	74.77	15.62	16.70	16.99	17.70	0.042571	4.47	17.45	21.65	1.52
Asta 3	578.0931	tr 200	86.96	15.62	16.78	17.10	17.91	0.043292	4.77	19.09	21.89	1.56
Asta 3	578.0931	tr 500	103.24	15.62	16.87	17.25	18.18	0.044424	5.15	21.10	22.18	1.61
Asta 3	528.0932	tr 50	62.72	14.00	15.29	15.25	15.76	0.010102	3.34	28.83	29.53	0.95
Asta 3	528.0932	tr 100	74.77	14.00	15.42	15.38	15.94	0.009927	3.54	32.81	30.29	0.96
Asta 3	528.0932	tr 200	86.96	14.00	15.56	15.51	16.12	0.009611	3.71	36.86	30.94	0.96
Asta 3	528.0932	tr 500	103.24	14.00	15.75	15.66	16.34	0.008820	3.84	42.77	31.79	0.94
Asta 3	478.0931	tr 50	62.72	11.98	14.08	14.08	14.58	0.104586	3.20	20.66	19.47	0.74
Asta 3	478.0931	tr 100	74.77	11.98	14.19	14.19	14.76	0.109409	3.39	22.87	20.37	0.76
Asta 3	478.0931	tr 200	86.96	11.98	14.28	14.28	14.95	0.116369	3.60	24.64	20.61	0.79
Asta 3	478.0931	tr 500	103.24	11.98	14.36	14.36	15.20	0.131510	3.92	26.33	20.83	0.85
Asta 3	428.0933	tr 50	62.72	9.92	10.90	11.16	11.83	0.032990	4.32	15.13	18.04	1.42
Asta 3	428.0933	tr 100	74.77	9.92	11.61	11.30	11.99	0.006508	2.78	29.10	21.11	0.69
Asta 3	428.0933	tr 200	86.96	9.92	11.82	11.44	12.20	0.005825	2.84	33.48	21.98	0.67
Asta 3	428.0933	tr 500	103.24	9.92	12.08	11.60	12.48	0.005205	2.93	40.41	31.61	0.64
Asta 3	378.0931	tr 50	62.72	9.52	11.51	10.58	11.57	0.000869	1.25	55.79	36.05	0.30
Asta 3	378.0931	tr 100	74.77	9.52	11.74		11.81	0.000803	1.30	64.16	36.94	0.29
Asta 3	378.0931	tr 200	86.96	9.52	11.95		12.03	0.000761	1.35	72.20	38.04	0.29
Asta 3	378.0931	tr 500	103.24	9.52	12.22		12.31	0.000793	1.49	84.11	46.64	0.30
Asta 3	328.0933	tr 50	62.72	8.03	10.78	10.78	11.42	0.007150	3.72	18.74	15.00	0.91
Asta 3	328.0933	tr 100	74.77	8.03	10.95	10.95	11.65	0.007083	3.94	21.28	15.64	0.92
Asta 3	328.0933	tr 200	86.96	8.03	11.12	11.12	11.87	0.006847	4.10	24.00	16.43	0.92
Asta 3	328.0933	tr 500	103.24	8.03	11.31	11.31	12.14	0.006742	4.33	27.35	17.50	0.92
Asta 3	278.0932	tr 50	62.72	5.73	7.14	8.10	10.42	0.045956	8.27	8.25	8.07	2.34
Asta 3	278.0932	tr 100	74.77	5.73	7.33	8.50	10.69	0.039964	8.44	9.78	8.55	2.23
Asta 3	278.0932	tr 200	86.96	5.73	7.50	8.66	10.94	0.035612	8.59	11.32	8.96	2.15
Asta 3	278.0932	tr 500	103.24	5.73	7.73	8.85	11.25	0.031185	8.76	13.39	9.53	2.05
Asta 3	228.0932	tr 50	62.72	5.06	6.89	7.32	8.29	0.022653	5.46	12.51	13.20	1.60
Asta 3	228.0932	tr 100	74.77	5.06	6.98	7.50	8.64	0.024450	5.96	13.75	13.58	1.68
Asta 3	228.0932	tr 200	86.96	5.06	7.07	7.66	8.97	0.025895	6.41	14.95	13.94	1.75
Asta 3	228.0932	tr 500	103.24	5.06	7.18	7.87	9.39	0.027395	6.94	16.51	14.39	1.82
Asta 3	178.0933	tr 50	62.72	3.72	5.63	6.35	7.25	0.018573	5.77	11.75	10.33	1.50
Asta 3	178.0933	tr 100	74.77	3.72	5.79	6.49	7.58	0.018213	6.11	13.46	11.13	1.51
Asta 3	178.0933	tr 200	86.96	3.72	5.94	6.61	7.90	0.018099	6.44	15.16	13.67	1.53
Asta 3	178.0933	tr 500	103.24	3.72	6.12	6.76	8.28	0.017926	6.84	18.74	23.21	1.54
Asta 3	128.0932	tr 50	62.72	2.78	4.64	5.11	6.16	0.024501	5.83	12.35	14.04	1.65
Asta 3	128.0932	tr 100	74.77	2.78	4.74	5.28	6.49	0.026117	6.31	13.67	14.39	1.72
Asta 3	128.0932	tr 200	86.96	2.78	4.82	5.43	6.79	0.027297	6.72	14.97	14.74	1.78
Asta 3	128.0932	tr 500	103.24	2.78	4.94	5.64	7.17	0.028188	7.19	16.70	15.18	1.83
Asta 3	82.0579	tr 50	62.72	2.00	3.08	3.62	4.81	0.034453	6.00	11.10	13.67	1.95
Asta 3	82.0579	tr 100	74.77	2.00	3.18	3.79	5.12	0.033527	6.36	12.62	14.36	1.96
Asta 3	82.0579	tr 200	86.96	2.00	3.28	3.91	5.41	0.033005	6.69	14.08	14.98	1.98
Asta 3	82.0579	tr 500	103.24	2.00	3.41	4.09	5.77	0.032493	7.09	15.95	15.75	1.99
Asta 3	67.52119	tr 50	62.72	1.98	2.96	3.38	4.22	0.028752	5.51	12.97	16.77	1.79
Asta 3	67.52119	tr 100	74.77	1.98	3.04	3.57	4.52	0.030938	6.02	14.29	17.40	1.88
Asta 3	67.52119	tr 200	86.96	1.98	3.11	3.65	4.81	0.032706	6.48	15.59	18.03	1.96
Asta 3	67.52119	tr 500	103.24	1.98	3.21	3.74	5.17	0.034873	7.06	17.34	19.21	2.05
Asta 3	28.38959	tr 50	62.72	0.85	2.38	2.67	3.79	0.005595	5.97	13.53	18.33	1.66
Asta 3	28.38959	tr 100	74.77	0.85	2.76	2.76	3.13	0.001337	3.45	31.10	35.51	0.84
Asta 3	28.38959	tr 200	86.96	0.85	2.84	2.84	3.25	0.001398	3.64	33.94	35.70	0.87
Asta 3	28.38959	tr 500	103.24	0.85	2.43	2.94	4.53	0.009075	7.82	19.71	34.74	2.12
Asta 3	9.768489	tr 50	62.72	-0.46	1.80	0.53	1.83	0.000060	0.79	82.74	50.36	0.18
Asta 3	9.768489	tr 100	74.77	-0.46	1.80	0.61	1.84	0.000086	0.94	82.74	50.36	0.22
Asta 3	9.768489	tr 200	86.96	-0.46	1.80	0.68	1.86	0.000116	1.09	82.74	50.36	0.25
Asta 3	9.768489	tr 500	103.24	-0.46	0.18	0.78	3.95	0.066471	8.60	12.00	33.79	4.61

COMUNE DI ALGHERO (SS)

Studio di compatibilità idraulica ai sensi dell'art. 8 comma 2bis delle N.A. del PAI

Area d'indagine: territorio comunale

SIMULAZIONI IN MOTO PERMANENTE

Gruppo Rio Scamungada

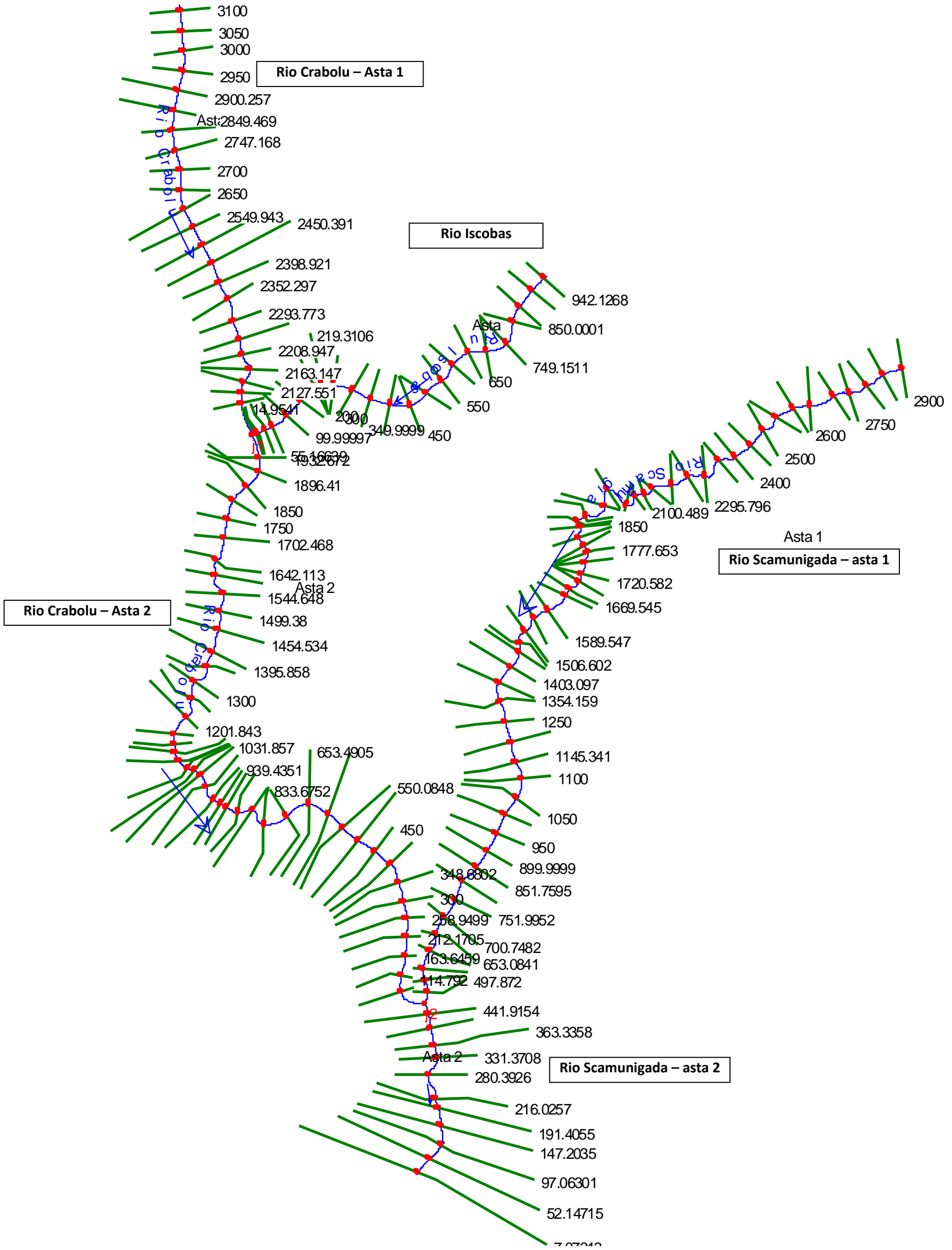
Aste torrentizie studiate:

- Rio Crabolu (2 aste)
- Rio Scamungada (2aste)
- Rio Iscobas (Rocca Branca)

- Schemi planimetrici
- Profili longitudinali dei tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Sezioni trasversali con i tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Tabelle numeriche delle grandezze geometriche e idrauliche di input e output

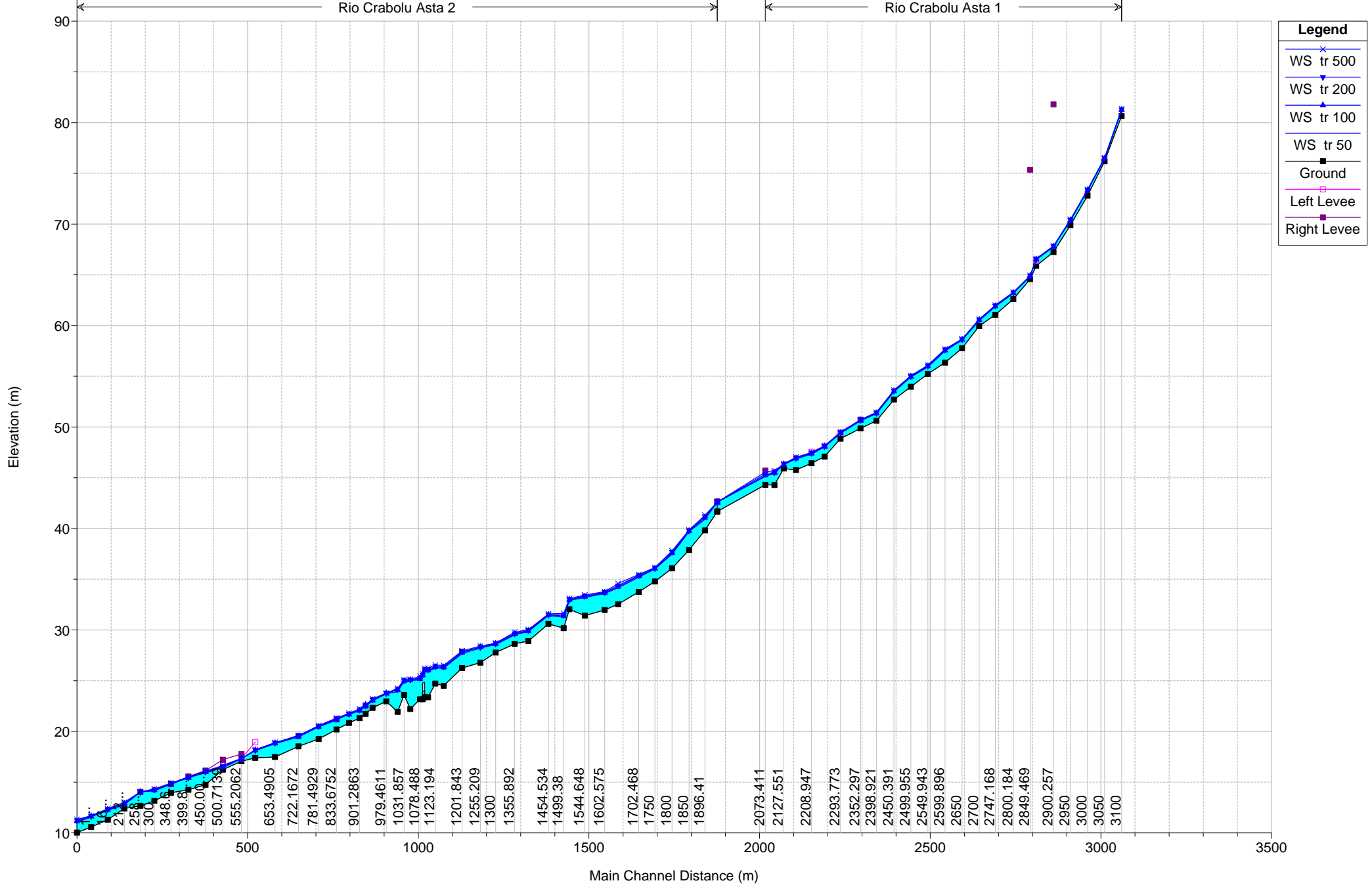
River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
Rio Crabolu	Asta 1	3100	17.727	20.586	23.513	27.606
Rio Crabolu	Asta 2	1932.672	39.131	46.314	53.611	63.517
Rio Scamungia	Asta 1	2900	13.461	15.82	18.244	21.634
Rio Scamungia	Asta 1	1000	22.51	26.724	31.04	36.994
Rio Scamungia	Asta 2	441.9154	59.825	71.386	83.155	99.1
Riu Iscobas	Asta	942.1268	5.16	5.83	6.54	7.58

River	Reach	PROFILI	CONDIZIONI AL CONTORNO	
			upstream	downstream
Rio Crabolu	Asta 1	tutti	Critical depth	junction=j1
Rio Crabolu	Asta 2	tutti	junction=j1	junction=j2
Rio Scamungia	Asta 1	tutti	Critical depth	junction=j2
Rio Scamungia	Asta 1	tutti	junction=j2	Known WS=1.80 m slm
Riu Iscobas	Asta	tutti	Critical depth	junction=j1

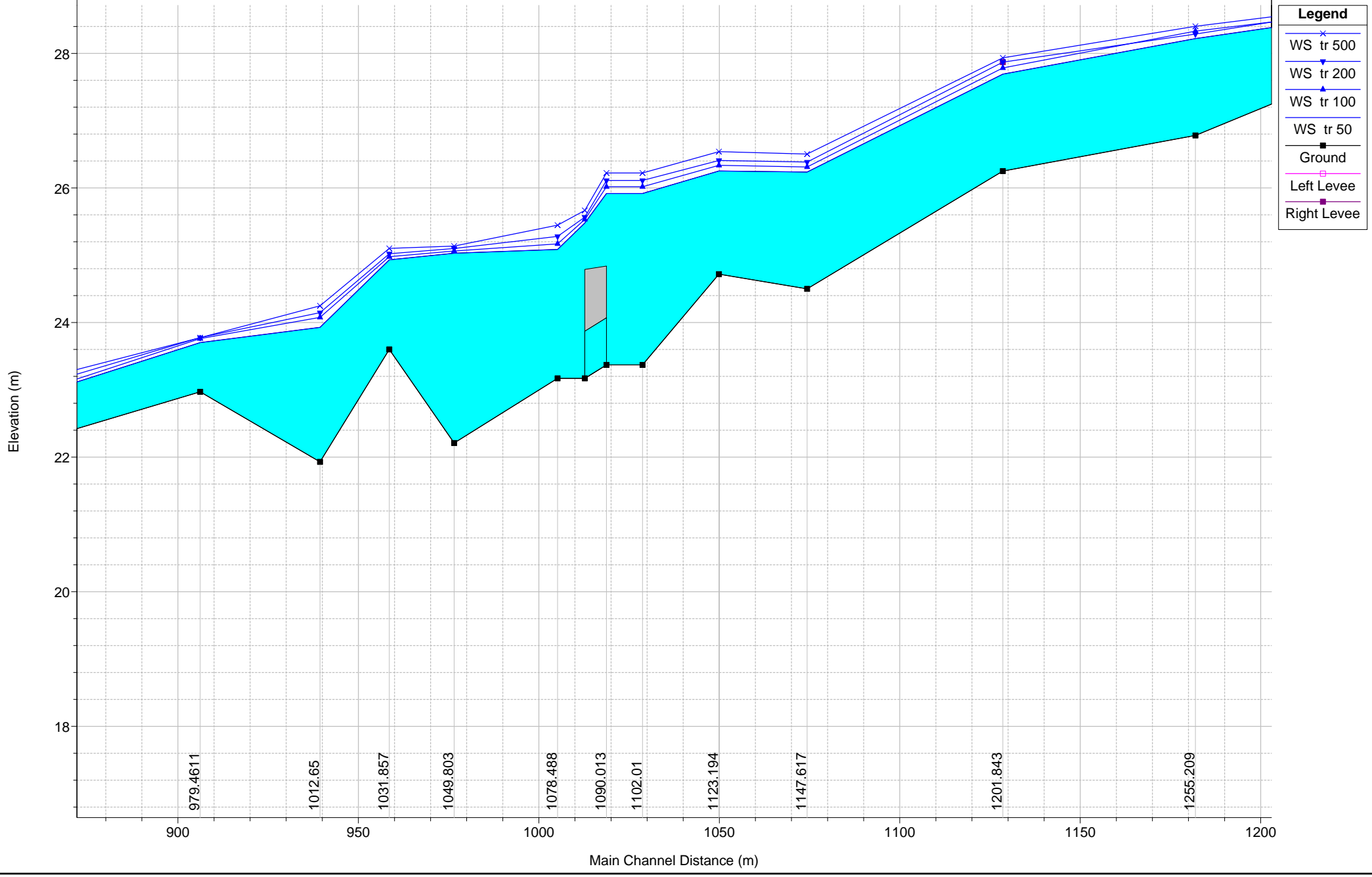


scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



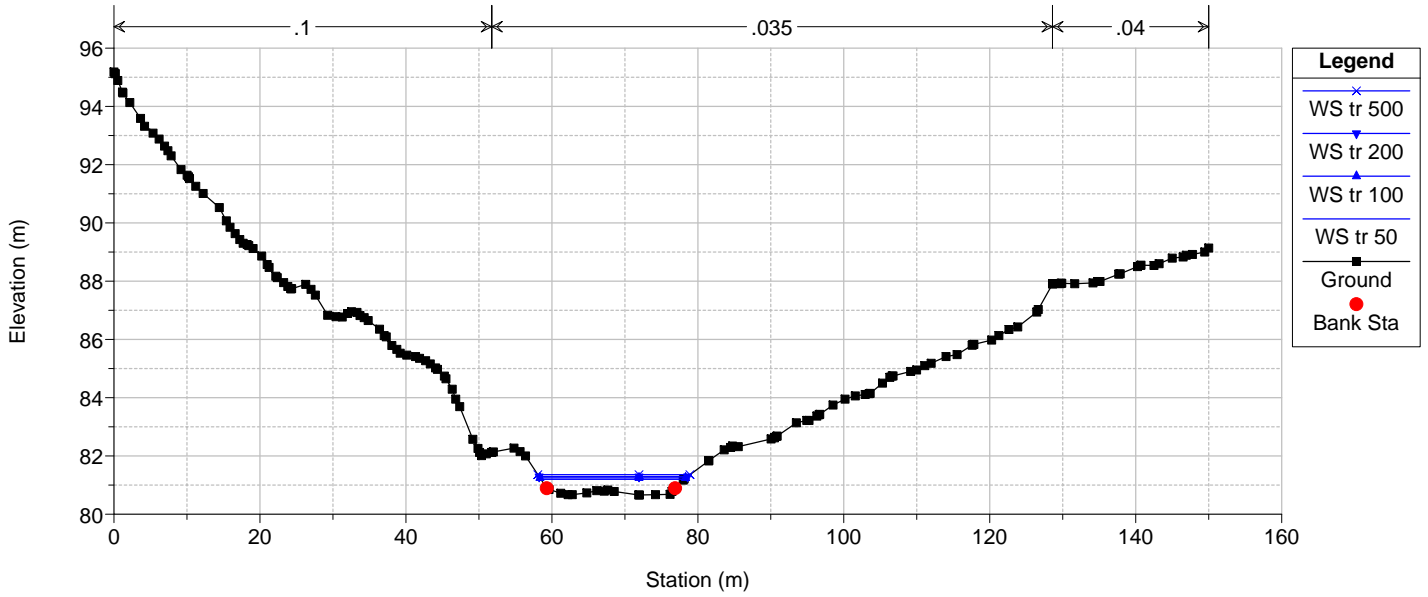
Rio Crabolu Asta 2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

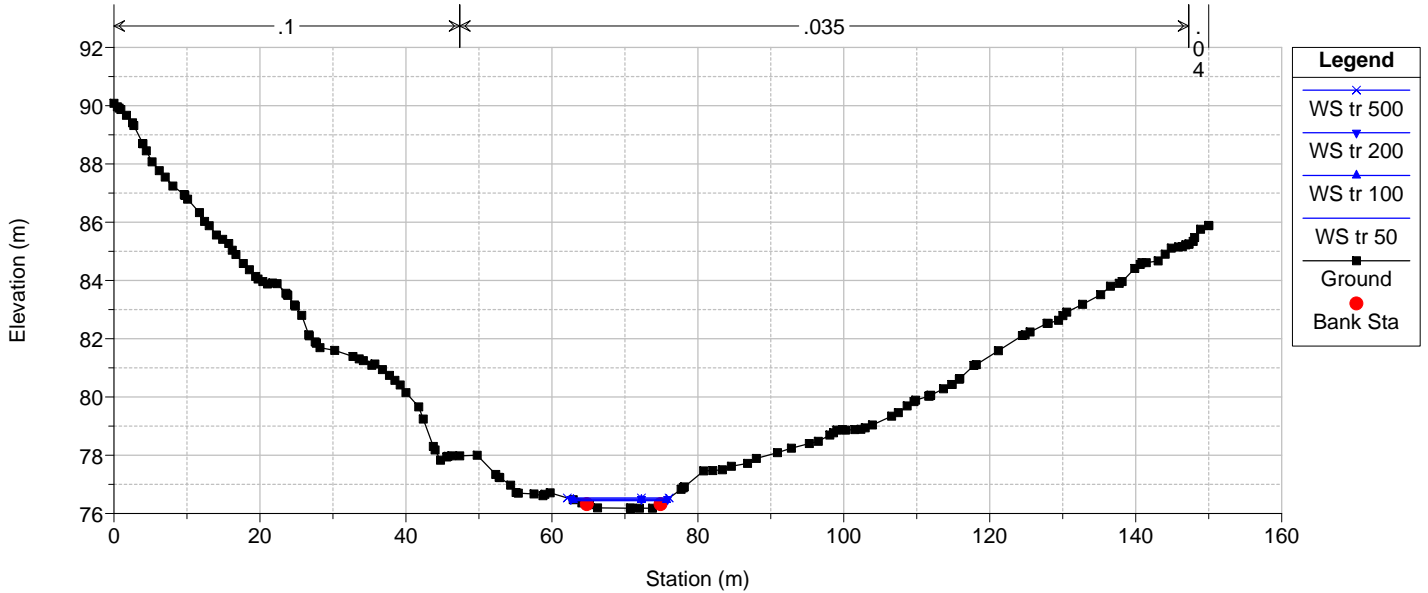
River = Rio Crabolu Reach = Asta 1 RS = 3100 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

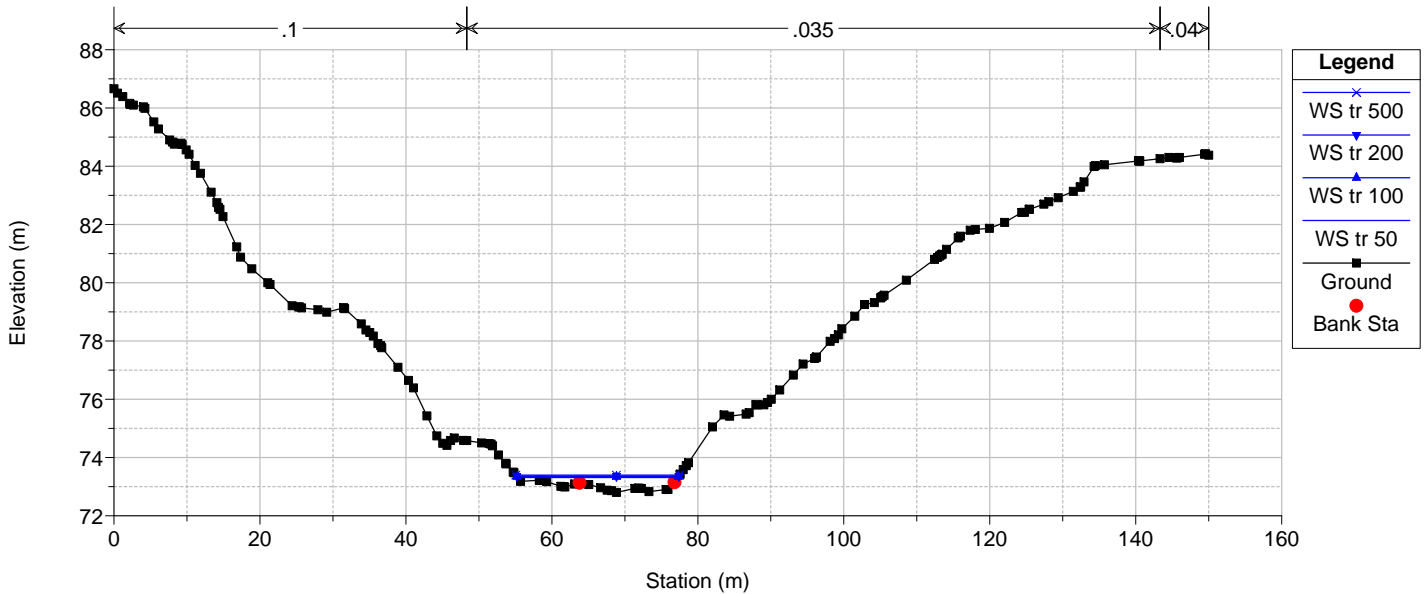
River = Rio Crabolu Reach = Asta 1 RS = 3050 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

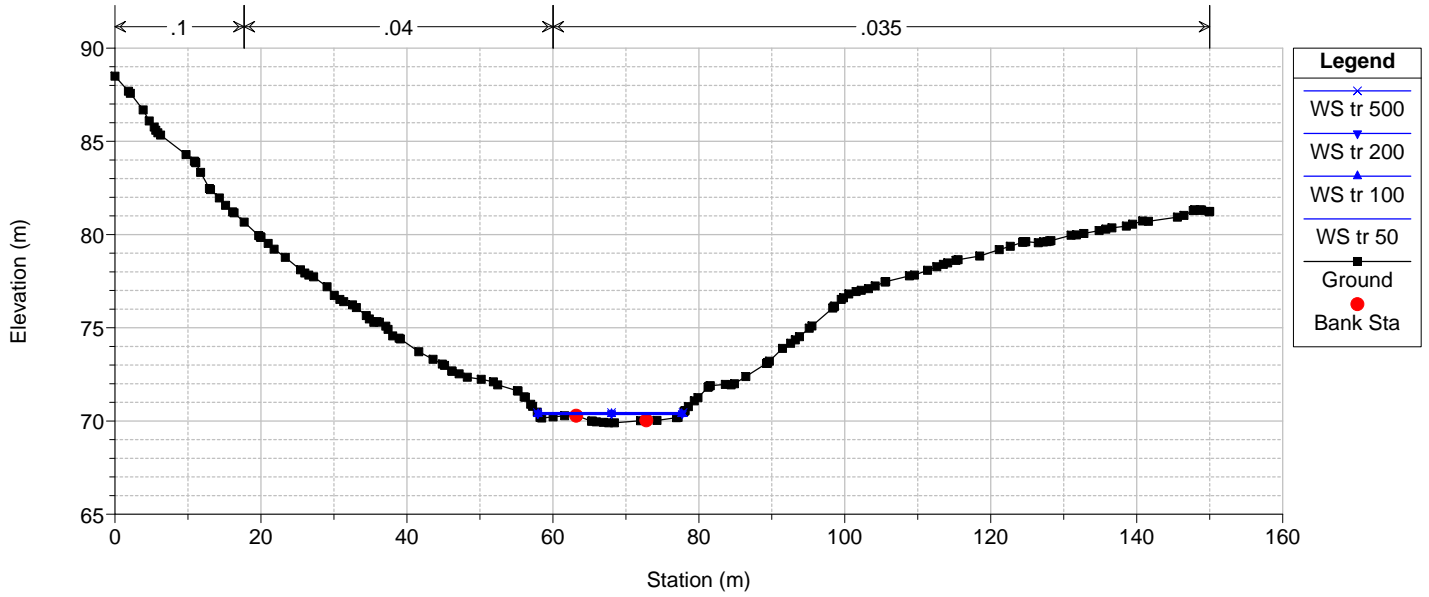
River = Rio Crabolu Reach = Asta 1 RS = 3000 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

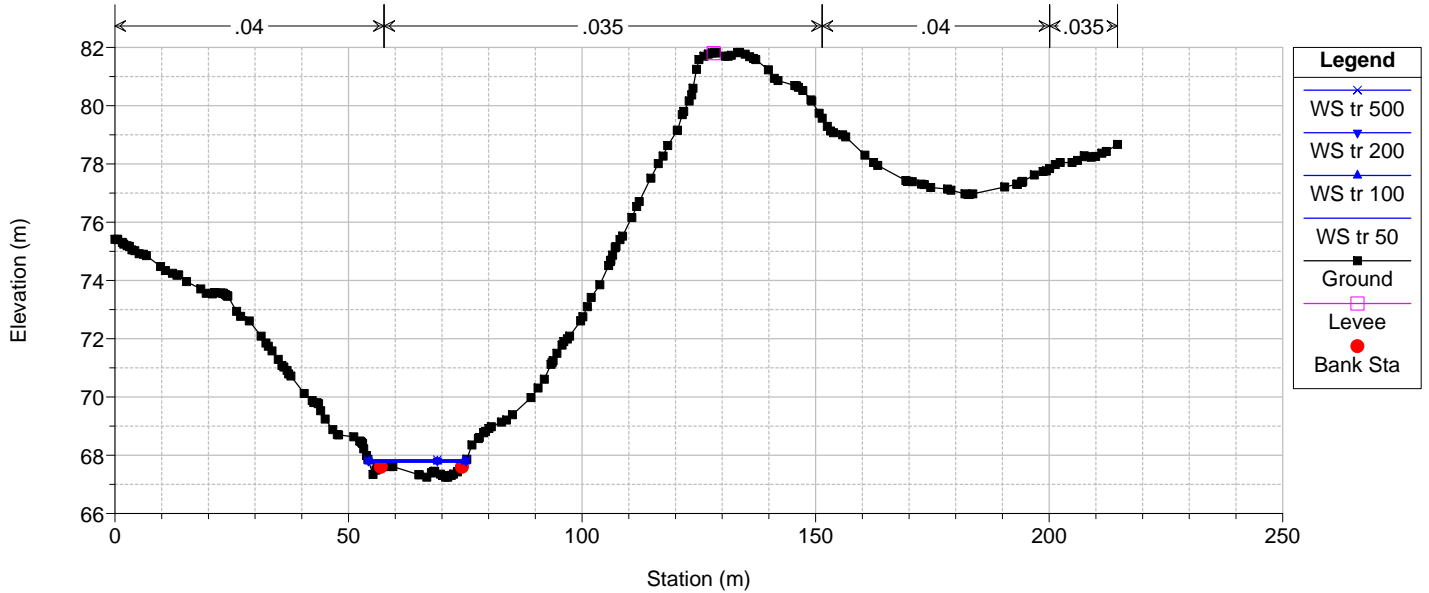
River = Rio Crabolu Reach = Asta 1 RS = 2950 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

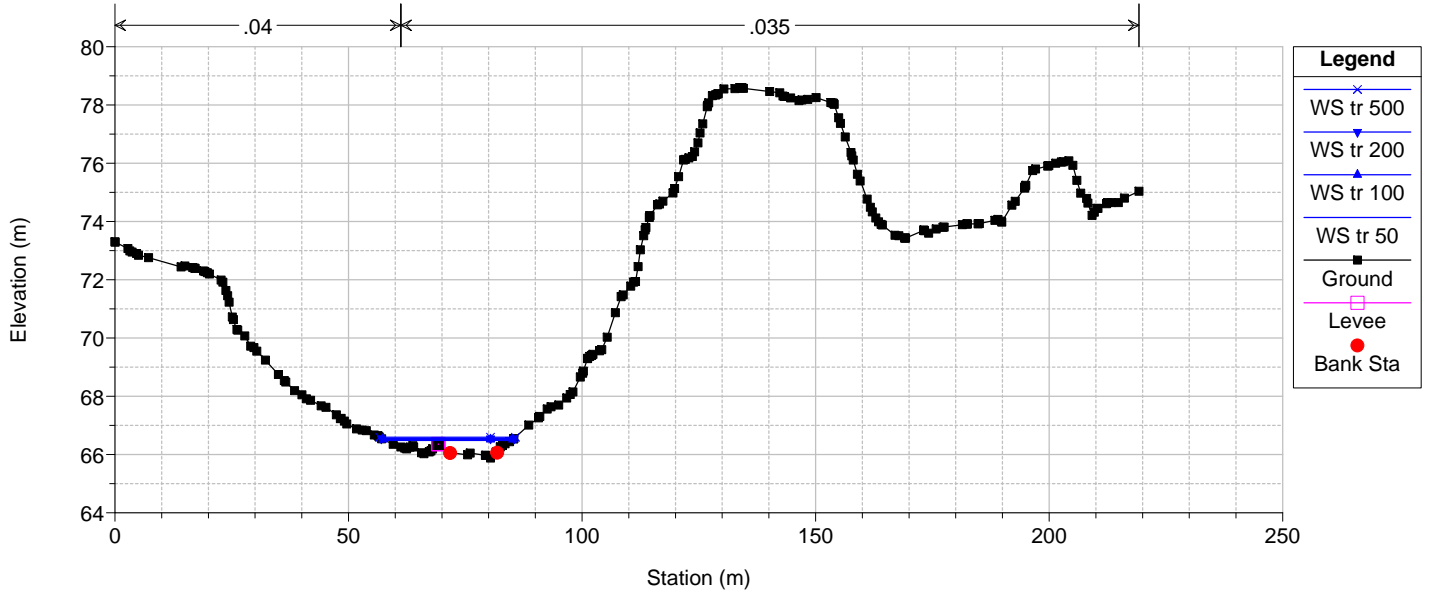
River = Rio Crabolu Reach = Asta 1 RS = 2900.257 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

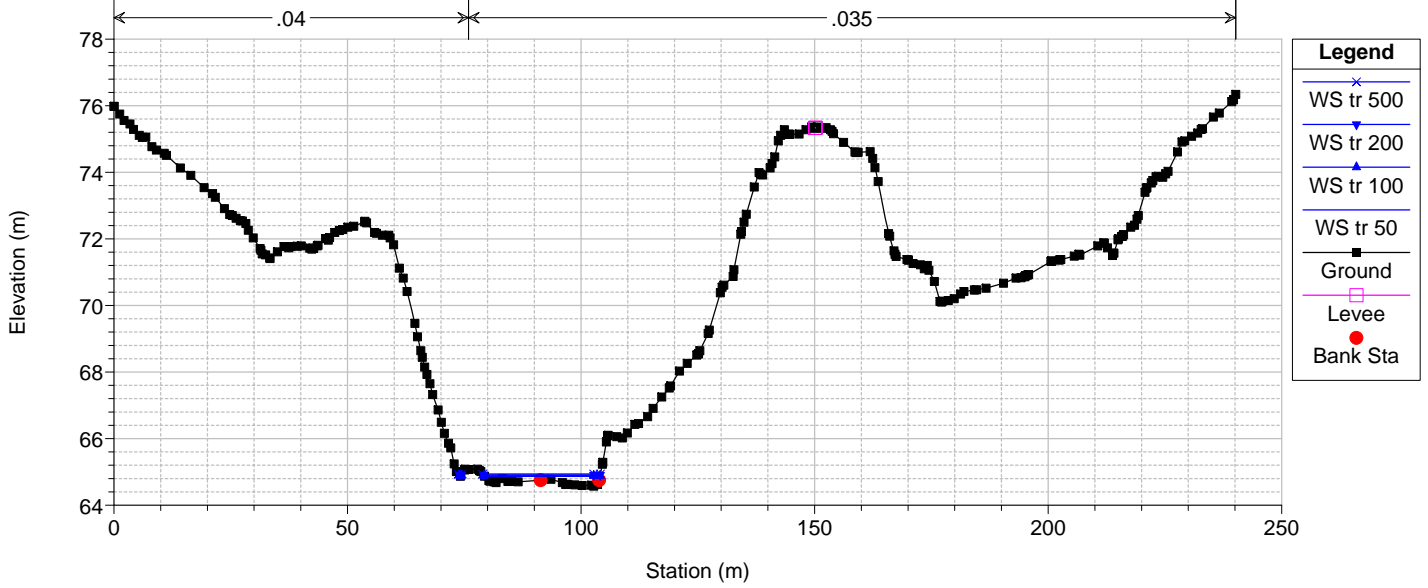
River = Rio Crabolu Reach = Asta 1 RS = 2866.996 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

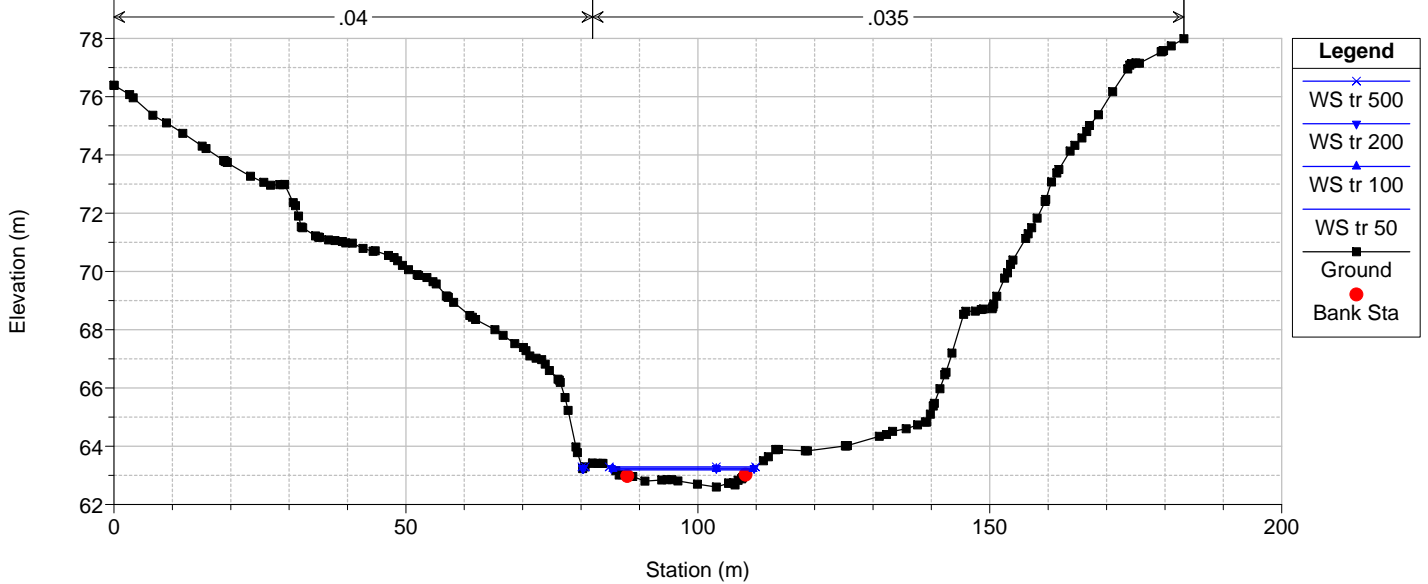
River = Rio Crabolu Reach = Asta 1 RS = 2849.469 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

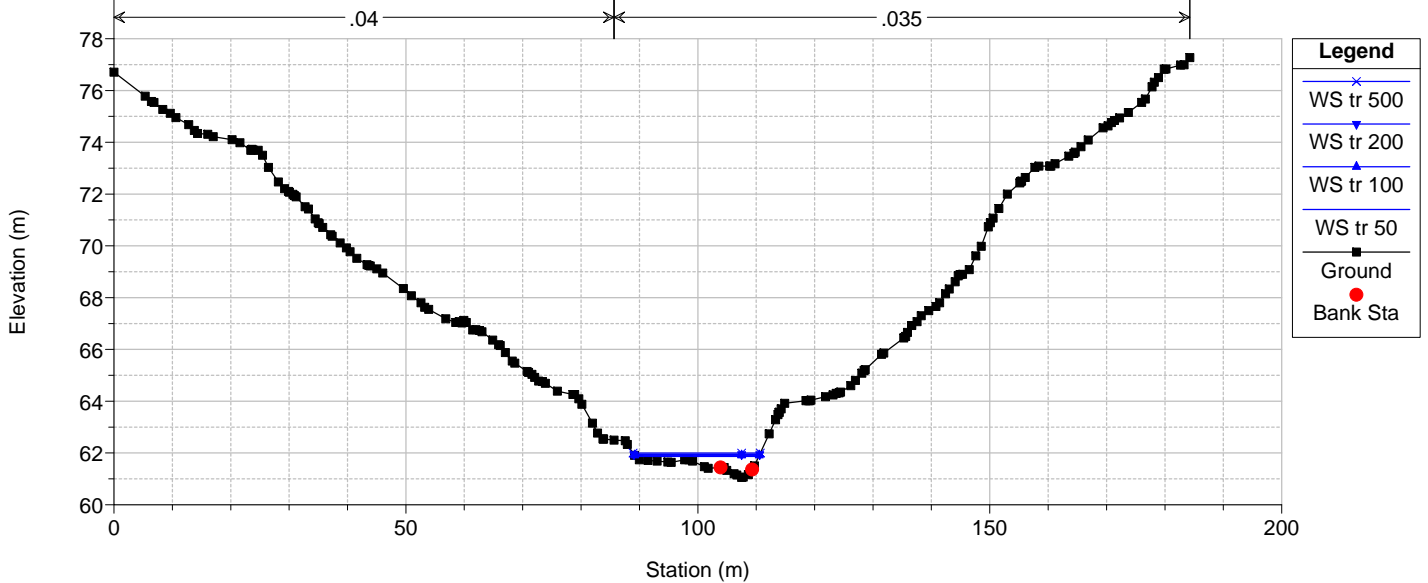
River = Rio Crabolu Reach = Asta 1 RS = 2800.184 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

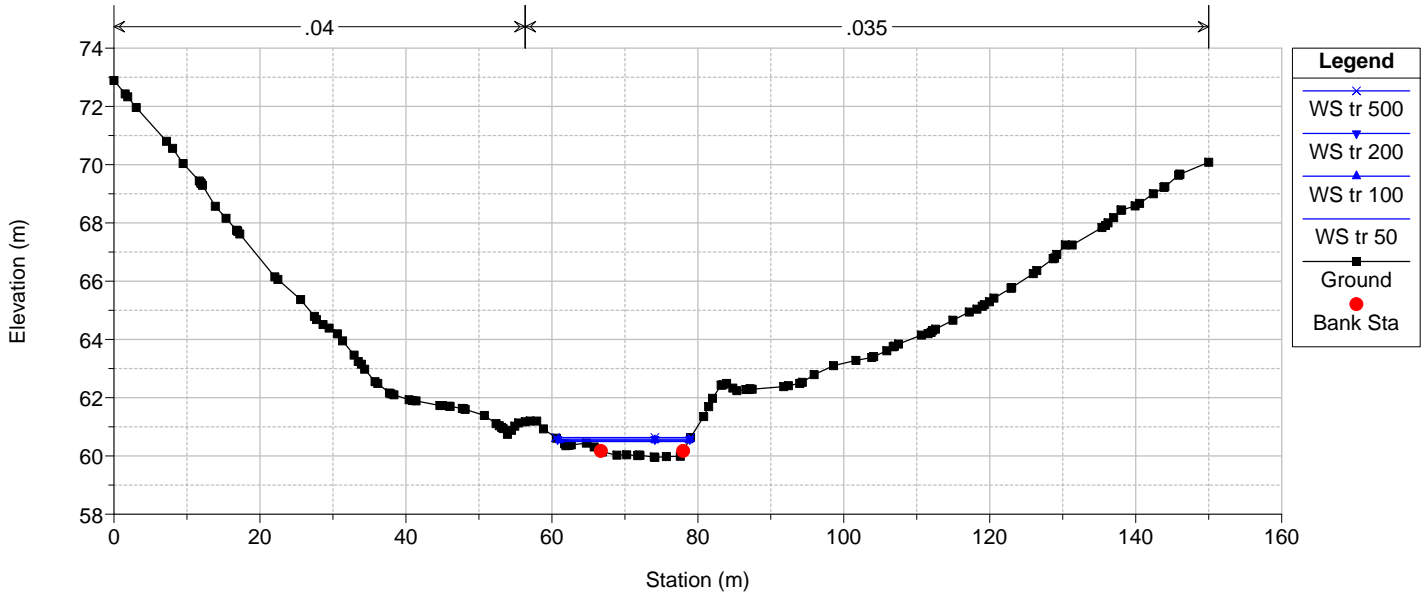
River = Rio Crabolu Reach = Asta 1 RS = 2747.168 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

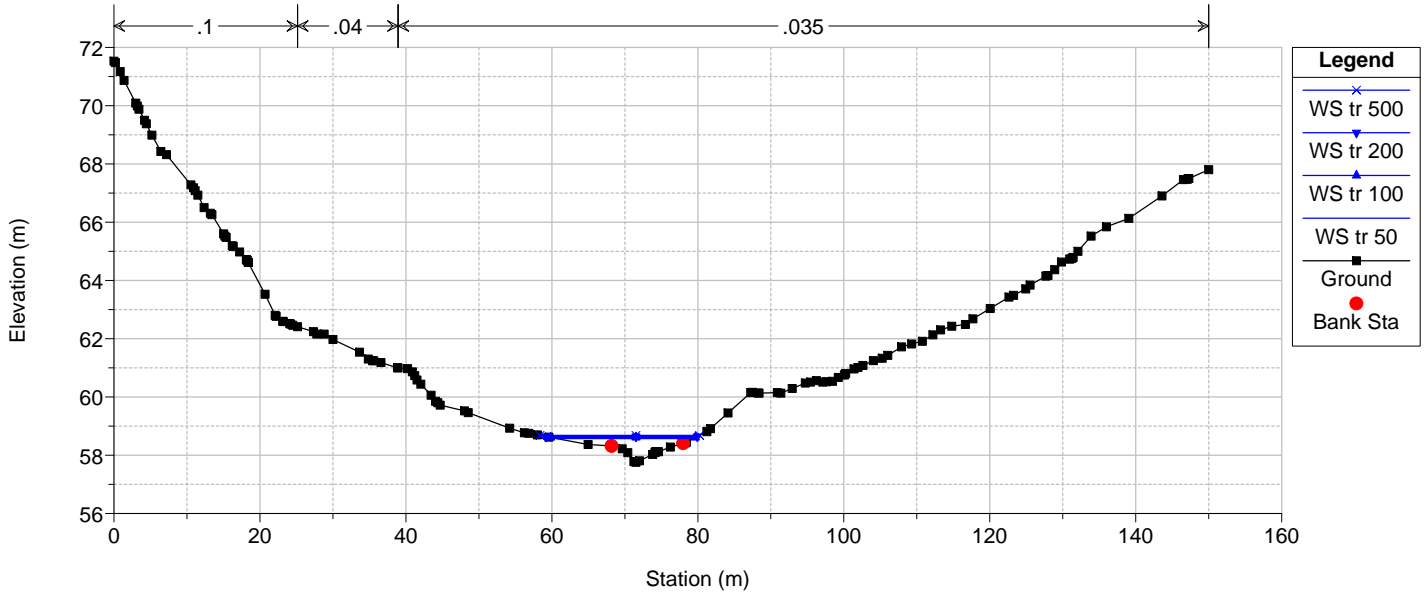
River = Rio Crabolu Reach = Asta 1 RS = 2700 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

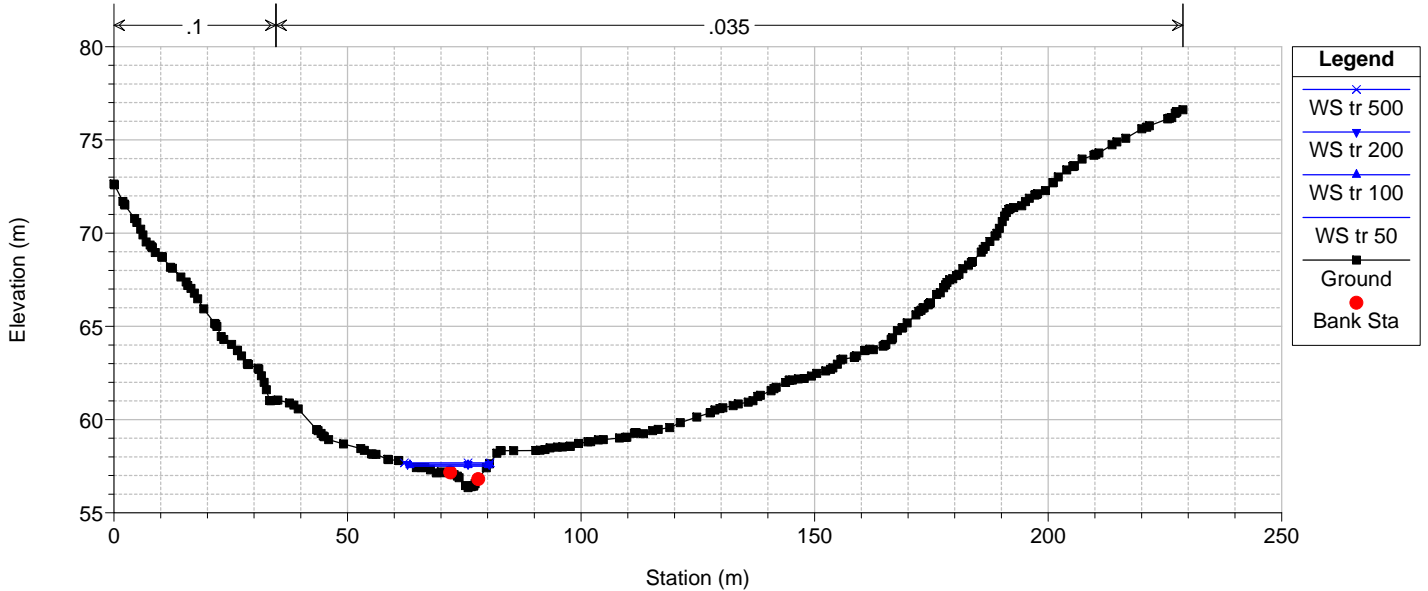
River = Rio Crabolu Reach = Asta 1 RS = 2650 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

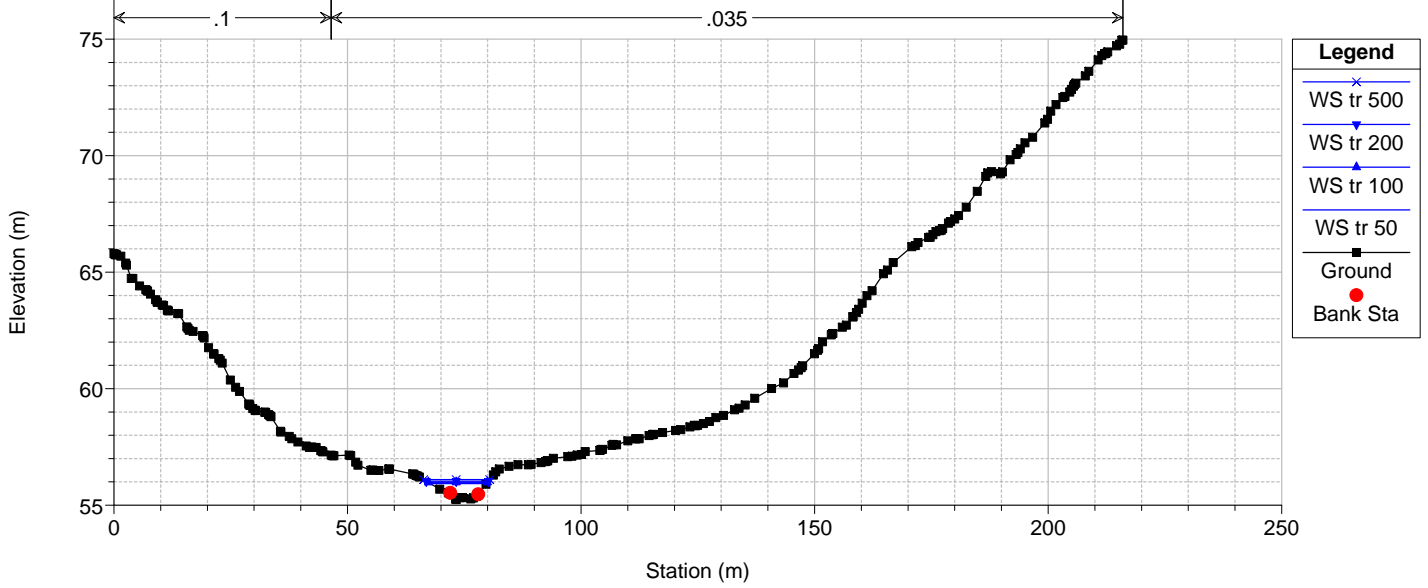
River = Rio Crabolu Reach = Asta 1 RS = 2599.896 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

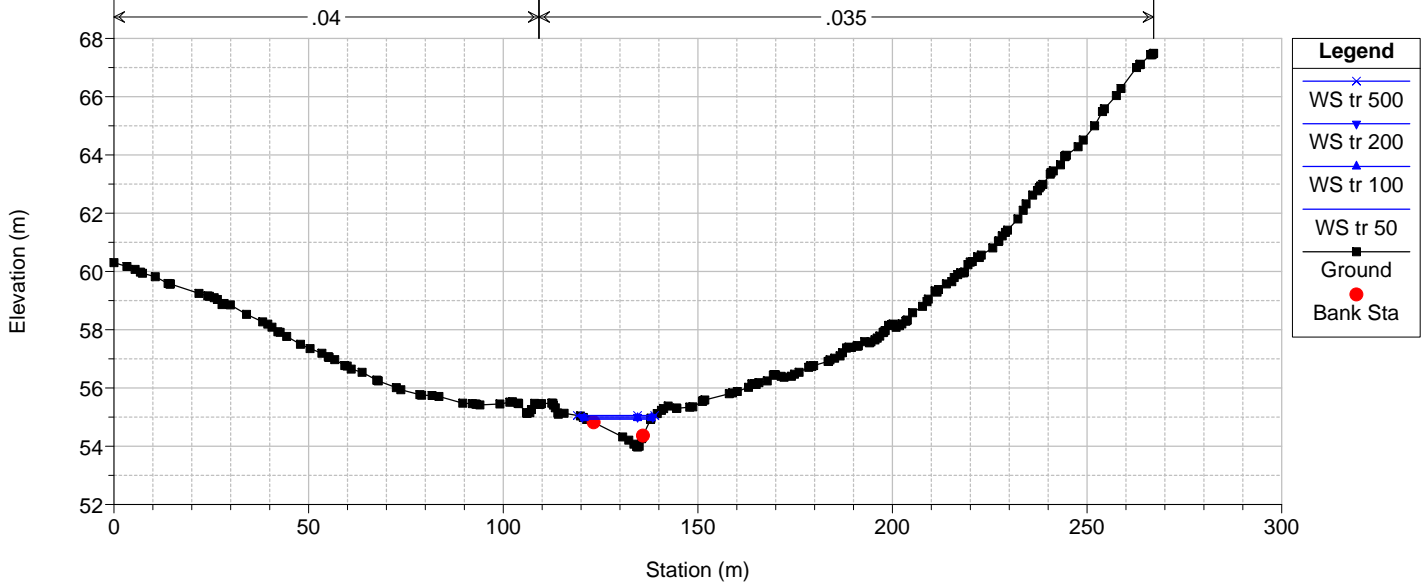
River = Rio Crabolu Reach = Asta 1 RS = 2549.943 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

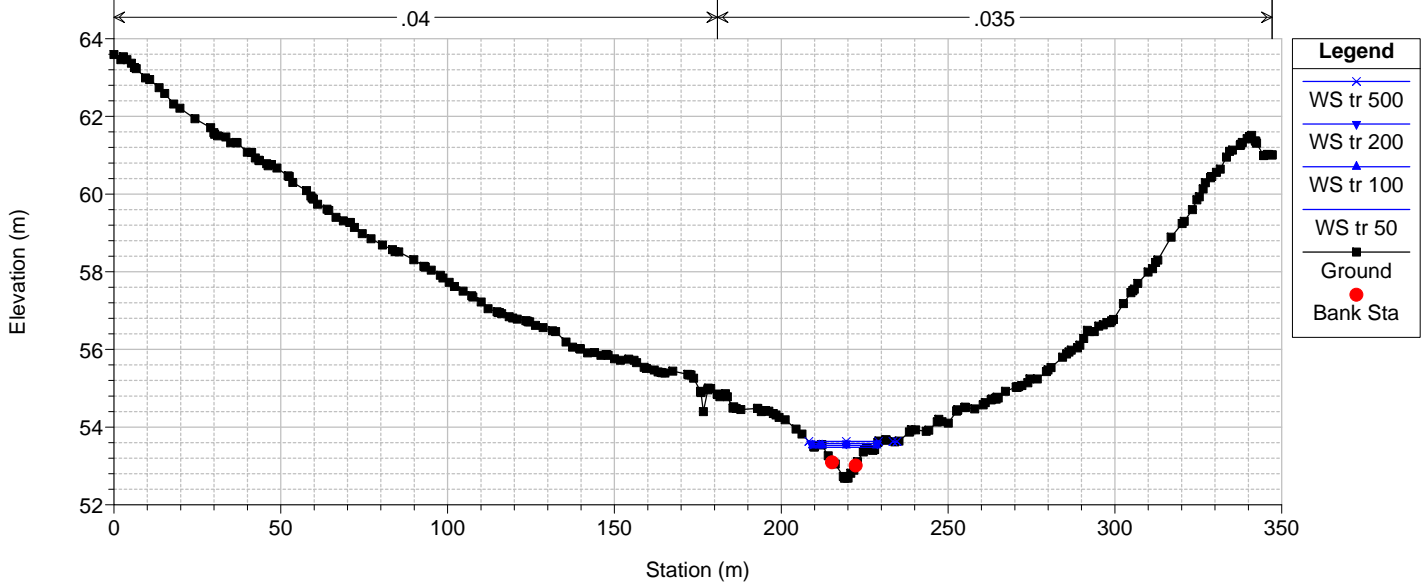
River = Rio Crabolu Reach = Asta 1 RS = 2499.955 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

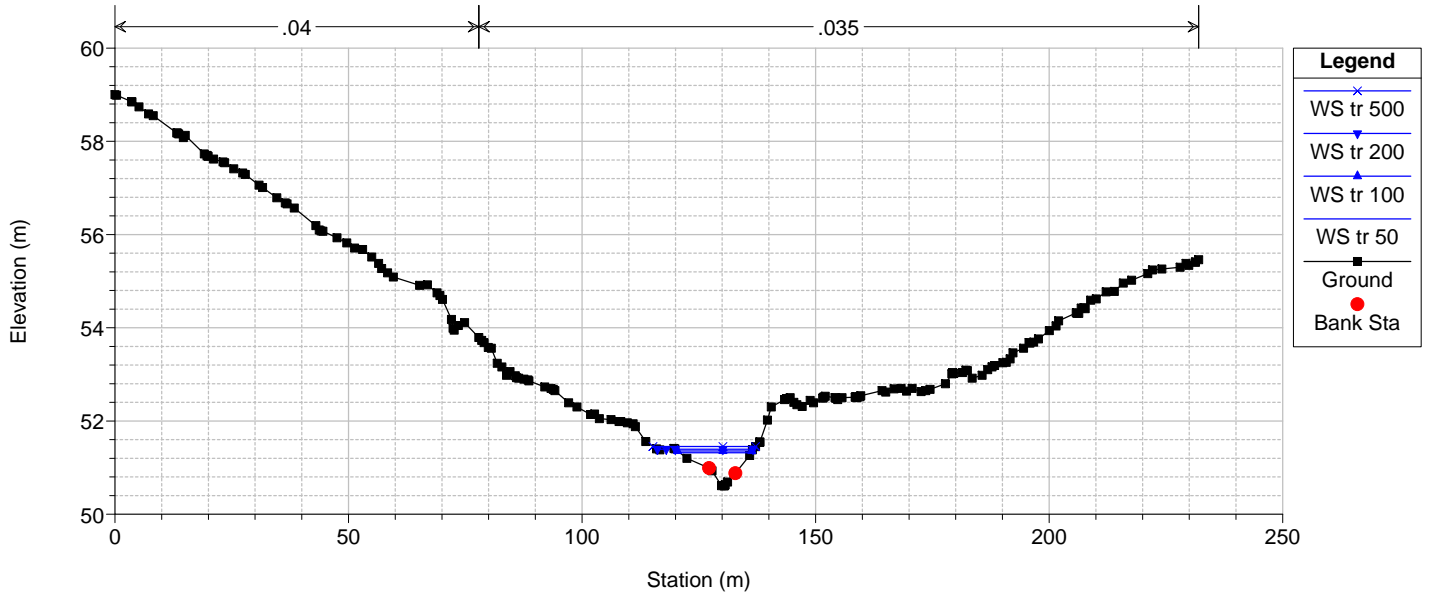
River = Rio Crabolu Reach = Asta 1 RS = 2450.391 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

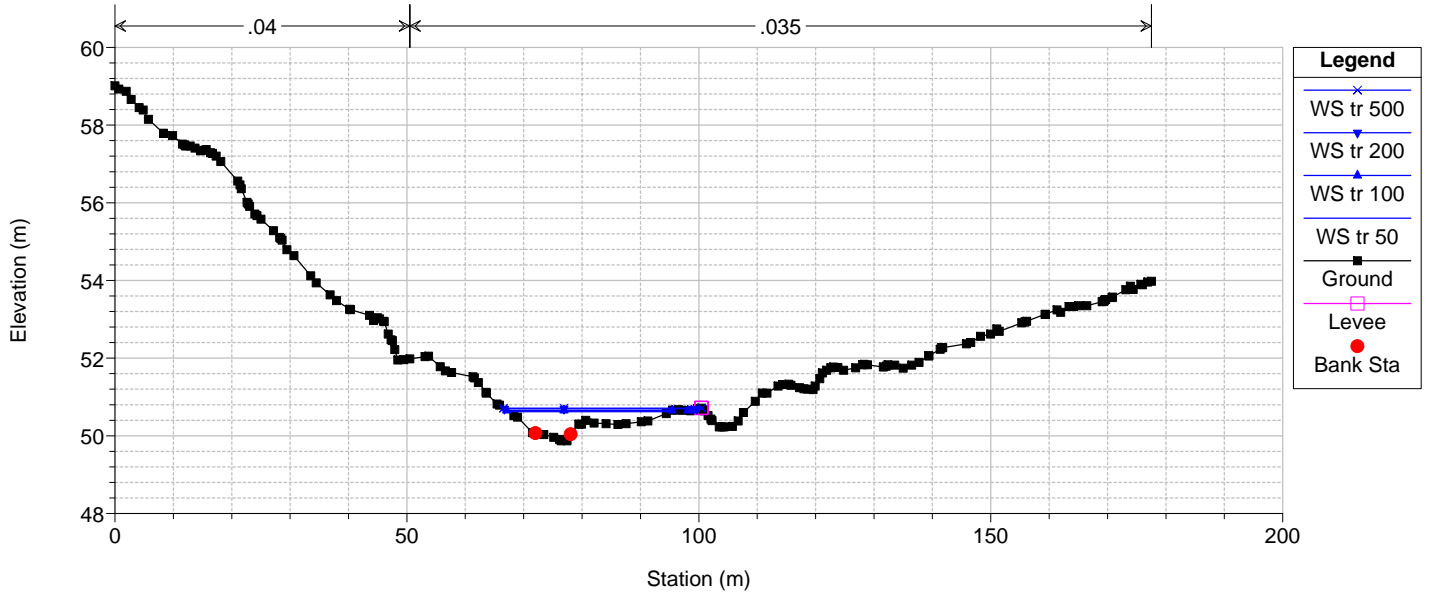
River = Rio Crabolu Reach = Asta 1 RS = 2398.921 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

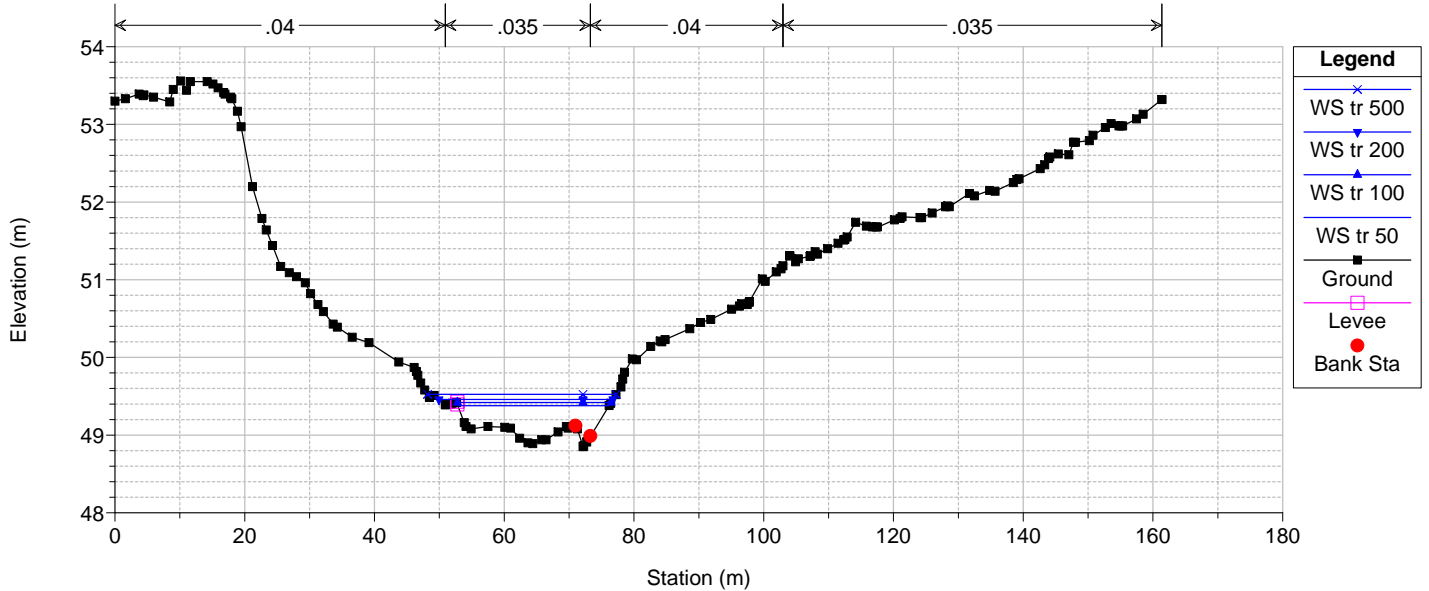
River = Rio Crabolu Reach = Asta 1 RS = 2352.297 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

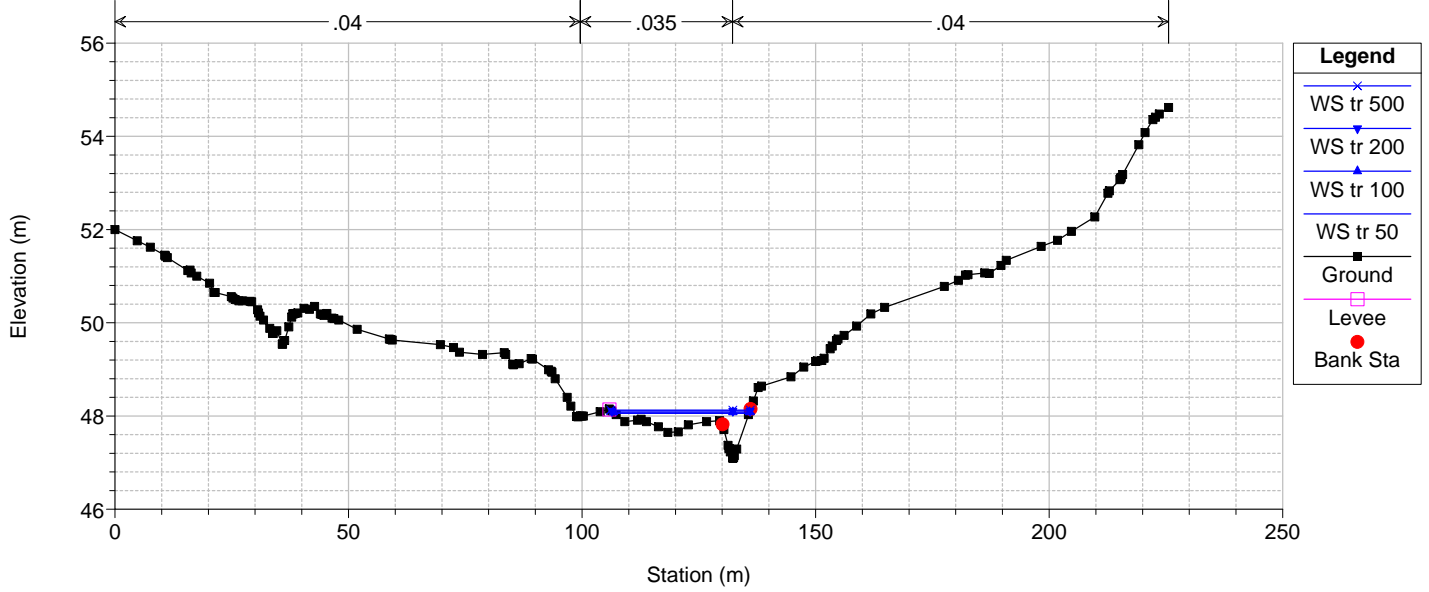
River = Rio Crabolu Reach = Asta 1 RS = 2293.773 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

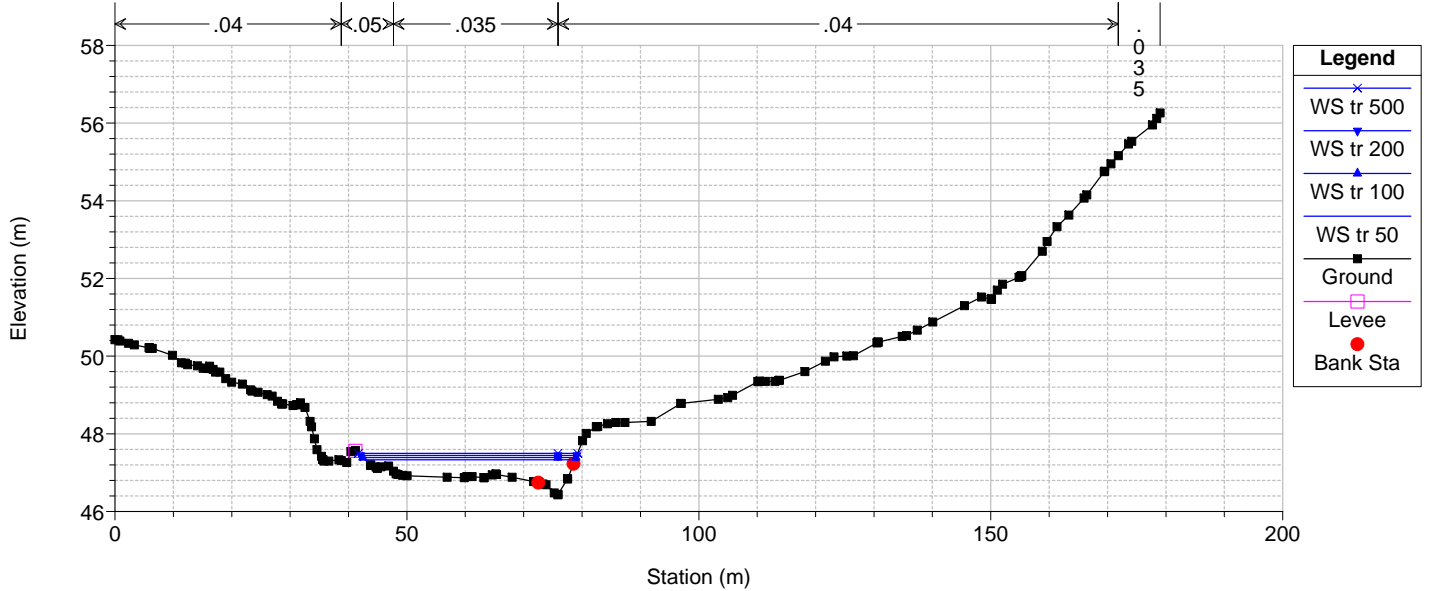
River = Rio Crabolu Reach = Asta 1 RS = 2246.979 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

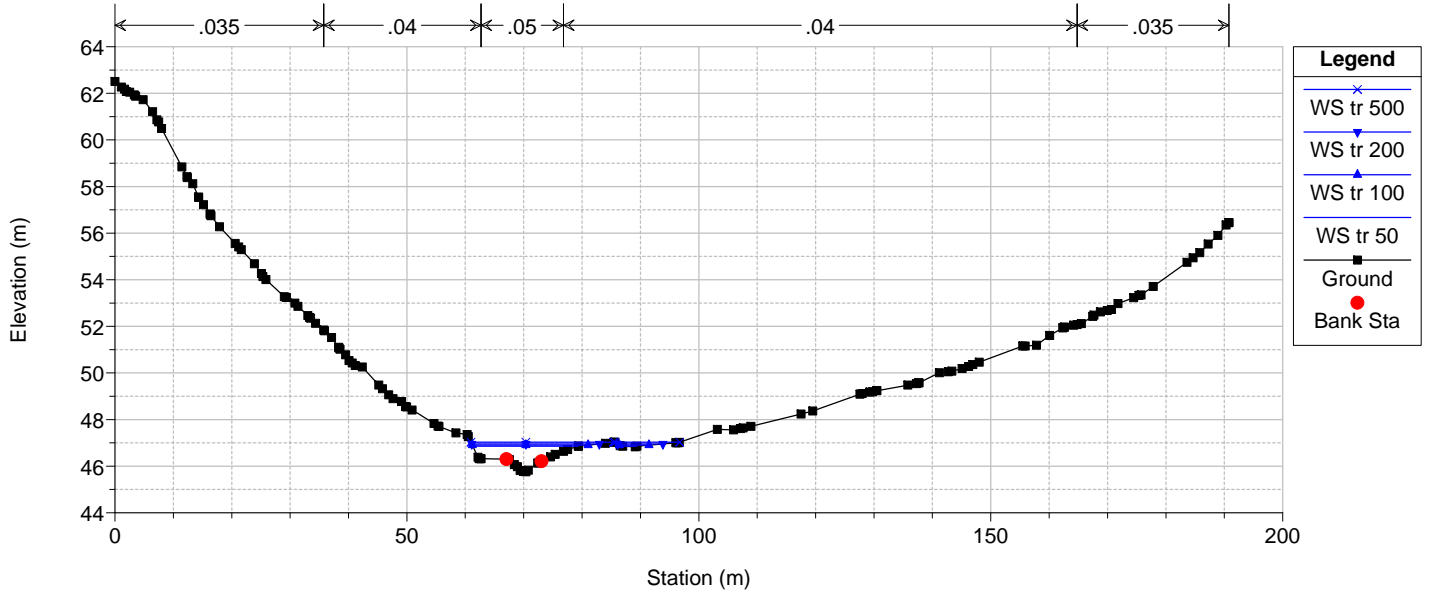
River = Rio Crabolu Reach = Asta 1 RS = 2208.947 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

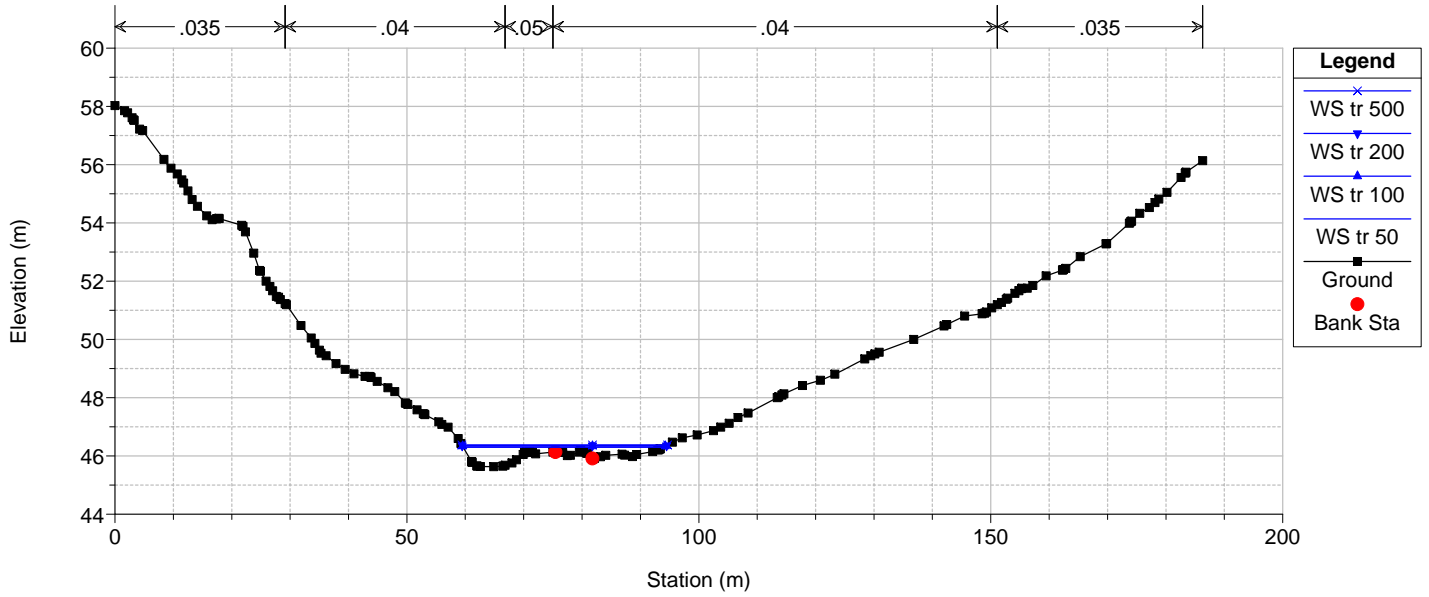
River = Rio Crabolu Reach = Asta 1 RS = 2163.147 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

