



CIUTAT DE L'ALGUER
CITTA' DI ALGHERO

COMUNE DI ALGHERO

PROVINCIA DI SASSARI



REGIONE AUTONOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale

ELABORATO :

REPORT DEI CALCOLI IDRAULICI IN MOTO PERMANENTE

REVISIONI				ALLEGATO	SCALA	
n°	MODIFICA	DATA	CTRL		CODICE	
01	Consegna	Feb. 2021	FC	C-2		
					NOTE	

I Professionisti incaricati :



Studio Associato
4E-INGEGNERIA
Dott. Ing. Fabio Cambula

Il Dirigente

Ing. Michele Fois

Ufficio del Piano Urbanistico

Arch. Angelo Manunta

Geom. Franco Cherchi

L'Assessore all'Urbanistica

Dott. Emiliano Piras

Il Sindaco:

Dott. Mario Conoci

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Il presente elaborato contiene i seguenti modelli:

- Modello 4 – rio Calvia;
- Modello 5 – rio Paggiassu;
- Modello 6 – Gruppo rio Calabona;
- Modello 7 – Gruppo rio Scamunigada.

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

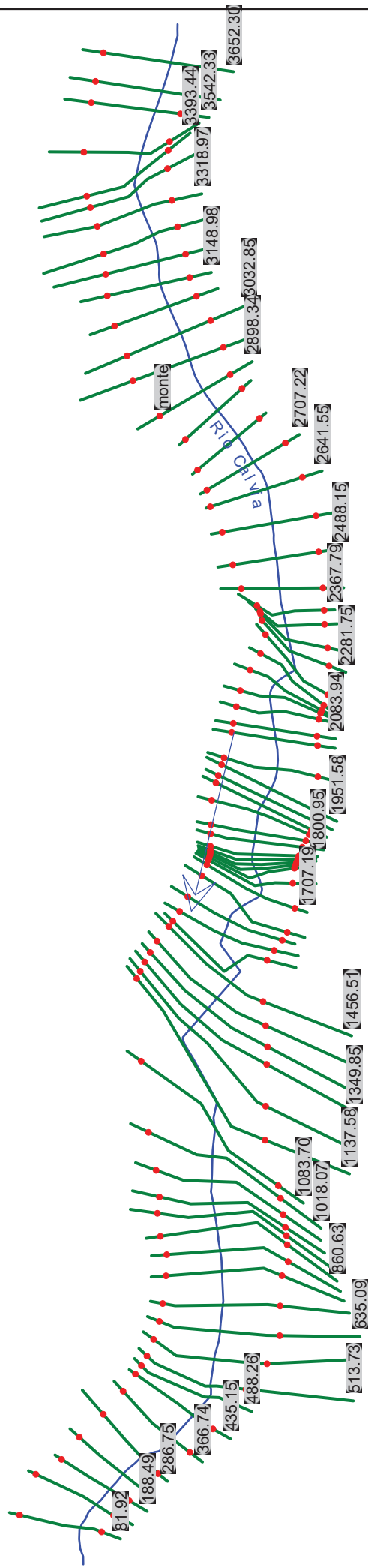
SIMULAZIONI IN MOTO PERMANENTE

Modello 4 – rio Calvia

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

River	Reach	RS	PORTATE mc/s			
			Tr 50	Tr 100	Tr 200	Tr 500
Rio Calvia	monte	3652.3	69.58	83.41	97.55	116.88

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Rio Calvia	monte	all	Normal Depth $S = 0.01$	Known WS

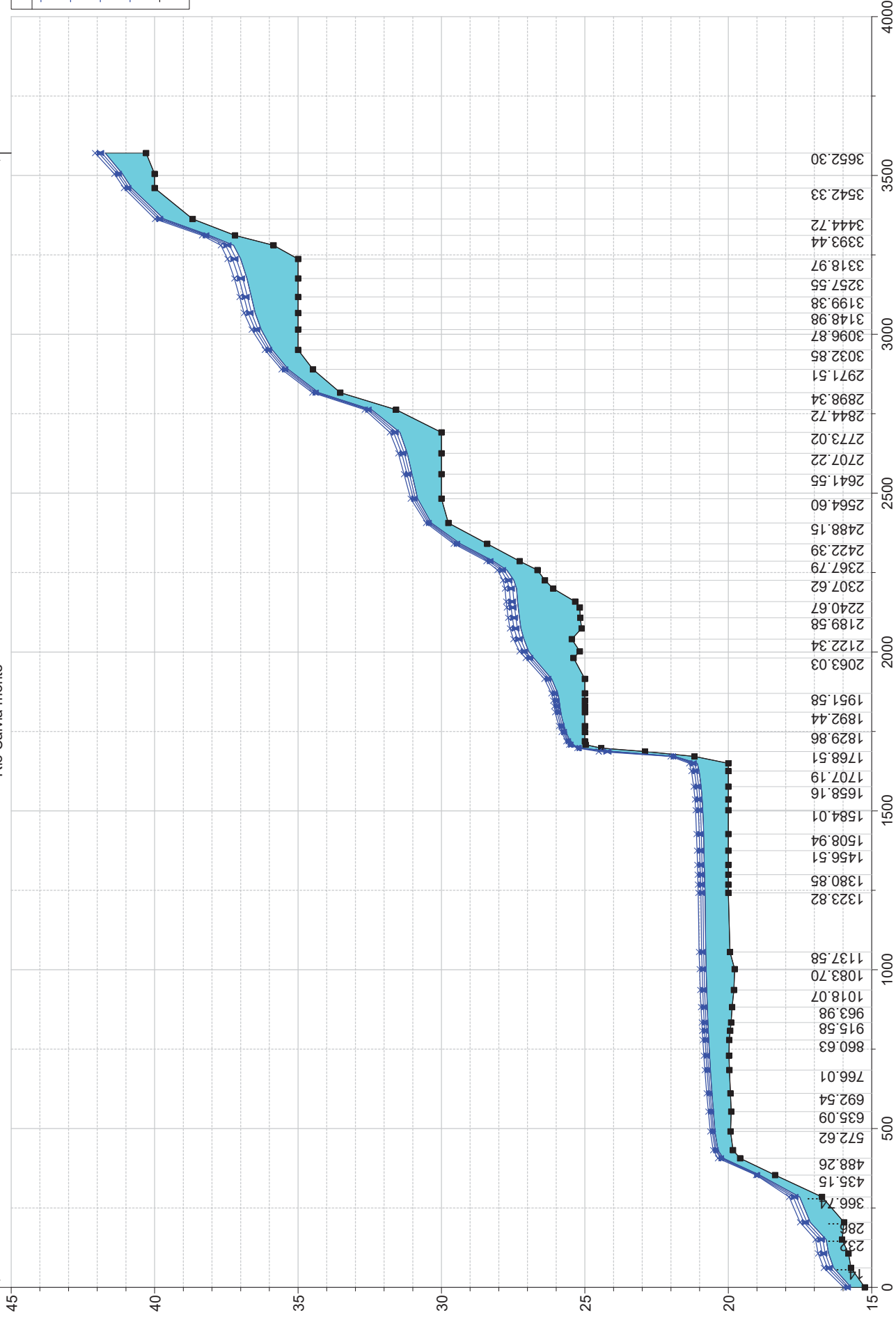


calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Calvia monte

Legend	
WS PF 4	✕
WS PF 3	▶
WS PF 2	▶
WS PF 1	▶
Ground	■



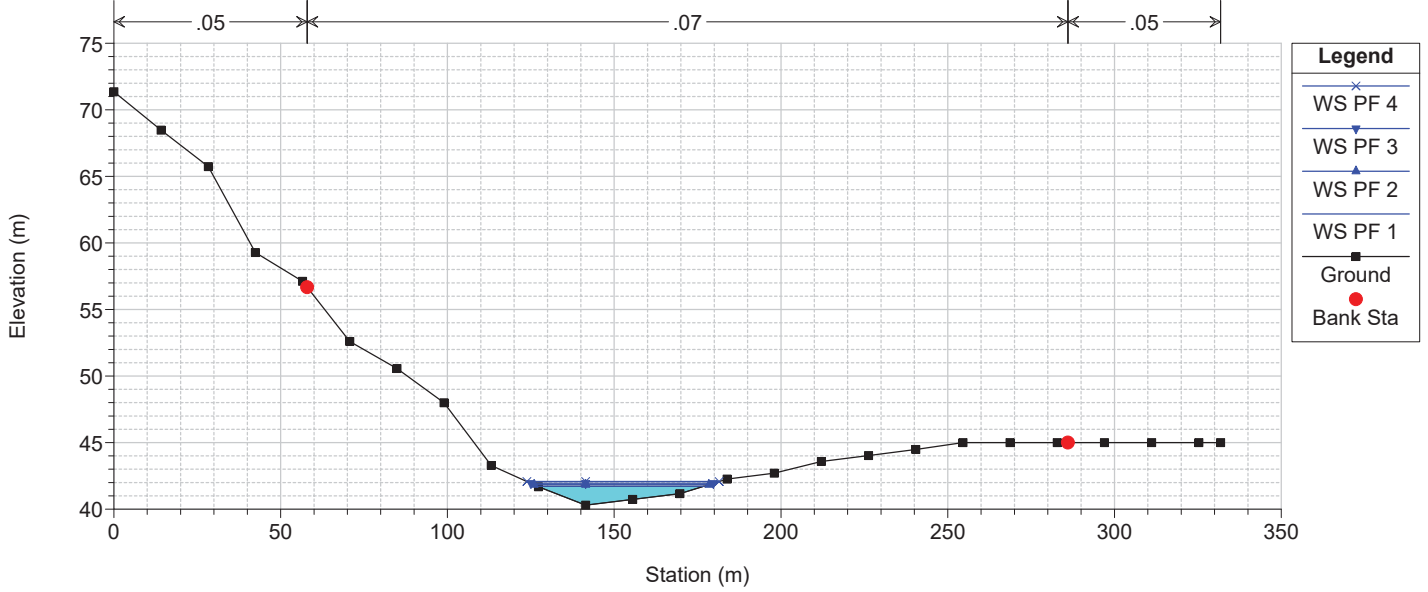
Elevation (m)

Main Channel Distance (m)

calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

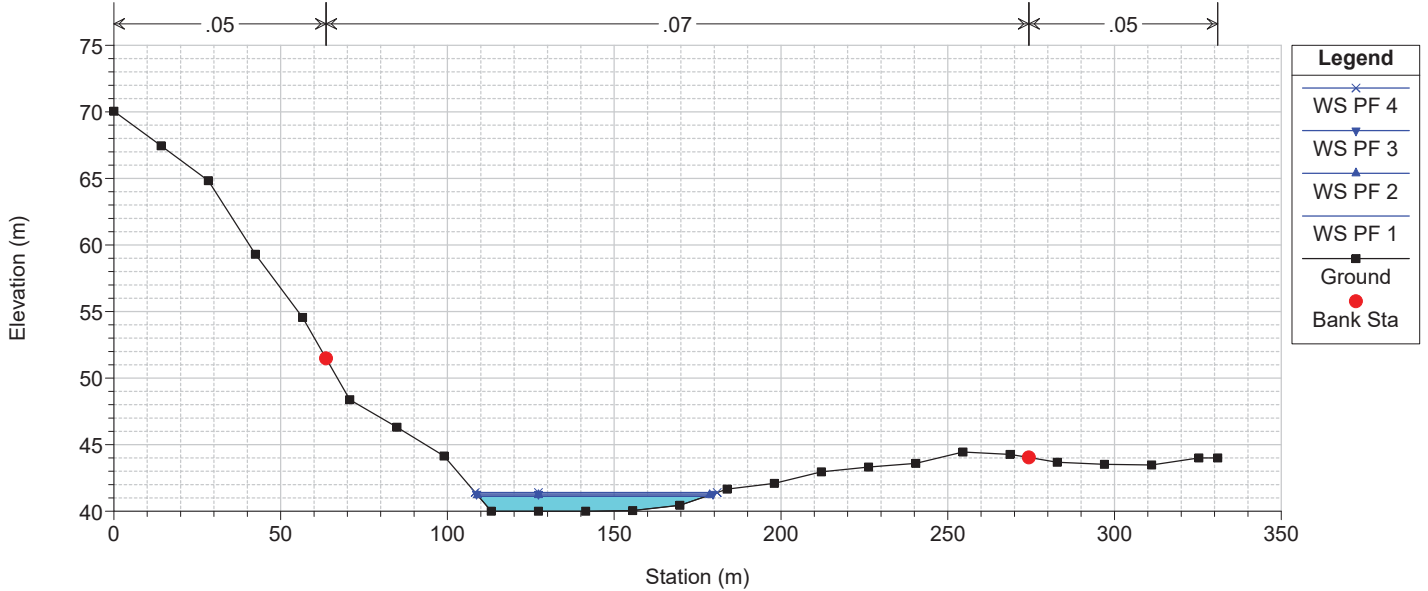
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calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

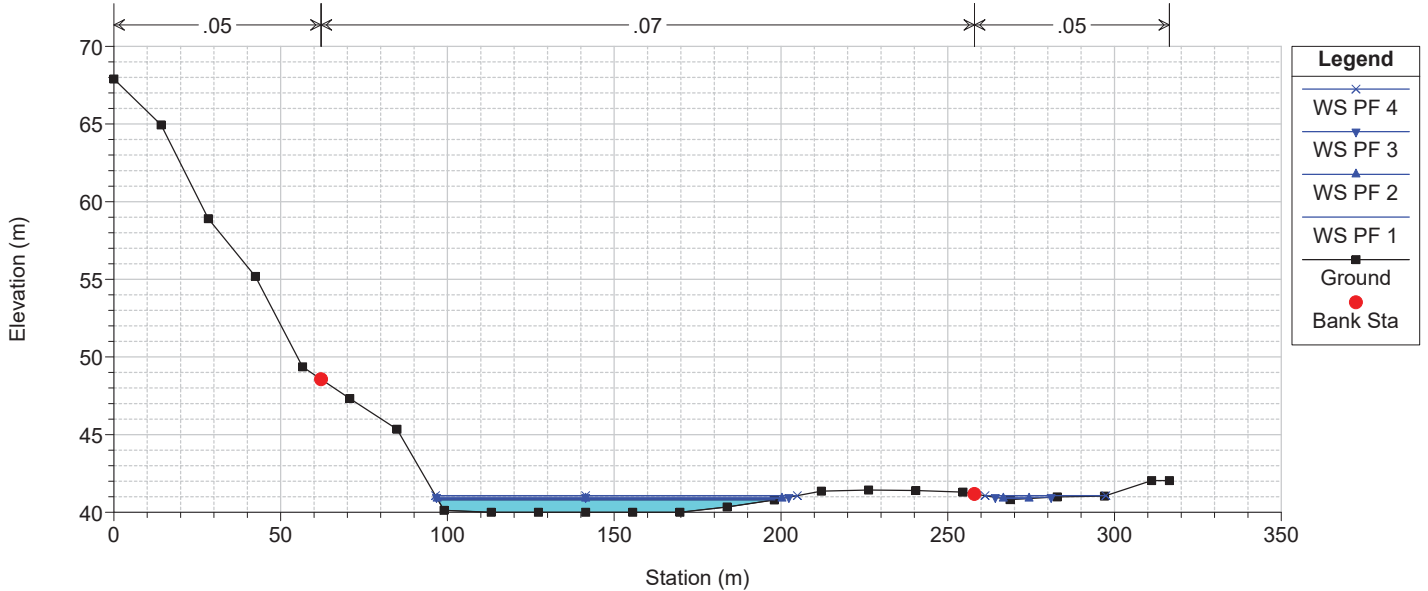
River = Rio Calvia Reach = monte RS = 3586.89 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

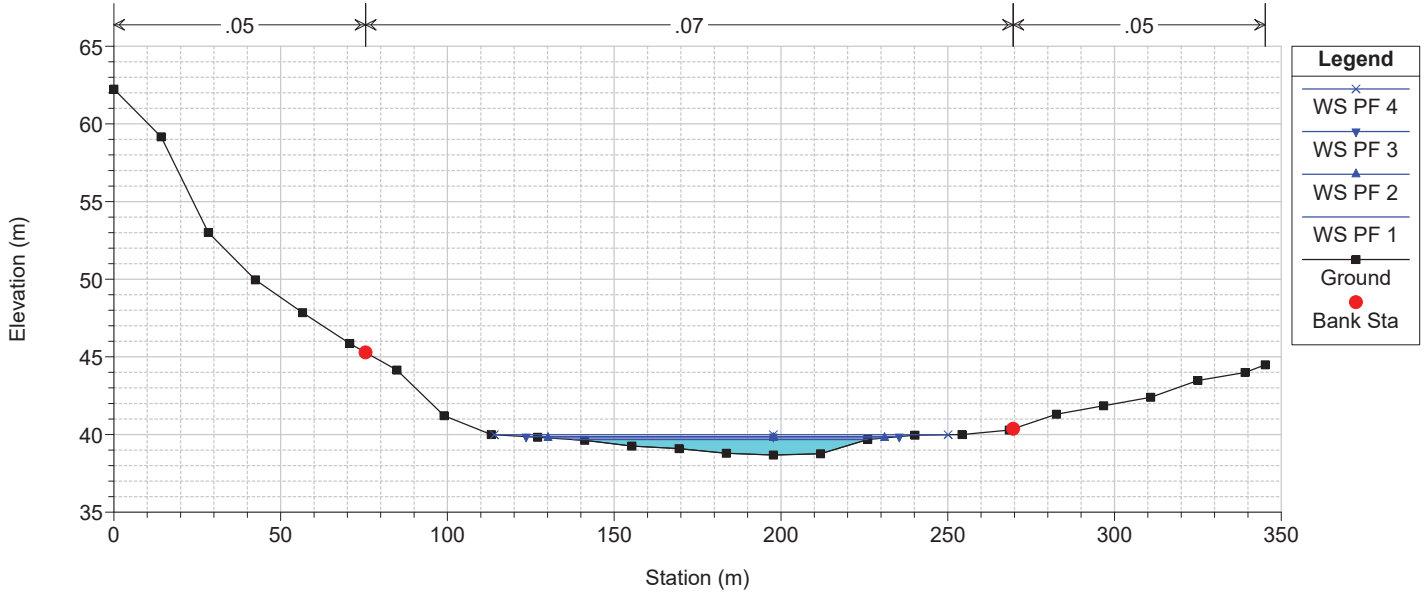
River = Rio Calvia Reach = monte RS = 3542.33 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

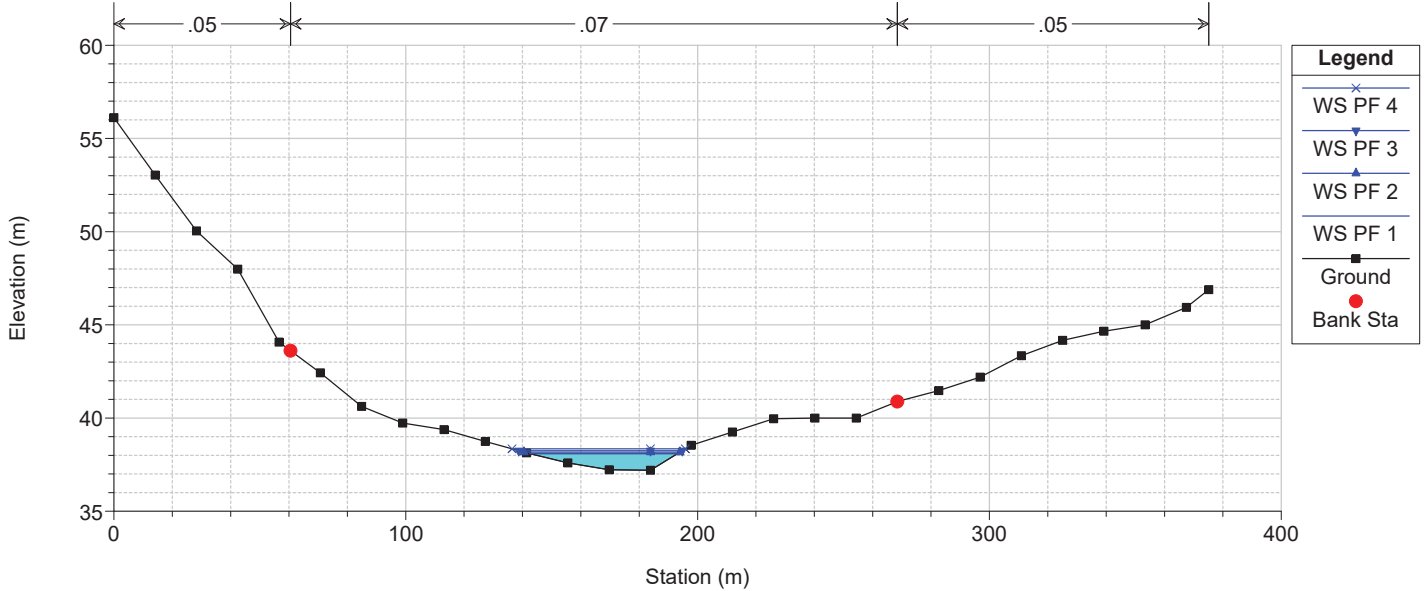
River = Rio Calvia Reach = monte RS = 3444.72 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

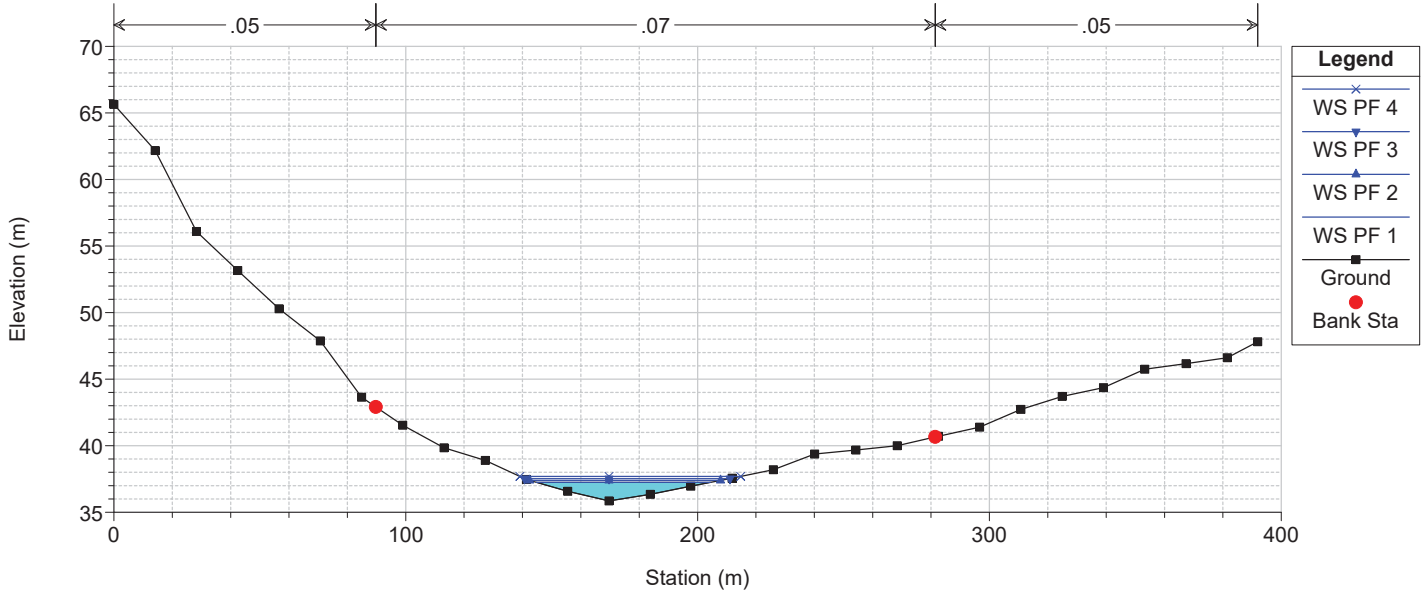
River = Rio Calvia Reach = monte RS = 3393.44 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

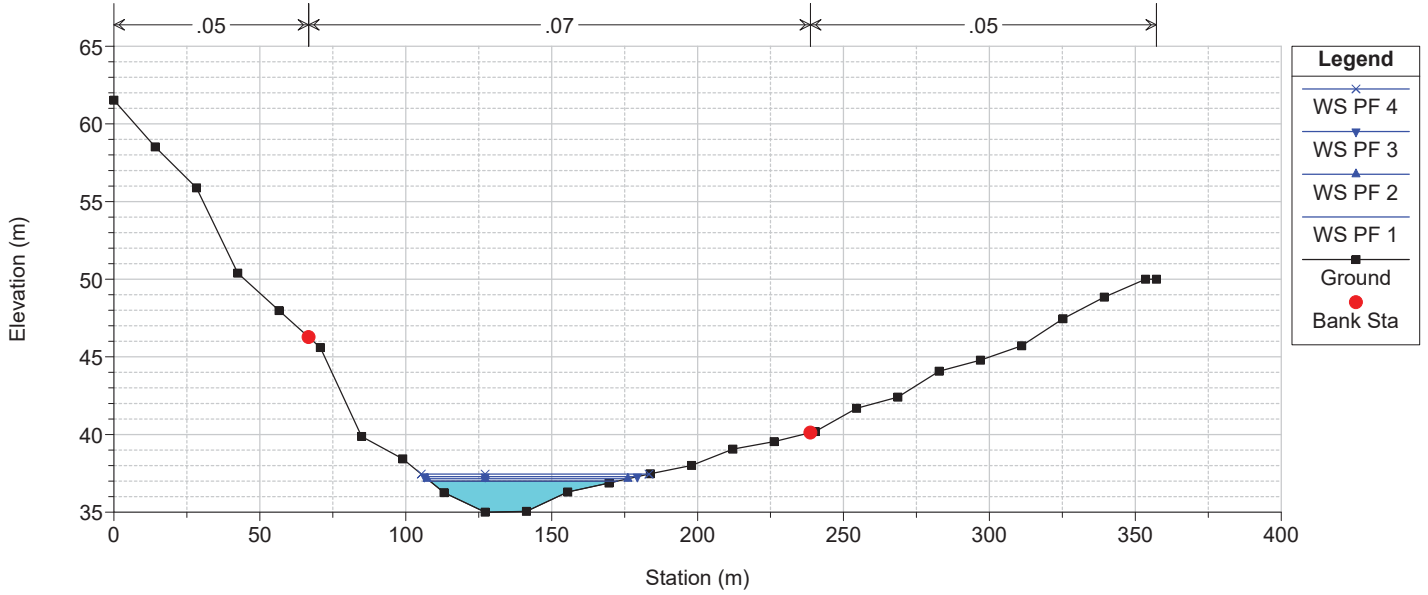
River = Rio Calvia Reach = monte RS = 3362.29 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

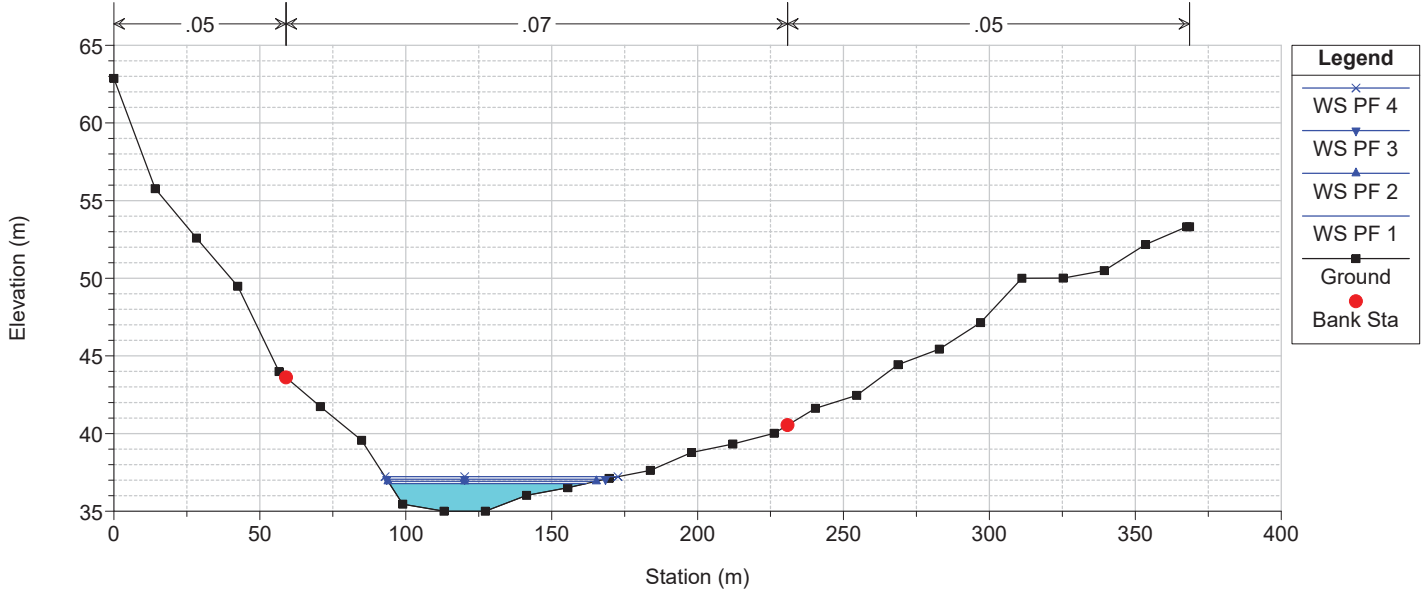
River = Rio Calvia Reach = monte RS = 3318.97 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