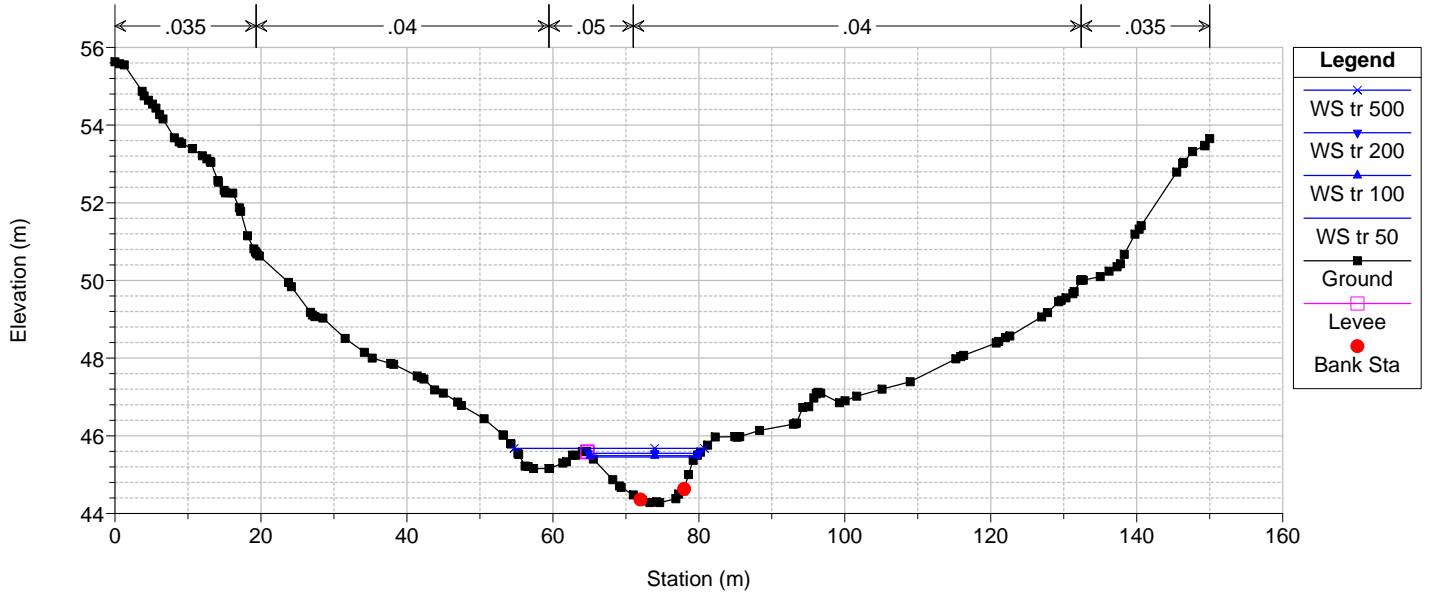
River = Rio Crabolu Reach = Asta 1 RS = 2127.551 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

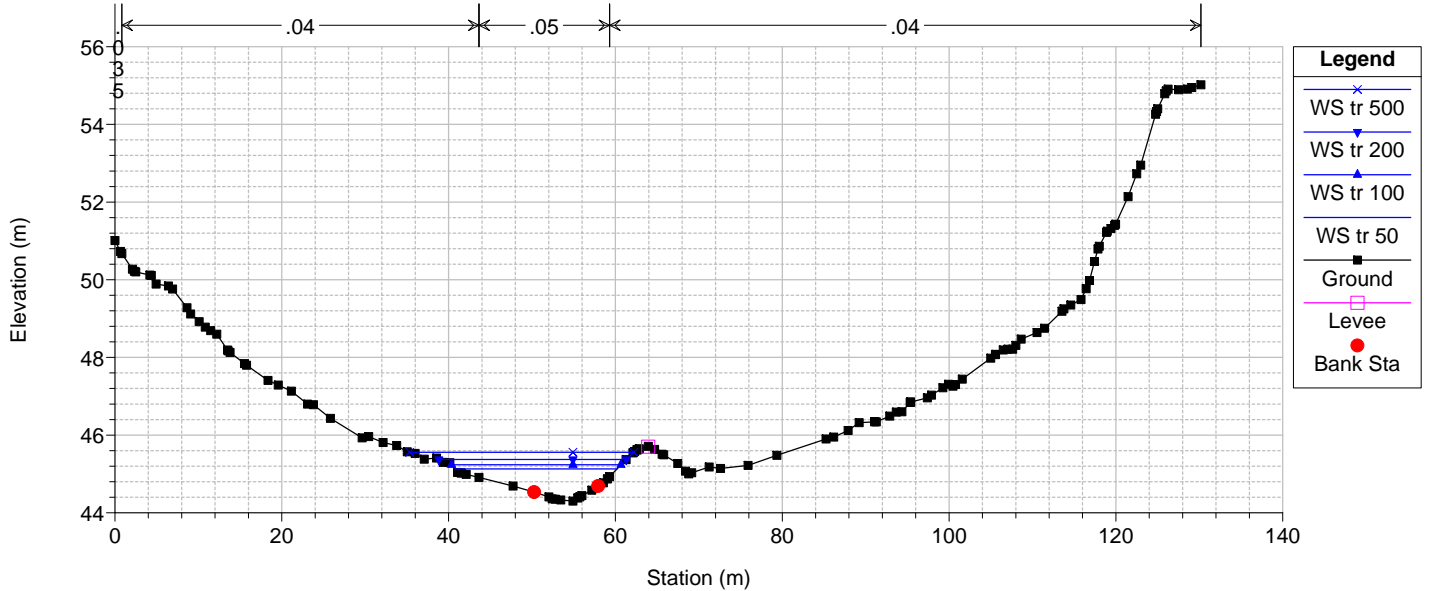
River = Rio Crabolu Reach = Asta 1 RS = 2100 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

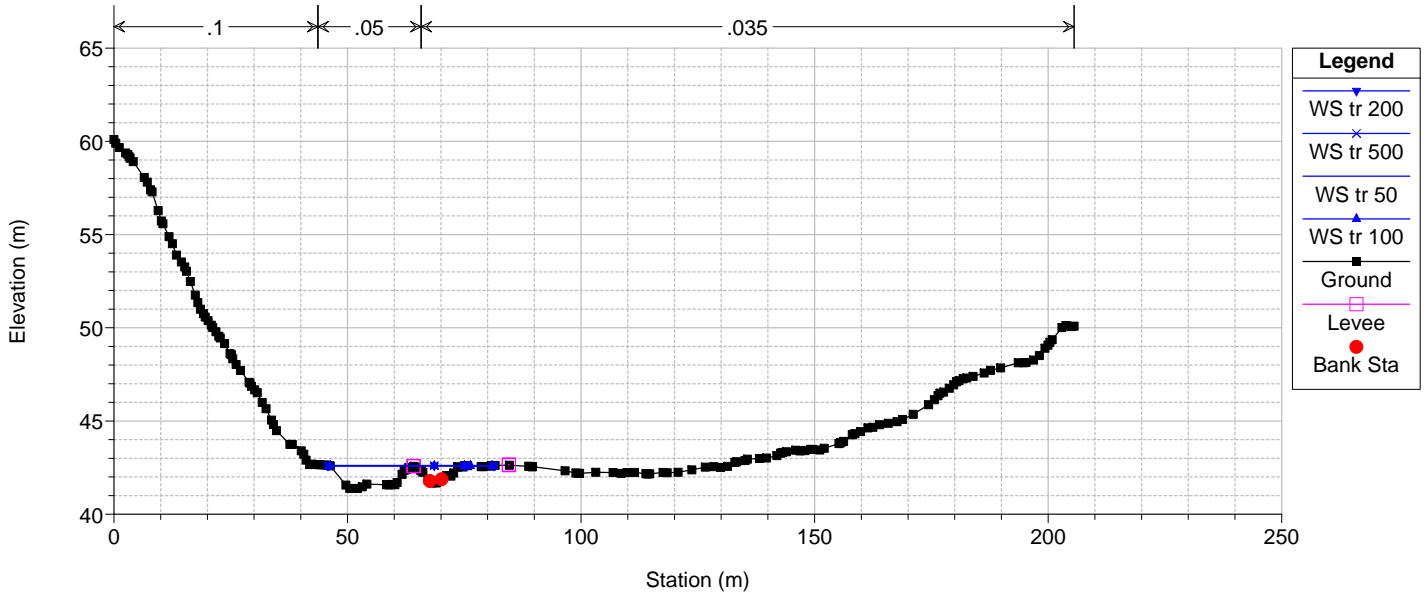
River = Rio Crabolu Reach = Asta 1 RS = 2073.411 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

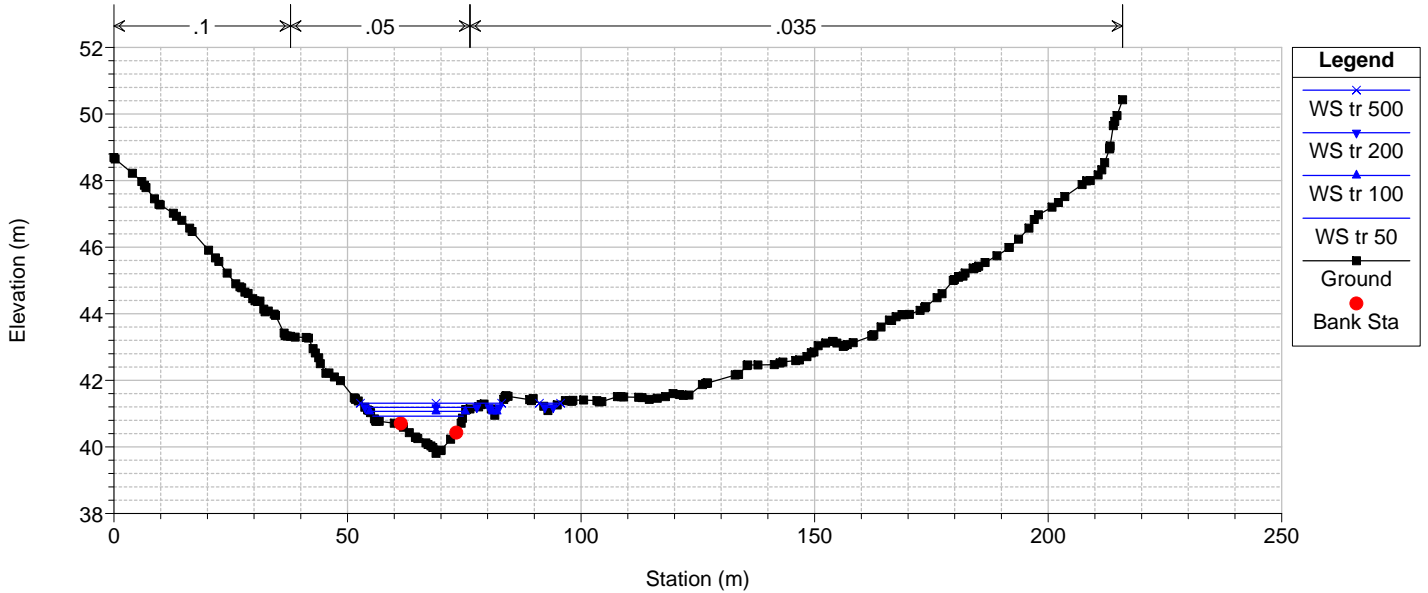
River = Rio Crabolu Reach = Asta 2 RS = 1932.672 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

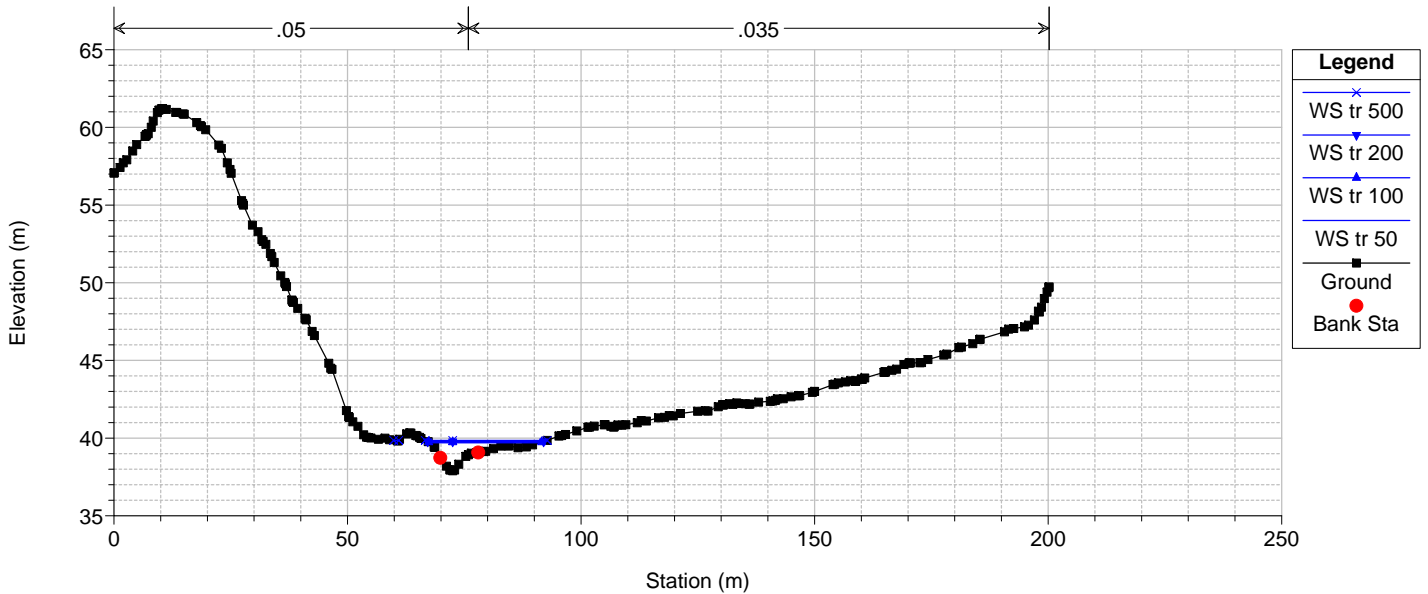
River = Rio Crabolu Reach = Asta 2 RS = 1896.41 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

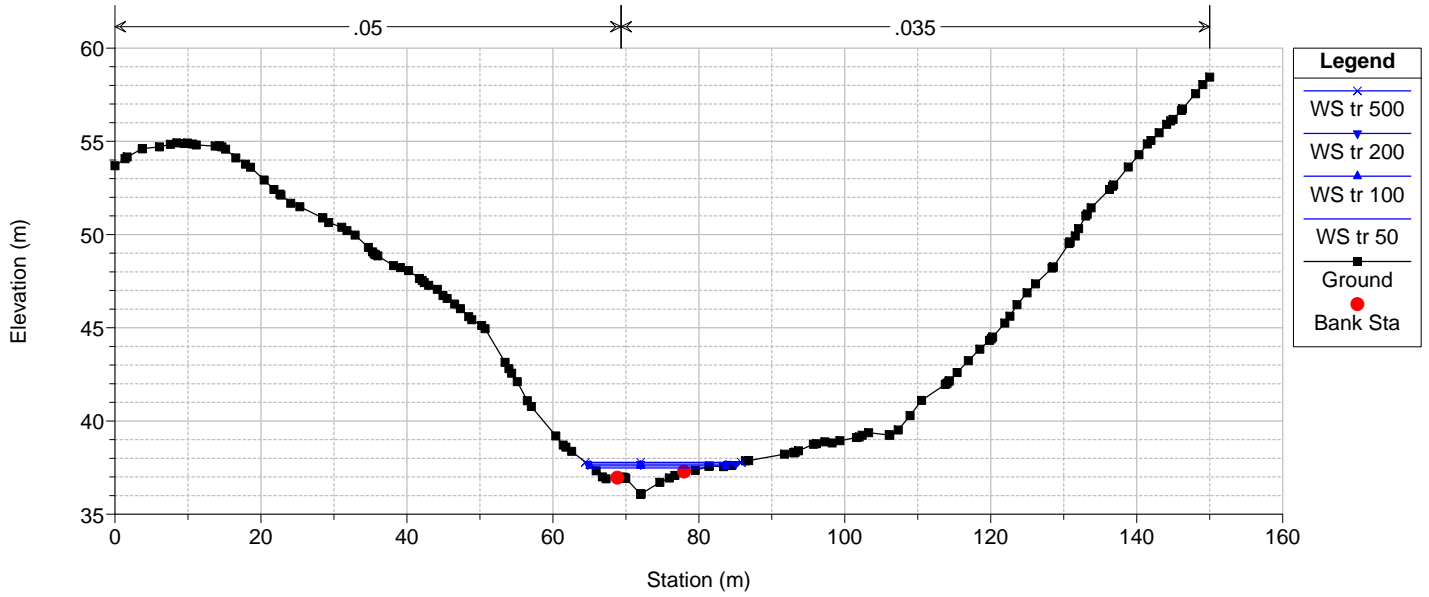
River = Rio Crabolu Reach = Asta 2 RS = 1850 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

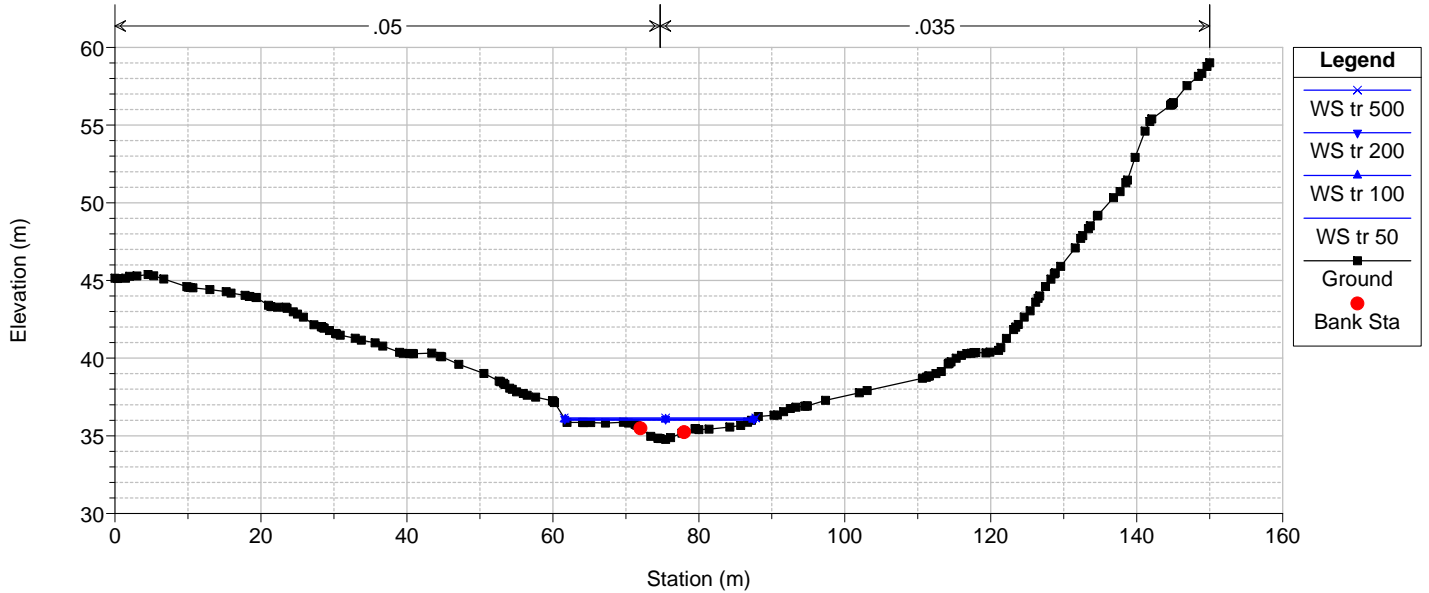
River = Rio Crabolu Reach = Asta 2 RS = 1800 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

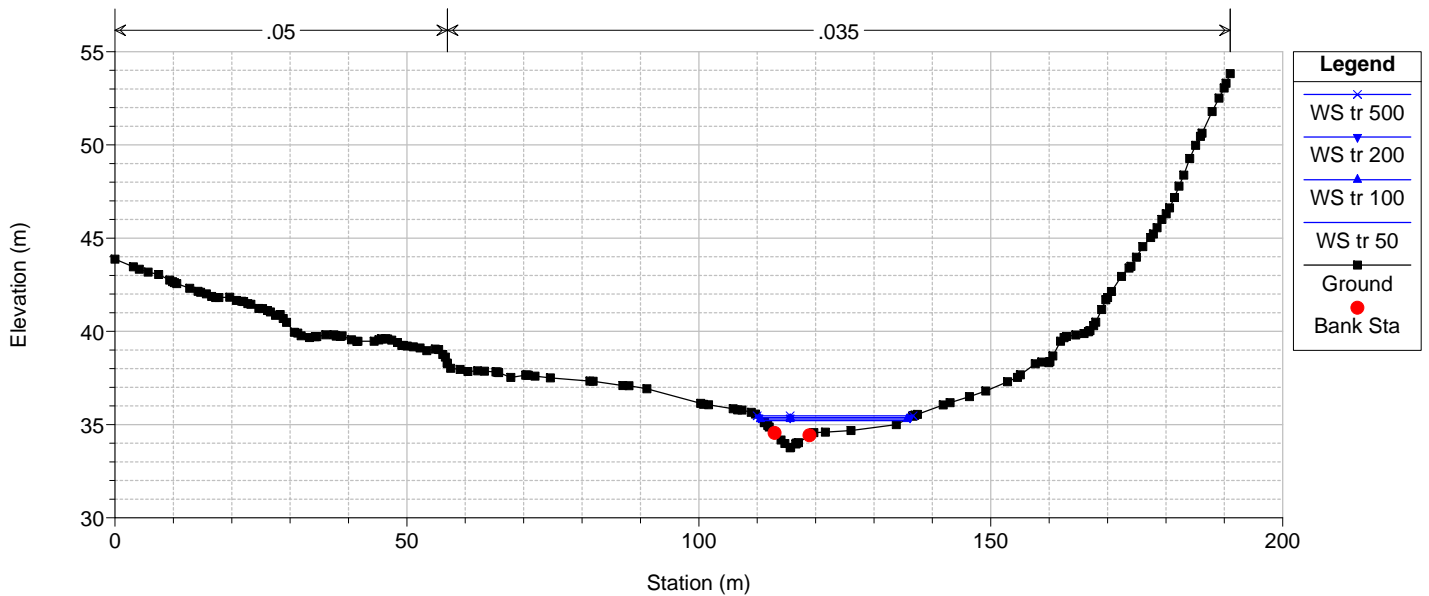
River = Rio Crabolu Reach = Asta 2 RS = 1750 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

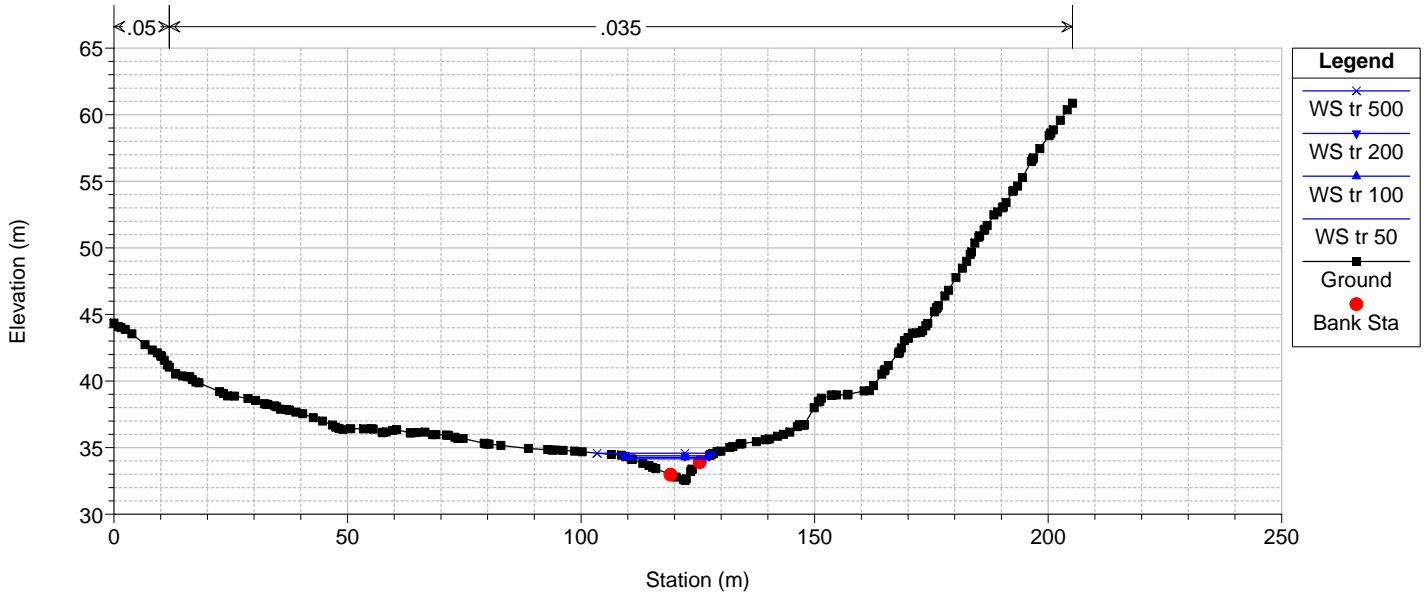
River = Rio Crabolu Reach = Asta 2 RS = 1702.468 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

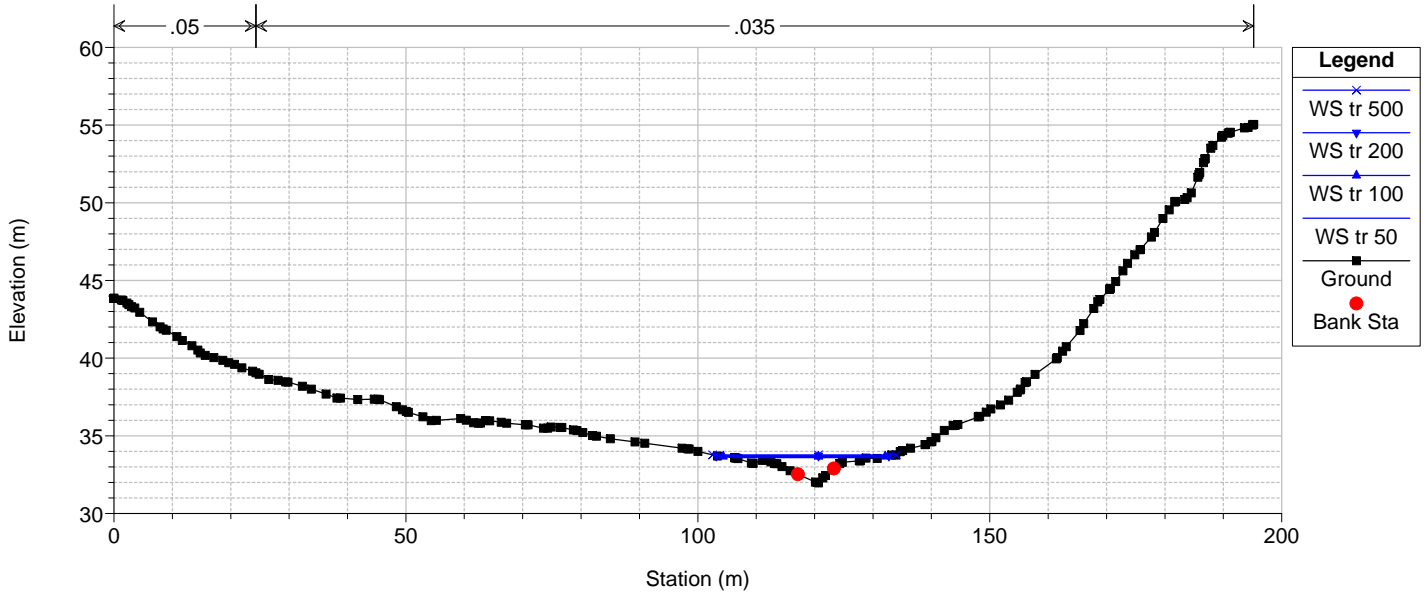
River = Rio Crabolu Reach = Asta 2 RS = 1642.113 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

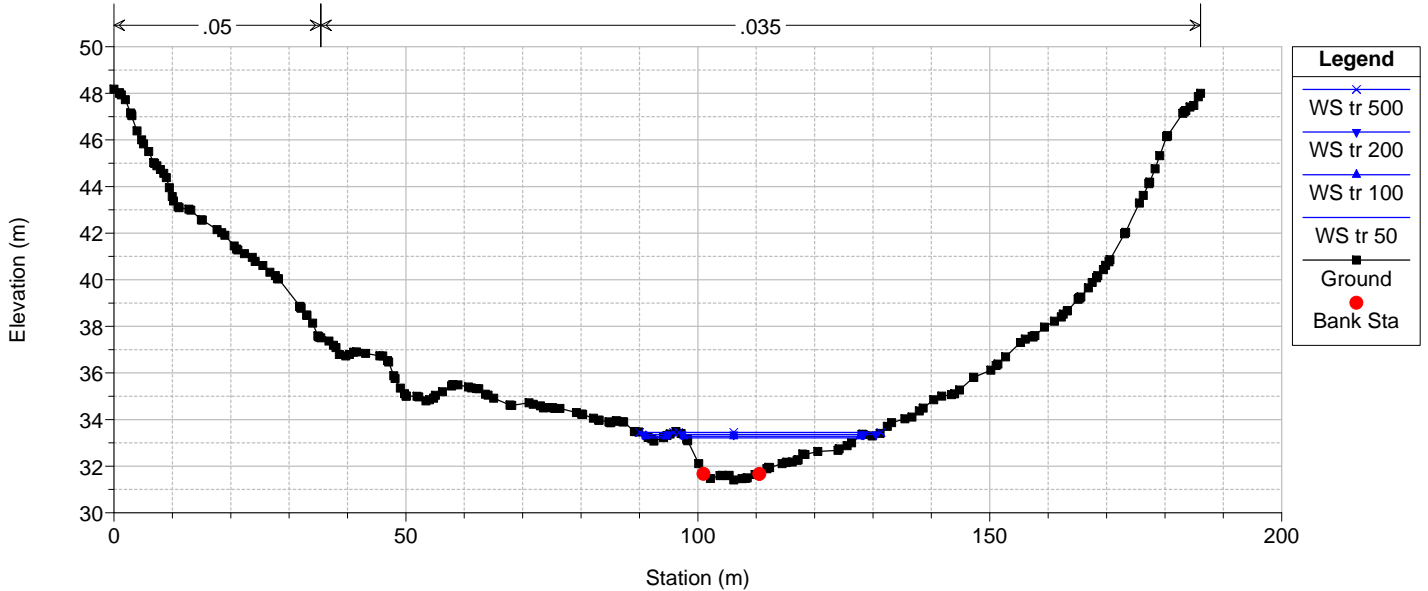
River = Rio Crabolu Reach = Asta 2 RS = 1602.575 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

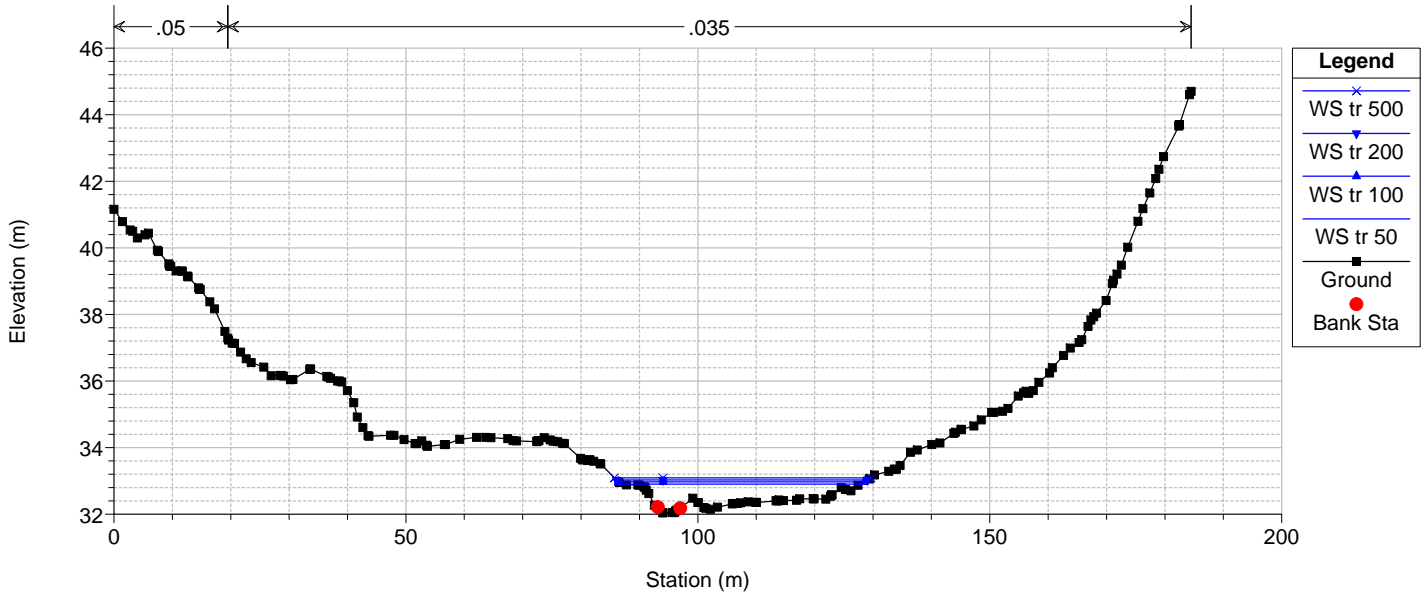
River = Rio Crabolu Reach = Asta 2 RS = 1544.648 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

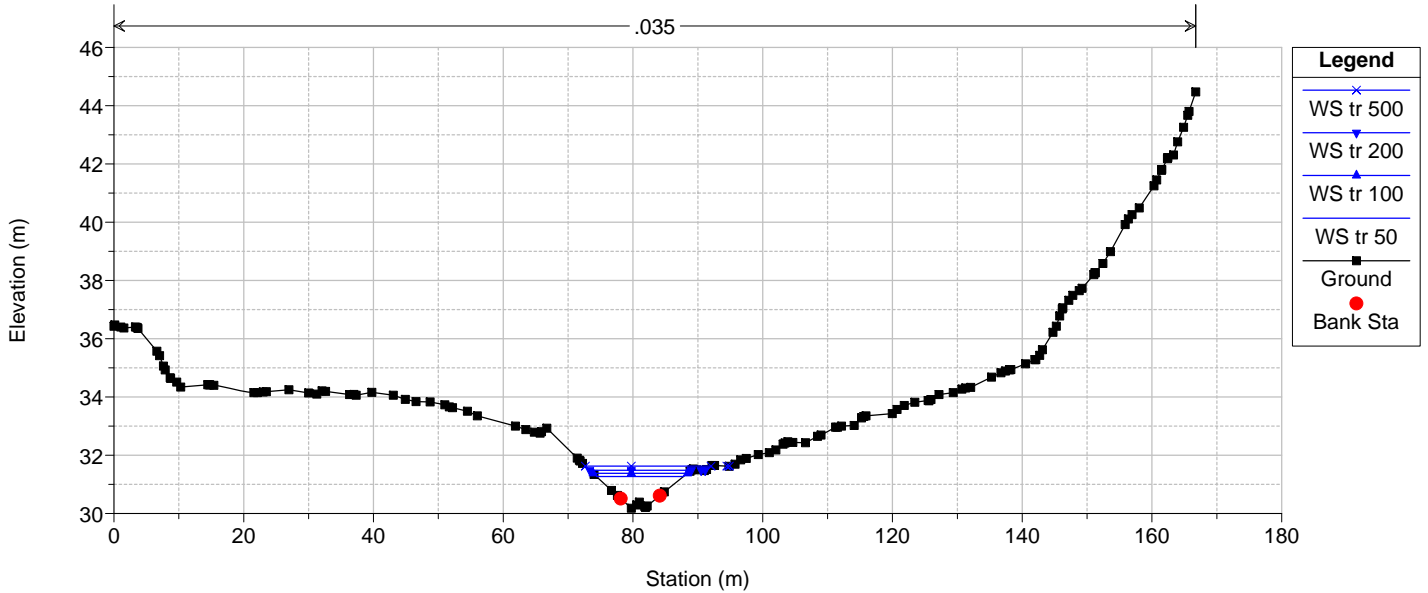
River = Rio Crabolu Reach = Asta 2 RS = 1516.039 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

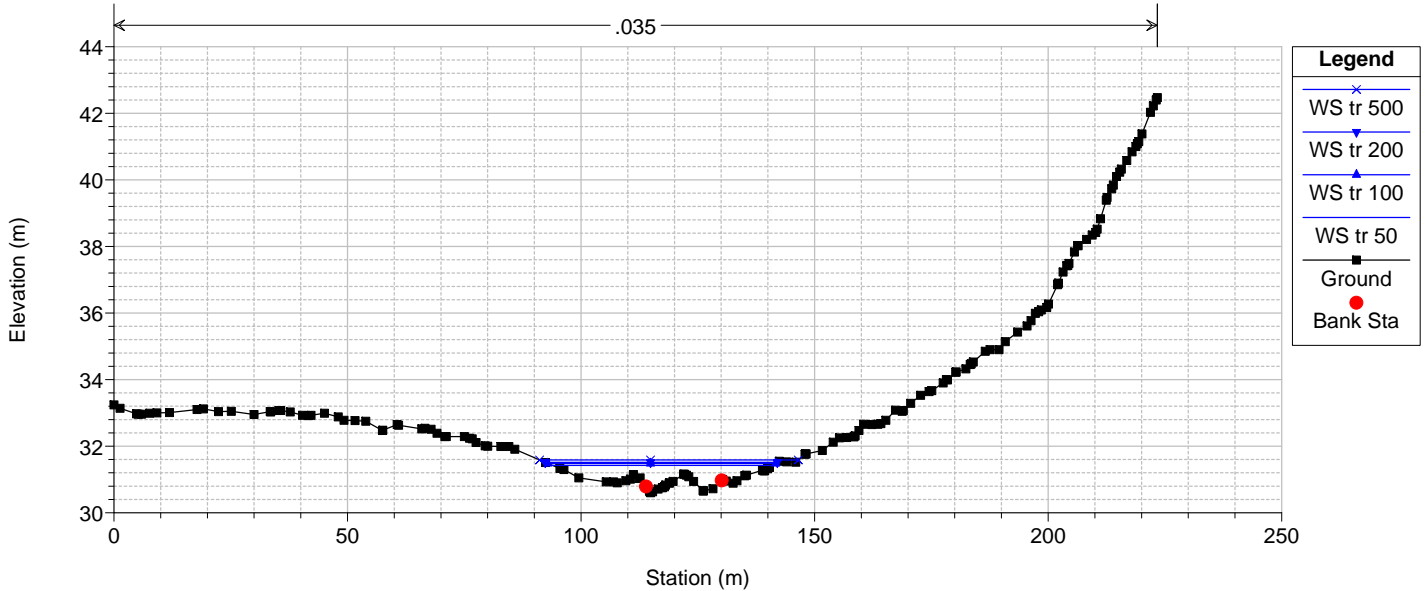
River = Rio Crabolu Reach = Asta 2 RS = 1499.38 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

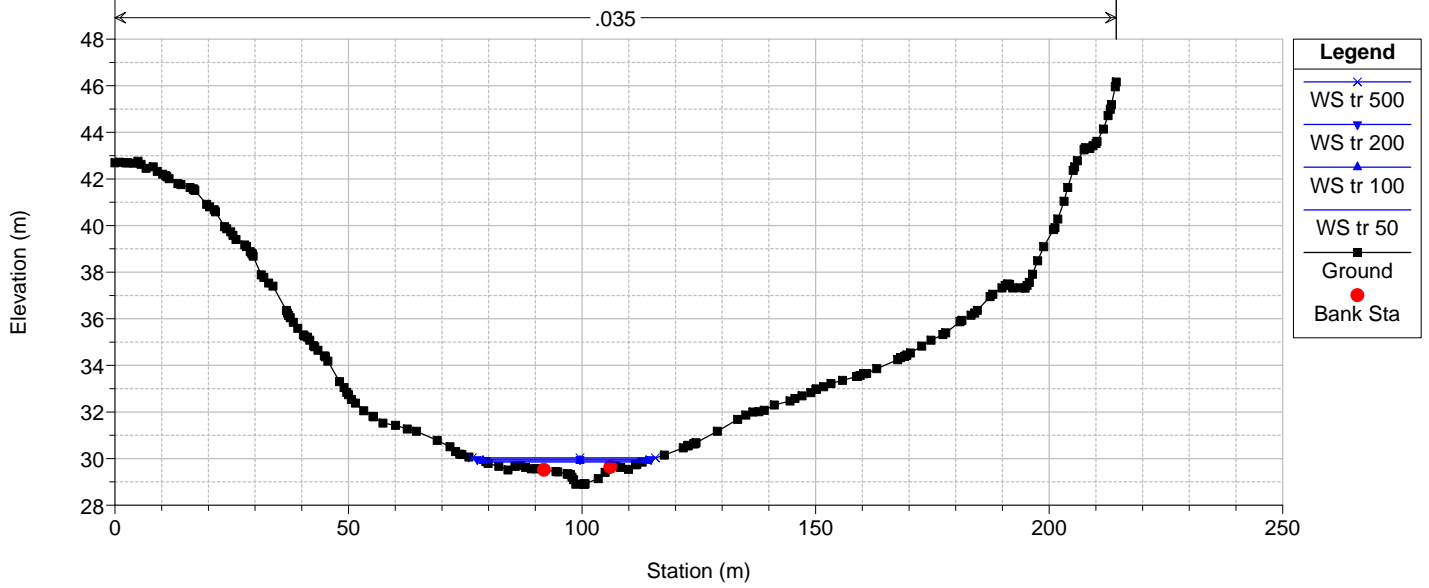
River = Rio Crabolu Reach = Asta 2 RS = 1454.534 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

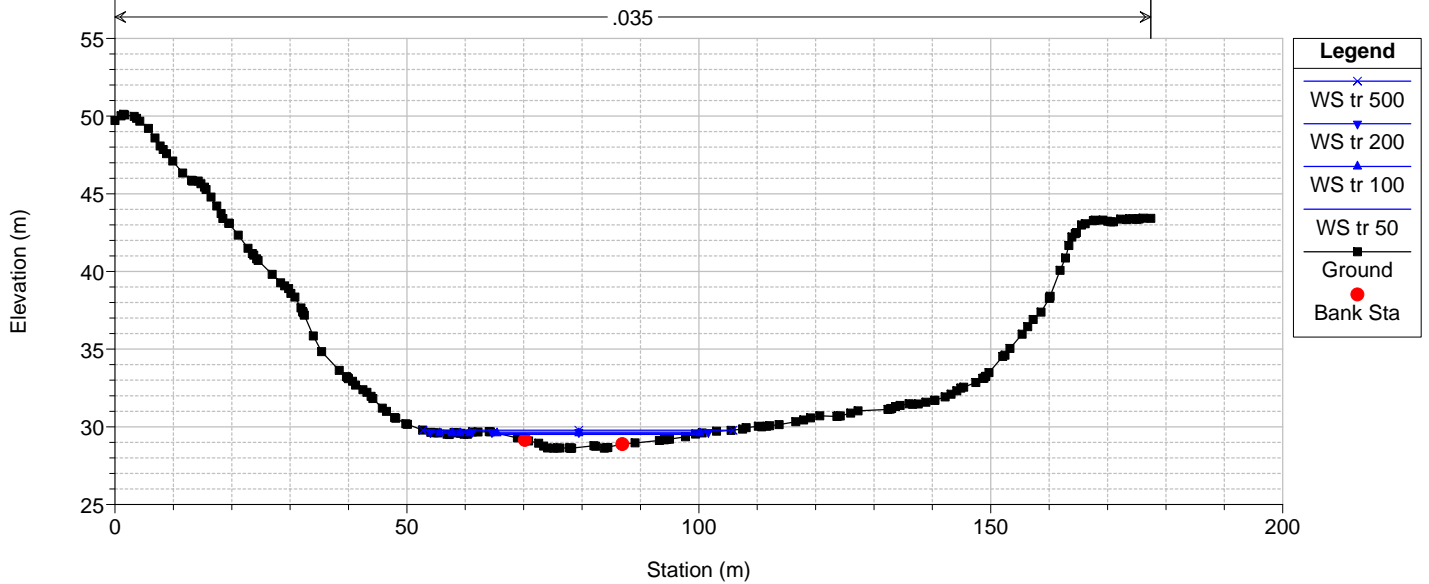
River = Rio Crabolu Reach = Asta 2 RS = 1395.858 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

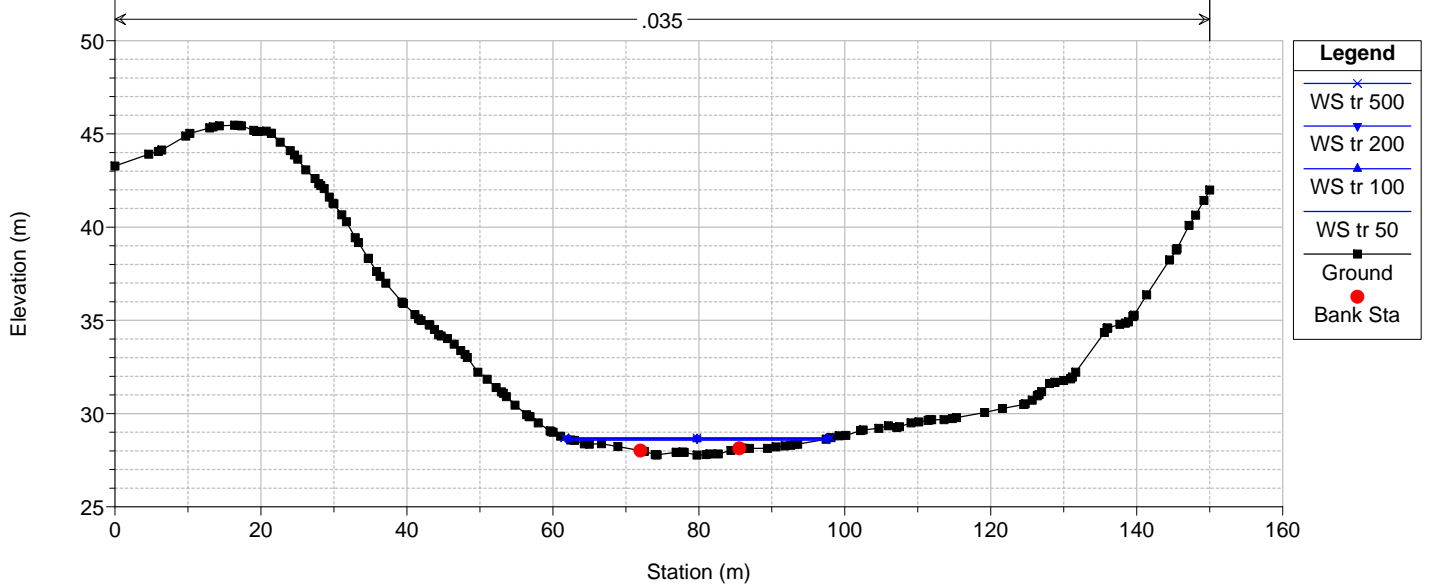
River = Rio Crabolu Reach = Asta 2 RS = 1355.892 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

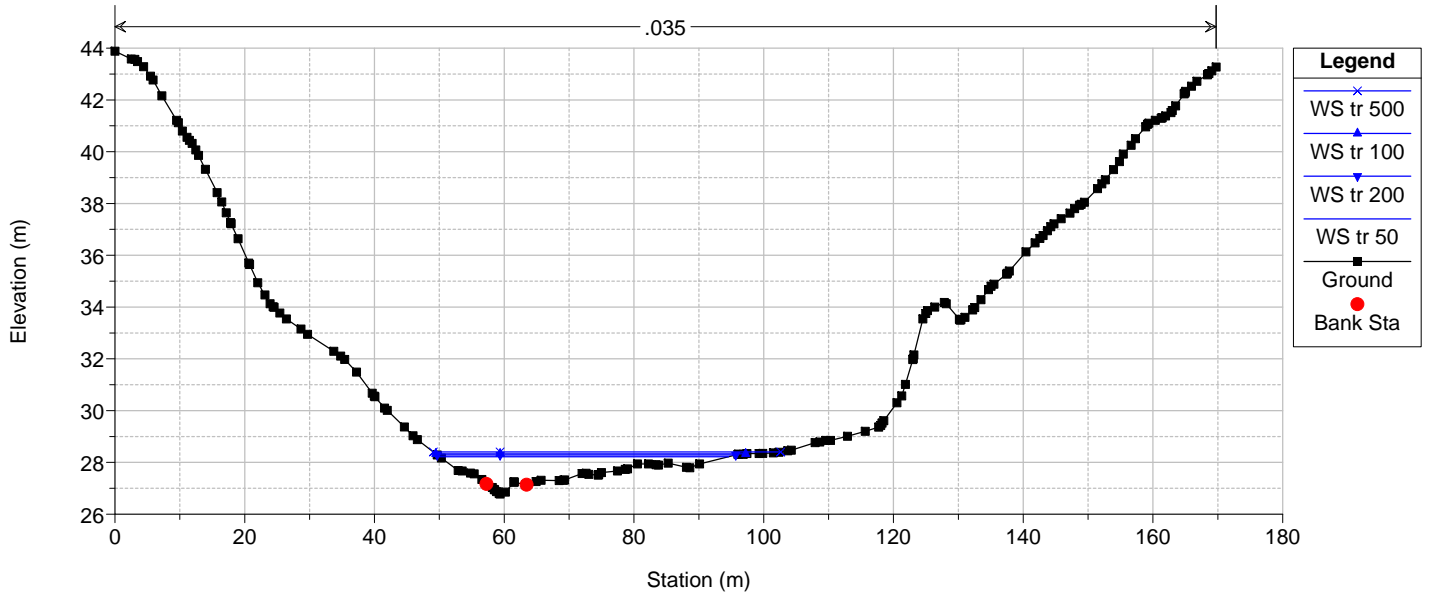
River = Rio Crabolu Reach = Asta 2 RS = 1300 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

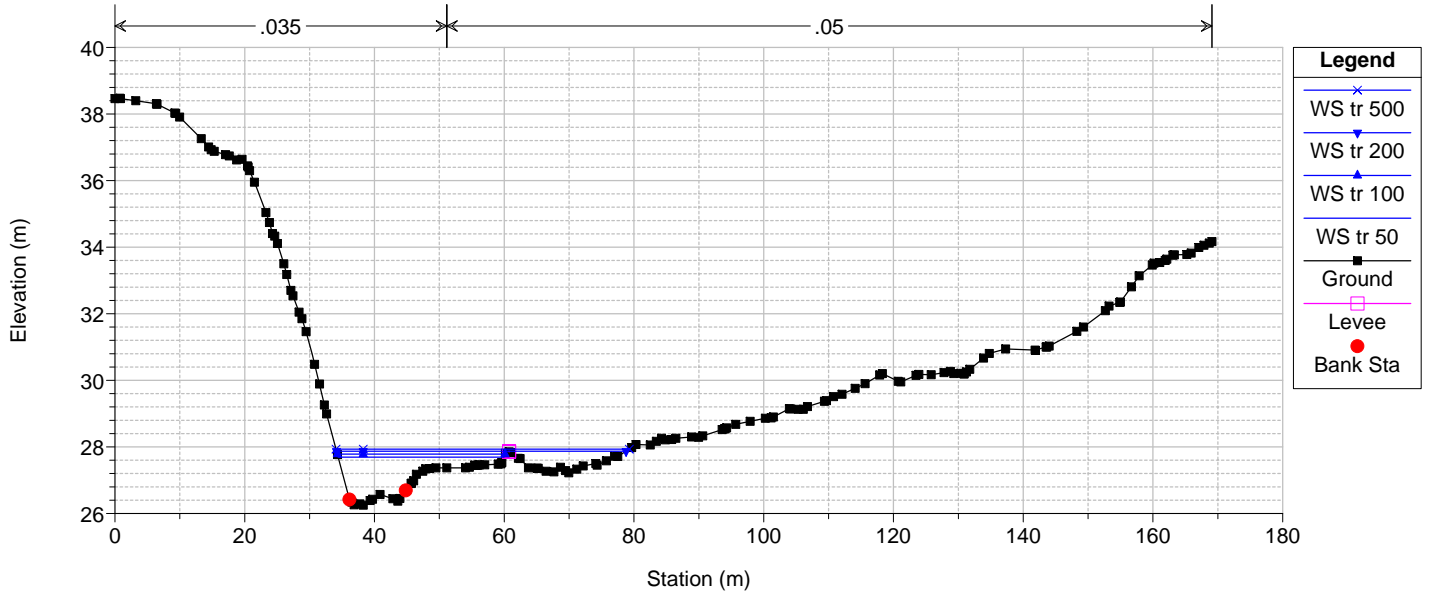
River = Rio Crabolu Reach = Asta 2 RS = 1255.209 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

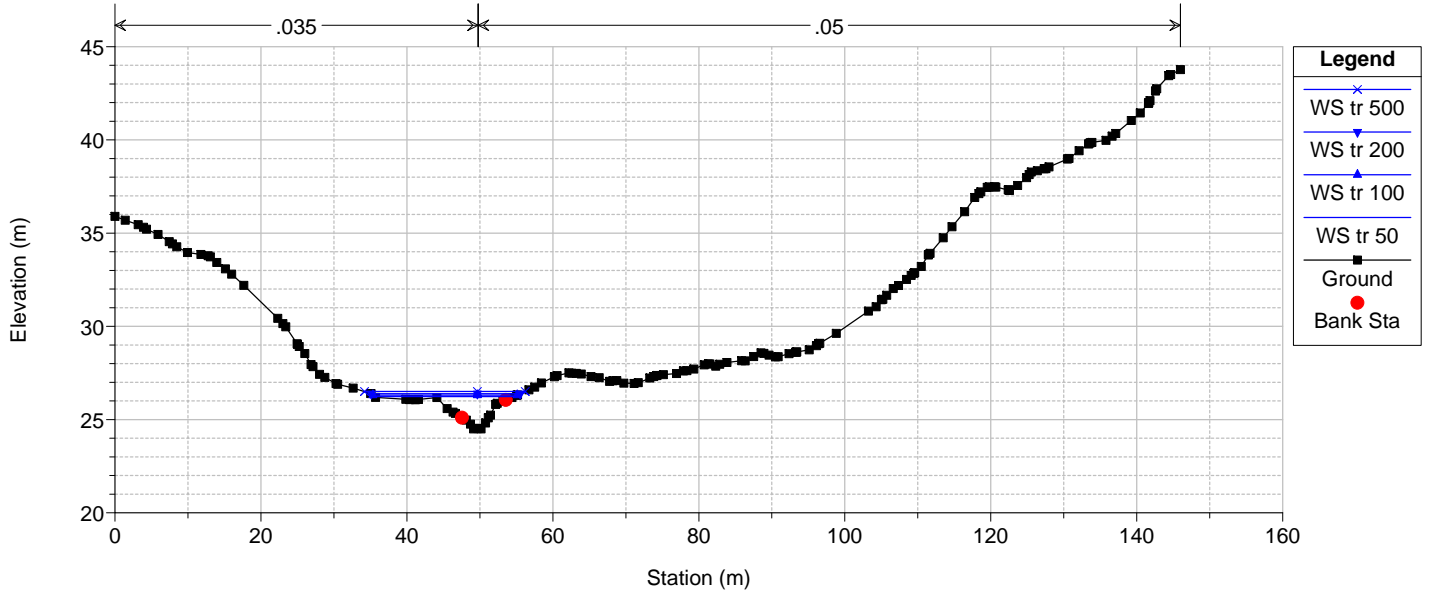
River = Rio Crabolu Reach = Asta 2 RS = 1201.843 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

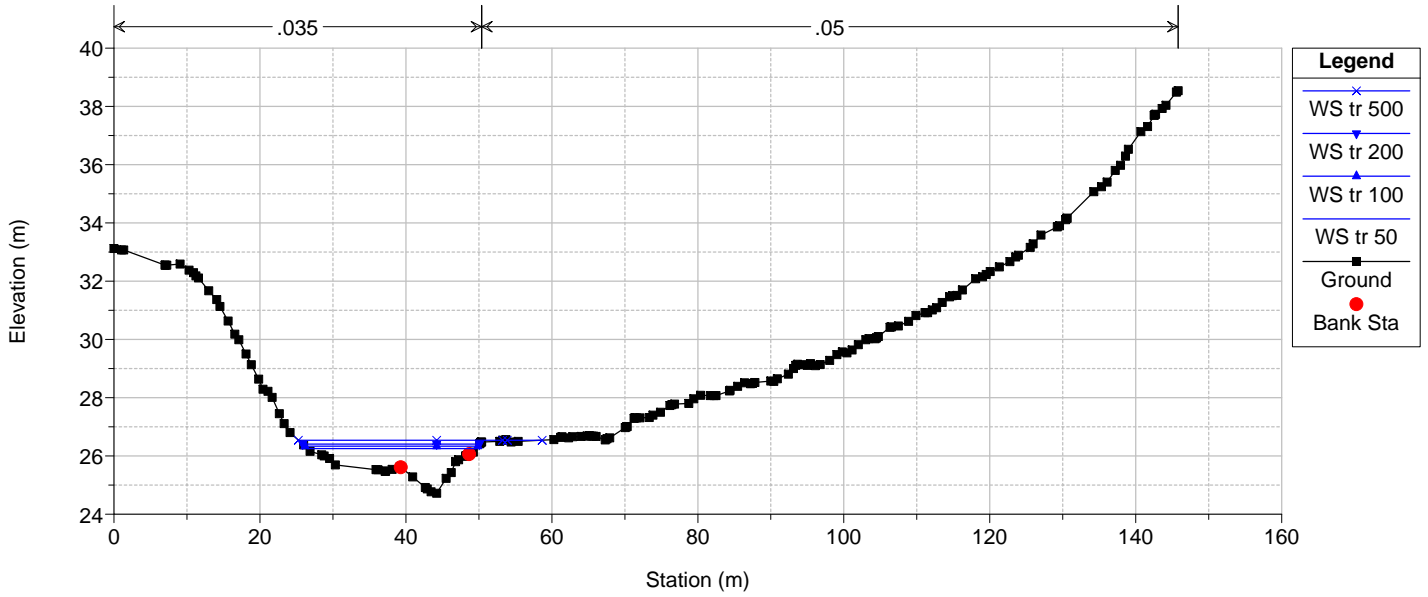
River = Rio Crabolu Reach = Asta 2 RS = 1147.617 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

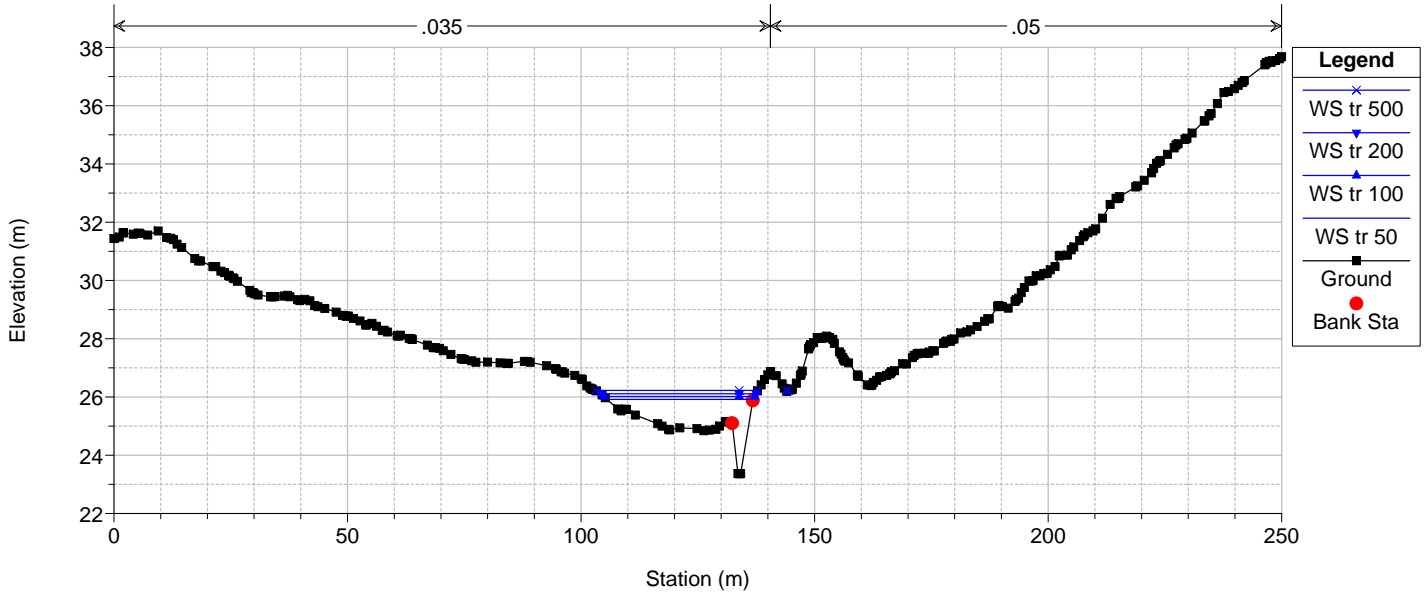
River = Rio Crabolu Reach = Asta 2 RS = 1123.194 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

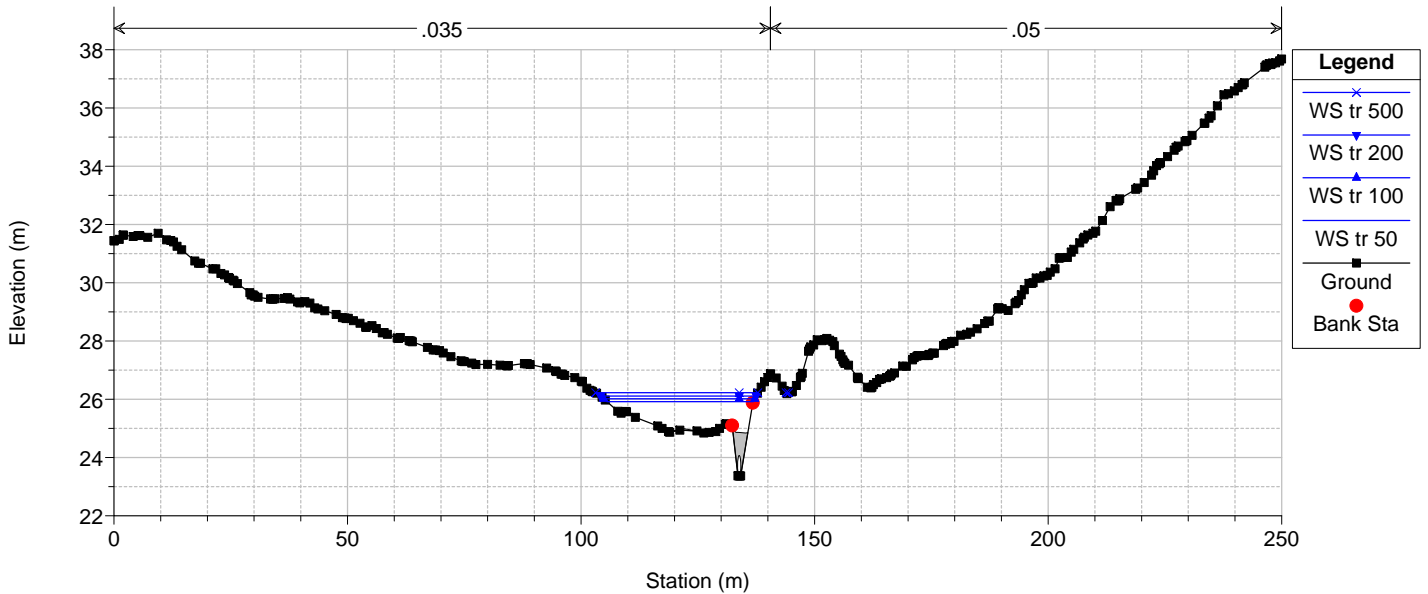
River = Rio Crabolu Reach = Asta 2 RS = 1102.01 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

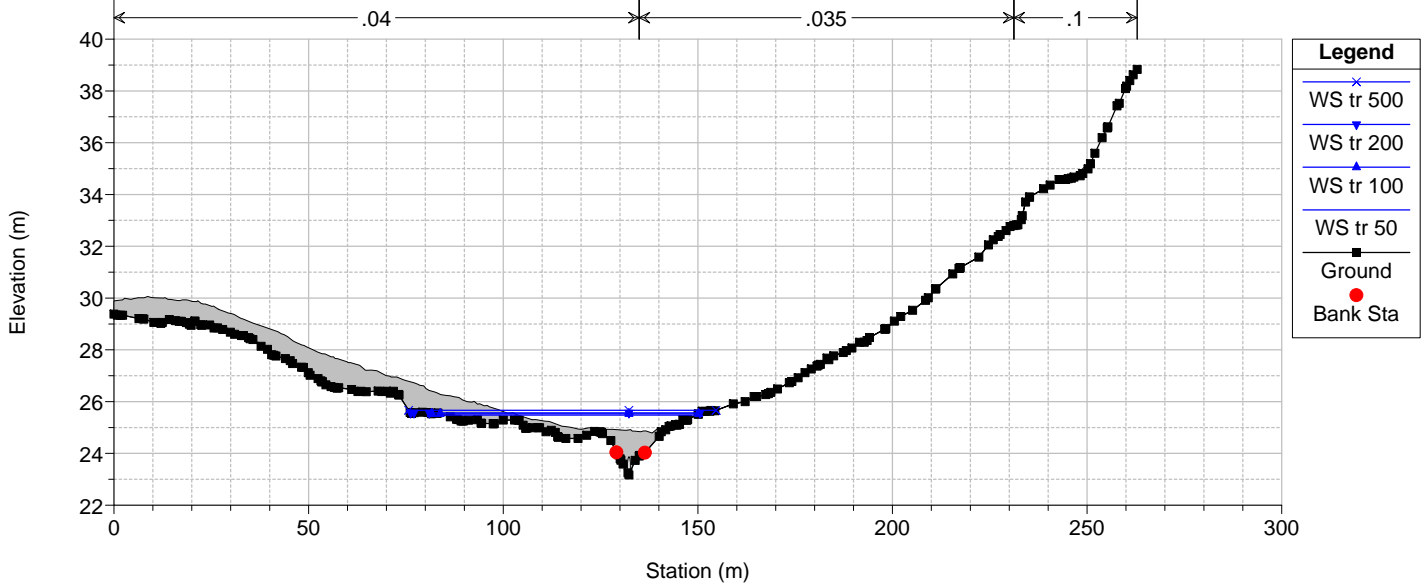
River = Rio Crabolu Reach = Asta 2 RS = 1090.013 Culv COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

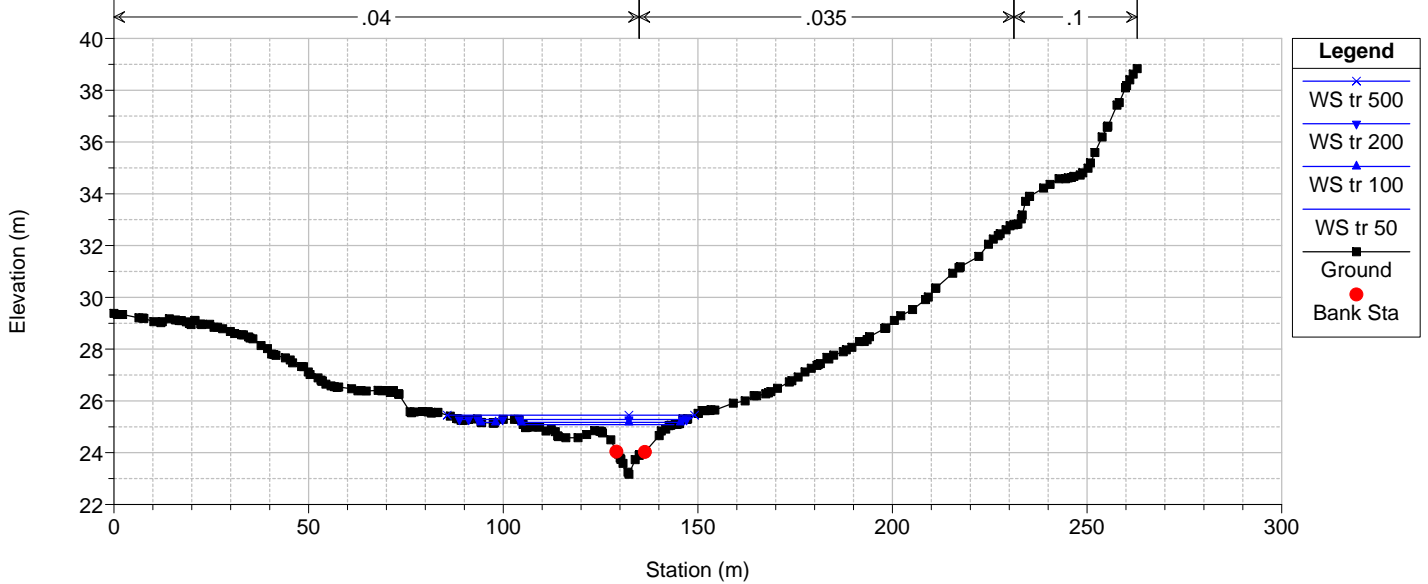
River = Rio Crabolu Reach = Asta 2 RS = 1090.013 Culv COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

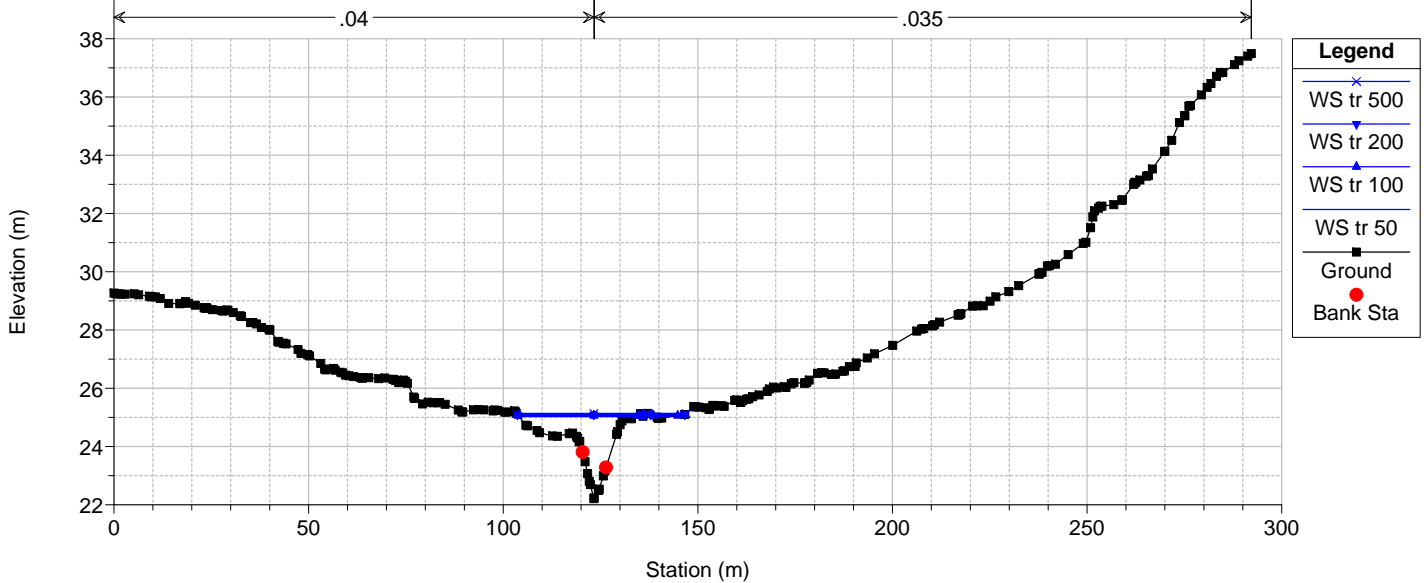
River = Rio Crabolu Reach = Asta 2 RS = 1078.488 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

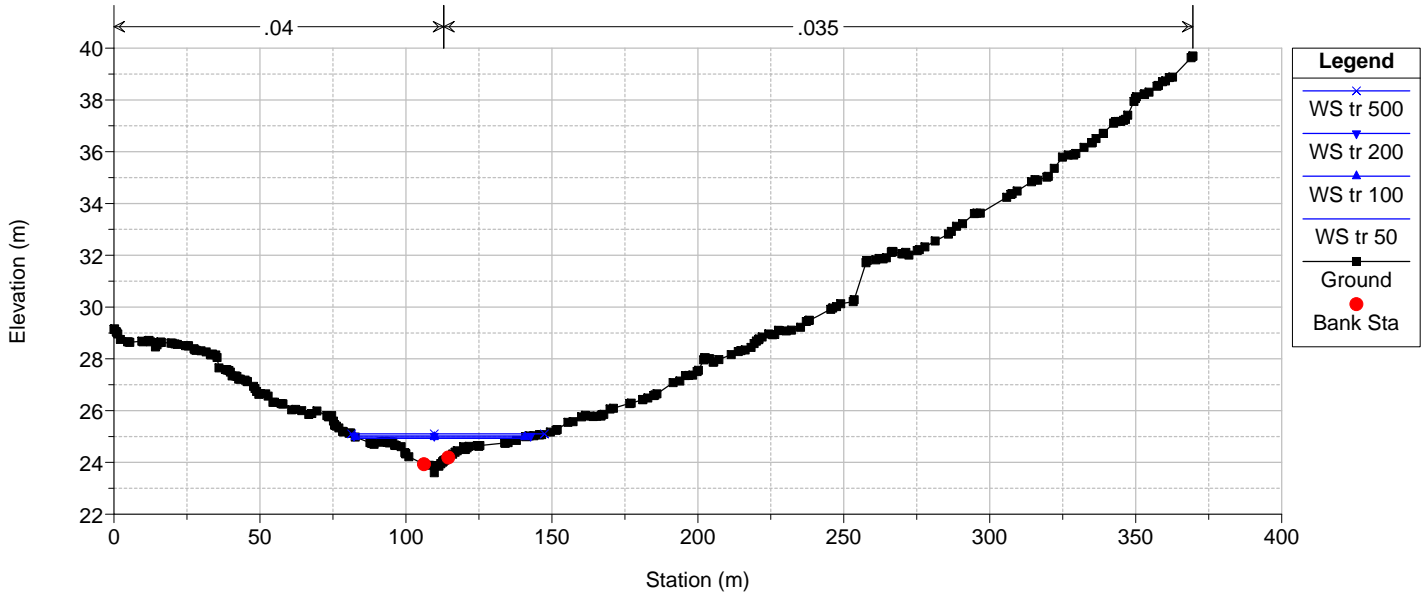
River = Rio Crabolu Reach = Asta 2 RS = 1049.803 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

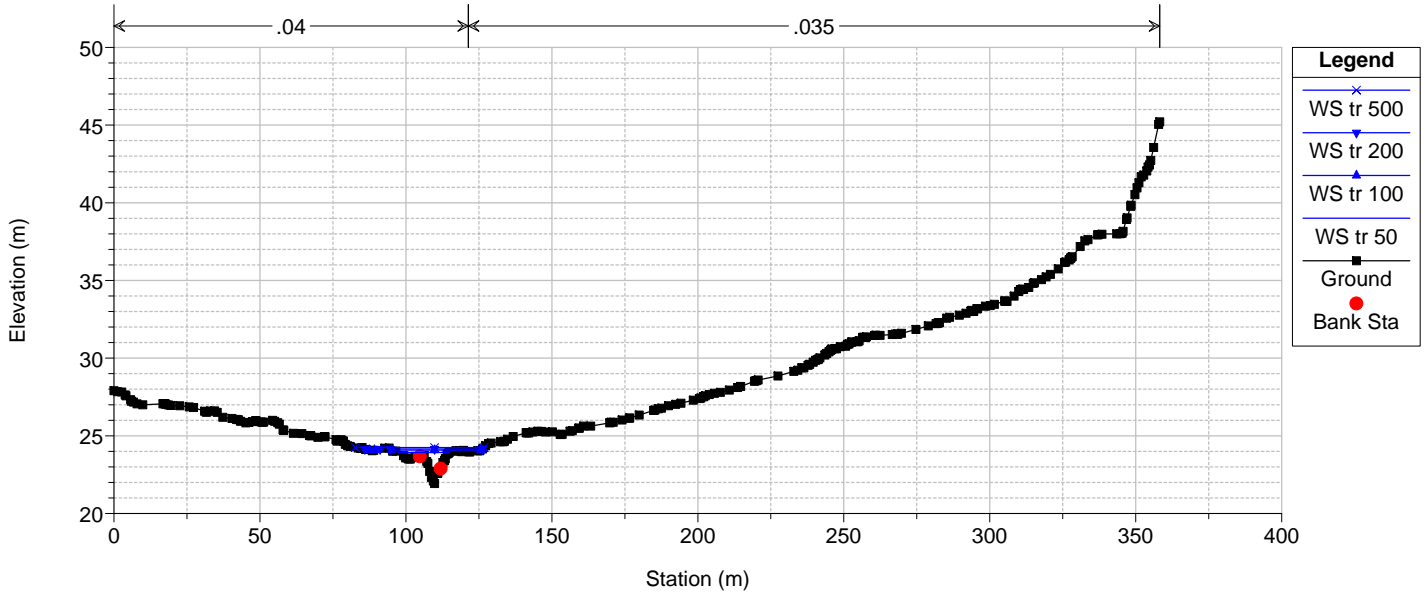
River = Rio Crabolu Reach = Asta 2 RS = 1031.857 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

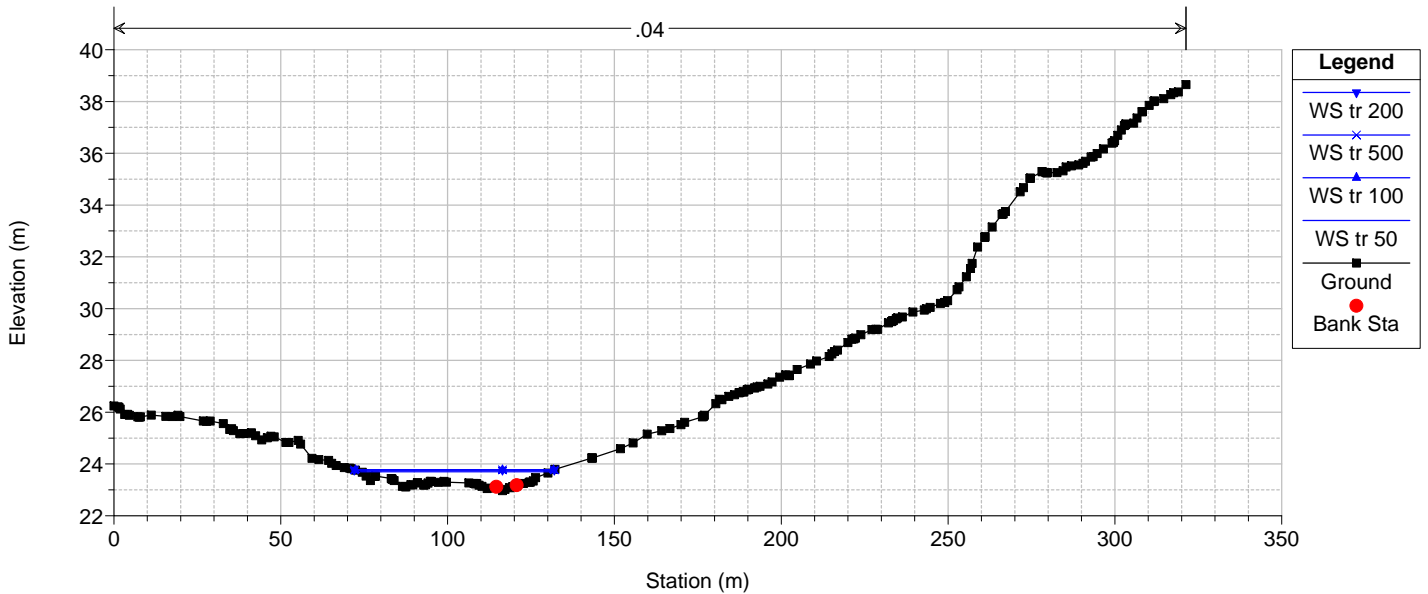
River = Rio Crabolu Reach = Asta 2 RS = 1012.65 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

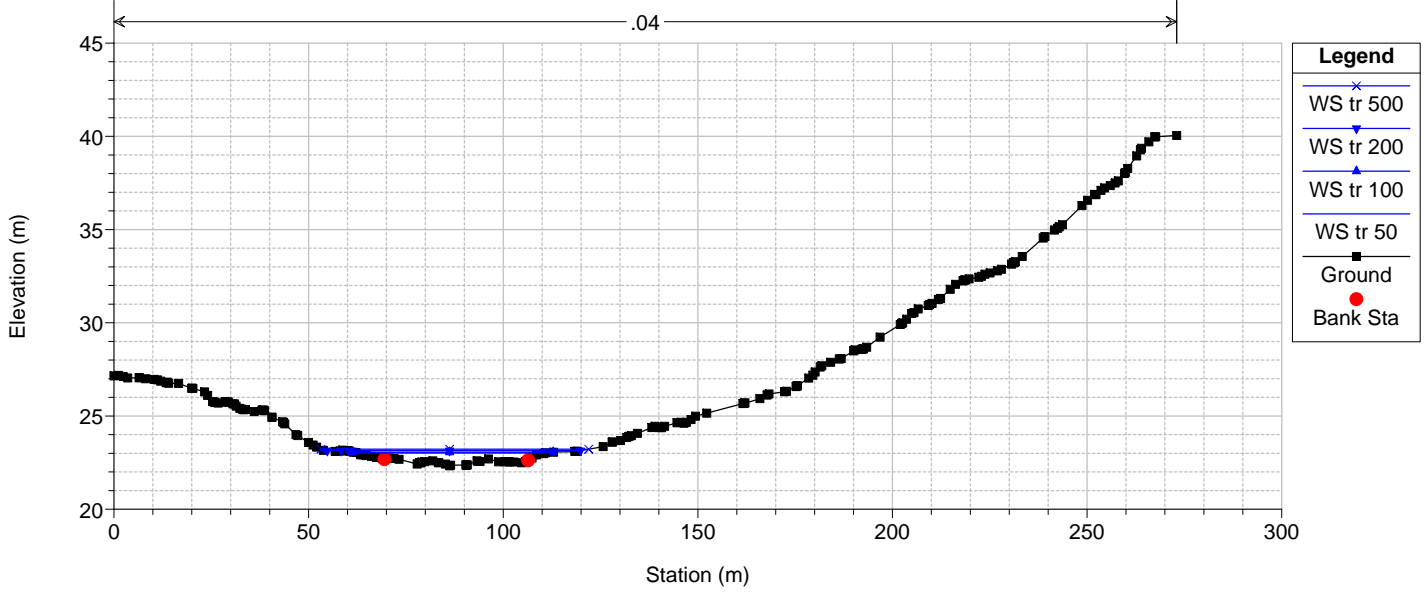
River = Rio Crabolu Reach = Asta 2 RS = 979.4611 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

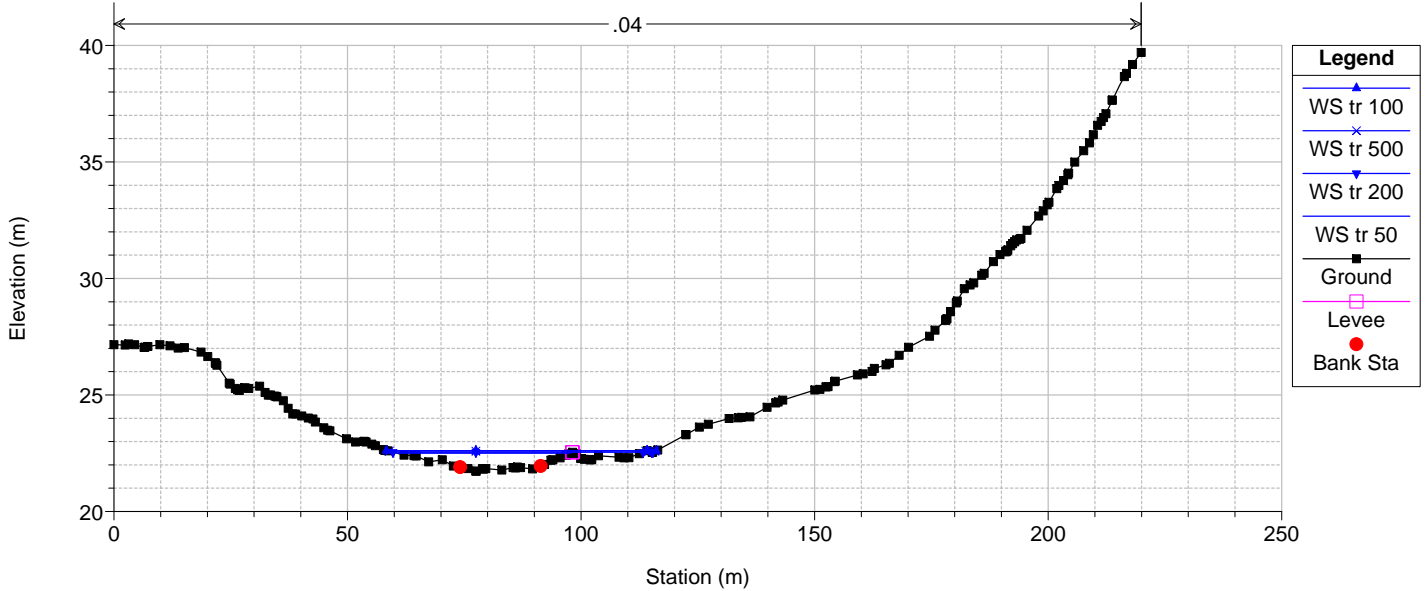
River = Rio Crabolu Reach = Asta 2 RS = 939.4351 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

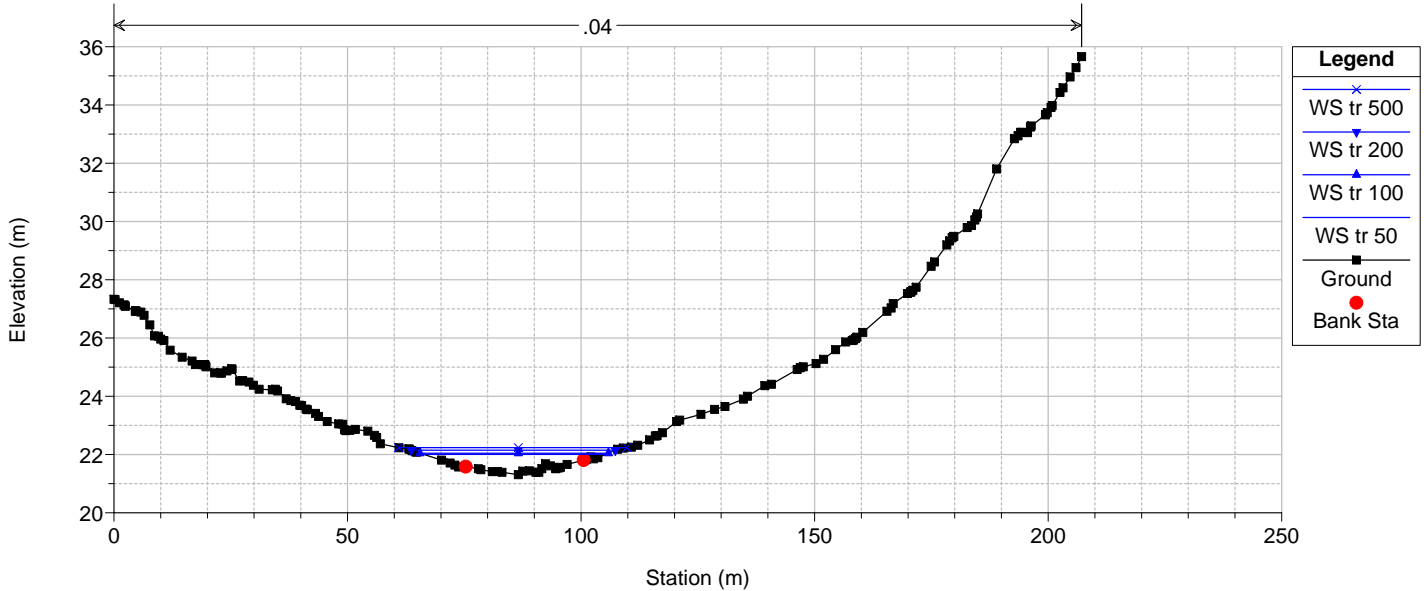
River = Rio Crabolu Reach = Asta 2 RS = 918.9291 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

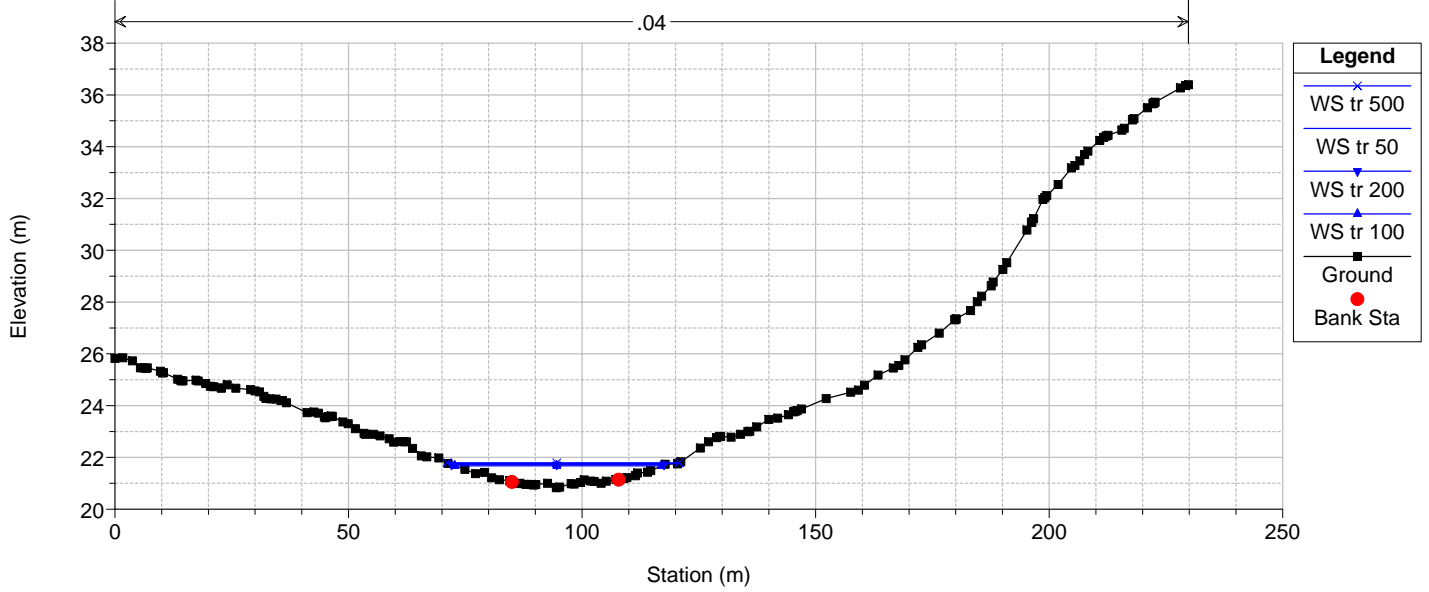
River = Rio Crabolu Reach = Asta 2 RS = 901.2863 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

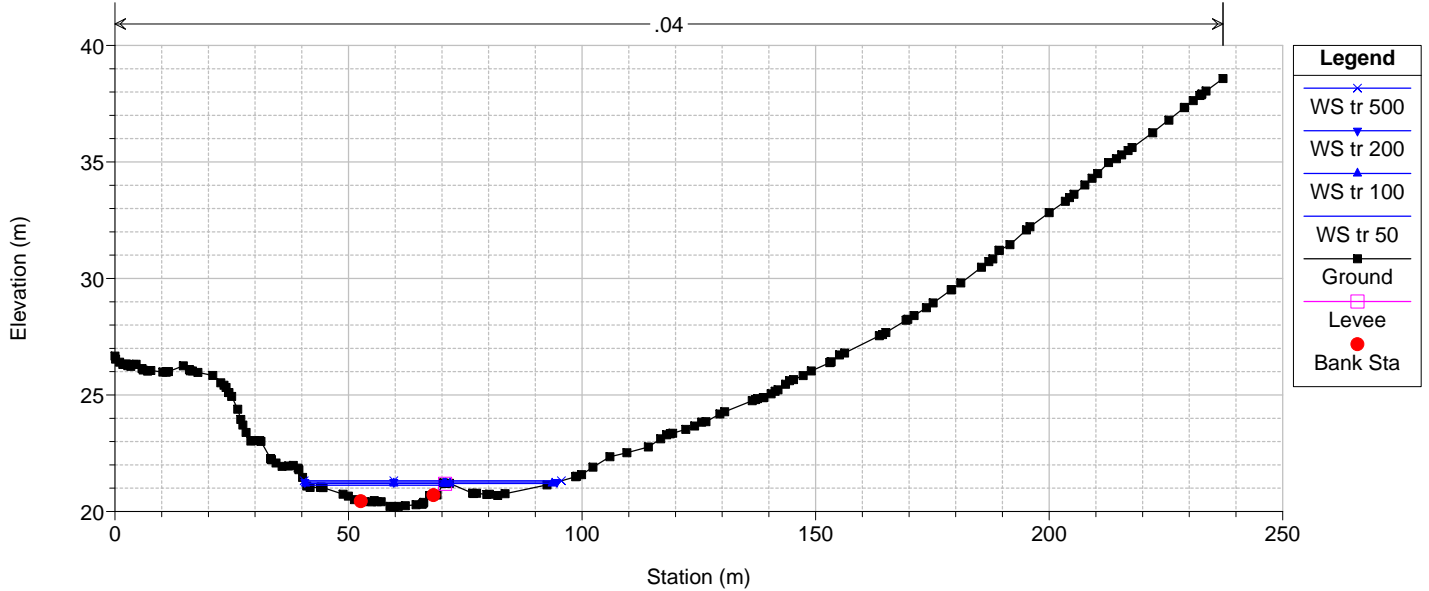
River = Rio Crabolu Reach = Asta 2 RS = 870.4627 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

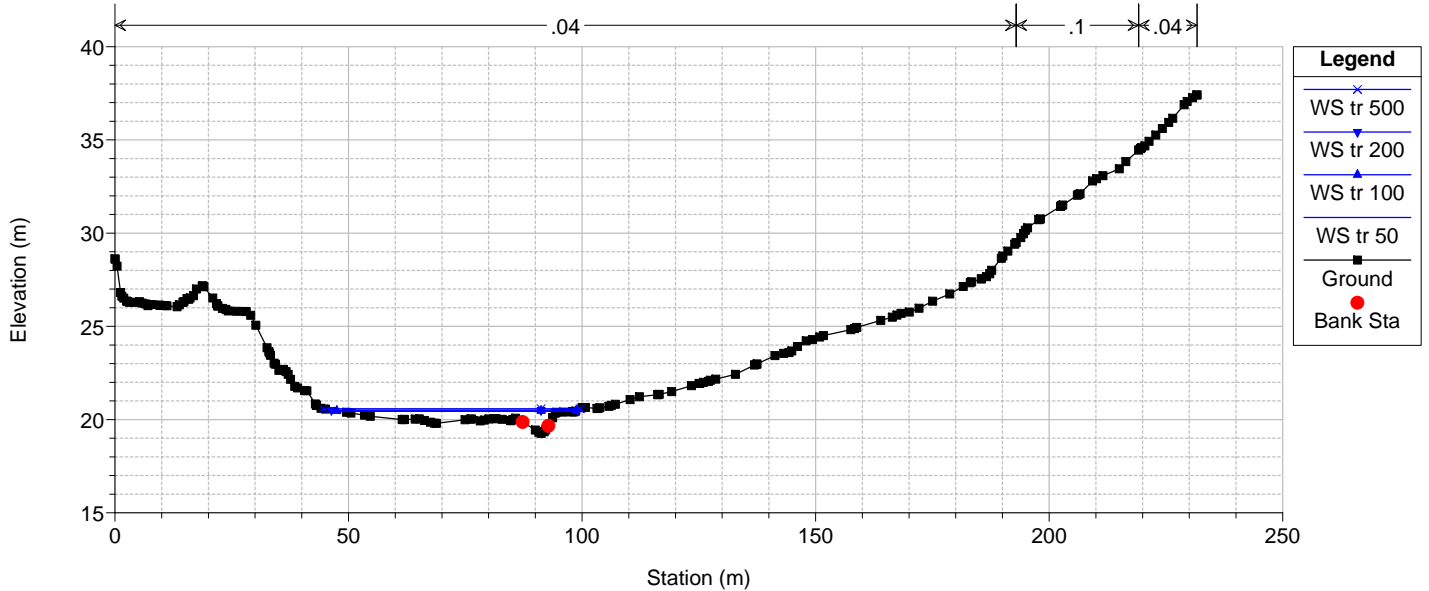
River = Rio Crabolu Reach = Asta 2 RS = 833.6752 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

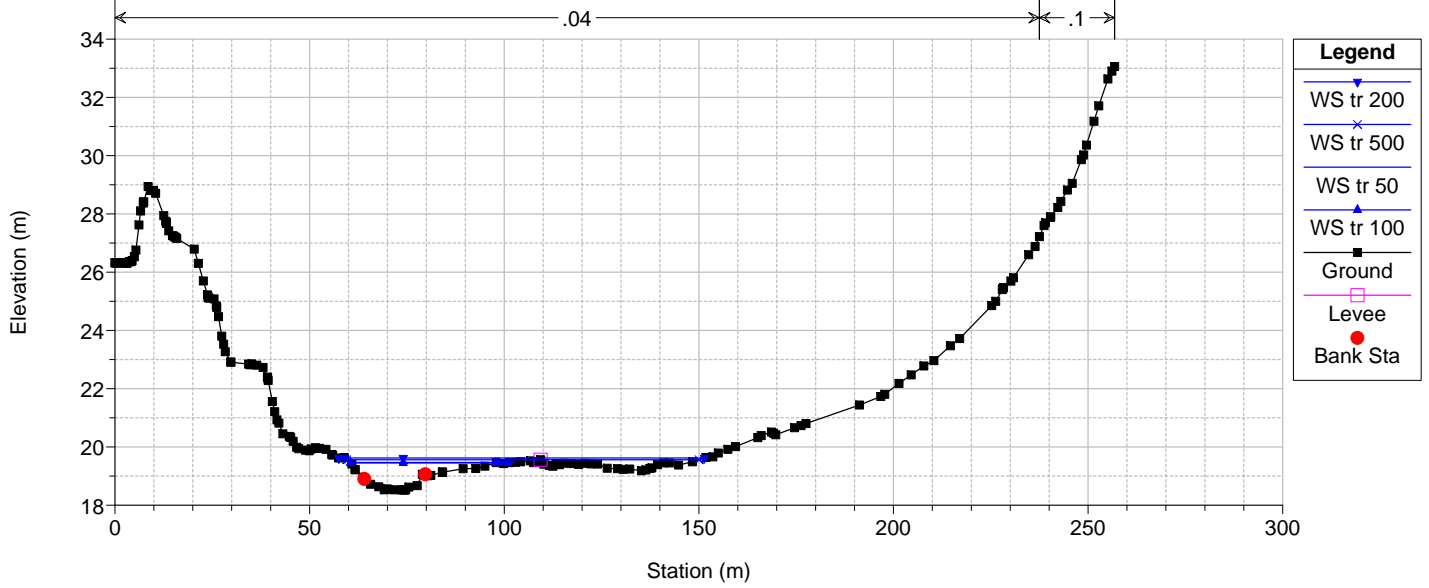
River = Rio Crabolu Reach = Asta 2 RS = 781.4929 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

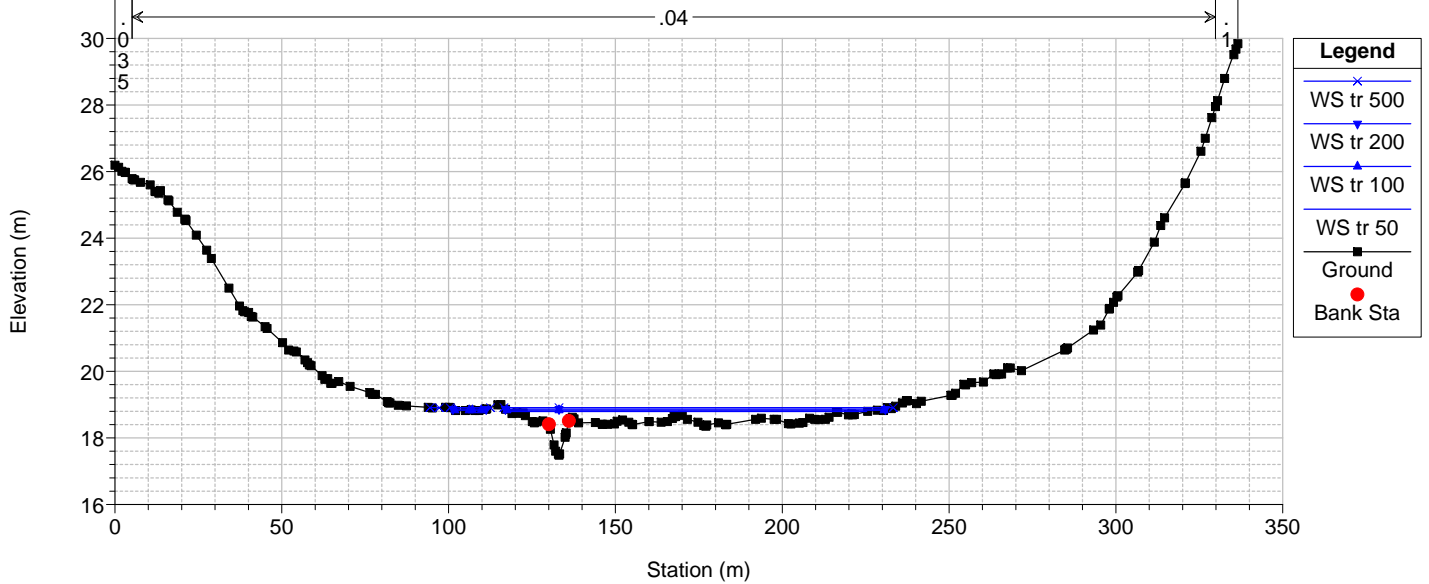
River = Rio Crabolu Reach = Asta 2 RS = 722.1672 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

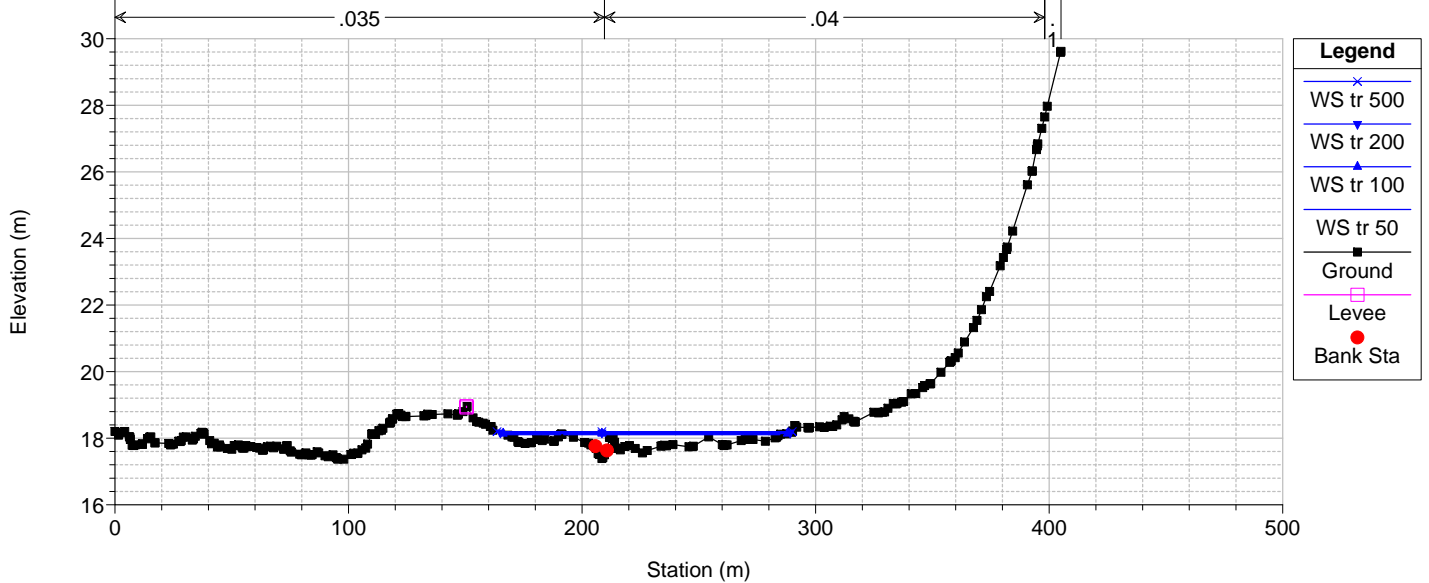
River = Rio Crabolu Reach = Asta 2 RS = 653.4905 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

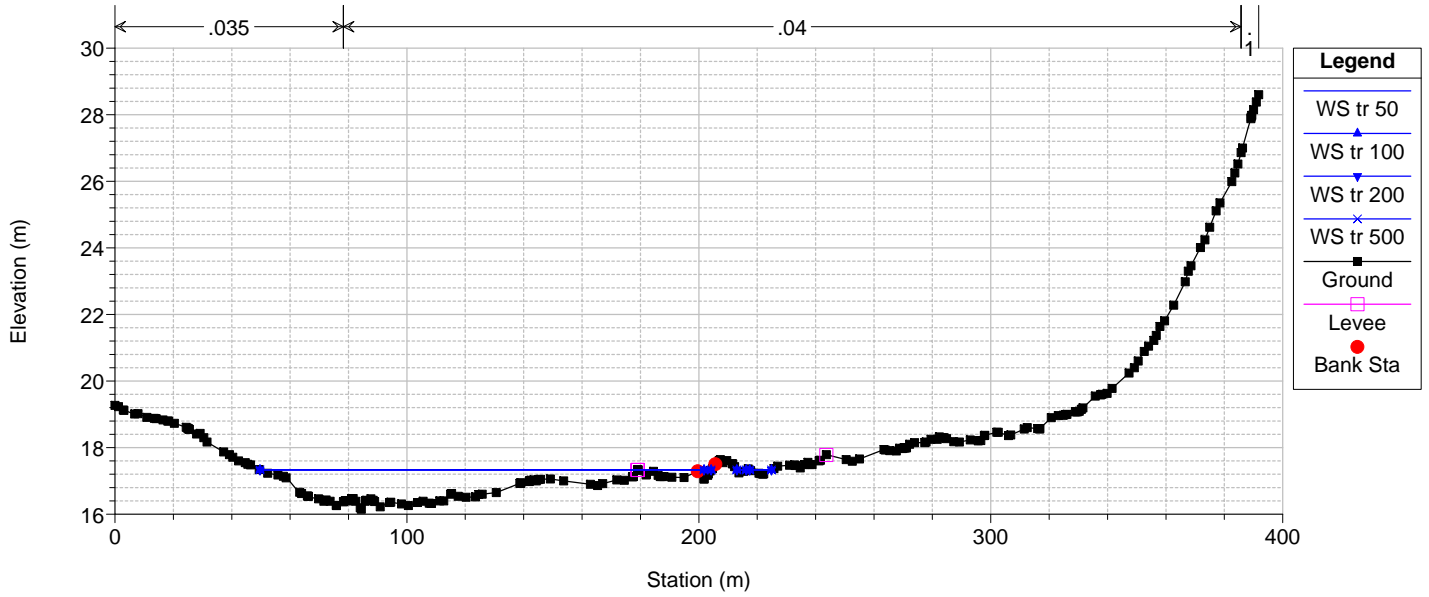
River = Rio Crabolu Reach = Asta 2 RS = 595.6849 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

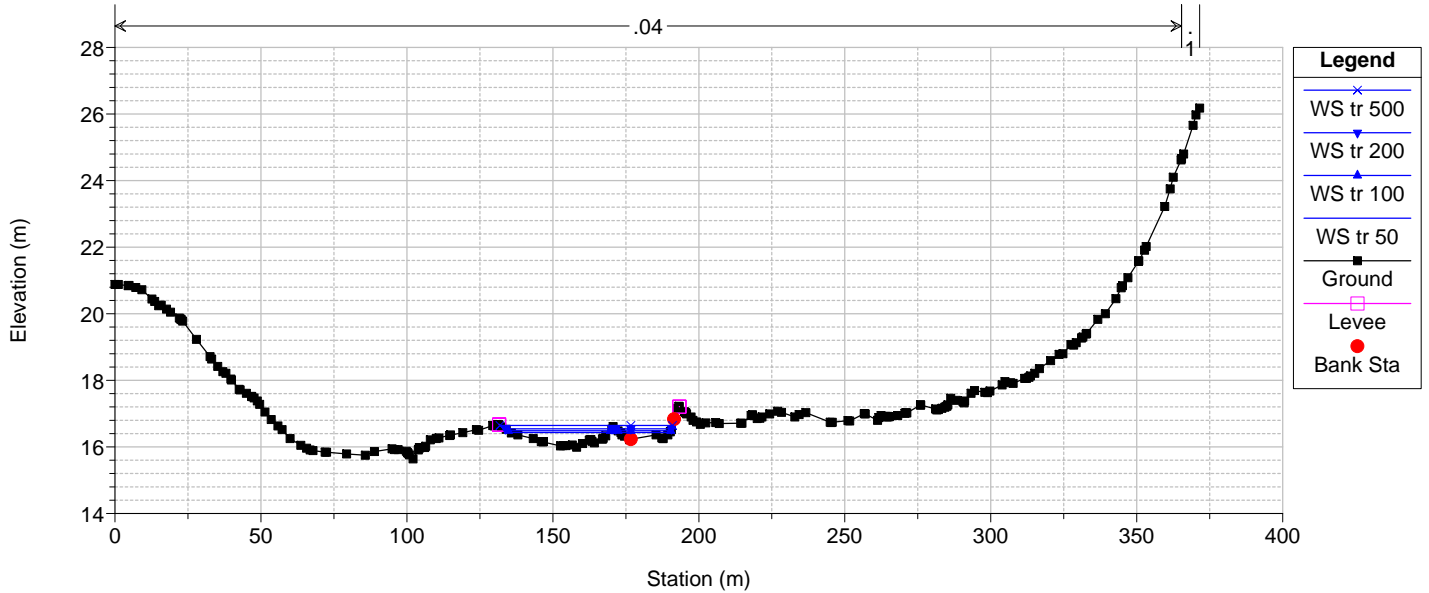
River = Rio Crabolu Reach = Asta 2 RS = 555.2062 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

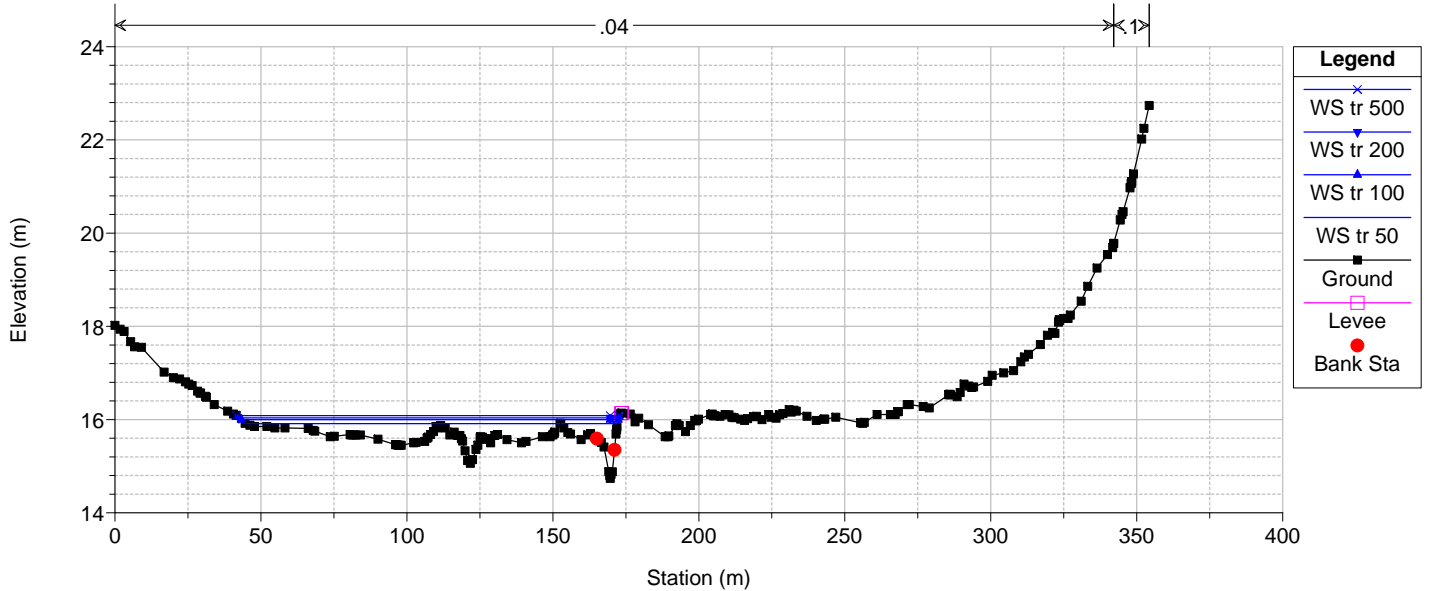
River = Rio Crabolu Reach = Asta 2 RS = 500.7139 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

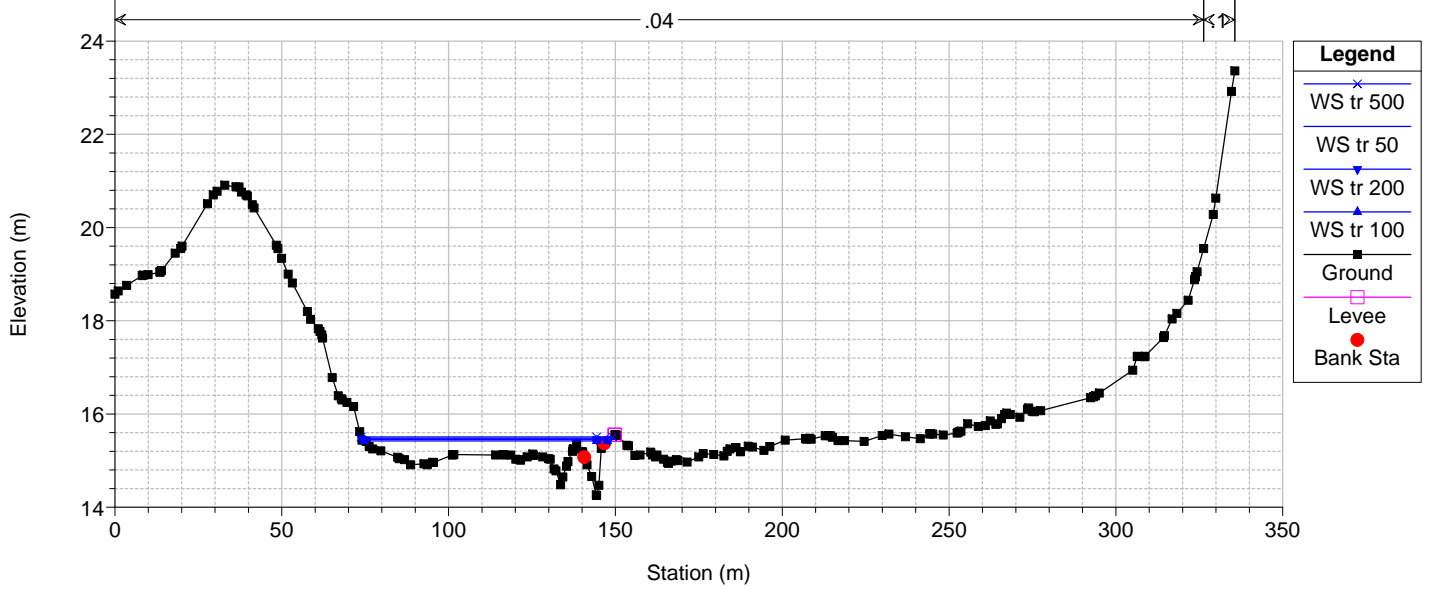
River = Rio Crabolu Reach = Asta 2 RS = 450.0024 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

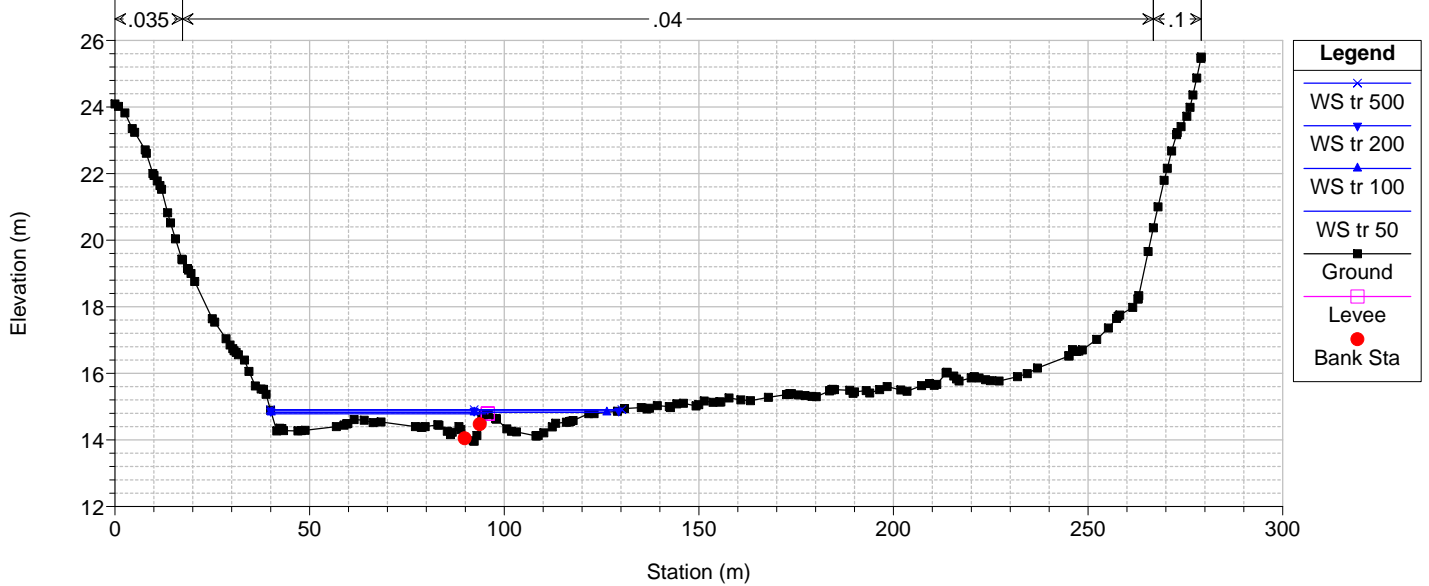
River = Rio Crabolu Reach = Asta 2 RS = 399.8552 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

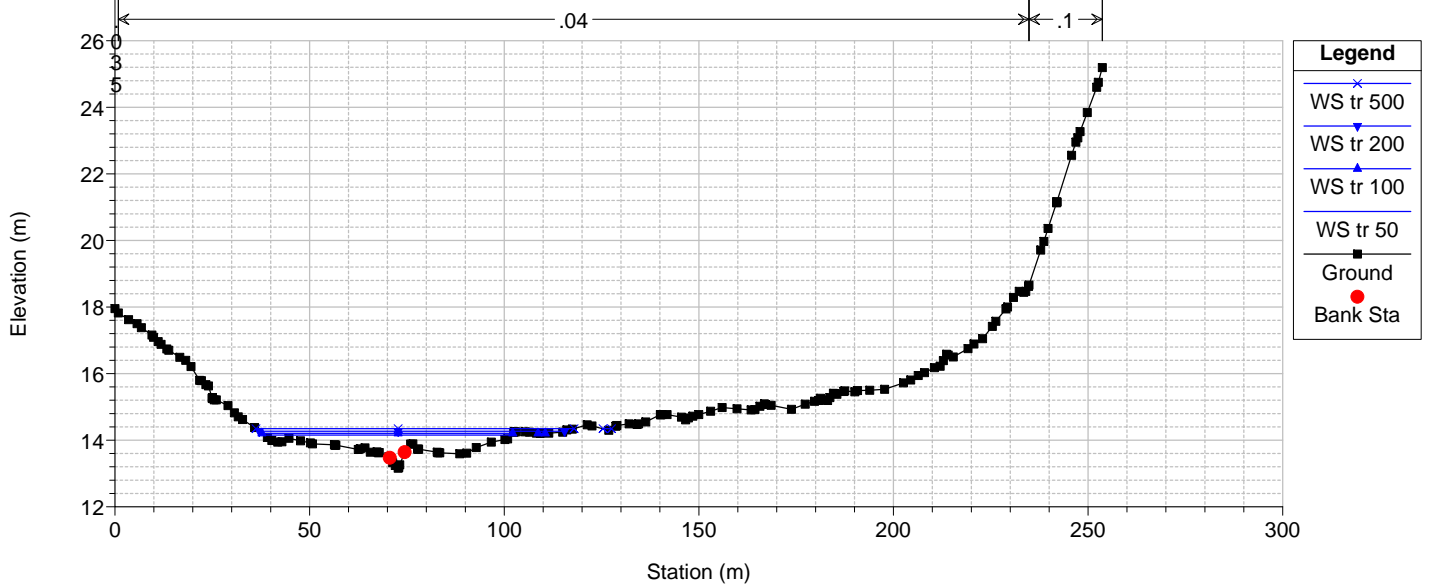
River = Rio Crabolu Reach = Asta 2 RS = 348.6802 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

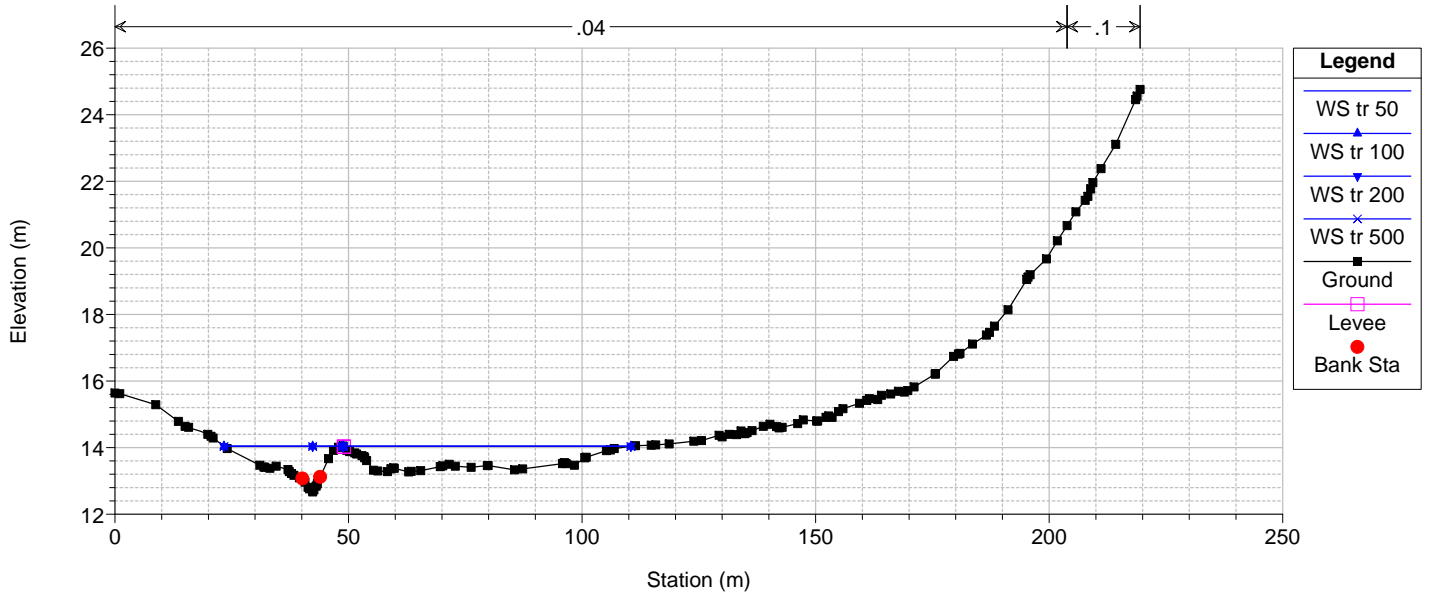
River = Rio Crabolu Reach = Asta 2 RS = 300 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

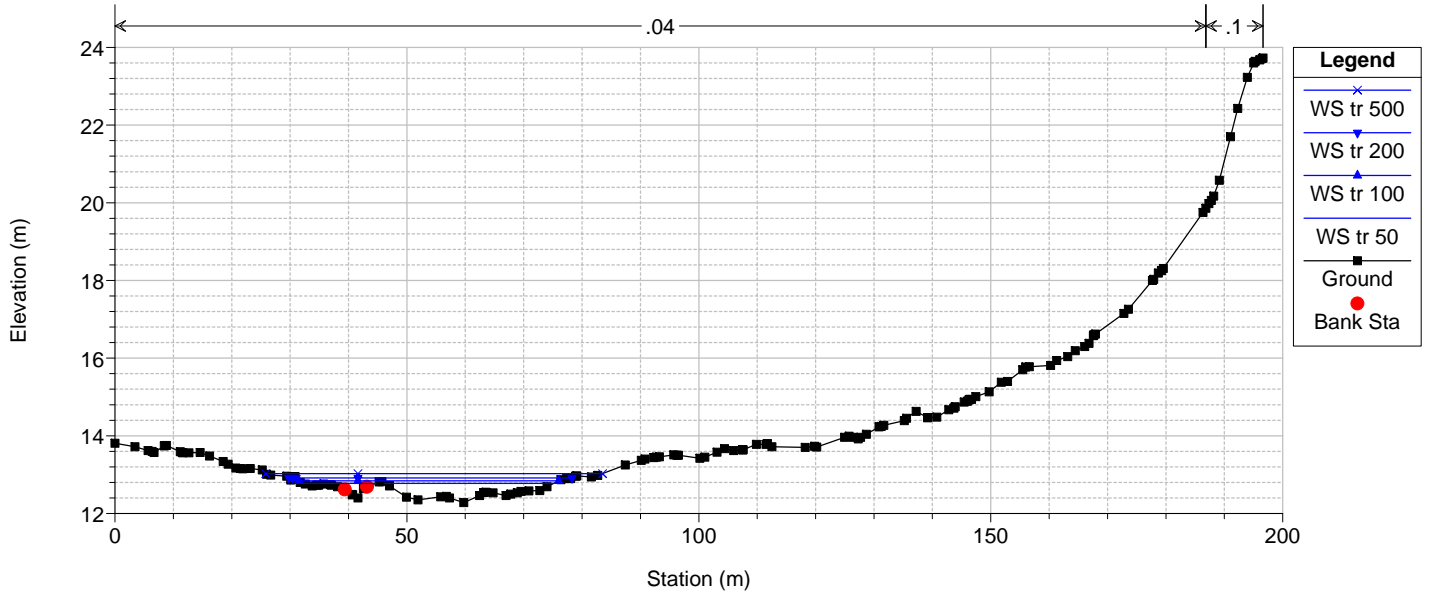
River = Rio Crabolu Reach = Asta 2 RS = 258.9499 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

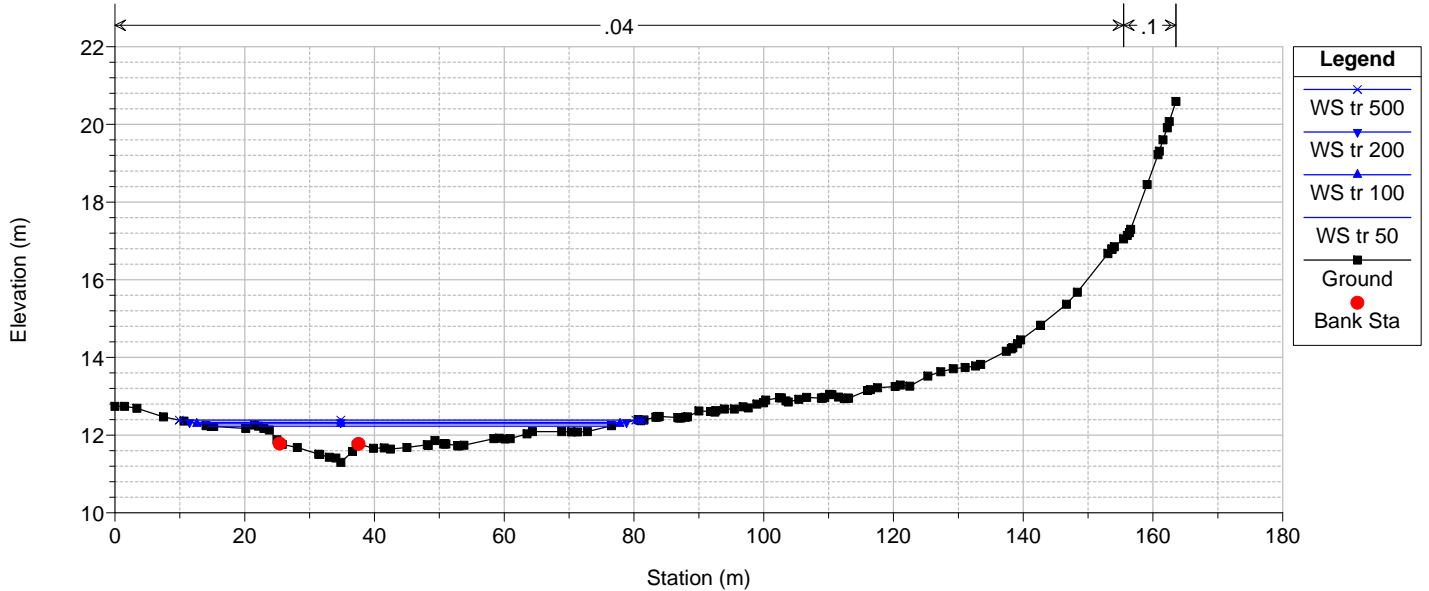
River = Rio Crabolu Reach = Asta 2 RS = 212.1705 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

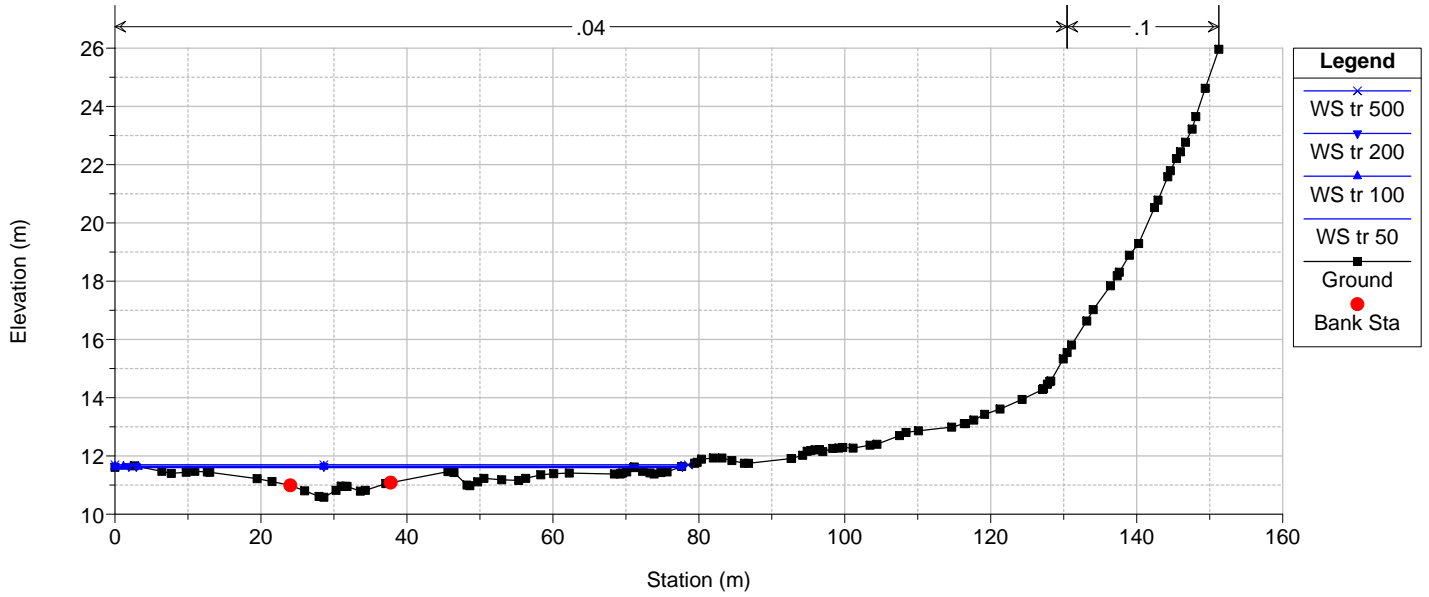
River = Rio Crabolu Reach = Asta 2 RS = 163.6459 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

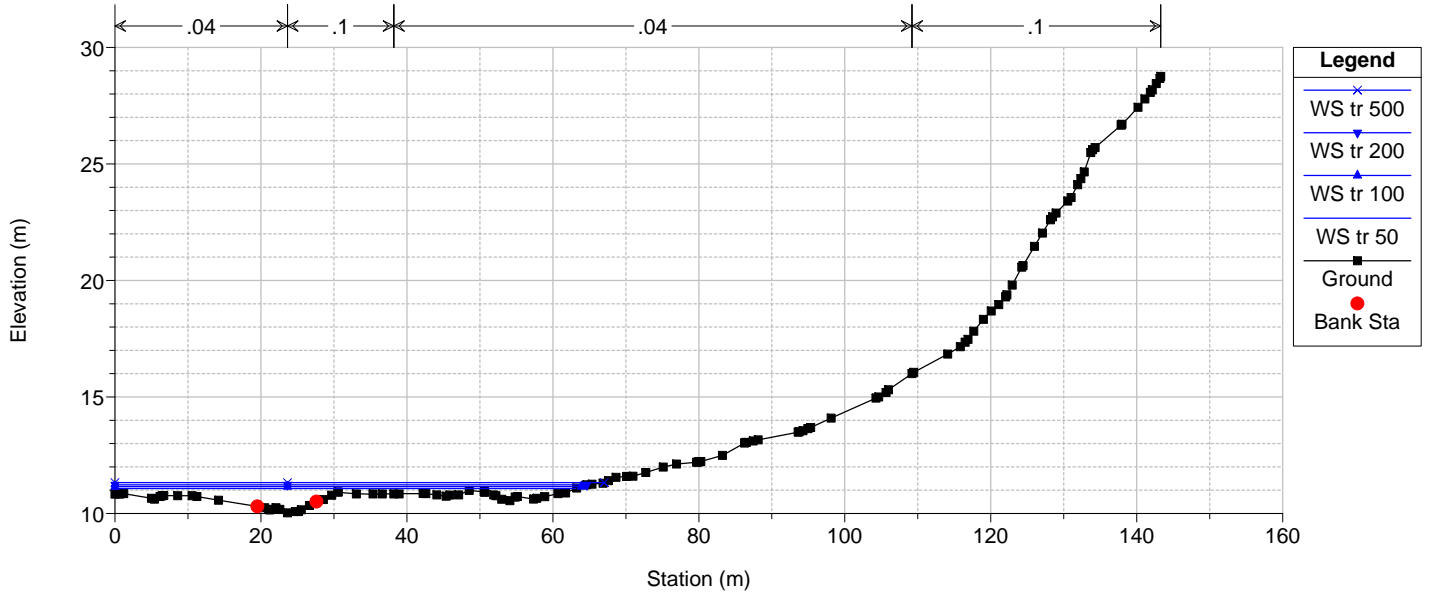
River = Rio Crabolu Reach = Asta 2 RS = 114.9311 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

River = Rio Crabolu Reach = Asta 2 RS = 73.29565 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	3100	tr 50	17.73	80.66	81.20	81.20	81.42	0.015170	2.12	8.54	19.59	0.99
Asta 1	3100	tr 100	20.59	80.66	81.25	81.25	81.49	0.014599	2.22	9.50	19.95	0.99
Asta 1	3100	tr 200	23.51	80.66	81.29	81.29	81.56	0.014115	2.31	10.45	20.33	0.98
Asta 1	3100	tr 500	27.61	80.66	81.36	81.36	81.65	0.013480	2.43	11.75	20.84	0.98
Asta 1	3050	tr 50	17.73	76.18	76.44	76.84	79.03	0.432822	7.21	2.54	12.29	4.72
Asta 1	3050	tr 100	20.59	76.18	76.47	76.89	79.19	0.394431	7.41	2.89	12.75	4.59
Asta 1	3050	tr 200	23.51	76.18	76.49	76.93	79.33	0.362850	7.59	3.25	13.26	4.47
Asta 1	3050	tr 500	27.61	76.18	76.53	76.98	79.51	0.329554	7.82	3.75	13.94	4.35
Asta 1	3000	tr 50	17.73	72.80	73.31	73.43	73.72	0.039498	2.99	6.55	21.93	1.54
Asta 1	3000	tr 100	20.59	72.80	73.34	73.47	73.80	0.041269	3.19	7.13	22.08	1.59
Asta 1	3000	tr 200	23.51	72.80	73.36	73.52	73.88	0.043026	3.39	7.66	22.22	1.64
Asta 1	3000	tr 500	27.61	72.80	73.39	73.57	73.99	0.045163	3.64	8.37	22.40	1.70
Asta 1	2950	tr 50	17.73	69.90	70.35	70.54	71.03	0.075779	3.91	5.10	19.53	2.11
Asta 1	2950	tr 100	20.59	69.90	70.38	70.58	71.10	0.071827	4.04	5.74	19.66	2.08
Asta 1	2950	tr 200	23.51	69.90	70.41	70.63	71.18	0.068692	4.17	6.37	19.79	2.06
Asta 1	2950	tr 500	27.61	69.90	70.45	70.69	71.27	0.065461	4.33	7.19	19.95	2.04
Asta 1	2900.257	tr 50	17.73	67.25	67.76	67.88	68.16	0.043090	2.86	6.43	20.58	1.58
Asta 1	2900.257	tr 100	20.59	67.25	67.79	67.92	68.25	0.044704	3.06	6.99	20.74	1.63
Asta 1	2900.257	tr 200	23.51	67.25	67.81	67.97	68.33	0.046125	3.25	7.52	20.90	1.67
Asta 1	2900.257	tr 500	27.61	67.25	67.85	68.02	68.44	0.047745	3.50	8.23	21.11	1.72
Asta 1	2866.996	tr 50	17.73	65.88	66.48	66.53	66.72	0.019008	2.40	8.76	26.97	1.11
Asta 1	2866.996	tr 100	20.59	65.88	66.52	66.57	66.77	0.018946	2.51	9.72	27.74	1.12
Asta 1	2866.996	tr 200	23.51	65.88	66.55	66.61	66.83	0.018973	2.62	10.65	28.41	1.13
Asta 1	2866.996	tr 500	27.61	65.88	66.59	66.65	66.90	0.019134	2.76	11.85	29.05	1.15
Asta 1	2849.469	tr 50	17.73	64.57	64.86	65.06	65.84	0.228496	4.71	4.16	24.68	3.34
Asta 1	2849.469	tr 100	20.59	64.57	64.89	65.13	65.91	0.209057	4.82	4.70	25.03	3.25
Asta 1	2849.469	tr 200	23.51	64.57	64.91	65.16	65.97	0.192277	4.92	5.24	25.42	3.16
Asta 1	2849.469	tr 500	27.61	64.57	64.94	65.20	66.06	0.173771	5.04	5.99	25.94	3.06
Asta 1	2800.184	tr 50	17.73	62.60	63.18	63.21	63.41	0.018578	2.12	8.57	23.47	1.07
Asta 1	2800.184	tr 100	20.59	62.60	63.22	63.25	63.47	0.019061	2.27	9.36	23.98	1.09
Asta 1	2800.184	tr 200	23.51	62.60	63.25	63.30	63.54	0.019544	2.40	10.12	24.62	1.12
Asta 1	2800.184	tr 500	27.61	62.60	63.29	63.36	63.62	0.020191	2.58	11.13	25.57	1.16
Asta 1	2747.168	tr 50	17.73	61.06	61.87	61.99	62.28	0.024270	3.29	7.19	21.06	1.31
Asta 1	2747.168	tr 100	20.59	61.06	61.91	62.03	62.33	0.023890	3.40	8.05	21.34	1.31
Asta 1	2747.168	tr 200	23.51	61.06	61.95	62.08	62.39	0.023523	3.50	8.87	21.54	1.31
Asta 1	2747.168	tr 500	27.61	61.06	62.00	62.13	62.47	0.022929	3.61	9.99	21.80	1.31
Asta 1	2700	tr 50	17.73	59.95	60.50	60.64	60.96	0.031662	3.10	6.19	17.43	1.43
Asta 1	2700	tr 100	20.59	59.95	60.54	60.69	61.04	0.031066	3.24	6.92	17.76	1.44
Asta 1	2700	tr 200	23.51	59.95	60.58	60.74	61.12	0.030554	3.38	7.63	18.08	1.44
Asta 1	2700	tr 500	27.61	59.95	60.63	60.81	61.22	0.029948	3.55	8.58	18.49	1.45
Asta 1	2650	tr 50	17.73	57.76	58.57	58.75	59.13	0.042528	3.47	5.79	18.82	1.64
Asta 1	2650	tr 100	20.59	57.76	58.61	58.81	59.22	0.042874	3.66	6.46	19.83	1.67
Asta 1	2650	tr 200	23.51	57.76	58.64	58.86	59.30	0.043299	3.83	7.12	20.74	1.69
Asta 1	2650	tr 500	27.61	57.76	58.68	58.91	59.41	0.043854	4.06	7.99	21.87	1.72
Asta 1	2599.896	tr 50	17.73	56.35	57.50	57.60	57.89	0.015213	2.99	7.22	16.06	1.07
Asta 1	2599.896	tr 100	20.59	56.35	57.56	57.67	57.97	0.015121	3.12	8.15	16.80	1.07
Asta 1	2599.896	tr 200	23.51	56.35	57.61	57.73	58.05	0.015080	3.24	9.05	17.49	1.08
Asta 1	2599.896	tr 500	27.61	56.35	57.68	57.78	58.15	0.014993	3.39	10.27	18.36	1.09
Asta 1	2549.943	tr 50	17.73	55.24	55.93	56.17	56.68	0.041199	4.09	4.98	12.01	1.69
Asta 1	2549.943	tr 100	20.59	55.24	55.98	56.23	56.78	0.039685	4.25	5.64	12.67	1.68
Asta 1	2549.943	tr 200	23.51	55.24	56.03	56.30	56.87	0.038308	4.39	6.30	13.30	1.67
Asta 1	2549.943	tr 500	27.61	55.24	56.10	56.37	56.99	0.036759	4.57	7.20	14.11	1.66
Asta 1	2499.955	tr 50	17.73	53.97	54.93	54.97	55.24	0.018191	2.51	7.35	16.51	1.10
Asta 1	2499.955	tr 100	20.59	53.97	54.97	55.02	55.32	0.018963	2.69	8.03	17.19	1.14
Asta 1	2499.955	tr 200	23.51	53.97	55.01	55.11	55.40	0.019643	2.86	8.72	18.12	1.17
Asta 1	2499.955	tr 500	27.61	53.97	55.06	55.21	55.51	0.020491	3.08	9.67	19.89	1.21
Asta 1	2450.391	tr 50	17.73	52.69	53.48	53.64	54.07	0.029802	3.58	5.76	15.71	1.45
Asta 1	2450.391	tr 100	20.59	52.69	53.53	53.77	54.15	0.028877	3.71	6.60	18.34	1.44
Asta 1	2450.391	tr 200	23.51	52.69	53.58	53.81	54.22	0.028102	3.83	7.56	19.99	1.44
Asta 1	2450.391	tr 500	27.61	52.69	53.63	53.87	54.31	0.027889	4.00	8.64	22.13	1.45
Asta 1	2398.921	tr 50	17.73	50.61	51.32	51.58	52.10	0.050100	4.30	5.06	15.26	1.84
Asta 1	2398.921	tr 100	20.59	50.61	51.36	51.62	52.20	0.050523	4.52	5.65	15.94	1.87
Asta 1	2398.921	tr 200	23.51	50.61	51.39	51.66	52.29	0.051029	4.72	6.25	18.49	1.90
Asta 1	2398.921	tr 500	27.61	50.61	51.45	51.72	52.41	0.049926	4.95	7.45	21.97	1.90
Asta 1	2352.297	tr 50	17.73	49.87	50.62	50.66	50.84	0.013511	2.49	9.71	27.61	0.98
Asta 1	2352.297	tr 100	20.59	49.87	50.65	50.66	50.89	0.014090	2.63	10.66	28.93	1.01
Asta 1	2352.297	tr 200	23.51	49.87	50.70	50.73	50.95	0.014409	2.77	12.06	32.97	1.04

HEC-RAS Plan: 01 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	2352.297	tr 500	27.61	49.87	50.71	50.76	51.04	0.018144	3.15	12.53	33.89	1.17
Asta 1	2293.773	tr 50	17.73	48.85	49.38	49.46	49.68	0.030781	2.78	7.49	23.31	1.37
Asta 1	2293.773	tr 100	20.59	48.85	49.42	49.51	49.74	0.028749	2.85	8.42	23.71	1.34
Asta 1	2293.773	tr 200	23.51	48.85	49.46	49.55	49.79	0.028622	3.01	9.49	26.83	1.36
Asta 1	2293.773	tr 500	27.61	48.85	49.53	49.60	49.84	0.022901	2.93	11.35	29.08	1.24
Asta 1	2246.979	tr 50	17.73	47.09	48.06	48.14	48.33	0.026522	2.79	8.35	28.75	1.20
Asta 1	2246.979	tr 100	20.59	47.09	48.08	48.14	48.38	0.028651	2.94	9.04	29.14	1.25
Asta 1	2246.979	tr 200	23.51	47.09	48.11	48.20	48.43	0.028970	3.01	9.89	29.61	1.26
Asta 1	2246.979	tr 500	27.61	47.09	48.13	48.24	48.52	0.034669	3.34	10.39	29.89	1.38
Asta 1	2208.947	tr 50	17.73	46.43	47.33	47.19	47.40	0.004482	1.32	15.74	35.99	0.52
Asta 1	2208.947	tr 100	20.59	46.43	47.39	47.22	47.46	0.004119	1.34	17.82	36.54	0.51
Asta 1	2208.947	tr 200	23.51	46.43	47.44	47.25	47.52	0.003962	1.37	19.68	37.02	0.51
Asta 1	2208.947	tr 500	27.61	46.43	47.50	47.29	47.58	0.003987	1.44	21.79	37.56	0.51
Asta 1	2163.147	tr 50	17.73	45.76	46.86	46.79	47.04	0.014335	2.13	9.88	20.41	0.74
Asta 1	2163.147	tr 100	20.59	45.76	46.90	46.85	47.11	0.015406	2.28	10.88	24.91	0.77
Asta 1	2163.147	tr 200	23.51	45.76	46.95	46.93	47.17	0.015475	2.37	12.25	29.63	0.78
Asta 1	2163.147	tr 500	27.61	45.76	47.03	47.03	47.25	0.014447	2.41	14.69	35.49	0.76
Asta 1	2127.551	tr 50	17.73	45.91	46.30	46.30	46.45	0.018583	1.21	10.78	34.29	0.84
Asta 1	2127.551	tr 100	20.59	45.91	46.33	46.33	46.49	0.018474	1.34	12.00	34.71	0.86
Asta 1	2127.551	tr 200	23.51	45.91	46.36	46.36	46.54	0.019532	1.47	12.90	35.01	0.90
Asta 1	2127.551	tr 500	27.61	45.91	46.38	46.40	46.60	0.023019	1.68	13.61	35.25	0.98
Asta 1	2100	tr 50	17.73	44.28	45.45	45.17	45.60	0.005112	1.90	11.27	14.31	0.58
Asta 1	2100	tr 100	20.59	44.28	45.49	45.24	45.67	0.006104	2.12	11.79	14.64	0.63
Asta 1	2100	tr 200	23.51	44.28	45.55	45.32	45.76	0.006518	2.26	12.69	15.22	0.66
Asta 1	2100	tr 500	27.61	44.28	45.68	45.41	45.84	0.004970	2.12	18.21	26.06	0.59
Asta 1	2073.411	tr 50	17.73	44.30	45.13	45.13	45.35	0.021259	2.30	9.01	19.47	0.88
Asta 1	2073.411	tr 100	20.59	44.30	45.23	45.18	45.43	0.015664	2.16	11.08	20.32	0.77
Asta 1	2073.411	tr 200	23.51	44.30	45.37	45.23	45.53	0.010302	1.95	14.07	22.48	0.64
Asta 1	2073.411	tr 500	27.61	44.30	45.56	45.29	45.68	0.006542	1.75	18.69	26.87	0.53
Asta 2	1932.672	tr 50	39.13	41.67	42.59	42.59	42.82	0.013541	2.99	19.60	33.37	1.03
Asta 2	1932.672	tr 100	46.31	41.67	42.59	42.59	42.91	0.018968	3.54	19.60	33.37	1.22
Asta 2	1932.672	tr 200	53.61	41.67	42.61	42.61	43.01	0.023788	4.02	20.23	35.40	1.37
Asta 2	1932.672	tr 500	63.52	41.67	42.61	42.61	43.17	0.033391	4.77	20.23	35.40	1.62
Asta 2	1896.41	tr 50	39.13	39.81	40.92	41.23	41.79	0.069515	4.23	10.08	19.37	1.59
Asta 2	1896.41	tr 100	46.31	39.81	41.07	41.34	41.80	0.048124	3.98	13.01	21.41	1.36
Asta 2	1896.41	tr 200	53.61	39.81	41.19	41.46	41.87	0.038682	3.89	15.92	27.93	1.25
Asta 2	1896.41	tr 500	63.52	39.81	41.31	41.58	41.95	0.032040	3.83	19.89	34.72	1.16
Asta 2	1850	tr 50	39.13	37.89	39.70	39.80	40.15	0.018915	3.23	14.44	23.58	0.95
Asta 2	1850	tr 100	46.31	37.89	39.74	39.89	40.29	0.022214	3.58	15.46	24.20	1.03
Asta 2	1850	tr 200	53.61	37.89	39.78	39.98	40.43	0.025355	3.91	16.45	24.83	1.11
Asta 2	1850	tr 500	63.52	37.89	39.85	40.09	40.58	0.027118	4.19	18.28	27.19	1.16
Asta 2	1800	tr 50	39.13	36.07	37.48	37.85	38.66	0.046532	5.02	8.76	15.15	1.83
Asta 2	1800	tr 100	46.31	36.07	37.59	37.97	38.77	0.039377	5.06	10.63	18.67	1.72
Asta 2	1800	tr 200	53.61	36.07	37.68	38.07	38.88	0.035762	5.15	12.43	20.26	1.67
Asta 2	1800	tr 500	63.52	36.07	37.79	38.19	39.02	0.033489	5.32	14.55	21.37	1.64
Asta 2	1750	tr 50	39.13	34.77	36.00	36.21	36.66	0.029634	4.02	12.19	25.46	1.28
Asta 2	1750	tr 100	46.31	34.77	36.04	36.27	36.83	0.033686	4.40	13.25	25.68	1.38
Asta 2	1750	tr 200	53.61	34.77	36.09	36.39	36.98	0.036246	4.70	14.43	25.92	1.44
Asta 2	1750	tr 500	63.52	34.77	36.15	36.48	37.15	0.038463	5.02	16.05	26.24	1.49
Asta 2	1702.468	tr 50	39.13	33.75	35.21	35.31	35.67	0.013838	3.53	14.69	24.32	1.07
Asta 2	1702.468	tr 100	46.31	33.75	35.30	35.40	35.78	0.013320	3.64	16.82	25.14	1.06
Asta 2	1702.468	tr 200	53.61	33.75	35.38	35.47	35.88	0.013165	3.77	18.75	25.86	1.07
Asta 2	1702.468	tr 500	63.52	33.75	35.47	35.57	36.02	0.013131	3.94	21.16	26.70	1.08
Asta 2	1642.113	tr 50	39.13	32.54	34.15	34.29	34.76	0.016300	3.80	12.05	15.74	1.15
Asta 2	1642.113	tr 100	46.31	32.54	34.27	34.38	34.91	0.015296	3.93	13.97	17.01	1.13
Asta 2	1642.113	tr 200	53.61	32.54	34.38	34.43	35.04	0.014358	4.04	15.97	18.31	1.11
Asta 2	1642.113	tr 500	63.52	32.54	34.58	34.69	35.23	0.012620	4.15	20.20	24.97	1.06
Asta 2	1602.575	tr 50	39.13	31.97	33.59	33.80	34.18	0.013457	3.79	13.79	25.14	1.08
Asta 2	1602.575	tr 100	46.31	31.97	33.66	33.88	34.32	0.014583	4.09	15.62	27.76	1.13
Asta 2	1602.575	tr 200	53.61	31.97	33.72	33.95	34.45	0.015743	4.37	17.24	29.60	1.18
Asta 2	1602.575	tr 500	63.52	31.97	33.77	34.04	34.63	0.018014	4.79	18.88	31.42	1.27
Asta 2	1544.648	tr 50	39.13	31.41	33.21	32.59	33.31	0.001520	1.56	31.44	31.77	0.39
Asta 2	1544.648	tr 100	46.31	31.41	33.29	32.77	33.40	0.001753	1.73	33.88	33.55	0.42
Asta 2	1544.648	tr 200	53.61	31.41	33.36	32.86	33.49	0.001965	1.88	36.36	37.33	0.44
Asta 2	1544.648	tr 500	63.52	31.41	33.45	32.97	33.61	0.002331	2.11	39.85	40.50	0.49
Asta 2	1516.039	tr 50	39.13	32.04	32.90	32.90	33.14	0.012630	2.80	19.06	40.41	0.99

HEC-RAS Plan: 01 (Continued)

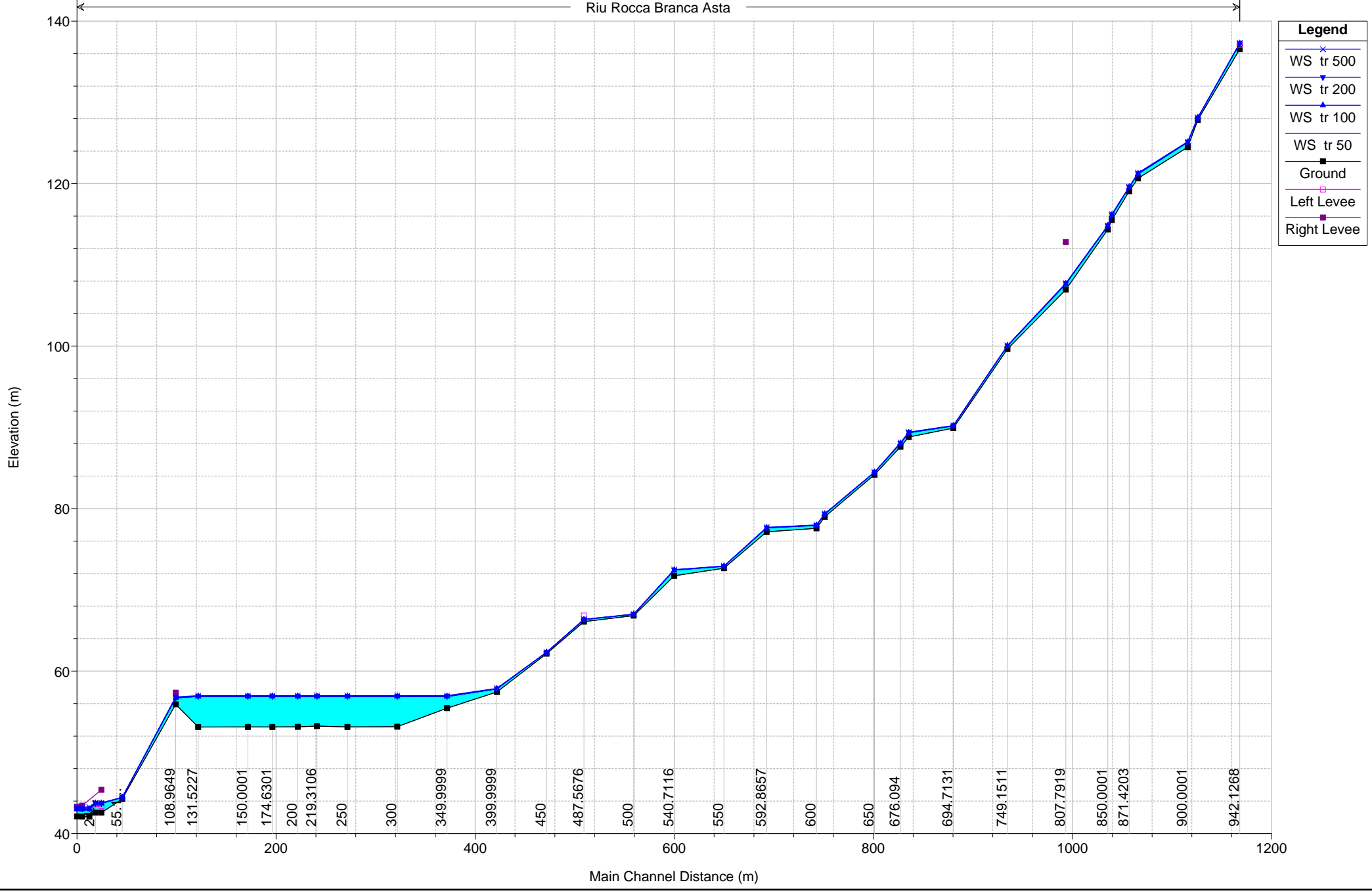
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 2	1516.039	tr 100	46.31	32.04	32.97	32.97	33.22	0.011840	2.86	21.89	42.10	0.97
Asta 2	1516.039	tr 200	53.61	32.04	33.03	33.03	33.30	0.011732	2.96	24.26	42.98	0.97
Asta 2	1516.039	tr 500	63.52	32.04	33.09	33.09	33.40	0.011898	3.12	27.07	43.91	0.99
Asta 2	1499.38	tr 50	39.13	30.18	31.27	31.65	32.66	0.044737	5.65	8.16	13.43	1.88
Asta 2	1499.38	tr 100	46.31	30.18	31.38	31.85	32.77	0.039658	5.73	9.68	14.56	1.80
Asta 2	1499.38	tr 200	53.61	30.18	31.48	31.95	32.87	0.035275	5.77	11.30	16.28	1.73
Asta 2	1499.38	tr 500	63.52	30.18	31.62	32.08	32.98	0.030706	5.82	13.89	19.72	1.65
Asta 2	1454.534	tr 50	39.13	30.60	31.42	31.42	31.64	0.013477	2.30	20.11	47.21	0.96
Asta 2	1454.534	tr 100	46.31	30.60	31.48	31.48	31.71	0.012926	2.40	22.86	48.82	0.96
Asta 2	1454.534	tr 200	53.61	30.60	31.51	31.51	31.78	0.014395	2.61	24.35	49.67	1.02
Asta 2	1454.534	tr 500	63.52	30.60	31.59	31.61	31.87	0.013701	2.73	28.28	55.38	1.01
Asta 2	1395.858	tr 50	39.13	28.90	29.85	30.04	30.44	0.031764	3.65	12.77	33.41	1.49
Asta 2	1395.858	tr 100	46.31	28.90	29.90	30.11	30.54	0.031718	3.84	14.49	34.93	1.51
Asta 2	1395.858	tr 200	53.61	28.90	29.97	30.17	30.59	0.028106	3.86	16.91	37.22	1.44
Asta 2	1395.858	tr 500	63.52	28.90	30.03	30.25	30.71	0.028315	4.08	19.15	39.21	1.47
Asta 2	1355.892	tr 50	39.13	28.63	29.51	29.51	29.79	0.011026	2.49	17.88	33.20	0.91
Asta 2	1355.892	tr 100	46.31	28.63	29.58	29.58	29.88	0.010744	2.61	20.50	38.46	0.91
Asta 2	1355.892	tr 200	53.61	28.63	29.66	29.66	29.97	0.010237	2.70	23.59	44.20	0.91
Asta 2	1355.892	tr 500	63.52	28.63	29.78	29.78	30.08	0.008523	2.69	29.80	53.09	0.84
Asta 2	1300	tr 50	39.13	27.77	28.57	28.67	28.97	0.019767	3.11	15.15	33.87	1.20
Asta 2	1300	tr 100	46.31	27.77	28.62	28.74	29.07	0.020289	3.31	16.96	35.25	1.23
Asta 2	1300	tr 200	53.61	27.77	28.66	28.80	29.16	0.021009	3.50	18.55	35.88	1.27
Asta 2	1300	tr 500	63.52	27.77	28.70	28.89	29.31	0.024003	3.86	19.92	36.42	1.36
Asta 2	1255.209	tr 50	39.13	26.78	28.22	28.08	28.35	0.004279	2.07	27.24	44.57	0.61
Asta 2	1255.209	tr 100	46.31	26.78	28.33	28.13	28.46	0.003791	2.07	32.29	47.77	0.58
Asta 2	1255.209	tr 200	53.61	26.78	28.29	28.19	28.48	0.005979	2.54	30.28	46.00	0.72
Asta 2	1255.209	tr 500	63.52	26.78	28.40	28.26	28.60	0.005685	2.62	36.02	53.54	0.72
Asta 2	1201.843	tr 50	39.13	26.25	27.69	27.69	28.04	0.007315	2.85	17.42	25.56	0.81
Asta 2	1201.843	tr 100	46.31	26.25	27.78	27.78	28.16	0.007430	3.01	19.81	25.87	0.82
Asta 2	1201.843	tr 200	53.61	26.25	27.87	27.87	28.16	0.005967	2.81	29.24	44.63	0.74
Asta 2	1201.843	tr 500	63.52	26.25	27.93	27.93	28.26	0.006656	3.05	32.12	45.22	0.79
Asta 2	1147.617	tr 50	39.13	24.50	26.24	26.52	27.18	0.043372	4.67	10.00	19.13	1.42
Asta 2	1147.617	tr 100	46.31	24.50	26.31	26.62	27.30	0.042592	4.84	11.45	19.78	1.42
Asta 2	1147.617	tr 200	53.61	24.50	26.38	26.70	27.40	0.041228	4.95	12.92	20.42	1.41
Asta 2	1147.617	tr 500	63.52	24.50	26.50	26.82	27.49	0.036078	4.92	15.45	22.03	1.34
Asta 2	1123.194	tr 50	39.13	24.72	26.25	26.25	26.59	0.011177	2.84	15.90	23.10	0.93
Asta 2	1123.194	tr 100	46.31	24.72	26.34	26.34	26.71	0.011089	2.99	17.85	23.69	0.94
Asta 2	1123.194	tr 200	53.61	24.72	26.41	26.41	26.82	0.011246	3.16	19.60	24.22	0.96
Asta 2	1123.194	tr 500	63.52	24.72	26.54	26.54	26.96	0.010009	3.21	23.10	32.78	0.92
Asta 2	1102.01	tr 50	39.13	23.37	25.92	25.56	26.02	0.003054	1.68	27.66	31.37	0.43
Asta 2	1102.01	tr 100	46.31	23.37	26.02	25.66	26.14	0.003092	1.76	30.82	32.35	0.43
Asta 2	1102.01	tr 200	53.61	23.37	26.11	25.72	26.24	0.003113	1.83	33.93	33.34	0.44
Asta 2	1102.01	tr 500	63.52	23.37	26.22	25.80	26.37	0.003229	1.94	37.70	35.23	0.45
Asta 2	1090.013		Culvert									
Asta 2	1078.488	tr 50	39.13	23.17	25.09	25.05	25.33	0.006596	2.56	21.94	38.70	0.69
Asta 2	1078.488	tr 100	46.31	23.17	25.17	25.17	25.43	0.006646	2.67	25.31	44.59	0.70
Asta 2	1078.488	tr 200	53.61	23.17	25.28	25.22	25.51	0.005701	2.59	30.51	50.72	0.65
Asta 2	1078.488	tr 500	63.52	23.17	25.45		25.65	0.004758	2.53	40.57	63.52	0.61
Asta 2	1049.803	tr 50	39.13	22.21	25.03		25.20	0.002524	2.12	26.35	34.12	0.46
Asta 2	1049.803	tr 100	46.31	22.21	25.06	24.77	25.29	0.003245	2.42	27.54	37.32	0.52
Asta 2	1049.803	tr 200	53.61	22.21	25.10	24.86	25.38	0.003941	2.70	29.02	41.03	0.57
Asta 2	1049.803	tr 500	63.52	22.21	25.14	24.98	25.49	0.005104	3.11	30.49	43.17	0.65
Asta 2	1031.857	tr 50	39.13	23.60	24.93	24.93	25.12	0.009077	2.42	23.94	55.97	0.77
Asta 2	1031.857	tr 100	46.31	23.60	24.98	24.98	25.19	0.009706	2.58	26.59	58.10	0.80
Asta 2	1031.857	tr 200	53.61	23.60	25.02	25.02	25.25	0.010179	2.72	29.25	60.52	0.83
Asta 2	1031.857	tr 500	63.52	23.60	25.10	25.10	25.33	0.009566	2.76	34.32	66.05	0.81
Asta 2	1012.65	tr 50	39.13	21.93	23.93	24.29	24.76	0.033389	4.35	10.69	17.47	1.37
Asta 2	1012.65	tr 100	46.31	21.93	24.08	24.35	24.84	0.027069	4.29	14.27	32.35	1.27
Asta 2	1012.65	tr 200	53.61	21.93	24.15	24.42	24.90	0.026069	4.37	16.68	36.91	1.25
Asta 2	1012.65	tr 500	63.52	21.93	24.25	24.49	25.00	0.024738	4.49	20.81	44.10	1.24
Asta 2	979.4611	tr 50	39.13	22.97	23.70	23.66	23.85	0.014069	2.18	23.35	56.96	0.88
Asta 2	979.4611	tr 100	46.31	22.97	23.76	23.71	23.92	0.013115	2.24	26.85	59.38	0.86
Asta 2	979.4611	tr 200	53.61	22.97	23.78	23.75	23.98	0.015898	2.50	27.78	59.96	0.95
Asta 2	979.4611	tr 500	63.52	22.97	23.78	23.81	24.06	0.022461	2.97	27.72	59.92	1.13
Asta 2	939.4351	tr 50	39.13	22.33	23.02	23.02	23.23	0.018446	2.08	19.75	48.40	0.96
Asta 2	939.4351	tr 100	46.31	22.33	23.06	23.06	23.31	0.019315	2.25	21.82	51.27	0.99