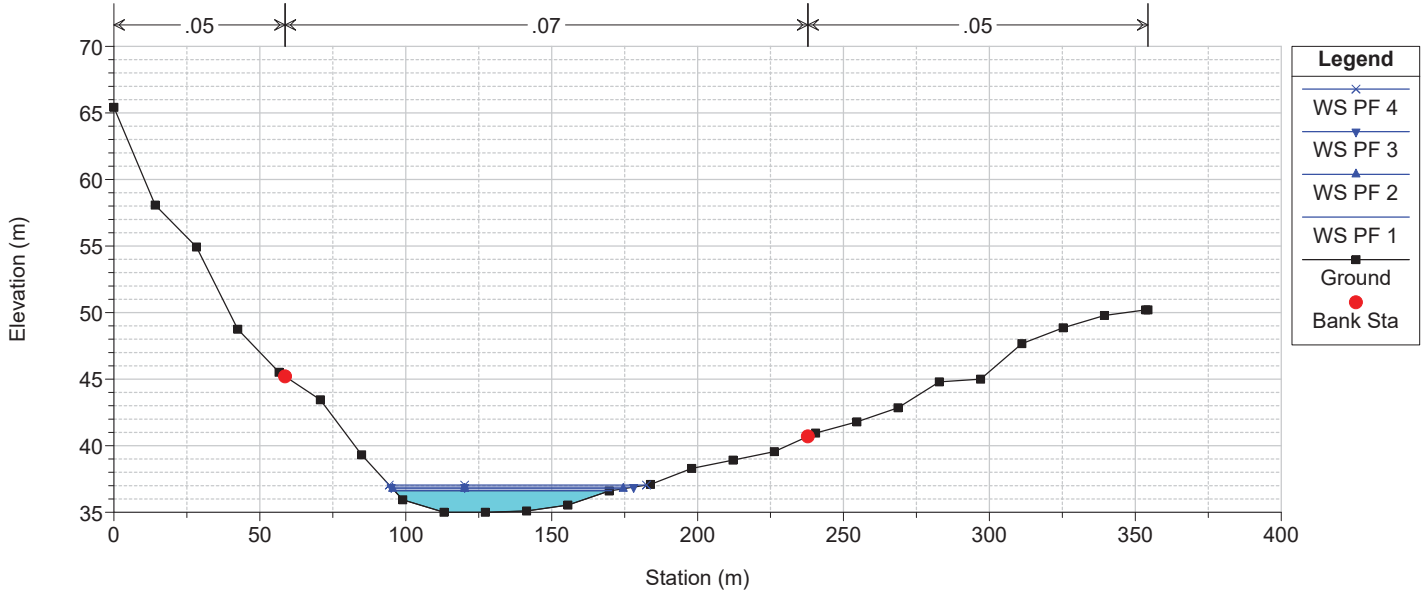
River = Rio Calvia Reach = monte RS = 3257.55 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

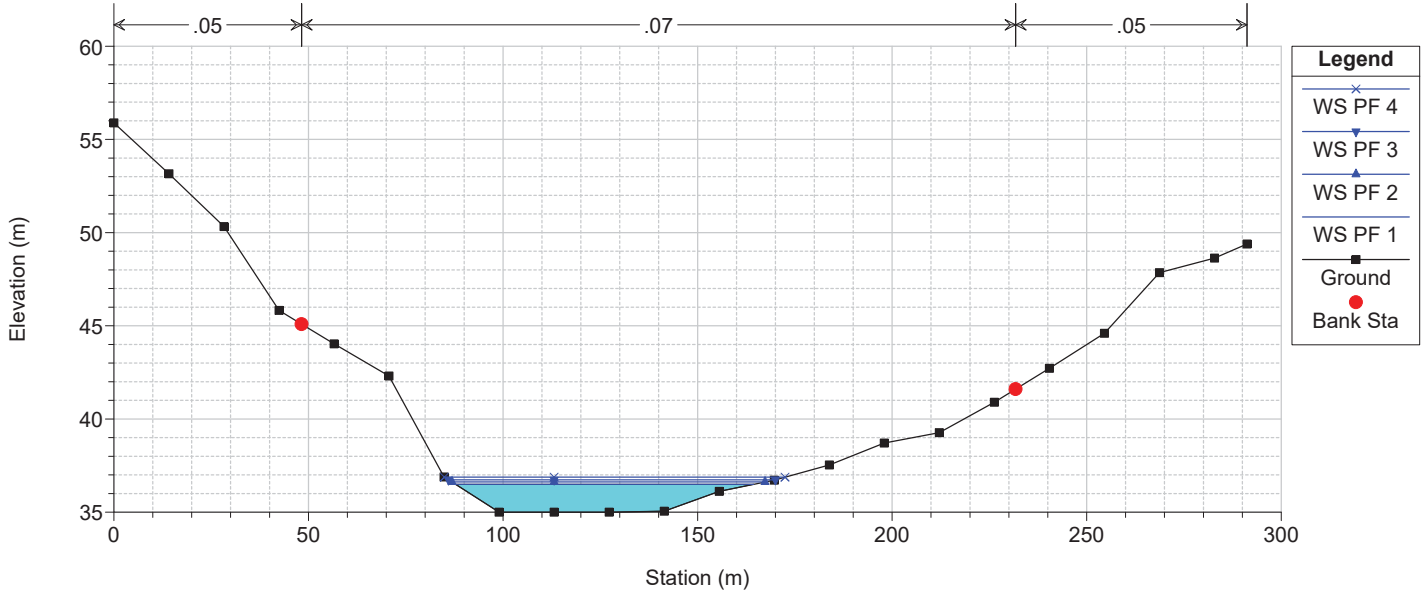
River = Rio Calvia Reach = monte RS = 3199.38 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

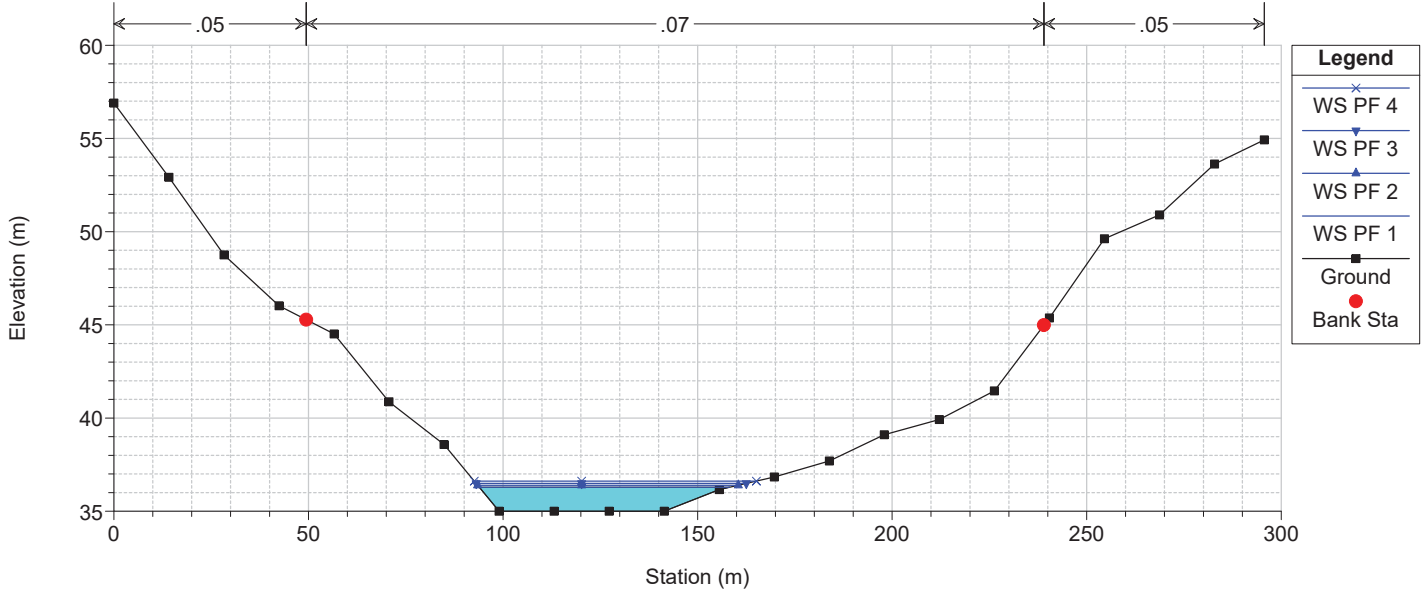
River = Rio Calvia Reach = monte RS = 3148.98 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

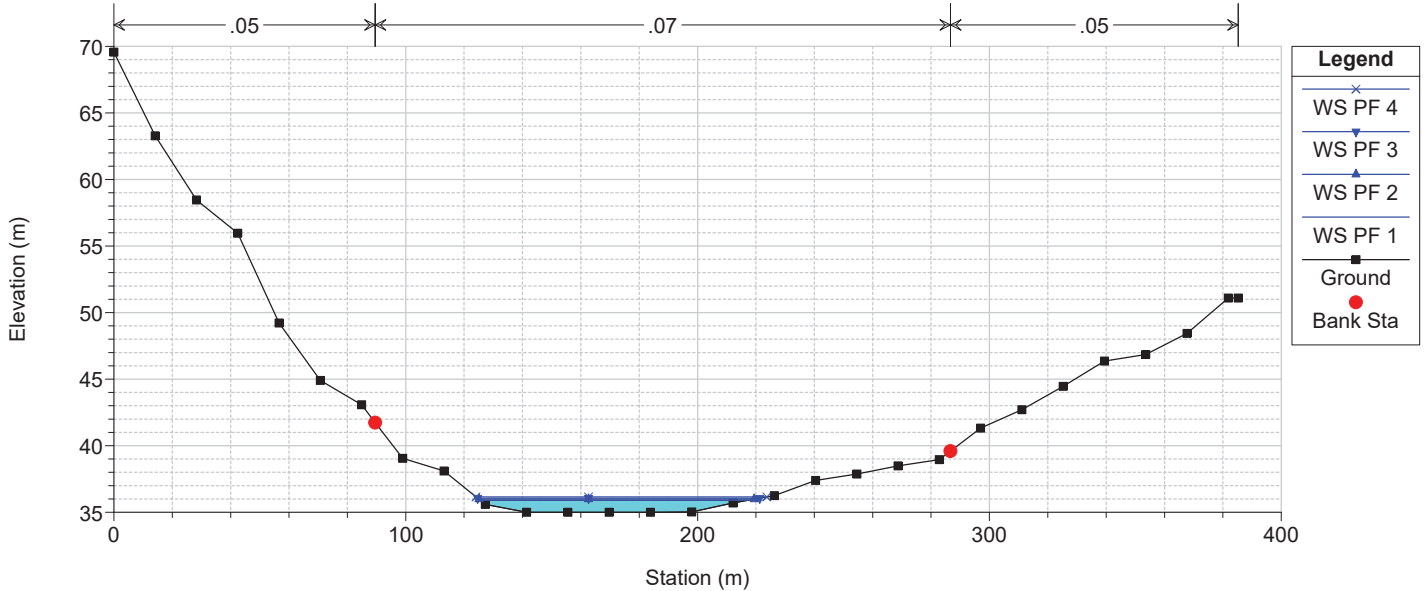
River = Rio Calvia Reach = monte RS = 3096.87 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

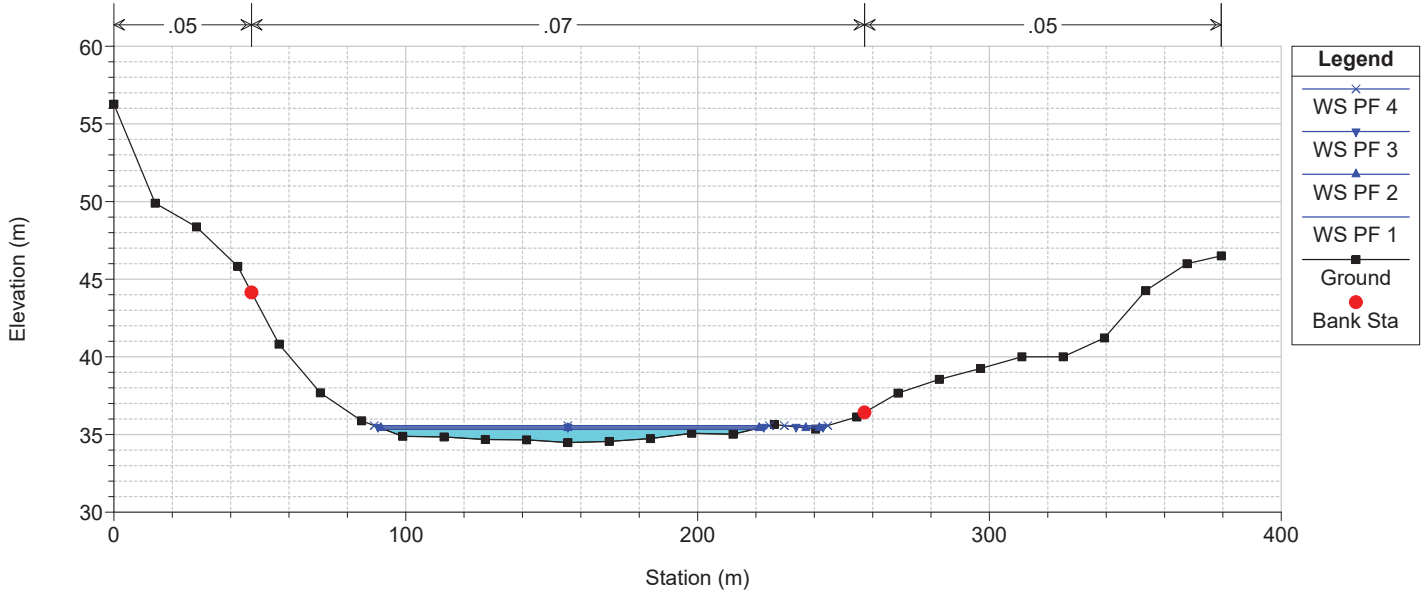
River = Rio Calvia Reach = monte RS = 3032.85 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

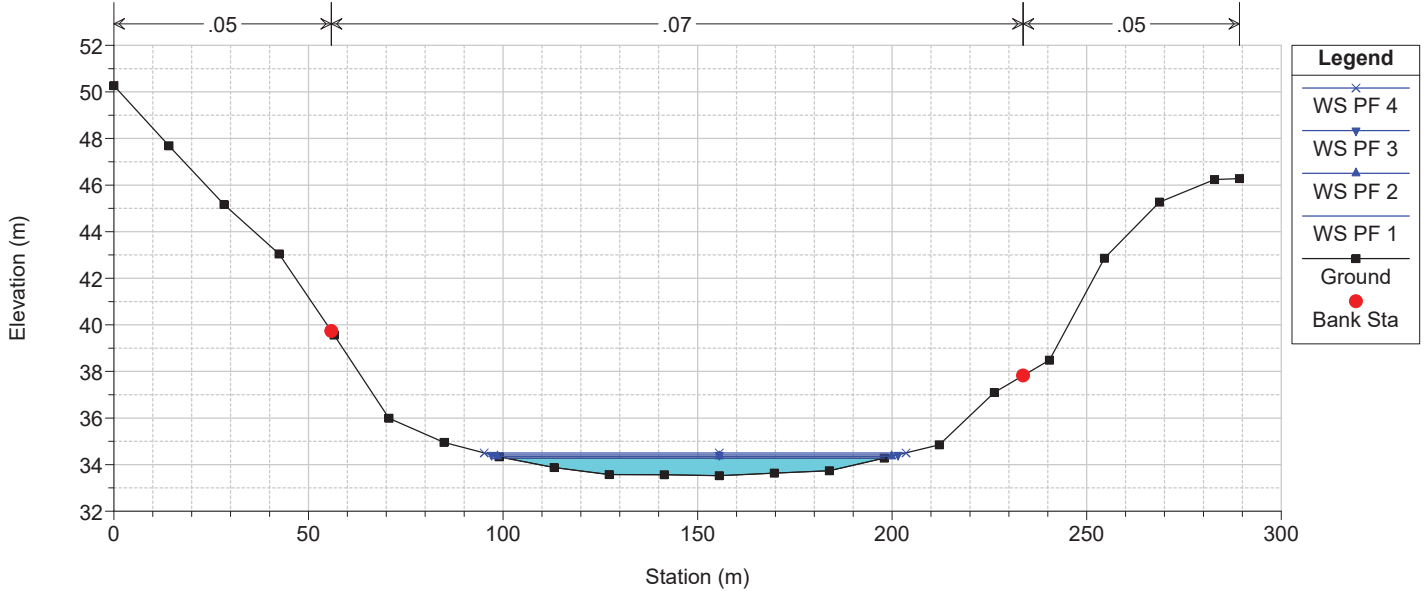
River = Rio Calvia Reach = monte RS = 2971.51 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

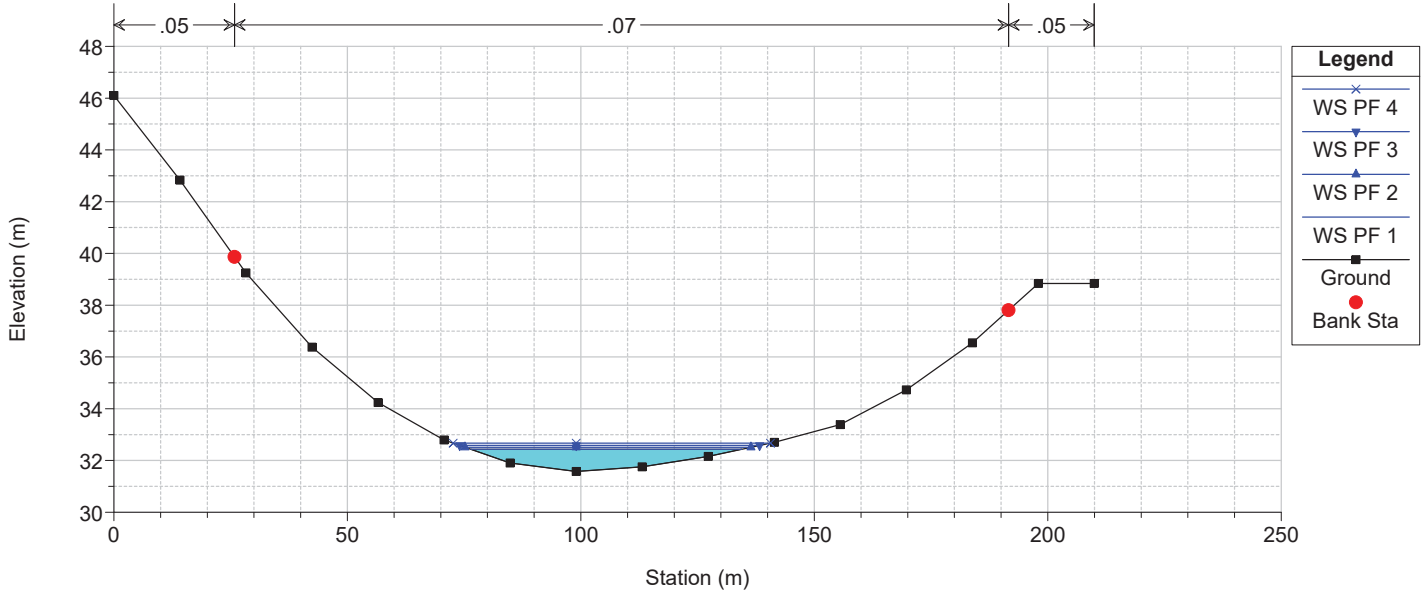
River = Rio Calvia Reach = monte RS = 2898.34 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

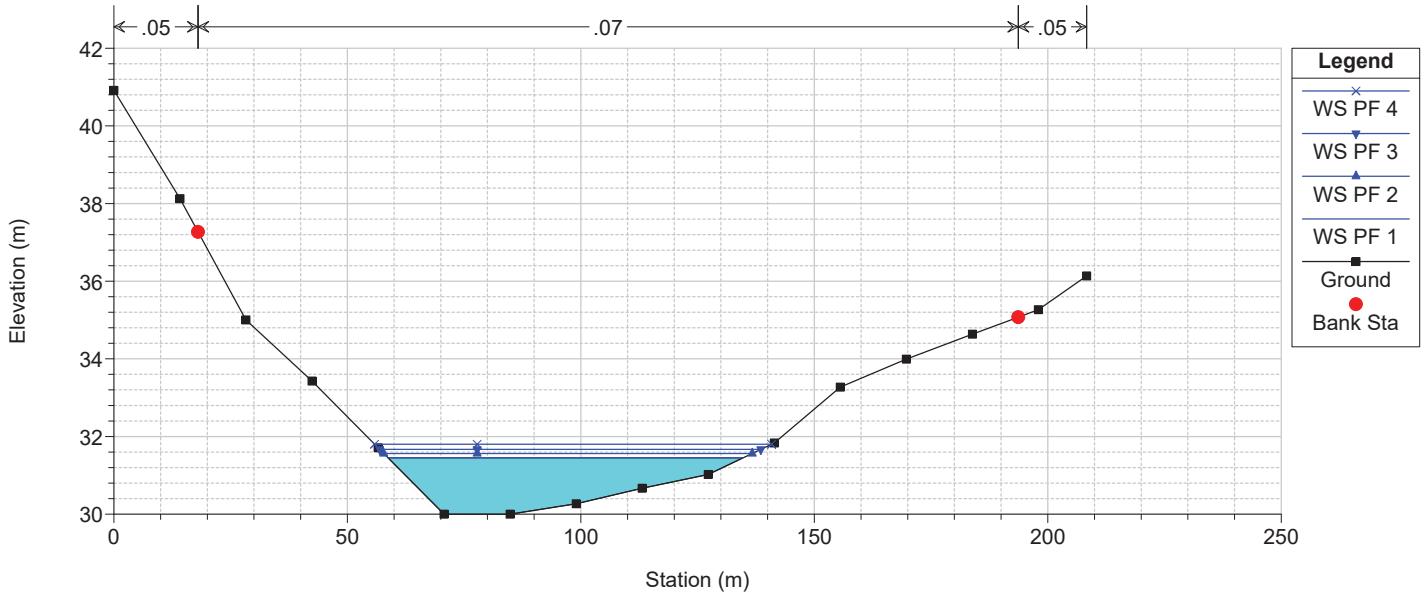
River = Rio Calvia Reach = monte RS = 2844.72 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

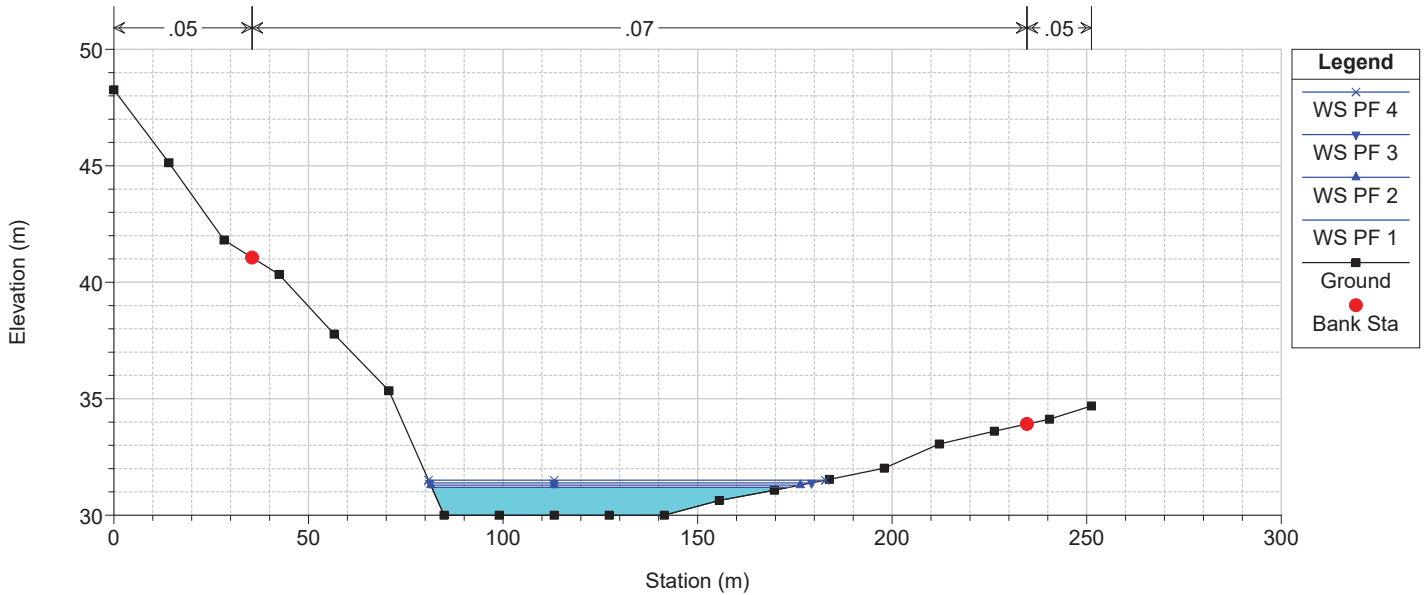
River = Rio Calvia Reach = monte RS = 2773.02 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

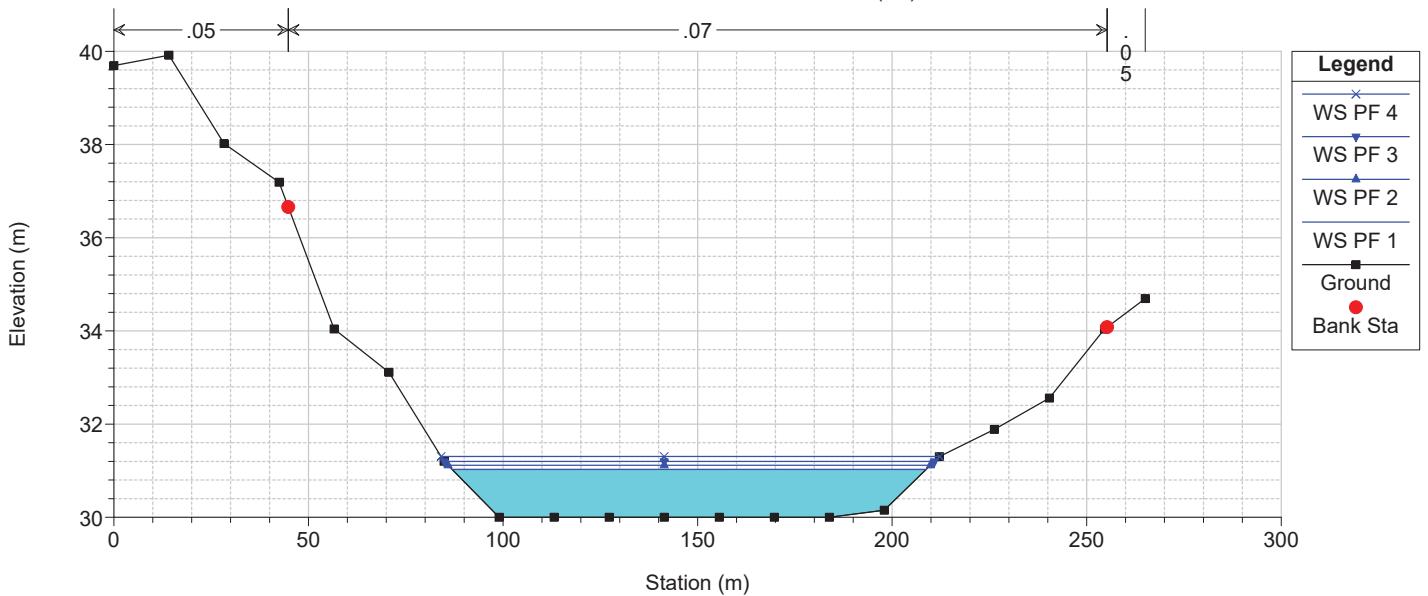
River = Rio Calvia Reach = monte RS = 2707.22 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