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 2	939.4351	tr 200	53.61	22.33	23.14	23.14	23.37	0.015235	2.21	26.55	63.14	0.90
Asta 2	939.4351	tr 500	63.52	22.33	23.22	23.22	23.46	0.013328	2.24	31.94	68.81	0.86
Asta 2	918.9291	tr 50	39.13	21.73	22.50	22.56	22.82	0.020391	2.71	16.85	37.15	1.06
Asta 2	918.9291	tr 100	46.31	21.73	22.61	22.61	22.83	0.012565	2.36	25.09	57.76	0.86
Asta 2	918.9291	tr 200	53.61	21.73	22.54	22.67	22.95	0.025450	3.17	21.45	53.82	1.20
Asta 2	918.9291	tr 500	63.52	21.73	22.59	22.73	23.05	0.027297	3.41	23.75	56.24	1.26
Asta 2	901.2863	tr 50	39.13	21.31	22.00	22.10	22.37	0.031859	2.79	15.16	38.93	1.27
Asta 2	901.2863	tr 100	46.31	21.31	22.04	22.16	22.47	0.033117	3.01	16.82	40.36	1.31
Asta 2	901.2863	tr 200	53.61	21.31	22.15	22.19	22.51	0.023111	2.82	21.13	43.72	1.12
Asta 2	901.2863	tr 500	63.52	21.31	22.23	22.31	22.61	0.020414	2.88	25.07	48.85	1.08
Asta 2	870.4627	tr 50	39.13	20.83	21.76	21.61	21.89	0.006964	1.74	26.18	49.11	0.64
Asta 2	870.4627	tr 100	46.31	20.83	21.68	21.68	21.92	0.015132	2.36	22.26	44.24	0.92
Asta 2	870.4627	tr 200	53.61	20.83	21.72	21.72	22.00	0.015772	2.52	24.29	45.51	0.95
Asta 2	870.4627	tr 500	63.52	20.83	21.79	21.82	22.10	0.015871	2.68	27.53	49.66	0.97
Asta 2	833.6752	tr 50	39.13	20.19	21.12	21.04	21.48	0.017914	2.79	15.89	29.11	1.02
Asta 2	833.6752	tr 100	46.31	20.19	21.20	21.20	21.43	0.011685	2.41	24.68	51.50	0.84
Asta 2	833.6752	tr 200	53.61	20.19	21.26	21.26	21.50	0.011362	2.48	27.87	53.98	0.83
Asta 2	833.6752	tr 500	63.52	20.19	21.32	21.32	21.58	0.012033	2.66	30.83	55.06	0.87
Asta 2	781.4929	tr 50	39.13	19.26	20.45	20.45	20.66	0.013115	2.69	21.76	50.50	0.89
Asta 2	781.4929	tr 100	46.31	19.26	20.47	20.50	20.73	0.016041	3.03	22.88	51.25	0.99
Asta 2	781.4929	tr 200	53.61	19.26	20.51	20.55	20.80	0.016585	3.17	25.17	52.73	1.01
Asta 2	781.4929	tr 500	63.52	19.26	20.58	20.62	20.88	0.015689	3.23	29.03	54.99	1.00
Asta 2	722.1672	tr 50	39.13	18.52	19.47	19.46	19.76	0.014246	2.59	18.43	42.27	0.92
Asta 2	722.1672	tr 100	46.31	18.52	19.45	19.45	19.88	0.020964	3.10	17.83	39.76	1.11
Asta 2	722.1672	tr 200	53.61	18.52	19.62	19.62	19.79	0.008107	2.19	36.41	92.45	0.71
Asta 2	722.1672	tr 500	63.52	18.52	19.56	19.68	19.91	0.016829	3.03	31.09	90.48	1.02
Asta 2	653.4905	tr 50	39.13	17.48	18.79	18.76	18.91	0.010061	2.24	31.74	107.24	0.76
Asta 2	653.4905	tr 100	46.31	17.48	18.83	18.81	18.95	0.010067	2.31	36.25	120.06	0.76
Asta 2	653.4905	tr 200	53.61	17.48	18.87	18.85	18.99	0.010098	2.36	40.22	123.93	0.77
Asta 2	653.4905	tr 500	63.52	17.48	18.91	18.88	19.04	0.009941	2.42	45.87	131.57	0.77
Asta 2	595.6849	tr 50	39.13	17.39	18.11	18.11	18.22	0.015181	2.34	29.07	115.86	0.99
Asta 2	595.6849	tr 100	46.31	17.39	18.14	18.14	18.26	0.015251	2.43	32.88	121.73	1.00
Asta 2	595.6849	tr 200	53.61	17.39	18.17	18.17	18.30	0.015283	2.51	36.27	124.08	1.01
Asta 2	595.6849	tr 500	63.52	17.39	18.20	18.20	18.34	0.015516	2.61	40.39	126.36	1.02
Asta 2	555.2062	tr 50	39.13	17.06	17.33	17.33	17.34	0.000673	0.16	86.48	165.14	0.15
Asta 2	555.2062	tr 100	46.31	17.06	17.33	17.33	17.34	0.000943	0.20	86.48	165.14	0.17
Asta 2	555.2062	tr 200	53.61	17.06	17.33	17.33	17.35	0.001264	0.23	86.48	165.14	0.20
Asta 2	555.2062	tr 500	63.52	17.06	17.33	17.33	17.36	0.001774	0.27	86.48	165.14	0.24
Asta 2	500.7139	tr 50	39.13	16.23	16.43	16.62	17.14	0.152852	2.49	10.75	50.31	2.21
Asta 2	500.7139	tr 100	46.31	16.23	16.48	16.68	17.11	0.111824	2.63	13.43	53.00	2.00
Asta 2	500.7139	tr 200	53.61	16.23	16.54	16.68	17.08	0.079603	2.66	16.64	55.62	1.76
Asta 2	500.7139	tr 500	63.52	16.23	16.65	16.68	17.05	0.045623	2.54	22.55	59.10	1.41
Asta 2	450.0024	tr 50	39.13	14.74	15.91	15.87	15.99	0.009133	1.81	36.22	126.84	0.70
Asta 2	450.0024	tr 100	46.31	14.74	16.00	15.90	16.05	0.005695	1.55	46.98	129.22	0.56
Asta 2	450.0024	tr 200	53.61	14.74	16.04	15.92	16.10	0.005458	1.57	52.24	130.08	0.55
Asta 2	450.0024	tr 500	63.52	14.74	16.09	15.95	16.15	0.005358	1.61	58.48	131.09	0.55
Asta 2	399.8552	tr 50	39.13	14.25	15.48	15.37	15.56	0.007577	1.64	31.39	74.73	0.62
Asta 2	399.8552	tr 100	46.31	14.25	15.42	15.41	15.58	0.016779	2.30	27.09	72.75	0.91
Asta 2	399.8552	tr 200	53.61	14.25	15.45	15.45	15.63	0.017174	2.41	29.59	74.22	0.93
Asta 2	399.8552	tr 500	63.52	14.25	15.51	15.49	15.70	0.016034	2.45	33.63	75.36	0.91
Asta 2	348.6802	tr 50	39.13	13.96	14.78	14.78	14.97	0.017406	2.59	21.55	55.08	0.98
Asta 2	348.6802	tr 100	46.31	13.96	14.83	14.80	14.93	0.009097	1.95	34.84	86.22	0.72
Asta 2	348.6802	tr 200	53.61	13.96	14.88	14.80	14.98	0.008770	2.00	38.99	89.41	0.71
Asta 2	348.6802	tr 500	63.52	13.96	14.91	14.81	15.03	0.009672	2.16	42.12	90.29	0.75
Asta 2	300	tr 50	39.13	13.16	14.15	14.15	14.32	0.014714	2.61	23.72	63.44	0.92
Asta 2	300	tr 100	46.31	13.16	14.21	14.19	14.38	0.013820	2.64	27.07	66.25	0.90
Asta 2	300	tr 200	53.61	13.16	14.27	14.22	14.44	0.013832	2.77	31.88	78.46	0.91
Asta 2	300	tr 500	63.52	13.16	14.34		14.51	0.011866	2.70	37.78	83.83	0.86
Asta 2	258.9499	tr 50	39.13	12.67	14.04	14.04	14.08	0.002403	1.35	46.73	86.82	0.40
Asta 2	258.9499	tr 100	46.31	12.67	14.04	14.04	14.10	0.003366	1.59	46.73	86.82	0.47
Asta 2	258.9499	tr 200	53.61	12.67	14.04	14.04	14.12	0.004511	1.84	46.73	86.82	0.54
Asta 2	258.9499	tr 500	63.52	12.67	14.04	14.04	14.15	0.006332	2.18	46.73	86.82	0.64
Asta 2	212.1705	tr 50	39.13	12.40	12.78	13.01	13.65	0.150108	3.70	9.70	41.34	2.42
Asta 2	212.1705	tr 100	46.31	12.40	12.84	13.06	13.57	0.109856	3.72	12.49	44.54	2.15
Asta 2	212.1705	tr 200	53.61	12.40	12.91	13.10	13.52	0.074949	3.54	15.84	47.85	1.84
Asta 2	212.1705	tr 500	63.52	12.40	13.03	13.15	13.48	0.046054	3.31	21.82	57.65	1.51

HEC-RAS Plan: 01 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 2	163.6459	tr 50	39.13	11.30	12.23	12.22	12.42	0.014826	2.32	22.13	60.81	0.91
Asta 2	163.6459	tr 100	46.31	11.30	12.29	12.29	12.48	0.013703	2.36	25.97	65.26	0.88
Asta 2	163.6459	tr 200	53.61	11.30	12.33	12.33	12.54	0.014245	2.49	28.56	67.38	0.91
Asta 2	163.6459	tr 500	63.52	11.30	12.38	12.38	12.62	0.014287	2.61	32.36	70.94	0.92
Asta 2	114.9311	tr 50	39.13	10.58	11.60	11.59	11.75	0.010223	2.09	26.47	73.09	0.77
Asta 2	114.9311	tr 100	46.31	10.58	11.63	11.61	11.81	0.011526	2.29	28.87	75.51	0.82
Asta 2	114.9311	tr 200	53.61	10.58	11.65	11.68	11.86	0.013987	2.55	29.93	76.72	0.91
Asta 2	114.9311	tr 500	63.52	10.58	11.70	11.73	11.93	0.014250	2.68	33.78	78.54	0.92
Asta 2	73.29565	tr 50	39.13	10.03	11.07	11.05	11.22	0.016168	2.04	24.70	63.11	0.70
Asta 2	73.29565	tr 100	46.31	10.03	11.15	11.09	11.29	0.012685	1.92	30.02	63.89	0.63
Asta 2	73.29565	tr 200	53.61	10.03	11.23	11.13	11.37	0.010746	1.86	34.93	64.66	0.59
Asta 2	73.29565	tr 500	63.52	10.03	11.33	11.18	11.46	0.009314	1.84	41.15	67.04	0.55

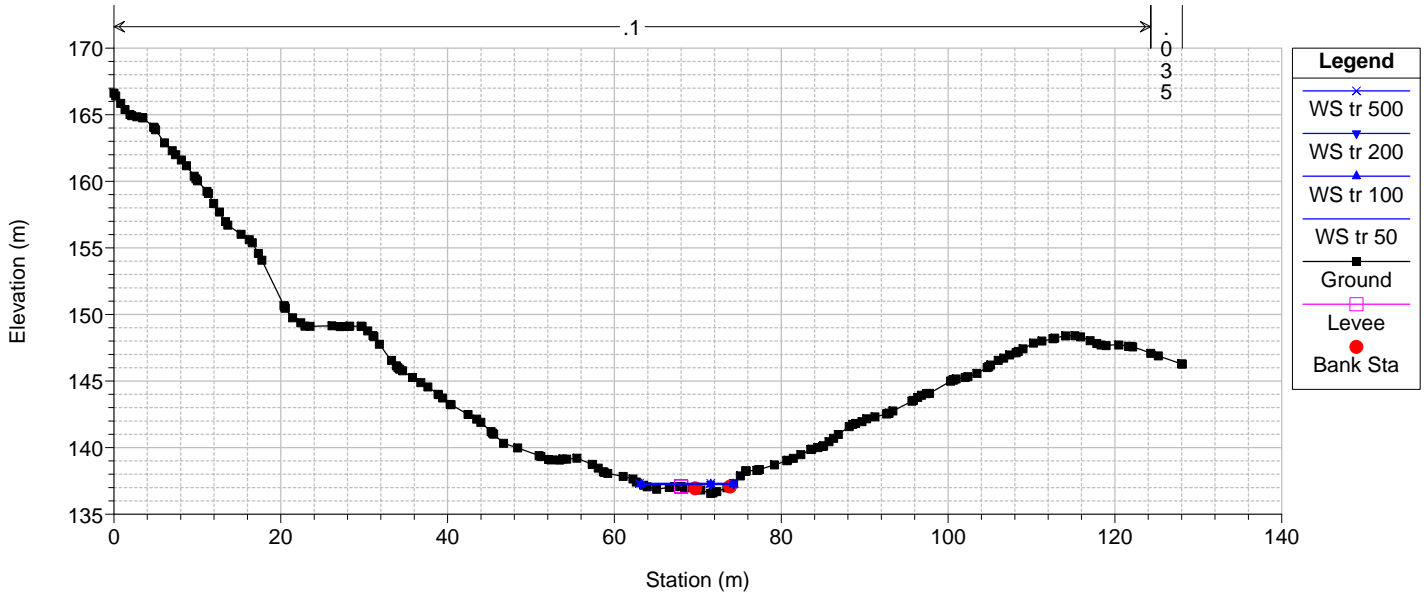
Riu Rocca Branca Asta



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

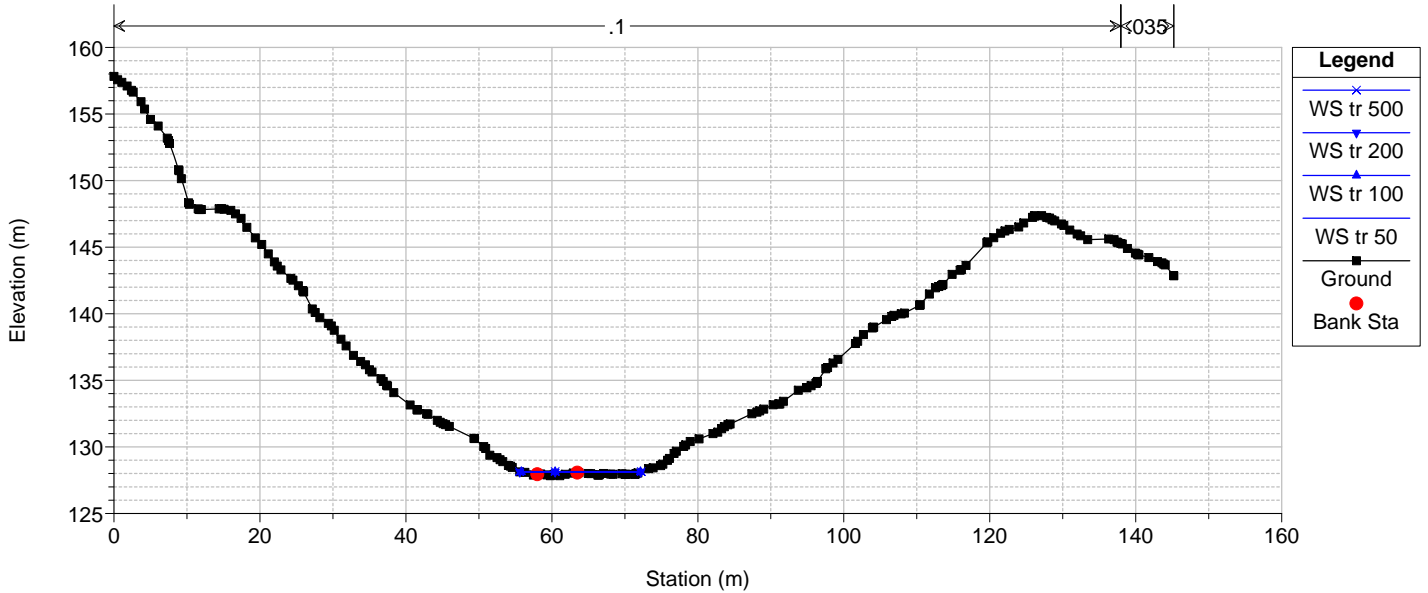
River = Riu Rocca Branca Reach = Asta RS = 942.1268 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

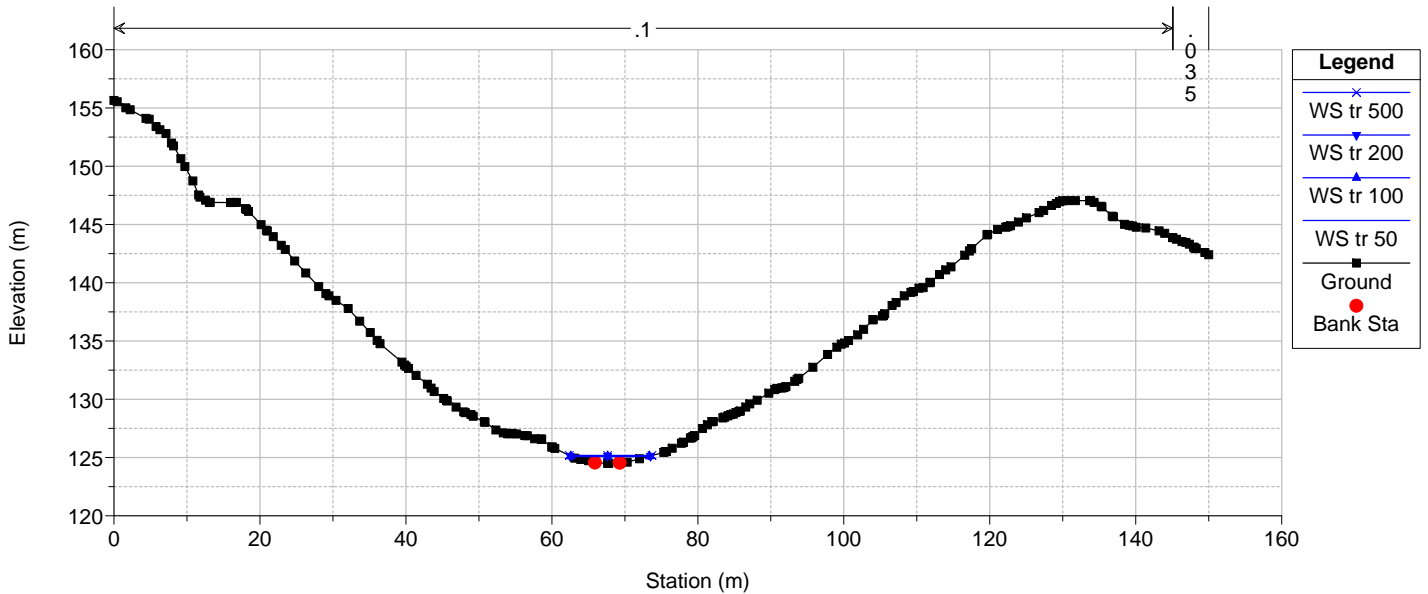
River = Riu Rocca Branca Reach = Asta RS = 910.1096 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

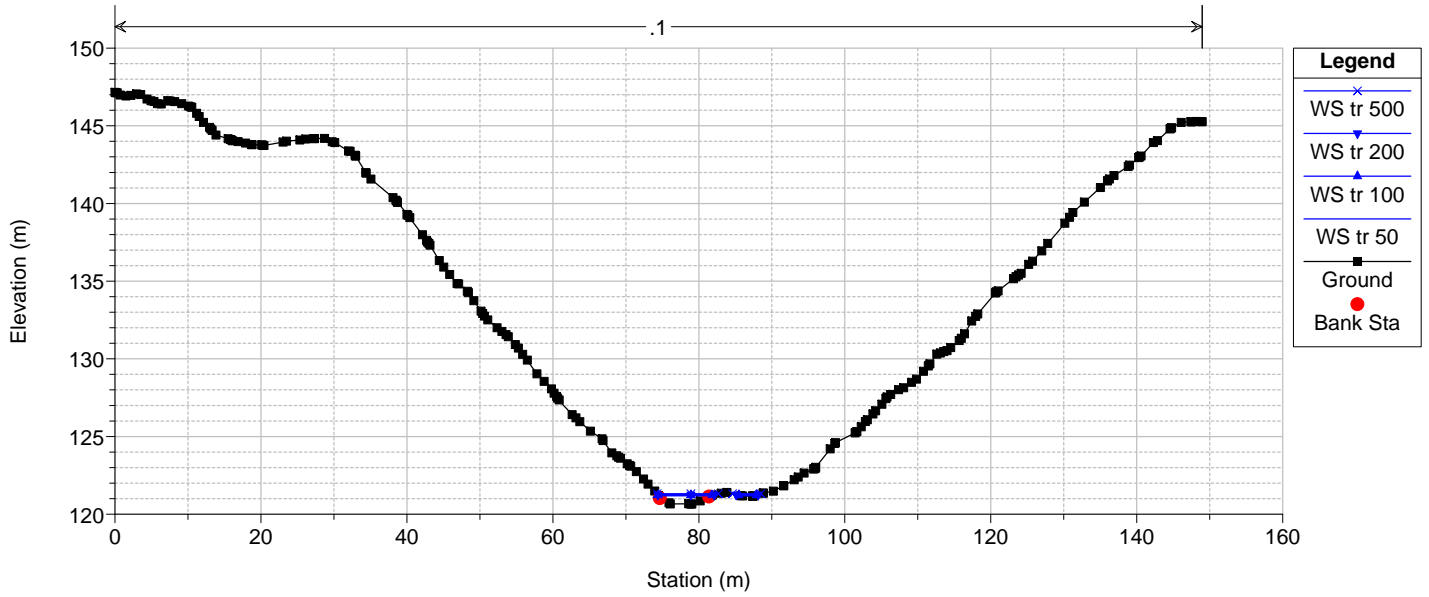
River = Riu Rocca Branca Reach = Asta RS = 900.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

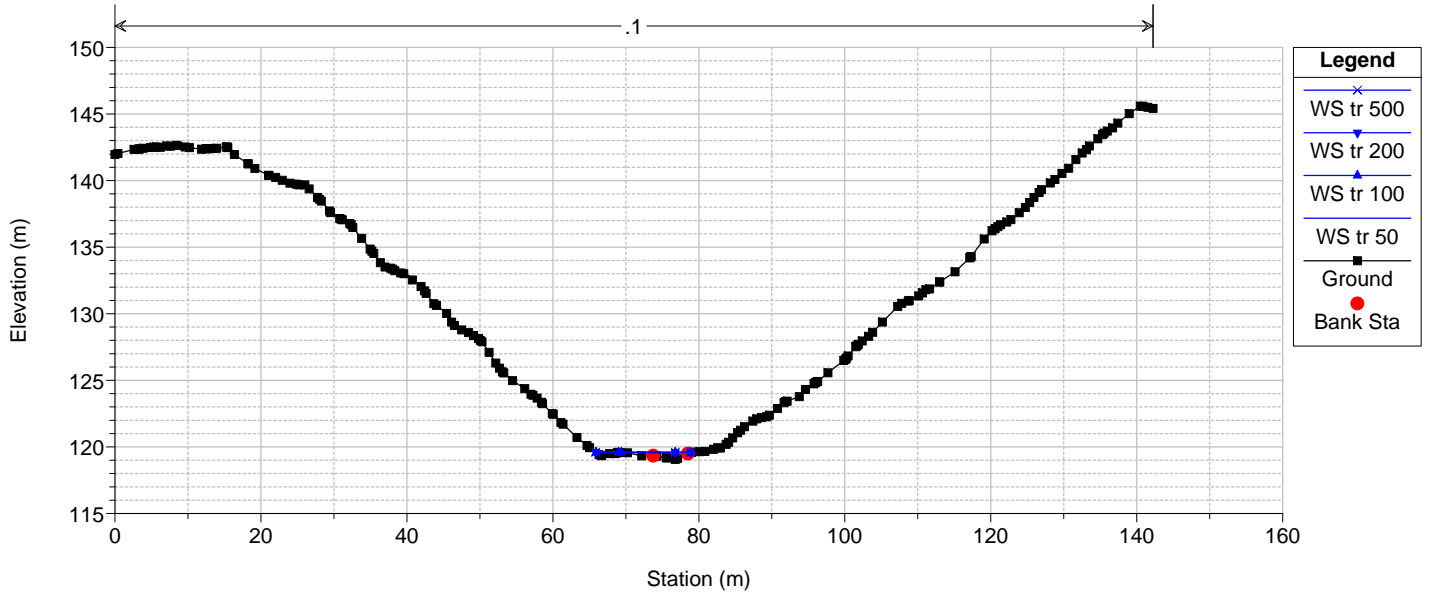
River = Riu Rocca Branca Reach = Asta RS = 880.274 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

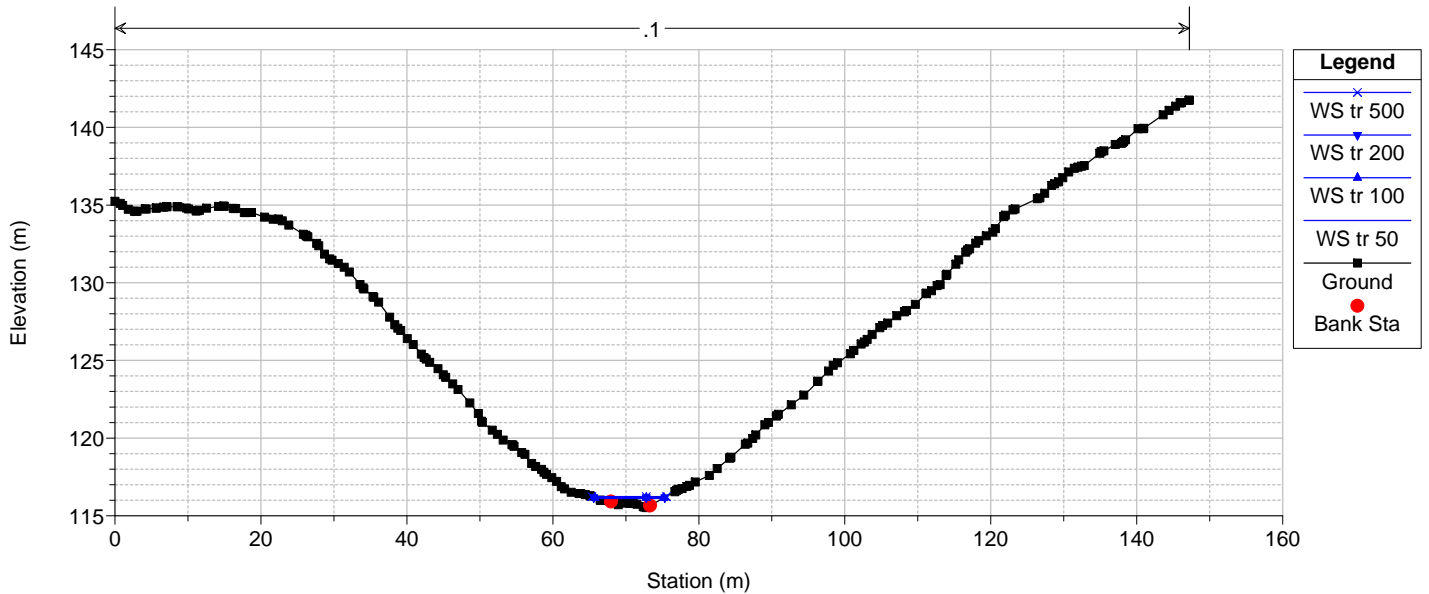
River = Riu Rocca Branca Reach = Asta RS = 871.4203 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

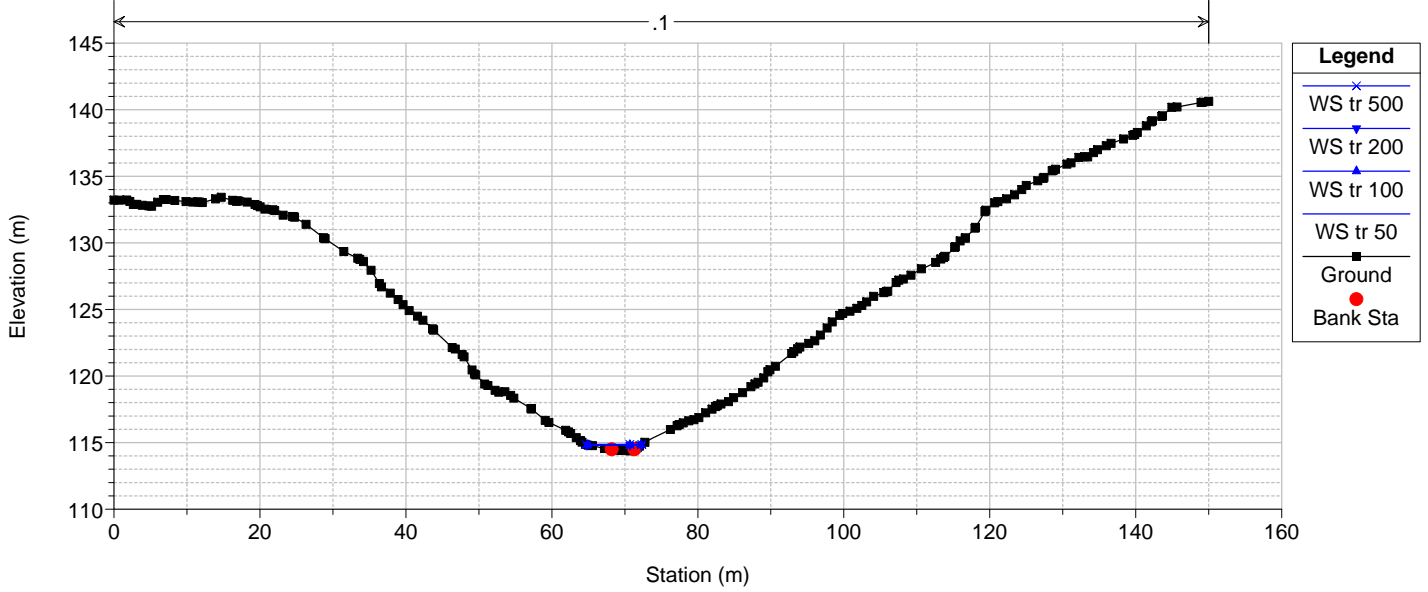
River = Riu Rocca Branca Reach = Asta RS = 853.9749 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

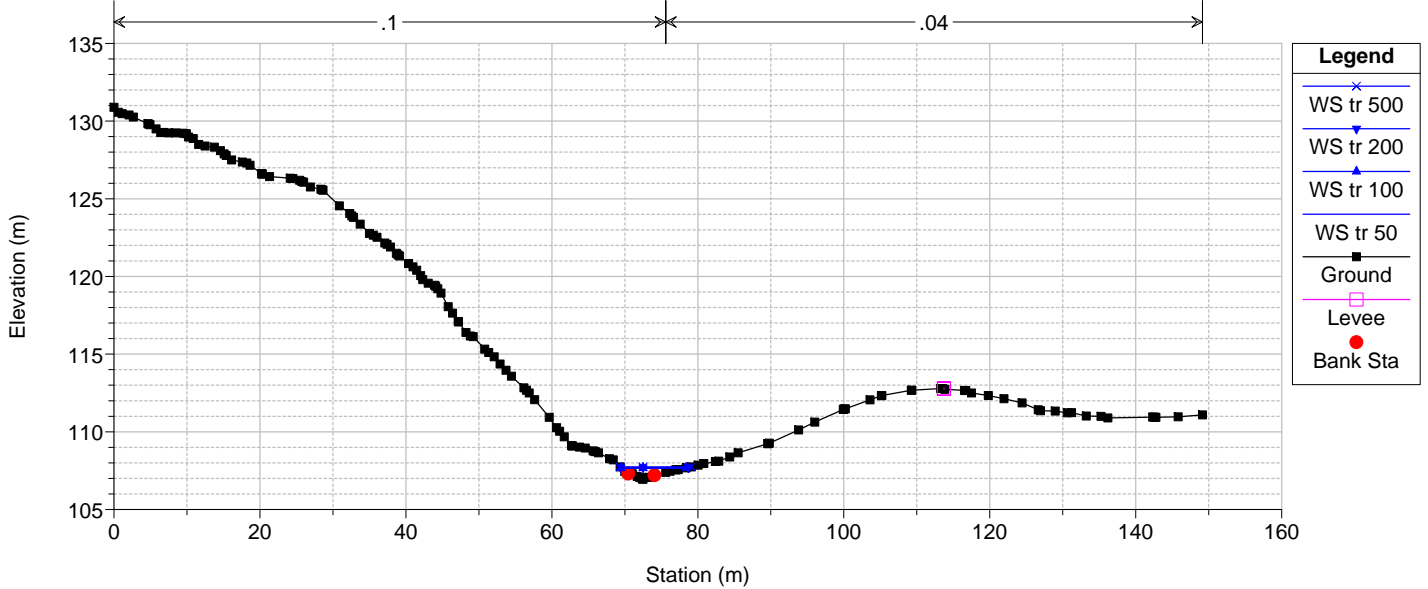
River = Riu Rocca Branca Reach = Asta RS = 850.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

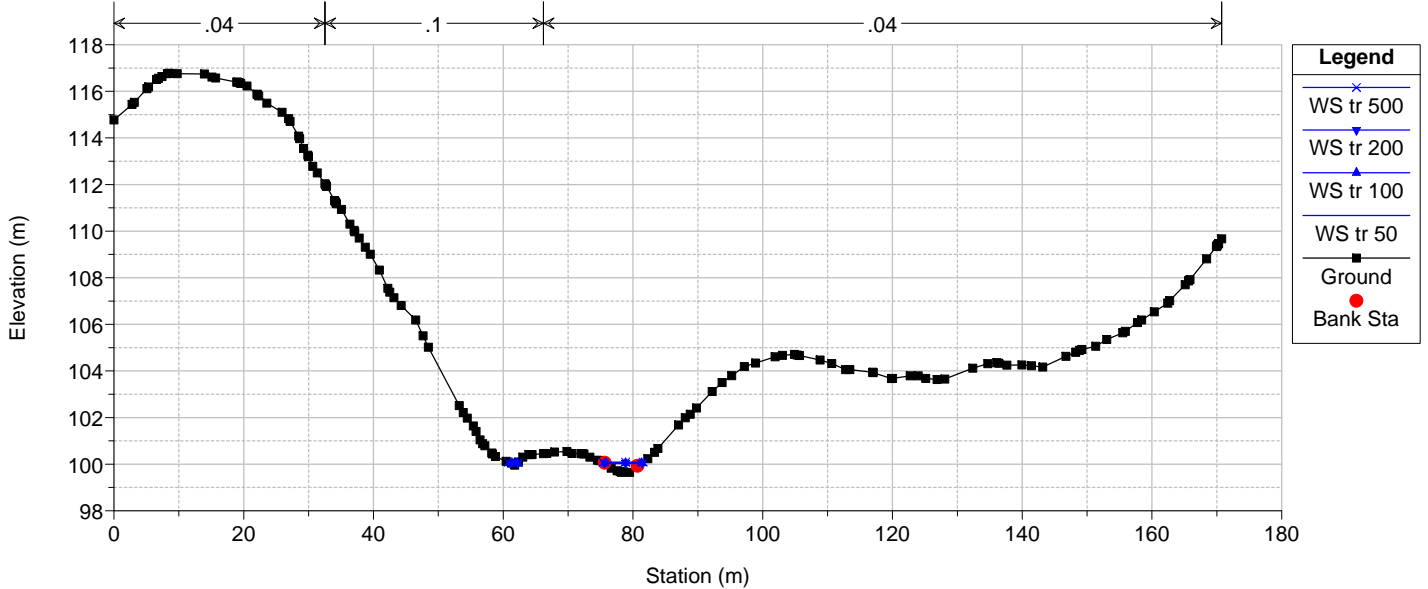
River = Riu Rocca Branca Reach = Asta RS = 807.7919 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

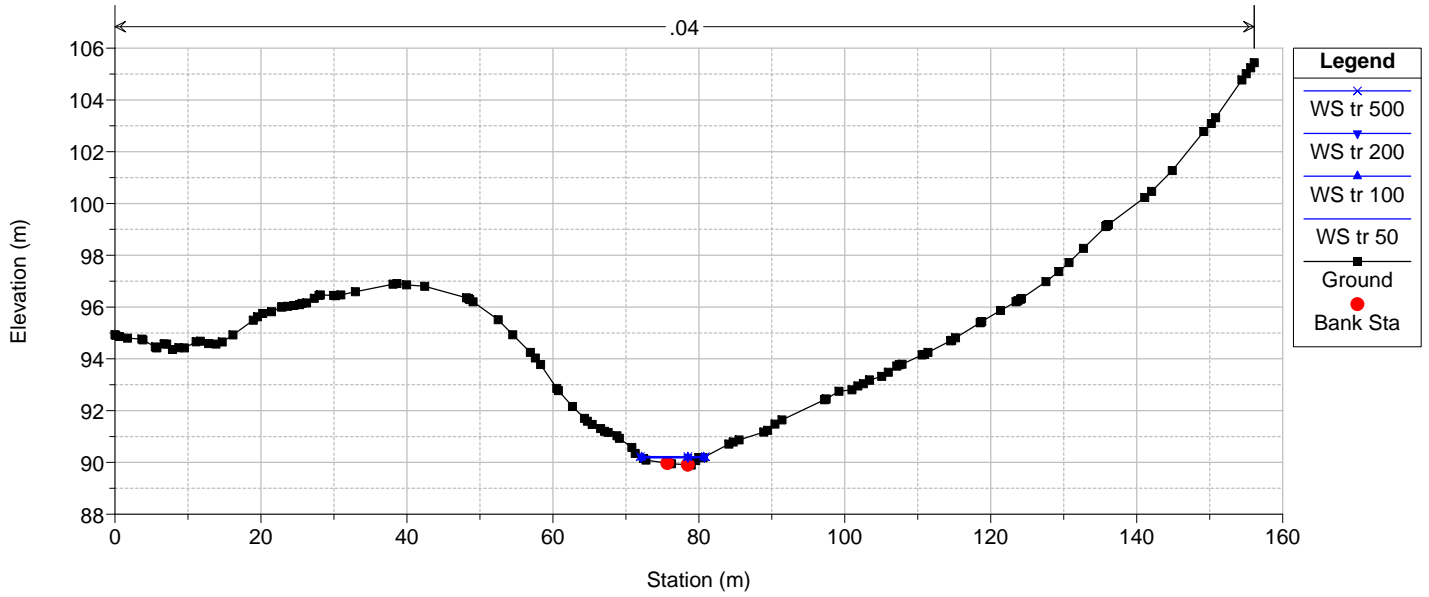
River = Riu Rocca Branca Reach = Asta RS = 749.1511 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

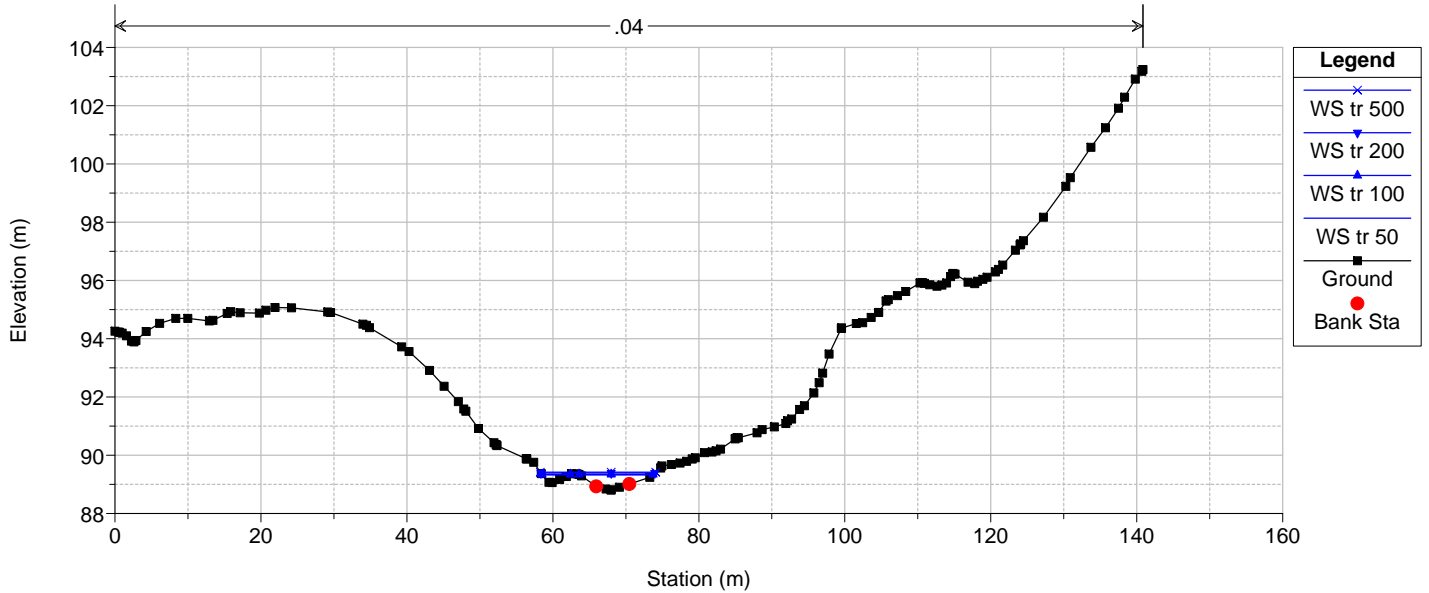
River = Riu Rocca Branca Reach = Asta RS = 694.7131 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

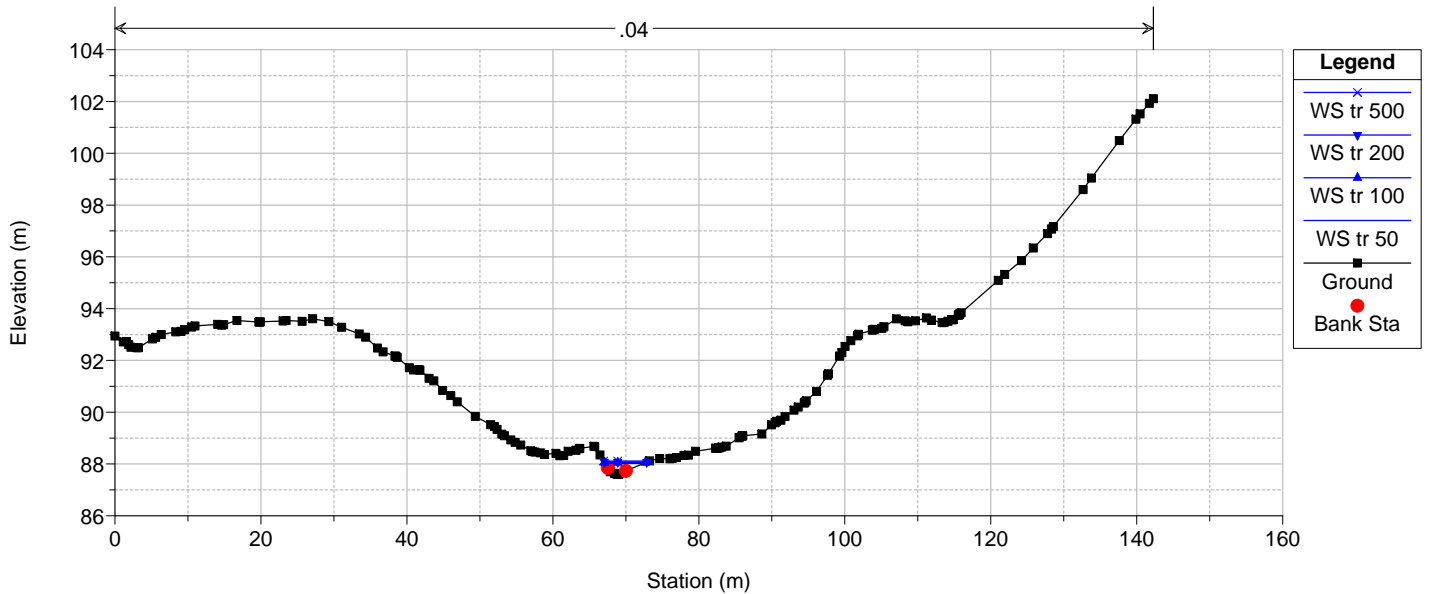
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scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

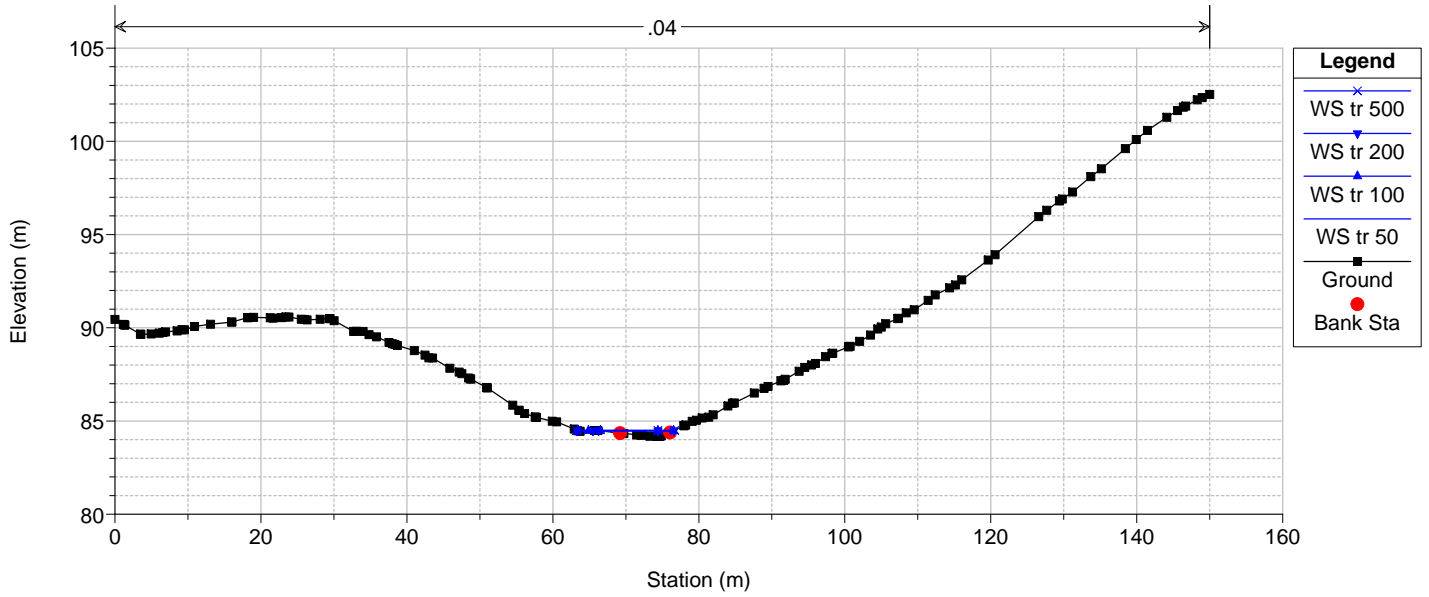
River = Riu Rocca Branca Reach = Asta RS = 676.094 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

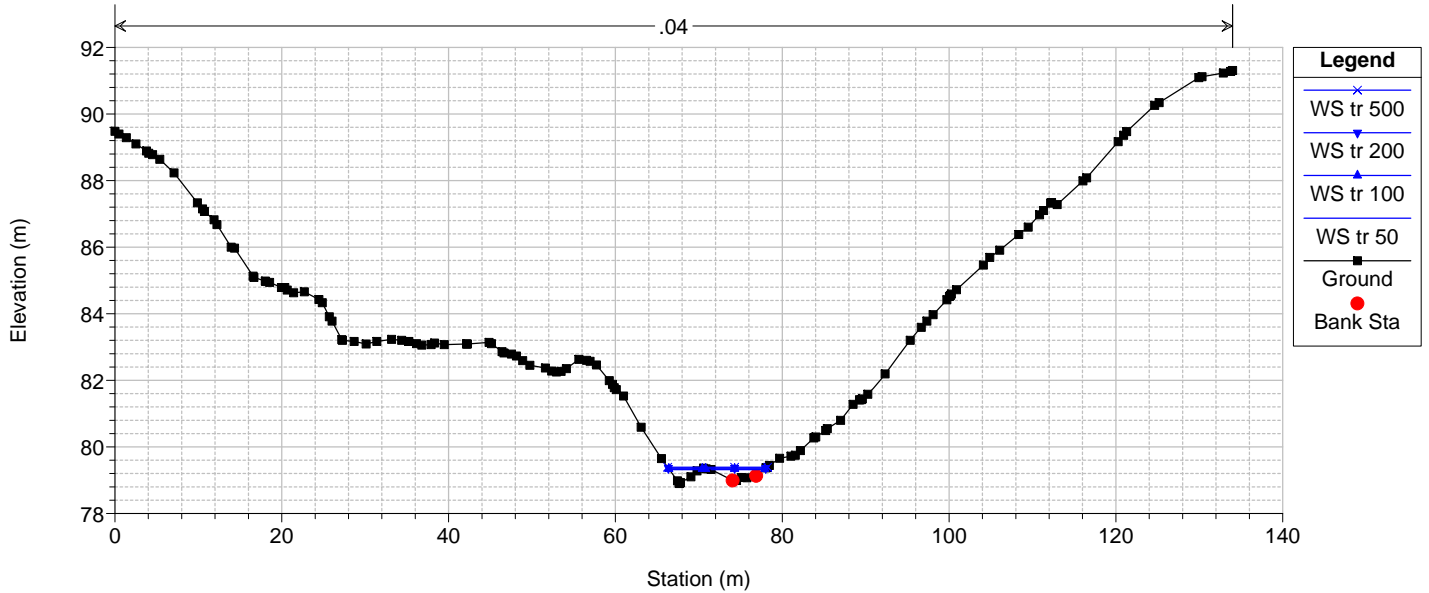
River = Riu Rocca Branca Reach = Asta RS = 650 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

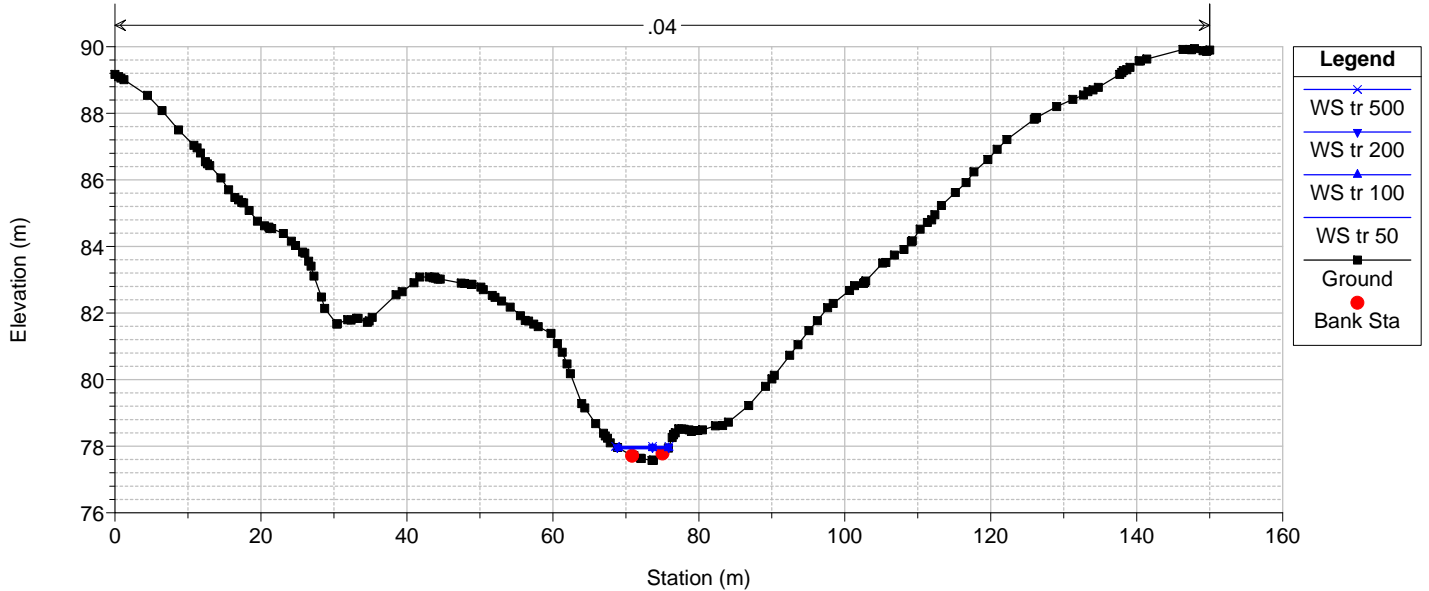
River = Riu Rocca Branca Reach = Asta RS = 608.3212 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

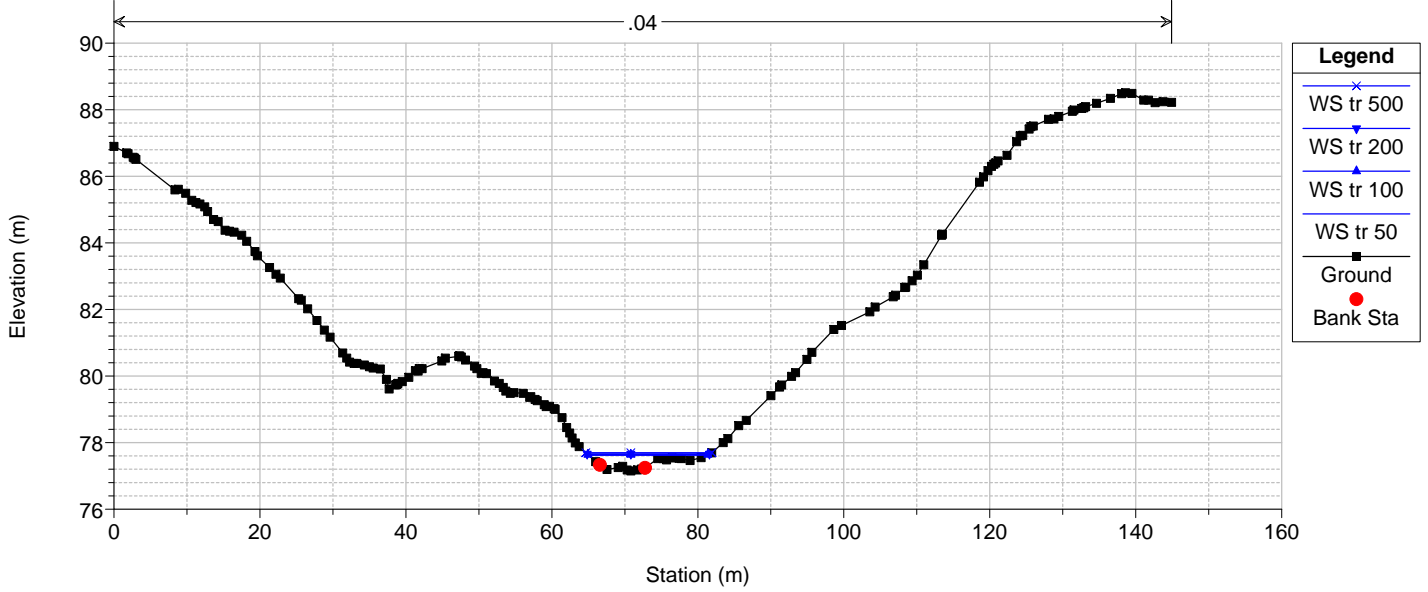
River = Riu Rocca Branca Reach = Asta RS = 600 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

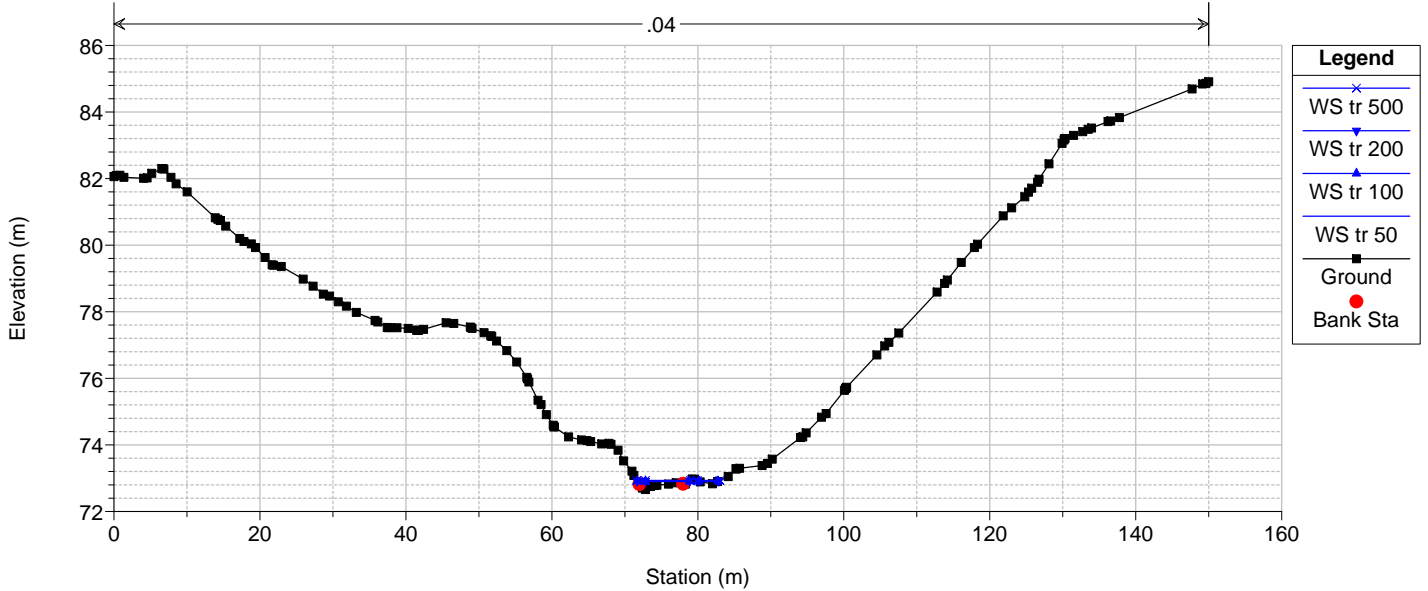
River = Riu Rocca Branca Reach = Asta RS = 592.8657 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

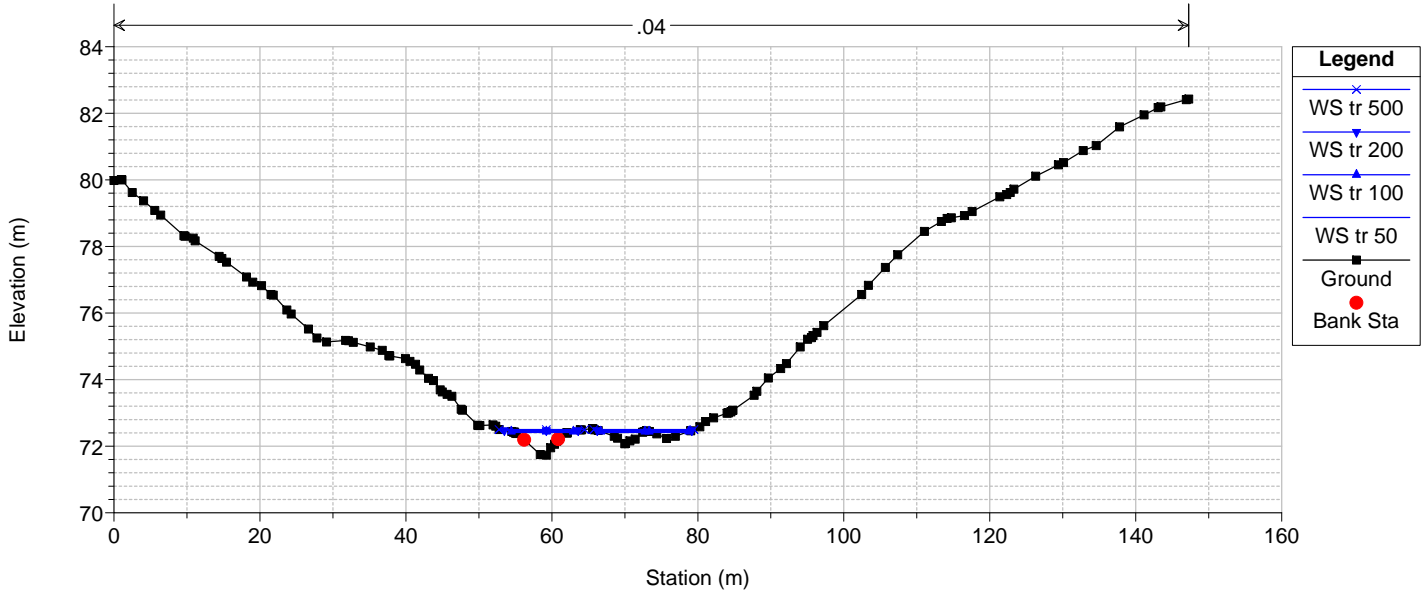
River = Riu Rocca Branca Reach = Asta RS = 550 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

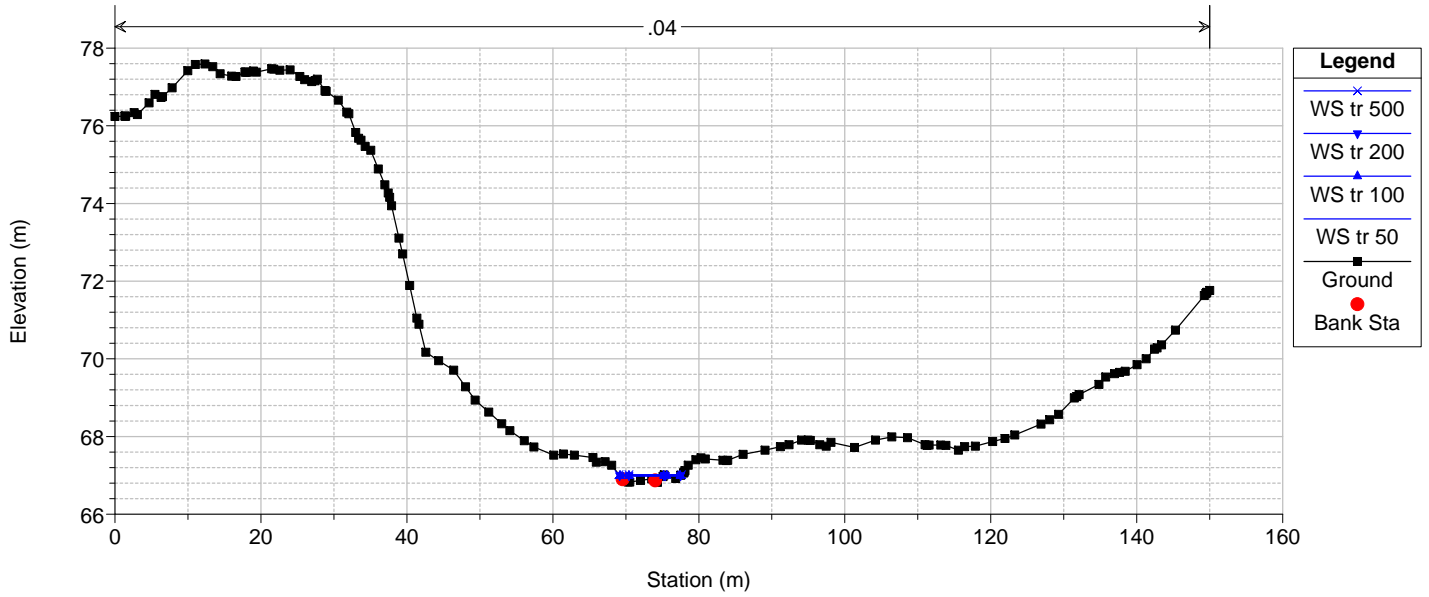
River = Riu Rocca Branca Reach = Asta RS = 540.7116 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

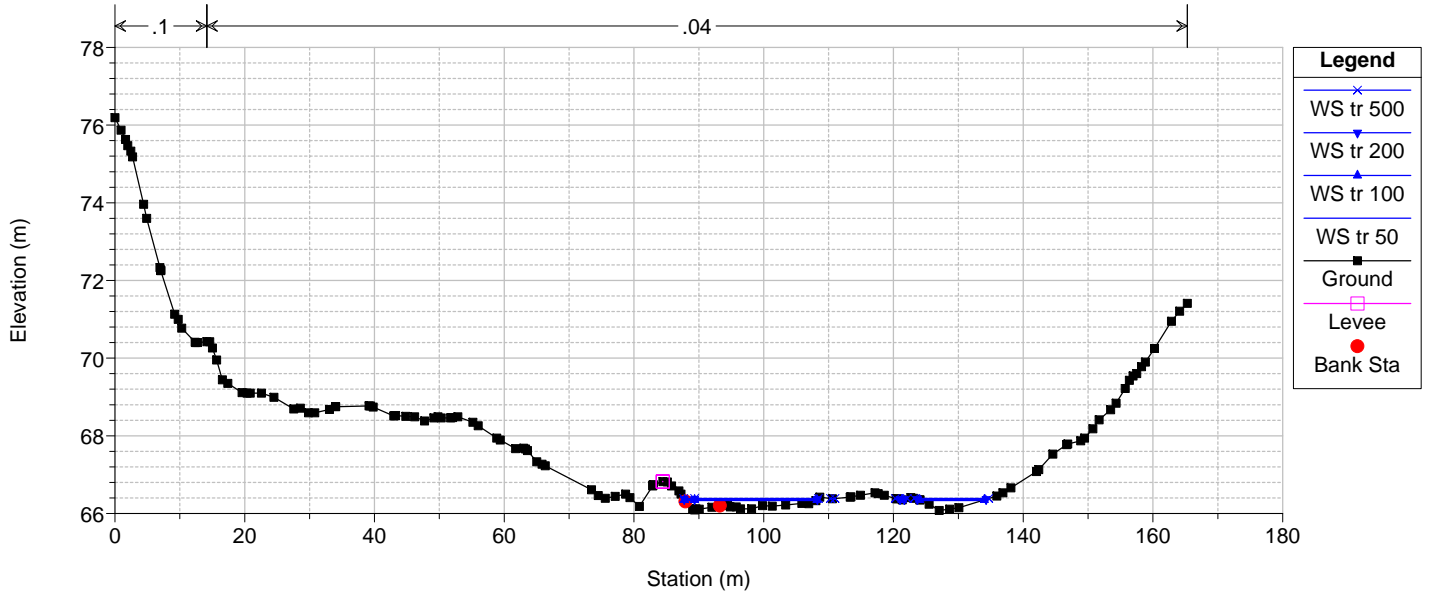
River = Riu Rocca Branca Reach = Asta RS = 500 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

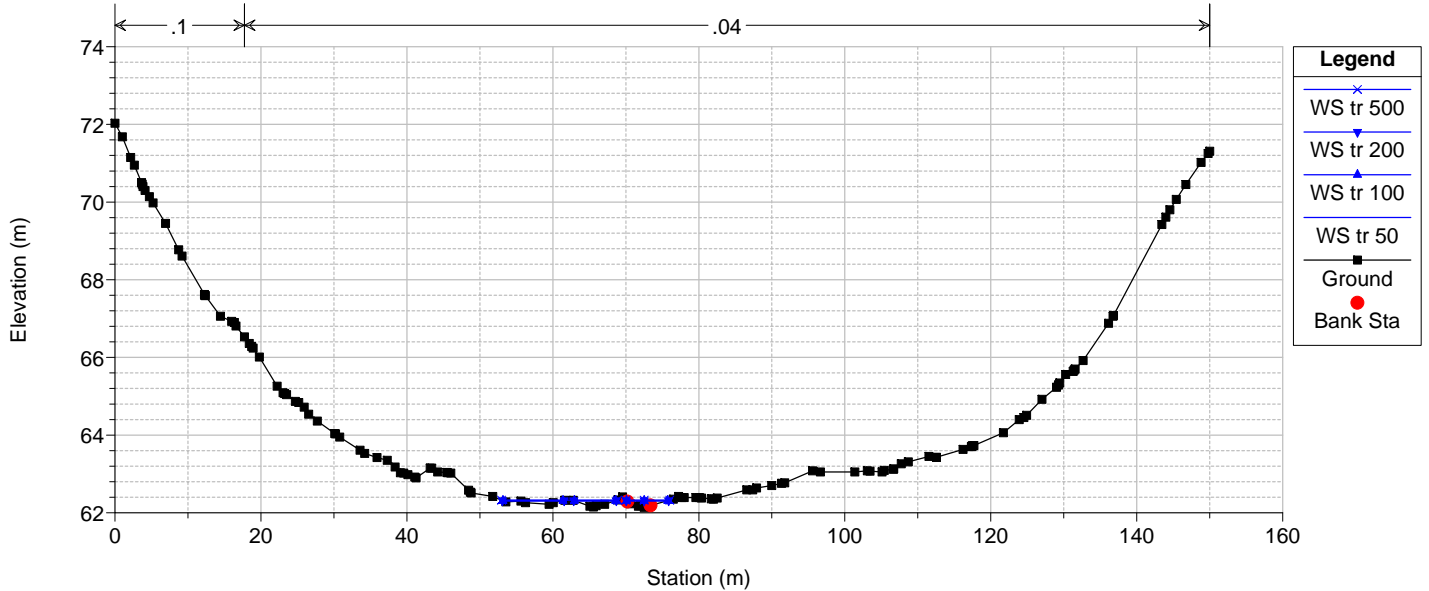
River = Riu Rocca Branca Reach = Asta RS = 487.5676 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

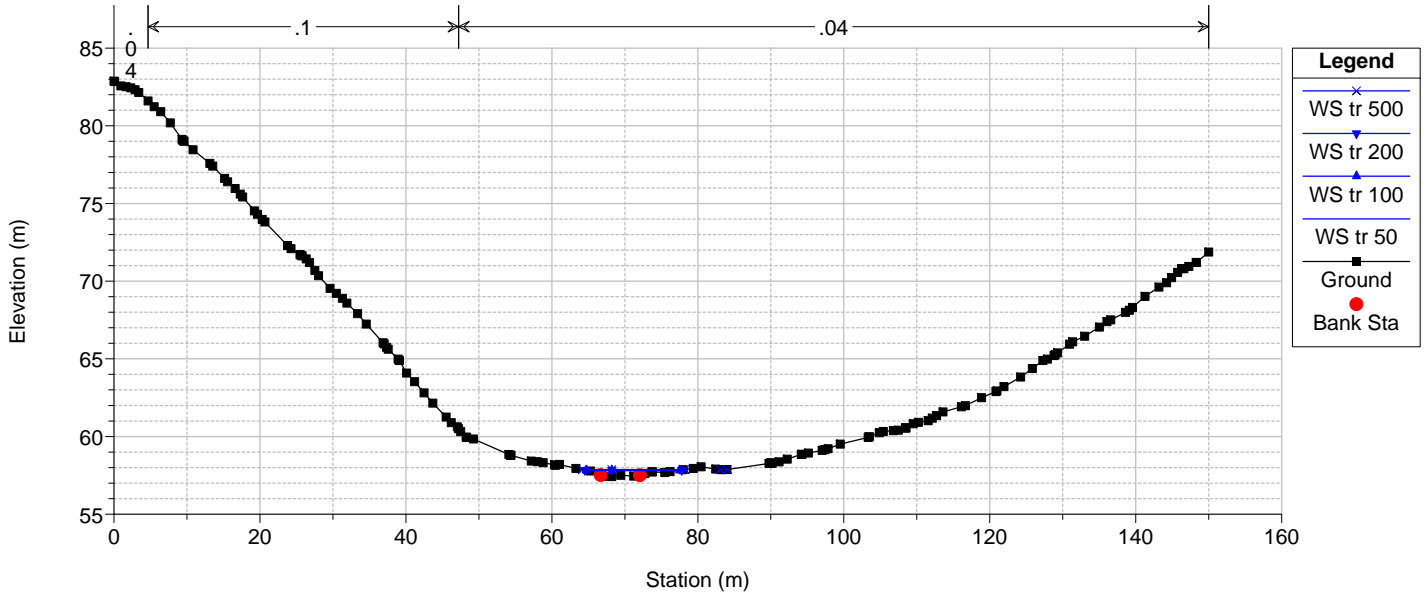
River = Riu Rocca Branca Reach = Asta RS = 450 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

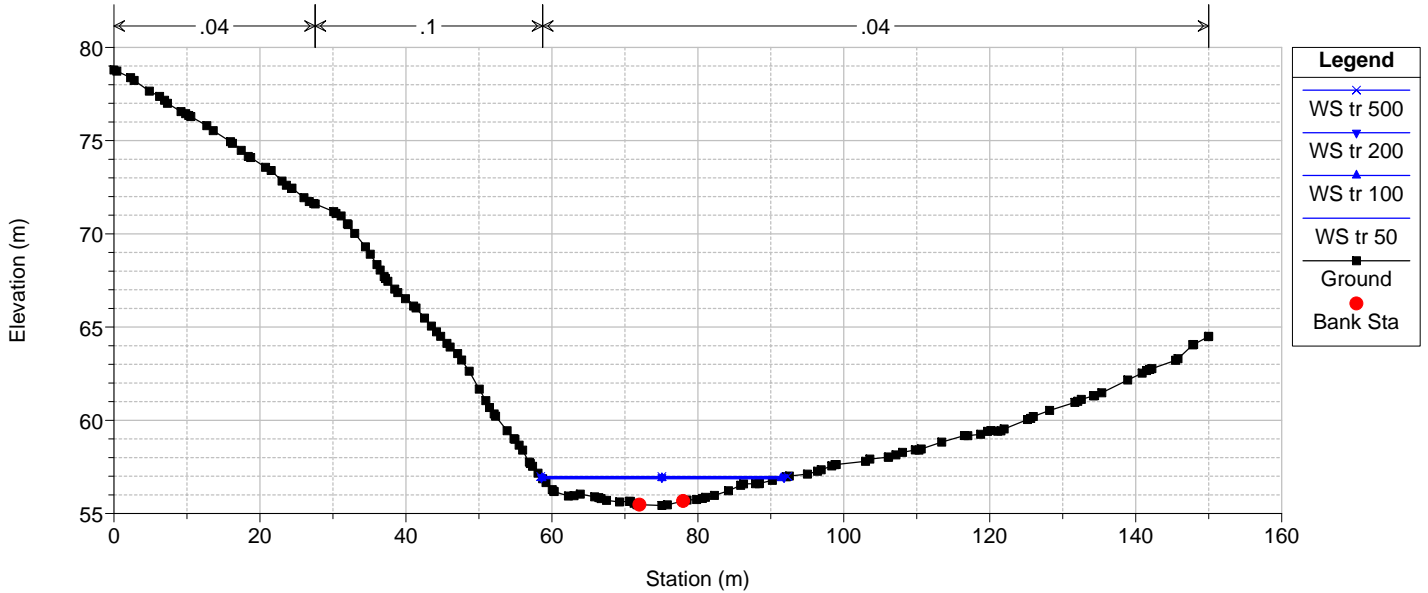
River = Riu Rocca Branca Reach = Asta RS = 399.9999 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

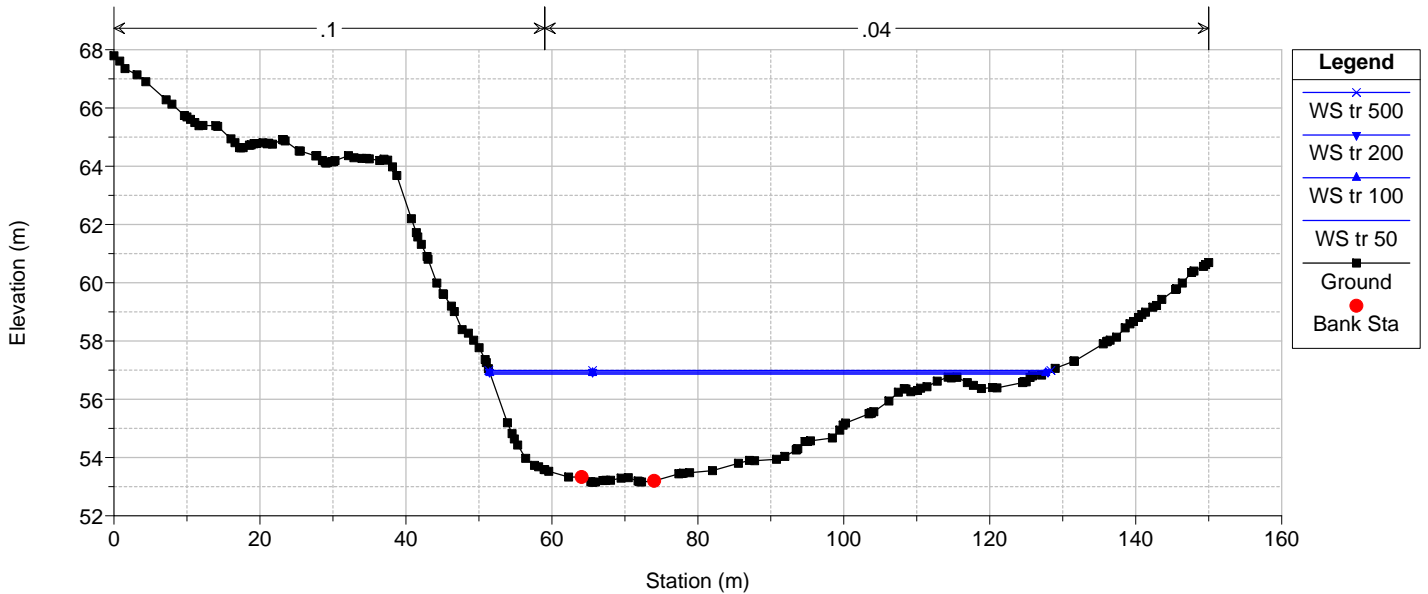
River = Riu Rocca Branca Reach = Asta RS = 349.9999 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