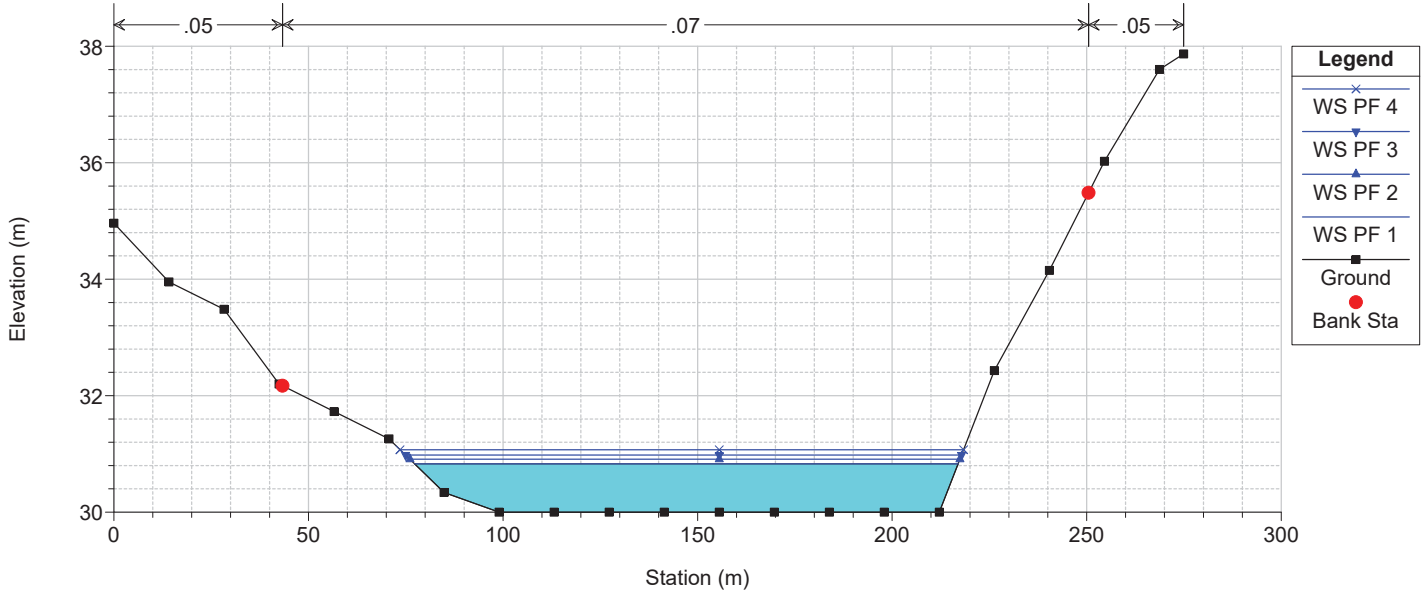
River = Rio Calvia Reach = monte RS = 2641.55 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

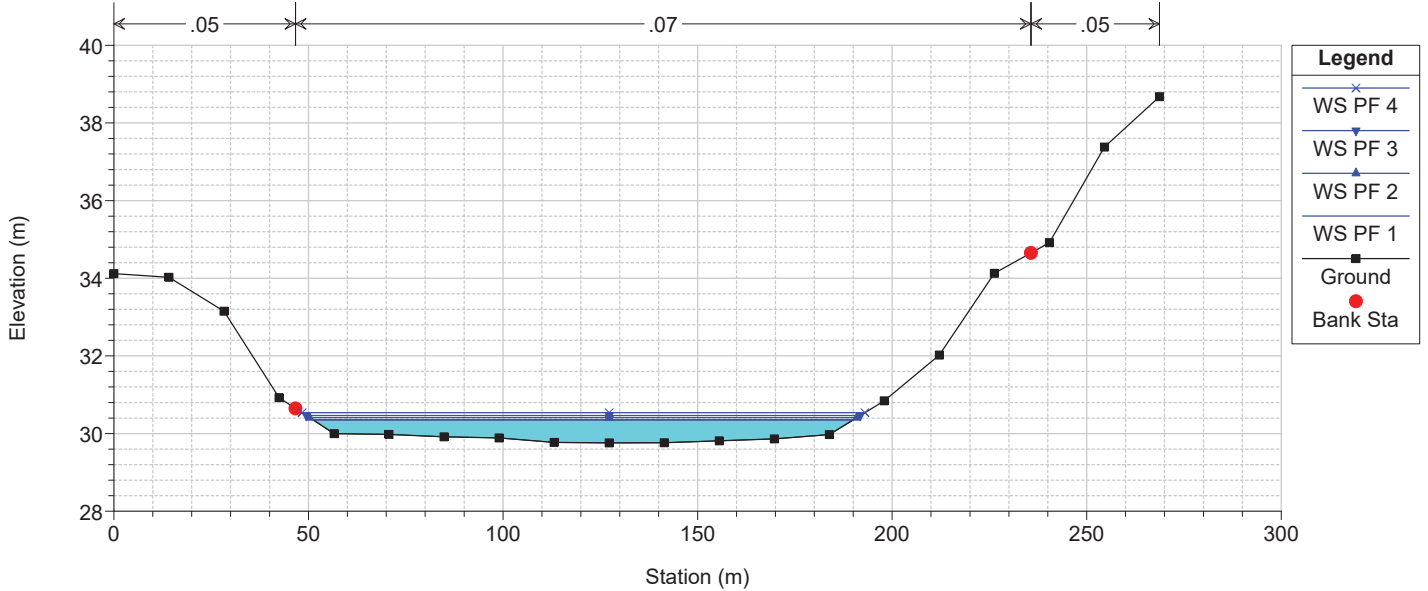
River = Rio Calvia Reach = monte RS = 2564.60 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

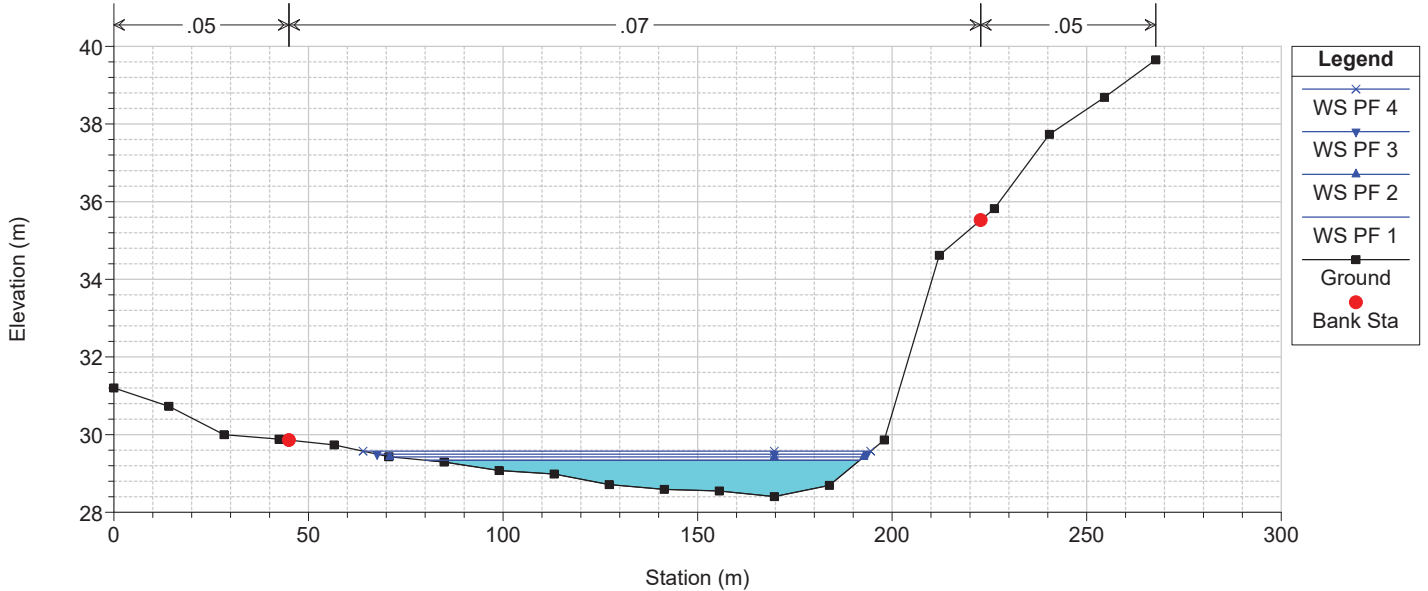
River = Rio Calvia Reach = monte RS = 2488.15 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

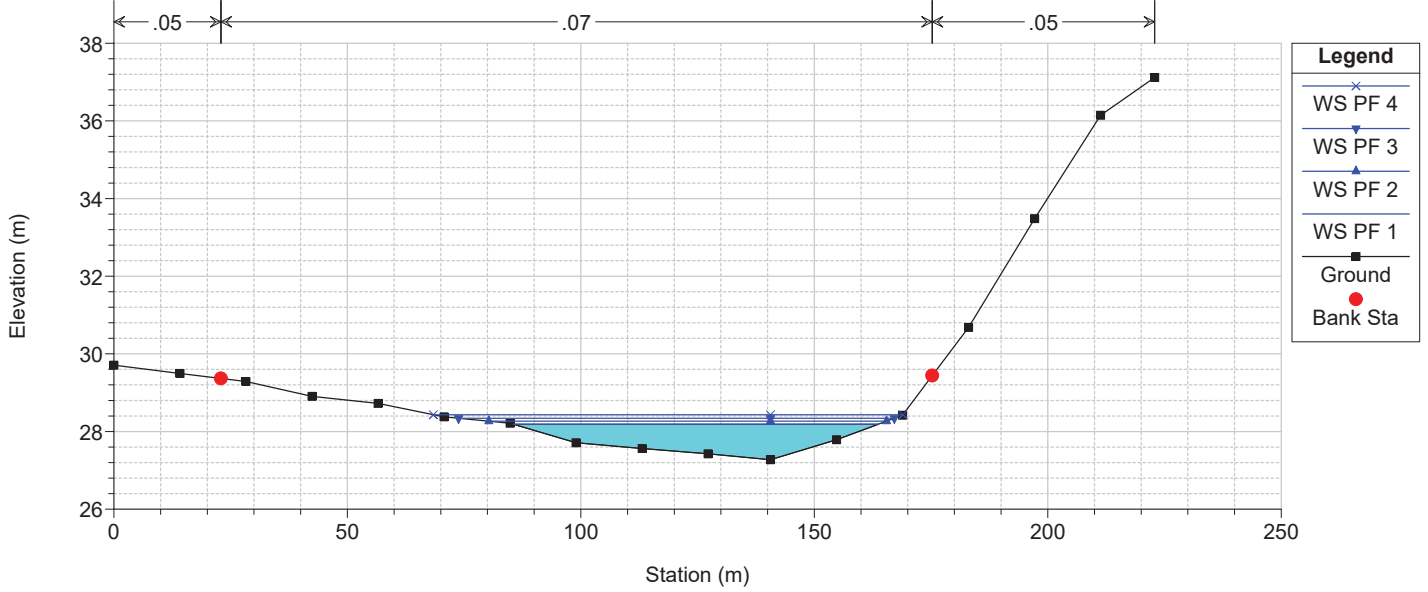
River = Rio Calvia Reach = monte RS = 2422.39 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

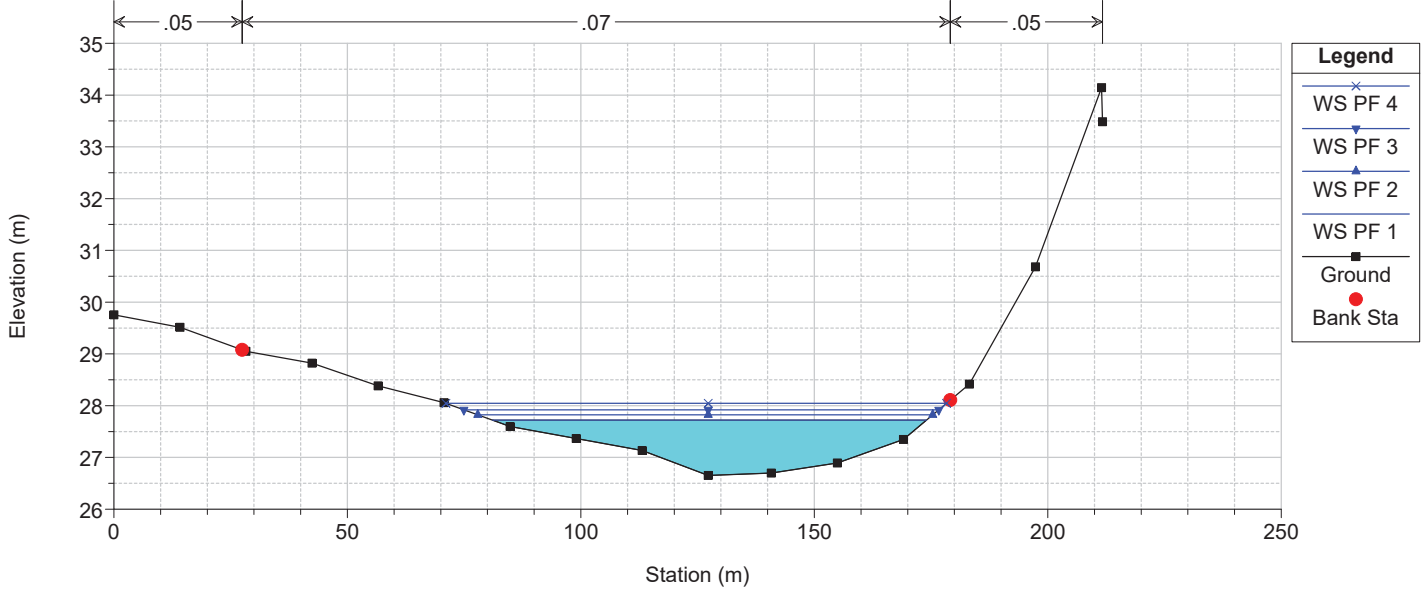
River = Rio Calvia Reach = monte RS = 2367.79 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

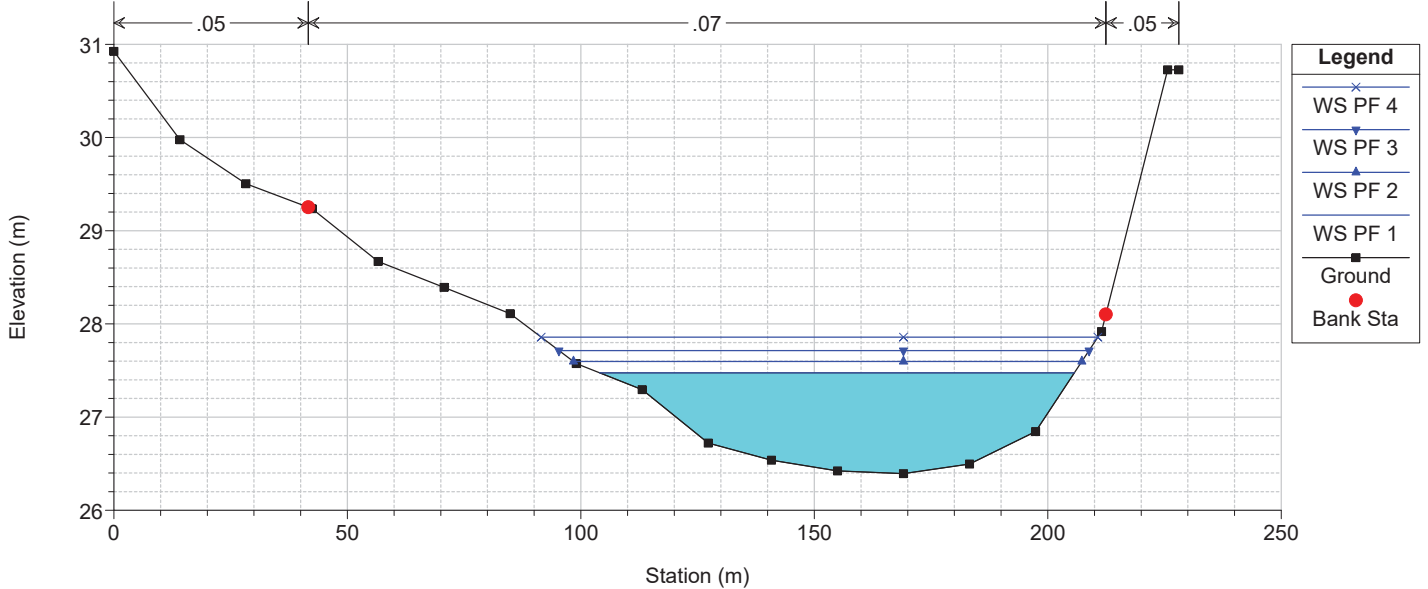
River = Rio Calvia Reach = monte RS = 2339.65 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

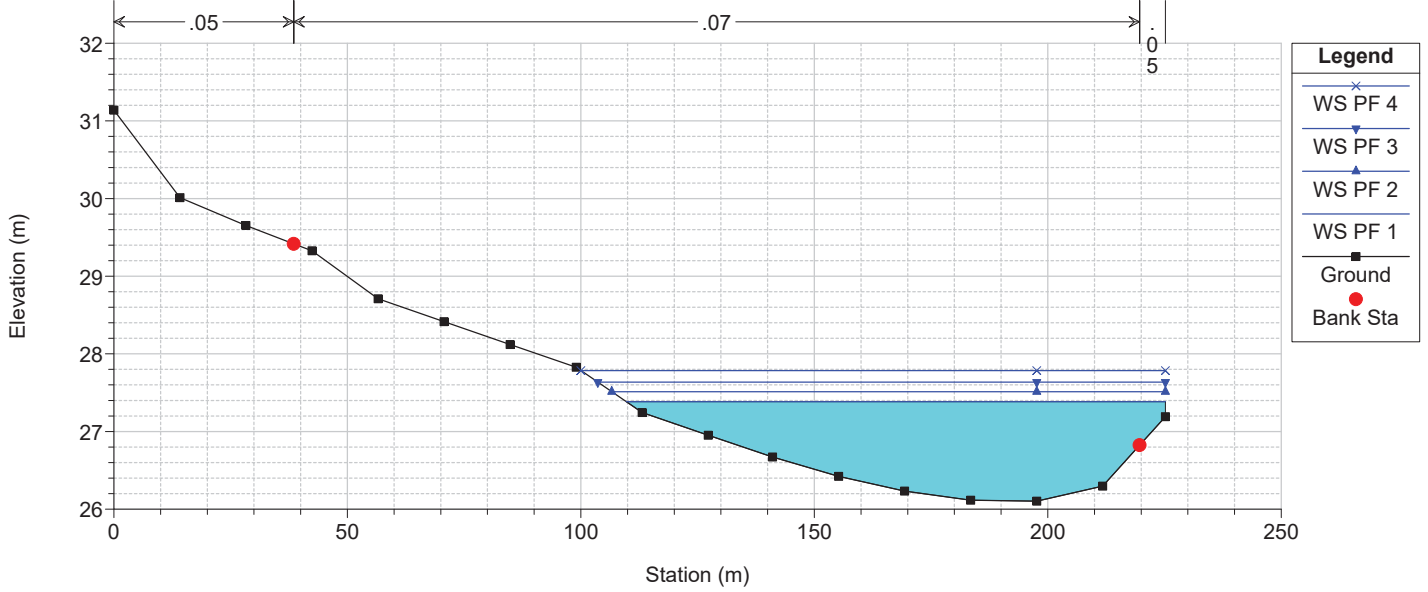
River = Rio Calvia Reach = monte RS = 2307.62 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

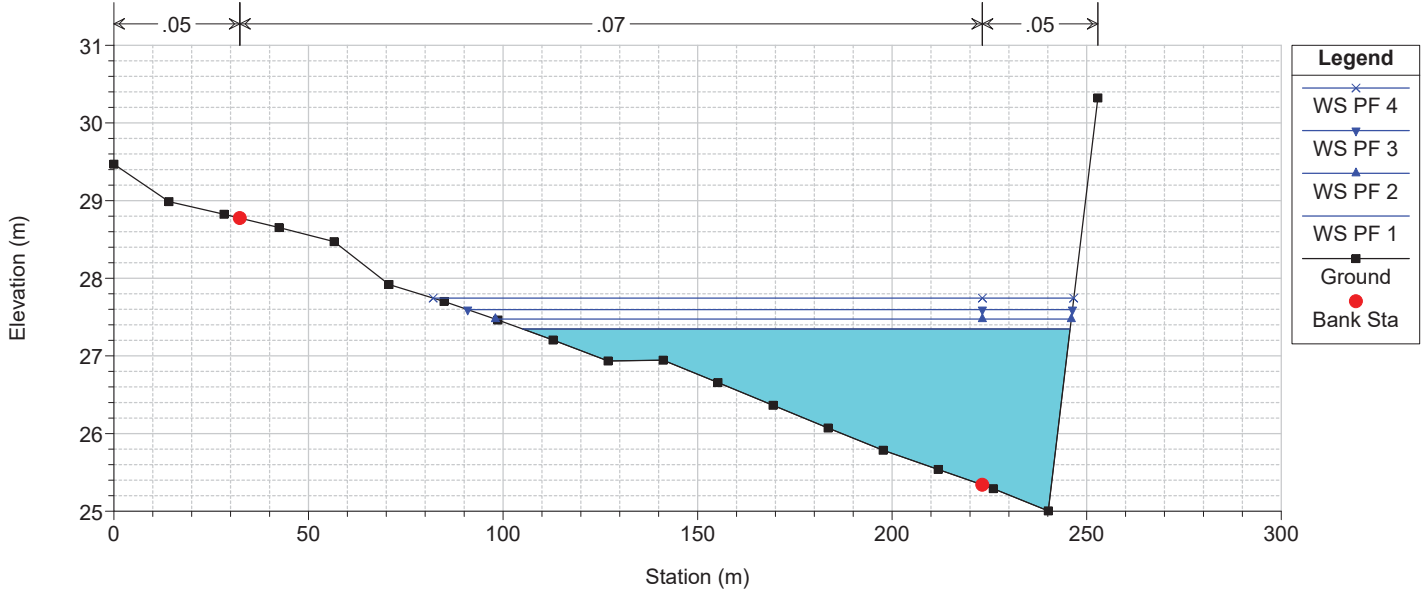
River = Rio Calvia Reach = monte RS = 2281.75 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

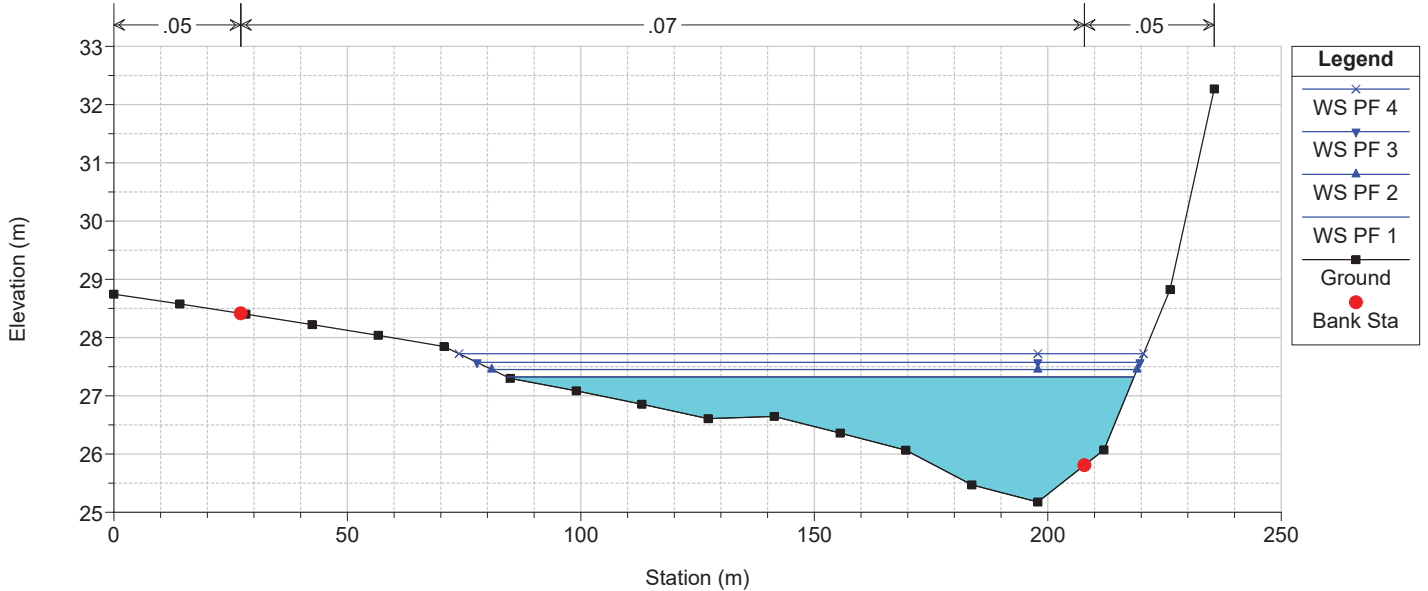
River = Rio Calvia Reach = monte RS = 2240.67 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

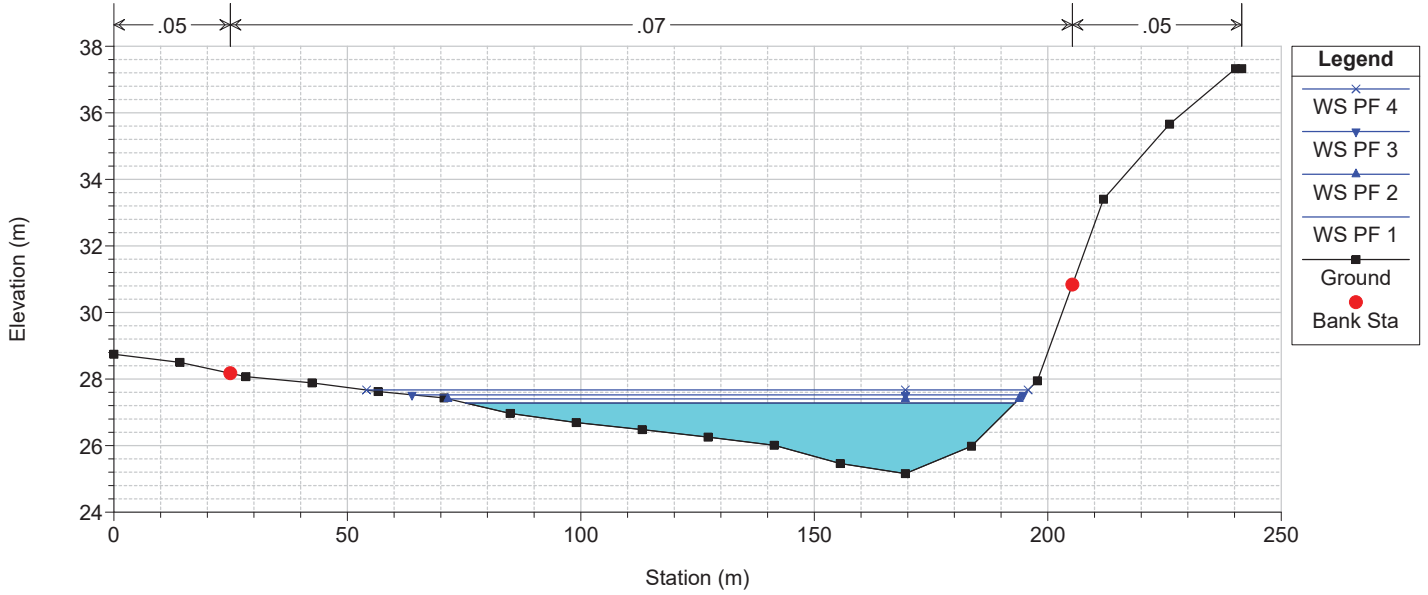
River = Rio Calvia Reach = monte RS = 2222.08 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

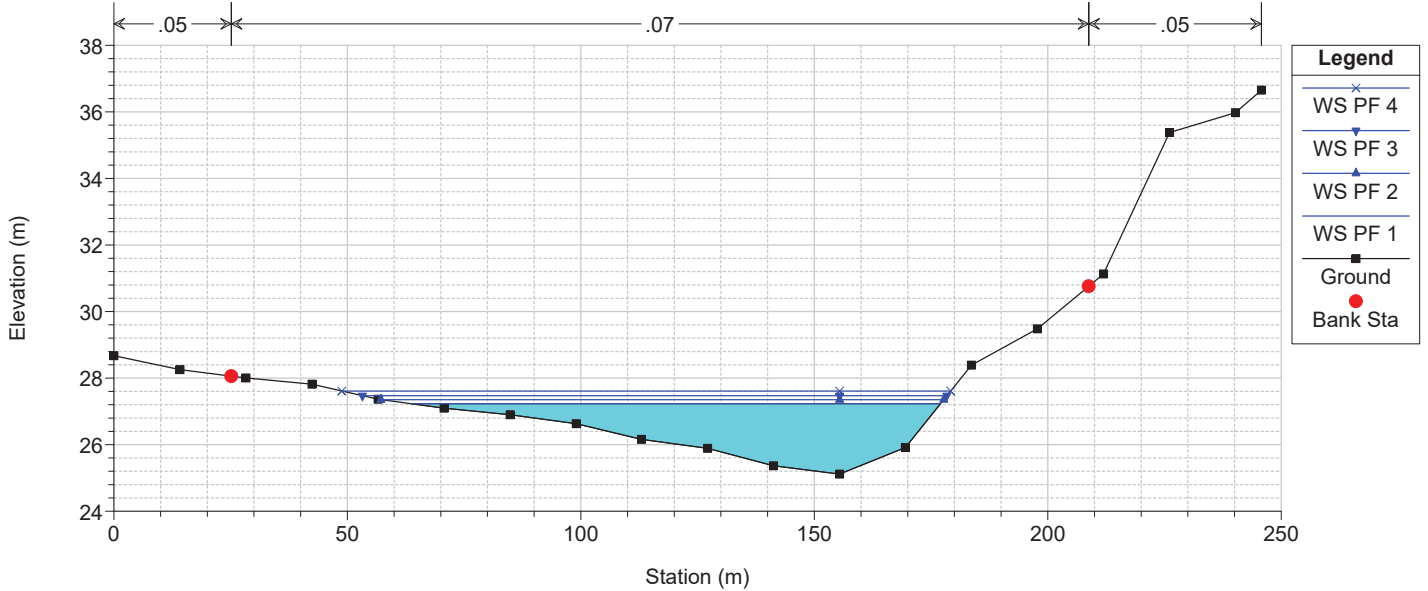
River = Rio Calvia Reach = monte RS = 2189.58 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