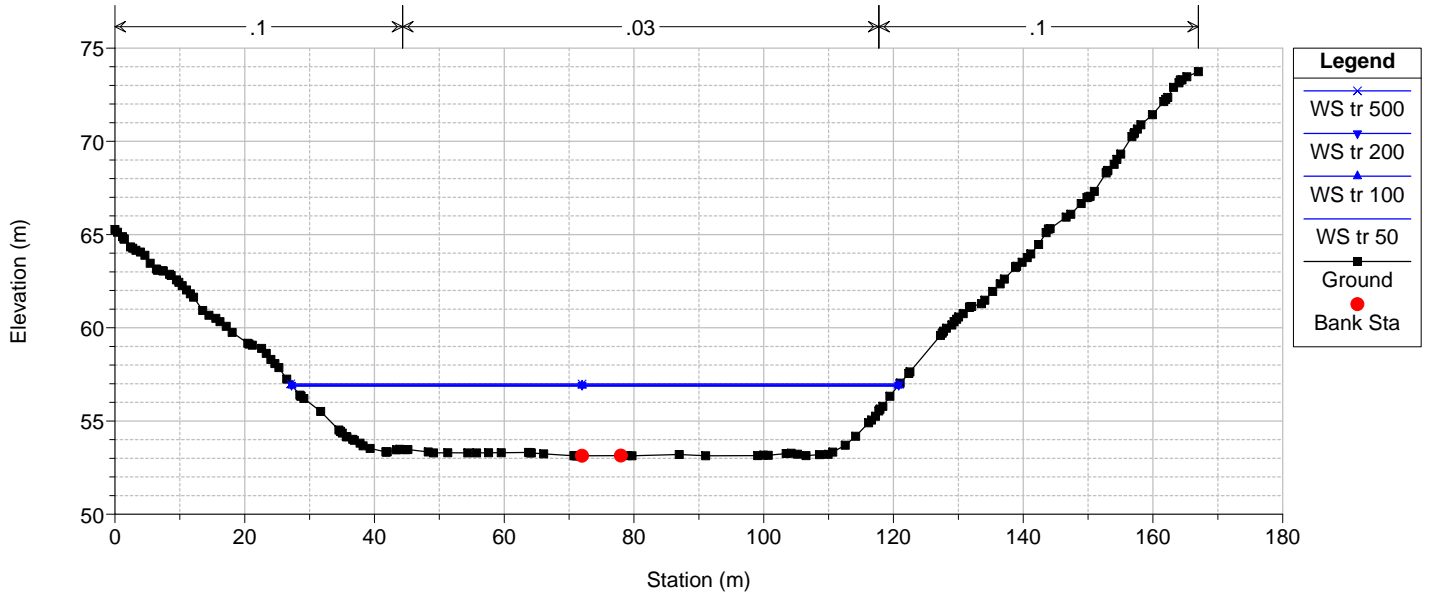
River = Riu Rocca Branca Reach = Asta RS = 300 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

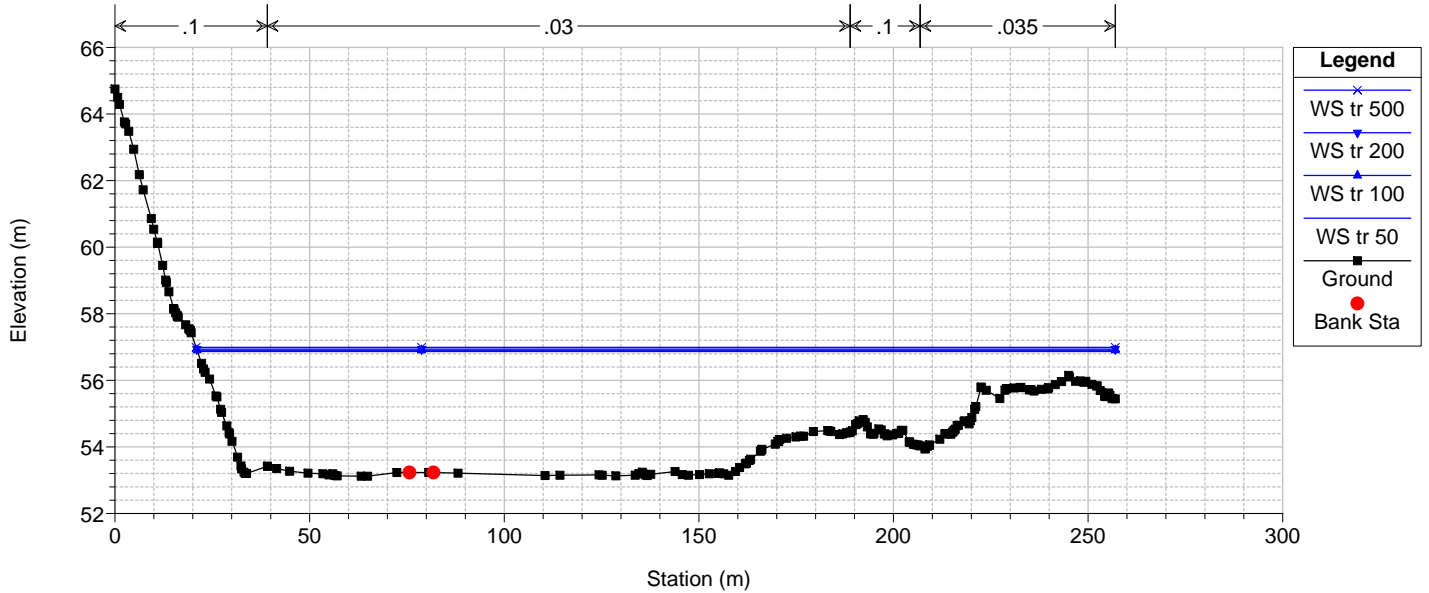
River = Riu Rocca Branca Reach = Asta RS = 250 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

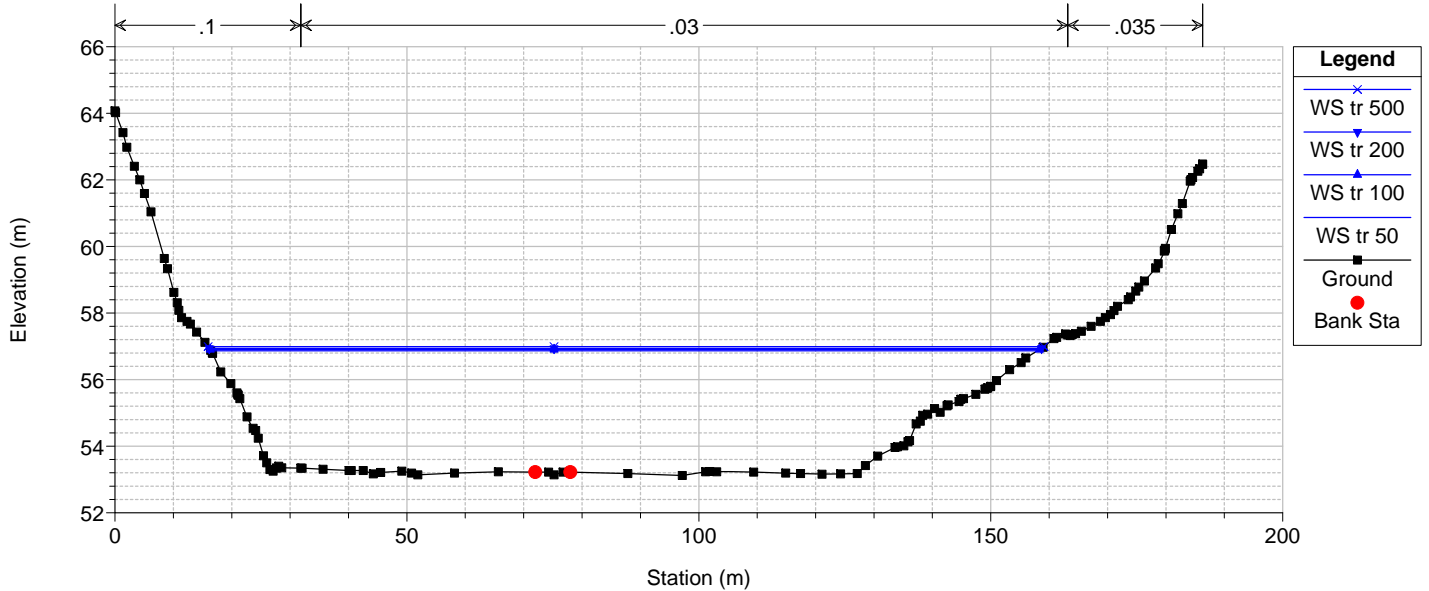
River = Riu Rocca Branca Reach = Asta RS = 219.3106 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

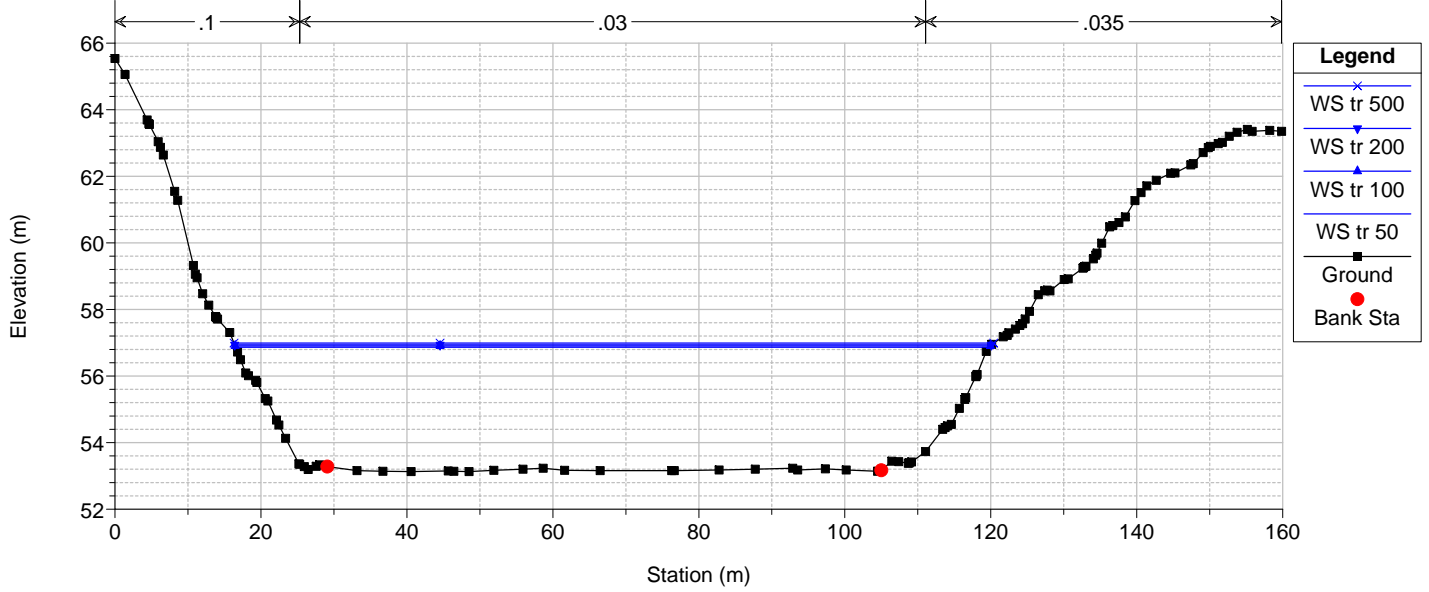
River = Riu Rocca Branca Reach = Asta RS = 200 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

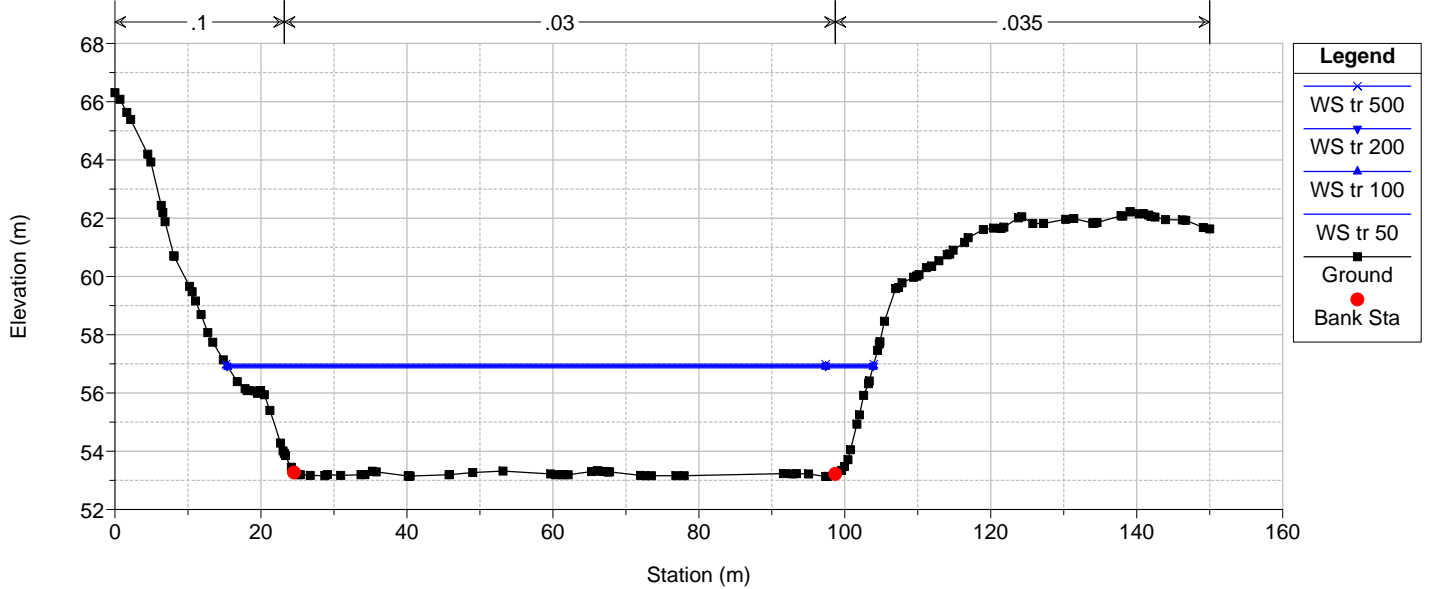
River = Riu Rocca Branca Reach = Asta RS = 174.6301 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

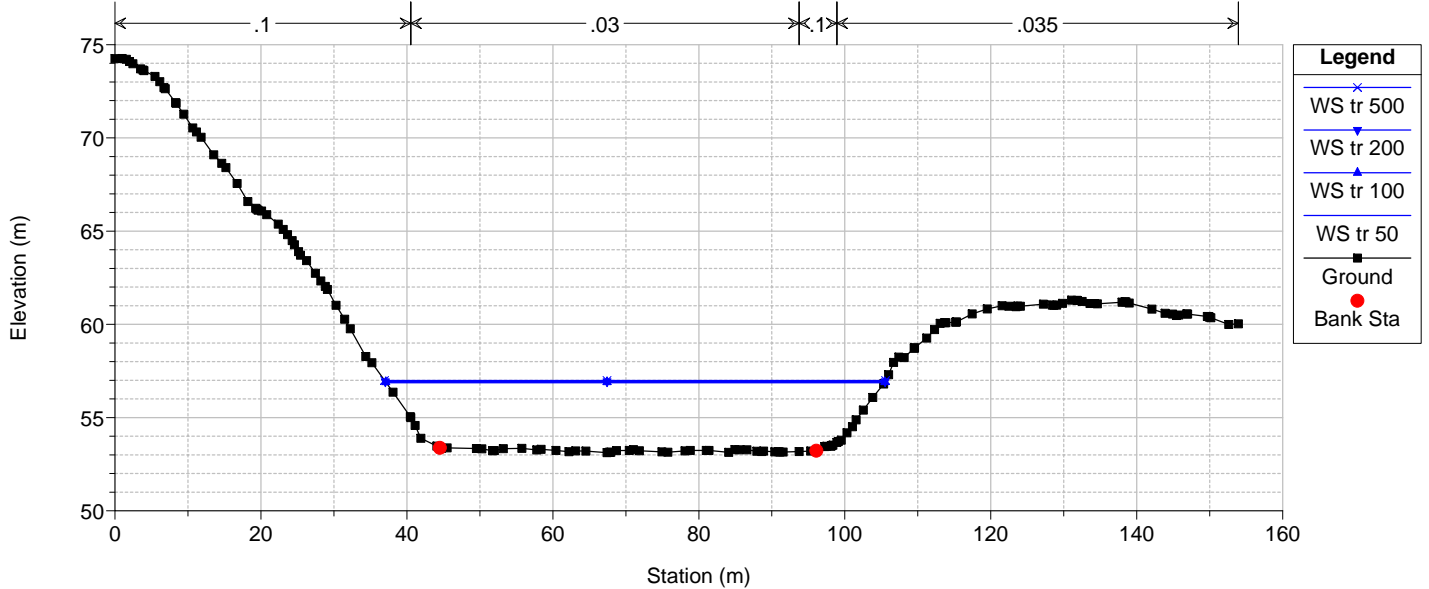
River = Riu Rocca Branca Reach = Asta RS = 150.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

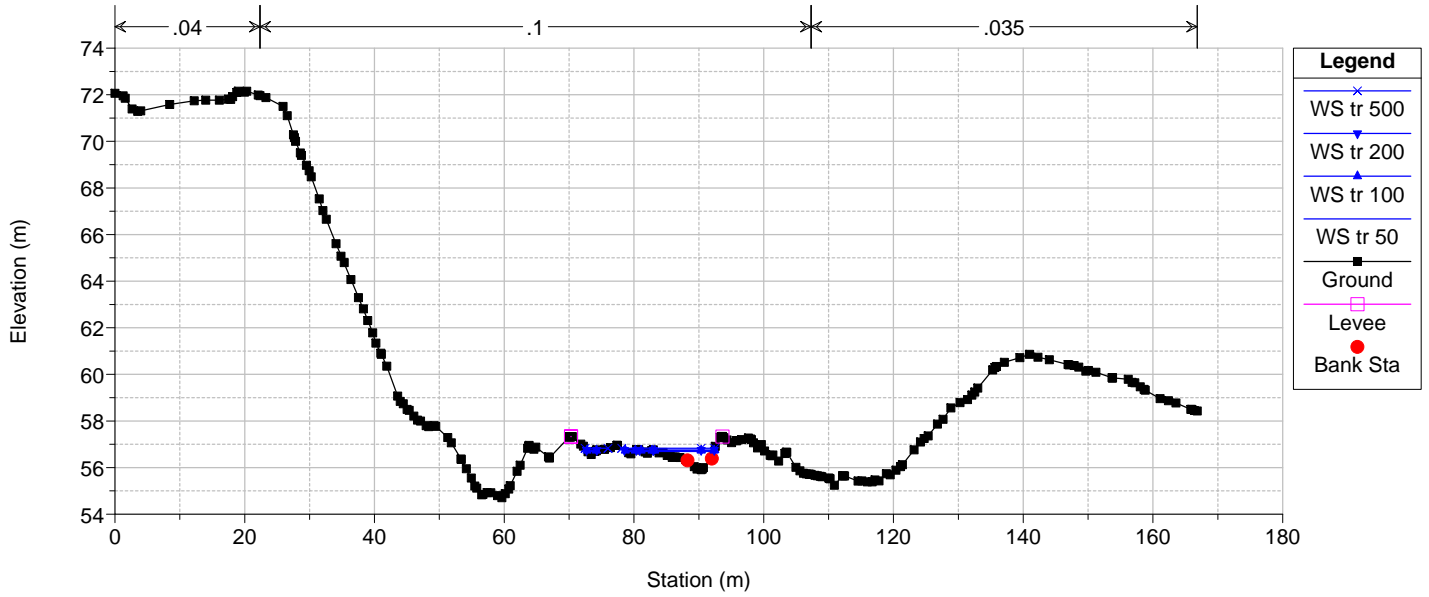
River = Riu Rocca Branca Reach = Asta RS = 131.5227 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

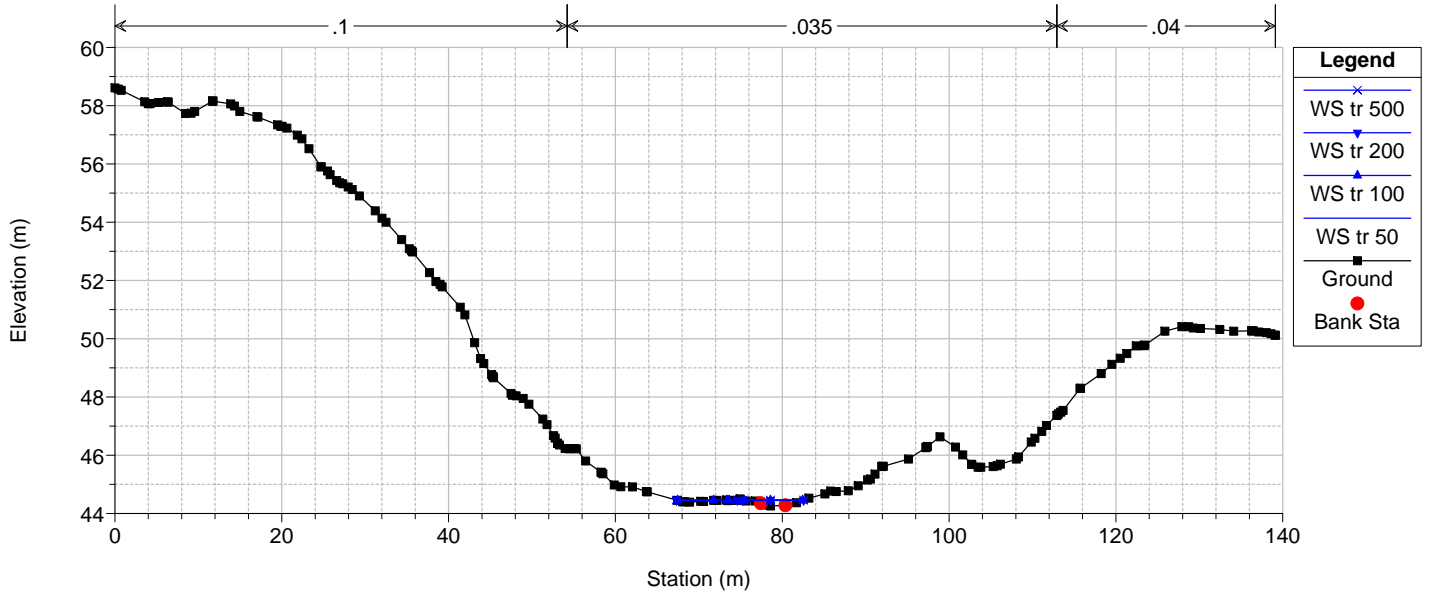
River = Riu Rocca Branca Reach = Asta RS = 108.9649 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

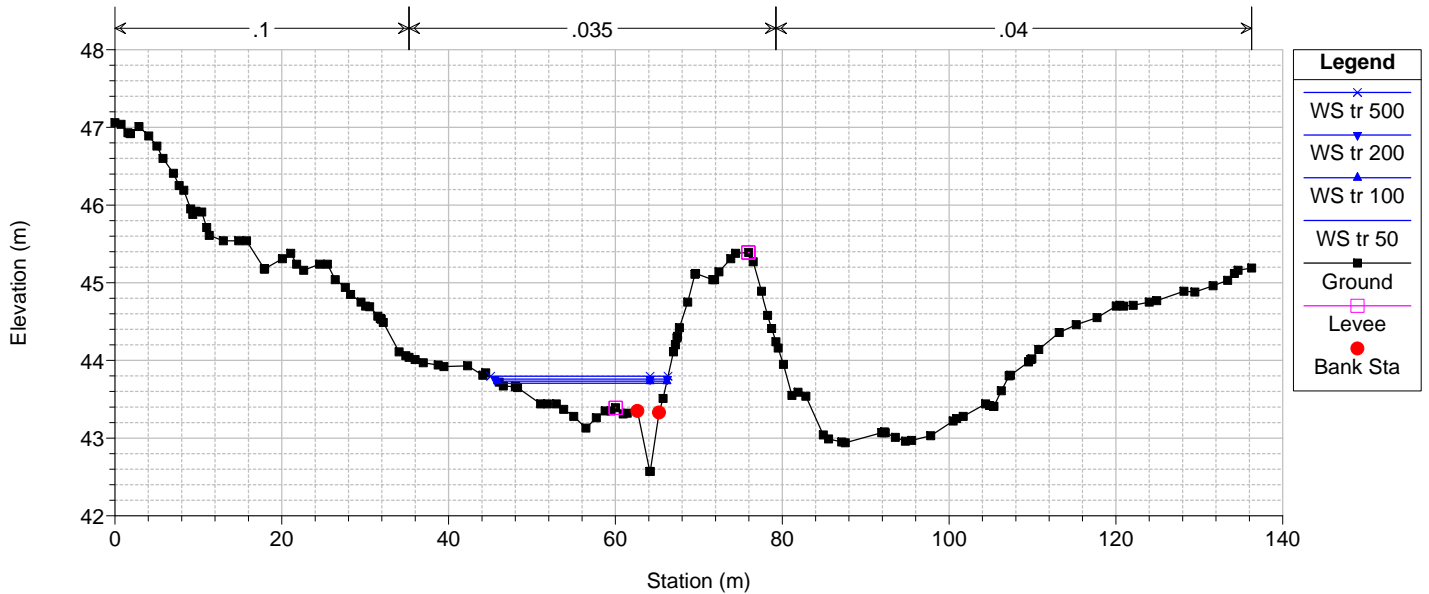
River = Riu Rocca Branca Reach = Asta RS = 55.16639 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

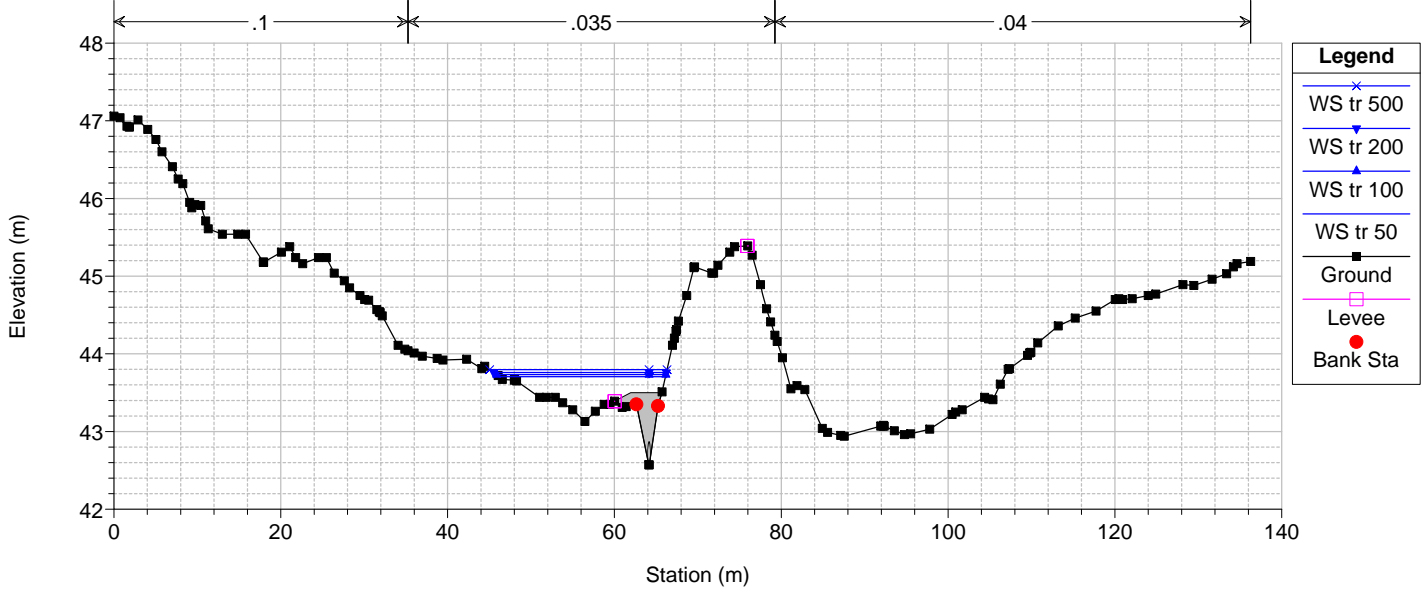
River = Riu Rocca Branca Reach = Asta RS = 34.30606 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

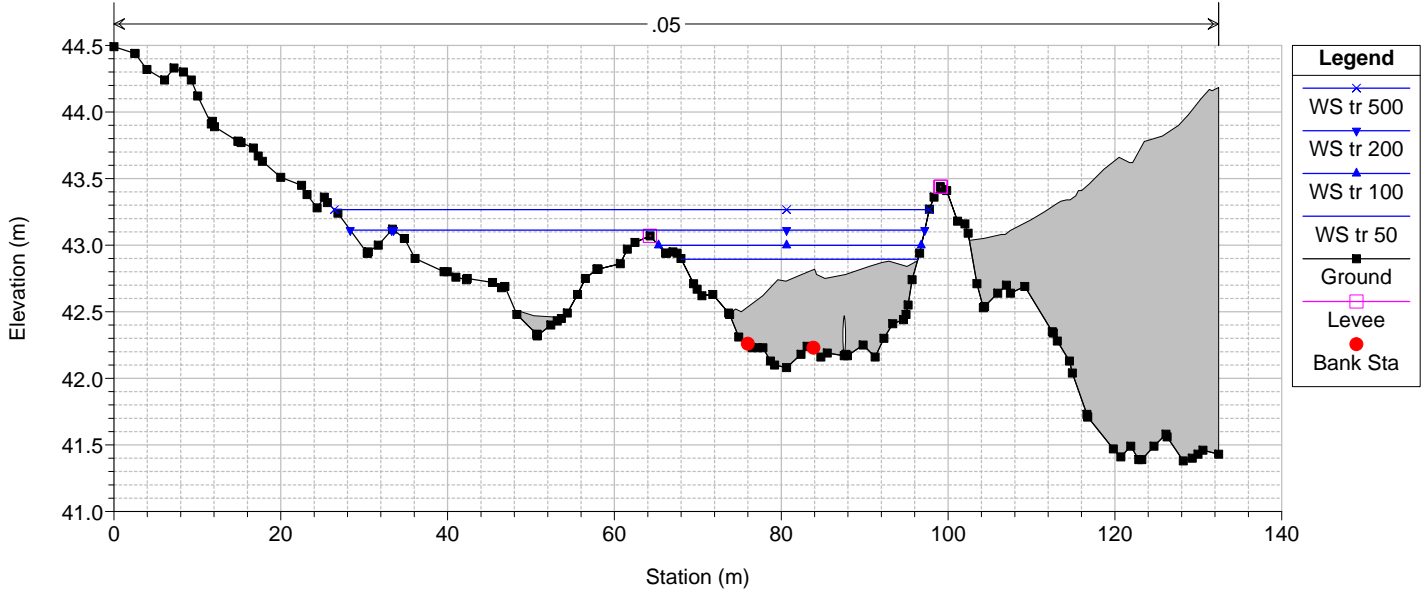
River = Riu Rocca Branca Reach = Asta RS = 24.58033 Culv COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

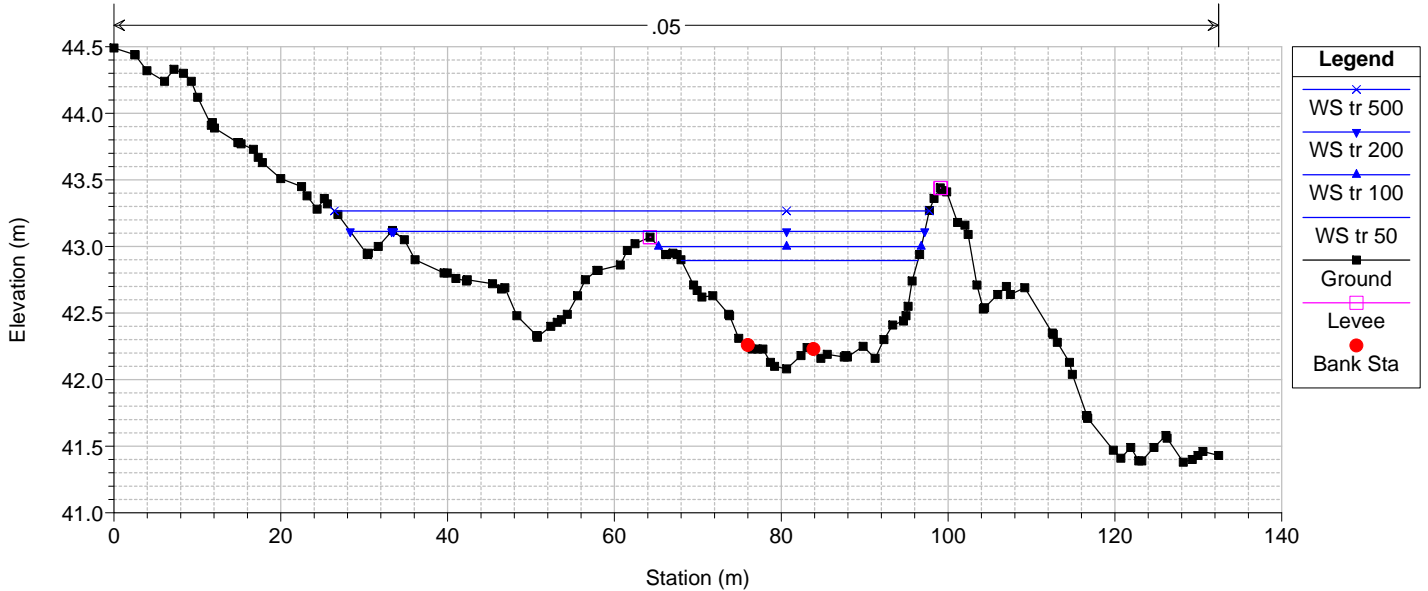
River = Riu Rocca Branca Reach = Asta RS = 24.58033 Culv COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

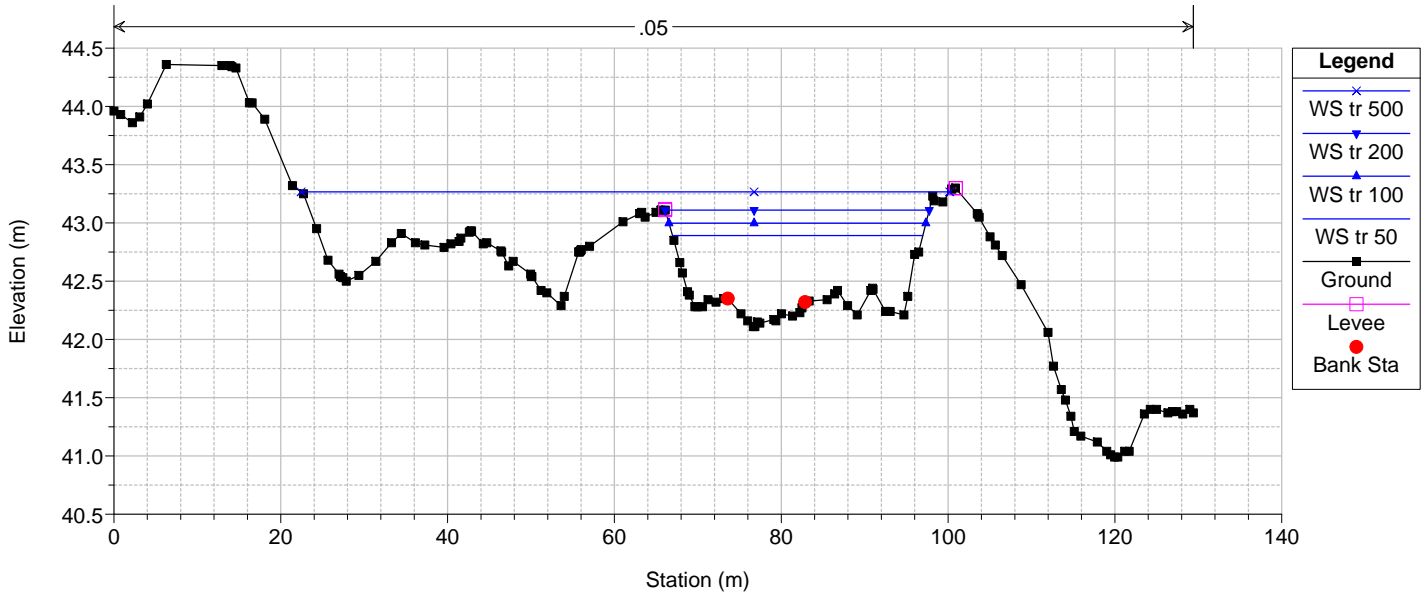
River = Riu Rocca Branca Reach = Asta RS = 14.9541 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

River = Riu Rocca Branca Reach = Asta RS = 9.809073 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	942.1268	tr 50	5.16	136.56	137.23	137.23	137.37	0.106601	1.88	3.29	10.87	0.90
Asta	942.1268	tr 100	5.83	136.56	137.25	137.25	137.41	0.105294	1.94	3.59	11.02	0.90
Asta	942.1268	tr 200	6.54	136.56	137.28	137.28	137.44	0.106586	2.02	3.86	11.16	0.91
Asta	942.1268	tr 500	7.58	136.56	137.31	137.31	137.49	0.105891	2.11	4.27	11.34	0.92
Asta	910.1096	tr 50	5.16	127.84	128.11	128.18	128.36	0.624722	2.48	2.34	16.08	1.88
Asta	910.1096	tr 100	5.83	127.84	128.12	128.20	128.40	0.642750	2.61	2.51	16.31	1.93
Asta	910.1096	tr 200	6.54	127.84	128.13	128.22	128.43	0.624813	2.70	2.73	16.59	1.92
Asta	910.1096	tr 500	7.58	127.84	128.15	128.25	128.49	0.633961	2.85	2.98	16.70	1.96
Asta	900.0001	tr 50	5.16	124.49	125.09	124.99	125.18	0.051017	1.55	4.08	10.55	0.66
Asta	900.0001	tr 100	5.83	124.49	125.12	125.02	125.22	0.054141	1.64	4.36	10.80	0.68
Asta	900.0001	tr 200	6.54	124.49	125.14	125.05	125.26	0.057441	1.74	4.63	11.03	0.71
Asta	900.0001	tr 500	7.58	124.49	125.17	125.09	125.31	0.062312	1.88	5.00	11.34	0.74
Asta	880.274	tr 50	5.16	120.65	121.18	121.18	121.37	0.125872	1.91	2.74	8.84	0.96
Asta	880.274	tr 100	5.83	120.65	121.22	121.22	121.41	0.114287	1.94	3.12	9.72	0.93
Asta	880.274	tr 200	6.54	120.65	121.26	121.26	121.46	0.105009	1.97	3.52	10.73	0.91
Asta	880.274	tr 500	7.58	120.65	121.32	121.32	121.51	0.093988	2.00	4.16	12.29	0.87
Asta	871.4203	tr 50	5.16	119.06	119.57	119.65	119.82	0.256679	2.42	2.56	12.00	1.33
Asta	871.4203	tr 100	5.83	119.06	119.58	119.68	119.87	0.291582	2.63	2.69	12.54	1.43
Asta	871.4203	tr 200	6.54	119.06	119.59	119.70	119.93	0.327009	2.84	2.82	13.00	1.52
Asta	871.4203	tr 500	7.58	119.06	119.60	119.72	120.01	0.380429	3.13	2.97	13.07	1.65
Asta	853.9749	tr 50	5.16	115.53	116.12	116.15	116.32	0.160302	2.10	2.72	9.13	1.08
Asta	853.9749	tr 100	5.83	115.53	116.15	116.18	116.36	0.145722	2.12	3.06	9.45	1.05
Asta	853.9749	tr 200	6.54	115.53	116.19	116.21	116.40	0.135136	2.16	3.40	9.76	1.02
Asta	853.9749	tr 500	7.58	115.53	116.24	116.25	116.45	0.123649	2.21	3.88	10.19	0.99
Asta	850.0001	tr 50	5.16	114.37	114.80	114.95	115.30	0.441577	3.41	1.78	7.02	1.79
Asta	850.0001	tr 100	5.83	114.37	114.82	114.98	115.37	0.465545	3.62	1.91	7.28	1.85
Asta	850.0001	tr 200	6.54	114.37	114.84	115.01	115.44	0.481133	3.79	2.05	7.44	1.90
Asta	850.0001	tr 500	7.58	114.37	114.86	115.06	115.53	0.495265	4.02	2.26	7.67	1.95
Asta	807.7919	tr 50	5.16	106.95	107.65	107.65	107.82	0.092668	1.94	2.88	8.52	0.86
Asta	807.7919	tr 100	5.83	106.95	107.68	107.68	107.86	0.090748	1.99	3.15	8.90	0.86
Asta	807.7919	tr 200	6.54	106.95	107.71	107.72	107.90	0.089705	2.05	3.41	9.27	0.86
Asta	807.7919	tr 500	7.58	106.95	107.74	107.76	107.96	0.088948	2.13	3.77	9.76	0.87
Asta	749.1511	tr 50	5.16	99.65	100.02	100.25	100.84	0.157898	4.01	1.32	6.06	2.51
Asta	749.1511	tr 100	5.83	99.65	100.04	100.28	100.93	0.159581	4.19	1.45	6.46	2.55
Asta	749.1511	tr 200	6.54	99.65	100.06	100.32	101.01	0.159548	4.35	1.58	6.96	2.57
Asta	749.1511	tr 500	7.58	99.65	100.09	100.37	101.14	0.157543	4.58	1.78	7.76	2.59
Asta	694.7131	tr 50	5.16	89.91	90.17	90.37	90.96	0.209379	4.39	1.37	7.64	2.87
Asta	694.7131	tr 100	5.83	89.91	90.19	90.39	91.02	0.206926	4.61	1.53	8.51	2.90
Asta	694.7131	tr 200	6.54	89.91	90.21	90.42	91.10	0.207388	4.79	1.66	8.68	2.93
Asta	694.7131	tr 500	7.58	89.91	90.23	90.46	91.21	0.210937	5.05	1.82	8.92	2.98
Asta	684.4231	tr 50	5.16	88.81	89.32	89.32	89.46	0.016346	1.83	3.54	13.68	0.89
Asta	684.4231	tr 100	5.83	88.81	89.34	89.34	89.49	0.017960	1.96	3.75	14.03	0.93
Asta	684.4231	tr 200	6.54	88.81	89.39	89.39	89.53	0.014269	1.88	4.50	15.61	0.85
Asta	684.4231	tr 500	7.58	88.81	89.42	89.42	89.57	0.014737	1.98	4.94	15.81	0.87
Asta	676.094	tr 50	5.16	87.60	88.02	88.31	89.06	0.157492	4.85	1.23	5.22	2.62
Asta	676.094	tr 100	5.83	87.60	88.05	88.34	89.08	0.141716	4.88	1.41	5.55	2.52
Asta	676.094	tr 200	6.54	87.60	88.07	88.39	89.16	0.138793	5.03	1.54	5.80	2.52
Asta	676.094	tr 500	7.58	87.60	88.12	88.42	89.20	0.124378	5.08	1.80	6.24	2.43
Asta	650	tr 50	5.16	84.17	84.46	84.61	85.01	0.141270	3.35	1.64	10.71	2.31
Asta	650	tr 100	5.83	84.17	84.47	84.63	85.10	0.153884	3.60	1.75	11.53	2.43
Asta	650	tr 200	6.54	84.17	84.49	84.65	85.17	0.157867	3.78	1.90	12.50	2.49
Asta	650	tr 500	7.58	84.17	84.50	84.68	85.31	0.173124	4.11	2.08	13.41	2.63
Asta	608.3212	tr 50	5.16	78.99	79.32	79.43	79.67	0.084120	2.92	2.02	10.00	1.84
Asta	608.3212	tr 100	5.83	78.99	79.34	79.45	79.70	0.079777	3.03	2.29	11.11	1.82
Asta	608.3212	tr 200	6.54	78.99	79.36	79.48	79.74	0.078894	3.16	2.52	11.68	1.83
Asta	608.3212	tr 500	7.58	78.99	79.39	79.51	79.79	0.075377	3.26	2.82	11.98	1.82
Asta	600	tr 50	5.16	77.57	77.92	78.13	78.71	0.149164	4.08	1.38	6.57	2.48
Asta	600	tr 100	5.83	77.57	77.94	78.16	78.78	0.144656	4.22	1.52	6.83	2.47
Asta	600	tr 200	6.54	77.57	77.97	78.19	78.84	0.138507	4.33	1.68	7.03	2.45
Asta	600	tr 500	7.58	77.57	78.00	78.24	78.92	0.132489	4.49	1.89	7.30	2.43
Asta	592.8657	tr 50	5.16	77.15	77.62	77.62	77.74	0.014825	1.65	3.81	16.12	0.83
Asta	592.8657	tr 100	5.83	77.15	77.64	77.64	77.77	0.015072	1.72	4.15	16.44	0.85
Asta	592.8657	tr 200	6.54	77.15	77.66	77.66	77.79	0.015259	1.79	4.49	16.76	0.86
Asta	592.8657	tr 500	7.58	77.15	77.70	77.70	77.83	0.014691	1.85	5.08	17.25	0.85
Asta	550	tr 50	5.16	72.66	72.90	73.12	75.39	1.669171	7.26	0.78	9.46	7.08
Asta	550	tr 100	5.83	72.66	72.91	73.14	75.41	1.495767	7.31	0.88	9.76	6.81
Asta	550	tr 200	6.54	72.66	72.92	73.16	75.43	1.356274	7.37	0.98	10.06	6.58

HEC-RAS Plan: 01 River: Riu Rocca Branca Reach: Asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	14.9541	tr 50	5.16	42.08	42.89	42.40	42.90	0.000542	0.38	15.76	28.36	0.14
Asta	14.9541	tr 100	5.83	42.08	43.00	42.42	43.00	0.000420	0.36	18.90	31.50	0.13
Asta	14.9541	tr 200	6.54	42.08	43.11	42.44	43.12	0.000177	0.26	34.66	68.63	0.08
Asta	14.9541	tr 500	7.58	42.08	43.27	42.47	43.27	0.000113	0.23	45.38	71.31	0.07
Asta	9.809073	tr 50	5.16	42.11	42.89	42.44	42.90	0.000474	0.34	17.12	30.01	0.13
Asta	9.809073	tr 100	5.83	42.11	43.00	42.46	43.00	0.000354	0.32	20.33	30.80	0.12
Asta	9.809073	tr 200	6.54	42.11	43.11	42.47	43.11	0.000272	0.31	23.84	31.67	0.10
Asta	9.809073	tr 500	7.58	42.11	43.27	42.49	43.27	0.000094	0.20	50.37	77.78	0.06

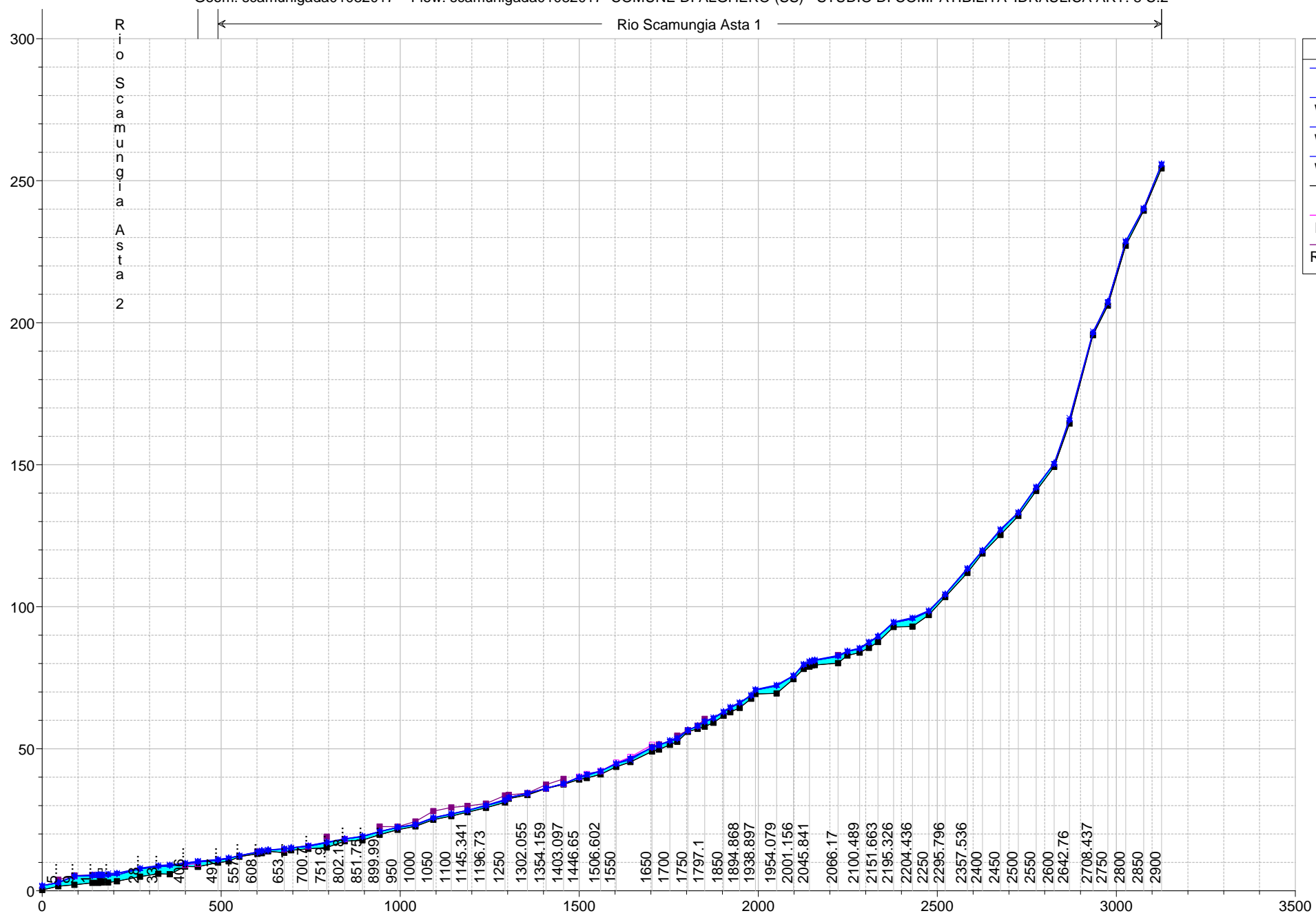
R
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1
2

← Rio Scamungia Asta 1 →

Elevation (m)

Legend

- WS tr 50
- WS tr 100
- WS tr 200
- WS tr 500
- Ground
- Left Levee
- Right Levee

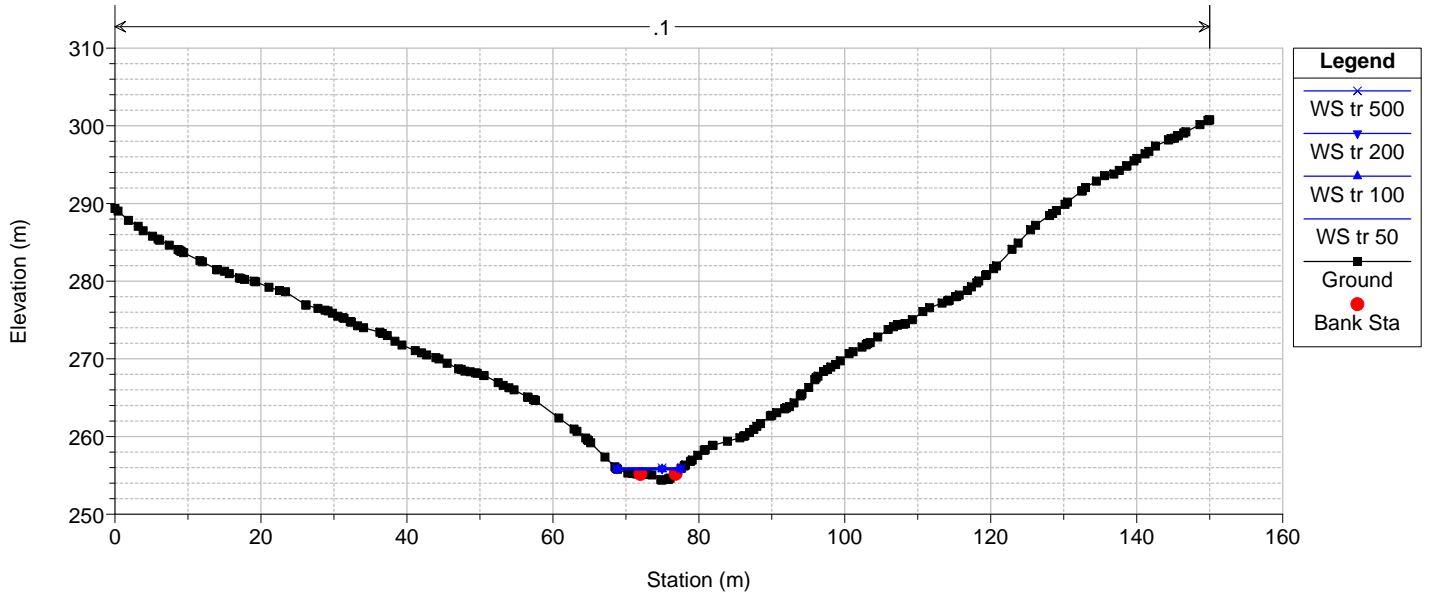


Main Channel Distance (m)

scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

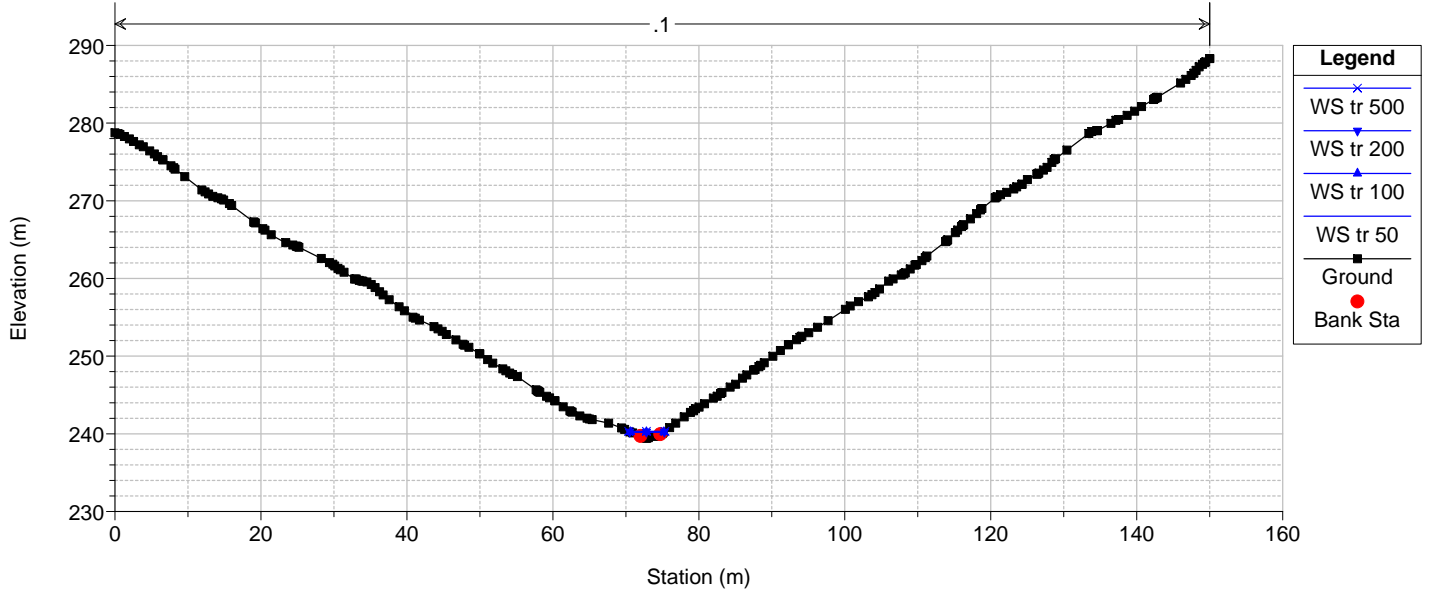
River = Rio Scamungia Reach = Asta 1 RS = 2900 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

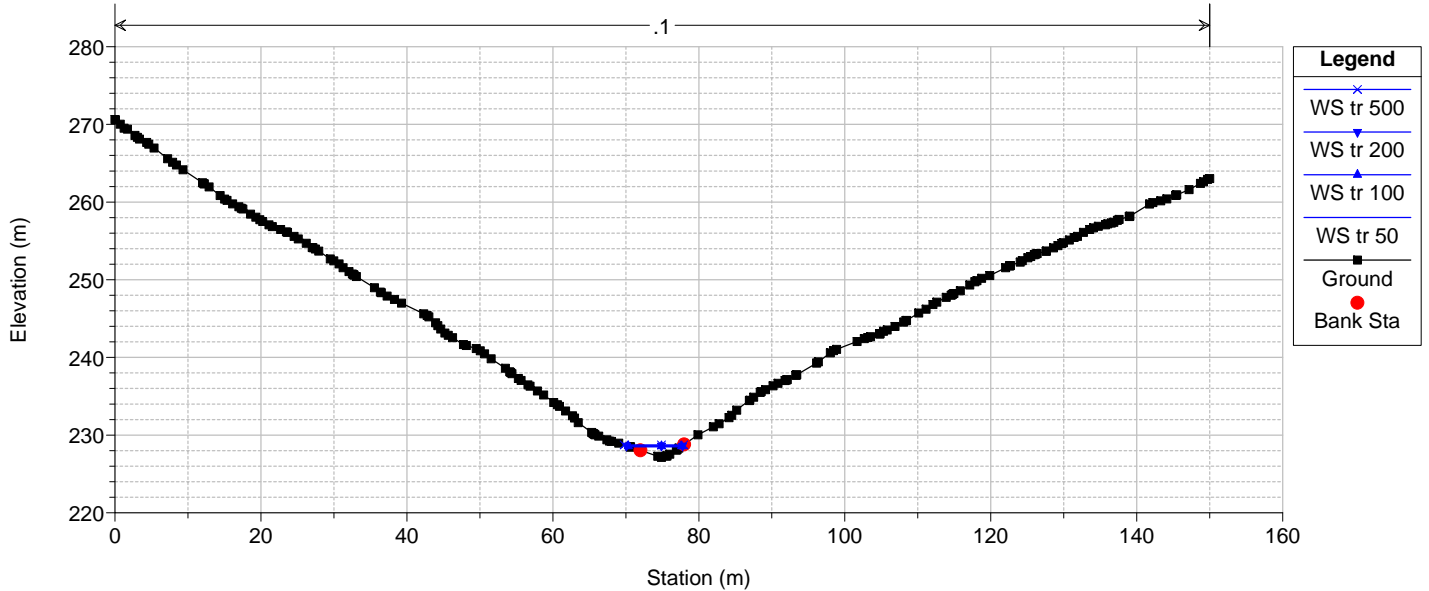
River = Rio Scamungia Reach = Asta 1 RS = 2850 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

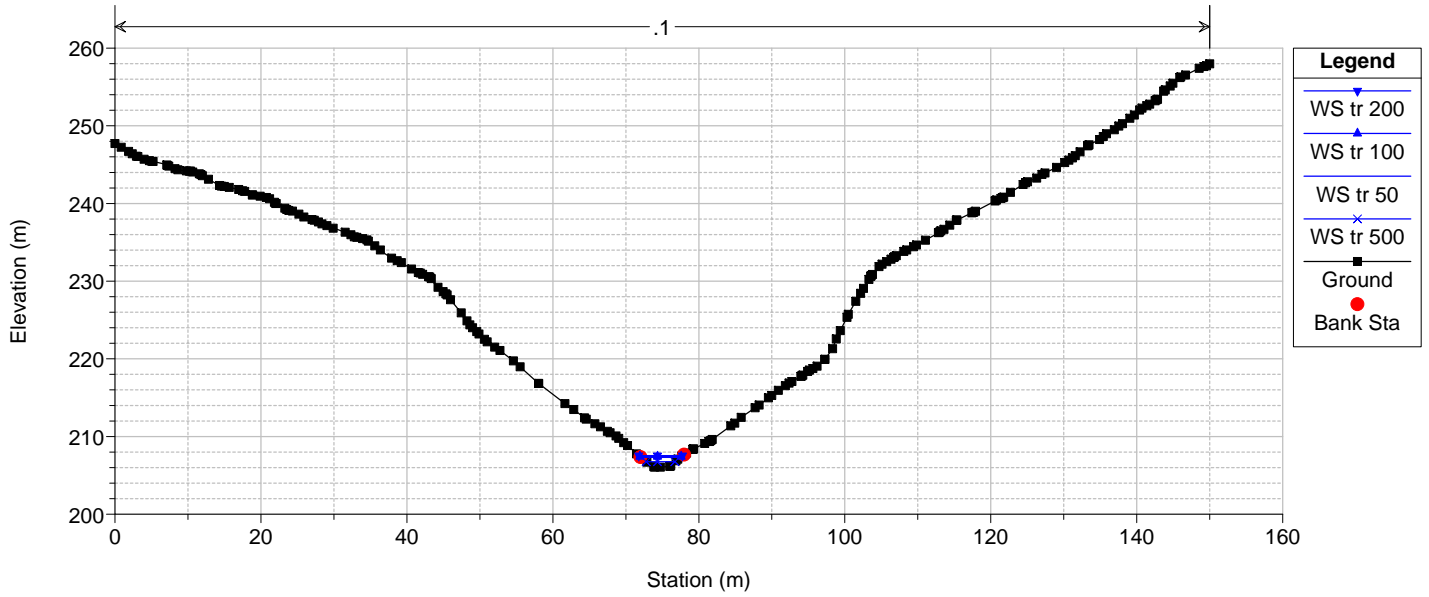
River = Rio Scamungia Reach = Asta 1 RS = 2800 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

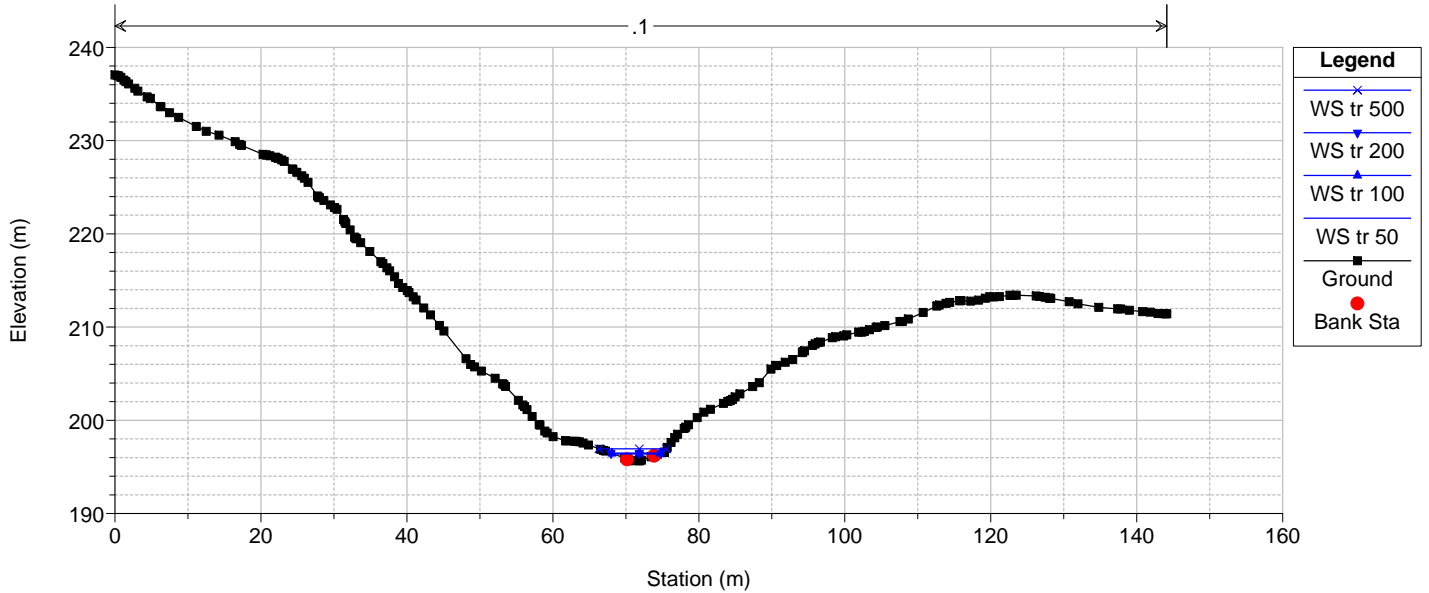
River = Rio Scamungia Reach = Asta 1 RS = 2750 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

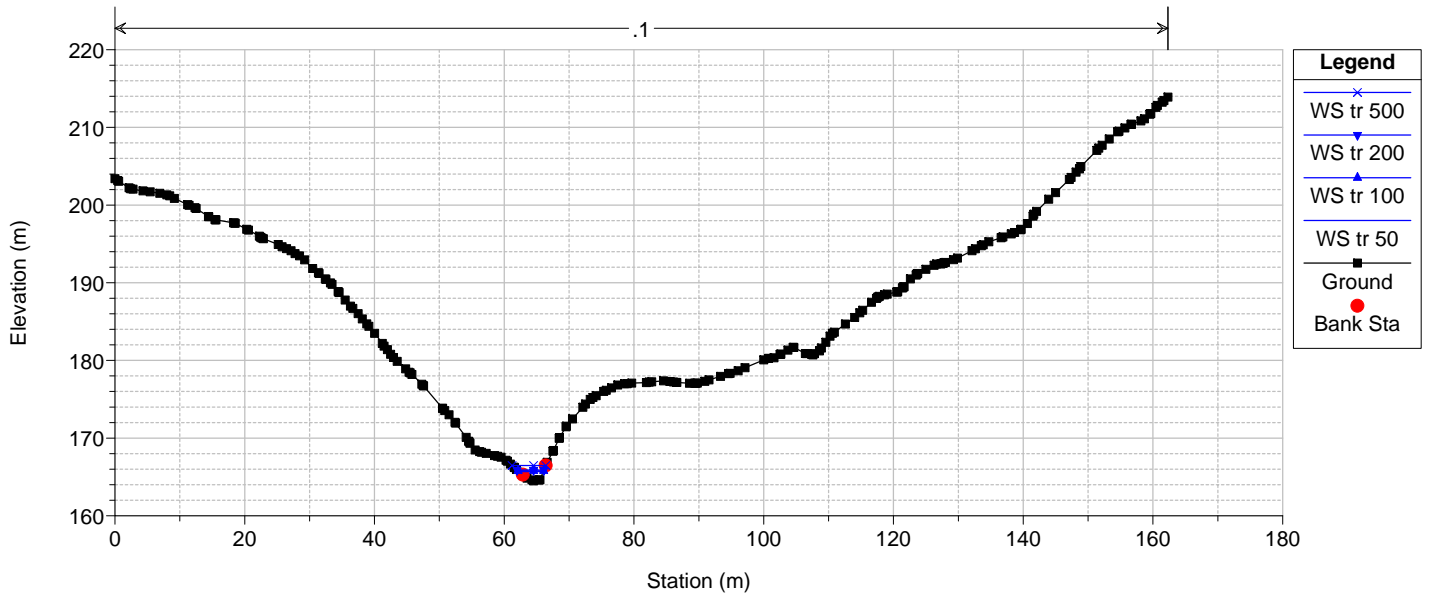
River = Rio Scamungia Reach = Asta 1 RS = 2708.437 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

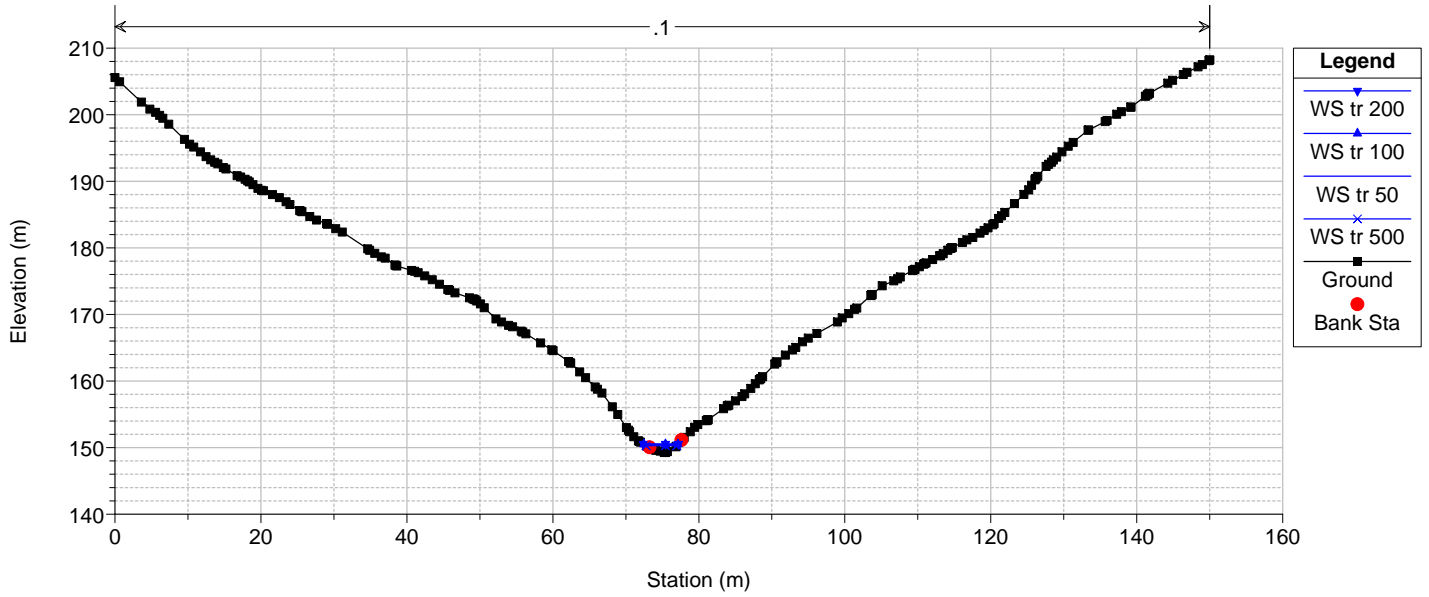
River = Rio Scamungia Reach = Asta 1 RS = 2642.76 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

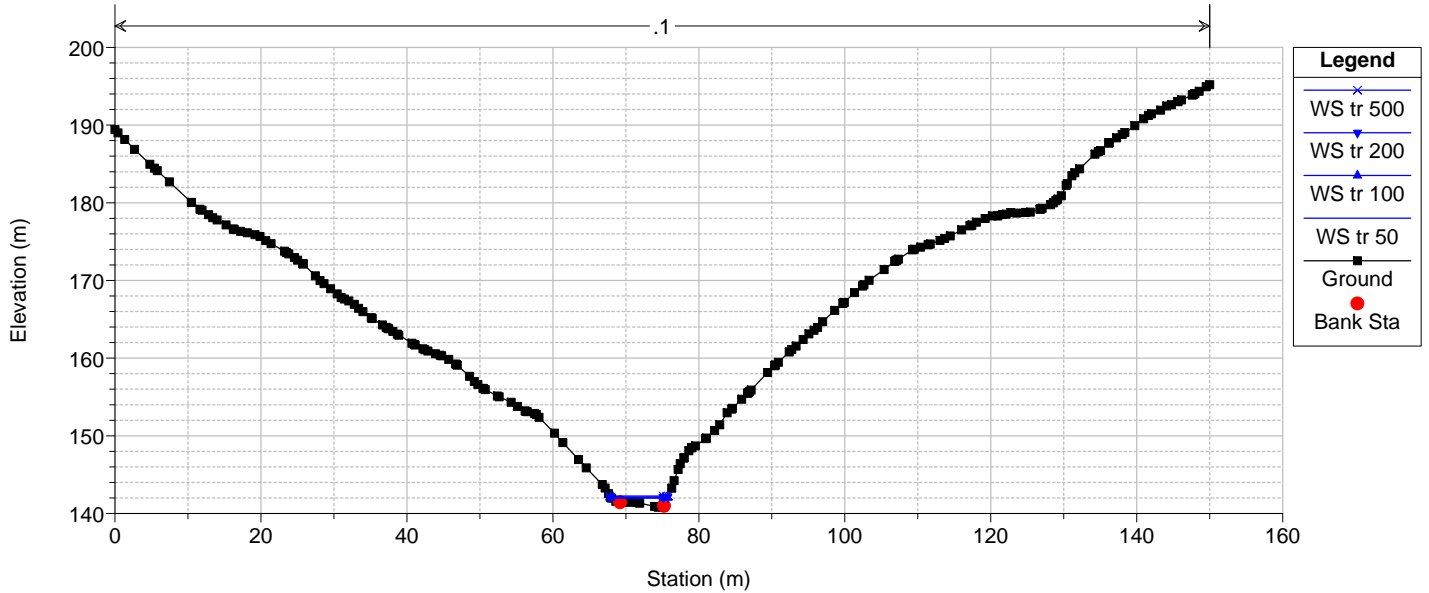
River = Rio Scamungia Reach = Asta 1 RS = 2600 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

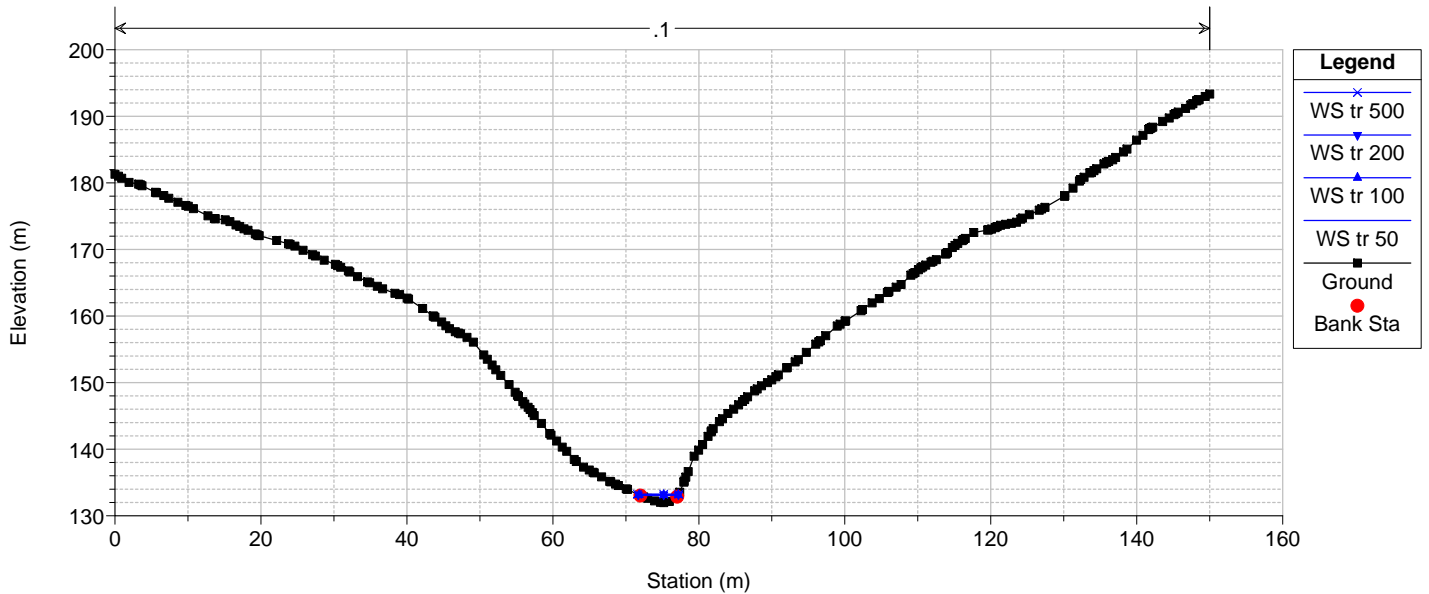
River = Rio Scamungia Reach = Asta 1 RS = 2550 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

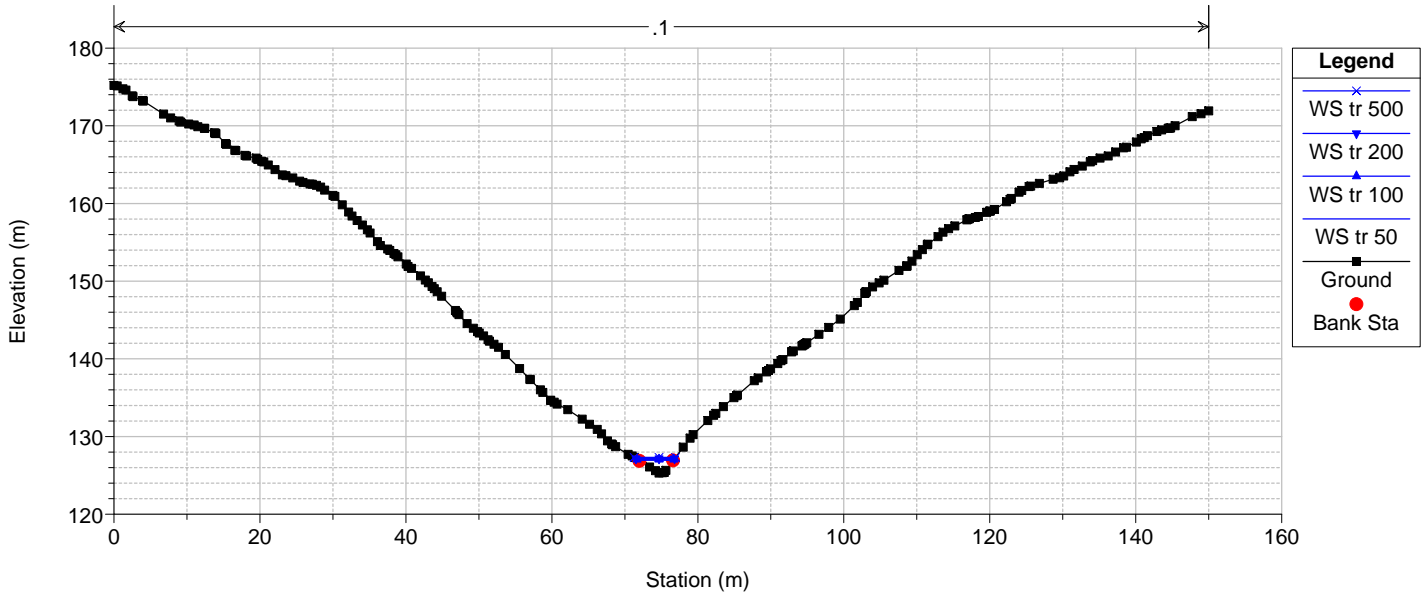
River = Rio Scamungia Reach = Asta 1 RS = 2500 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

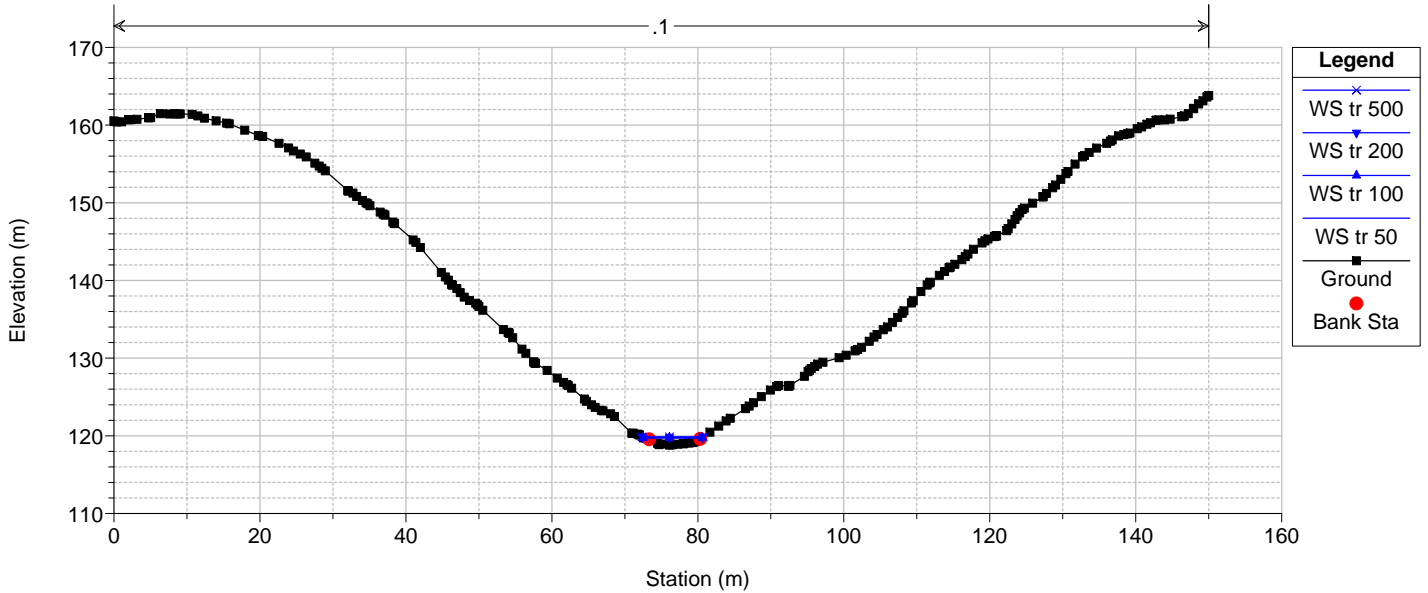
River = Rio Scamungia Reach = Asta 1 RS = 2450 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

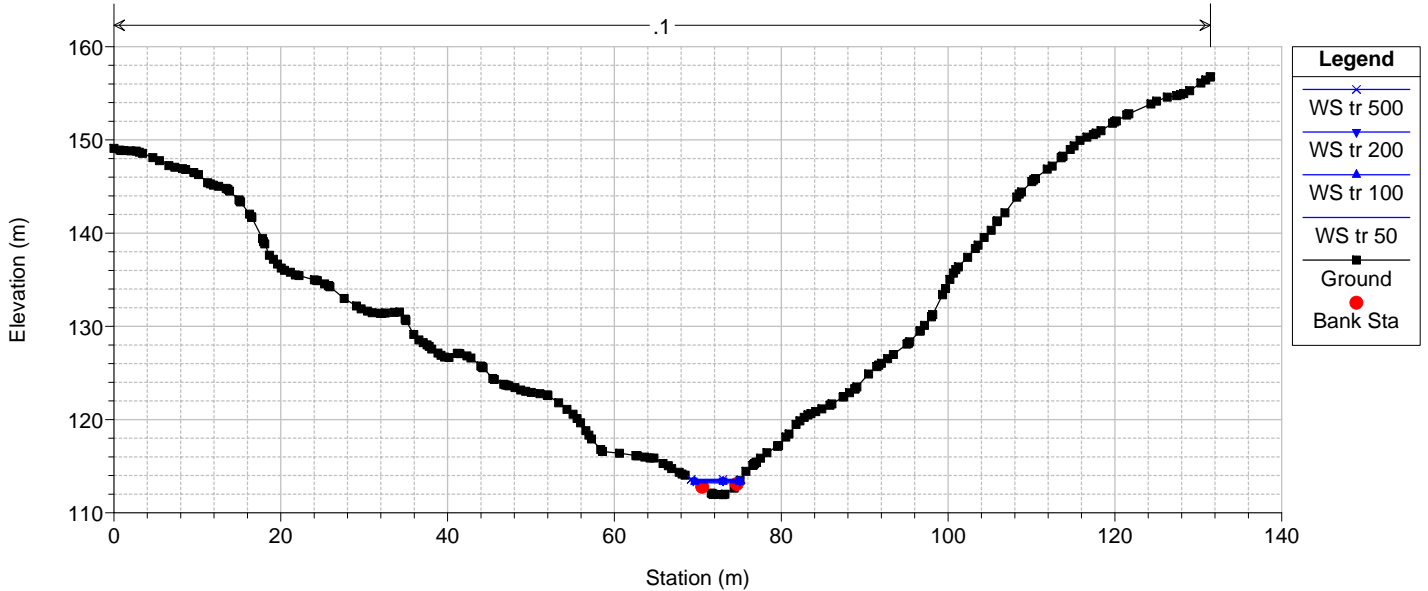
River = Rio Scamungia Reach = Asta 1 RS = 2400 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

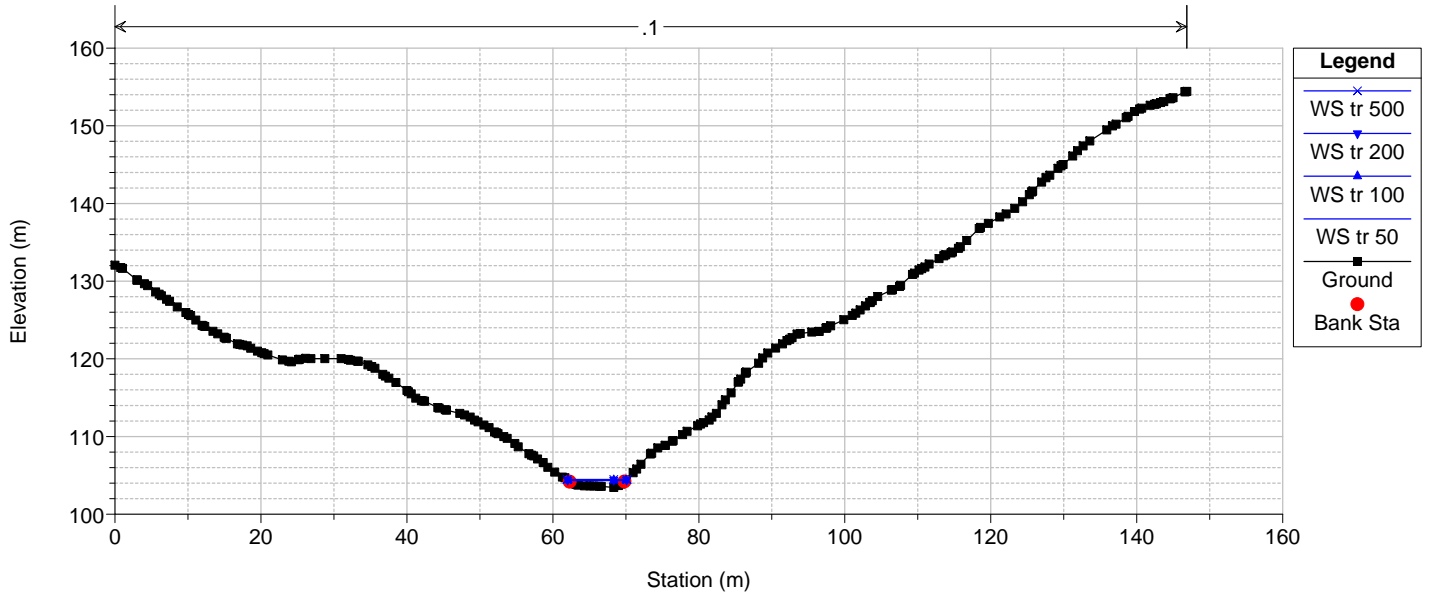
River = Rio Scamungia Reach = Asta 1 RS = 2357.536 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

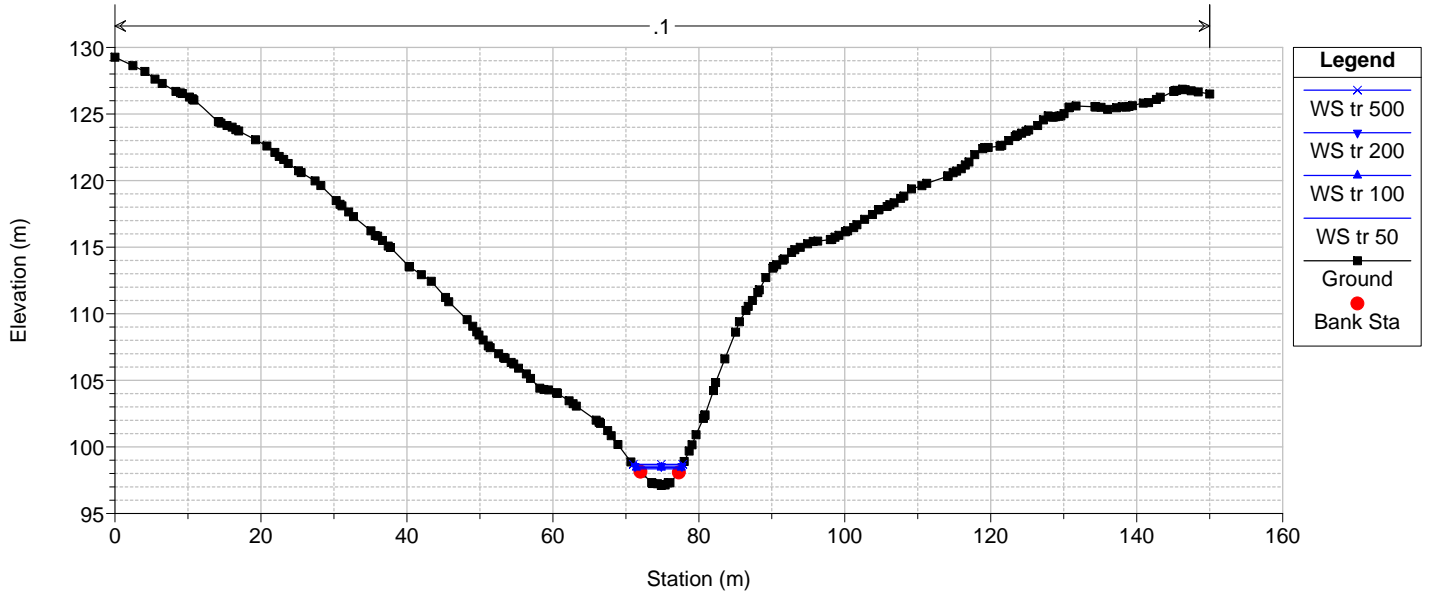
River = Rio Scamungia Reach = Asta 1 RS = 2295.796 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

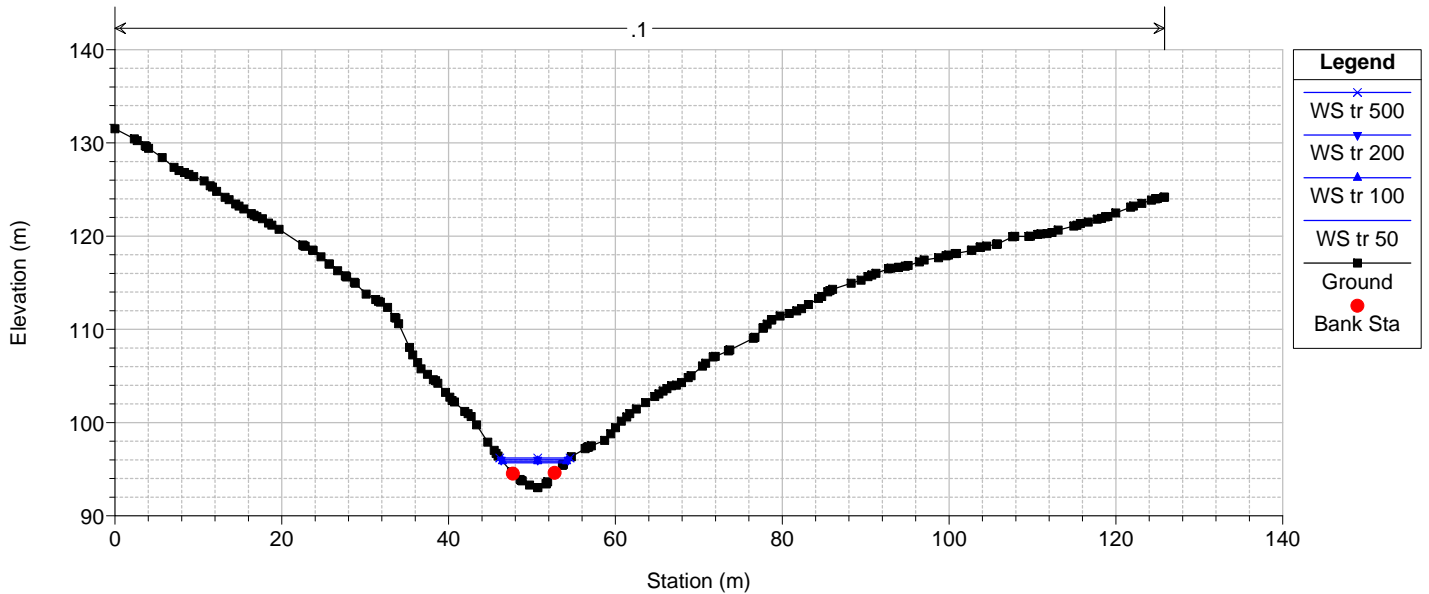
River = Rio Scamungia Reach = Asta 1 RS = 2250 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

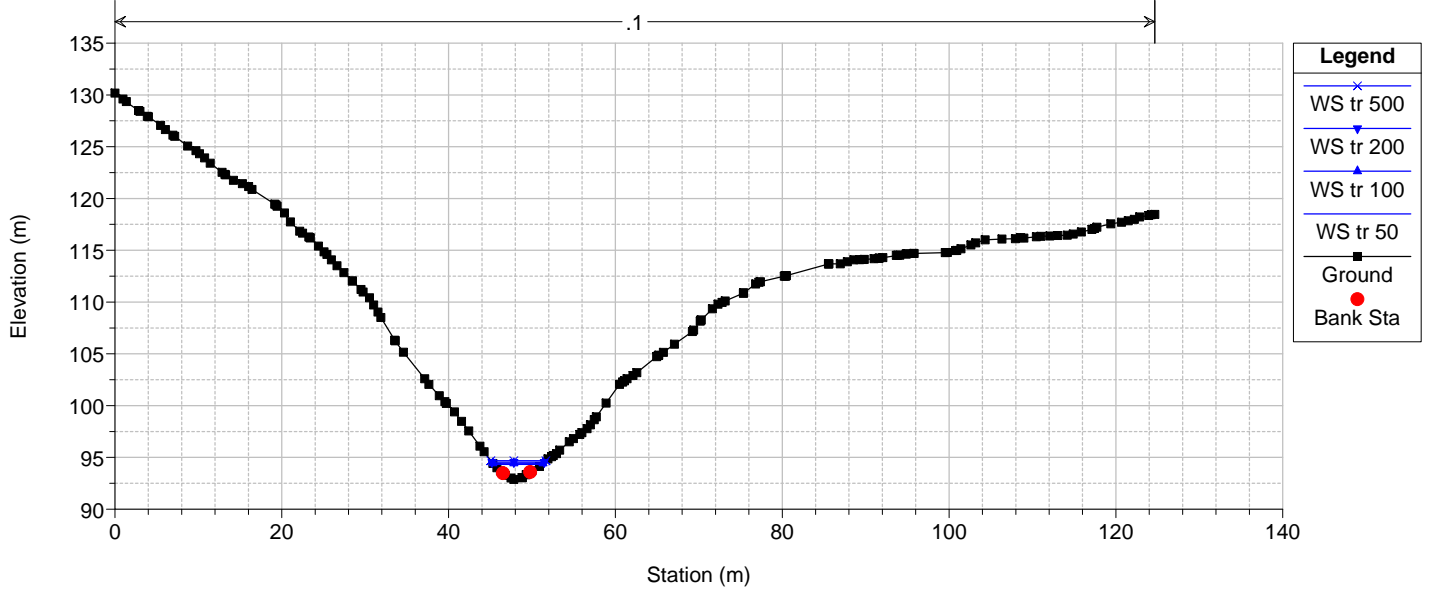
River = Rio Scamungia Reach = Asta 1 RS = 2204.436 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

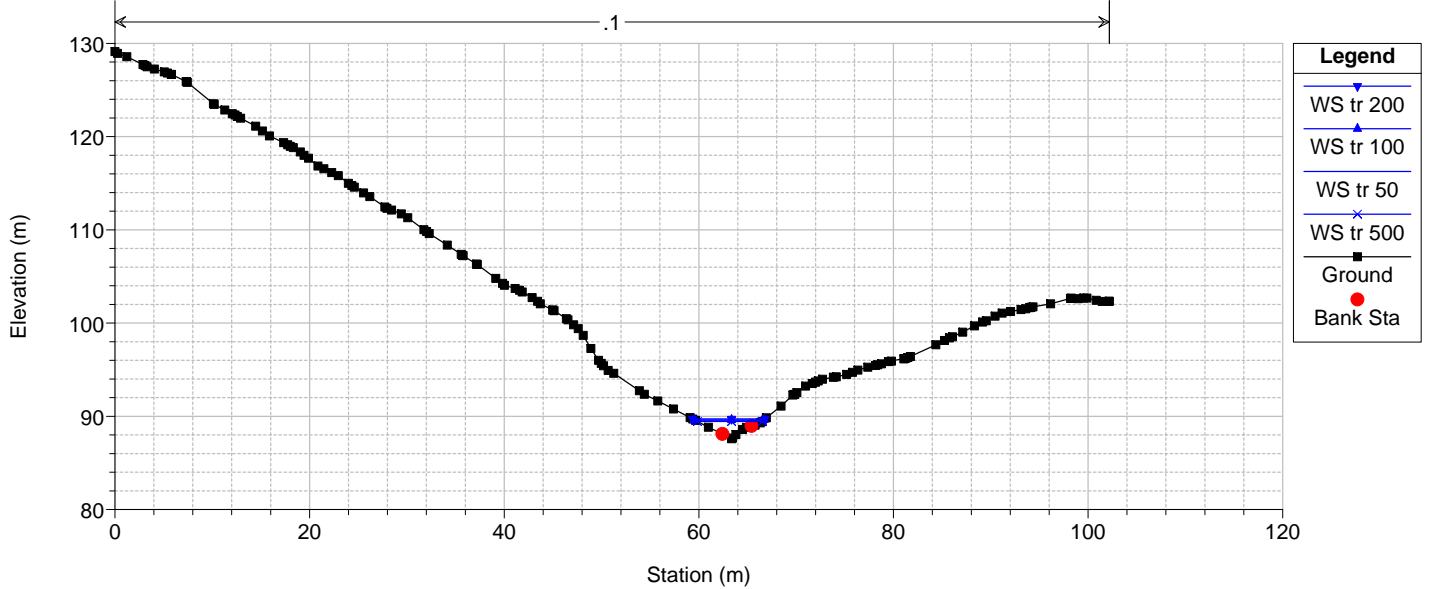
River = Rio Scamungia Reach = Asta 1 RS = 2195.326 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

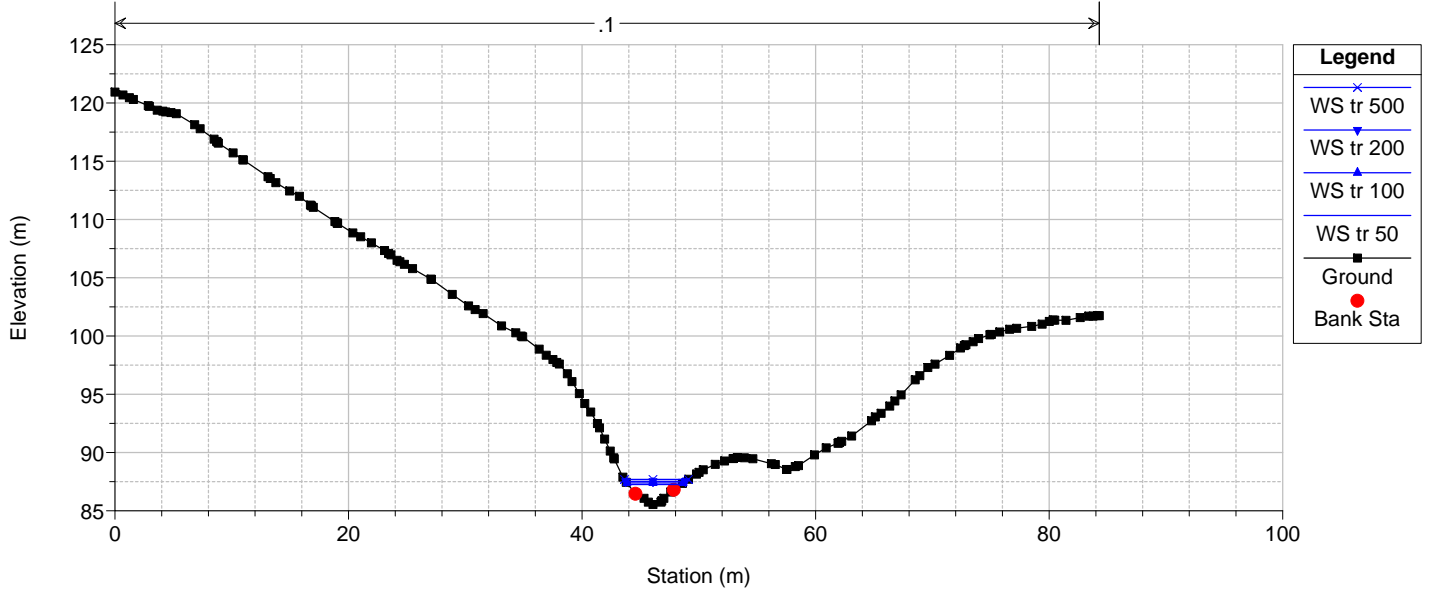
River = Rio Scamungia Reach = Asta 1 RS = 2151.663 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

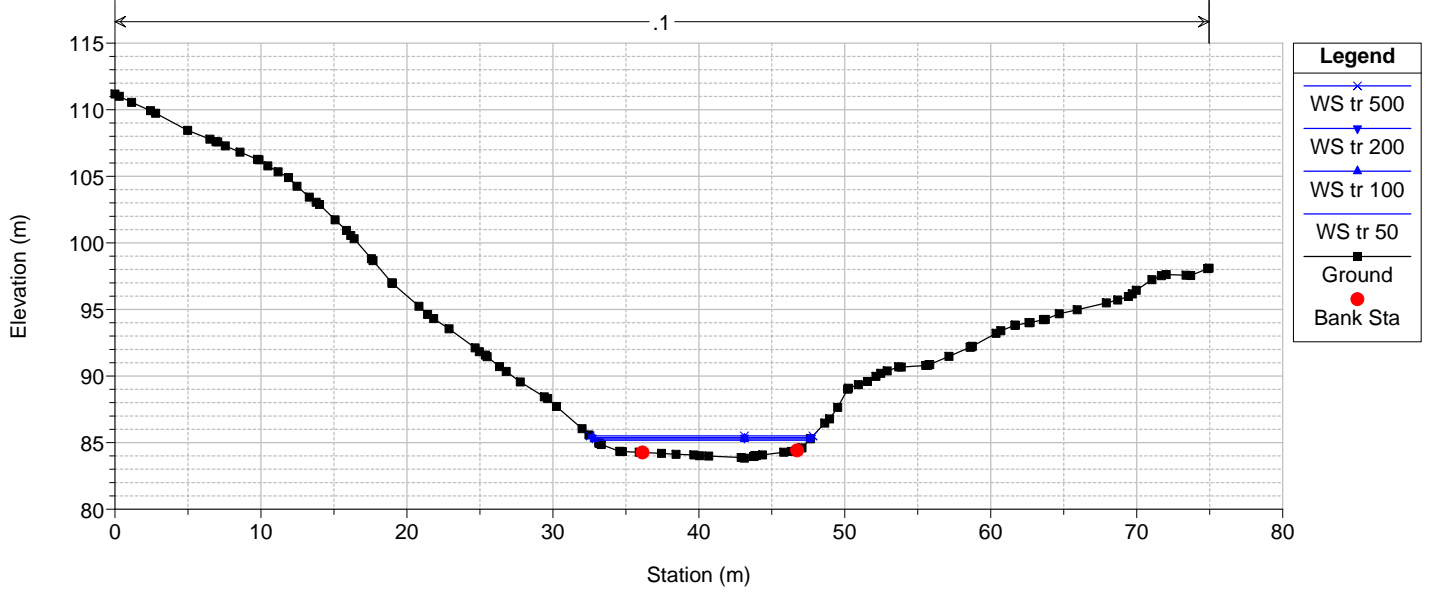
River = Rio Scamungia Reach = Asta 1 RS = 2126.361 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

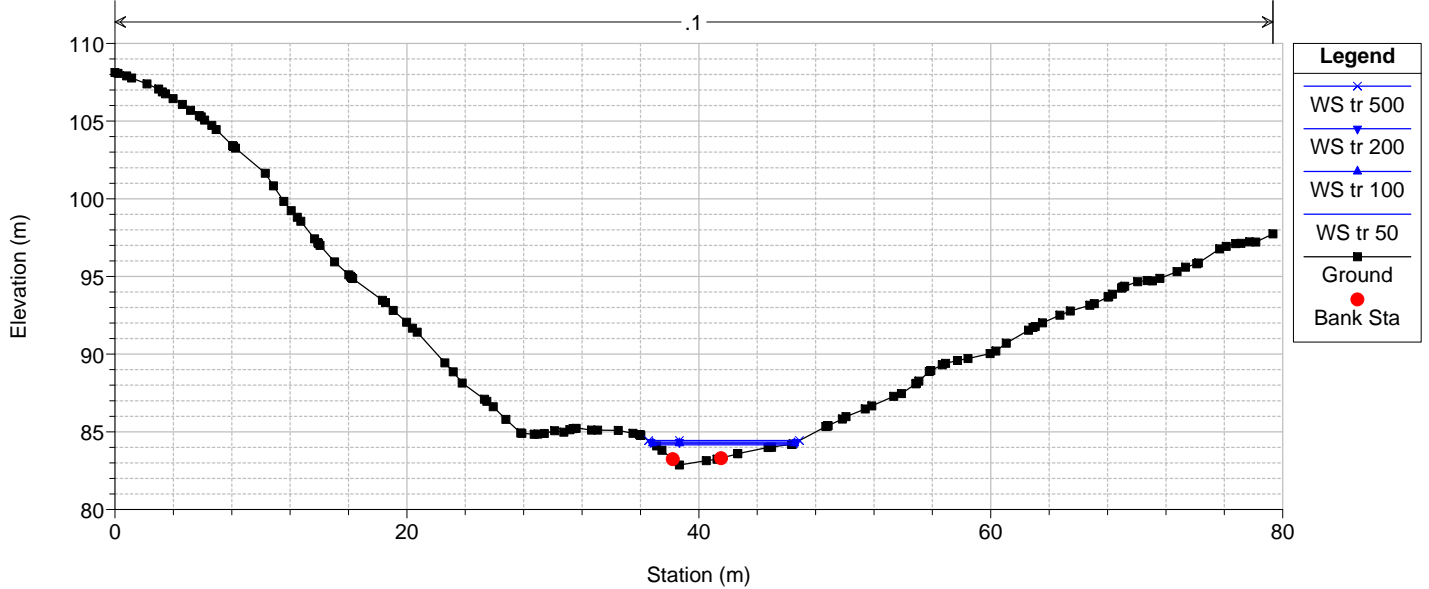
River = Rio Scamungia Reach = Asta 1 RS = 2100.489 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

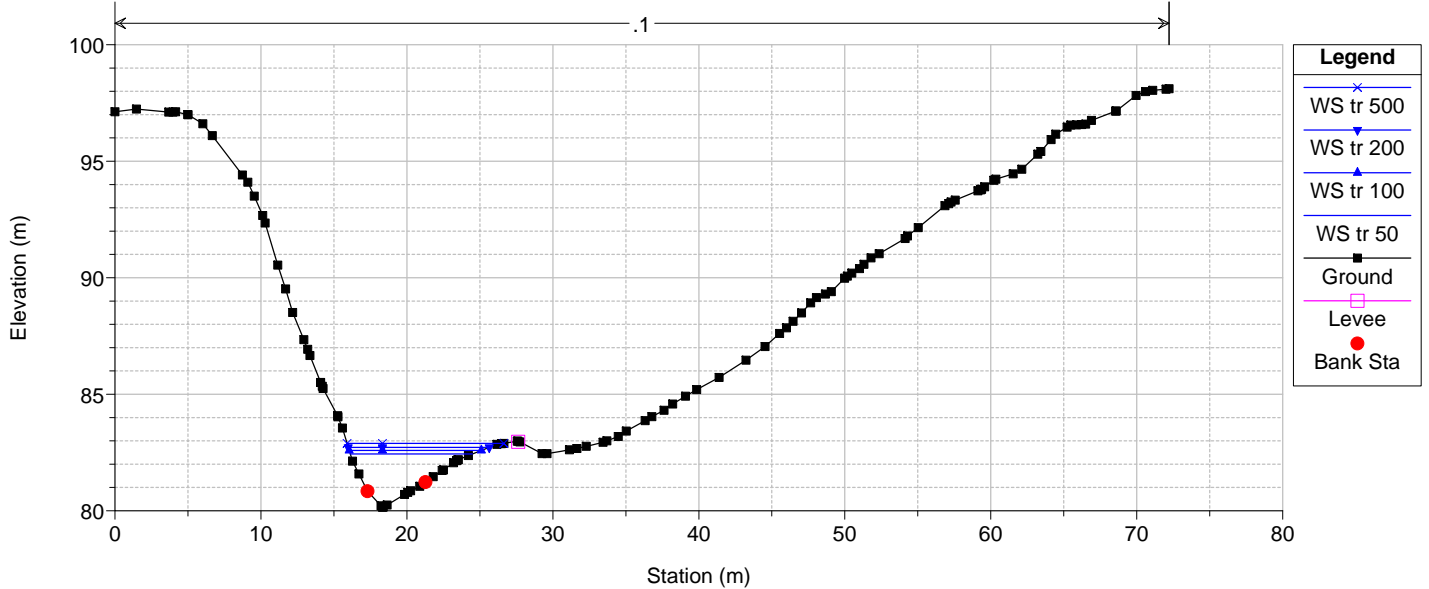
River = Rio Scamungia Reach = Asta 1 RS = 2092.196 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

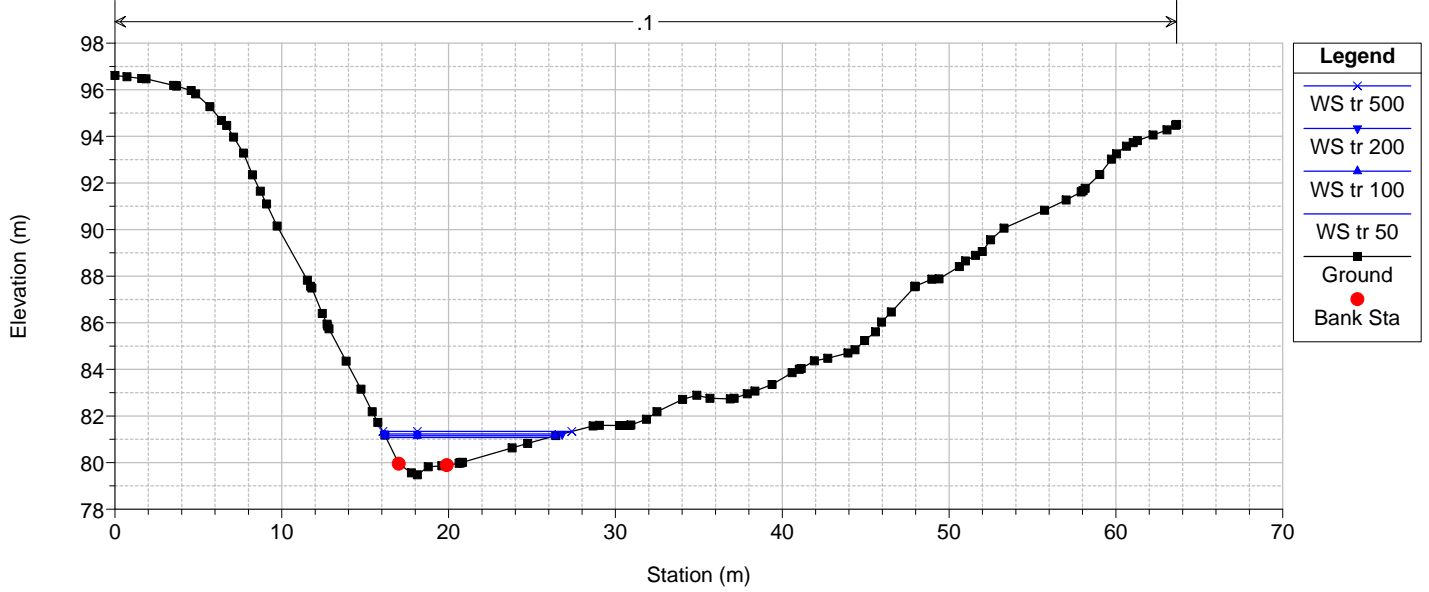
River = Rio Scamungia Reach = Asta 1 RS = 2066.17 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

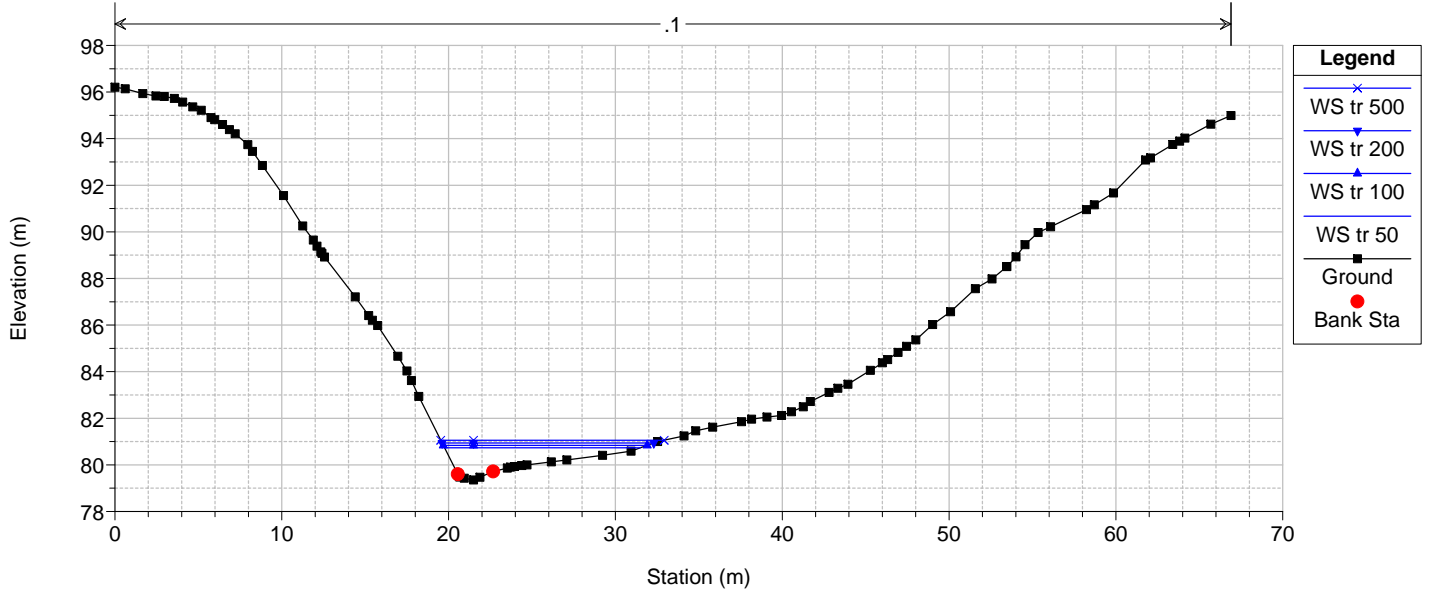
River = Rio Scamungia Reach = Asta 1 RS = 2060.627 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

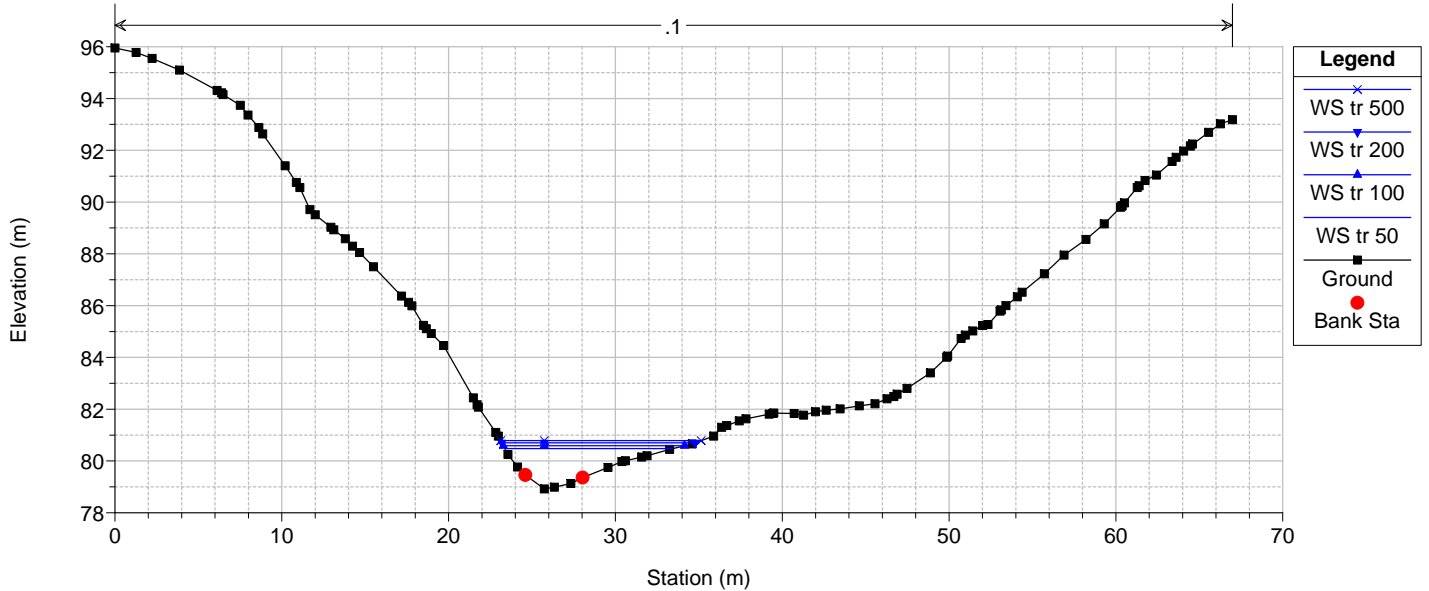
River = Rio Scamungia Reach = Asta 1 RS = 2052.51 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

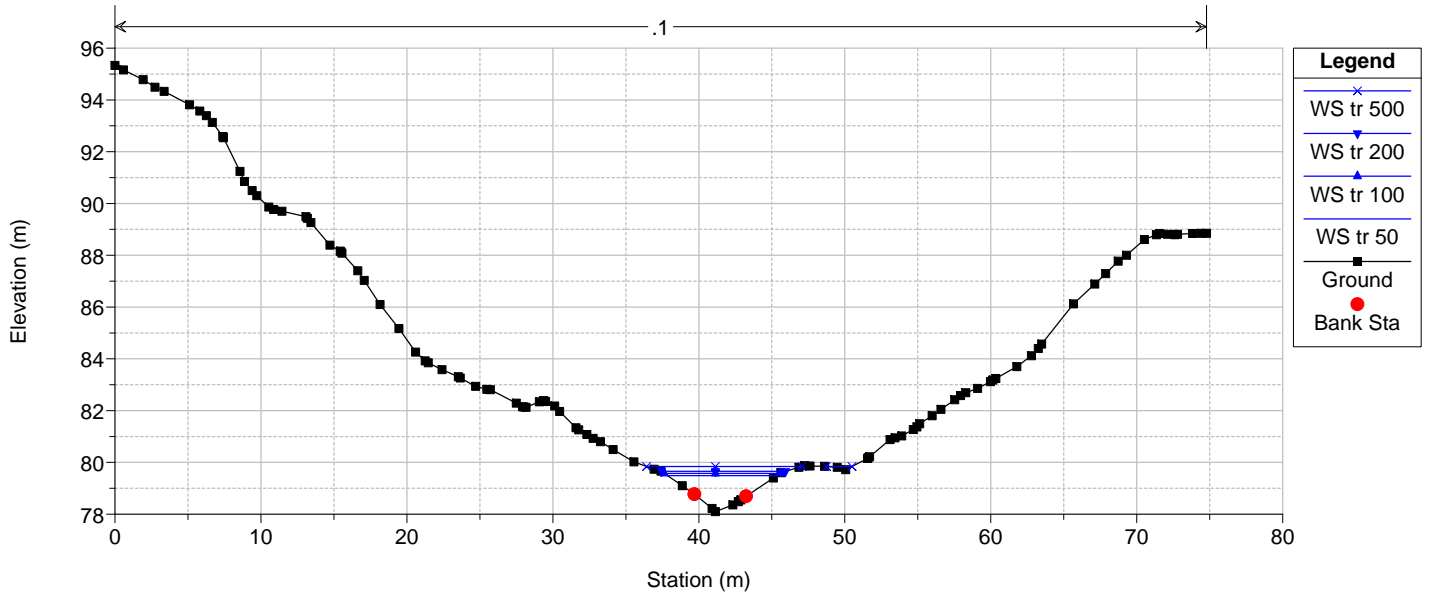
River = Rio Scamungia Reach = Asta 1 RS = 2045.841 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

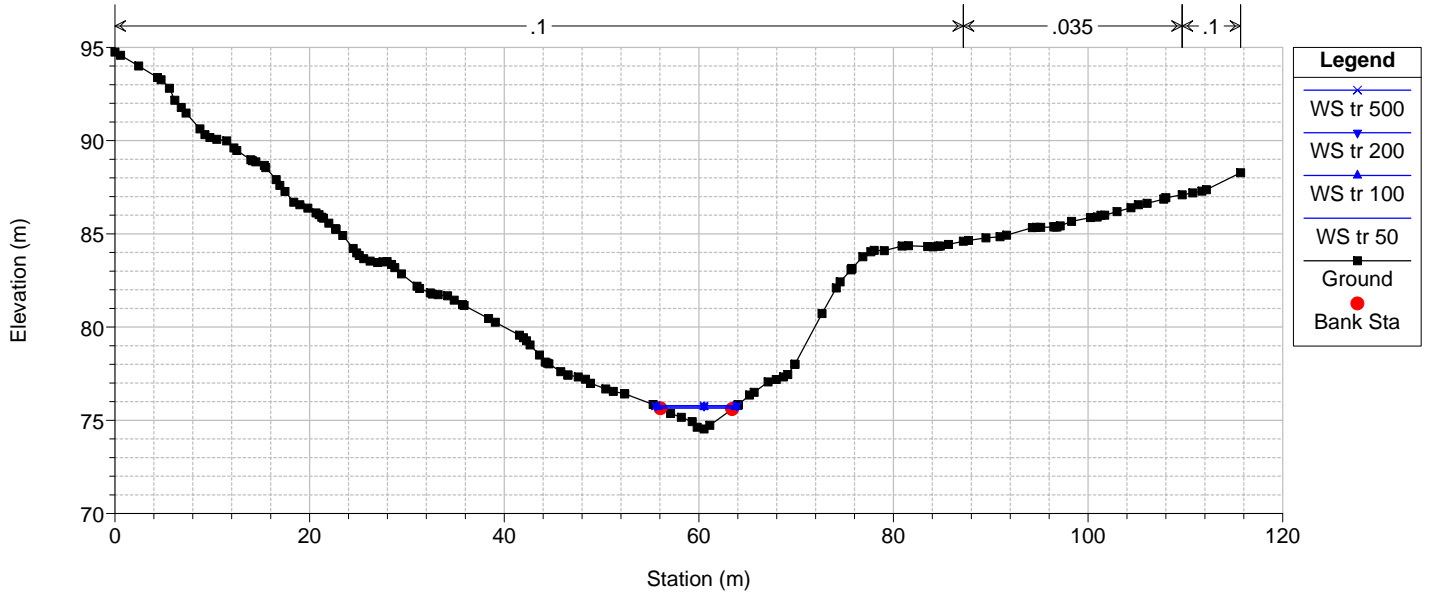
River = Rio Scamungia Reach = Asta 1 RS = 2029.366 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

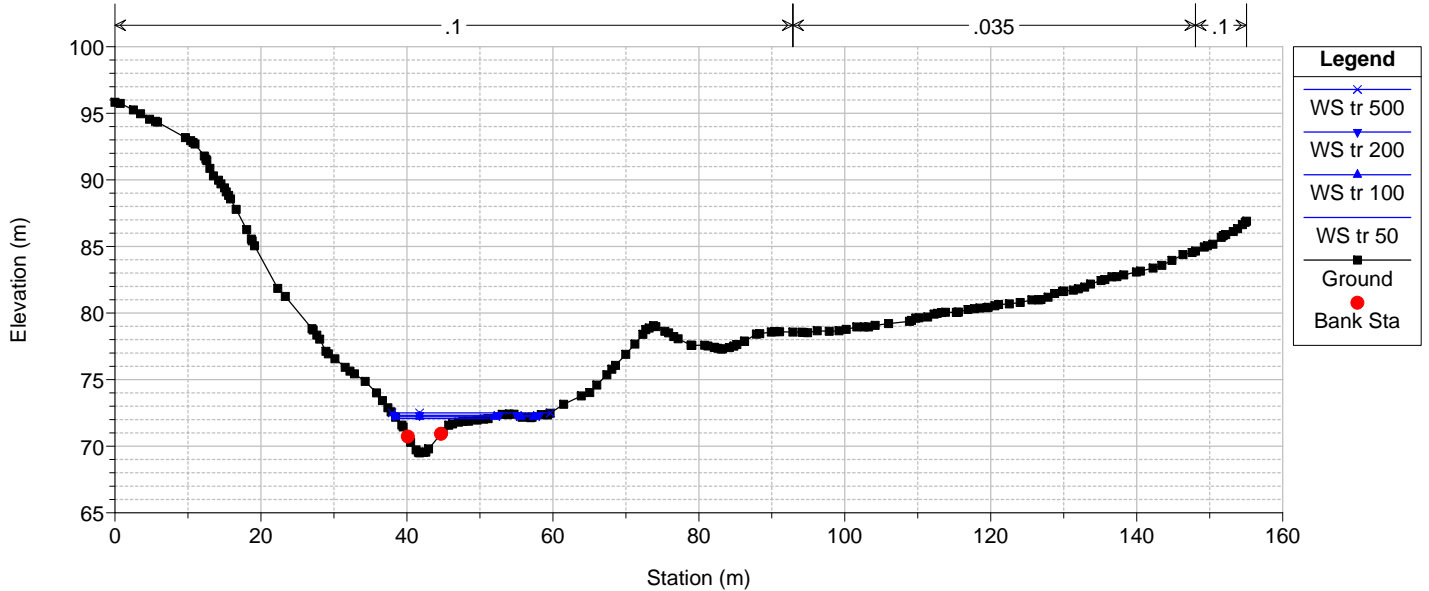
River = Rio Scamungia Reach = Asta 1 RS = 2001.156 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

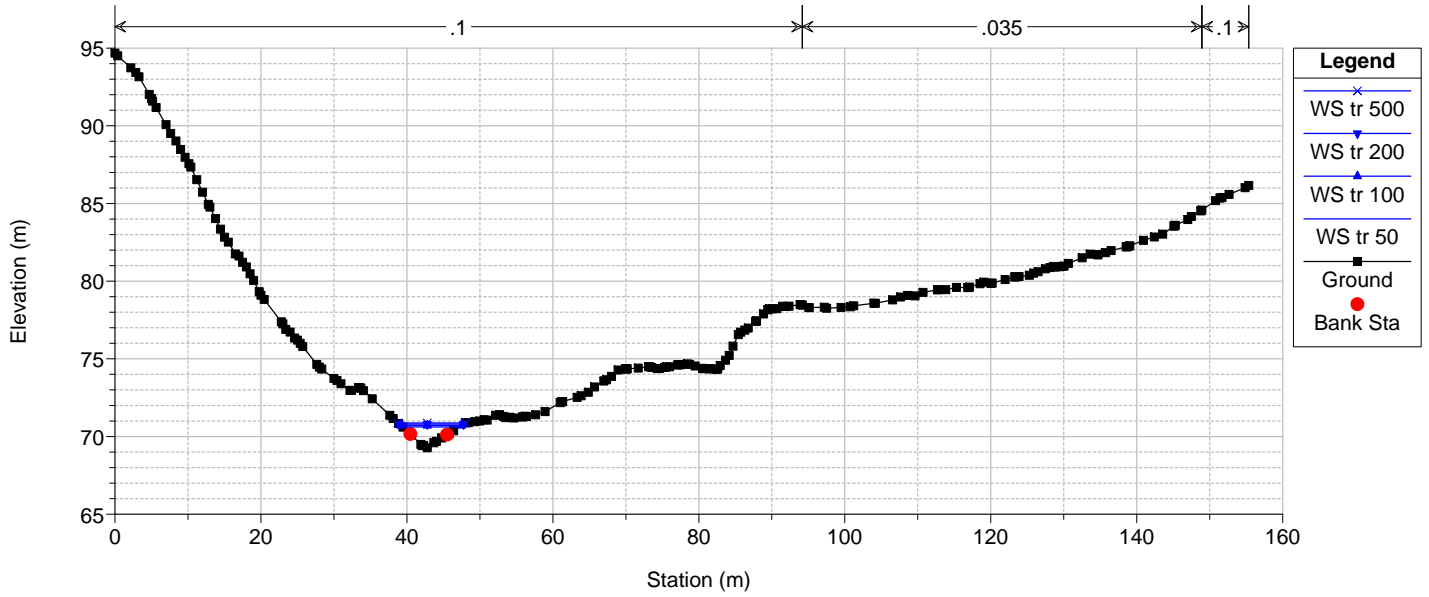
River = Rio Scamungia Reach = Asta 1 RS = 1954.079 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

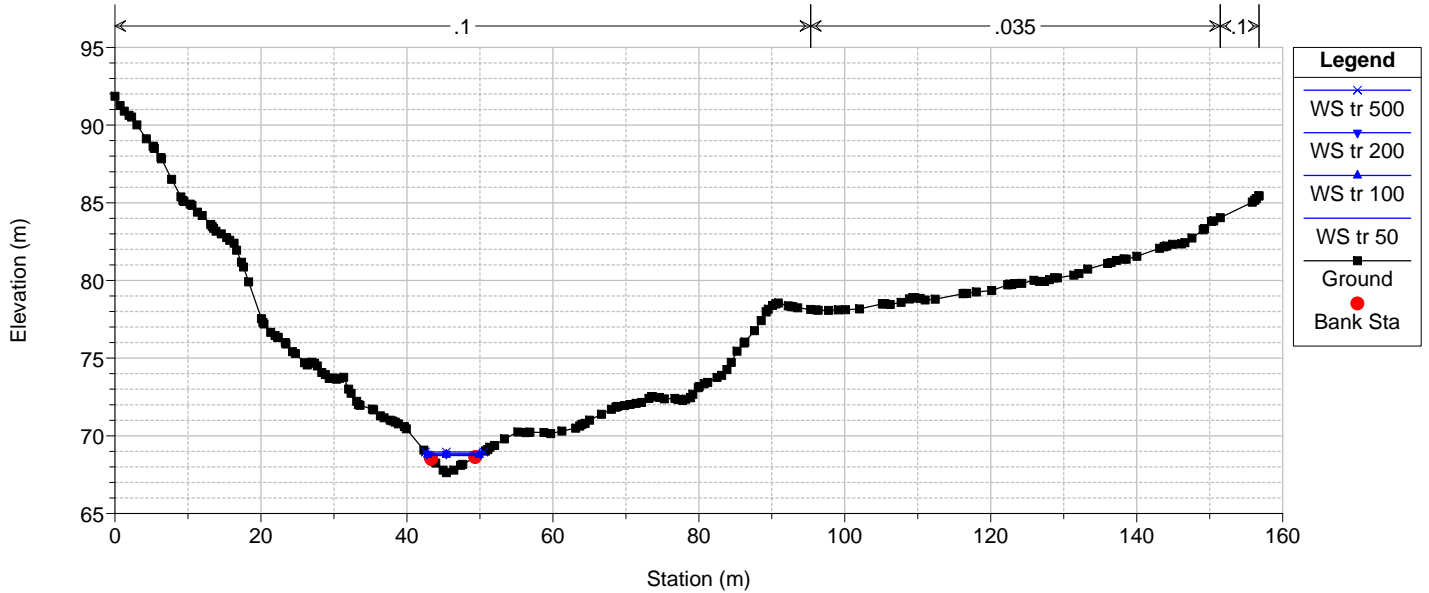
River = Rio Scamungia Reach = Asta 1 RS = 1938.897 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

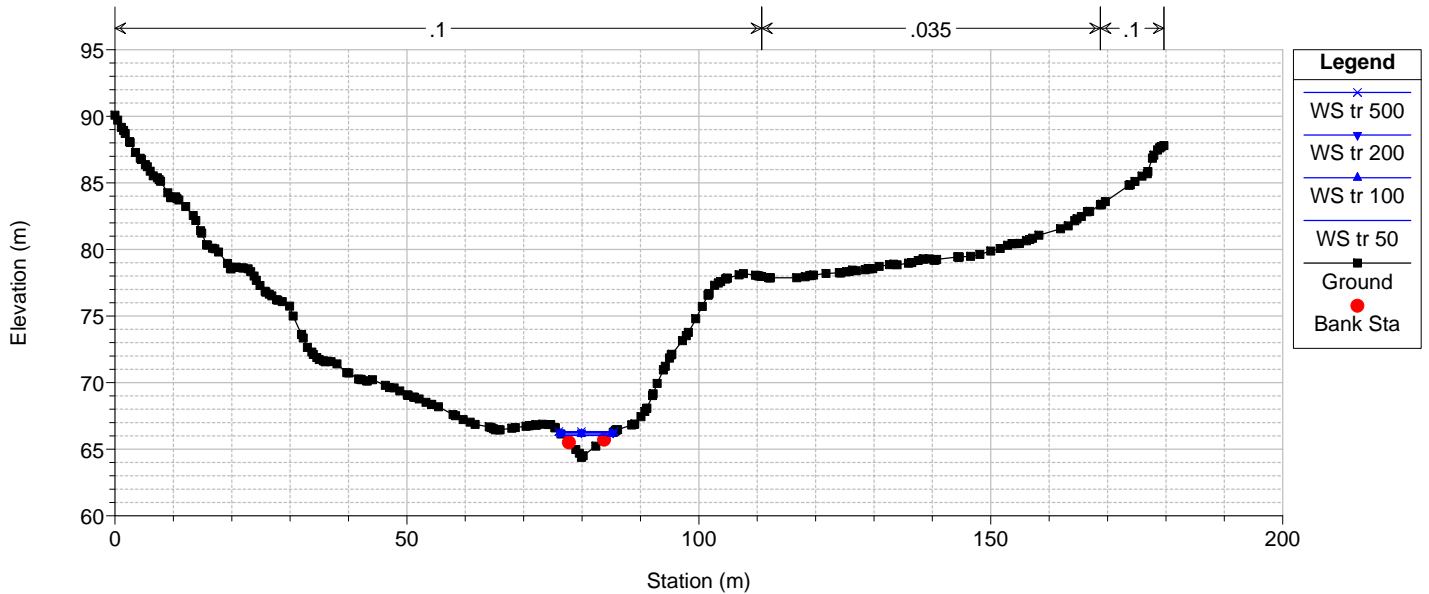
River = Rio Scamungia Reach = Asta 1 RS = 1926.989 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

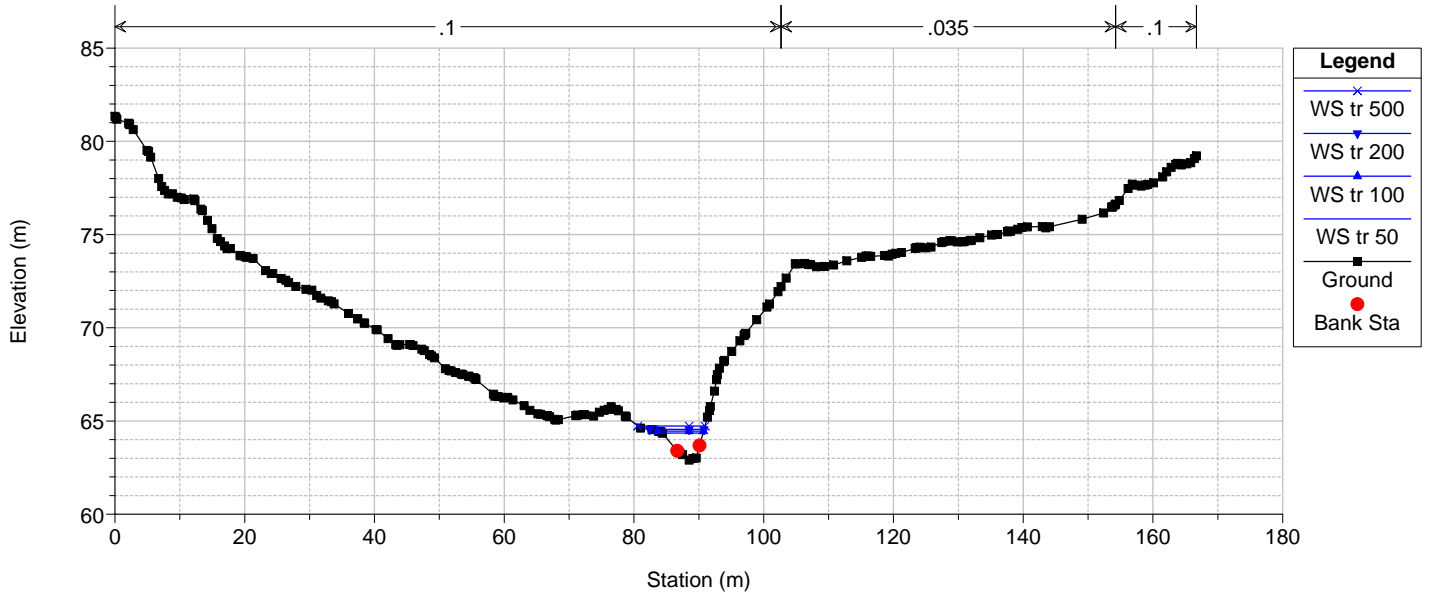
River = Rio Scamungia Reach = Asta 1 RS = 1894.868 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

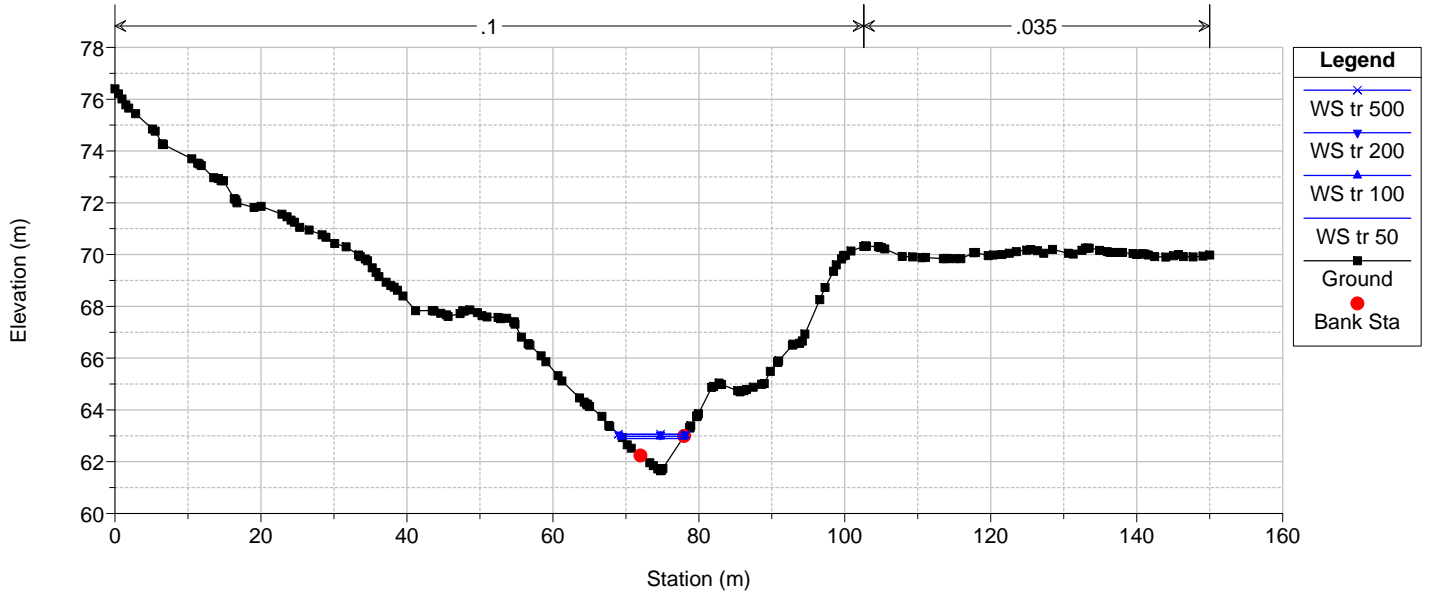
River = Rio Scamungia Reach = Asta 1 RS = 1868.65 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

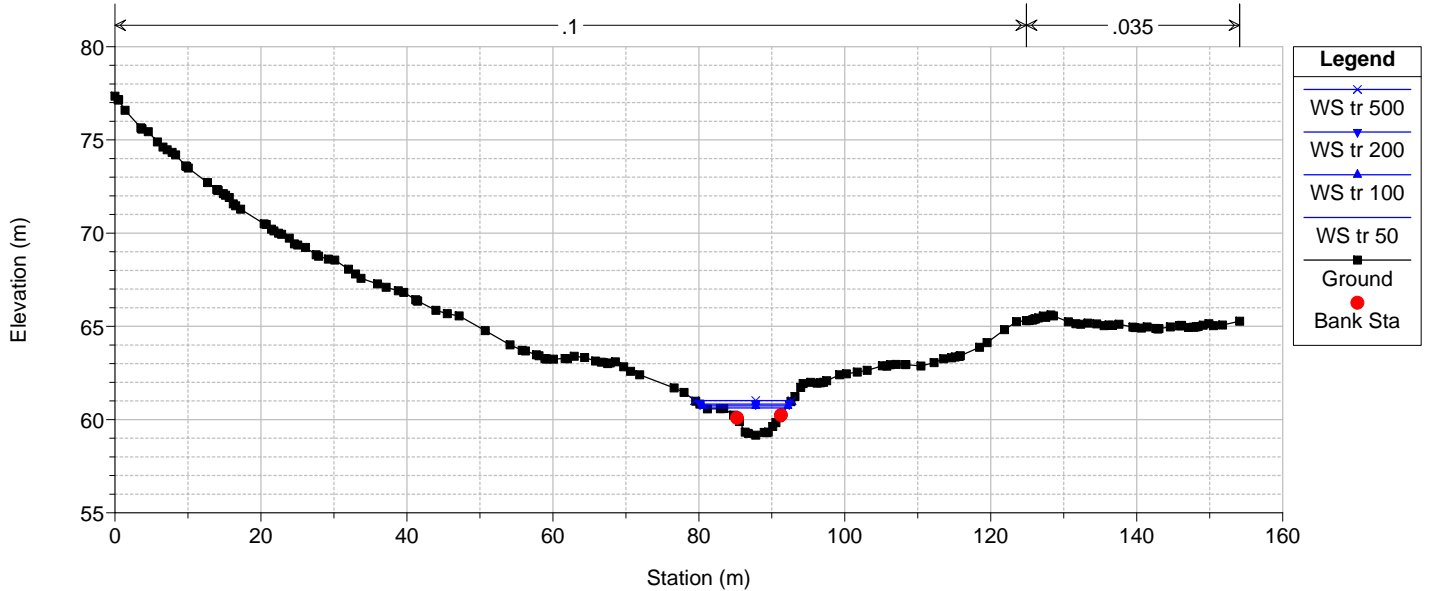
River = Rio Scamungia Reach = Asta 1 RS = 1850 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

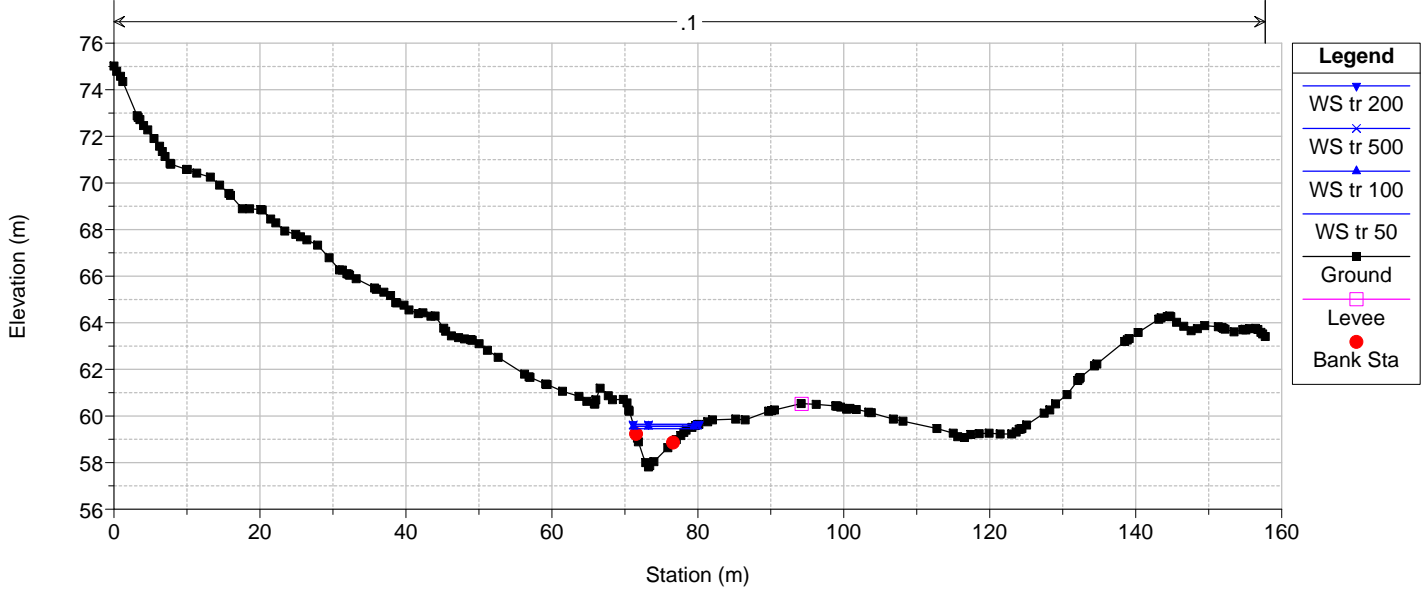
River = Rio Scamungia Reach = Asta 1 RS = 1821.607 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

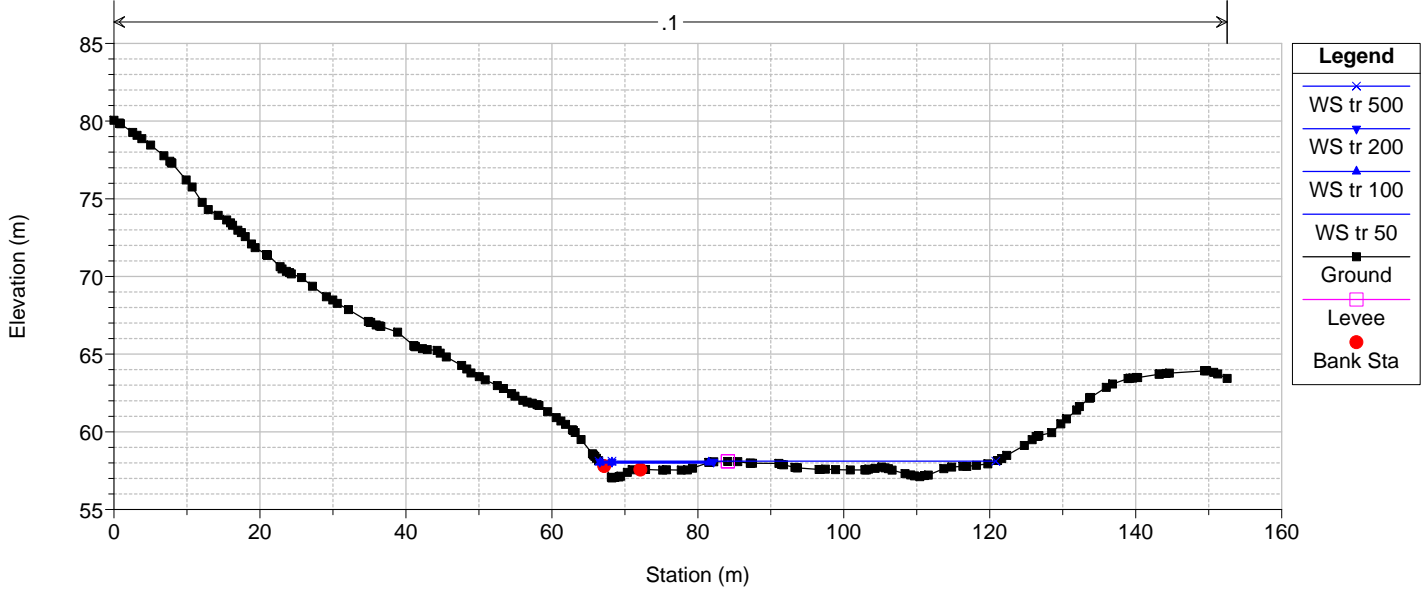
River = Rio Scamungia Reach = Asta 1 RS = 1797.1 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

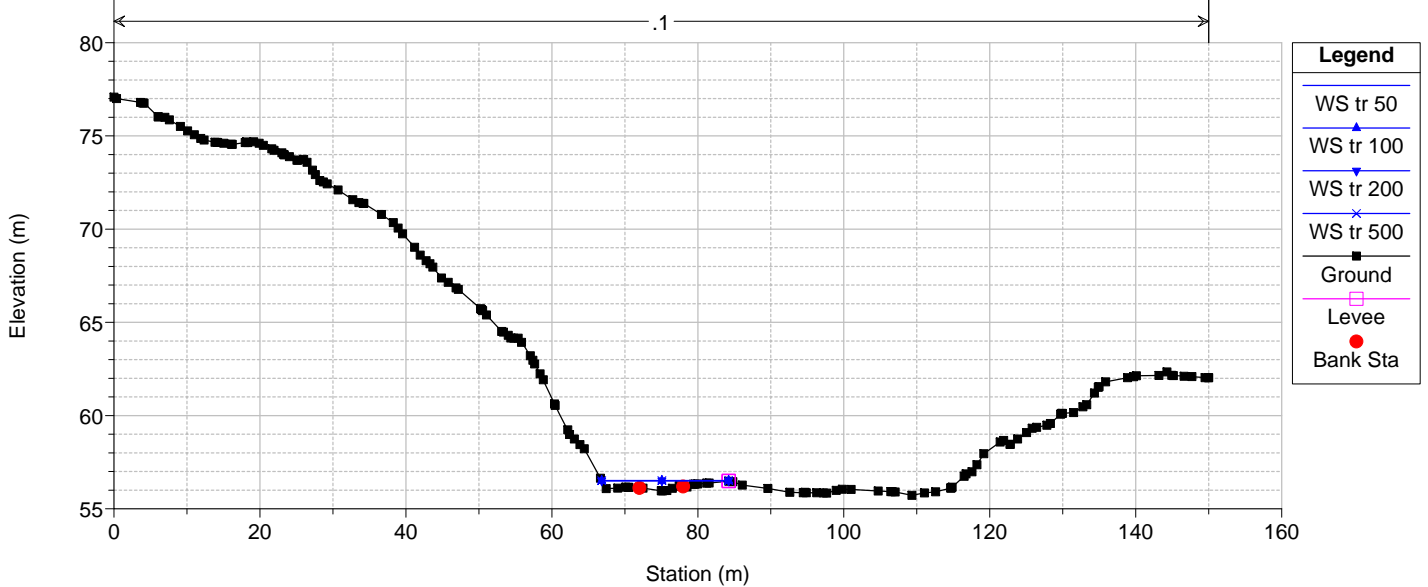
River = Rio Scamungia Reach = Asta 1 RS = 1777.653 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

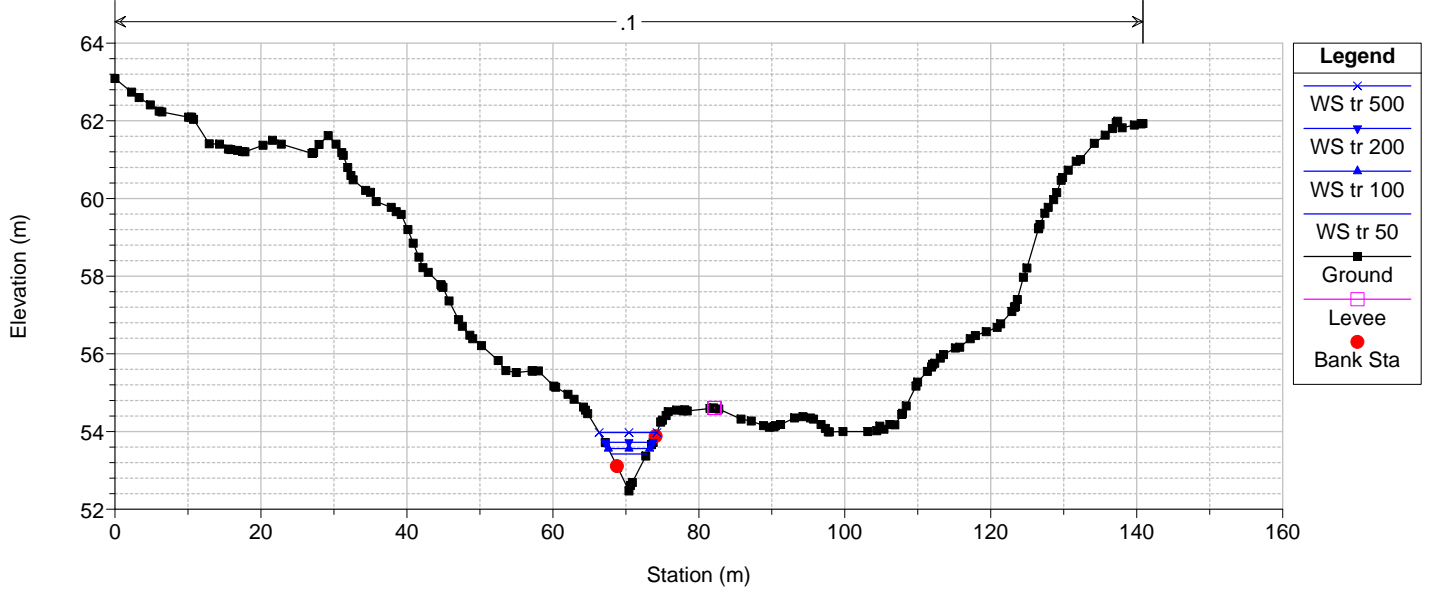
River = Rio Scamungia Reach = Asta 1 RS = 1750 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

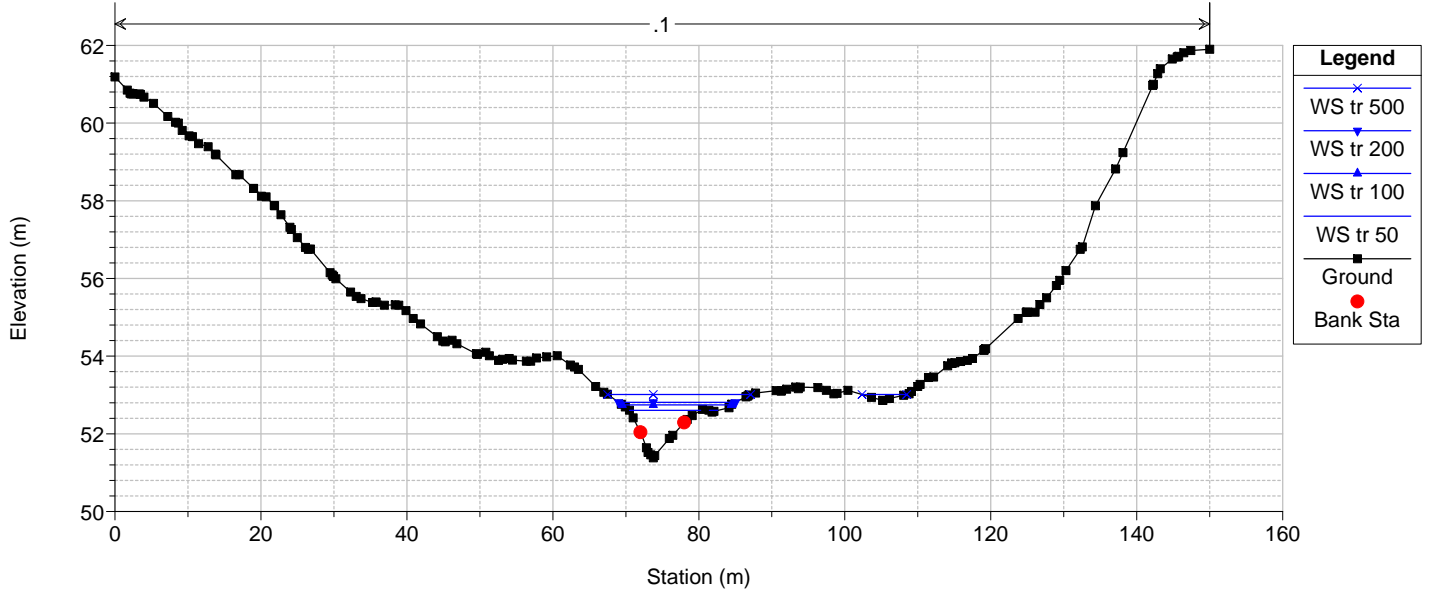
River = Rio Scamungia Reach = Asta 1 RS = 1720.582 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

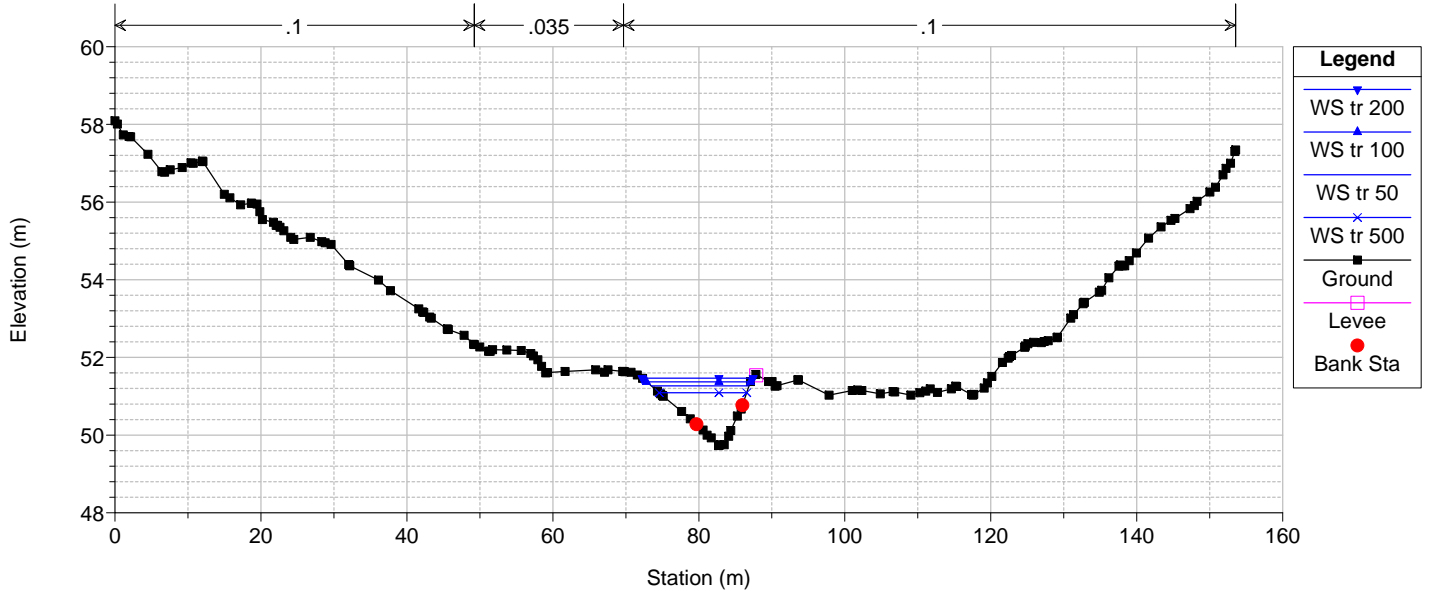
River = Rio Scamungia Reach = Asta 1 RS = 1700 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