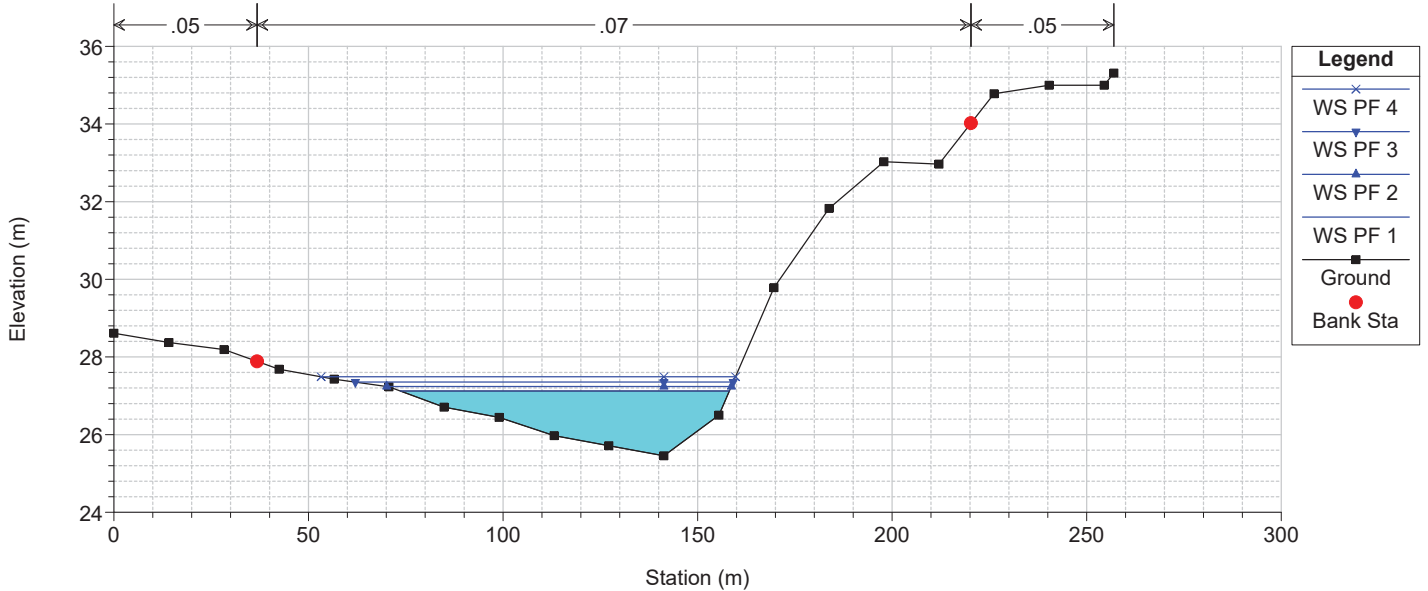
River = Rio Calvia Reach = monte RS = 2156.24 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

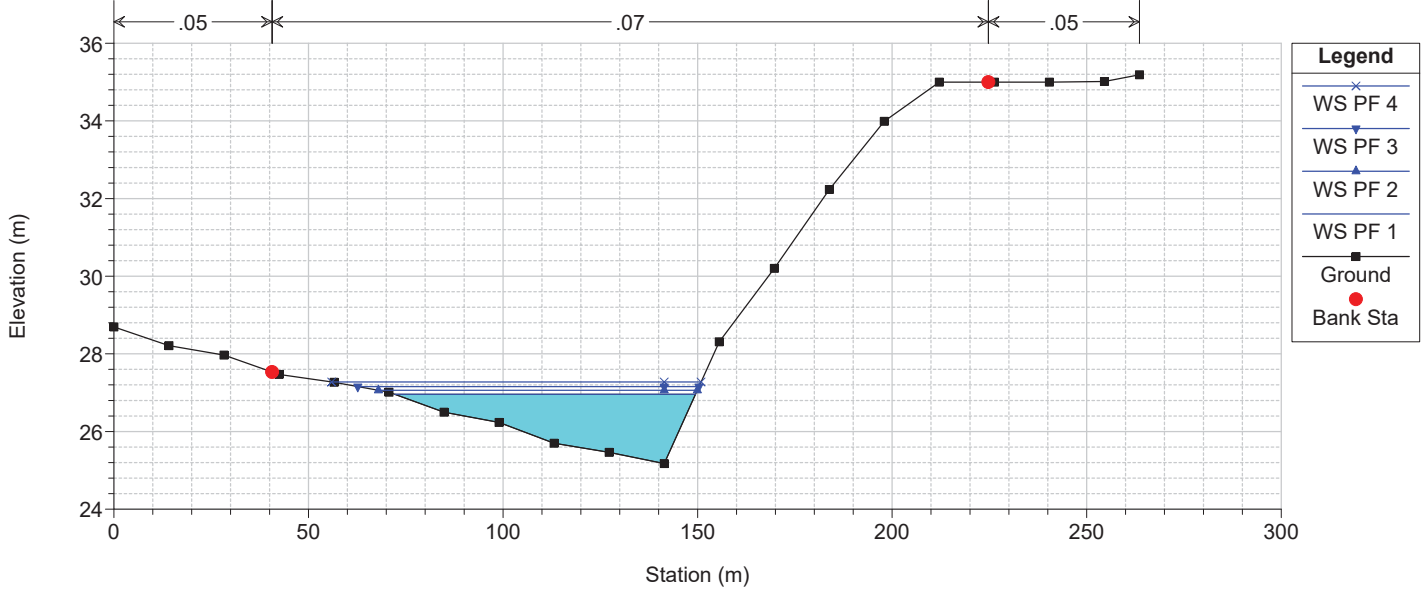
River = Rio Calvia Reach = monte RS = 2122.34 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

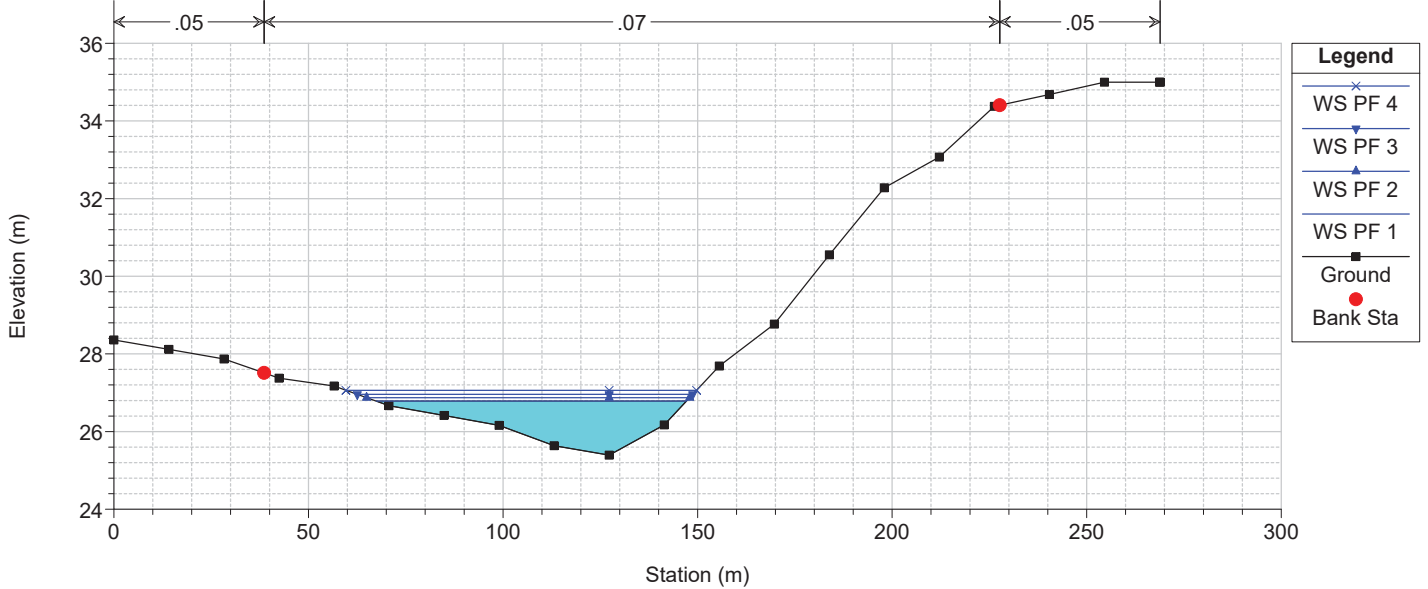
River = Rio Calvia Reach = monte RS = 2083.94 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

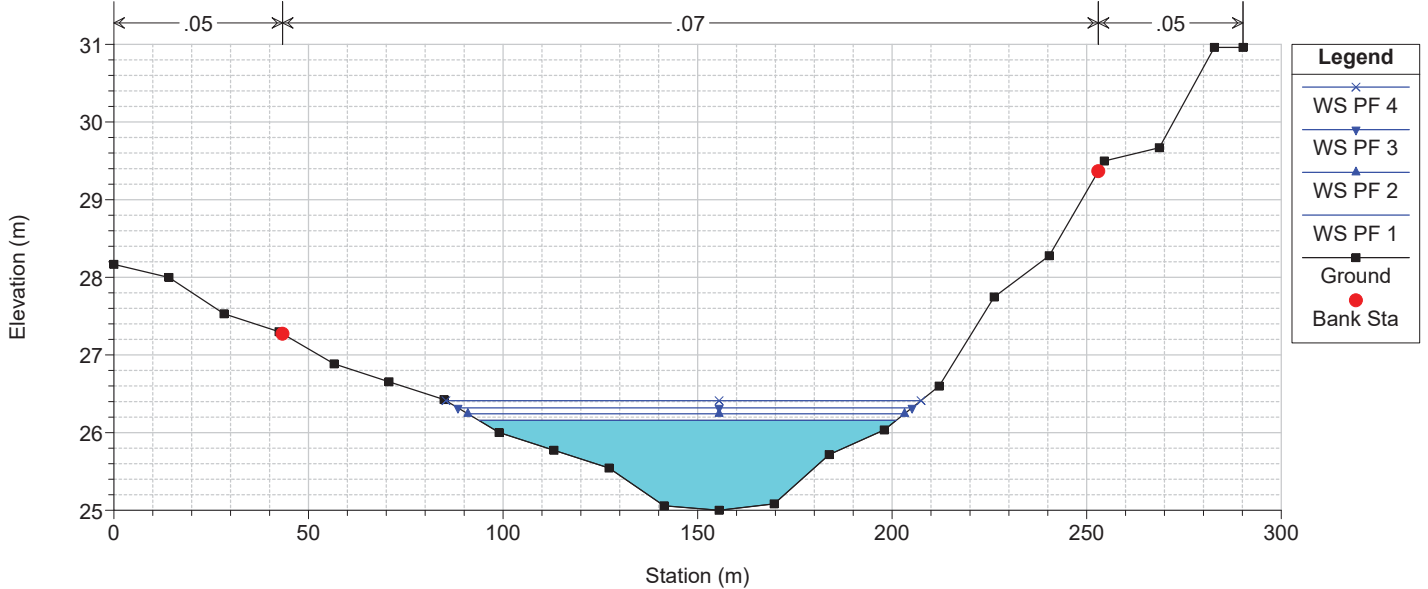
River = Rio Calvia Reach = monte RS = 2063.03 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

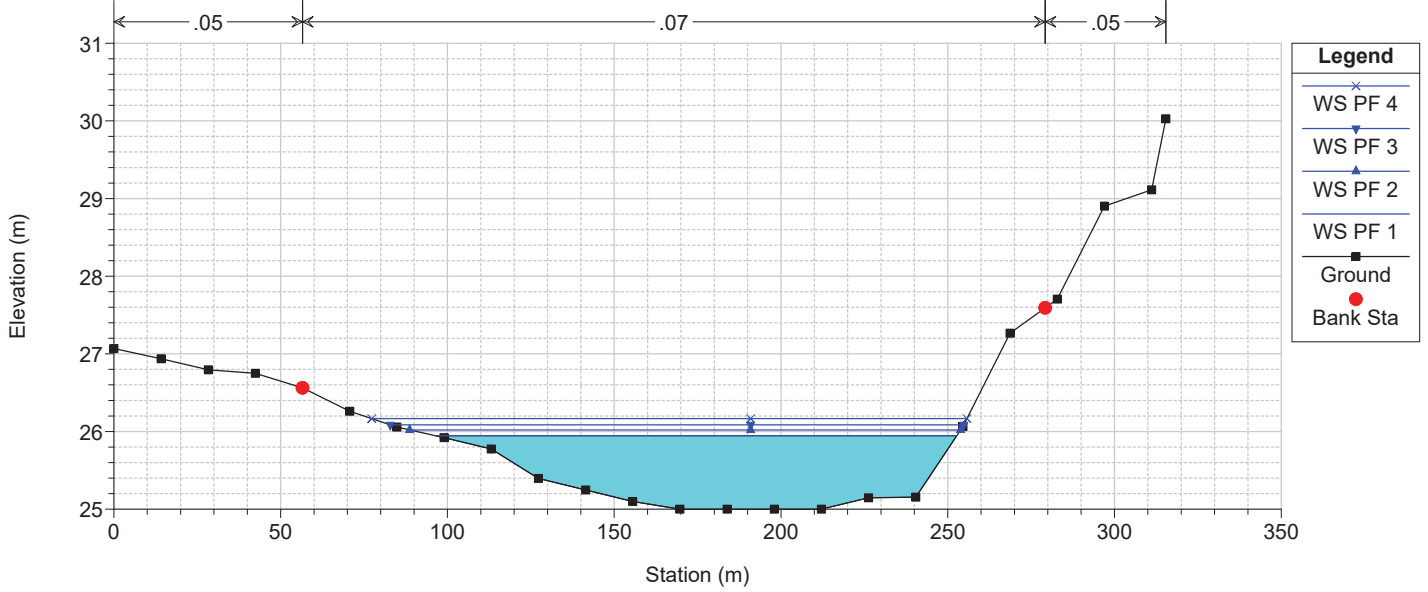
River = Rio Calvia Reach = monte RS = 1997.22 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

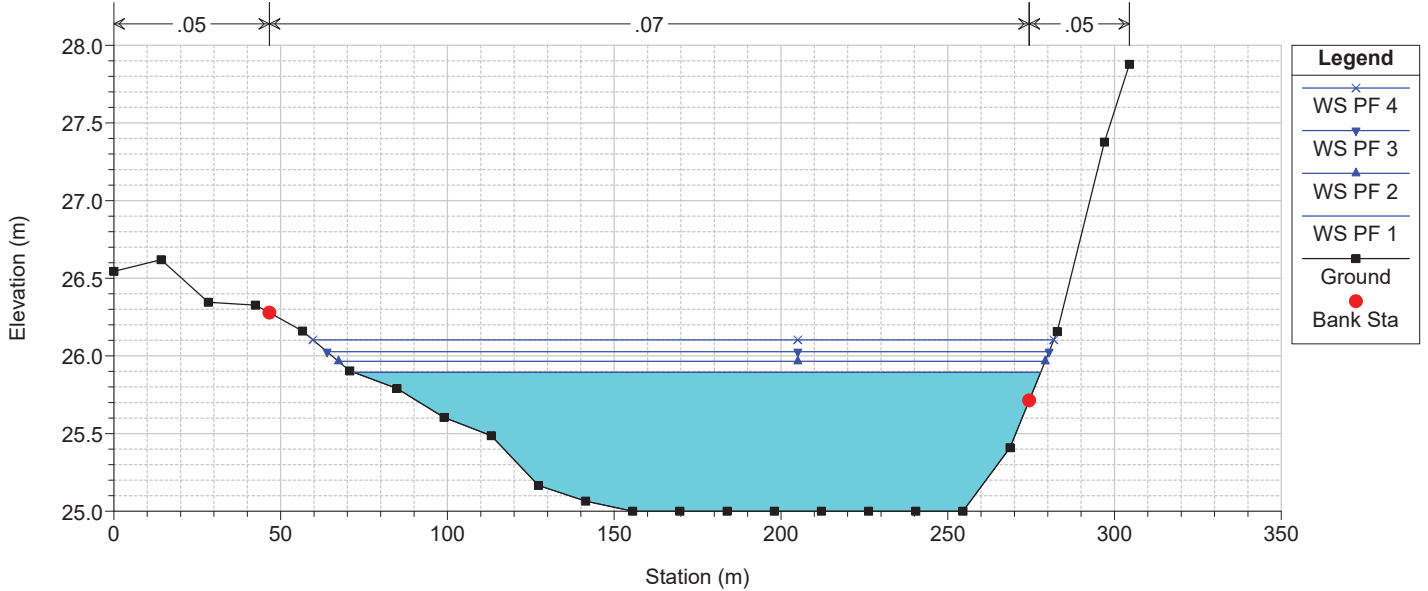
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calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

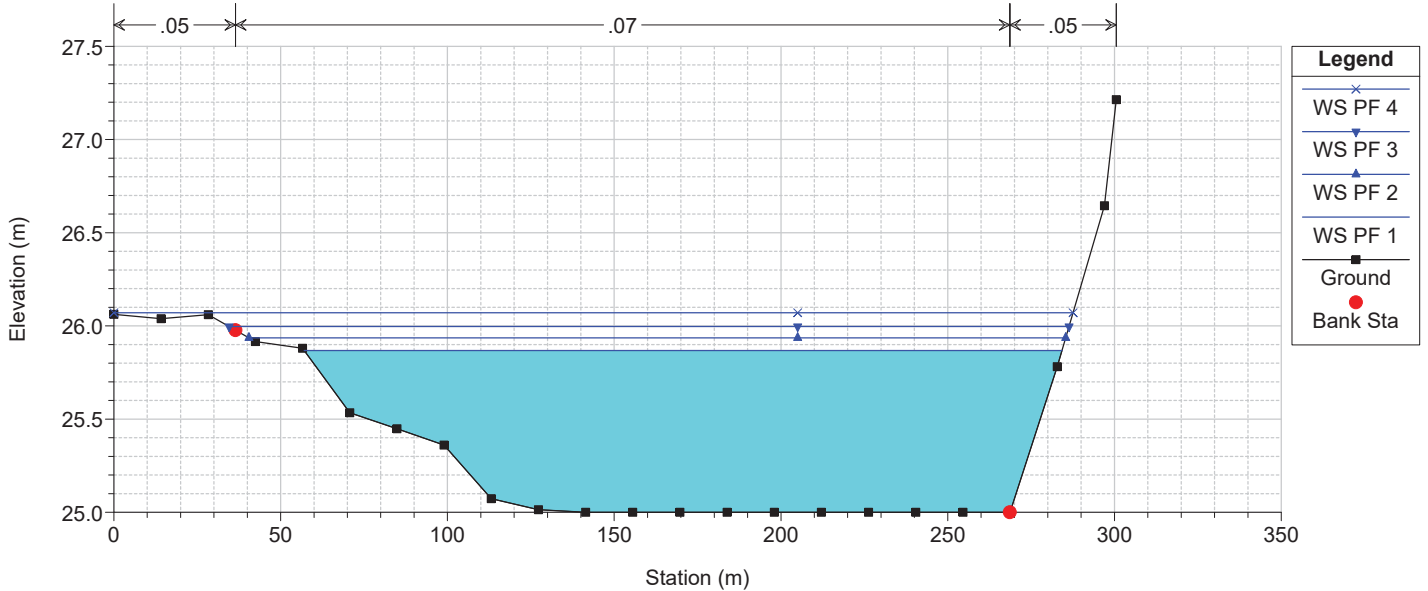
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calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

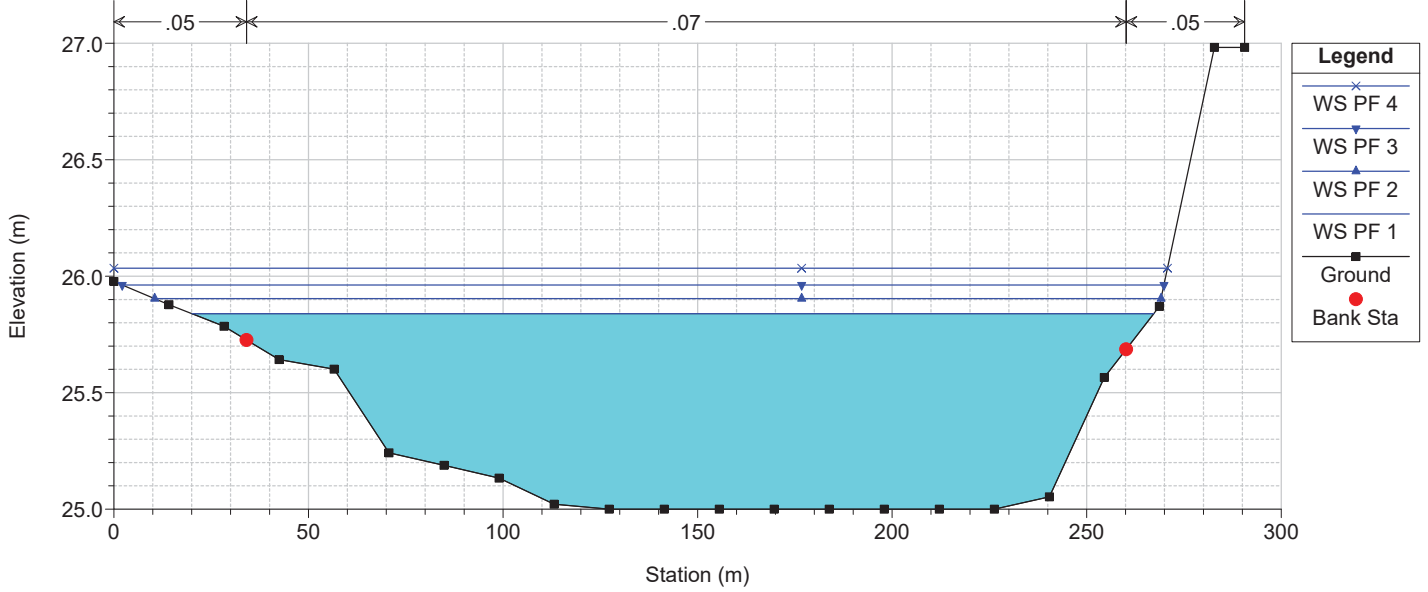
River = Rio Calvia Reach = monte RS = 1910.85 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

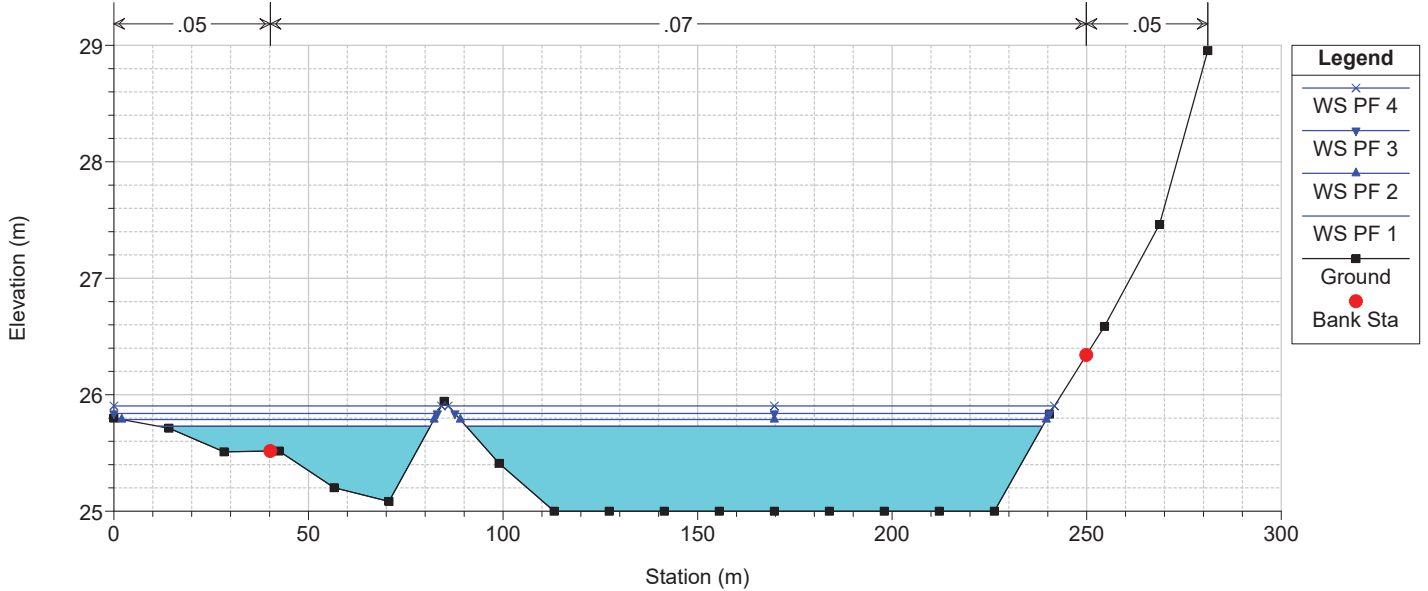
River = Rio Calvia Reach = monte RS = 1892.44 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

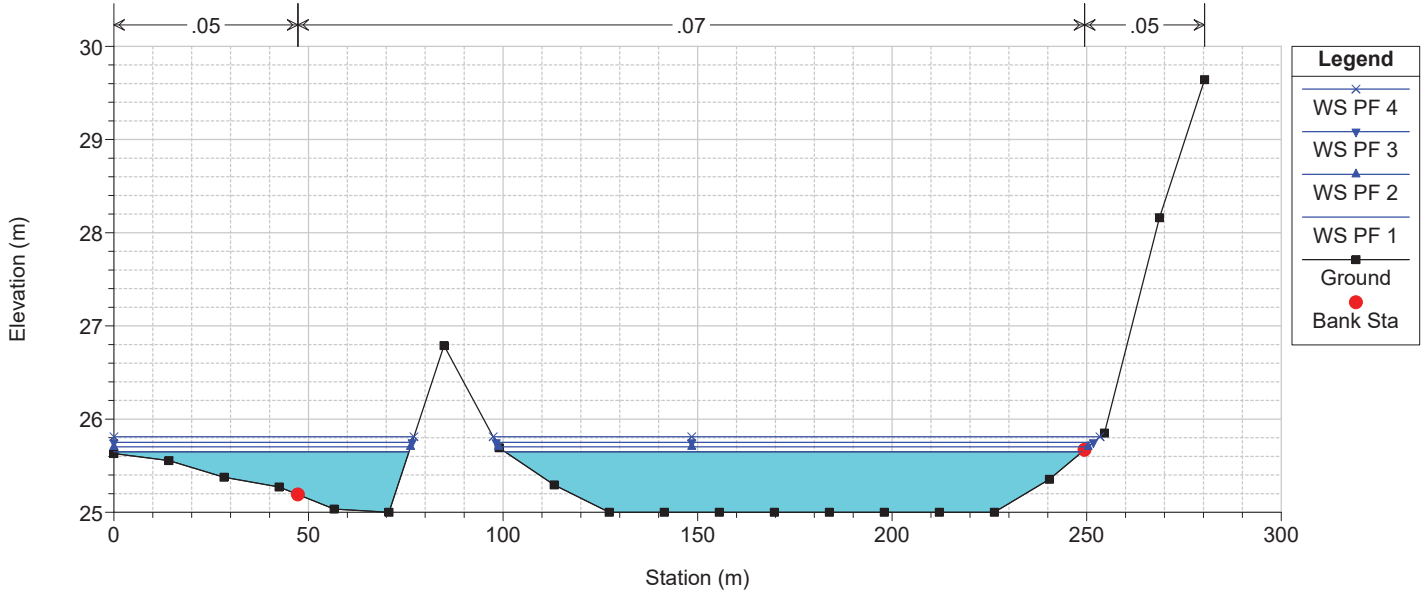
River = Rio Calvia Reach = monte RS = 1848.70 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

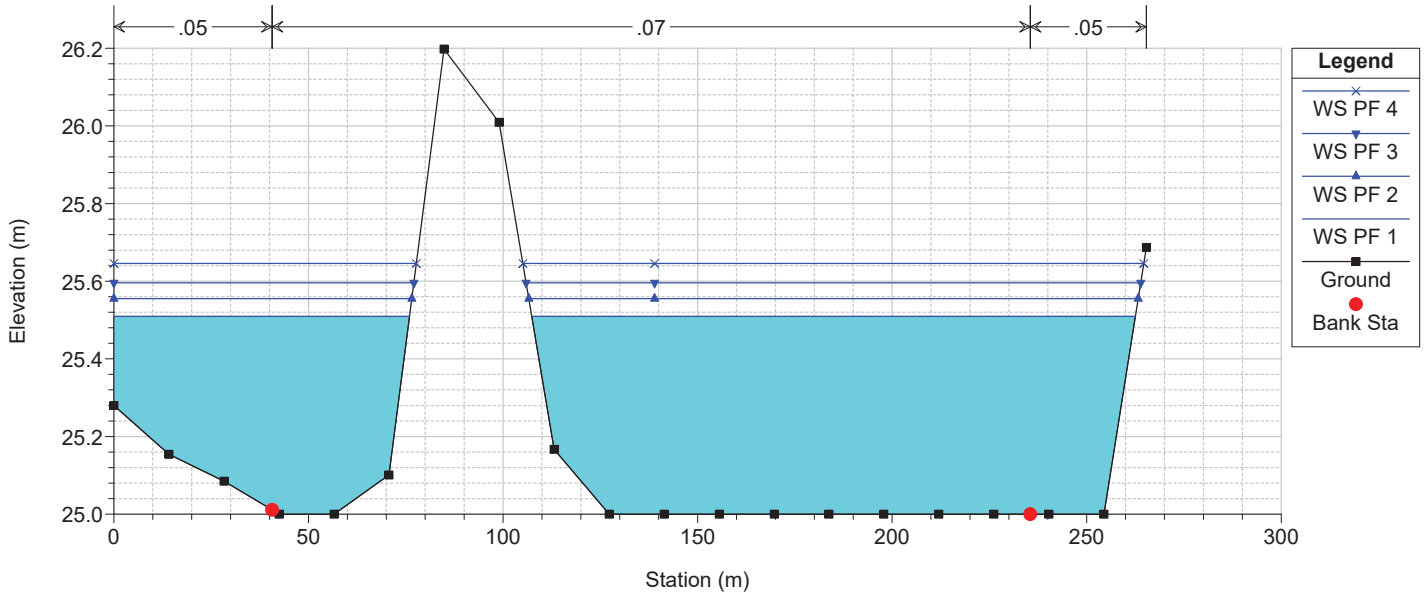
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calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

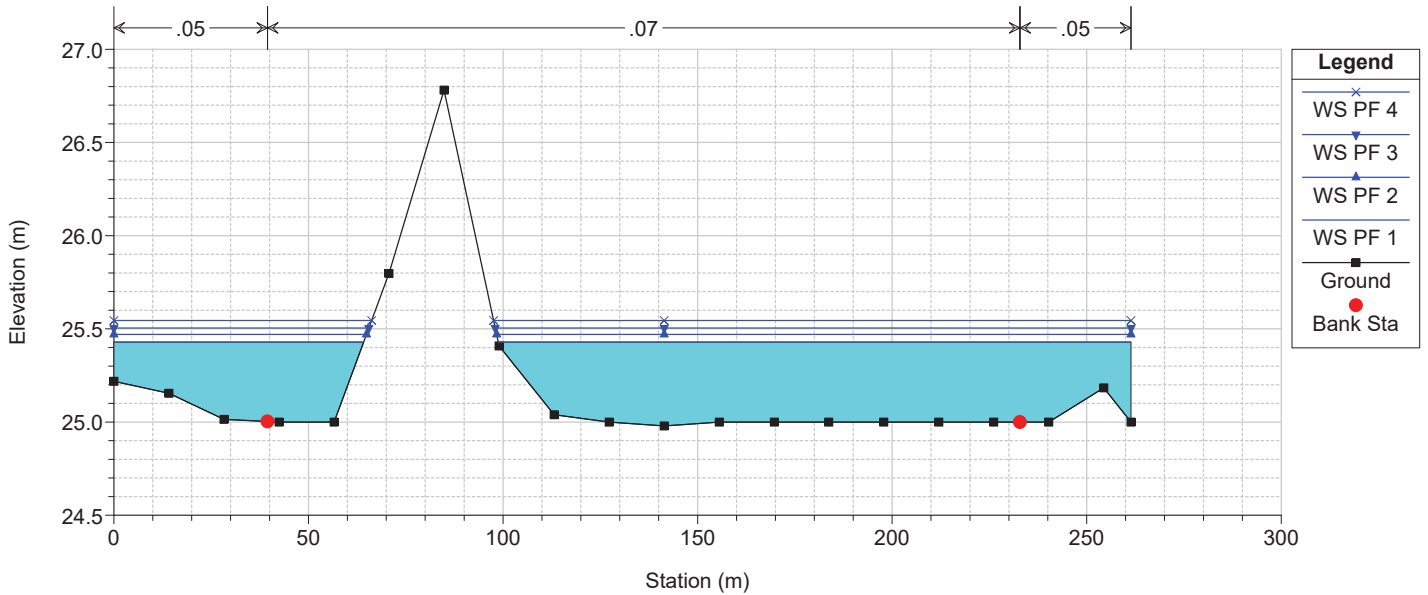
River = Rio Calvia Reach = monte RS = 1800.95 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

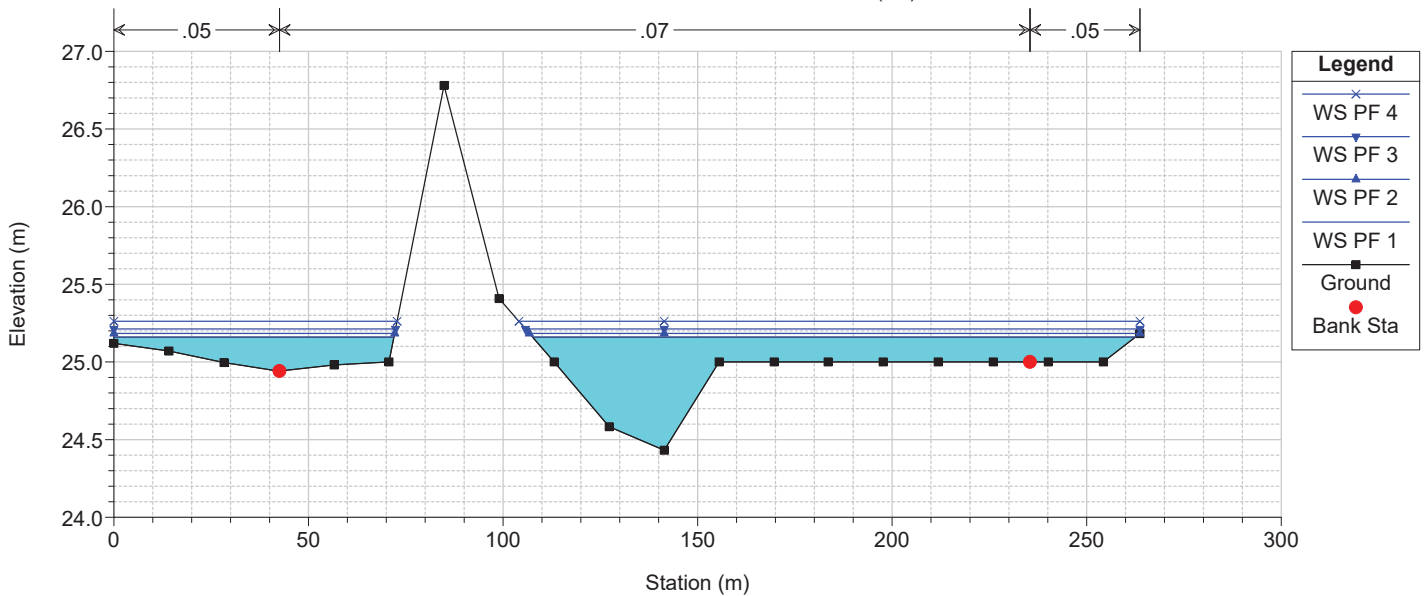
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calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

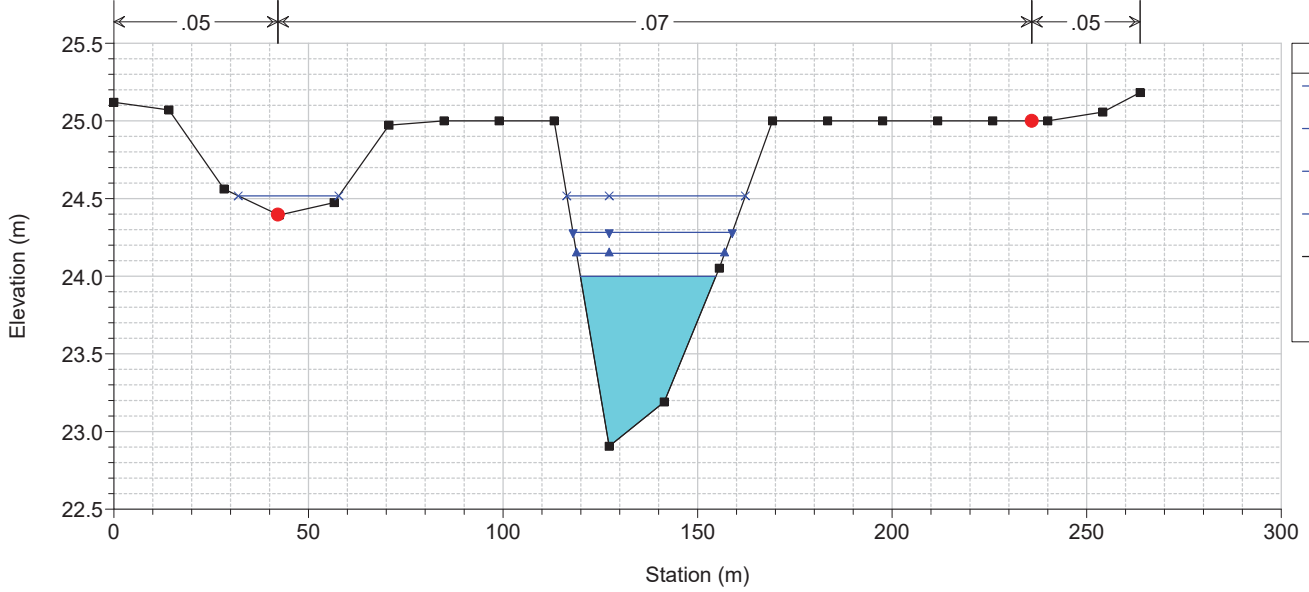
River = Rio Calvia Reach = monte RS = 1779.36 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

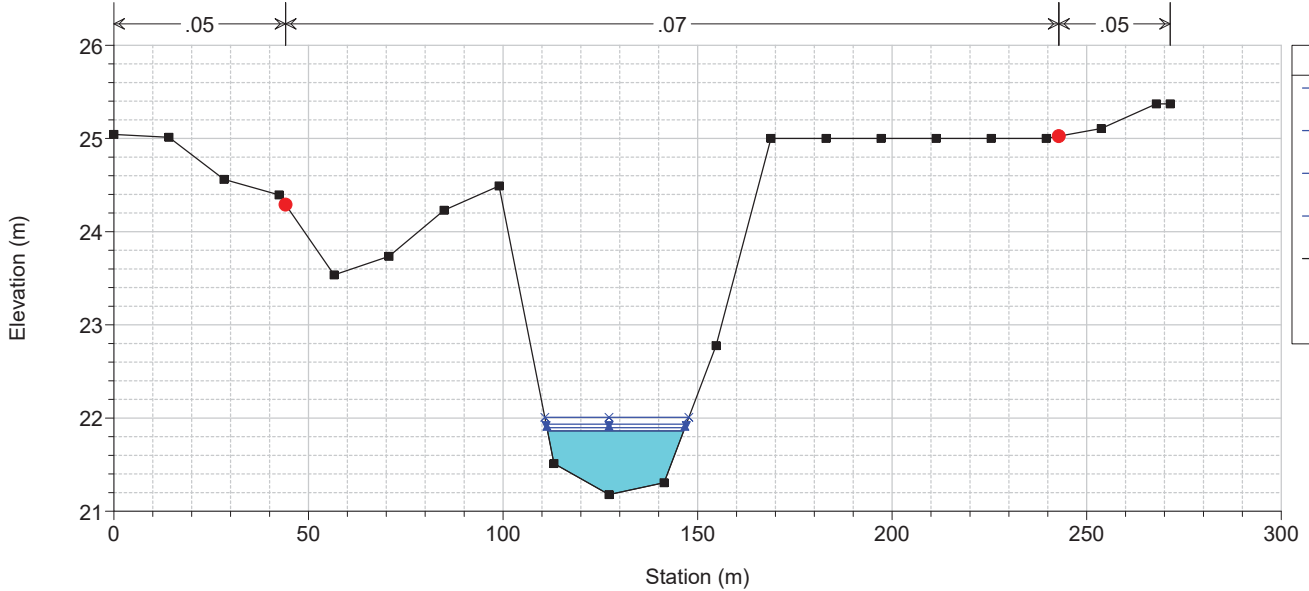
River = Rio Calvia Reach = monte RS = 1768.51 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

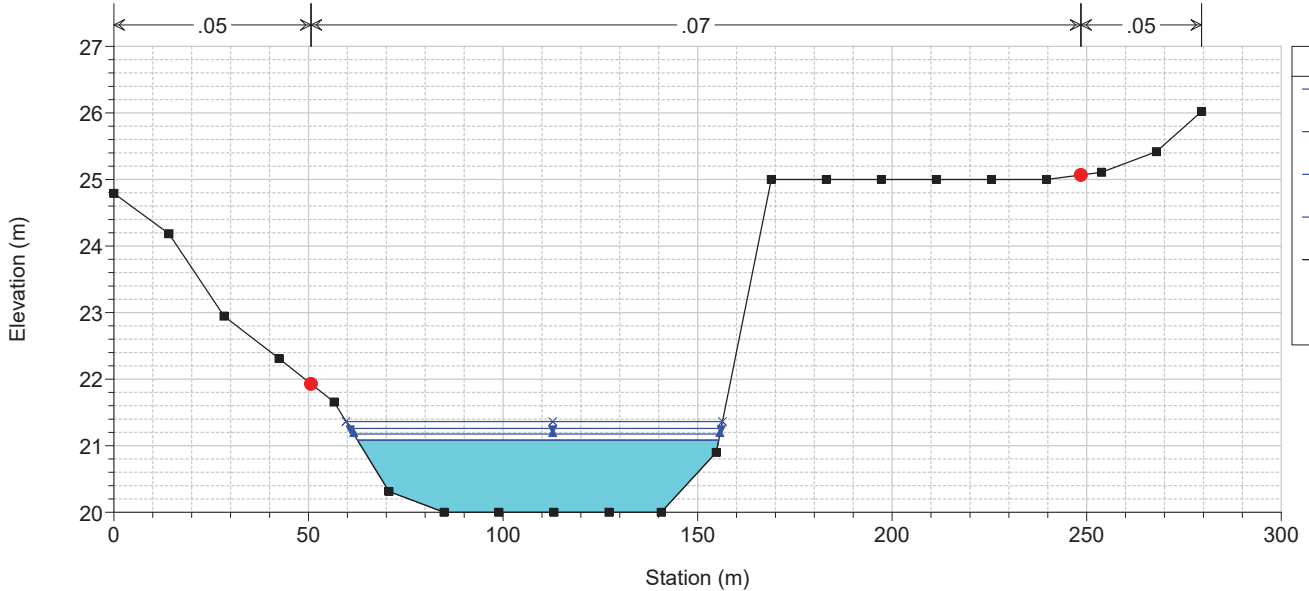
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calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

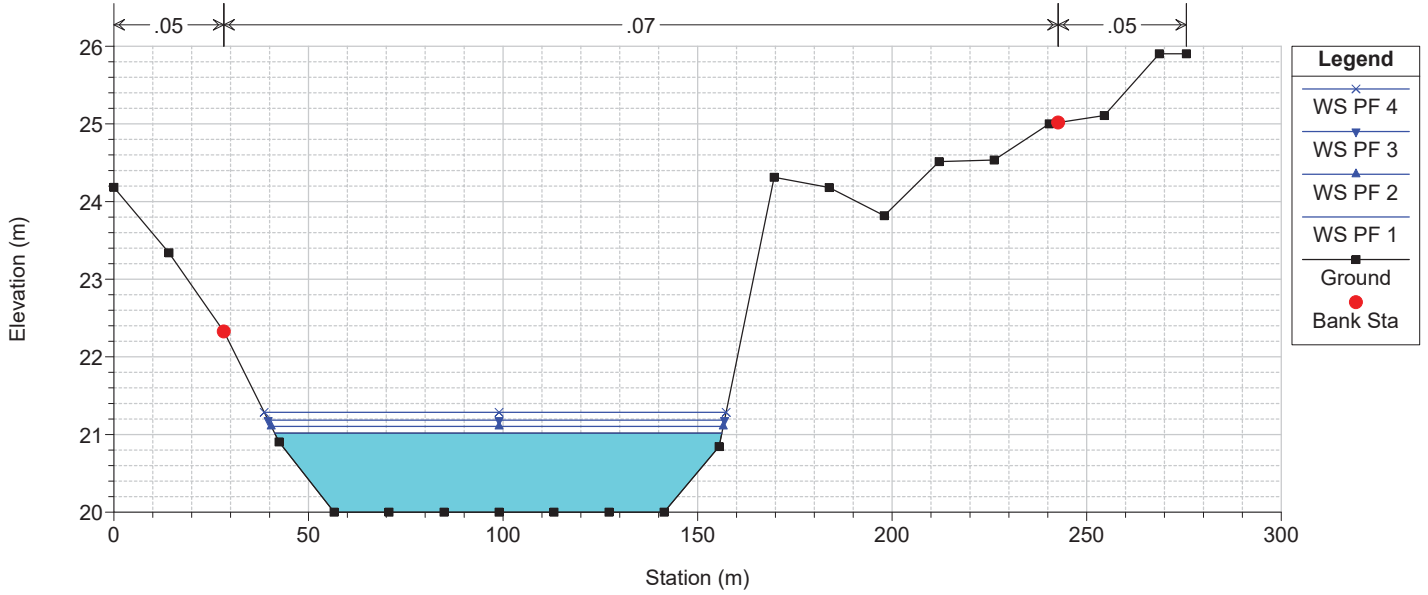
River = Rio Calvia Reach = monte RS = 1731.45 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

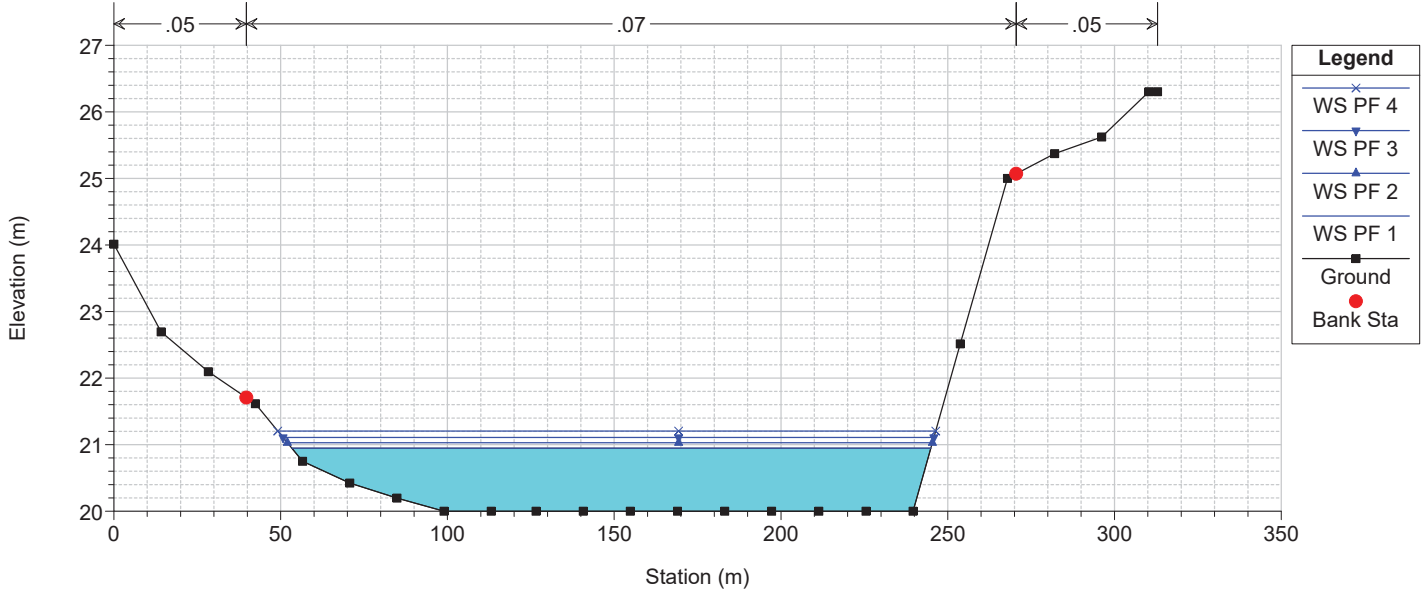
River = Rio Calvia Reach = monte RS = 1707.19 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

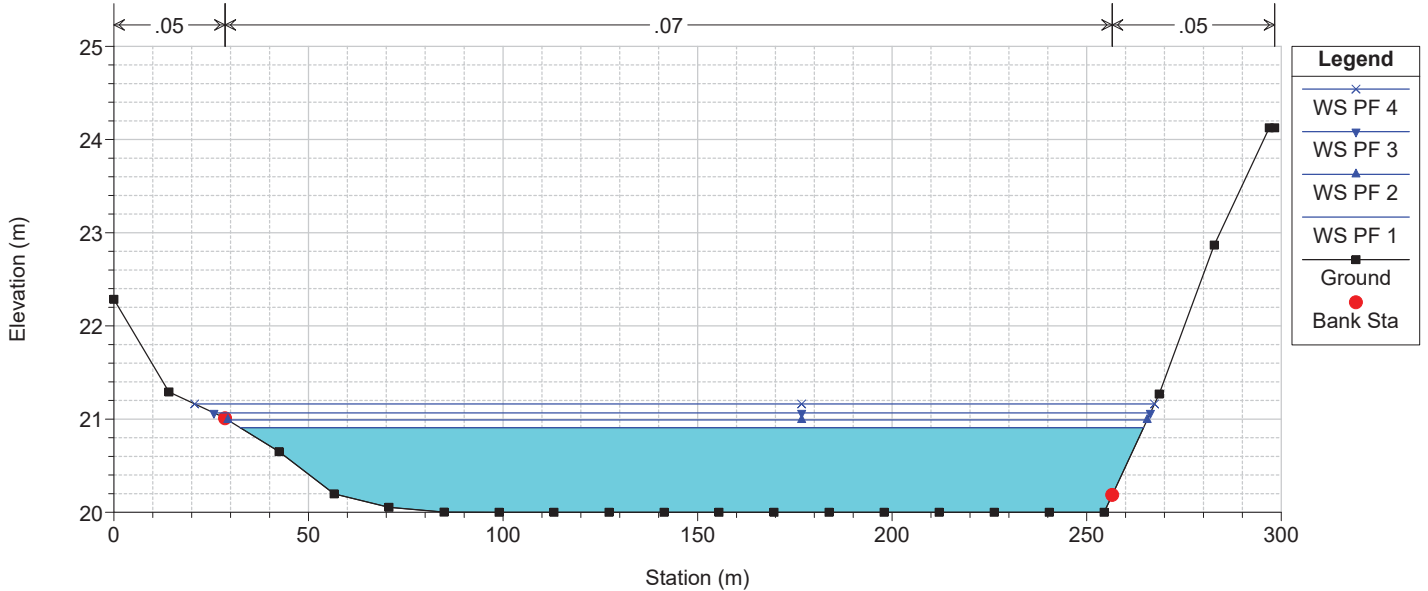
River = Rio Calvia Reach = monte RS = 1658.16 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

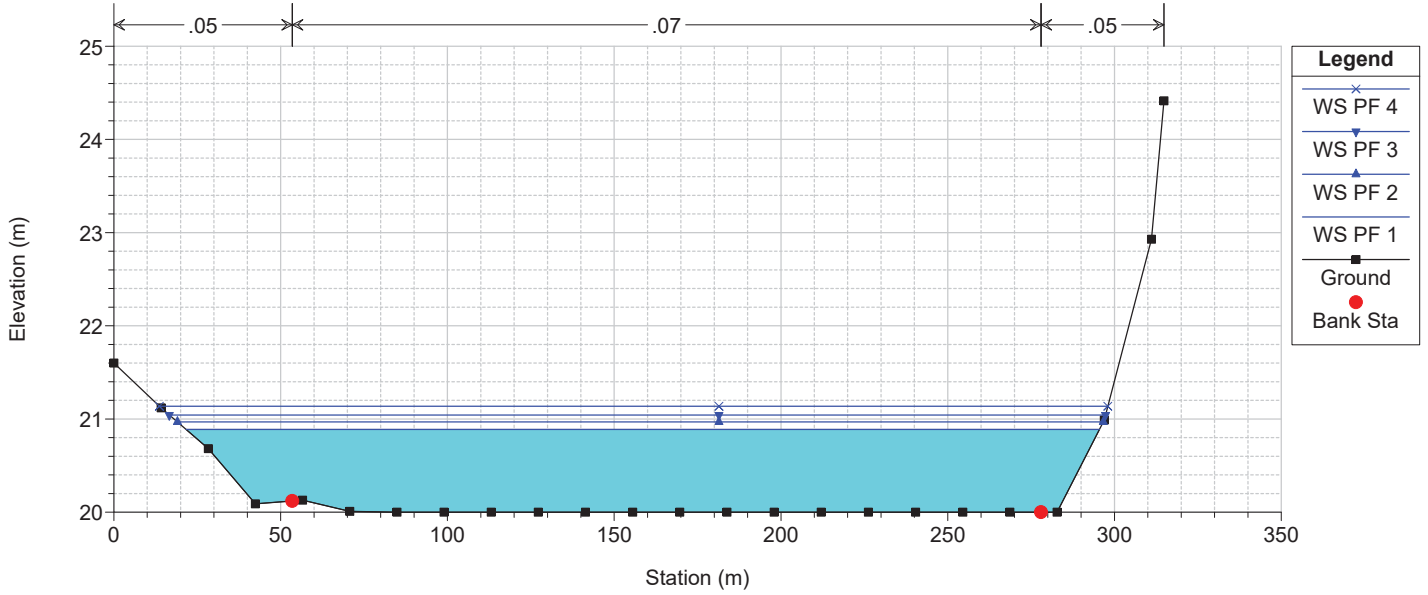
River = Rio Calvia Reach = monte RS = 1617.88 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

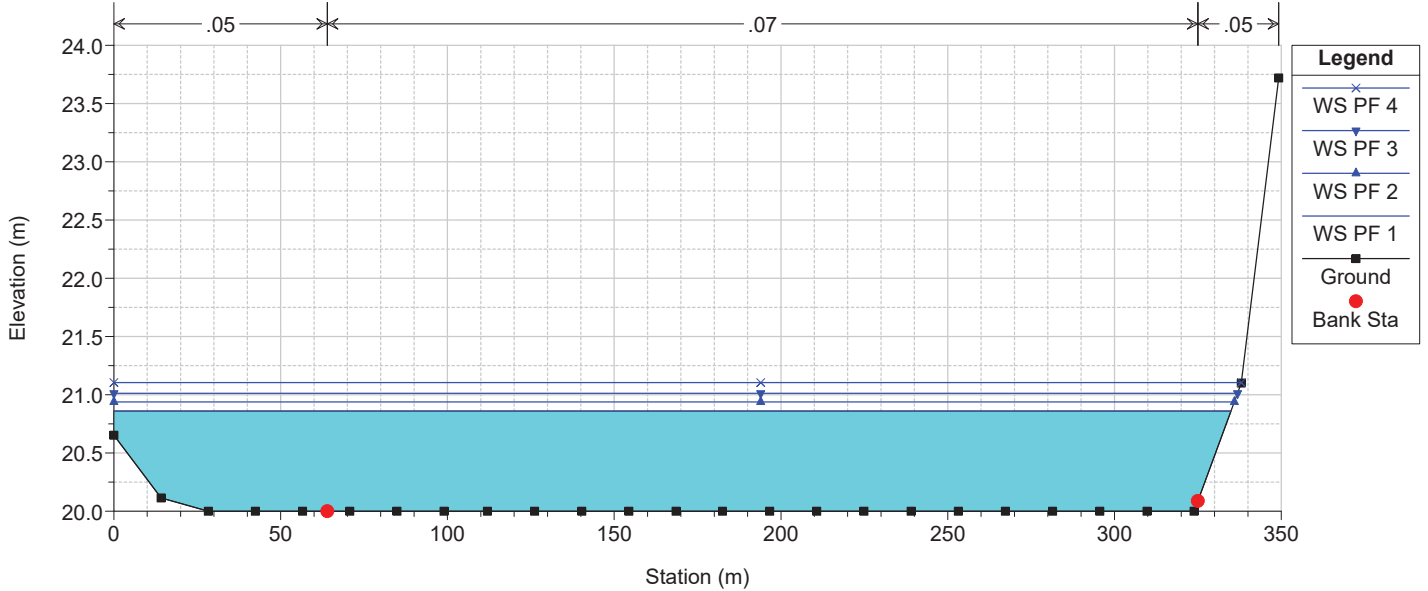
River = Rio Calvia Reach = monte RS = 1584.01 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