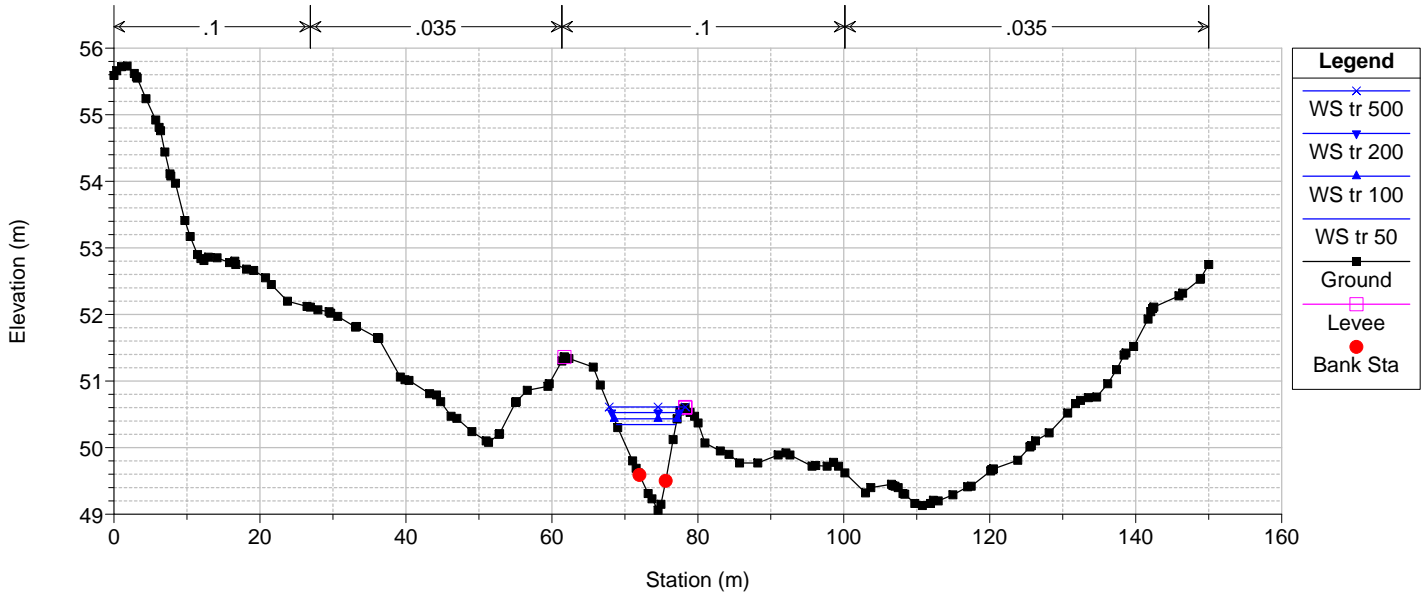
River = Rio Scamungia Reach = Asta 1 RS = 1669.545 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

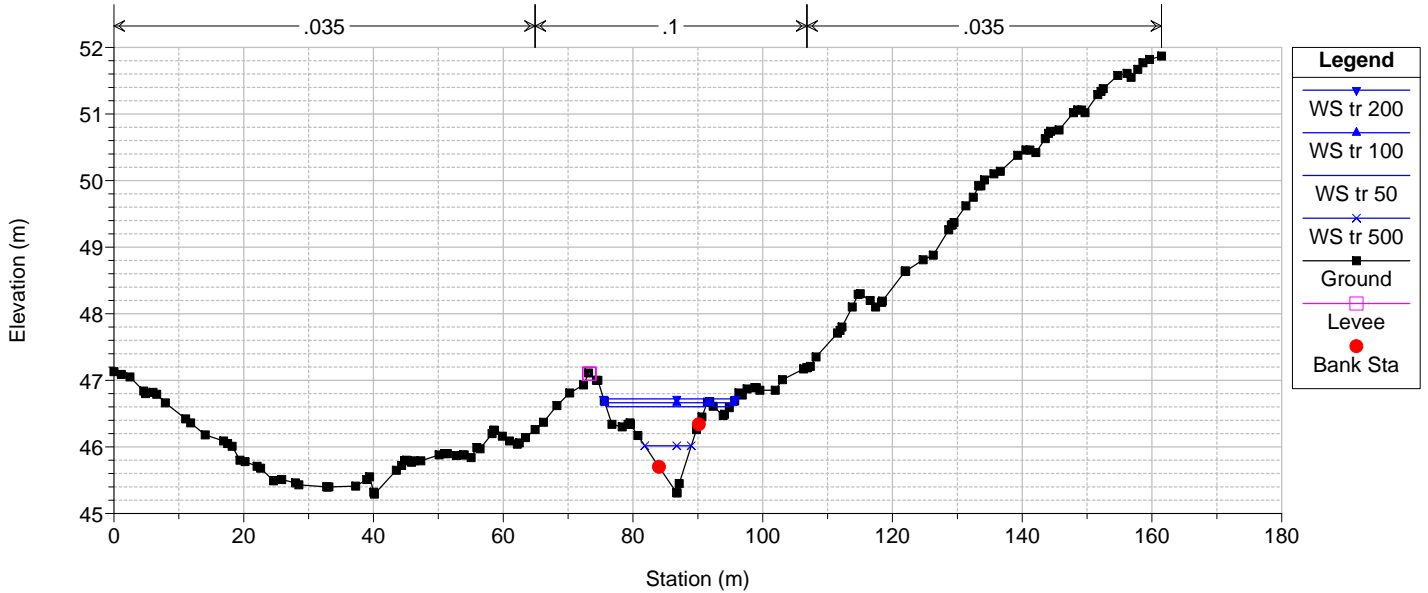
River = Rio Scamungia Reach = Asta 1 RS = 1650 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

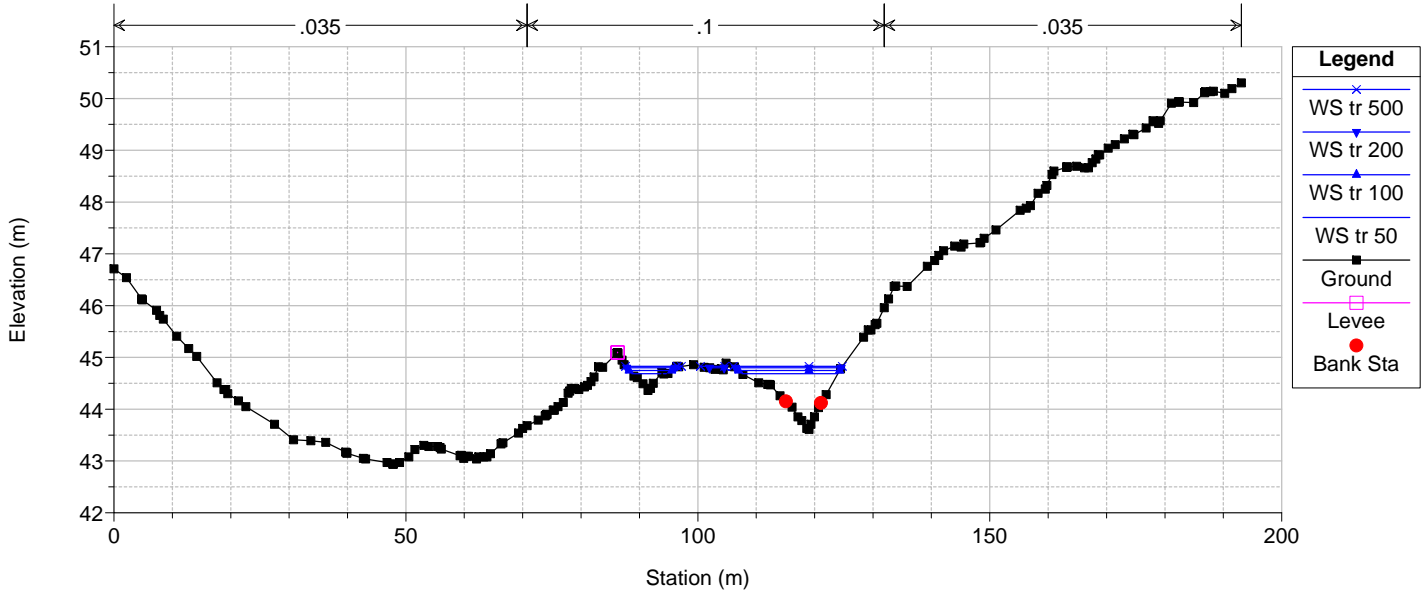
River = Rio Scamungia Reach = Asta 1 RS = 1589.547 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

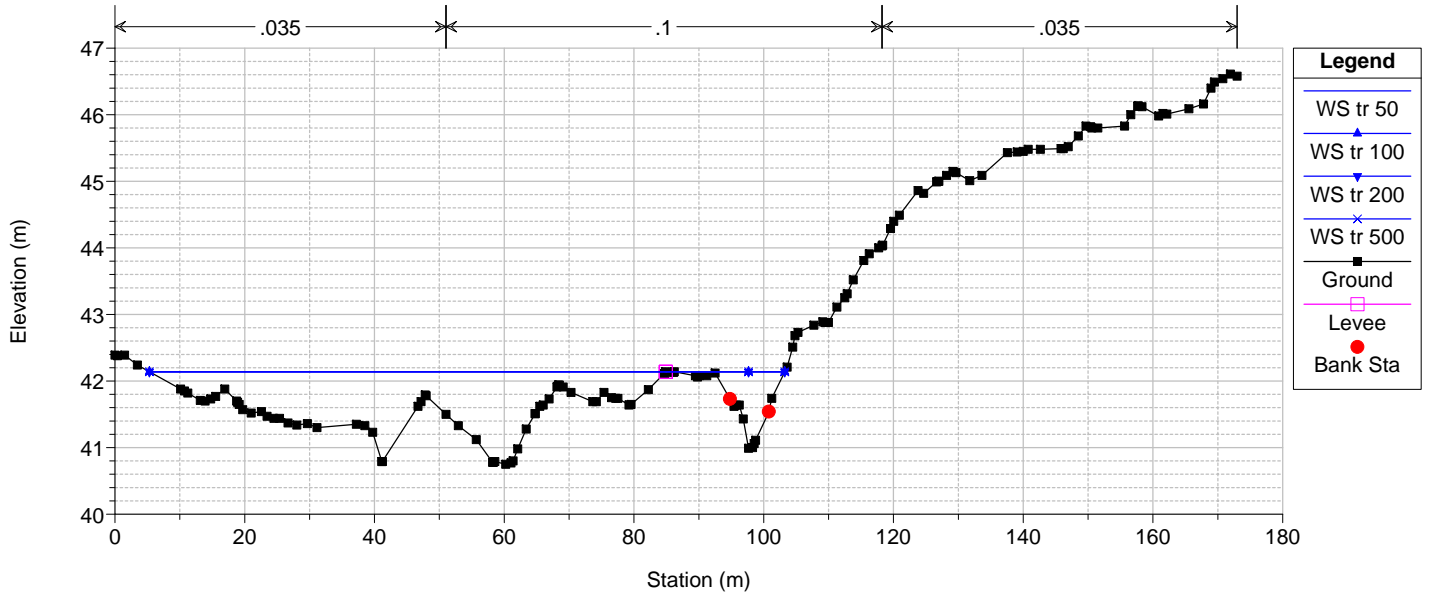
River = Rio Scamungia Reach = Asta 1 RS = 1550 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

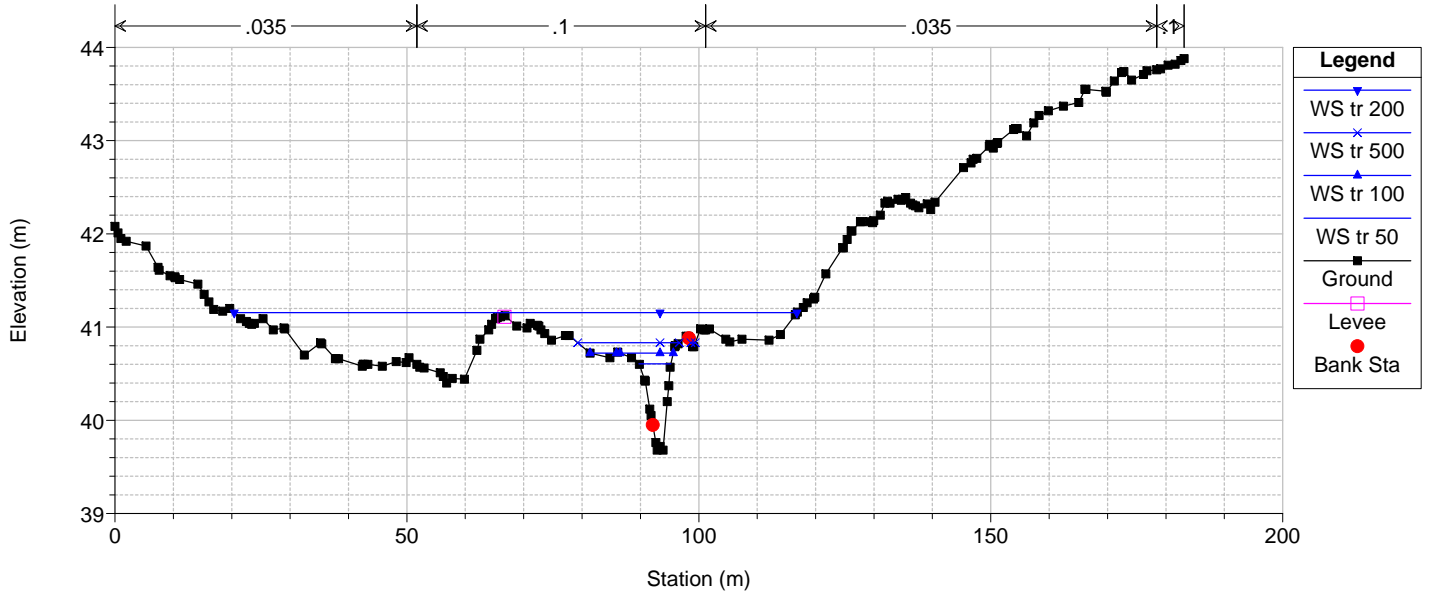
River = Rio Scamungia Reach = Asta 1 RS = 1506.602 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

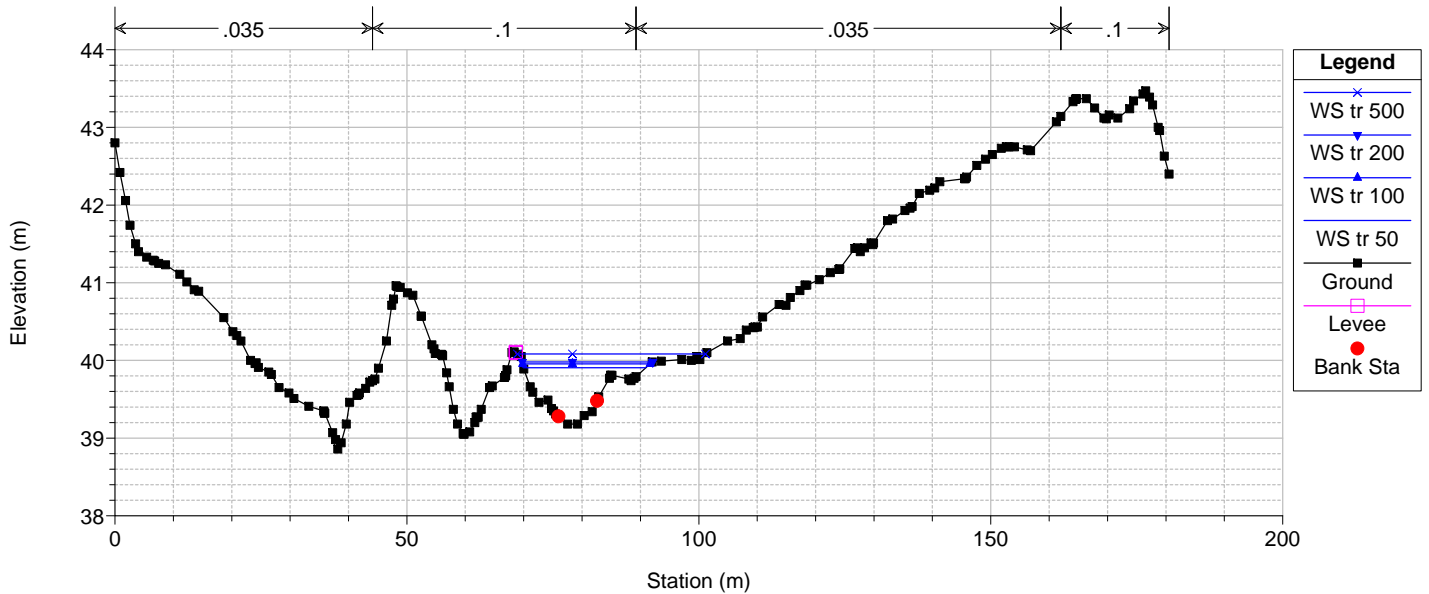
River = Rio Scamungia Reach = Asta 1 RS = 1468.003 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

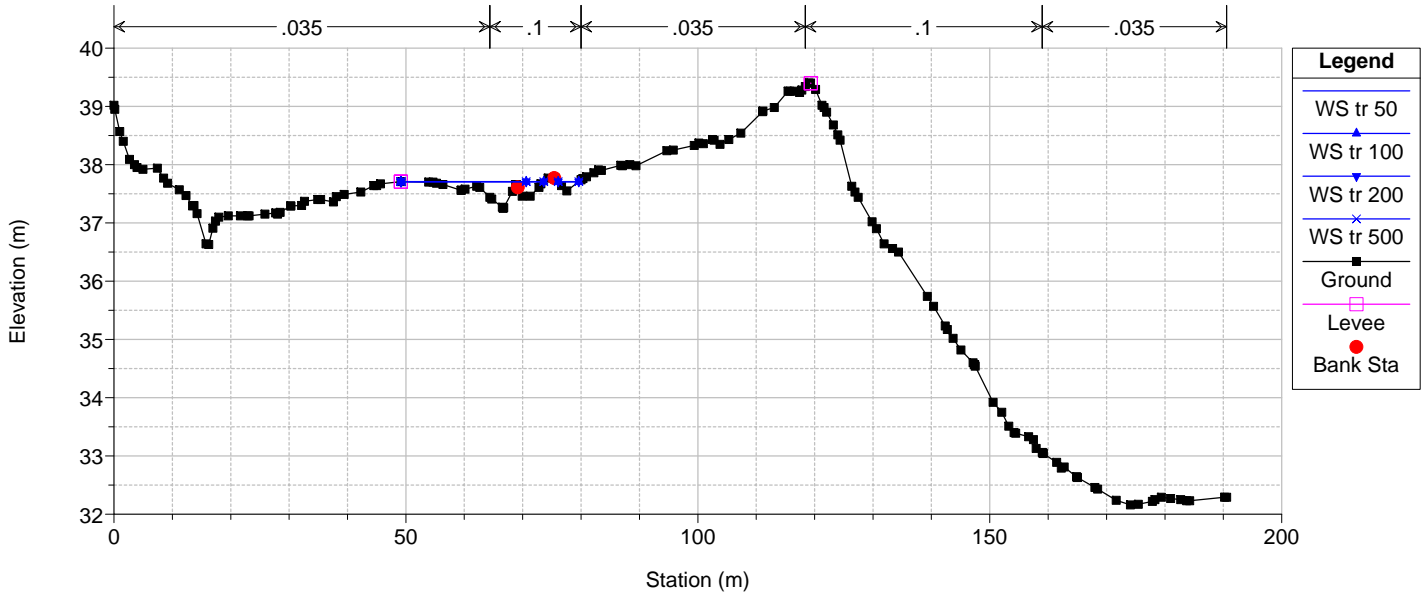
River = Rio Scamungia Reach = Asta 1 RS = 1446.65 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

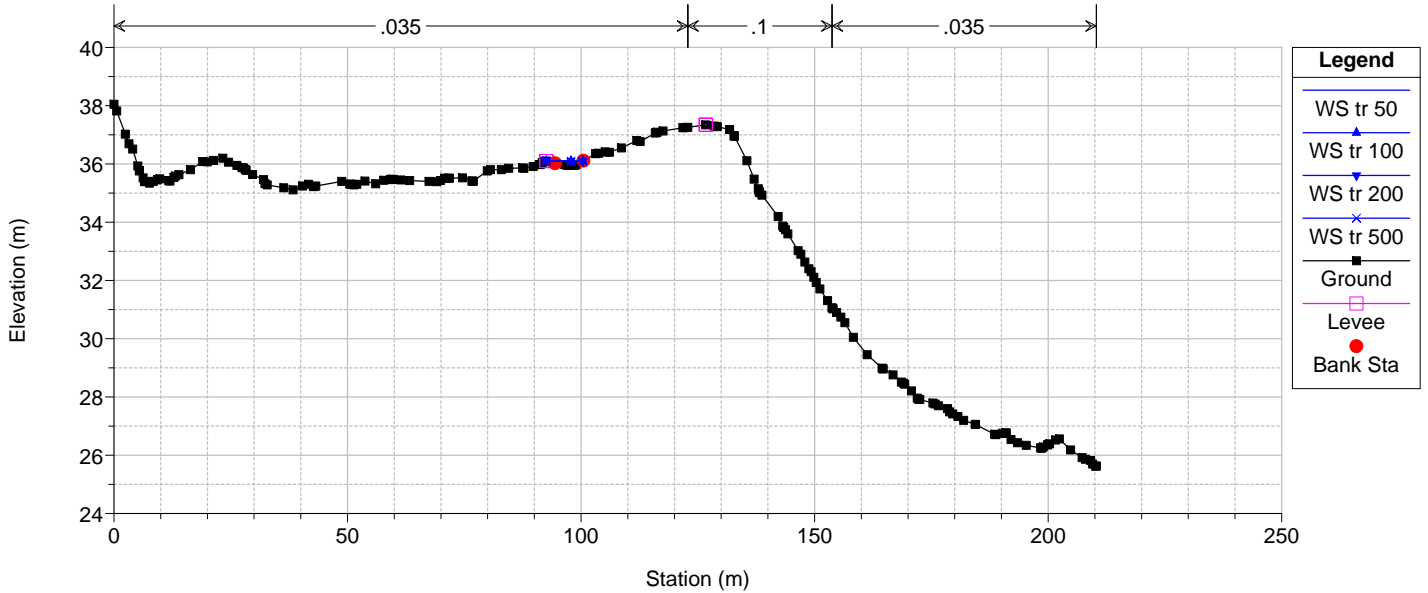
River = Rio Scamungia Reach = Asta 1 RS = 1403.097 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

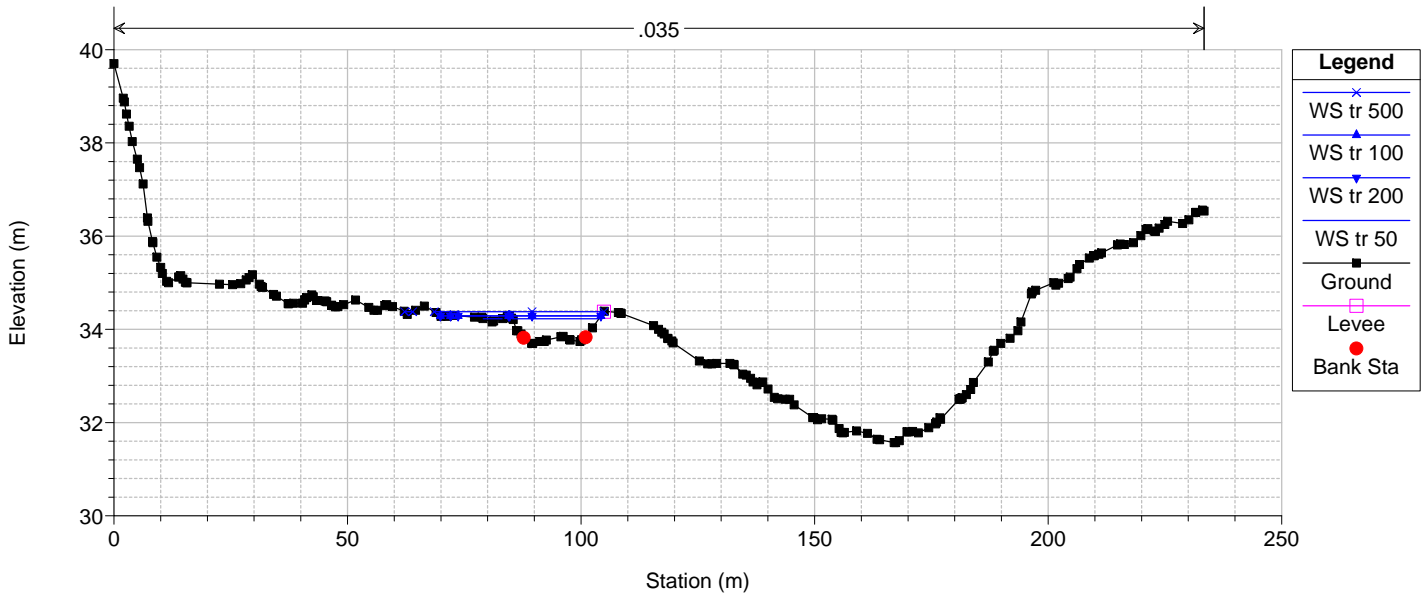
River = Rio Scamungia Reach = Asta 1 RS = 1354.159 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

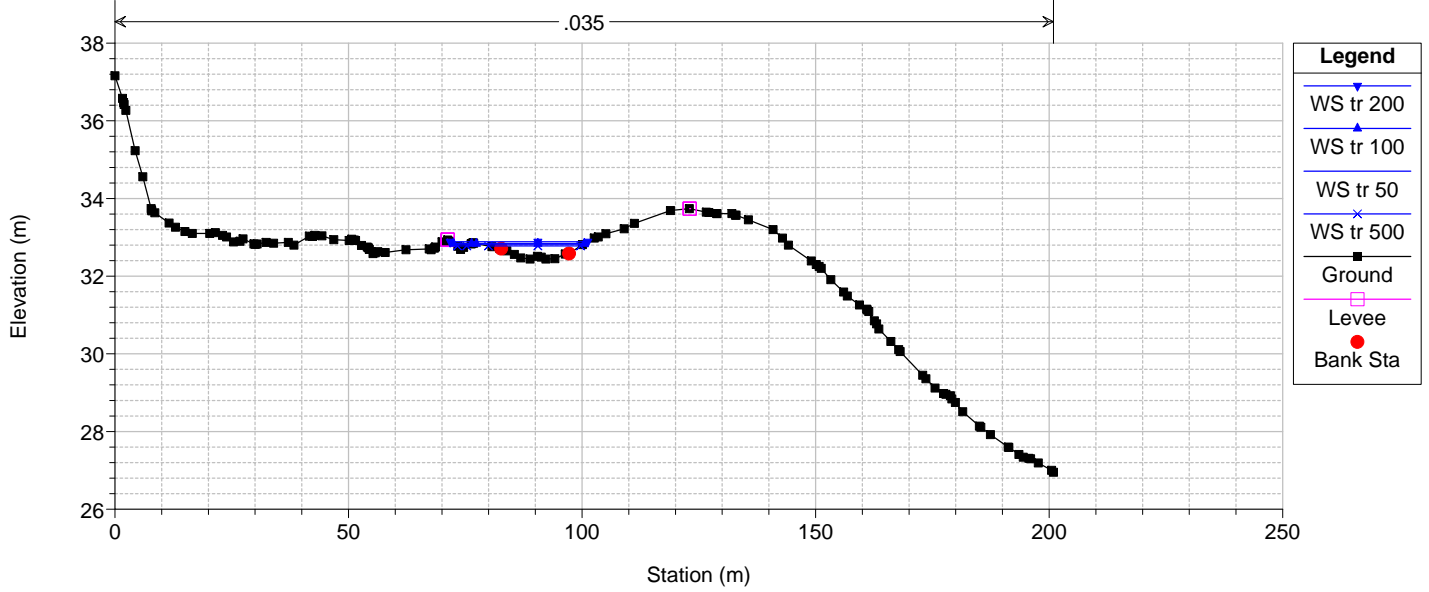
River = Rio Scamungia Reach = Asta 1 RS = 1302.055 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

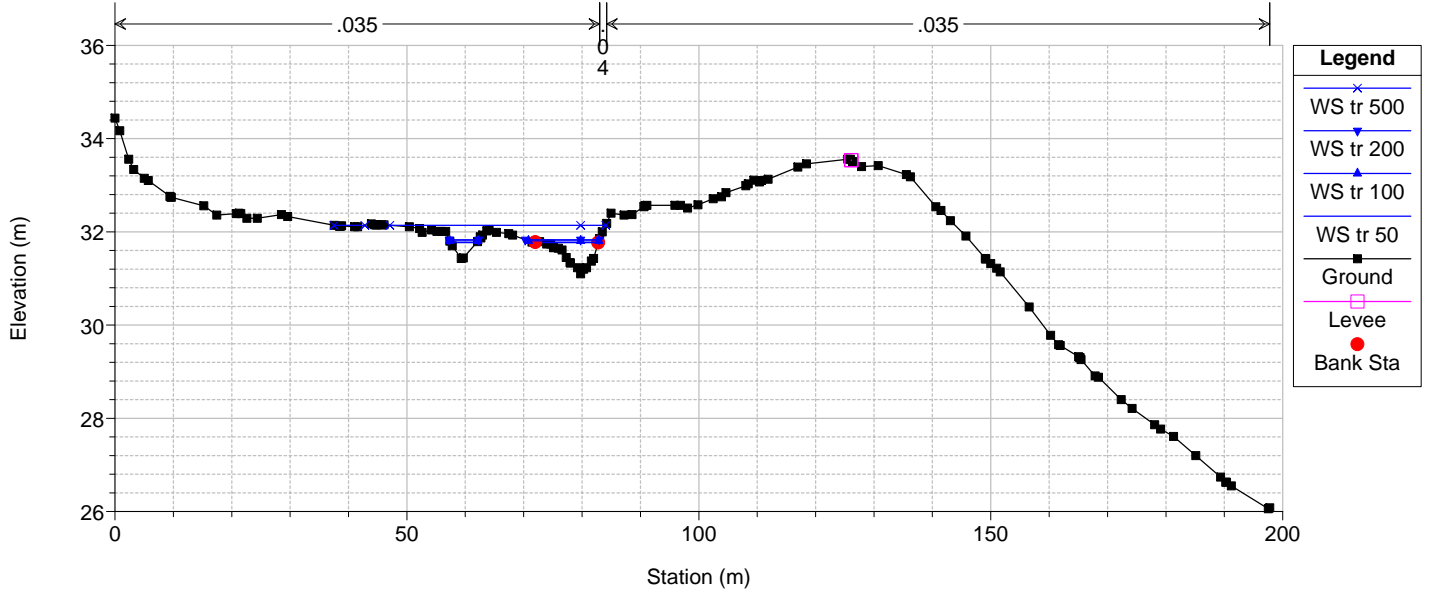
River = Rio Scamungia Reach = Asta 1 RS = 1260.668 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

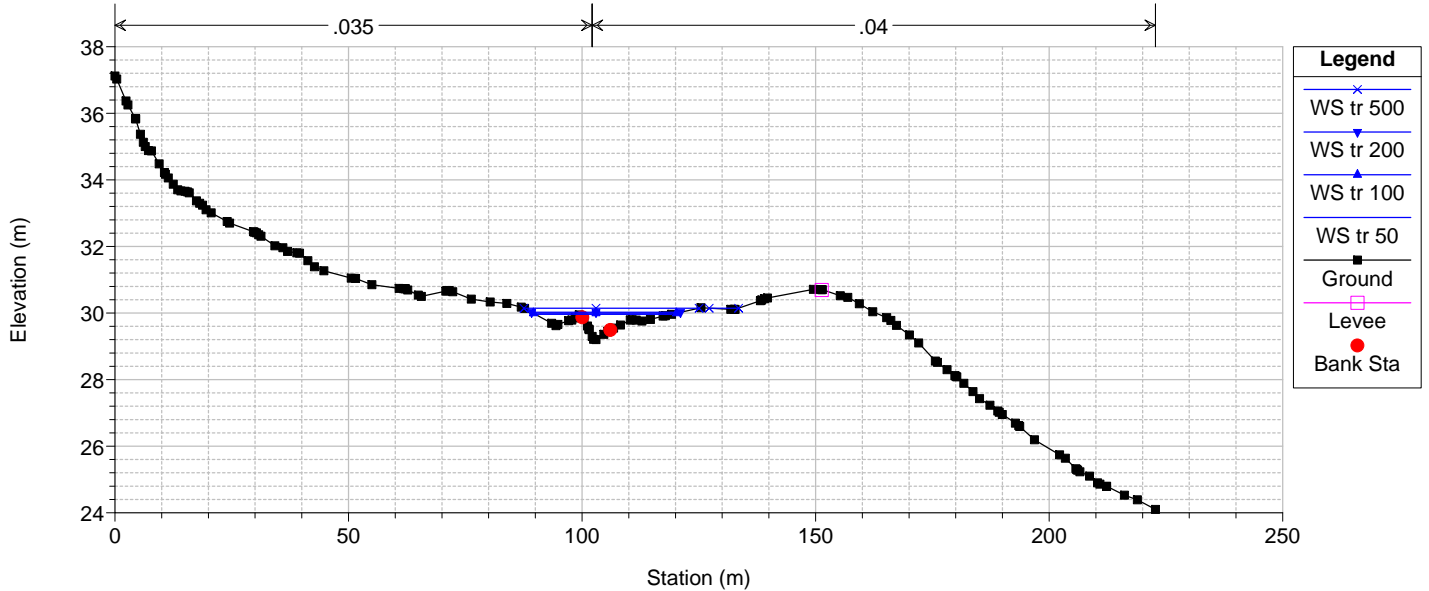
River = Rio Scamungia Reach = Asta 1 RS = 1250 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

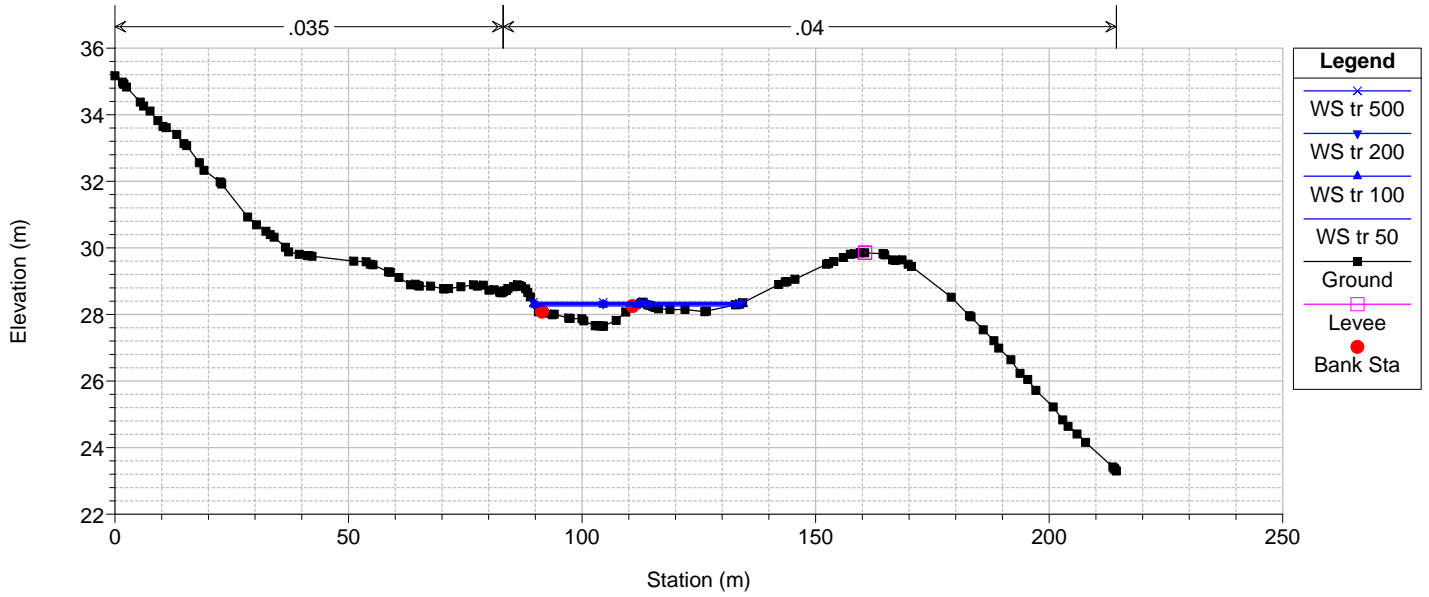
River = Rio Scamungia Reach = Asta 1 RS = 1196.73 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

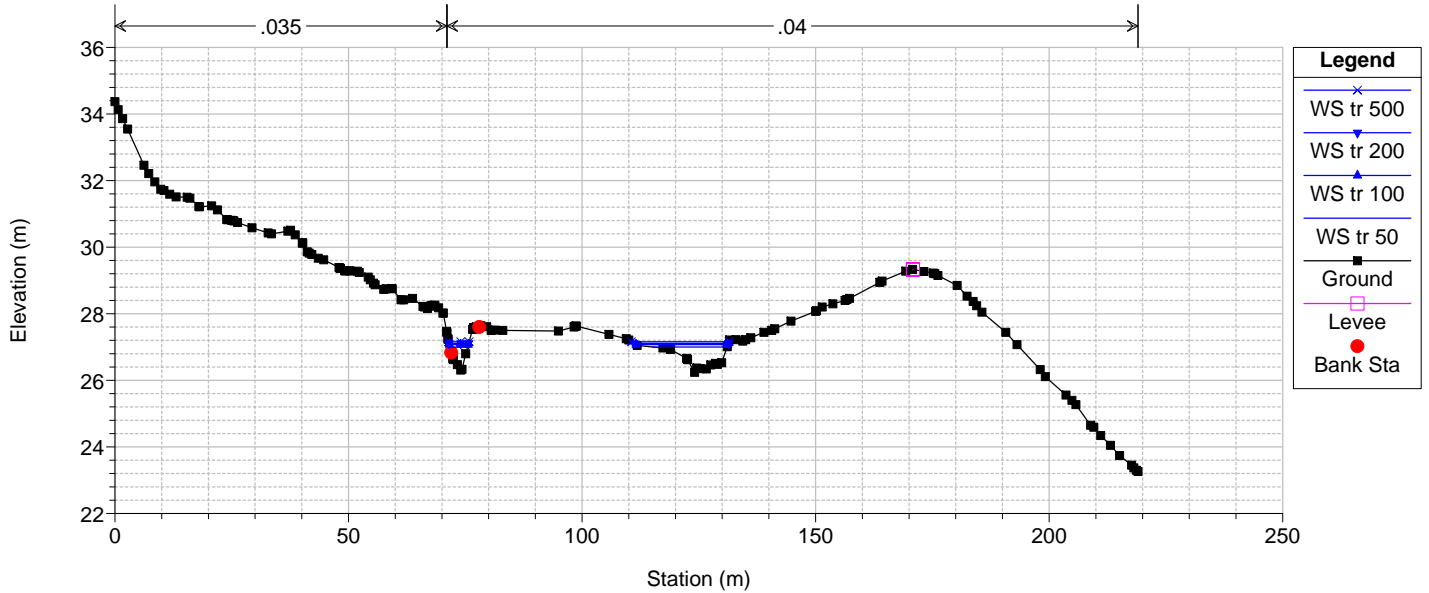
River = Rio Scamungia Reach = Asta 1 RS = 1145.341 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

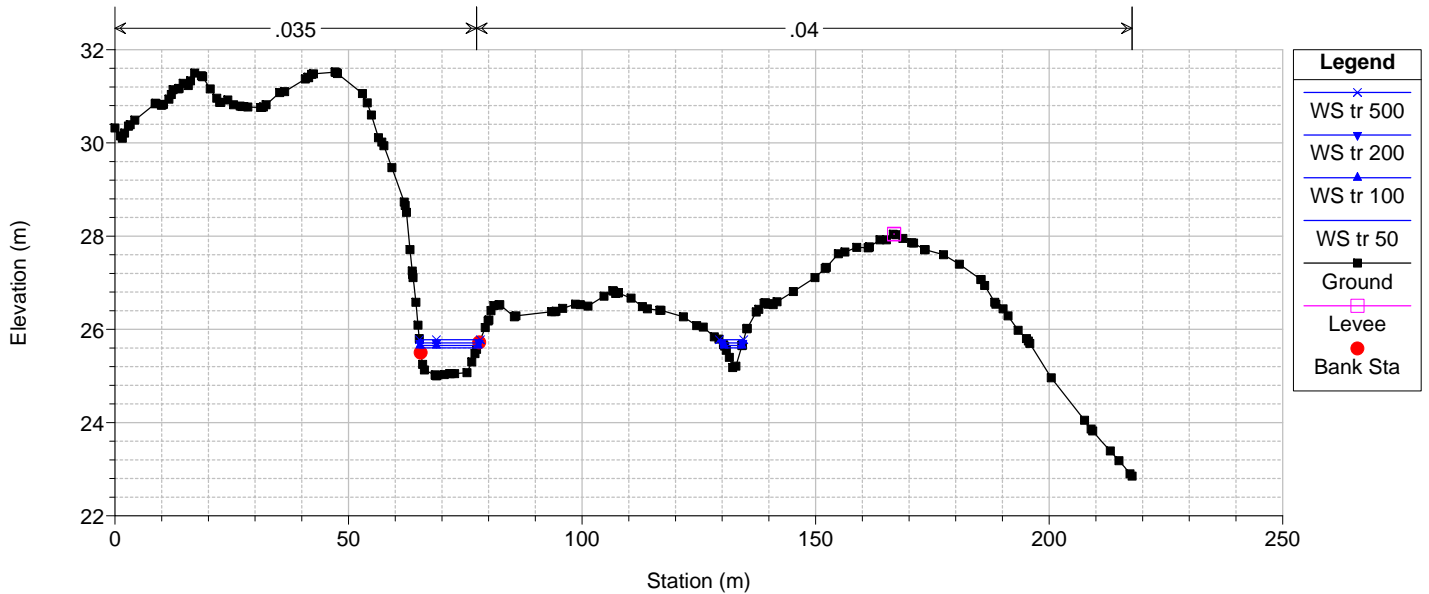
River = Rio Scamungia Reach = Asta 1 RS = 1100 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

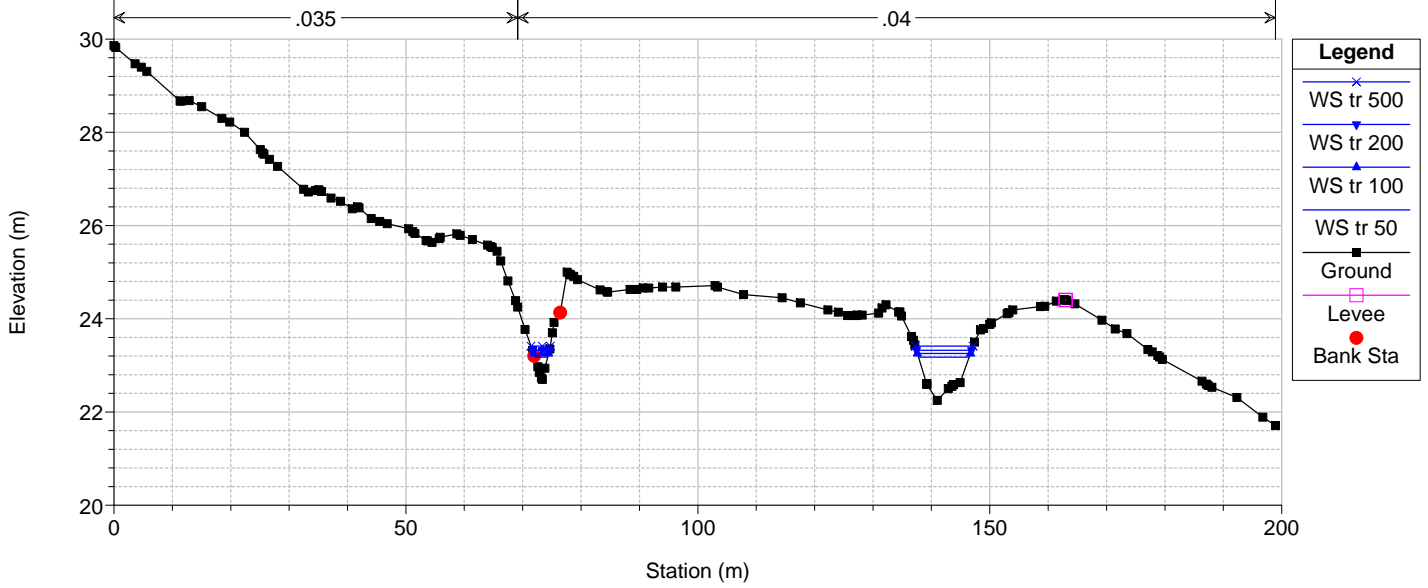
River = Rio Scamungia Reach = Asta 1 RS = 1050 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

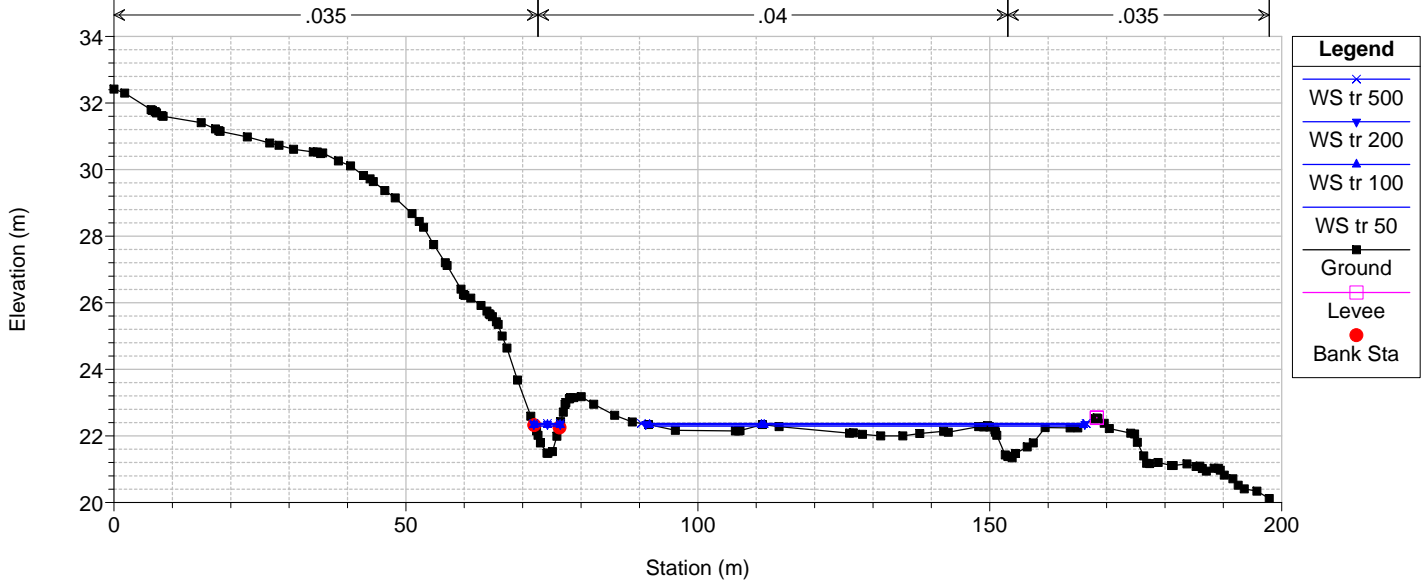
River = Rio Scamungia Reach = Asta 1 RS = 1000 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

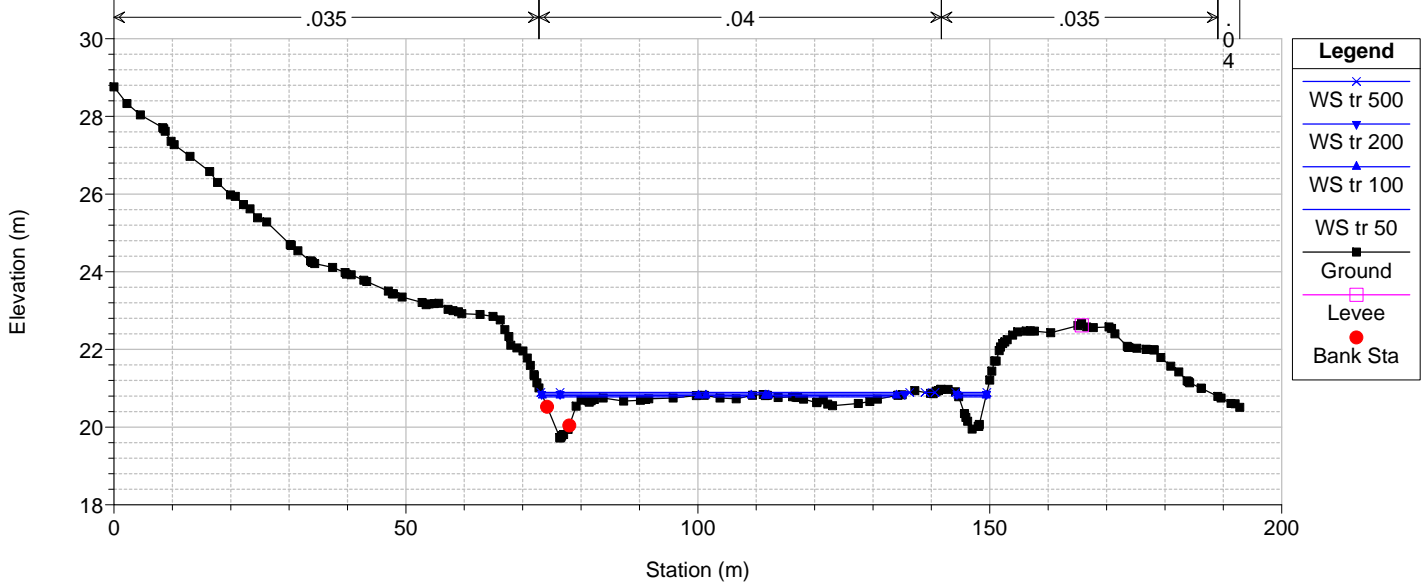
River = Rio Scamungia Reach = Asta 1 RS = 950 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

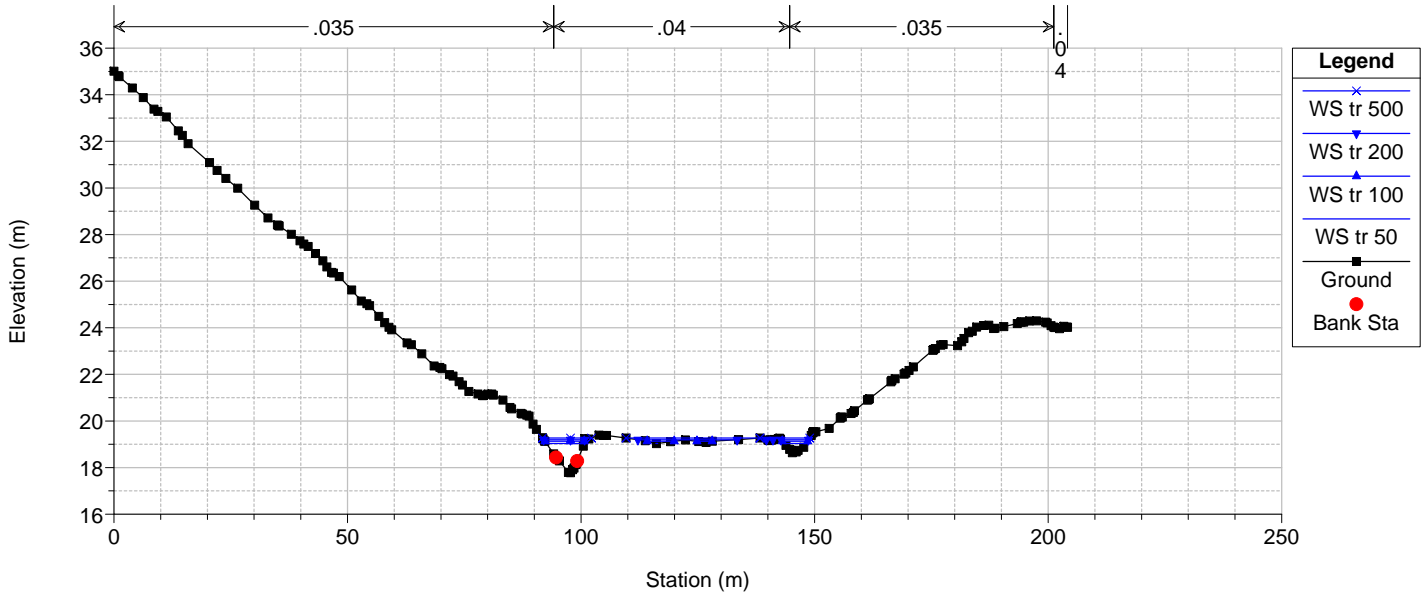
River = Rio Scamungia Reach = Asta 1 RS = 899.9999 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

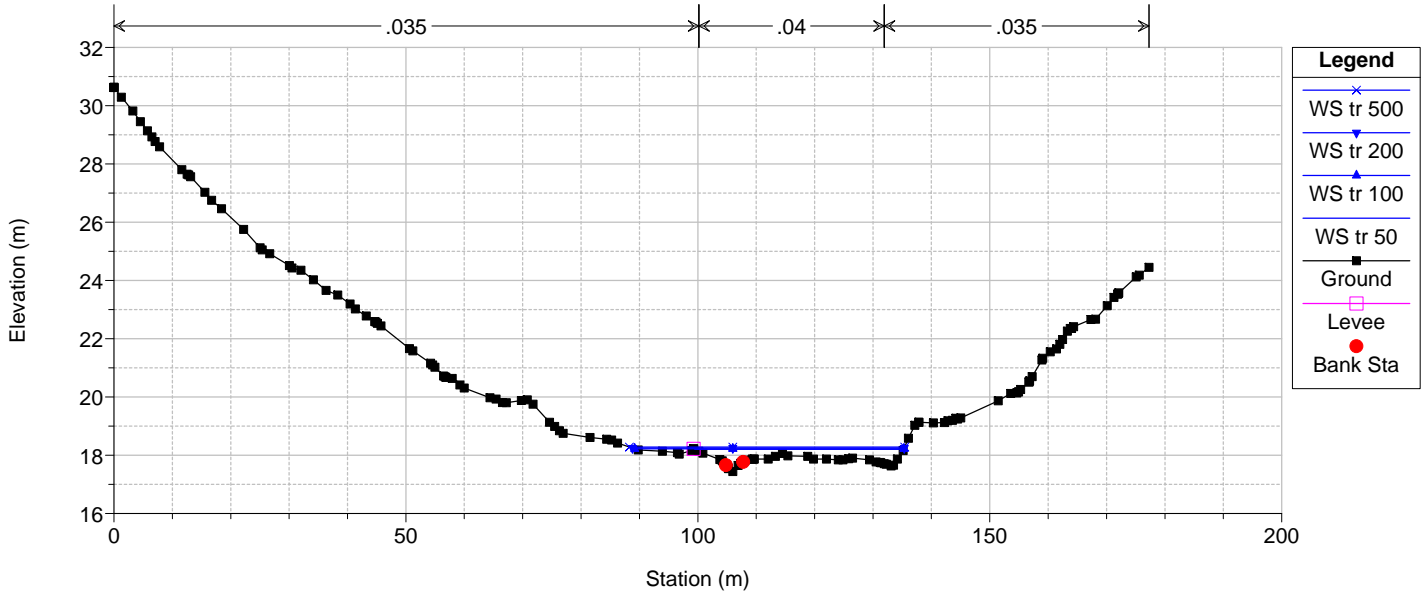
River = Rio Scamungia Reach = Asta 1 RS = 851.7595 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

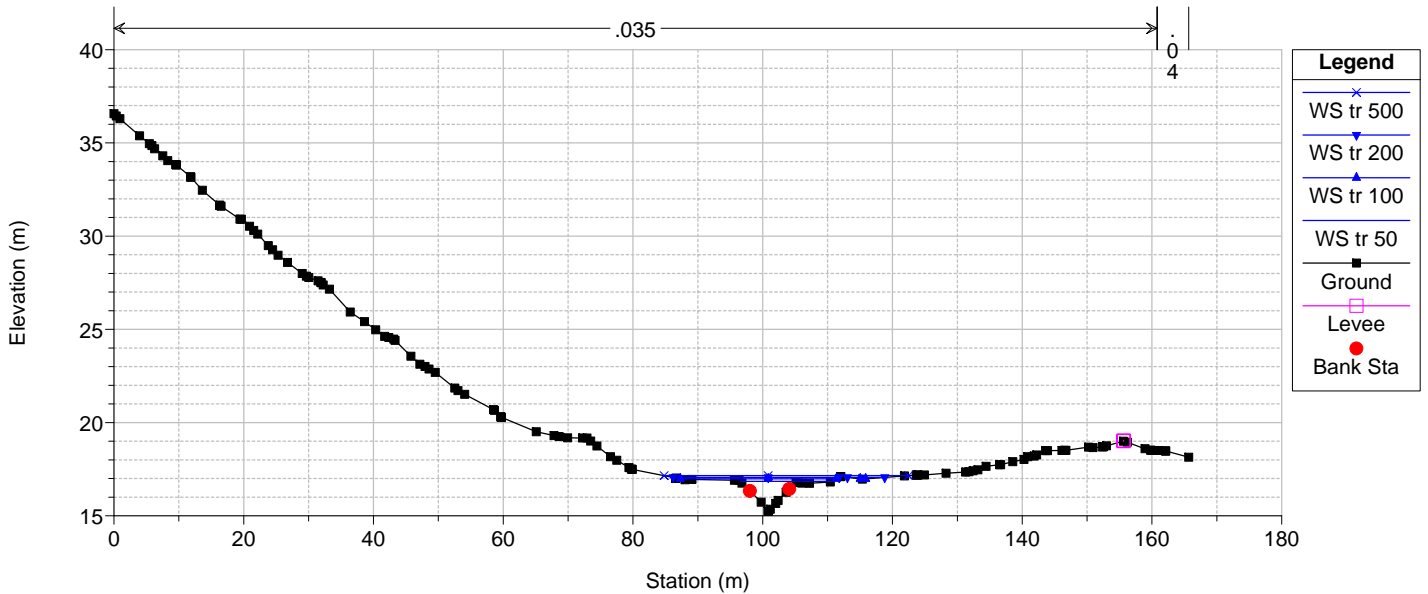
River = Rio Scamungia Reach = Asta 1 RS = 802.1884 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

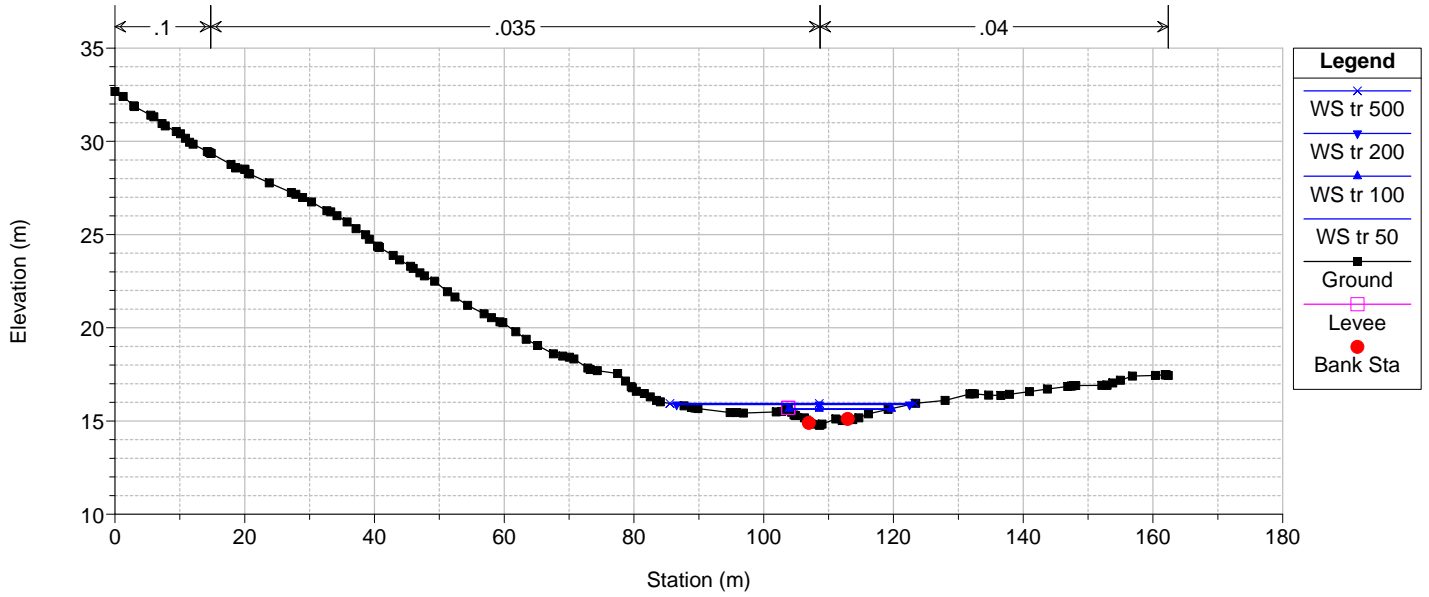
River = Rio Scamungia Reach = Asta 1 RS = 751.9952 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

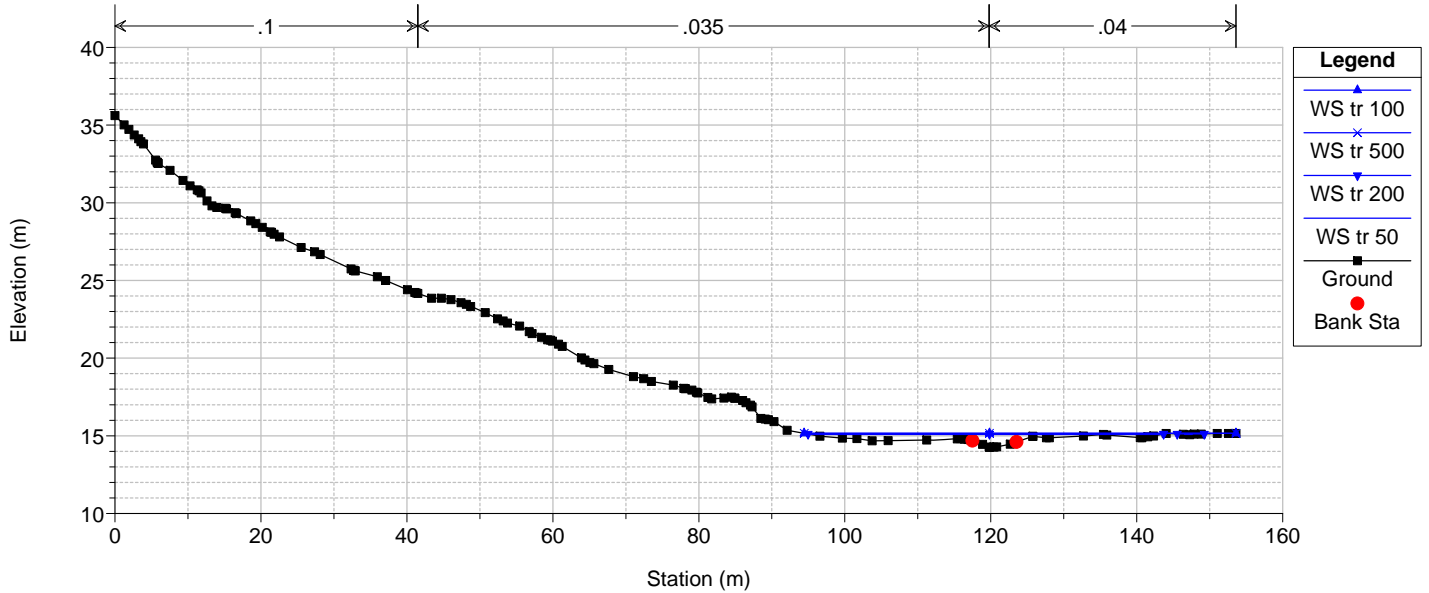
River = Rio Scamungia Reach = Asta 1 RS = 700.7482 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

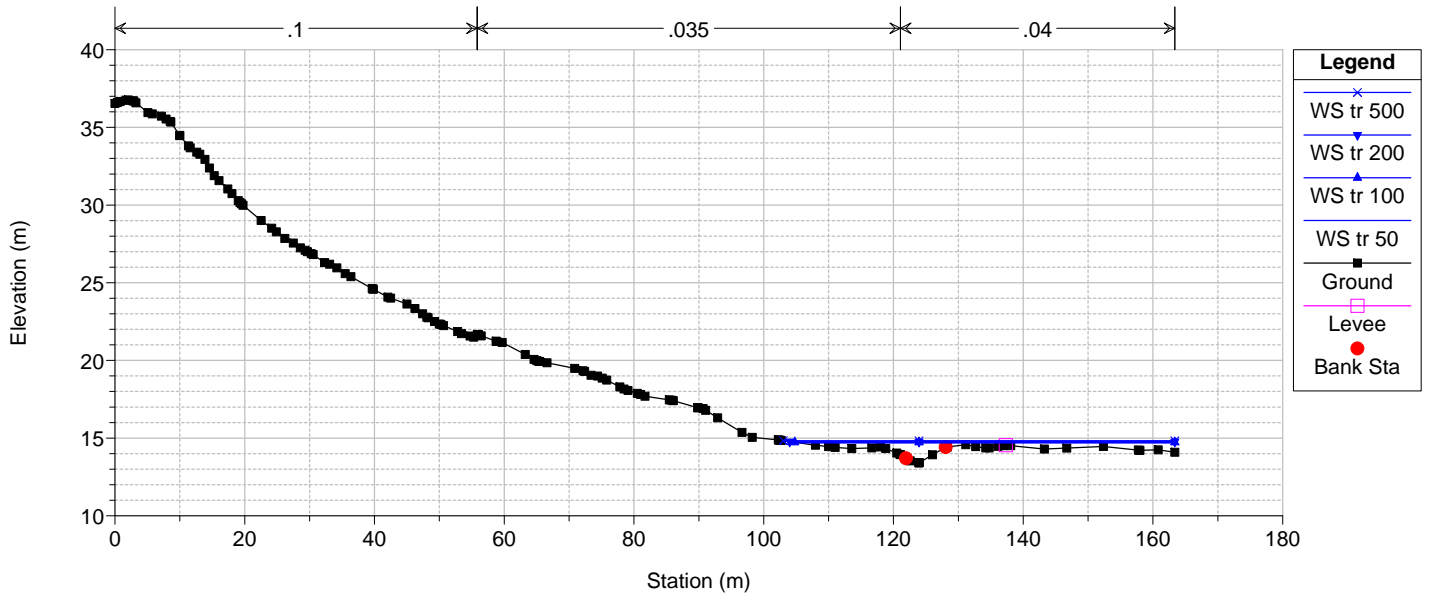
River = Rio Scamungia Reach = Asta 1 RS = 672.5763 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

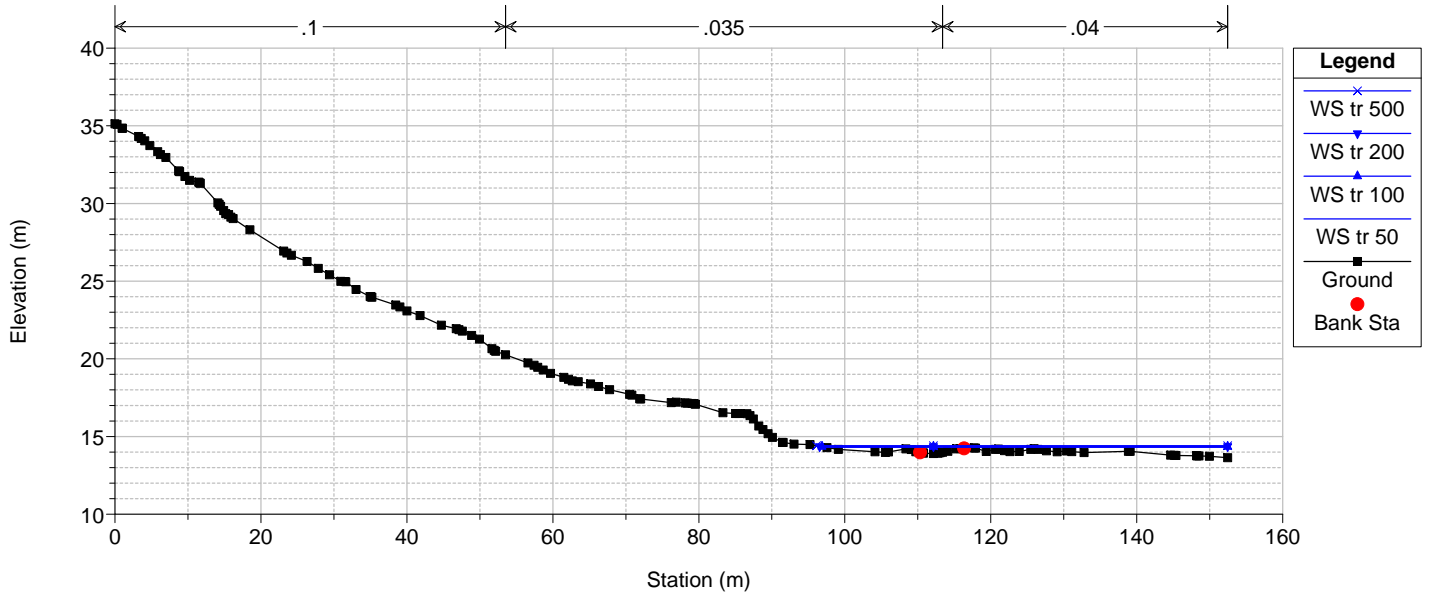
River = Rio Scamungia Reach = Asta 1 RS = 653.0841 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

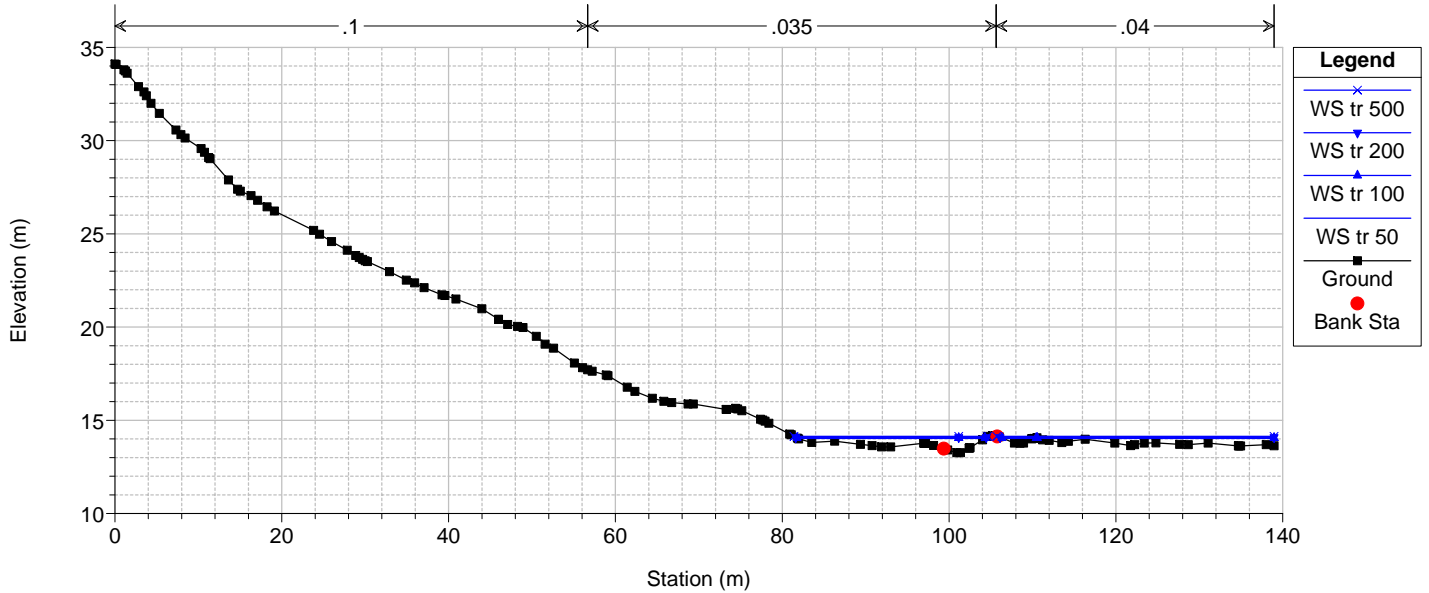
River = Rio Scamungia Reach = Asta 1 RS = 638.2894 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

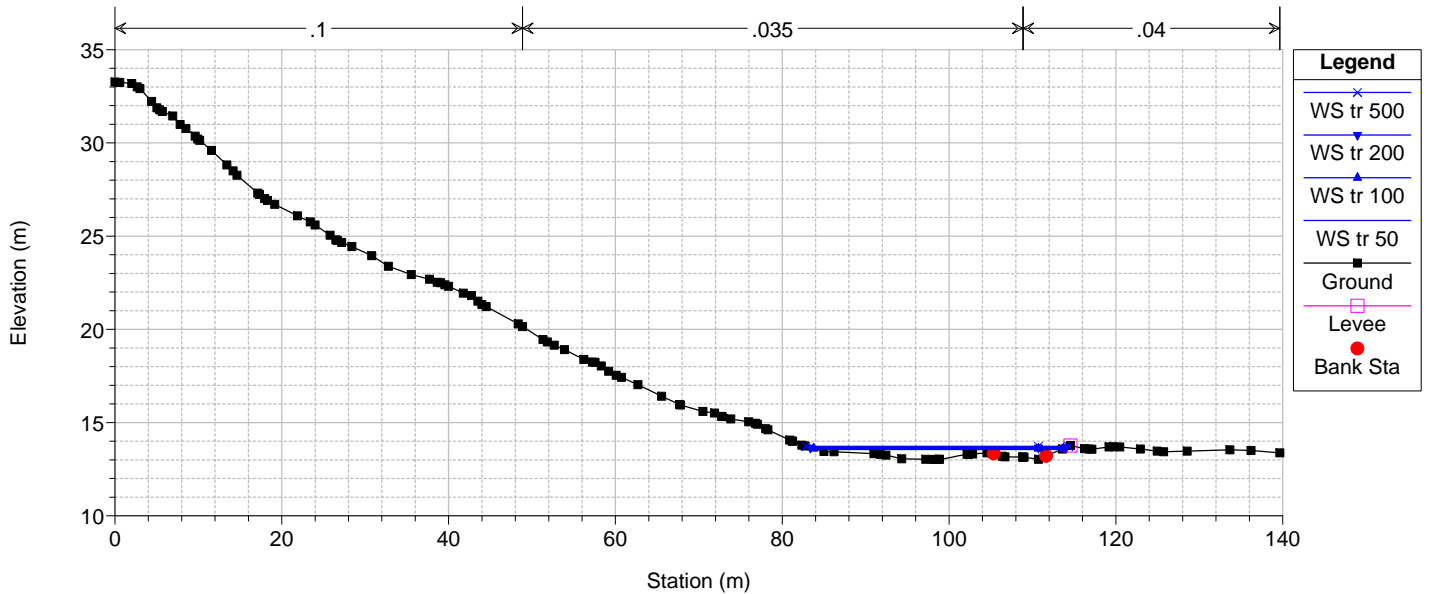
River = Rio Scamungia Reach = Asta 1 RS = 620.6164 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

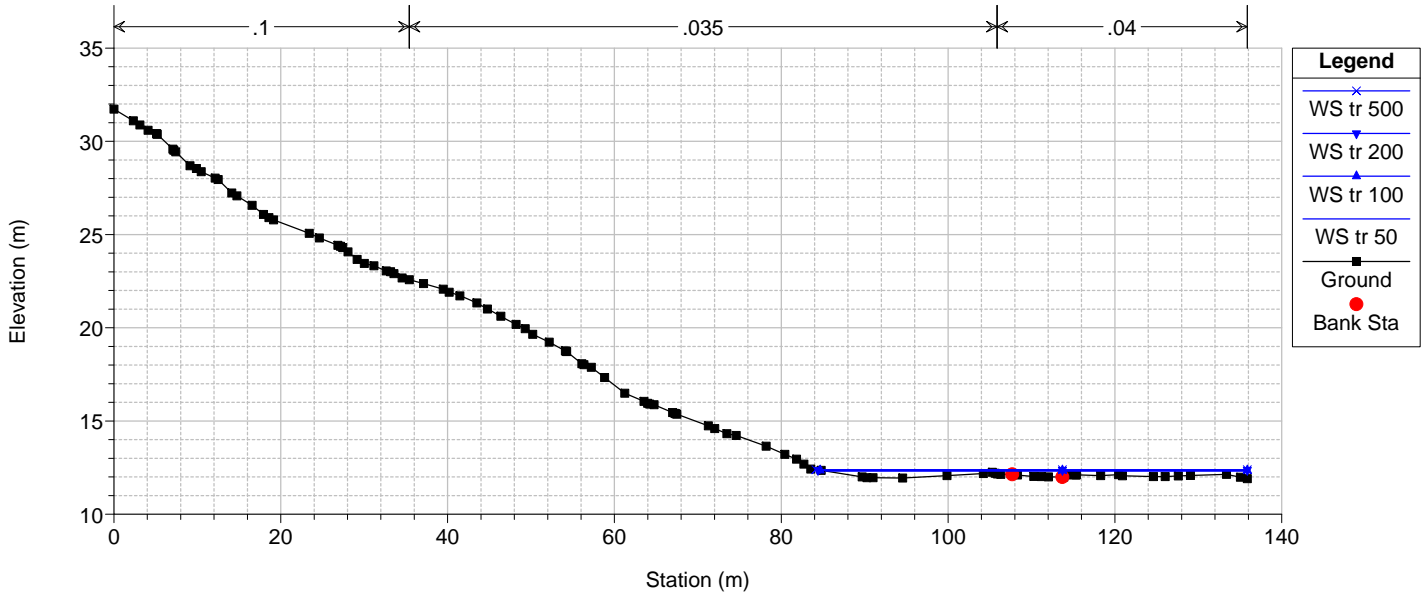
River = Rio Scamungia Reach = Asta 1 RS = 608.2032 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

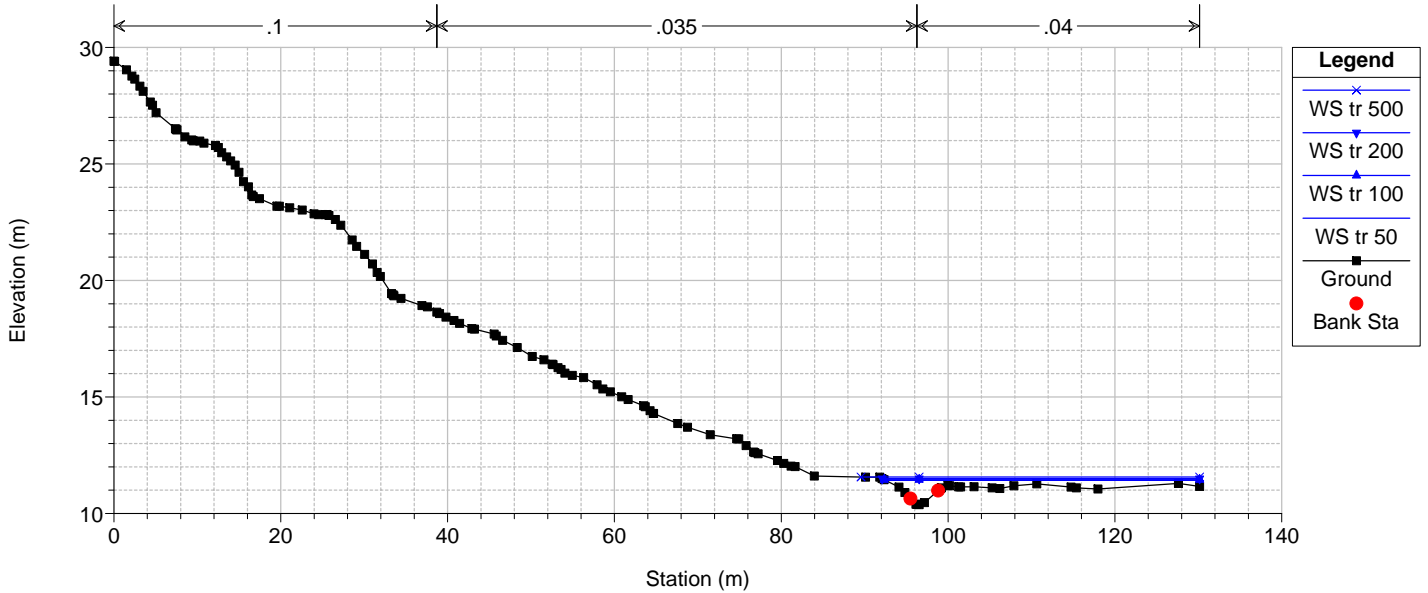
River = Rio Scamungia Reach = Asta 1 RS = 557.7609 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

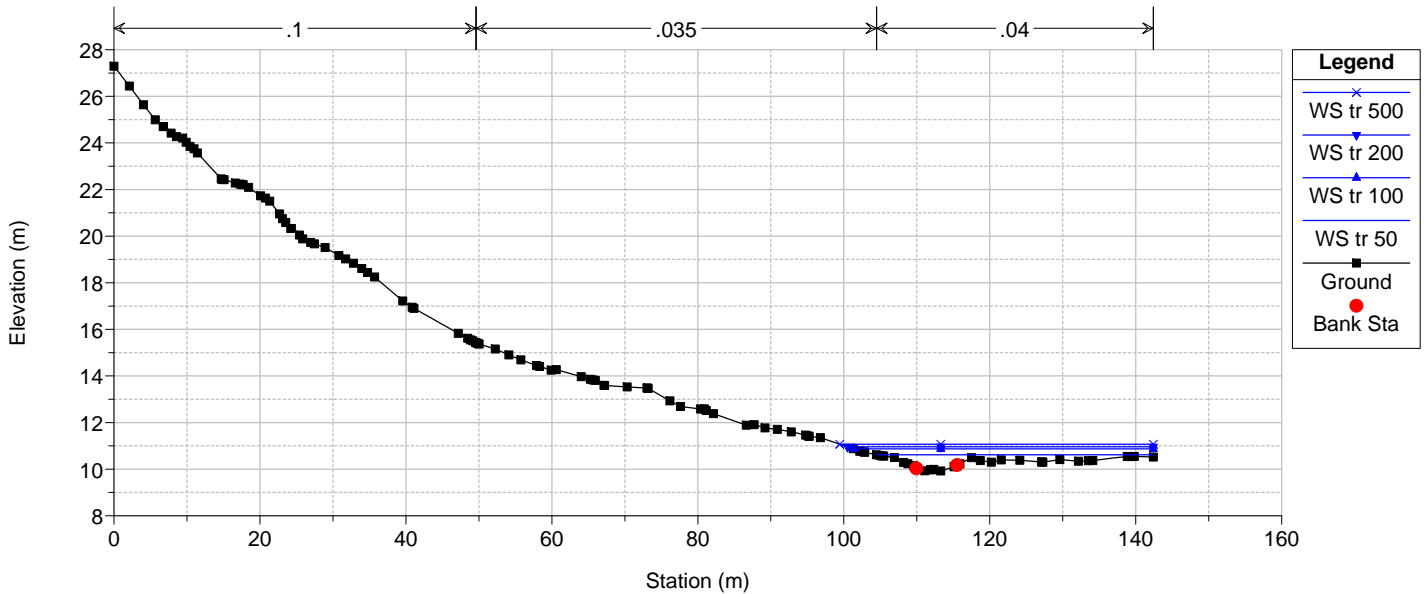
River = Rio Scamungia Reach = Asta 1 RS = 527.76 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