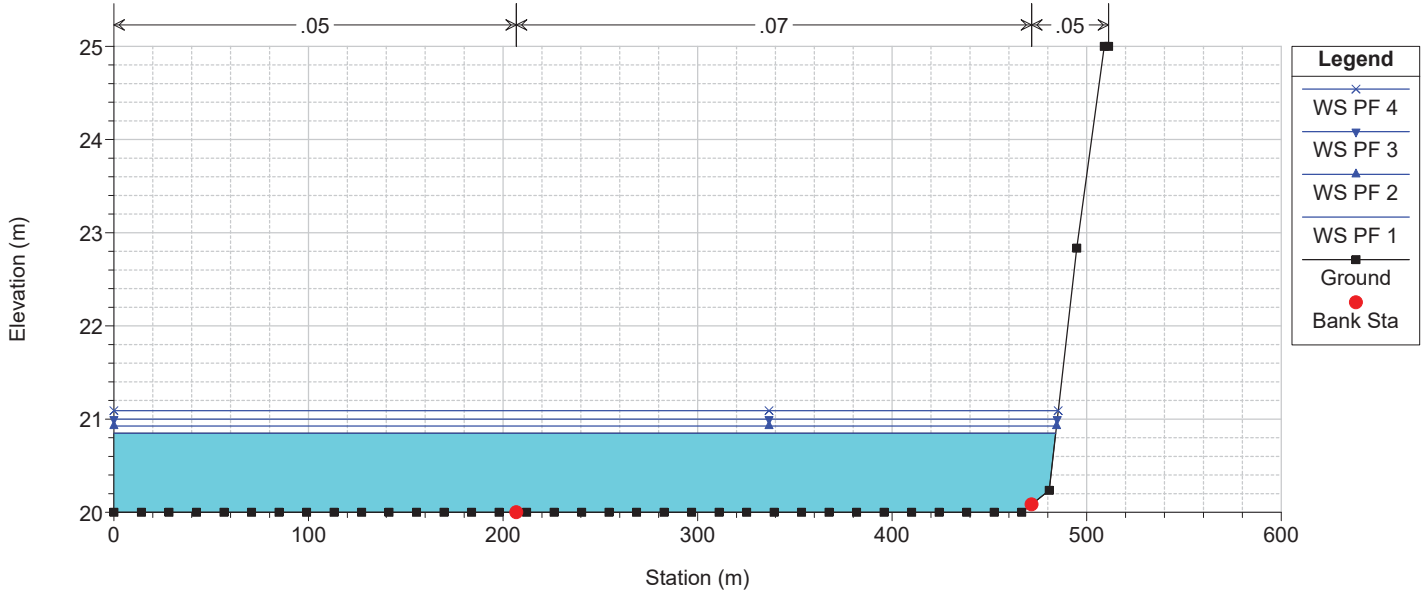
River = Rio Calvia Reach = monte RS = 1508.94 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

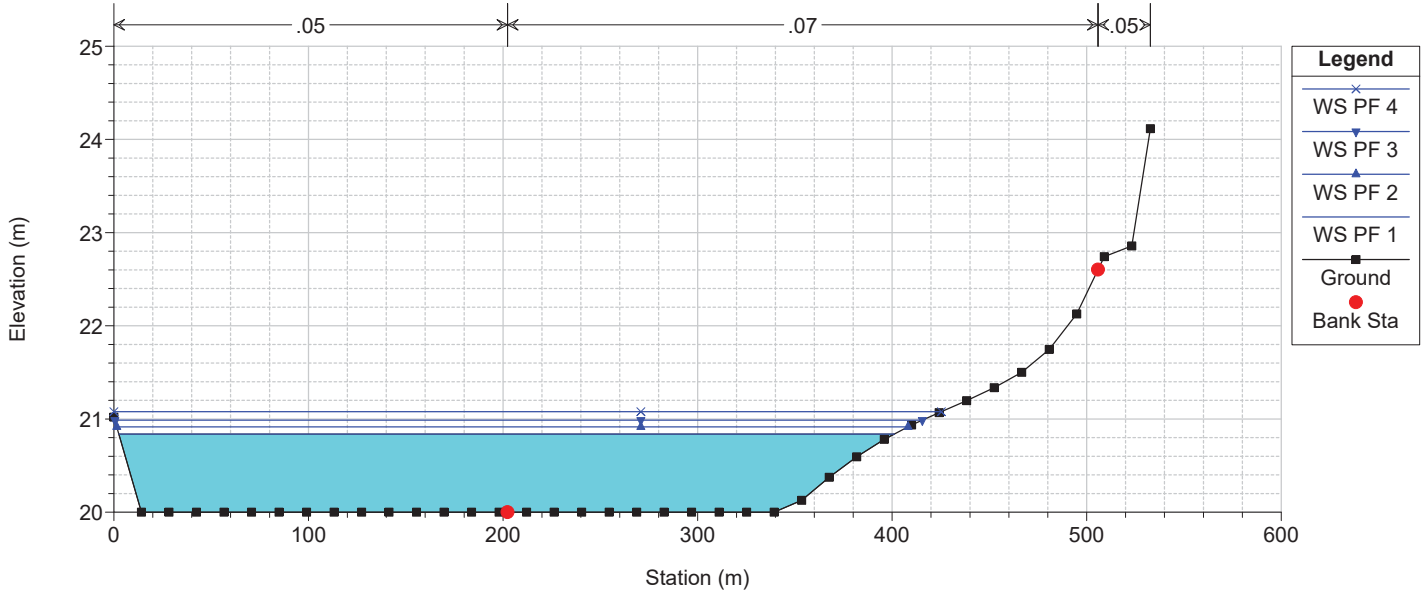
River = Rio Calvia Reach = monte RS = 1456.51 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

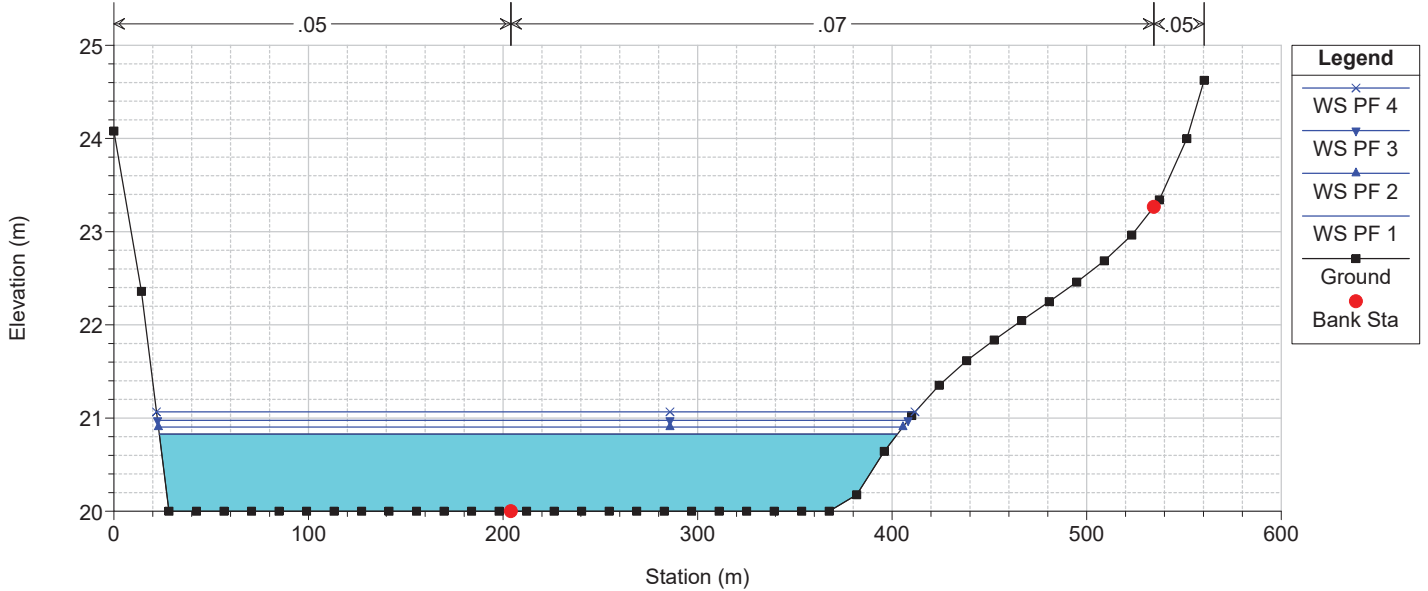
River = Rio Calvia Reach = monte RS = 1411.66 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

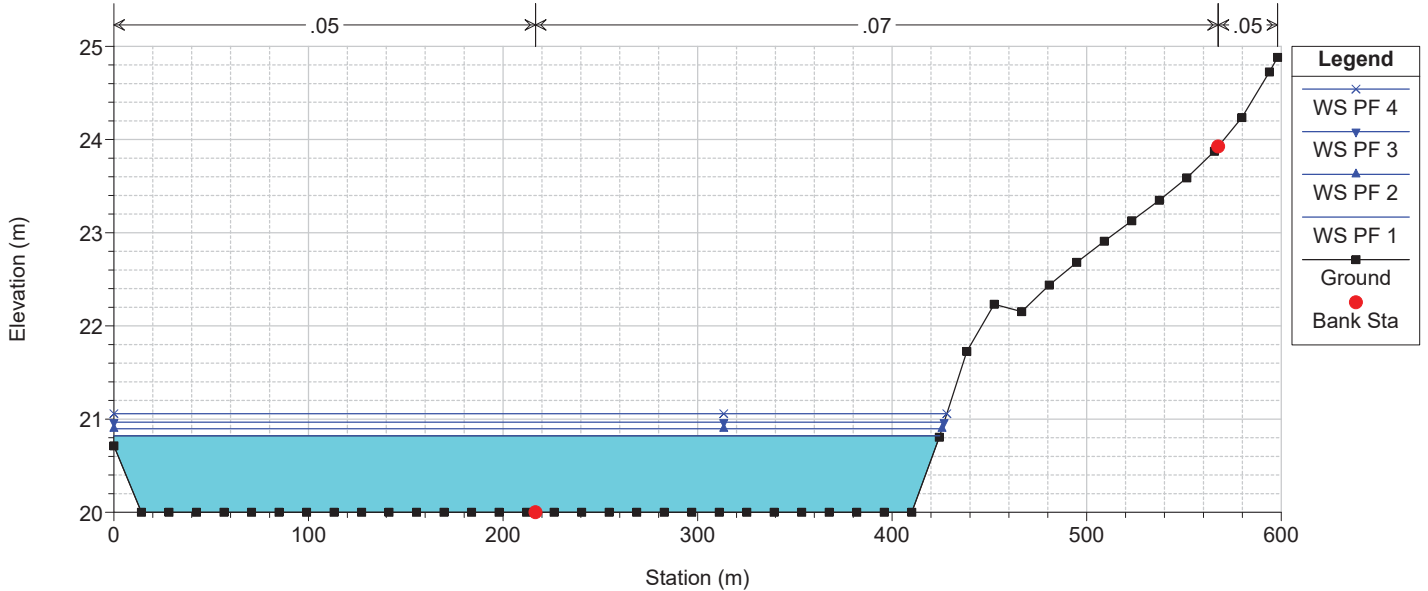
River = Rio Calvia Reach = monte RS = 1380.85 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

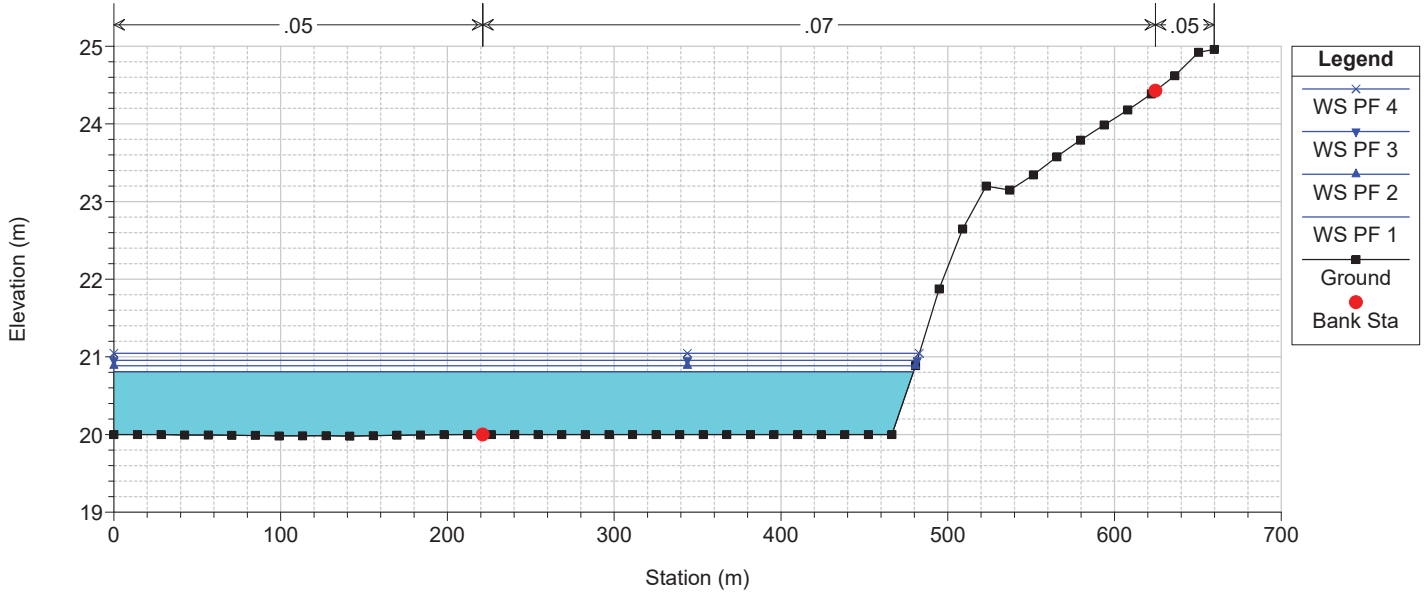
River = Rio Calvia Reach = monte RS = 1349.85 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

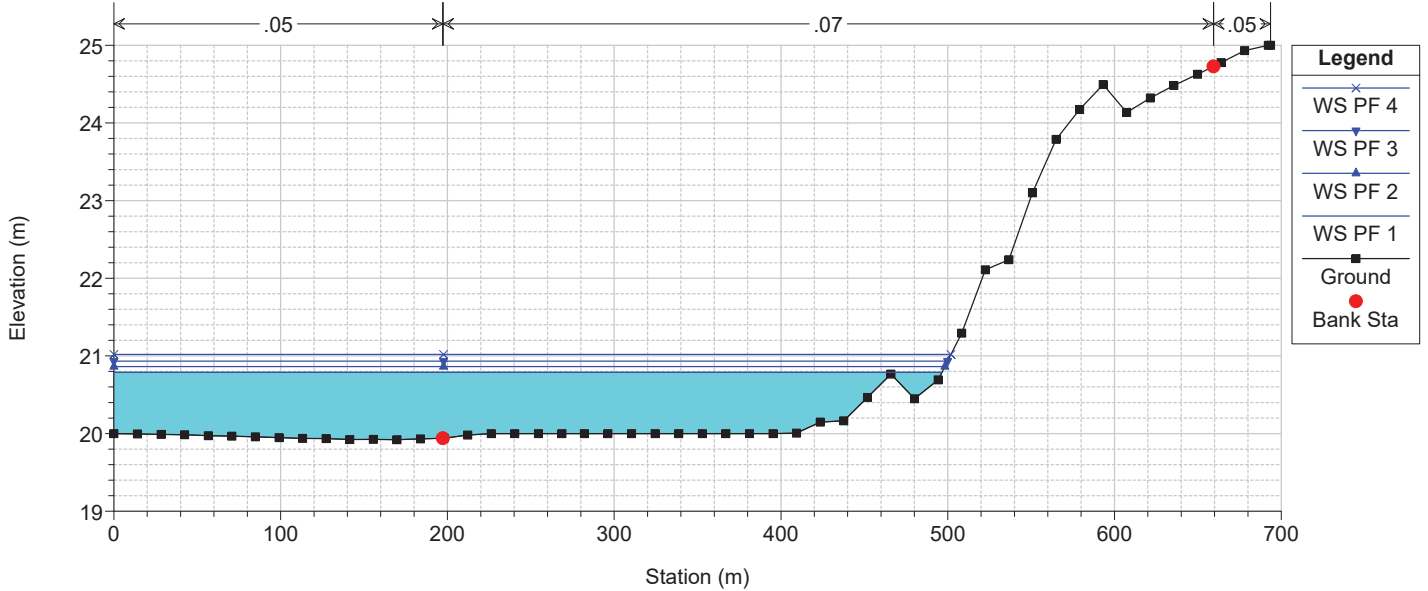
River = Rio Calvia Reach = monte RS = 1323.82 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

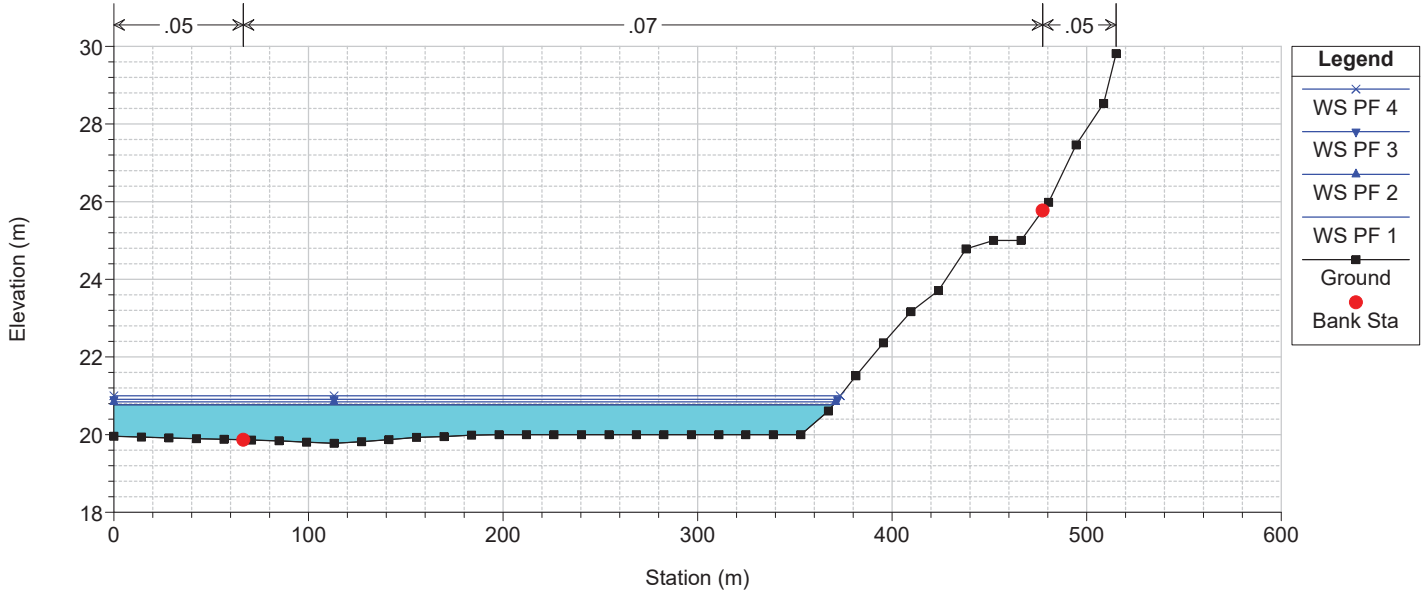
River = Rio Calvia Reach = monte RS = 1137.58 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

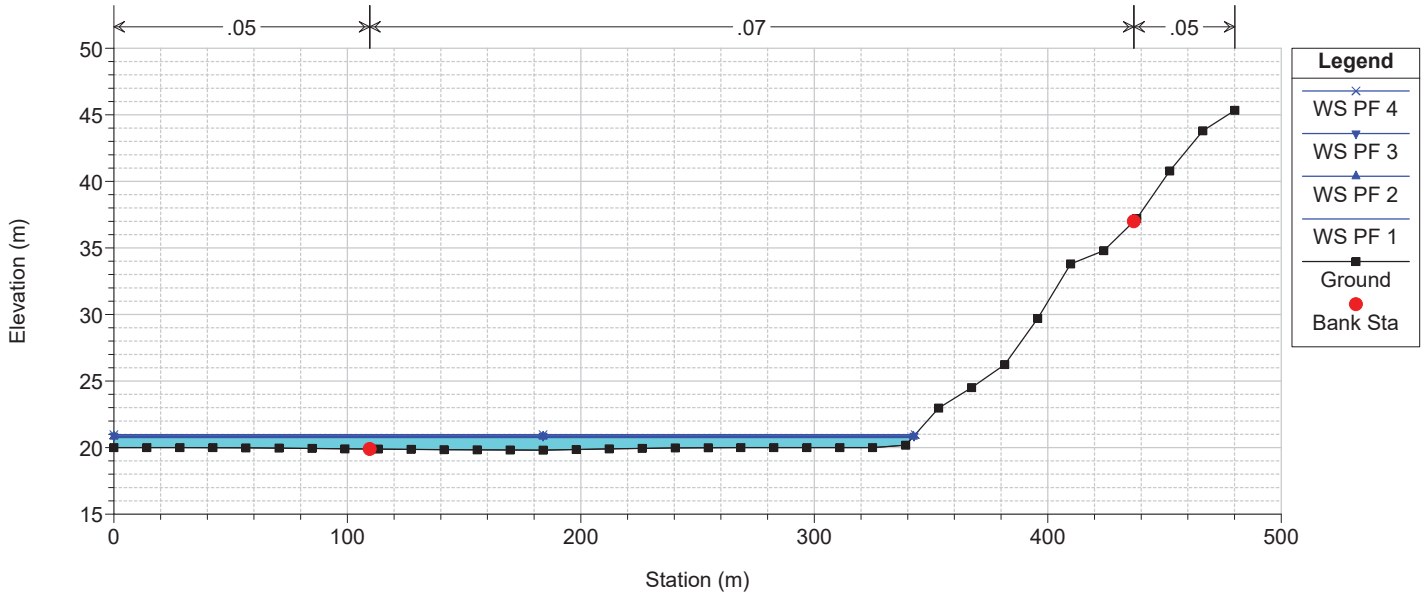
River = Rio Calvia Reach = monte RS = 1083.70 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

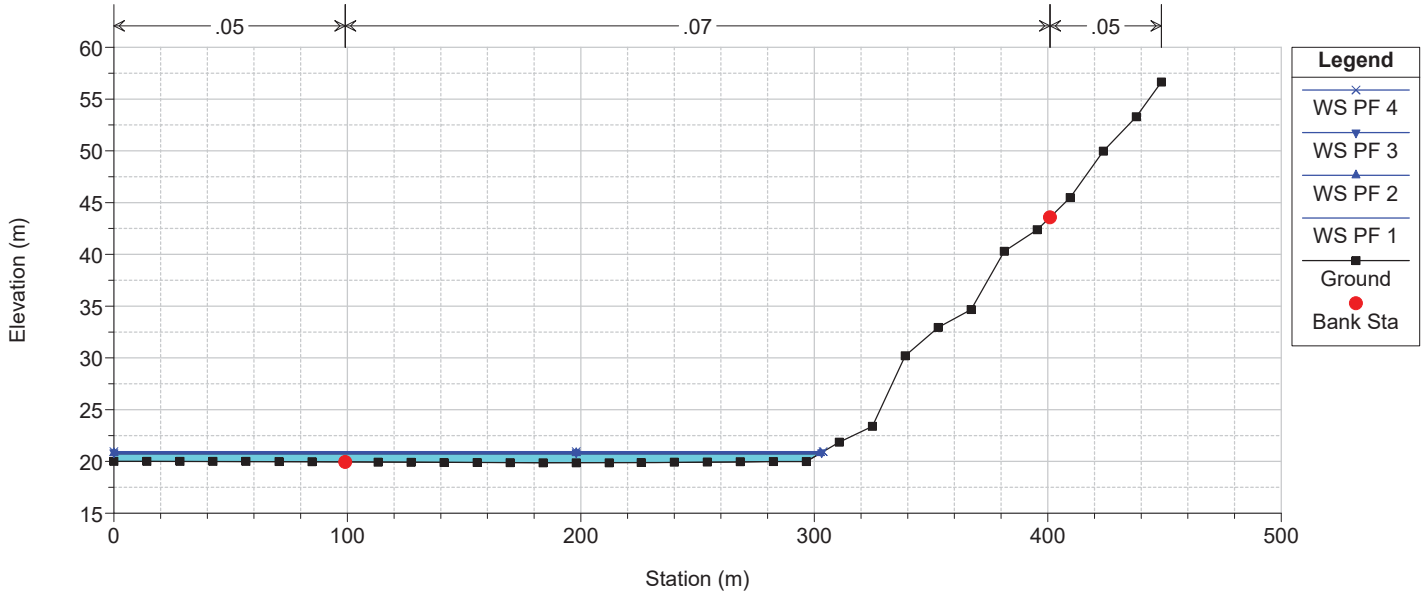
River = Rio Calvia Reach = monte RS = 1018.07 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

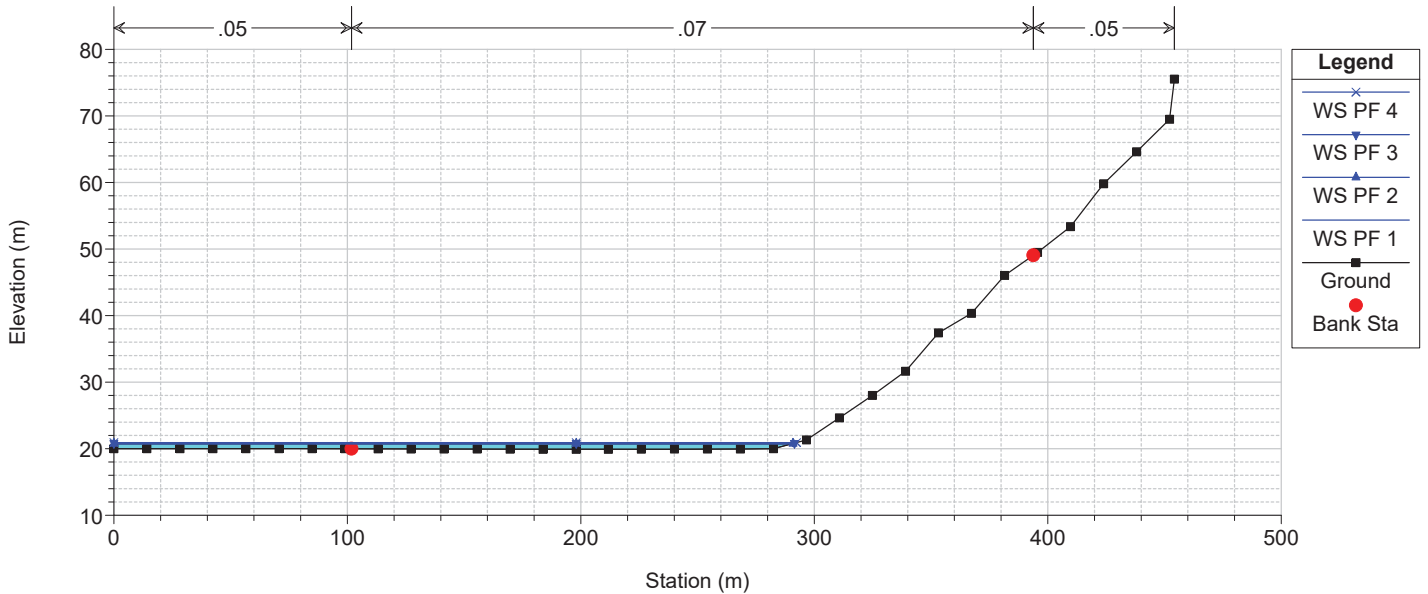
River = Rio Calvia Reach = monte RS = 963.98 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

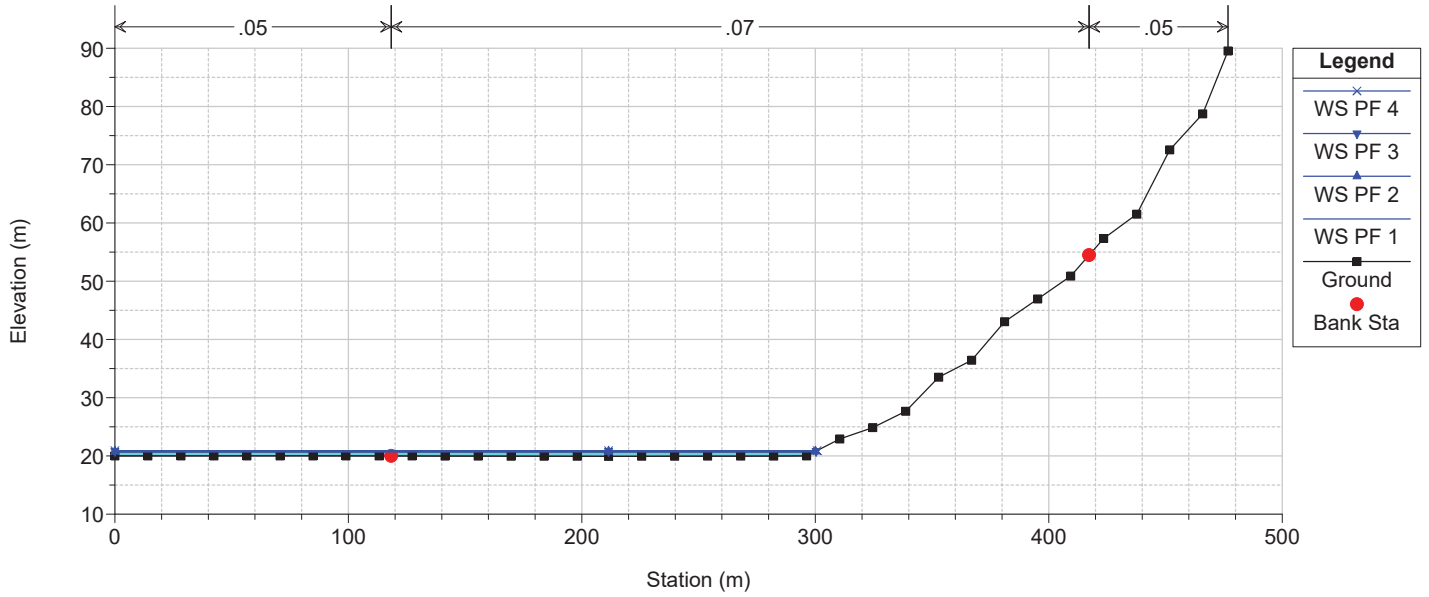
River = Rio Calvia Reach = monte RS = 915.58 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

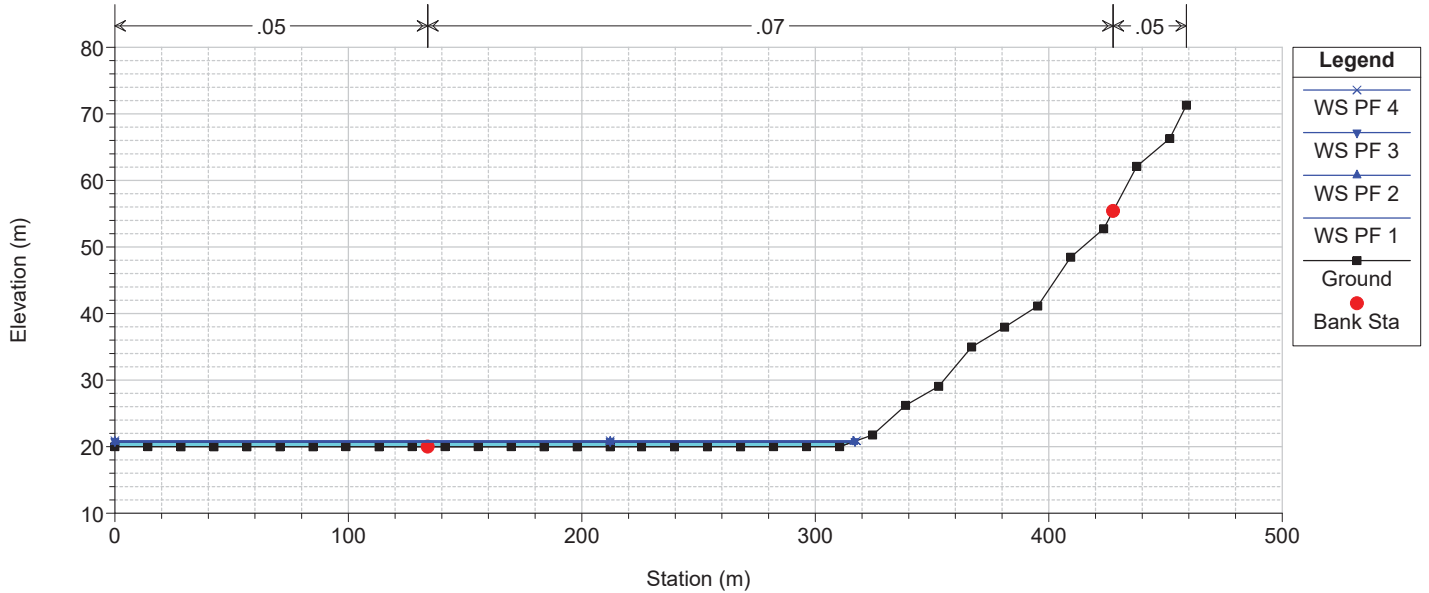
River = Rio Calvia Reach = monte RS = 889.79 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

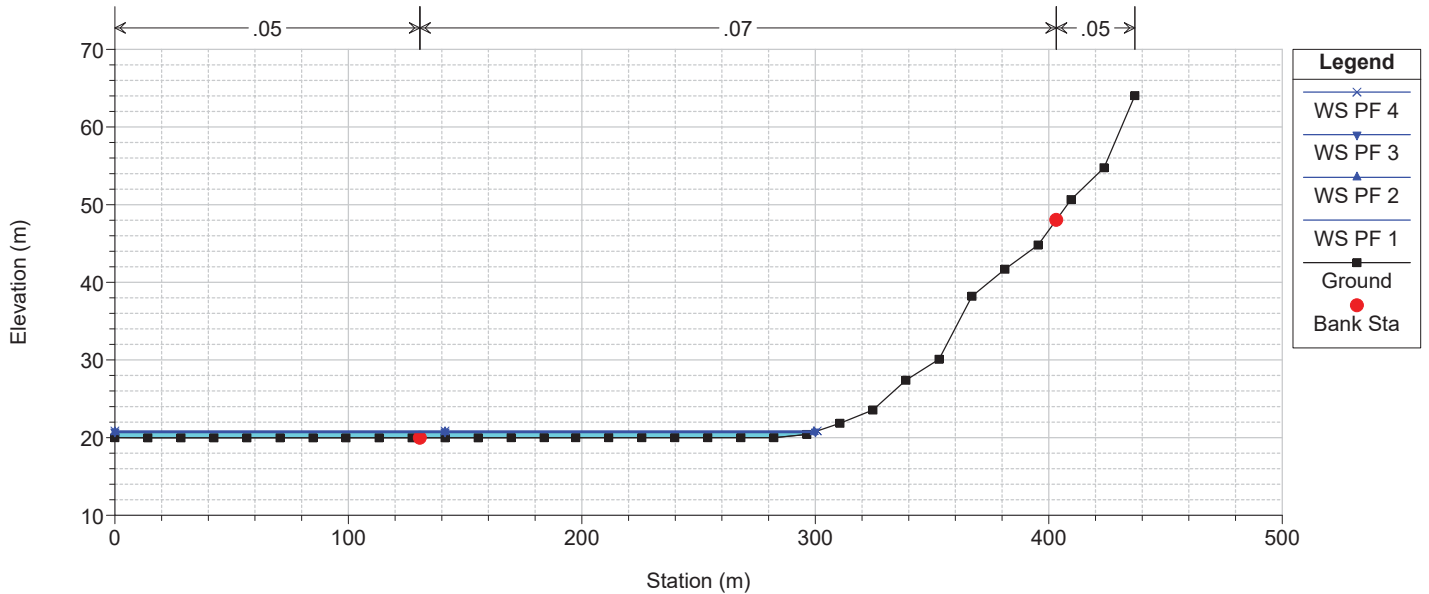
River = Rio Calvia Reach = monte RS = 860.63 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

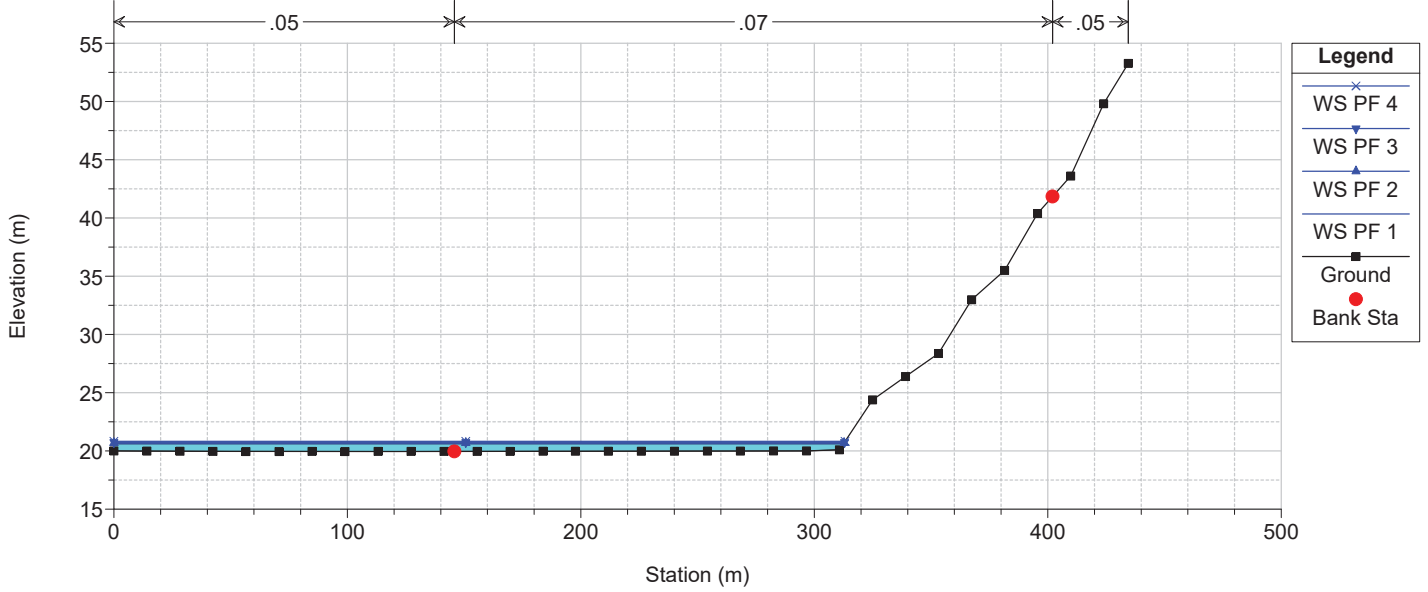
River = Rio Calvia Reach = monte RS = 811.17 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

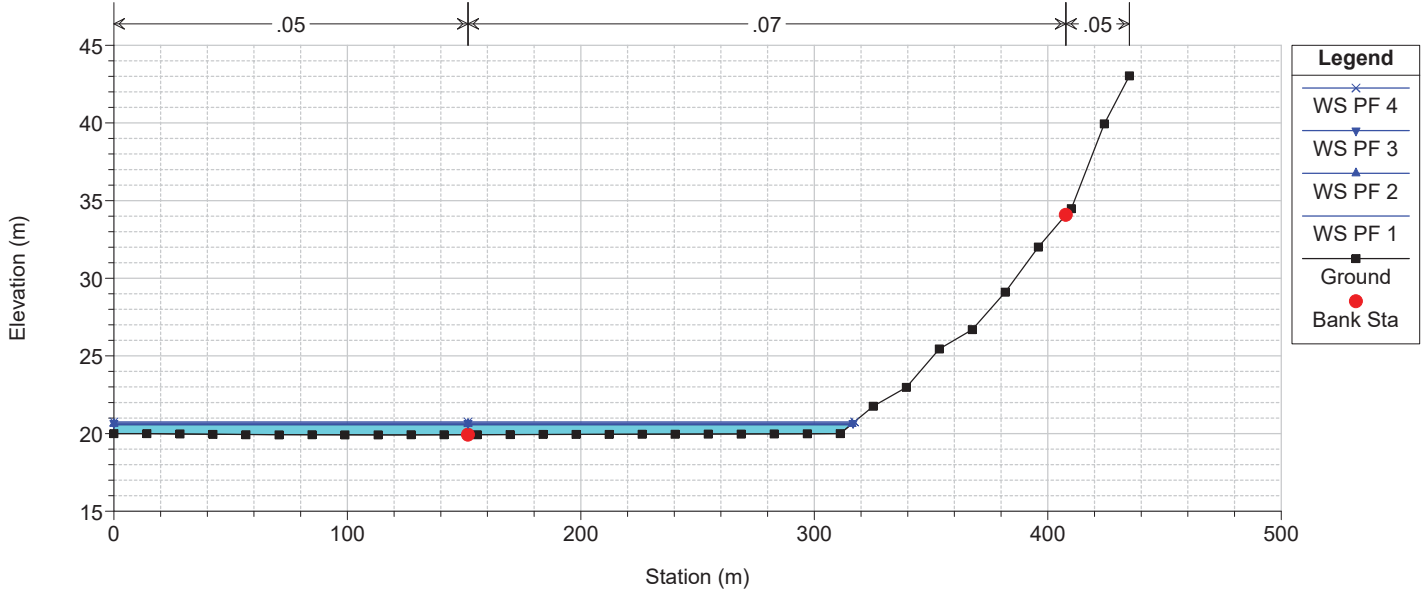
River = Rio Calvia Reach = monte RS = 766.01 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

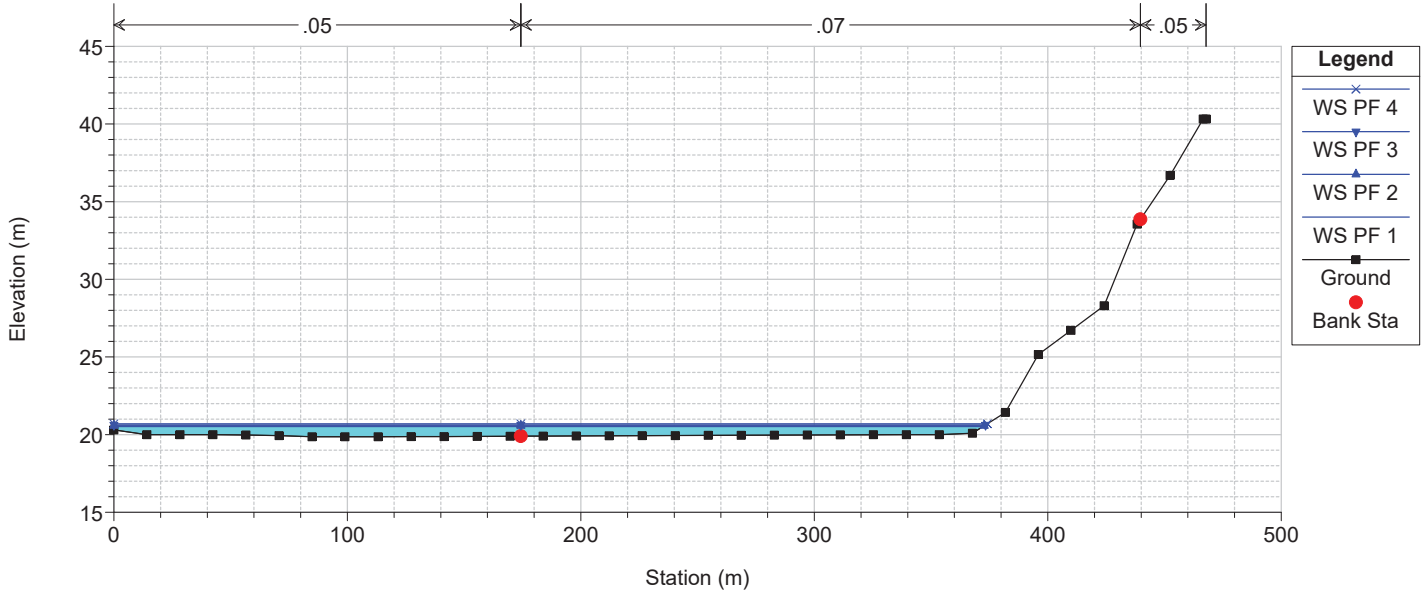
River = Rio Calvia Reach = monte RS = 692.54 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

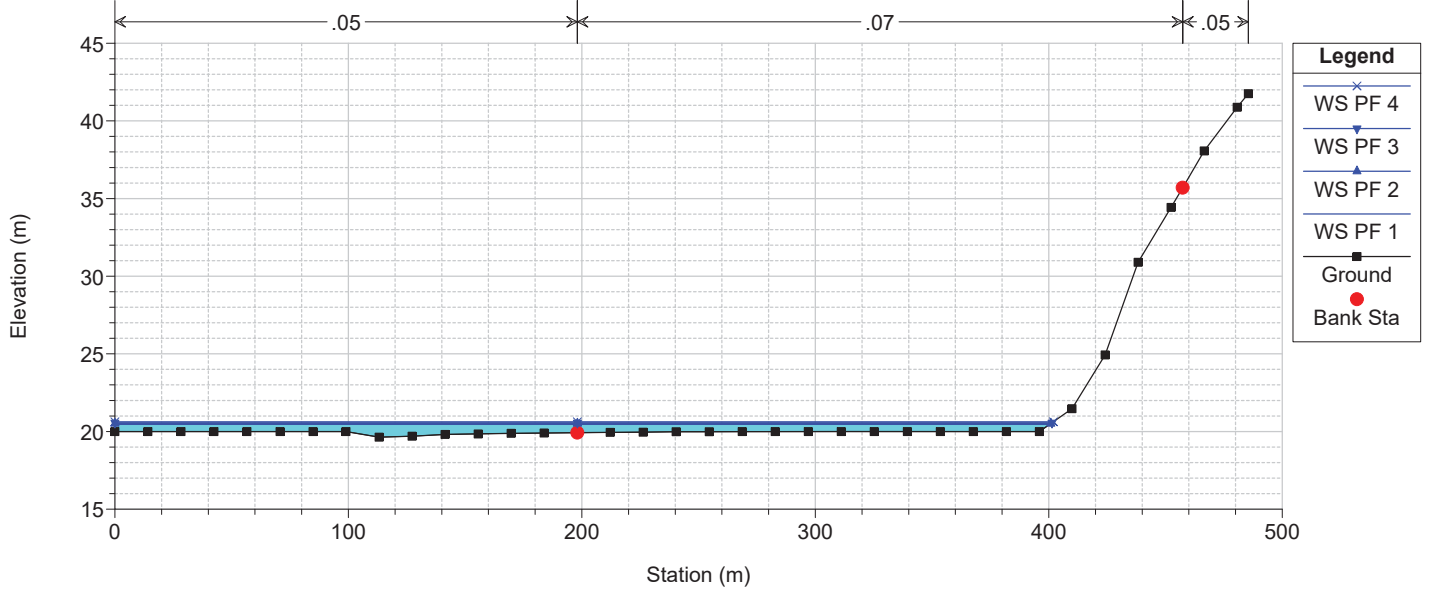
River = Rio Calvia Reach = monte RS = 635.09 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

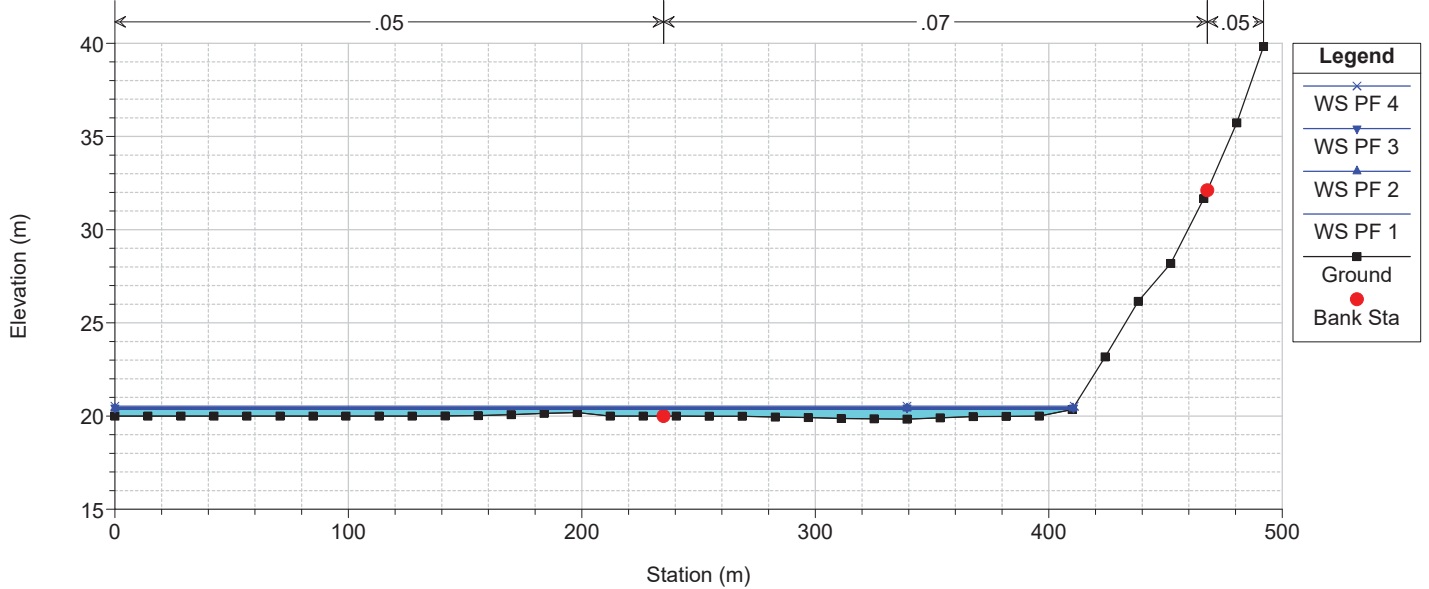
River = Rio Calvia Reach = monte RS = 572.62 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

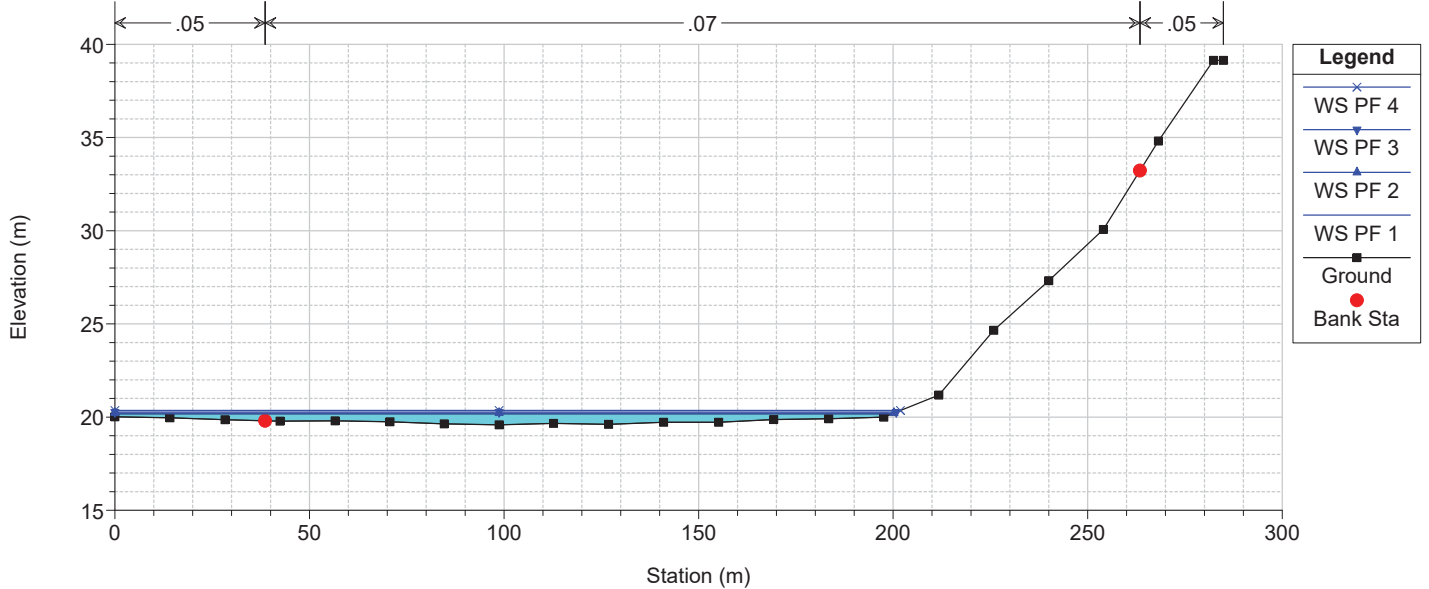
River = Rio Calvia Reach = monte RS = 513.73 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

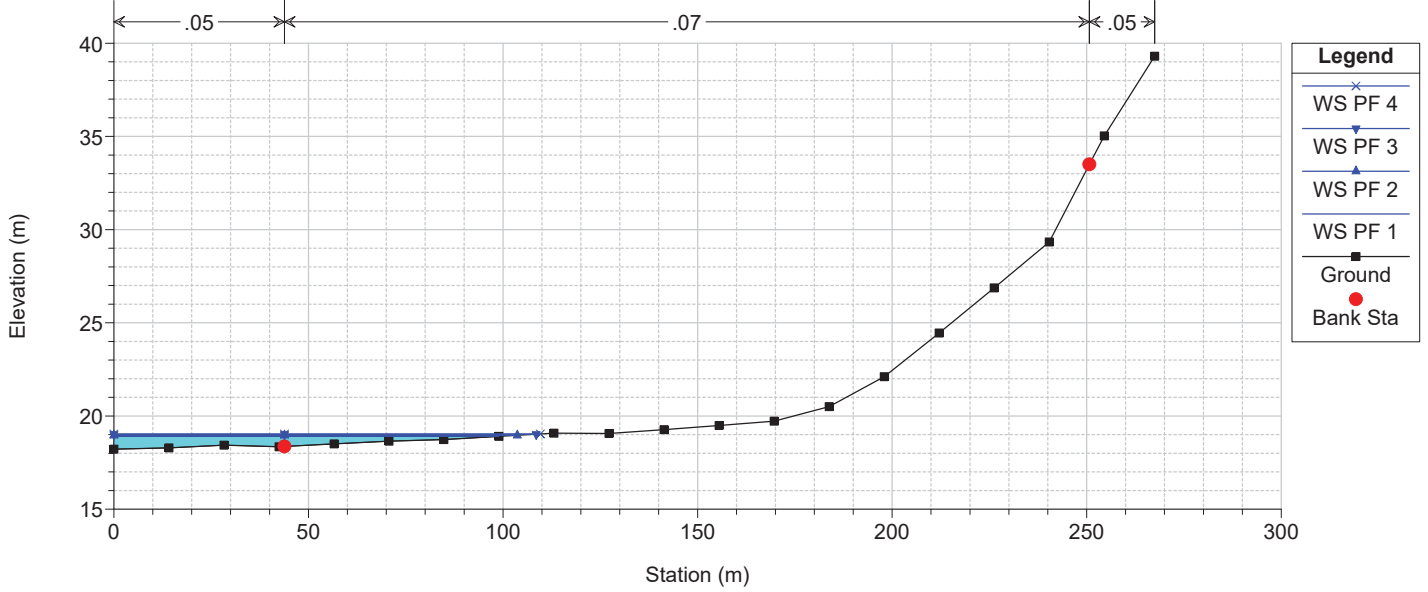
River = Rio Calvia Reach = monte RS = 488.26 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

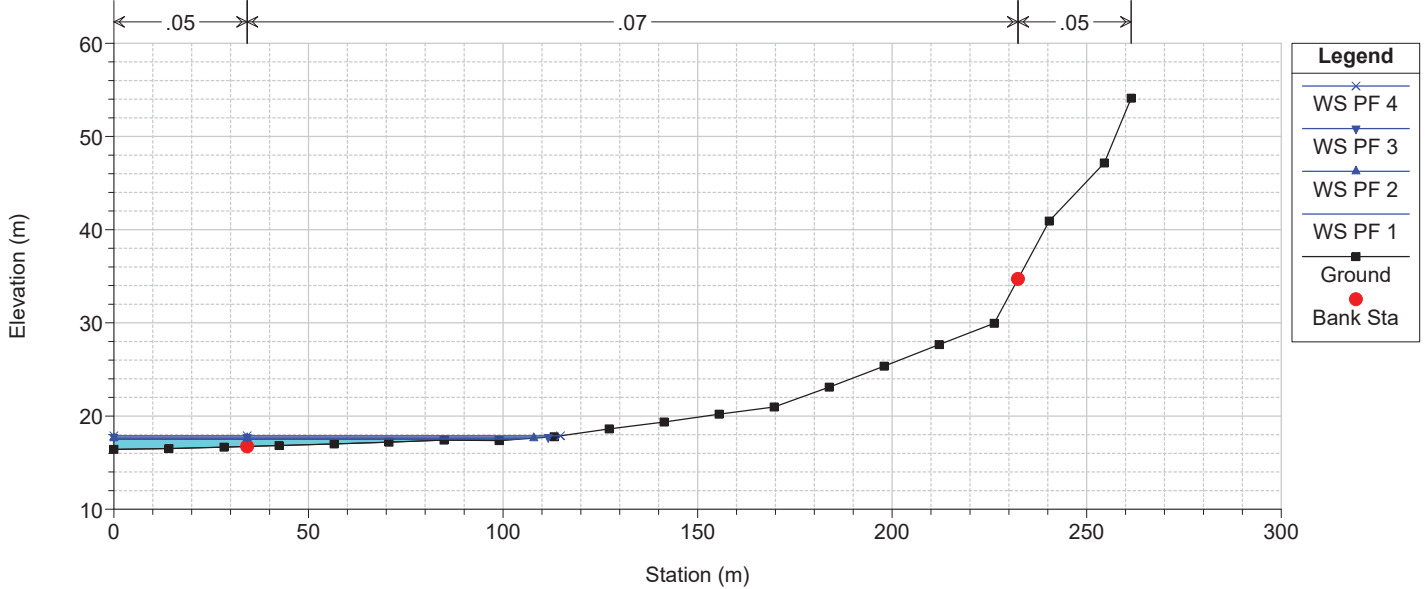
River = Rio Calvia Reach = monte RS = 435.15 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