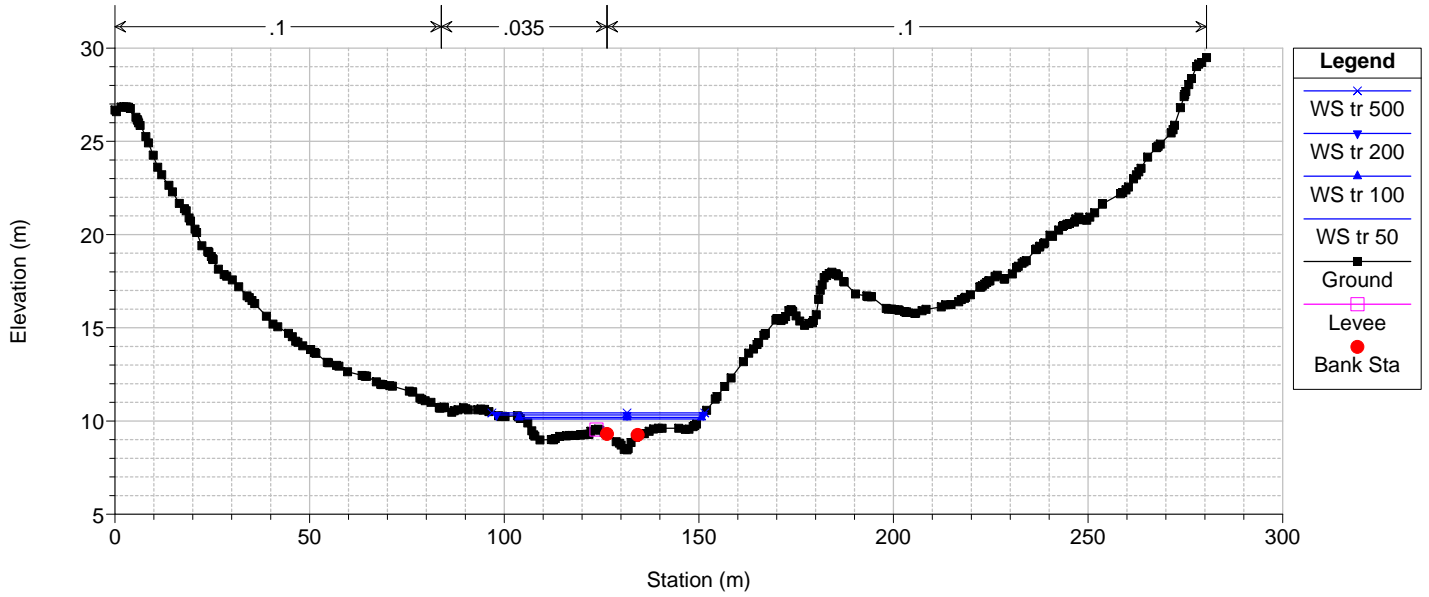
River = Rio Scamungia Reach = Asta 1 RS = 497.872 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

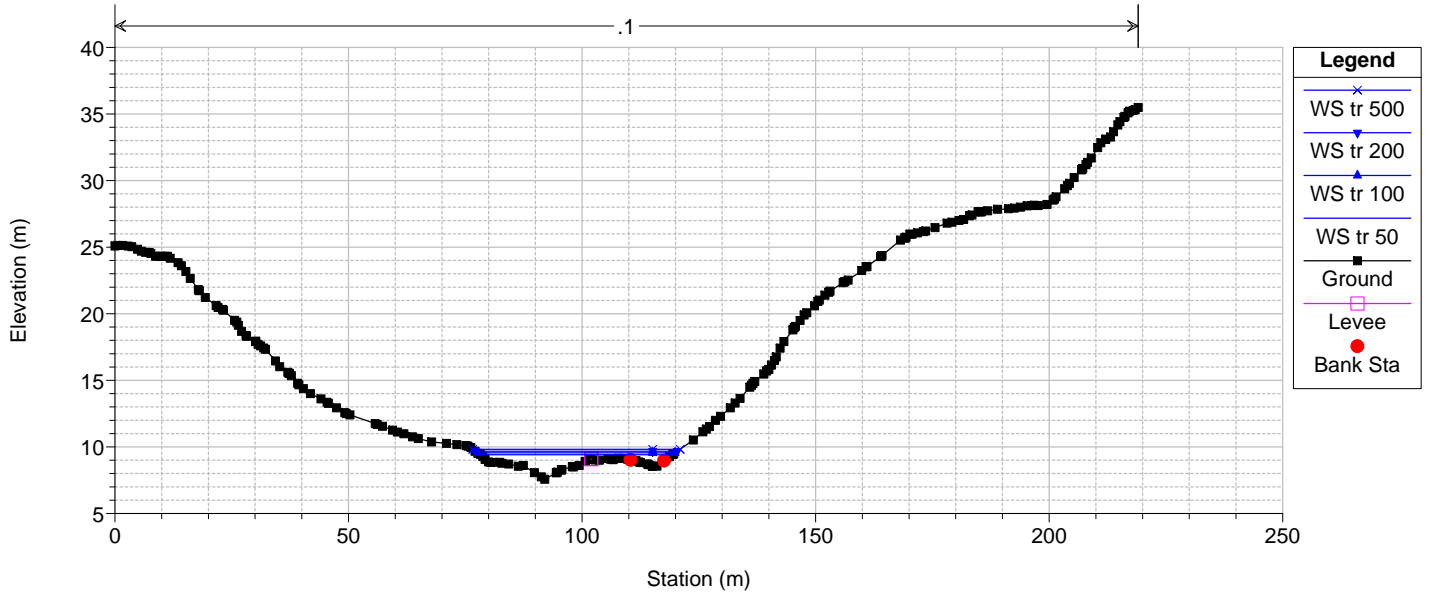
River = Rio Scamungia Reach = Asta 2 RS = 441.9154 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

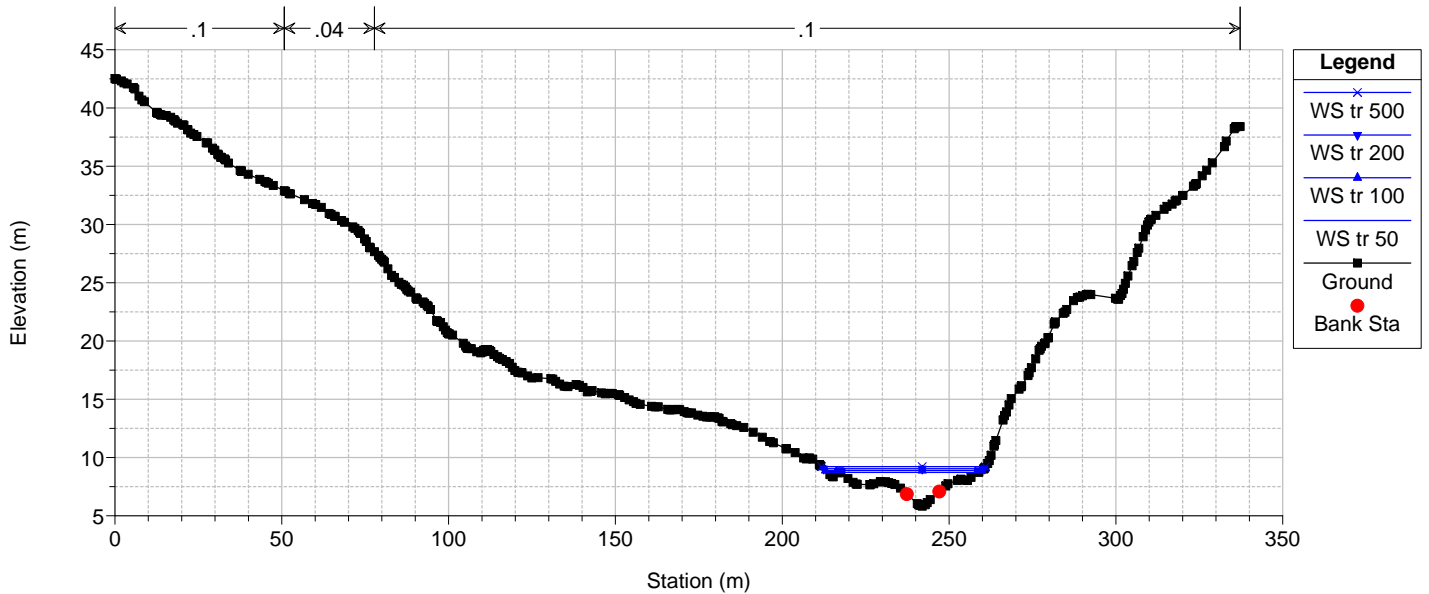
River = Rio Scamungia Reach = Asta 2 RS = 406.1731 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

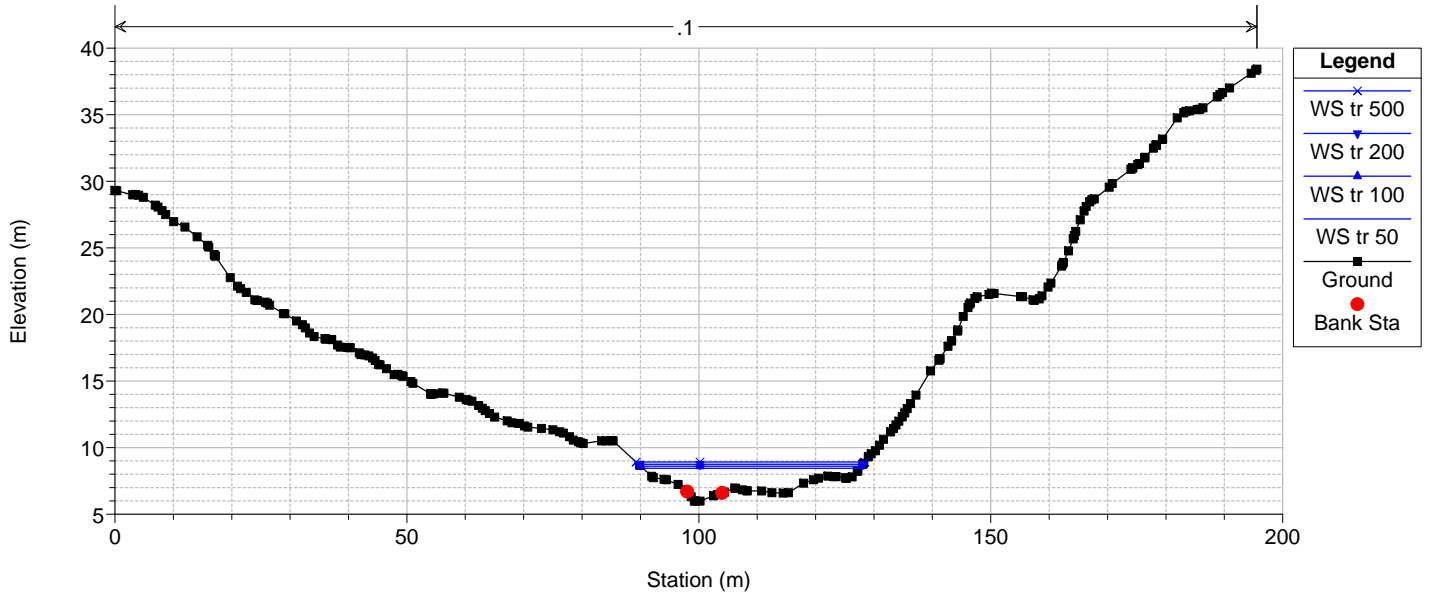
River = Rio Scamungia Reach = Asta 2 RS = 363.3358 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

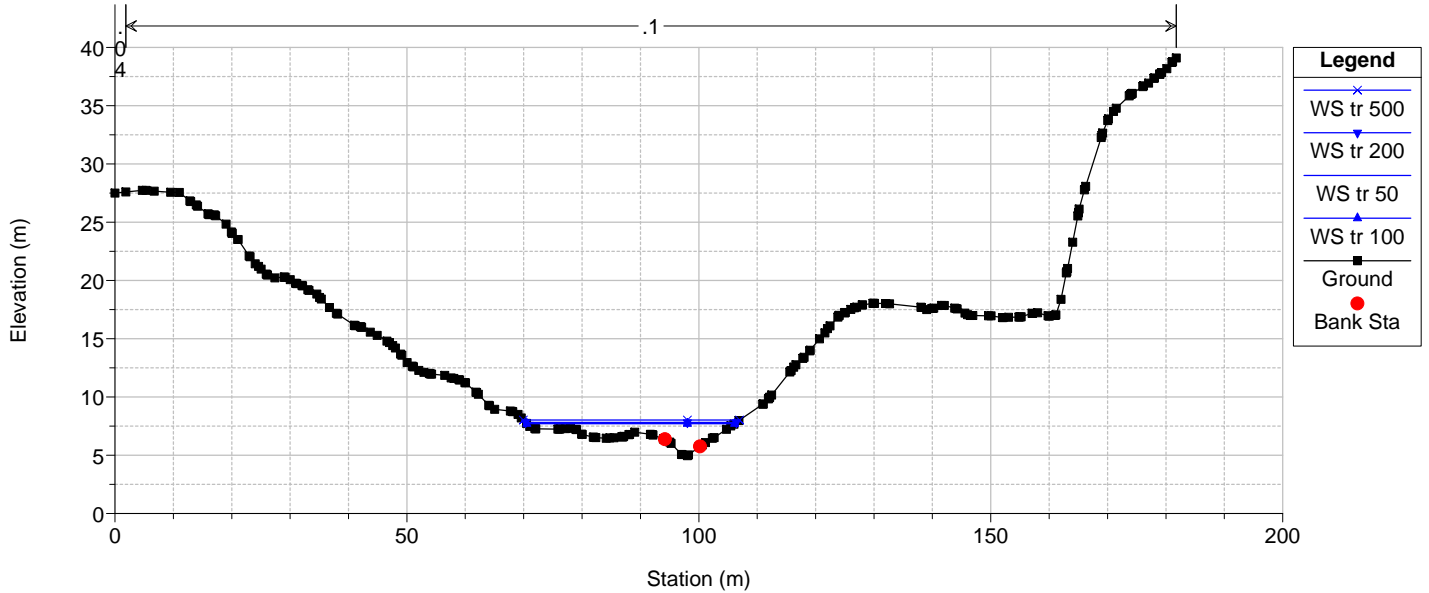
River = Rio Scamungia Reach = Asta 2 RS = 331.3708 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

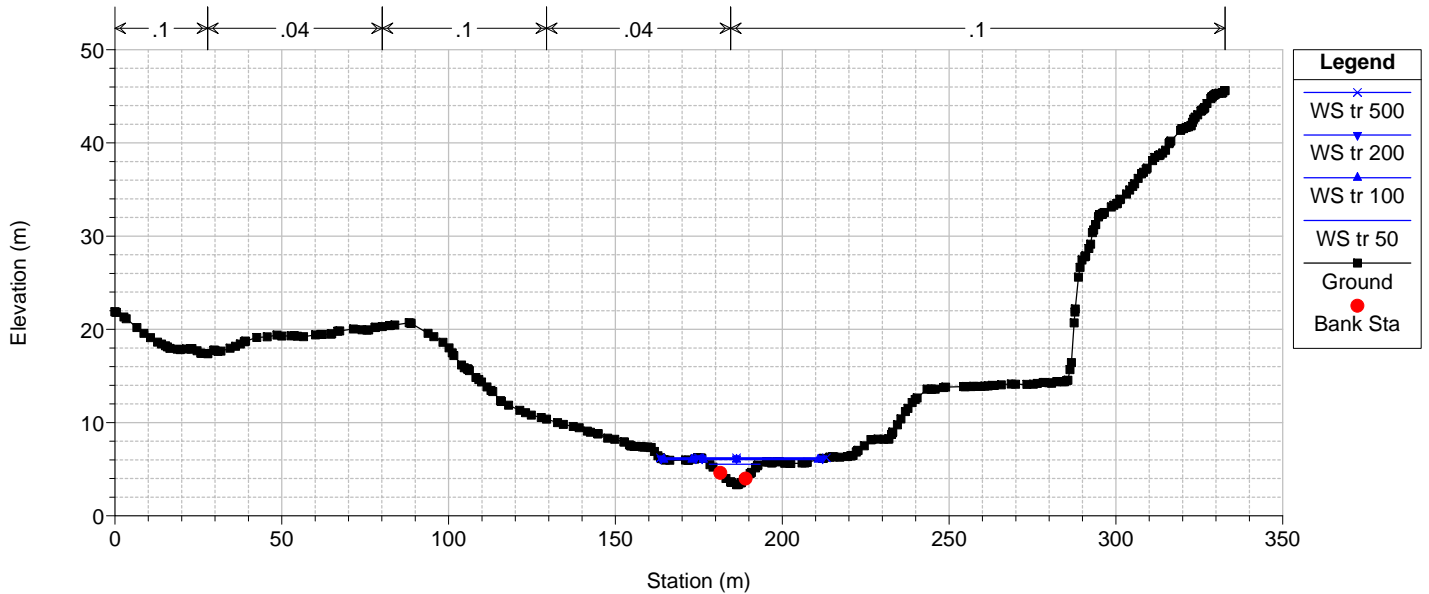
River = Rio Scamungia Reach = Asta 2 RS = 280.3926 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

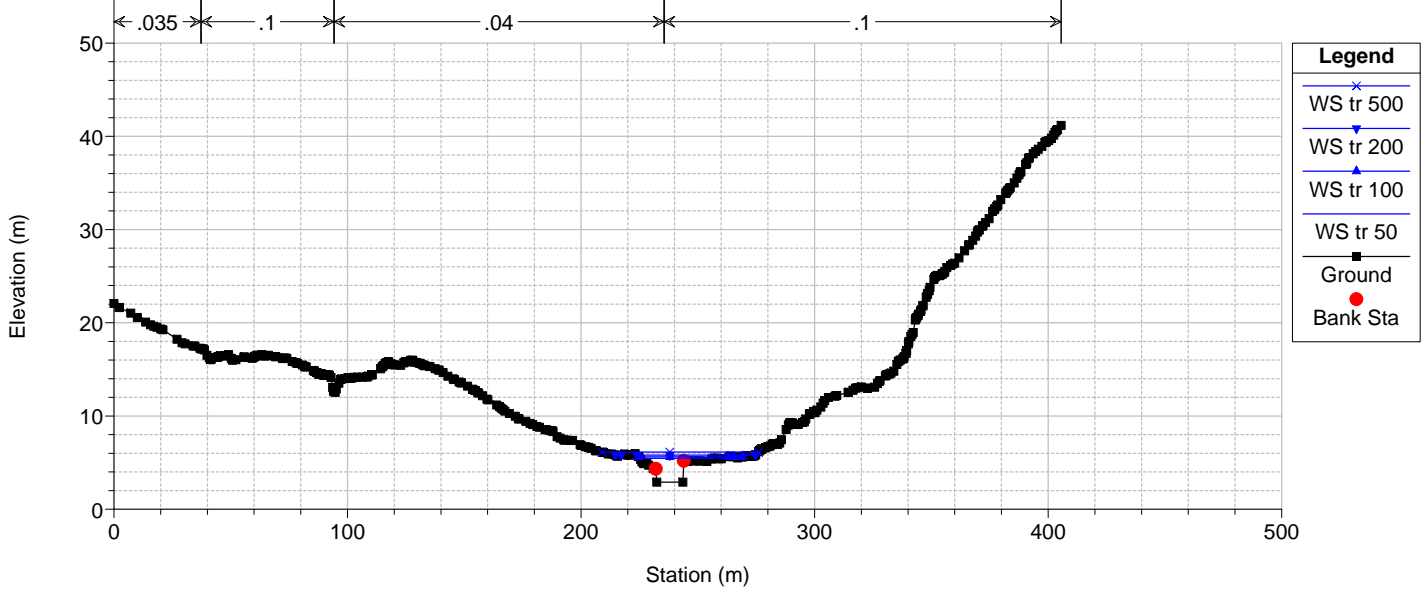
River = Rio Scamungia Reach = Asta 2 RS = 216.0257 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

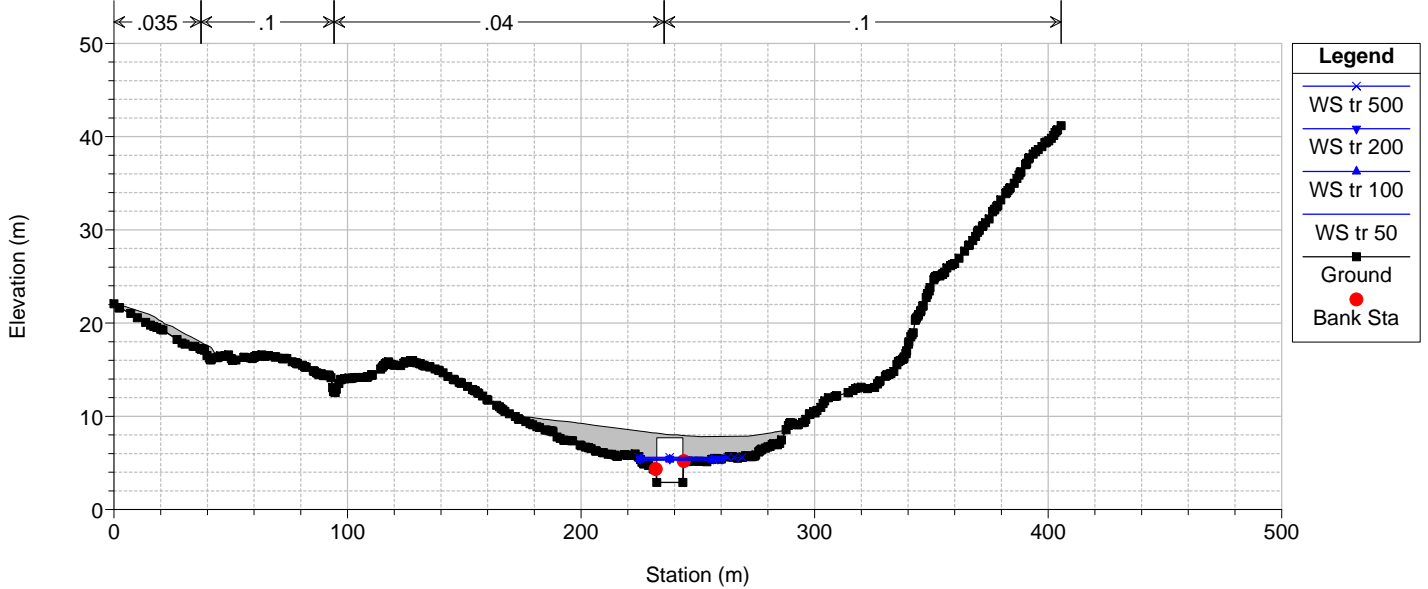
River = Rio Scamungia Reach = Asta 2 RS = 191.4055 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

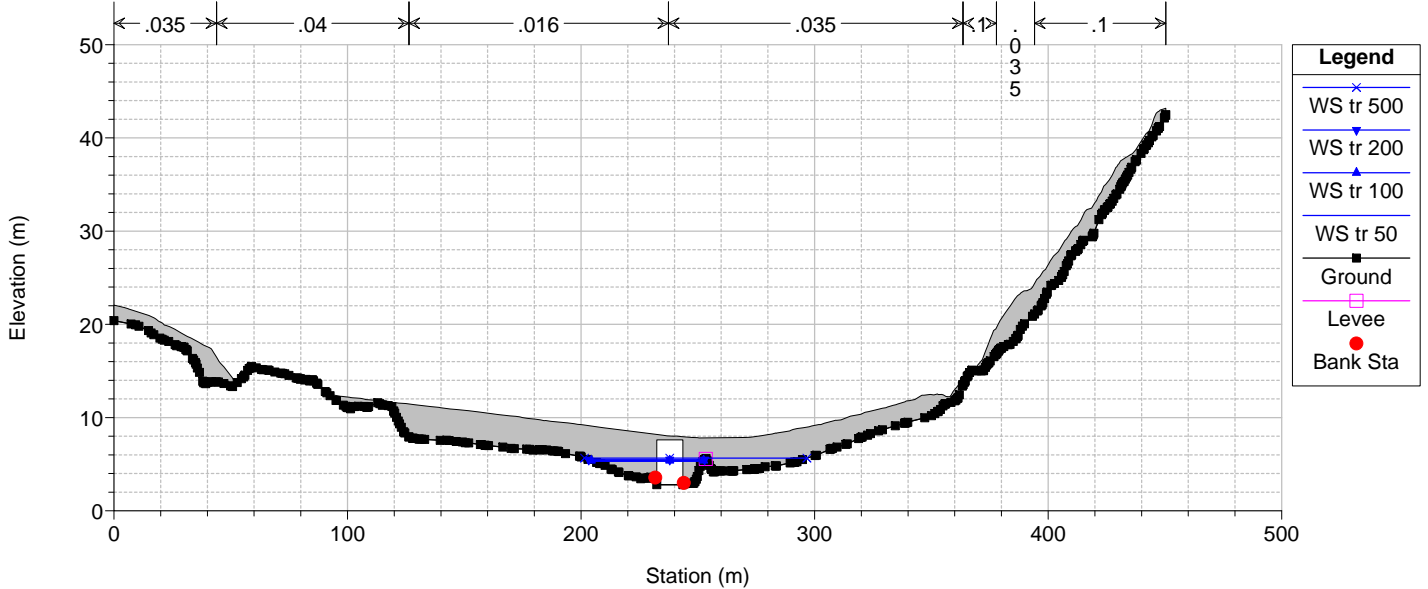
River = Rio Scamungia Reach = Asta 2 RS = 170.3536 Culv COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

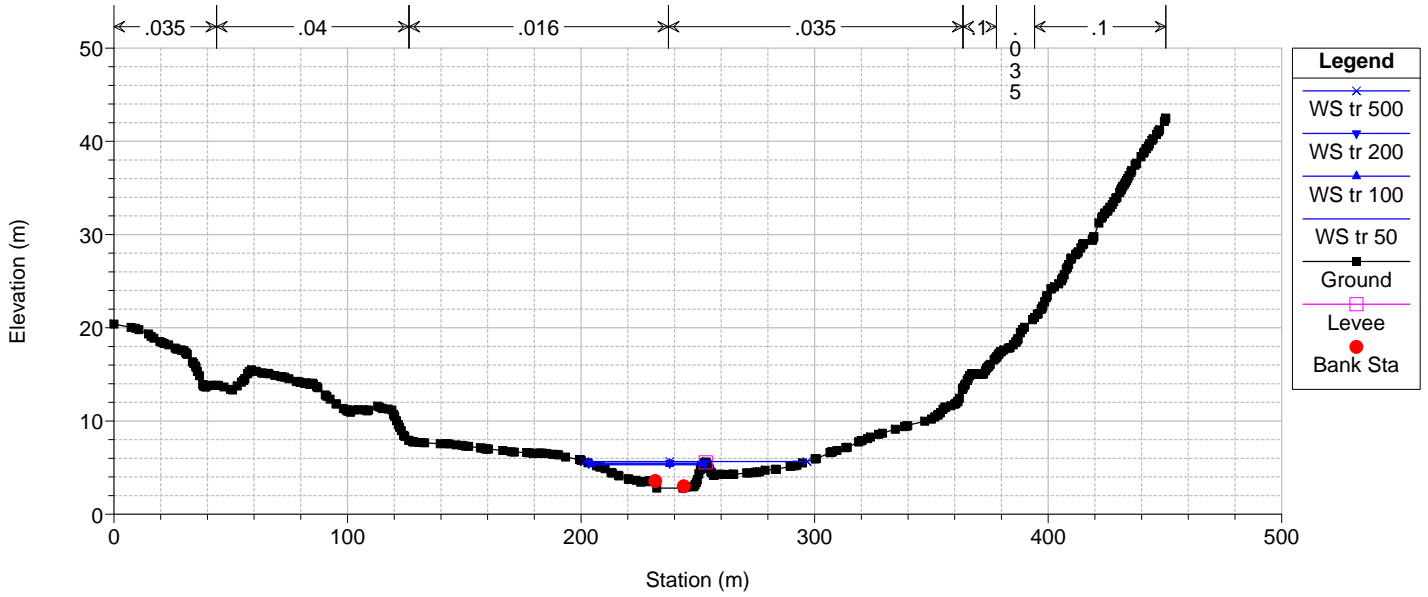
River = Rio Scamungia Reach = Asta 2 RS = 170.3536 Culv COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

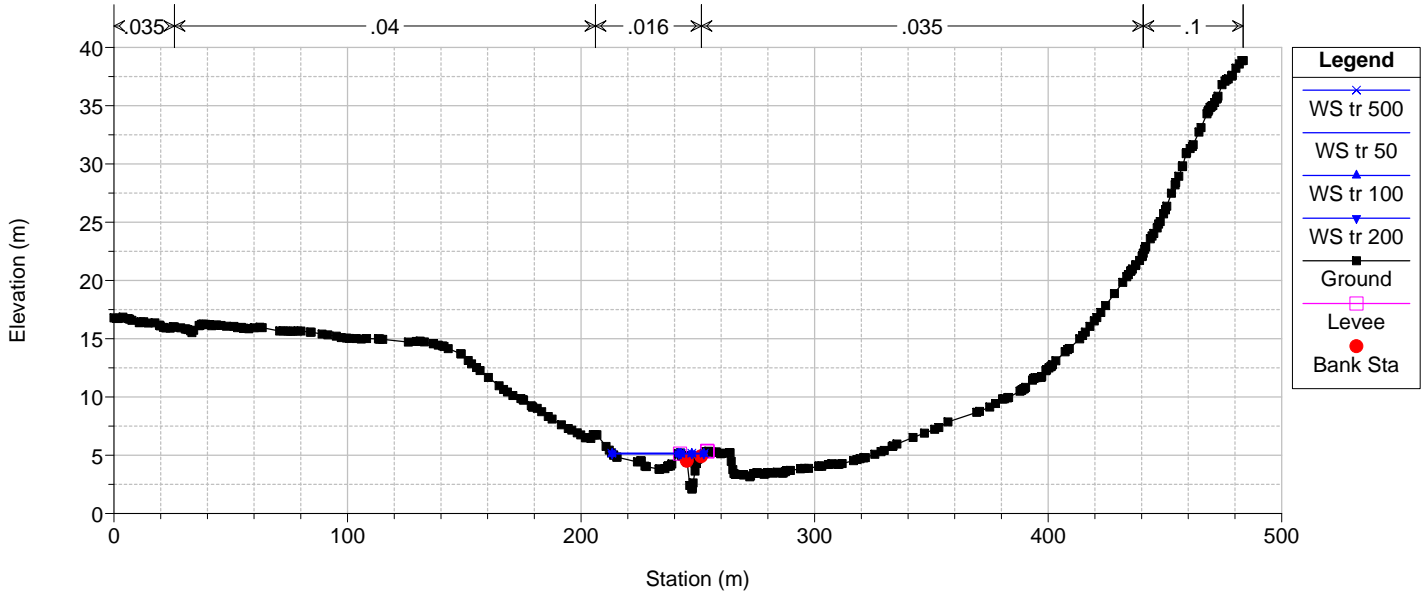
River = Rio Scamungia Reach = Asta 2 RS = 147.2035 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

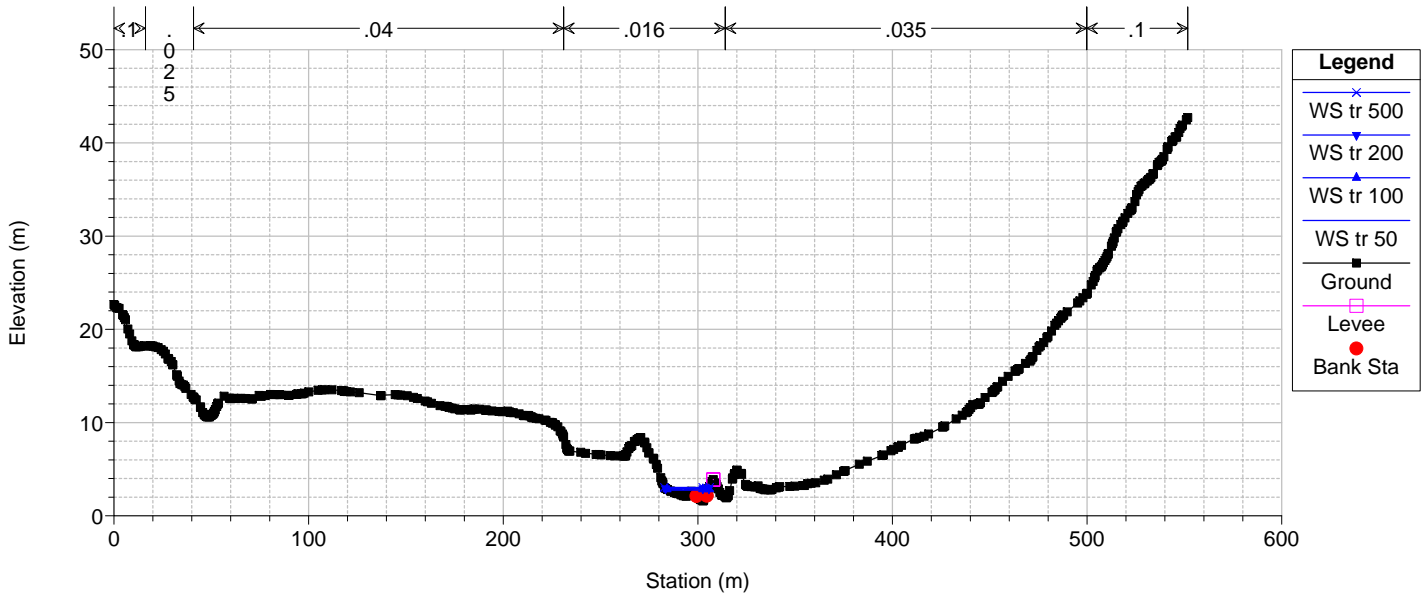
River = Rio Scamungia Reach = Asta 2 RS = 97.06301 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

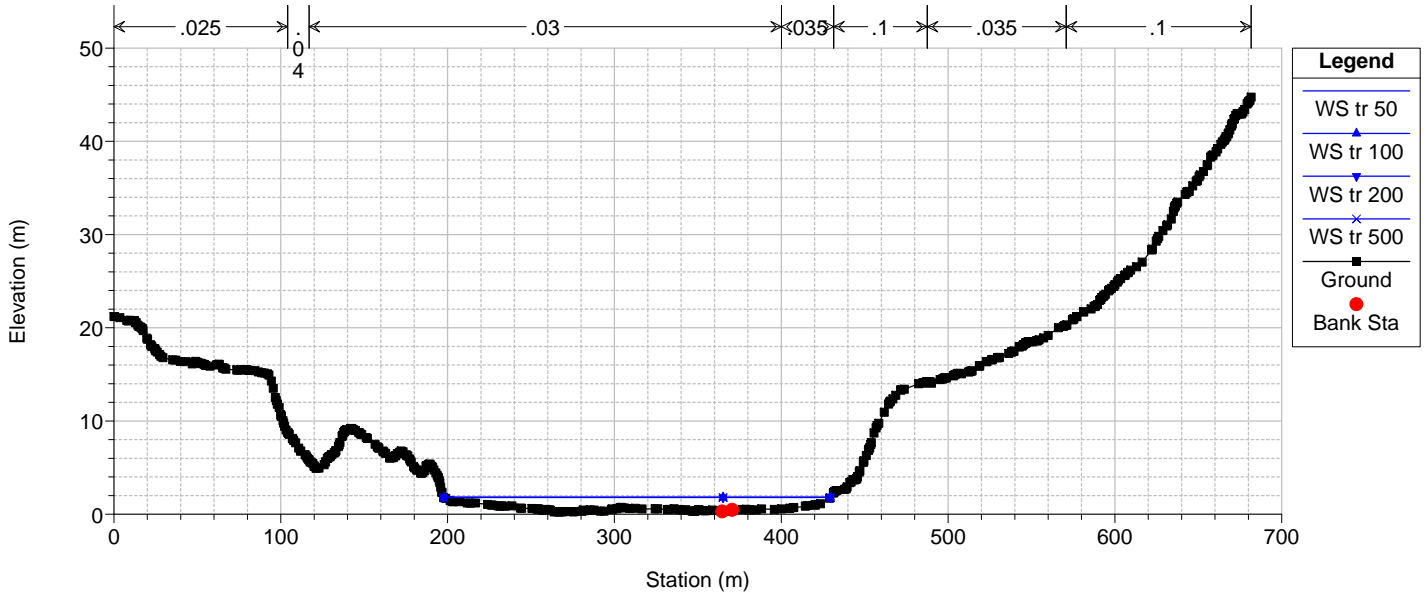
River = Rio Scamungia Reach = Asta 2 RS = 52.14715 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



scamunigada01082017 Plan: Plan 01 10/27/2017

Geom: scamunigada01082017 Flow: scamunigada01082017

River = Rio Scamungia Reach = Asta 2 RS = 7.07313 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	2900	tr 50	13.46	254.38	255.71	255.71	256.05	0.095657	2.71	5.50	8.23	0.92
Asta 1	2900	tr 100	15.82	254.38	255.79	255.79	256.16	0.093829	2.85	6.19	8.55	0.92
Asta 1	2900	tr 200	18.24	254.38	255.87	255.87	256.27	0.091262	2.97	6.90	8.78	0.92
Asta 1	2900	tr 500	21.63	254.38	255.97	255.97	256.41	0.088516	3.12	7.83	9.04	0.92
Asta 1	2850	tr 50	13.46	239.44	240.17	240.79	243.38	1.653246	8.25	1.79	4.35	3.59
Asta 1	2850	tr 100	15.82	239.44	240.22	240.89	243.72	1.612228	8.67	2.02	4.57	3.60
Asta 1	2850	tr 200	18.24	239.44	240.27	241.00	244.09	1.604213	9.10	2.24	4.75	3.64
Asta 1	2850	tr 500	21.63	239.44	240.33	241.13	244.52	1.576988	9.60	2.55	4.98	3.66
Asta 1	2800	tr 50	13.46	227.13	228.48	228.48	228.87	0.107767	2.78	5.02	6.92	0.96
Asta 1	2800	tr 100	15.82	227.13	228.56	228.59	228.99	0.109914	2.95	5.61	7.32	0.98
Asta 1	2800	tr 200	18.24	227.13	228.64	228.68	229.11	0.111711	3.09	6.21	7.69	1.00
Asta 1	2800	tr 500	21.63	227.13	228.74	228.80	229.26	0.114151	3.28	7.00	8.17	1.02
Asta 1	2750	tr 50	13.46	206.06	207.32	207.32	207.75	0.125810	2.92	4.61	5.38	1.01
Asta 1	2750	tr 100	15.82	206.06	207.42	207.42	207.89	0.123404	3.05	5.20	5.67	1.01
Asta 1	2750	tr 200	18.24	206.06	207.53	207.53	208.03	0.116824	3.13	5.84	5.99	0.99
Asta 1	2750	tr 500	21.63	206.06	206.76	207.67	212.58	3.179623	10.69	2.02	3.94	4.76
Asta 1	2708.437	tr 50	13.46	195.63	196.39	196.77	197.75	0.617723	5.40	2.74	6.20	2.25
Asta 1	2708.437	tr 100	15.82	195.63	196.44	196.86	197.97	0.627744	5.75	3.06	6.58	2.30
Asta 1	2708.437	tr 200	18.24	195.63	196.48	196.94	198.24	0.677735	6.20	3.30	6.85	2.41
Asta 1	2708.437	tr 500	21.63	195.63	196.94	197.05	197.50	0.115483	3.64	7.14	9.24	1.09
Asta 1	2642.76	tr 50	13.46	164.49	165.69	166.05	166.82	0.367352	4.74	2.91	3.73	1.61
Asta 1	2642.76	tr 100	15.82	164.49	165.79	166.18	167.02	0.362529	4.97	3.28	3.93	1.61
Asta 1	2642.76	tr 200	18.24	164.49	165.89	166.31	167.18	0.343473	5.10	3.72	4.14	1.58
Asta 1	2642.76	tr 500	21.63	164.49	166.46	166.46	167.09	0.115425	3.63	6.38	5.18	0.94
Asta 1	2600	tr 50	13.46	149.26	150.42	150.74	151.44	0.351544	4.52	3.06	4.52	1.66
Asta 1	2600	tr 100	15.82	149.26	150.49	150.86	151.64	0.357004	4.79	3.41	4.69	1.68
Asta 1	2600	tr 200	18.24	149.26	150.55	150.97	151.85	0.376483	5.10	3.71	4.82	1.74
Asta 1	2600	tr 500	21.63	149.26	150.28	151.11	154.35	1.713854	8.98	2.45	4.21	3.58
Asta 1	2550	tr 50	13.46	140.80	141.97	141.97	142.33	0.107647	2.71	5.27	7.64	0.99
Asta 1	2550	tr 100	15.82	140.80	142.04	142.06	142.45	0.107825	2.89	5.85	7.78	1.00
Asta 1	2550	tr 200	18.24	140.80	142.12	142.13	142.56	0.105971	3.03	6.45	7.89	1.01
Asta 1	2550	tr 500	21.63	140.80	142.24	142.24	142.72	0.096998	3.15	7.41	8.02	0.98
Asta 1	2500	tr 50	13.46	131.96	133.05	133.29	133.86	0.299826	3.98	3.39	5.17	1.55
Asta 1	2500	tr 100	15.82	131.96	133.12	133.40	134.03	0.293709	4.21	3.77	5.35	1.56
Asta 1	2500	tr 200	18.24	131.96	133.19	133.50	134.20	0.295920	4.47	4.12	5.50	1.59
Asta 1	2500	tr 500	21.63	131.96	133.25	133.63	134.48	0.328847	4.94	4.44	5.64	1.69
Asta 1	2450	tr 50	13.46	125.30	126.94	126.94	127.42	0.135559	3.06	4.40	4.77	1.00
Asta 1	2450	tr 100	15.82	125.30	127.06	127.06	127.58	0.126882	3.20	4.97	5.04	0.99
Asta 1	2450	tr 200	18.24	125.30	127.16	127.16	127.73	0.121384	3.34	5.54	5.30	0.98
Asta 1	2450	tr 500	21.63	125.30	127.32	127.32	127.93	0.111438	3.48	6.39	5.66	0.96
Asta 1	2400	tr 50	13.46	118.79	119.71	119.78	120.14	0.157789	2.92	4.66	7.86	1.15
Asta 1	2400	tr 100	15.82	118.79	119.76	119.87	120.27	0.171218	3.19	5.04	8.06	1.21
Asta 1	2400	tr 200	18.24	118.79	119.81	119.95	120.40	0.180389	3.42	5.44	8.21	1.25
Asta 1	2400	tr 500	21.63	118.79	119.86	120.05	120.58	0.201865	3.78	5.87	8.36	1.34
Asta 1	2357.536	tr 50	13.46	111.94	113.22	113.30	113.78	0.142046	3.34	4.14	4.99	1.09
Asta 1	2357.536	tr 100	15.82	111.94	113.34	113.42	113.93	0.131007	3.46	4.75	5.31	1.06
Asta 1	2357.536	tr 200	18.24	111.94	113.44	113.53	114.08	0.124587	3.59	5.33	5.60	1.05
Asta 1	2357.536	tr 500	21.63	111.94	113.60	113.68	114.27	0.113397	3.72	6.21	5.96	1.03
Asta 1	2295.796	tr 50	13.46	103.45	104.33	104.38	104.73	0.149634	2.80	4.82	7.83	1.12
Asta 1	2295.796	tr 100	15.82	103.45	104.37	104.46	104.86	0.164658	3.08	5.17	7.95	1.19
Asta 1	2295.796	tr 200	18.24	103.45	104.42	104.54	104.98	0.175945	3.32	5.54	8.07	1.24
Asta 1	2295.796	tr 500	21.63	103.45	104.47	104.64	105.16	0.199430	3.69	5.93	8.18	1.33
Asta 1	2250	tr 50	13.46	97.10	98.35	98.35	98.78	0.113889	2.91	4.69	5.88	0.99
Asta 1	2250	tr 100	15.82	97.10	98.45	98.46	98.92	0.107777	3.04	5.30	6.16	0.98
Asta 1	2250	tr 200	18.24	97.10	98.55	98.55	99.05	0.101282	3.16	5.96	6.43	0.97
Asta 1	2250	tr 500	21.63	97.10	98.69	98.69	99.23	0.095410	3.31	6.83	6.79	0.96
Asta 1	2204.436	tr 50	13.46	93.03	95.68	94.52	95.76	0.007563	1.25	11.61	7.34	0.28
Asta 1	2204.436	tr 100	15.82	93.03	95.85	94.63	95.94	0.007870	1.34	12.86	7.69	0.29
Asta 1	2204.436	tr 200	18.24	93.03	96.00	94.74	96.10	0.008178	1.43	14.06	8.02	0.30
Asta 1	2204.436	tr 500	21.63	93.03	96.20	94.87	96.31	0.008541	1.54	15.69	8.43	0.31
Asta 1	2195.326	tr 50	13.46	92.88	94.33	94.33	94.77	0.085852	3.10	4.89	5.74	0.91
Asta 1	2195.326	tr 100	15.82	92.88	94.44	94.44	94.92	0.084190	3.26	5.54	6.01	0.91
Asta 1	2195.326	tr 200	18.24	92.88	94.55	94.55	95.06	0.081315	3.38	6.22	6.27	0.91
Asta 1	2195.326	tr 500	21.63	92.88	94.69	94.69	95.25	0.078813	3.55	7.13	6.60	0.91
Asta 1	2151.663	tr 50	13.46	87.59	89.52	89.33	89.79	0.057529	2.50	6.17	6.86	0.71
Asta 1	2151.663	tr 100	15.82	87.59	89.62	89.44	89.92	0.057838	2.65	6.92	7.18	0.72
Asta 1	2151.663	tr 200	18.24	87.59	89.72	89.53	90.05	0.058939	2.79	7.63	7.46	0.73

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	2151.663	tr 500	21.63	87.59	89.45	89.67	90.26	0.182996	4.30	5.72	6.67	1.25
Asta 1	2126.361	tr 50	13.46	85.53	87.25	87.25	87.78	0.109032	3.27	4.35	4.51	0.95
Asta 1	2126.361	tr 100	15.82	85.53	87.39	87.39	87.96	0.102853	3.41	4.98	4.80	0.94
Asta 1	2126.361	tr 200	18.24	85.53	87.52	87.52	88.12	0.096021	3.52	5.66	5.11	0.92
Asta 1	2126.361	tr 500	21.63	85.53	87.69	87.69	88.33	0.091101	3.68	6.54	5.48	0.91
Asta 1	2100.489	tr 50	13.46	83.84	85.18	84.62	85.23	0.009266	1.02	14.11	14.63	0.31
Asta 1	2100.489	tr 100	15.82	83.84	85.27	84.68	85.33	0.009566	1.09	15.49	14.81	0.32
Asta 1	2100.489	tr 200	18.24	83.84	85.37	84.74	85.43	0.009614	1.15	16.95	15.00	0.32
Asta 1	2100.489	tr 500	21.63	83.84	85.50	84.80	85.57	0.009649	1.23	18.90	15.26	0.33
Asta 1	2092.196	tr 50	13.46	82.86	84.16	84.16	84.50	0.077339	2.85	5.88	9.20	0.87
Asta 1	2092.196	tr 100	15.82	82.86	84.27	84.27	84.60	0.070471	2.89	6.88	9.72	0.84
Asta 1	2092.196	tr 200	18.24	82.86	84.34	84.34	84.71	0.071152	3.02	7.61	9.99	0.86
Asta 1	2092.196	tr 500	21.63	82.86	84.44	84.44	84.83	0.071657	3.18	8.59	10.33	0.87
Asta 1	2066.17	tr 50	13.46	80.15	82.44	81.70	82.55	0.013175	1.60	9.93	8.37	0.38
Asta 1	2066.17	tr 100	15.82	80.15	82.59	81.82	82.71	0.013268	1.69	11.23	9.05	0.39
Asta 1	2066.17	tr 200	18.24	80.15	82.72	81.92	82.86	0.013517	1.78	12.47	9.66	0.39
Asta 1	2066.17	tr 500	21.63	80.15	82.89	82.07	83.04	0.013922	1.90	14.17	10.74	0.40
Asta 1	2060.627	tr 50	13.46	79.48	81.08		81.25	0.032687	2.11	8.11	9.77	0.58
Asta 1	2060.627	tr 100	15.82	79.48	81.15		81.35	0.035970	2.29	8.83	10.18	0.61
Asta 1	2060.627	tr 200	18.24	79.48	81.23		81.45	0.037744	2.43	9.67	10.67	0.64
Asta 1	2060.627	tr 500	21.63	79.48	81.34		81.58	0.039457	2.60	10.83	11.33	0.66
Asta 1	2052.51	tr 50	13.46	79.35	80.73		80.93	0.048704	2.46	7.67	11.74	0.70
Asta 1	2052.51	tr 100	15.82	79.35	80.84		81.04	0.043744	2.47	8.94	12.22	0.68
Asta 1	2052.51	tr 200	18.24	79.35	80.94		81.14	0.040185	2.48	10.20	12.69	0.66
Asta 1	2052.51	tr 500	21.63	79.35	81.06		81.27	0.038346	2.55	11.75	13.39	0.65
Asta 1	2045.841	tr 50	13.46	78.92	80.48		80.66	0.031273	2.10	8.07	10.06	0.57
Asta 1	2045.841	tr 100	15.82	78.92	80.59		80.78	0.030853	2.19	9.21	10.85	0.58
Asta 1	2045.841	tr 200	18.24	78.92	80.70		80.90	0.029656	2.26	10.46	11.57	0.57
Asta 1	2045.841	tr 500	21.63	78.92	80.79		81.02	0.032588	2.45	11.48	12.02	0.61
Asta 1	2029.366	tr 50	13.46	78.10	79.49	79.49	79.87	0.081285	2.91	5.39	7.48	0.89
Asta 1	2029.366	tr 100	15.82	78.10	79.58	79.58	79.99	0.081544	3.07	6.08	7.95	0.90
Asta 1	2029.366	tr 200	18.24	78.10	79.65	79.65	80.12	0.084750	3.26	6.71	8.52	0.93
Asta 1	2029.366	tr 500	21.63	78.10	79.84	79.84	80.27	0.067521	3.20	8.61	12.41	0.85
Asta 1	2001.156	tr 50	13.46	74.53	75.65	75.79	76.18	0.239165	3.24	4.16	7.53	1.37
Asta 1	2001.156	tr 100	15.82	74.53	75.71	75.88	76.31	0.236665	3.44	4.62	7.90	1.39
Asta 1	2001.156	tr 200	18.24	74.53	75.77	75.96	76.42	0.223613	3.58	5.16	8.32	1.37
Asta 1	2001.156	tr 500	21.63	74.53	75.78	76.06	76.68	0.306885	4.21	5.20	8.36	1.61
Asta 1	1954.079	tr 50	13.46	69.49	72.07	70.98	72.15	0.008199	1.31	12.22	12.56	0.29
Asta 1	1954.079	tr 100	15.82	69.49	72.21	71.10	72.29	0.008488	1.38	14.02	15.29	0.30
Asta 1	1954.079	tr 200	18.24	69.49	72.32	71.22	72.42	0.008739	1.45	15.95	17.49	0.31
Asta 1	1954.079	tr 500	21.63	69.49	72.50	71.36	72.59	0.008655	1.52	19.45	21.68	0.31
Asta 1	1938.897	tr 50	13.46	69.28	70.61	70.61	70.98	0.091814	2.75	5.28	7.73	0.92
Asta 1	1938.897	tr 100	15.82	69.28	70.71	70.71	71.10	0.086349	2.86	6.07	8.29	0.90
Asta 1	1938.897	tr 200	18.24	69.28	70.80	70.80	71.21	0.081883	2.95	6.88	8.83	0.89
Asta 1	1938.897	tr 500	21.63	69.28	70.87	70.87	71.36	0.091566	3.25	7.50	9.21	0.95
Asta 1	1926.989	tr 50	13.46	67.63	68.73	68.89	69.33	0.225176	3.43	3.97	6.79	1.36
Asta 1	1926.989	tr 100	15.82	67.63	68.78	68.98	69.48	0.234135	3.70	4.35	7.09	1.41
Asta 1	1926.989	tr 200	18.24	67.63	68.84	69.08	69.62	0.240772	3.94	4.75	7.37	1.45
Asta 1	1926.989	tr 500	21.63	67.63	68.95	69.19	69.76	0.207843	4.02	5.62	7.97	1.37
Asta 1	1894.868	tr 50	13.46	64.39	66.03	65.85	66.27	0.054360	2.19	6.41	8.07	0.70
Asta 1	1894.868	tr 100	15.82	64.39	66.14	65.94	66.40	0.051134	2.28	7.34	8.63	0.69
Asta 1	1894.868	tr 200	18.24	64.39	66.25	66.03	66.52	0.047790	2.35	8.33	9.17	0.68
Asta 1	1894.868	tr 500	21.63	64.39	66.32	66.16	66.65	0.055350	2.62	8.94	9.50	0.74
Asta 1	1868.65	tr 50	13.46	62.90	64.35	64.25	64.70	0.066318	2.75	5.53	6.31	0.79
Asta 1	1868.65	tr 100	15.82	62.90	64.46	64.36	64.85	0.068872	2.95	6.20	7.11	0.82
Asta 1	1868.65	tr 200	18.24	62.90	64.55	64.42	65.00	0.072059	3.16	6.91	8.41	0.84
Asta 1	1868.65	tr 500	21.63	62.90	64.73	64.73	65.15	0.059831	3.12	8.71	10.37	0.79
Asta 1	1850	tr 50	13.46	61.65	62.89	62.89	63.22	0.102416	2.64	5.44	8.16	0.95
Asta 1	1850	tr 100	15.82	61.65	62.97	62.97	63.33	0.103512	2.77	6.11	8.61	0.96
Asta 1	1850	tr 200	18.24	61.65	63.05	63.05	63.44	0.102582	2.91	6.77	9.08	0.97
Asta 1	1850	tr 500	21.63	61.65	63.06	63.16	63.60	0.134468	3.37	6.94	9.19	1.12
Asta 1	1821.607	tr 50	13.46	59.16	60.63	60.29	60.81	0.033906	1.91	7.61	11.03	0.57
Asta 1	1821.607	tr 100	15.82	59.16	60.73	60.40	60.92	0.032902	1.99	8.81	11.65	0.57
Asta 1	1821.607	tr 200	18.24	59.16	60.83	60.50	61.03	0.032255	2.07	9.96	12.22	0.57
Asta 1	1821.607	tr 500	21.63	59.16	61.02	60.67	61.21	0.025870	2.03	12.42	13.30	0.52
Asta 1	1797.1	tr 50	13.46	57.81	59.45	59.29	59.72	0.058724	2.34	6.11	7.49	0.72

HEC-RAS Plan: 01 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	1797.1	tr 100	15.82	57.81	59.55	59.39	59.85	0.059499	2.50	6.86	8.22	0.73
Asta 1	1797.1	tr 200	18.24	57.81	59.64	59.49	59.97	0.059006	2.62	7.69	9.06	0.74
Asta 1	1797.1	tr 500	21.63	57.81	59.62	59.62	60.11	0.089396	3.18	7.46	8.78	0.91
Asta 1	1777.653	tr 50	13.46	57.03	57.99	57.99	58.21	0.108162	2.36	6.68	14.52	0.94
Asta 1	1777.653	tr 100	15.82	57.03	58.03	58.03	58.29	0.115351	2.54	7.29	14.86	0.98
Asta 1	1777.653	tr 200	18.24	57.03	58.07	58.07	58.37	0.125685	2.75	7.87	15.60	1.03
Asta 1	1777.653	tr 500	21.63	57.03	58.11	58.11	58.15	0.022308	1.20	24.32	54.36	0.44
Asta 1	1750	tr 50	13.46	55.96	56.51	56.51	56.53	0.011212	0.61	21.84	48.99	0.29
Asta 1	1750	tr 100	15.82	55.96	56.51	56.51	56.54	0.015487	0.72	21.84	48.99	0.35
Asta 1	1750	tr 200	18.24	55.96	56.51	56.51	56.55	0.020598	0.83	21.84	48.99	0.40
Asta 1	1750	tr 500	21.63	55.96	56.51	56.51	56.56	0.028965	0.98	21.84	48.99	0.47
Asta 1	1720.582	tr 50	13.46	52.47	53.42	53.90	55.30	0.980775	6.13	2.27	4.91	2.70
Asta 1	1720.582	tr 100	15.82	52.47	53.56	53.99	55.06	0.646609	5.52	2.99	5.65	2.25
Asta 1	1720.582	tr 200	18.24	52.47	53.72	54.08	54.86	0.411698	4.85	3.97	6.56	1.84
Asta 1	1720.582	tr 500	21.63	52.47	53.97	54.19	54.73	0.203478	4.01	5.80	7.92	1.35
Asta 1	1700	tr 50	13.46	51.38	52.60	52.60	52.93	0.094180	2.60	5.63	10.91	0.92
Asta 1	1700	tr 100	15.82	51.38	52.74	52.74	53.03	0.068769	2.47	7.55	14.93	0.81
Asta 1	1700	tr 200	18.24	51.38	52.81	52.81	53.11	0.067765	2.57	8.59	16.02	0.81
Asta 1	1700	tr 500	21.63	51.38	53.01	52.92	53.22	0.041184	2.26	12.64	25.69	0.65
Asta 1	1669.545	tr 50	13.46	49.73	51.27	50.84	51.36	0.017490	1.45	10.78	13.39	0.42
Asta 1	1669.545	tr 100	15.82	49.73	51.37	50.92	51.47	0.017157	1.52	12.24	14.24	0.43
Asta 1	1669.545	tr 200	18.24	49.73	51.47	51.00	51.58	0.017139	1.59	13.64	15.22	0.43
Asta 1	1669.545	tr 500	21.63	49.73	51.09	51.09	51.46	0.084782	2.86	8.55	11.99	0.91
Asta 1	1650	tr 50	13.46	49.06	50.35	50.35	50.70	0.080019	2.85	5.61	8.16	0.89
Asta 1	1650	tr 100	15.82	49.06	50.43	50.43	50.82	0.080424	3.01	6.32	8.63	0.90
Asta 1	1650	tr 200	18.24	49.06	50.53	50.53	50.93	0.077349	3.11	7.16	9.29	0.89
Asta 1	1650	tr 500	21.63	49.06	50.61	50.61	50.62	0.000393	0.23	54.90	63.50	0.06
Asta 1	1589.547	tr 50	13.46	45.31	46.60	46.33	46.73	0.035267	1.72	9.40	17.91	0.58
Asta 1	1589.547	tr 100	15.82	45.31	46.66	46.50	46.80	0.036601	1.83	10.52	19.29	0.60
Asta 1	1589.547	tr 200	18.24	45.31	46.72	46.56	46.87	0.037657	1.93	11.64	20.36	0.61
Asta 1	1589.547	tr 500	21.63	45.31	46.02	46.64	50.12	2.674522	9.24	2.51	7.15	4.46
Asta 1	1550	tr 50	13.46	43.61	44.69	44.69	44.88	0.063640	2.16	8.11	21.89	0.77
Asta 1	1550	tr 100	15.82	43.61	44.75	44.75	44.95	0.061307	2.23	9.56	24.60	0.76
Asta 1	1550	tr 200	18.24	43.61	44.80	44.80	45.00	0.060116	2.29	10.96	28.88	0.76
Asta 1	1550	tr 500	21.63	43.61	44.83	44.83	45.08	0.072745	2.57	11.78	32.28	0.84
Asta 1	1506.602	tr 50	13.46	40.99	42.14	42.14	42.14	0.000307	0.15	55.95	97.95	0.05
Asta 1	1506.602	tr 100	15.82	40.99	42.14	42.14	42.14	0.000424	0.17	55.95	97.95	0.06
Asta 1	1506.602	tr 200	18.24	40.99	42.14	42.14	42.15	0.000564	0.20	55.95	97.95	0.07
Asta 1	1506.602	tr 500	21.63	40.99	42.14	42.14	42.15	0.000792	0.23	55.95	97.95	0.08
Asta 1	1468.003	tr 50	13.46	39.68	40.60	40.98	41.96	0.578453	5.45	2.75	5.49	2.12
Asta 1	1468.003	tr 100	15.82	39.68	40.72	41.00	41.96	0.517226	5.33	3.67	13.65	2.03
Asta 1	1468.003	tr 200	18.24	39.68	41.15	41.02	41.17	0.002784	0.43	37.38	96.37	0.16
Asta 1	1468.003	tr 500	21.63	39.68	40.83	41.06	41.93	0.565180	5.29	5.42	18.12	2.11
Asta 1	1446.65	tr 50	13.46	39.18	39.91	39.91	40.08	0.077729	2.08	7.86	20.97	0.83
Asta 1	1446.65	tr 100	15.82	39.18	39.96	39.96	40.14	0.075682	2.16	8.92	21.83	0.83
Asta 1	1446.65	tr 200	18.24	39.18	39.98	39.98	40.20	0.085359	2.35	9.46	22.34	0.88
Asta 1	1446.65	tr 500	21.63	39.18	40.08	40.08	40.26	0.060498	2.16	12.42	32.21	0.76
Asta 1	1403.097	tr 50	13.46	37.46	37.71	37.71	37.74	0.003973	0.19	18.73	68.17	0.15
Asta 1	1403.097	tr 100	15.82	37.46	37.71	37.71	37.75	0.005488	0.23	18.73	68.17	0.18
Asta 1	1403.097	tr 200	18.24	37.46	37.71	37.71	37.76	0.007299	0.26	18.73	68.17	0.20
Asta 1	1403.097	tr 500	21.63	37.46	37.71	37.71	37.78	0.010264	0.31	18.73	68.17	0.24
Asta 1	1354.159	tr 50	13.46	35.95	36.10	36.10	36.10	0.000220	0.10	47.77	92.19	0.09
Asta 1	1354.159	tr 100	15.82	35.95	36.10	36.10	36.11	0.000304	0.12	47.77	92.19	0.11
Asta 1	1354.159	tr 200	18.24	35.95	36.10	36.10	36.11	0.000404	0.13	47.77	92.19	0.13
Asta 1	1354.159	tr 500	21.63	35.95	36.10	36.10	36.11	0.000568	0.16	47.77	92.19	0.15
Asta 1	1302.055	tr 50	13.46	33.70	34.23	34.23	34.42	0.014011	2.00	7.30	22.62	0.95
Asta 1	1302.055	tr 100	15.82	33.70	34.29	34.29	34.48	0.011919	2.01	8.94	32.53	0.89
Asta 1	1302.055	tr 200	18.24	33.70	34.29	34.29	34.54	0.015852	2.31	8.94	32.53	1.03
Asta 1	1302.055	tr 500	21.63	33.70	34.38	34.38	34.38	0.000016	0.08	150.09	127.06	0.03
Asta 1	1260.668	tr 50	13.46	32.44	32.82	32.95	33.19	0.045090	2.78	5.34	25.91	1.59
Asta 1	1260.668	tr 100	15.82	32.44	32.84	32.95	33.30	0.053999	3.11	5.65	26.97	1.75
Asta 1	1260.668	tr 200	18.24	32.44	32.89	32.95	33.28	0.039458	2.94	7.13	29.48	1.54
Asta 1	1260.668	tr 500	21.63	32.44	32.78	32.98	34.23	0.215001	5.43	4.22	21.76	3.38
Asta 1	1250	tr 50	13.46	31.10	31.77	31.97	32.48	0.095187	3.91	3.67	13.94	2.28
Asta 1	1250	tr 100	15.82	31.10	31.81	32.01	32.52	0.094090	3.92	4.29	16.90	2.27
Asta 1	1250	tr 200	18.24	31.10	31.83	32.10	32.62	0.094126	4.13	4.72	17.73	2.30
Asta 1	1250	tr 500	21.63	31.10	32.14	32.14	32.33	0.011090	2.21	12.82	42.26	0.88

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	1196.73	tr 50	13.46	29.20	29.96	30.03	30.19	0.022169	2.54	7.41	29.15	1.11
Asta 1	1196.73	tr 100	15.82	29.20	29.99	30.06	30.24	0.022278	2.65	8.39	30.61	1.12
Asta 1	1196.73	tr 200	18.24	29.20	30.02	30.10	30.28	0.022836	2.77	9.28	31.88	1.14
Asta 1	1196.73	tr 500	21.63	29.20	30.15	30.15	30.31	0.011786	2.26	13.74	43.78	0.85
Asta 1	1145.341	tr 50	13.46	27.65	28.26	28.26	28.38	0.015960	1.65	9.26	37.95	0.86
Asta 1	1145.341	tr 100	15.82	27.65	28.29	28.29	28.43	0.015438	1.72	10.62	40.76	0.85
Asta 1	1145.341	tr 200	18.24	27.65	28.32	28.32	28.47	0.014822	1.78	12.03	42.98	0.85
Asta 1	1145.341	tr 500	21.63	27.65	28.36	28.36	28.52	0.014707	1.87	13.70	44.73	0.86
Asta 1	1100	tr 50	13.46	26.31	27.00	27.00	27.19	0.023499	2.12	7.04	19.78	1.02
Asta 1	1100	tr 100	15.82	26.31	27.07	27.07	27.25	0.021104	2.16	8.59	23.74	0.98
Asta 1	1100	tr 200	18.24	26.31	27.11	27.11	27.30	0.020676	2.22	9.53	24.42	0.98
Asta 1	1100	tr 500	21.63	26.31	27.16	27.16	27.37	0.020402	2.30	10.75	25.27	0.98
Asta 1	1050	tr 50	13.46	25.00	25.60	25.60	25.82	0.014782	2.13	6.71	15.62	0.97
Asta 1	1050	tr 100	15.82	25.00	25.65	25.65	25.90	0.014708	2.24	7.54	16.30	0.98
Asta 1	1050	tr 200	18.24	25.00	25.71	25.71	25.97	0.014169	2.32	8.47	17.20	0.97
Asta 1	1050	tr 500	21.63	25.00	25.78	25.78	26.06	0.013566	2.44	9.66	18.27	0.97
Asta 1	1000	tr 50	22.51	22.70	23.18	23.47	24.08	0.065455	2.37	5.48	10.92	1.52
Asta 1	1000	tr 100	26.72	22.70	23.26	23.56	24.20	0.061582	2.62	6.36	11.69	1.53
Asta 1	1000	tr 200	31.04	22.70	23.33	23.65	24.32	0.059610	2.86	7.20	12.39	1.54
Asta 1	1000	tr 500	36.99	22.70	23.41	23.78	24.47	0.057314	3.15	8.32	13.22	1.55
Asta 1	950	tr 50	22.51	21.48	22.30	22.31	22.41	0.018662	2.12	15.65	73.76	0.94
Asta 1	950	tr 100	26.72	21.48	22.33	22.34	22.45	0.017676	2.15	18.53	78.30	0.93
Asta 1	950	tr 200	31.04	21.48	22.35	22.37	22.49	0.019402	2.30	20.10	79.68	0.98
Asta 1	950	tr 500	36.99	21.48	22.37	22.40	22.54	0.021704	2.50	21.84	80.74	1.04
Asta 1	899.9999	tr 50	22.51	19.72	20.78	20.91	21.19	0.032181	3.67	9.45	53.03	1.33
Asta 1	899.9999	tr 100	26.72	19.72	20.81	20.94	21.24	0.033930	3.88	11.43	61.37	1.38
Asta 1	899.9999	tr 200	31.04	19.72	20.85	20.97	21.25	0.031863	3.88	14.01	67.26	1.34
Asta 1	899.9999	tr 500	36.99	19.72	20.89	21.02	21.27	0.029696	3.87	16.94	70.19	1.31
Asta 1	851.7595	tr 50	22.51	17.78	19.04	19.34	19.73	0.027653	4.02	6.78	13.15	1.29
Asta 1	851.7595	tr 100	26.72	17.78	19.13	19.39	19.81	0.025347	4.08	8.38	22.90	1.26
Asta 1	851.7595	tr 200	31.04	17.78	19.20	19.43	19.88	0.024723	4.20	10.36	37.29	1.25
Asta 1	851.7595	tr 500	36.99	17.78	19.27	19.48	19.95	0.024347	4.34	13.56	49.73	1.26
Asta 1	802.1884	tr 50	22.51	17.44	18.21	18.24	18.40	0.020863	2.58	12.13	35.81	1.05
Asta 1	802.1884	tr 100	26.72	17.44	18.22	18.27	18.45	0.024313	2.83	13.52	46.11	1.14
Asta 1	802.1884	tr 200	31.04	17.44	18.25	18.31	18.50	0.025747	2.99	14.72	46.54	1.18
Asta 1	802.1884	tr 500	36.99	17.44	18.28	18.35	18.57	0.026647	3.15	16.41	47.15	1.21
Asta 1	751.9952	tr 50	22.51	15.24	16.84	17.09	17.44	0.016031	3.49	7.17	14.07	1.11
Asta 1	751.9952	tr 100	26.72	15.24	16.98	17.19	17.53	0.013170	3.45	9.66	24.91	1.02
Asta 1	751.9952	tr 200	31.04	15.24	17.06	17.27	17.60	0.012486	3.50	11.83	31.35	1.01
Asta 1	751.9952	tr 500	36.99	15.24	17.15	17.35	17.68	0.011943	3.60	15.10	37.67	1.00
Asta 1	700.7482	tr 50	22.51	14.77	15.62	15.78	16.25	0.036253	3.89	6.96	15.26	1.51
Asta 1	700.7482	tr 100	26.72	14.77	15.66	15.83	16.42	0.041034	4.28	7.55	15.83	1.62
Asta 1	700.7482	tr 200	31.04	14.77	15.88	15.88	16.10	0.010749	2.60	16.83	35.91	0.86
Asta 1	700.7482	tr 500	36.99	14.77	15.94	15.94	16.18	0.010868	2.72	19.11	37.74	0.87
Asta 1	672.5763	tr 50	22.51	14.26	15.09	15.12	15.27	0.013940	2.36	13.88	49.25	0.92
Asta 1	672.5763	tr 100	26.72	14.26	15.16	15.18	15.32	0.011170	2.25	17.65	59.17	0.84
Asta 1	672.5763	tr 200	31.04	14.26	15.12	15.21	15.40	0.021376	2.99	15.08	52.45	1.14
Asta 1	672.5763	tr 500	36.99	14.26	15.16	15.25	15.47	0.021750	3.14	17.54	59.15	1.17
Asta 1	653.0841	tr 50	22.51	13.41	14.68	14.61	14.76	0.004868	1.59	21.71	57.84	0.54
Asta 1	653.0841	tr 100	26.72	13.41	14.73	14.64	14.81	0.005008	1.67	24.25	58.58	0.55
Asta 1	653.0841	tr 200	31.04	13.41	14.77	14.67	14.86	0.004977	1.72	26.95	59.36	0.55
Asta 1	653.0841	tr 500	36.99	13.41	14.83	14.71	14.92	0.004939	1.78	30.45	60.35	0.56
Asta 1	638.2894	tr 50	22.51	13.90	14.31		14.41	0.014670	1.53	16.14	55.12	0.93
Asta 1	638.2894	tr 100	26.72	13.90	14.35		14.46	0.014005	1.60	18.23	55.58	0.91
Asta 1	638.2894	tr 200	31.04	13.90	14.37	14.33	14.50	0.014716	1.71	19.71	55.91	0.94
Asta 1	638.2894	tr 500	36.99	13.90	14.41	14.38	14.56	0.015603	1.86	21.60	56.32	0.97
Asta 1	620.6164	tr 50	22.51	13.26	14.02	14.02	14.15	0.014570	2.18	15.44	54.17	0.97
Asta 1	620.6164	tr 100	26.72	13.26	14.05	14.05	14.20	0.015416	2.30	17.00	55.05	1.00
Asta 1	620.6164	tr 200	31.04	13.26	14.09	14.09	14.24	0.014661	2.31	19.13	55.69	0.99
Asta 1	620.6164	tr 500	36.99	13.26	14.14	14.14	14.30	0.013936	2.34	21.81	56.42	0.98
Asta 1	608.2032	tr 50	22.51	13.03	13.55	13.63	13.86	0.034821	2.71	9.19	29.22	1.37
Asta 1	608.2032	tr 100	26.72	13.03	13.61	13.68	13.92	0.029135	2.71	10.86	29.95	1.28
Asta 1	608.2032	tr 200	31.04	13.03	13.66	13.73	13.99	0.026205	2.75	12.37	30.59	1.23
Asta 1	608.2032	tr 500	36.99	13.03	13.73	13.77	14.06	0.022517	2.78	14.55	31.50	1.17
Asta 1	557.7609	tr 50	22.51	11.99	12.31	12.34	12.48	0.030545	1.85	12.44	50.57	1.12
Asta 1	557.7609	tr 100	26.72	11.99	12.36	12.37	12.53	0.025541	1.86	14.64	51.20	1.05

HEC-RAS Plan: 01 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	557.7609	tr 200	31.04	11.99	12.37	12.40	12.58	0.029250	2.05	15.41	51.47	1.14
Asta 1	557.7609	tr 500	36.99	11.99	12.39	12.45	12.65	0.035831	2.34	16.15	51.72	1.27
Asta 1	527.76	tr 50	22.51	10.38	11.42	11.50	11.70	0.021378	3.24	11.74	37.66	1.14
Asta 1	527.76	tr 100	26.72	10.38	11.45	11.53	11.77	0.023513	3.48	12.81	37.82	1.20
Asta 1	527.76	tr 200	31.04	10.38	11.49	11.54	11.81	0.021728	3.46	14.59	38.05	1.16
Asta 1	527.76	tr 500	36.99	10.38	11.56	11.65	11.87	0.019455	3.44	17.26	40.58	1.11
Asta 1	497.872	tr 50	22.51	9.92	10.62	10.72	10.95	0.031092	3.21	10.57	37.90	1.30
Asta 1	497.872	tr 100	26.72	9.92	10.87	10.76	10.97	0.005956	1.77	20.67	41.06	0.60
Asta 1	497.872	tr 200	31.04	9.92	10.96	10.79	11.05	0.004847	1.70	24.36	41.90	0.55
Asta 1	497.872	tr 500	36.99	9.92	11.07	10.84	11.16	0.004008	1.66	29.04	42.96	0.51
Asta 2	441.9154	tr 50	59.83	8.45	10.11	9.97	10.34	0.009978	1.13	35.93	46.06	0.32
Asta 2	441.9154	tr 100	71.39	8.45	10.19	10.06	10.46	0.010290	1.20	40.04	46.86	0.33
Asta 2	441.9154	tr 200	83.16	8.45	10.32	10.14	10.57	0.010596	1.30	46.49	53.07	0.34
Asta 2	441.9154	tr 500	99.10	8.45	10.43	10.28	10.71	0.010526	1.36	52.34	54.67	0.35
Asta 2	406.1731	tr 50	59.83	8.54	9.41	9.28	9.62	0.060541	1.82	29.84	41.04	0.72
Asta 2	406.1731	tr 100	71.39	8.54	9.55	9.36	9.76	0.049300	1.87	35.73	42.35	0.68
Asta 2	406.1731	tr 200	83.16	8.54	9.67	9.44	9.89	0.044053	1.95	40.86	43.33	0.65
Asta 2	406.1731	tr 500	99.10	8.54	9.82	9.54	10.05	0.039040	2.03	47.51	44.41	0.63
Asta 2	363.3358	tr 50	59.83	5.83	8.72		8.81	0.008461	1.60	50.96	44.61	0.33
Asta 2	363.3358	tr 100	71.39	5.83	8.89		8.99	0.008599	1.69	58.73	46.73	0.34
Asta 2	363.3358	tr 200	83.16	5.83	9.04		9.14	0.008595	1.76	65.73	48.02	0.34
Asta 2	363.3358	tr 500	99.10	5.83	9.22		9.33	0.008573	1.83	74.58	49.14	0.35
Asta 2	331.3708	tr 50	59.83	5.98	8.44		8.53	0.009266	1.58	49.68	37.13	0.34
Asta 2	331.3708	tr 100	71.39	5.98	8.61		8.70	0.009244	1.65	55.89	37.82	0.34
Asta 2	331.3708	tr 200	83.16	5.98	8.75		8.85	0.009526	1.74	61.23	38.41	0.35
Asta 2	331.3708	tr 500	99.10	5.98	8.92		9.04	0.009954	1.86	67.80	39.14	0.36
Asta 2	280.3926	tr 50	59.83	4.96	7.75	7.25	7.90	0.017006	2.13	39.74	35.79	0.45
Asta 2	280.3926	tr 100	71.39	4.96	7.70		7.94	0.027166	2.66	38.15	35.59	0.57
Asta 2	280.3926	tr 200	83.16	4.96	7.82		8.07	0.027660	2.77	42.22	36.11	0.58
Asta 2	280.3926	tr 500	99.10	4.96	8.02		8.26	0.024759	2.77	49.55	37.04	0.56
Asta 2	216.0257	tr 50	59.83	3.33	5.53	5.53	6.19	0.043601	3.78	17.89	15.18	0.91
Asta 2	216.0257	tr 100	71.39	3.33	6.03	6.03	6.42	0.020204	3.04	31.72	42.77	0.65
Asta 2	216.0257	tr 200	83.16	3.33	6.14	6.14	6.54	0.020174	3.14	36.95	46.54	0.65
Asta 2	216.0257	tr 500	99.10	3.33	6.22	6.22	6.69	0.023462	3.47	40.87	49.25	0.71
Asta 2	191.4055	tr 50	59.83	2.90	5.46	4.31	5.60	0.007892	1.68	38.16	33.92	0.34
Asta 2	191.4055	tr 100	71.39	2.90	5.61	4.54	5.77	0.008382	1.80	43.92	41.62	0.35
Asta 2	191.4055	tr 200	83.16	2.90	5.80	4.73	5.97	0.008014	1.85	53.03	53.28	0.35
Asta 2	191.4055	tr 500	99.10	2.90	6.13	4.88	6.26	0.006197	1.75	73.78	66.94	0.31
Asta 2	170.3536		Culvert									
Asta 2	147.2035	tr 50	59.83	2.80	5.31	3.97	5.35	0.000133	0.91	76.83	47.07	0.18
Asta 2	147.2035	tr 100	71.39	2.80	5.39	4.07	5.43	0.000166	1.03	80.44	48.16	0.21
Asta 2	147.2035	tr 200	83.16	2.80	5.48	4.17	5.54	0.000193	1.14	84.96	49.60	0.22
Asta 2	147.2035	tr 500	99.10	2.80	5.64	4.28	5.69	0.000159	1.08	134.31	95.21	0.21
Asta 2	97.06301	tr 50	59.83	2.10	5.14	5.14	5.32	0.001052	2.17	32.82	38.40	0.56
Asta 2	97.06301	tr 100	71.39	2.10	5.14	5.14	5.39	0.001497	2.59	32.82	38.40	0.66
Asta 2	97.06301	tr 200	83.16	2.10	5.14	5.14	5.48	0.002032	3.02	32.82	38.40	0.77
Asta 2	97.06301	tr 500	99.10	2.10	5.18	5.18	5.63	0.002569	3.45	34.32	39.35	0.87
Asta 2	52.14715	tr 50	59.83	1.60	2.75	3.27	4.99	0.017646	7.73	10.26	20.45	2.57
Asta 2	52.14715	tr 100	71.39	1.60	2.84	3.38	5.04	0.015674	7.76	12.19	21.42	2.46
Asta 2	52.14715	tr 200	83.16	1.60	2.93	3.49	5.11	0.014154	7.80	14.11	22.30	2.37
Asta 2	52.14715	tr 500	99.10	1.60	3.04	3.62	5.23	0.012761	7.88	16.54	23.15	2.29
Asta 2	7.07313	tr 50	59.83	0.29	1.80	0.72	1.80	0.000039	0.27	265.21	231.78	0.07
Asta 2	7.07313	tr 100	71.39	0.29	1.80	0.75	1.80	0.000055	0.32	265.21	231.78	0.08
Asta 2	7.07313	tr 200	83.16	0.29	1.80	0.78	1.81	0.000075	0.37	265.21	231.78	0.10
Asta 2	7.07313	tr 500	99.10	0.29	1.80	0.82	1.81	0.000106	0.44	265.21	231.78	0.12