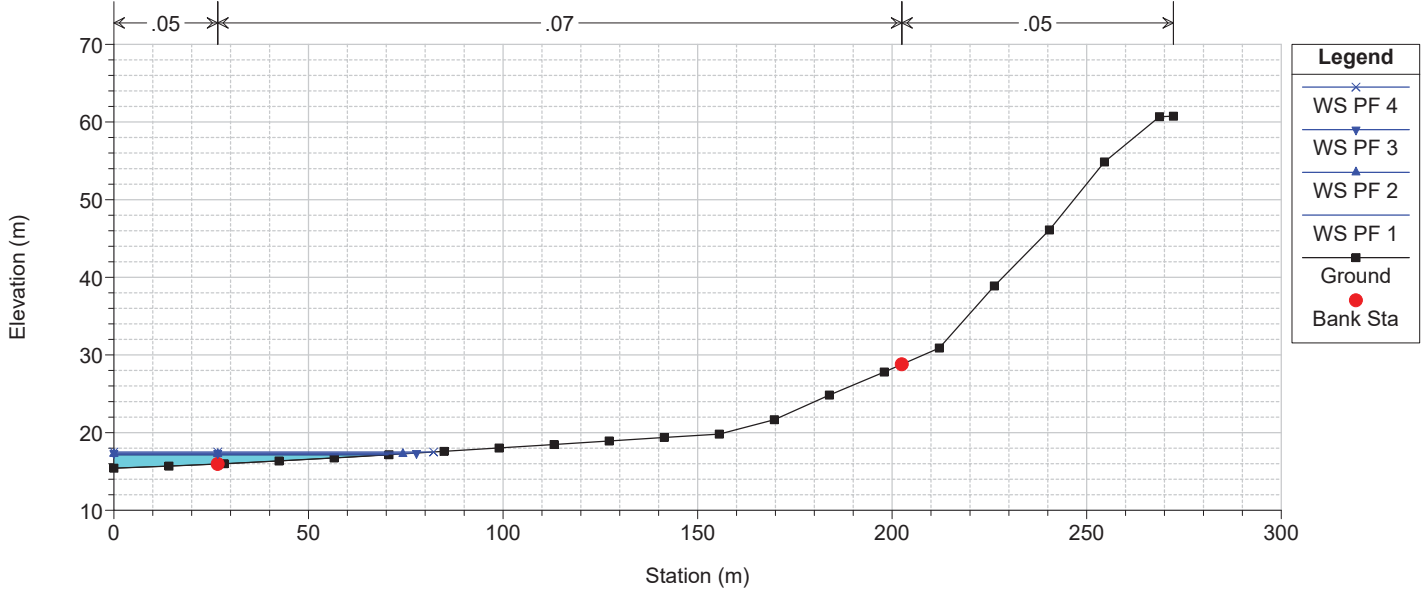
River = Rio Calvia Reach = monte RS = 366.74 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

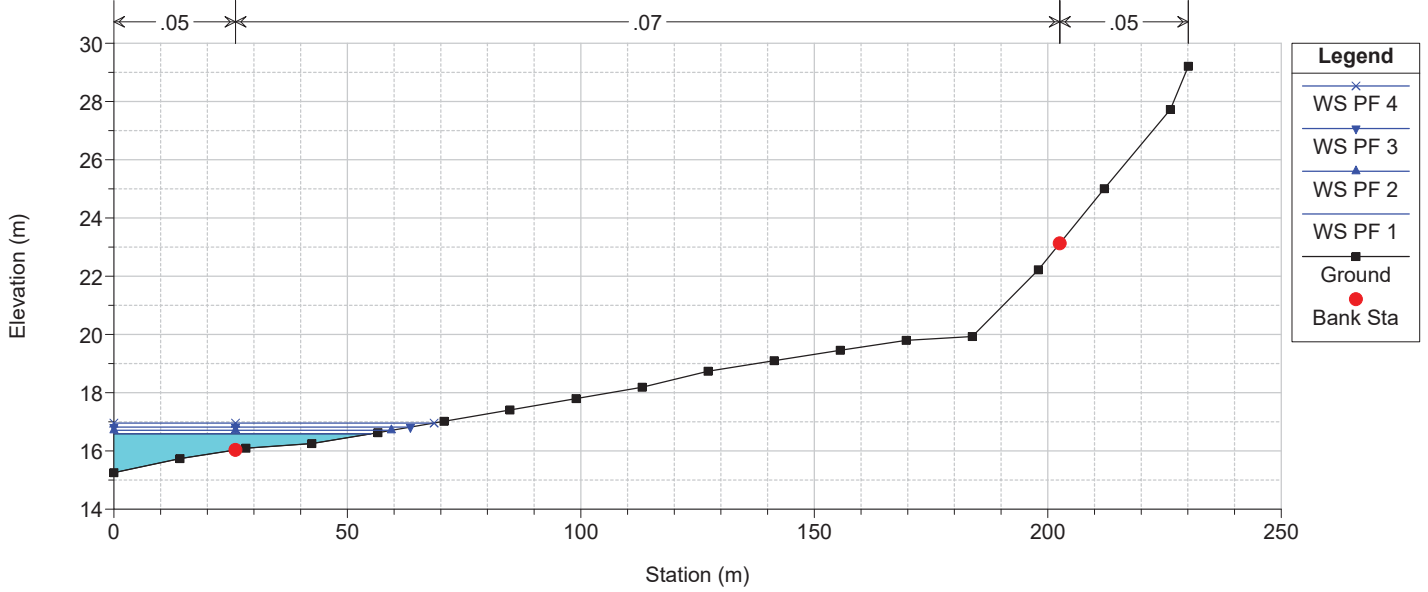
River = Rio Calvia Reach = monte RS = 286.75 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

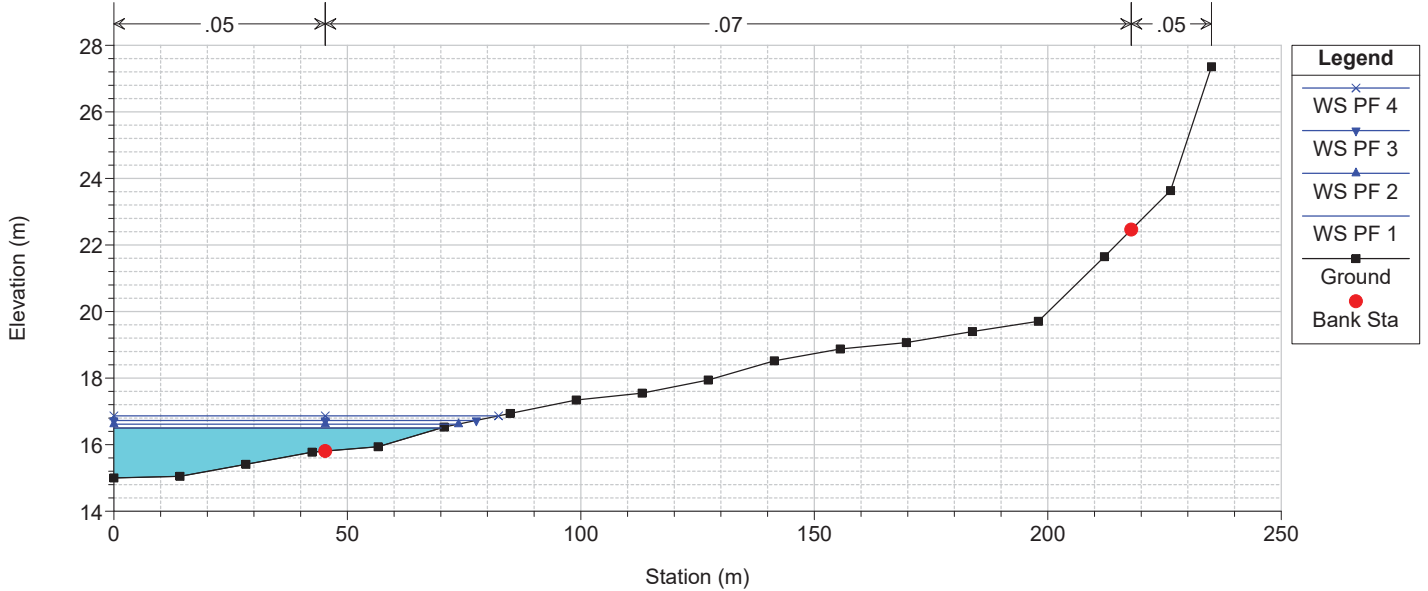
River = Rio Calvia Reach = monte RS = 232.32 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

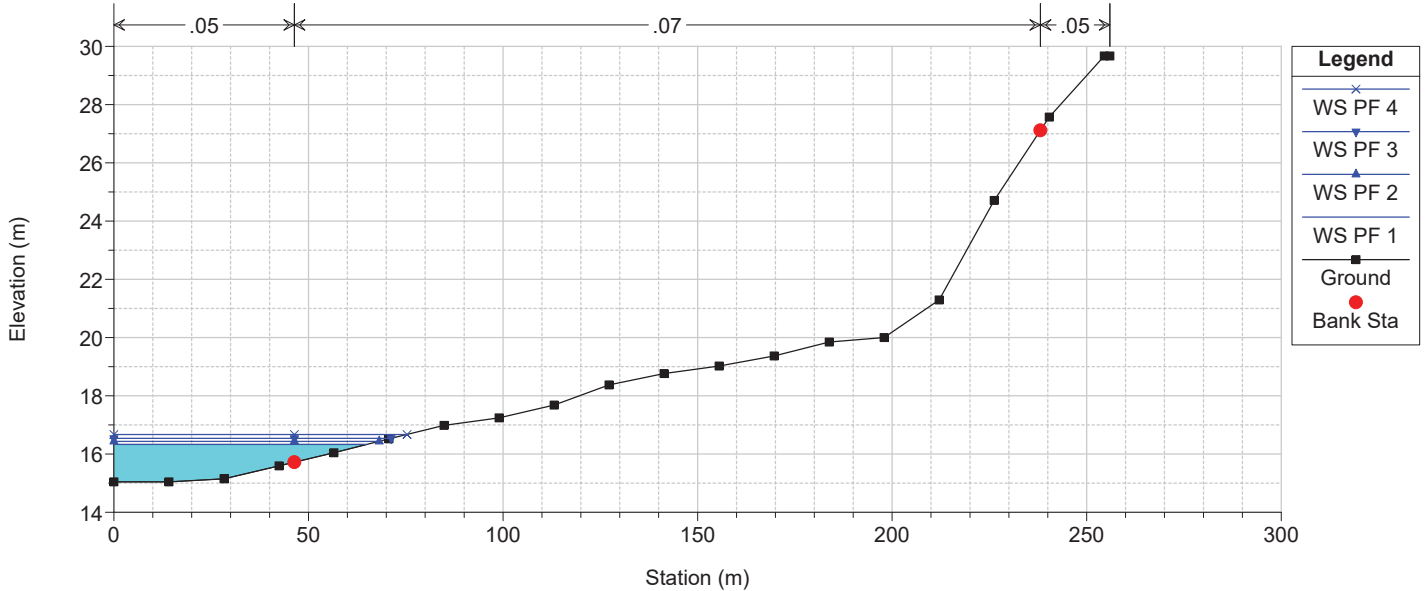
River = Rio Calvia Reach = monte RS = 188.49 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

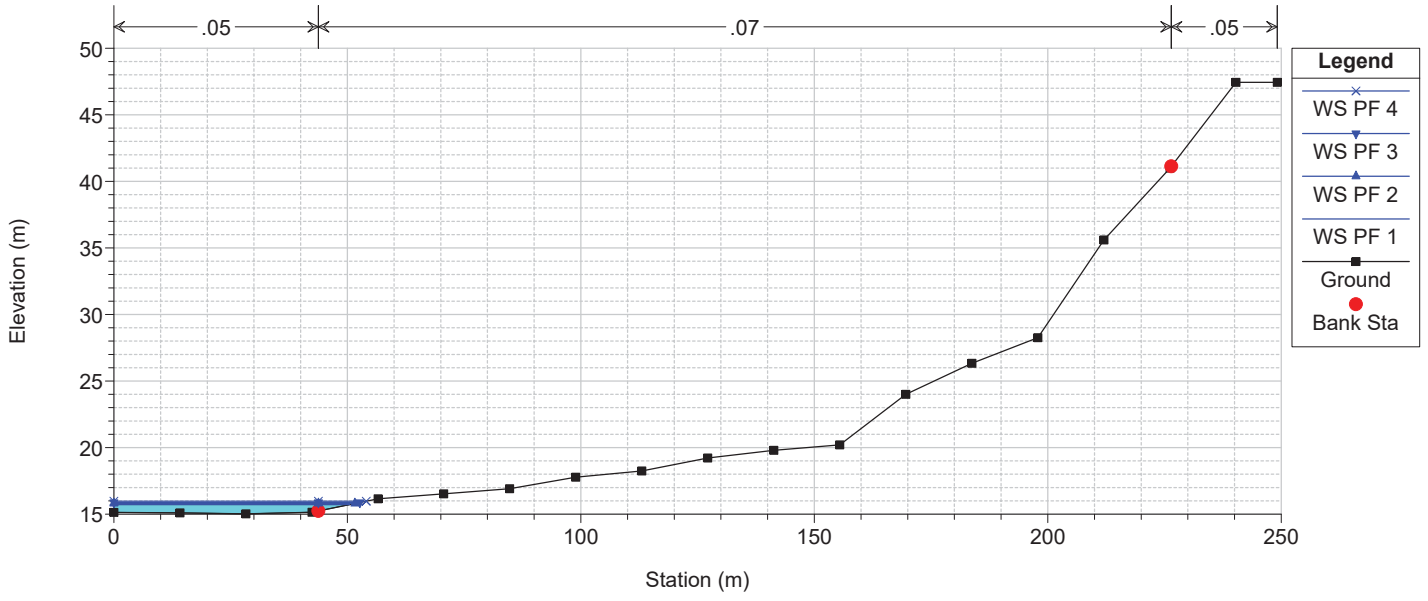
River = Rio Calvia Reach = monte RS = 143.29 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calvia monte Plan: Plan 07 10/27/2017

Geom: calvia monte Flow: calvia monte

River = Rio Calvia Reach = monte RS = 81.92 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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
monte	3652.30	PF 1	69.58	40.30	41.72	41.46	41.87	0.019474	1.73	40.30	49.91	0.61
monte	3652.30	PF 2	83.41	40.30	41.84	41.54	42.00	0.018958	1.81	46.19	52.40	0.61
monte	3652.30	PF 3	97.55	40.30	41.94	41.63	42.12	0.018594	1.88	51.93	54.72	0.62
monte	3652.30	PF 4	116.88	40.30	42.08	41.74	42.27	0.018236	1.97	59.44	57.61	0.62
monte	3586.89	PF 1	69.58	40.00	41.12		41.18	0.006257	1.08	64.21	68.19	0.36
monte	3586.89	PF 2	83.41	40.00	41.21		41.28	0.006714	1.18	70.68	69.61	0.37
monte	3586.89	PF 3	97.55	40.00	41.30		41.38	0.007146	1.27	76.78	70.92	0.39
monte	3586.89	PF 4	116.88	40.00	41.40		41.50	0.007728	1.39	84.34	72.51	0.41
monte	3542.33	PF 1	69.58	40.00	40.80		40.85	0.008457	1.01	68.60	101.00	0.39
monte	3542.33	PF 2	83.41	40.00	40.89		40.95	0.008383	1.08	77.65	111.14	0.40
monte	3542.33	PF 3	97.55	40.00	40.97		41.03	0.008304	1.13	87.06	122.39	0.40
monte	3542.33	PF 4	116.88	40.00	41.07		41.14	0.008088	1.19	100.91	144.70	0.40
monte	3444.72	PF 1	69.58	38.67	39.67		39.76	0.015478	1.28	54.25	88.45	0.52
monte	3444.72	PF 2	83.41	38.67	39.78		39.86	0.015361	1.31	63.90	100.91	0.52
monte	3444.72	PF 3	97.55	38.67	39.86		39.95	0.015335	1.33	73.18	111.85	0.53
monte	3444.72	PF 4	116.88	38.67	39.99		40.08	0.015409	1.33	88.09	136.08	0.53
monte	3393.44	PF 1	69.58	37.20	38.09	38.08	38.37	0.056010	2.36	29.53	50.68	0.99
monte	3393.44	PF 2	83.41	37.20	38.17	38.17	38.48	0.056223	2.48	33.58	53.43	1.00
monte	3393.44	PF 3	97.55	37.20	38.25	38.25	38.59	0.054877	2.57	37.89	56.07	1.00
monte	3393.44	PF 4	116.88	37.20	38.35	38.35	38.71	0.053393	2.68	43.56	59.38	1.00
monte	3362.29	PF 1	69.58	35.86	37.25		37.38	0.019206	1.60	43.42	59.55	0.60
monte	3362.29	PF 2	83.41	35.86	37.39	37.07	37.52	0.016469	1.58	52.64	65.44	0.56
monte	3362.29	PF 3	97.55	35.86	37.53	37.15	37.65	0.014556	1.58	61.78	70.38	0.54
monte	3362.29	PF 4	116.88	35.86	37.69	37.25	37.82	0.012741	1.58	73.78	75.67	0.51
monte	3318.97	PF 1	69.58	35.00	37.00		37.04	0.003654	0.94	73.70	64.29	0.28
monte	3318.97	PF 2	83.41	35.00	37.15		37.20	0.003758	1.00	83.73	68.82	0.29
monte	3318.97	PF 3	97.55	35.00	37.29		37.34	0.003846	1.04	93.51	72.97	0.29
monte	3318.97	PF 4	116.88	35.00	37.46		37.52	0.003942	1.10	106.28	78.05	0.30
monte	3257.55	PF 1	69.58	35.00	36.78		36.82	0.003467	0.91	76.36	67.48	0.27
monte	3257.55	PF 2	83.41	35.00	36.93		36.97	0.003558	0.97	86.41	71.40	0.28
monte	3257.55	PF 3	97.55	35.00	37.06		37.11	0.003647	1.02	96.09	74.99	0.29
monte	3257.55	PF 4	116.88	35.00	37.22		37.28	0.003782	1.08	108.61	79.80	0.29
monte	3199.38	PF 1	69.58	35.00	36.62		36.66	0.002370	0.78	88.99	74.49	0.23
monte	3199.38	PF 2	83.41	35.00	36.76		36.80	0.002540	0.84	99.48	78.97	0.24
monte	3199.38	PF 3	97.55	35.00	36.89		36.93	0.002689	0.89	109.63	83.08	0.25
monte	3199.38	PF 4	116.88	35.00	37.04		37.09	0.002868	0.95	122.70	88.09	0.26
monte	3148.98	PF 1	69.58	35.00	36.49		36.53	0.002772	0.81	85.82	76.53	0.24
monte	3148.98	PF 2	83.41	35.00	36.62		36.66	0.002948	0.87	95.83	80.47	0.25
monte	3148.98	PF 3	97.55	35.00	36.74		36.78	0.003103	0.93	105.46	83.98	0.26
monte	3148.98	PF 4	116.88	35.00	36.88		36.93	0.003260	0.99	117.76	87.55	0.27
monte	3096.87	PF 1	69.58	35.00	36.28		36.34	0.004809	1.03	67.87	64.26	0.32
monte	3096.87	PF 2	83.41	35.00	36.39		36.46	0.005229	1.11	75.02	66.96	0.34
monte	3096.87	PF 3	97.55	35.00	36.49		36.57	0.005623	1.19	81.81	69.43	0.35
monte	3096.87	PF 4	116.88	35.00	36.62		36.70	0.006096	1.29	90.56	72.48	0.37
monte	3032.85	PF 1	69.58	35.00	35.90		35.95	0.007820	1.03	67.56	91.72	0.38
monte	3032.85	PF 2	83.41	35.00	35.98		36.04	0.008097	1.11	75.37	94.30	0.40
monte	3032.85	PF 3	97.55	35.00	36.06		36.13	0.008405	1.18	82.69	96.65	0.41
monte	3032.85	PF 4	116.88	35.00	36.15		36.24	0.008738	1.27	92.21	99.63	0.42
monte	2971.51	PF 1	69.58	34.48	35.34		35.39	0.010718	0.99	69.96	126.84	0.43
monte	2971.51	PF 2	83.41	34.48	35.42		35.47	0.010745	1.05	79.72	134.21	0.43
monte	2971.51	PF 3	97.55	34.48	35.49		35.55	0.010675	1.09	89.61	141.44	0.44
monte	2971.51	PF 4	116.88	34.48	35.57		35.64	0.010676	1.14	102.31	150.22	0.44
monte	2898.34	PF 1	69.58	33.53	34.28		34.37	0.018863	1.31	53.15	97.52	0.57
monte	2898.34	PF 2	83.41	33.53	34.35		34.45	0.018808	1.38	60.22	101.30	0.57
monte	2898.34	PF 3	97.55	33.53	34.42		34.53	0.018720	1.45	67.07	104.47	0.58
monte	2898.34	PF 4	116.88	33.53	34.50		34.62	0.018653	1.54	75.96	108.44	0.59
monte	2844.72	PF 1	69.58	31.58	32.43	32.43	32.70	0.059558	2.27	30.59	58.03	1.00
monte	2844.72	PF 2	83.41	31.58	32.51	32.51	32.80	0.057940	2.37	35.14	61.22	1.00
monte	2844.72	PF 3	97.55	31.58	32.58	32.58	32.89	0.056525	2.46	39.64	64.23	1.00
monte	2844.72	PF 4	116.88	31.58	32.67	32.67	33.01	0.055027	2.57	45.56	67.99	1.00
monte	2773.02	PF 1	69.58	30.00	31.45	30.83	31.50	0.004969	0.97	71.82	76.00	0.32
monte	2773.02	PF 2	83.41	30.00	31.56	30.91	31.62	0.005108	1.03	80.63	78.93	0.33
monte	2773.02	PF 3	97.55	30.00	31.67	30.98	31.73	0.005240	1.09	89.10	81.65	0.33
monte	2773.02	PF 4	116.88	30.00	31.80	31.07	31.87	0.005410	1.17	99.96	85.00	0.34
monte	2707.22	PF 1	69.58	30.00	31.19		31.23	0.003398	0.80	86.79	91.64	0.26
monte	2707.22	PF 2	83.41	30.00	31.29		31.33	0.003632	0.87	96.22	94.99	0.28

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
monte	2707.22	PF 3	97.55	30.00	31.39		31.43	0.003837	0.93	105.34	98.11	0.29
monte	2707.22	PF 4	116.88	30.00	31.50		31.56	0.004085	1.00	117.02	101.97	0.30
monte	2641.55	PF 1	69.58	30.00	31.03		31.05	0.002162	0.63	111.29	121.79	0.21
monte	2641.55	PF 2	83.41	30.00	31.12		31.14	0.002316	0.68	122.40	123.97	0.22
monte	2641.55	PF 3	97.55	30.00	31.20		31.23	0.002458	0.73	132.96	126.00	0.23
monte	2641.55	PF 4	116.88	30.00	31.31		31.34	0.002623	0.80	146.31	128.12	0.24
monte	2564.60	PF 1	69.58	30.00	30.83		30.85	0.002939	0.65	107.22	139.69	0.24
monte	2564.60	PF 2	83.41	30.00	30.91		30.93	0.003103	0.71	118.16	141.35	0.25
monte	2564.60	PF 3	97.55	30.00	30.98		31.01	0.003255	0.76	128.52	142.89	0.26
monte	2564.60	PF 4	116.88	30.00	31.07		31.11	0.003440	0.83	141.65	144.83	0.27
monte	2488.15	PF 1	69.58	29.76	30.35		30.41	0.015608	1.07	64.79	138.81	0.50
monte	2488.15	PF 2	83.41	29.76	30.41		30.48	0.015410	1.14	72.90	140.63	0.51
monte	2488.15	PF 3	97.55	29.76	30.46		30.54	0.015374	1.21	80.52	142.33	0.51
monte	2488.15	PF 4	116.88	29.76	30.54		30.62	0.015052	1.29	90.90	144.61	0.52
monte	2422.39	PF 1	69.58	28.40	29.34		29.41	0.014800	1.15	60.37	111.74	0.50
monte	2422.39	PF 2	83.41	28.40	29.43		29.50	0.014353	1.19	70.31	121.81	0.50
monte	2422.39	PF 3	97.55	28.40	29.49		29.57	0.014035	1.24	78.79	125.88	0.50
monte	2422.39	PF 4	116.88	28.40	29.57		29.66	0.014120	1.31	88.92	130.47	0.51
monte	2367.79	PF 1	69.58	27.27	28.19		28.32	0.027929	1.61	43.27	78.26	0.69
monte	2367.79	PF 2	83.41	27.27	28.27		28.41	0.028893	1.69	49.40	85.16	0.71
monte	2367.79	PF 3	97.55	27.27	28.34		28.49	0.029283	1.74	56.06	93.32	0.72
monte	2367.79	PF 4	116.88	27.27	28.43		28.60	0.028304	1.80	65.04	100.57	0.71
monte	2339.65	PF 1	69.58	26.65	27.72		27.79	0.012722	1.19	58.69	92.96	0.48
monte	2339.65	PF 2	83.41	26.65	27.82		27.90	0.011677	1.22	68.42	97.44	0.46
monte	2339.65	PF 3	97.55	26.65	27.92		28.00	0.010893	1.25	78.06	101.69	0.46
monte	2339.65	PF 4	116.88	26.65	28.05		28.13	0.010009	1.28	91.15	107.19	0.44
monte	2307.62	PF 1	69.58	26.39	27.47		27.52	0.005916	0.91	76.53	101.63	0.33
monte	2307.62	PF 2	83.41	26.39	27.60		27.64	0.005554	0.93	89.38	108.88	0.33
monte	2307.62	PF 3	97.55	26.39	27.71		27.76	0.005105	0.95	102.40	113.51	0.32
monte	2307.62	PF 4	116.88	26.39	27.86		27.91	0.004717	0.98	119.19	119.22	0.31
monte	2281.75	PF 1	69.58	26.10	27.38		27.41	0.002857	0.70	99.35	115.43	0.24
monte	2281.75	PF 2	83.41	26.10	27.51		27.54	0.002669	0.73	114.39	118.55	0.24
monte	2281.75	PF 3	97.55	26.10	27.64		27.66	0.002520	0.76	129.21	121.54	0.23
monte	2281.75	PF 4	116.88	26.10	27.79		27.82	0.002419	0.79	147.61	125.16	0.23
monte	2240.67	PF 1	69.58	25.34	27.35		27.36	0.000596	0.34	154.62	140.68	0.11
monte	2240.67	PF 2	83.41	25.34	27.47		27.49	0.000645	0.37	172.96	148.01	0.12
monte	2240.67	PF 3	97.55	25.34	27.60		27.62	0.000682	0.39	191.56	155.40	0.12
monte	2240.67	PF 4	116.88	25.34	27.74		27.77	0.000731	0.42	215.22	164.61	0.13
monte	2222.08	PF 1	69.58	25.17	27.33		27.34	0.001355	0.52	130.91	134.27	0.17
monte	2222.08	PF 2	83.41	25.17	27.45		27.47	0.001339	0.55	148.16	138.20	0.17
monte	2222.08	PF 3	97.55	25.17	27.57		27.59	0.001318	0.58	165.31	142.00	0.17
monte	2222.08	PF 4	116.88	25.17	27.72		27.74	0.001319	0.61	186.57	146.58	0.17
monte	2189.58	PF 1	69.58	25.16	27.28		27.30	0.001353	0.55	126.37	117.67	0.17
monte	2189.58	PF 2	83.41	25.16	27.41		27.42	0.001408	0.59	141.42	122.36	0.18
monte	2189.58	PF 3	97.55	25.16	27.53		27.55	0.001497	0.62	156.67	130.91	0.18
monte	2189.58	PF 4	116.88	25.16	27.67		27.69	0.001605	0.66	176.54	141.71	0.19
monte	2156.24	PF 1	69.58	25.11	27.23		27.25	0.001578	0.59	118.86	113.29	0.18
monte	2156.24	PF 2	83.41	25.11	27.35		27.37	0.001686	0.63	133.18	120.52	0.19
monte	2156.24	PF 3	97.55	25.11	27.47		27.49	0.001715	0.66	147.76	125.16	0.19
monte	2156.24	PF 4	116.88	25.11	27.61		27.64	0.001767	0.70	165.93	130.41	0.20
monte	2122.34	PF 1	69.58	25.46	27.13		27.16	0.004005	0.87	79.98	84.59	0.29
monte	2122.34	PF 2	83.41	25.46	27.24		27.28	0.004140	0.93	89.92	88.54	0.29
monte	2122.34	PF 3	97.55	25.46	27.35		27.40	0.004432	0.97	100.42	97.12	0.31
monte	2122.34	PF 4	116.88	25.46	27.49		27.54	0.004666	1.02	114.35	106.49	0.31
monte	2083.94	PF 1	69.58	25.18	26.96		27.00	0.004357	0.92	75.26	77.31	0.30
monte	2083.94	PF 2	83.41	25.18	27.06		27.11	0.004818	1.00	83.33	81.93	0.32
monte	2083.94	PF 3	97.55	25.18	27.16		27.21	0.005288	1.07	91.47	87.68	0.33
monte	2083.94	PF 4	116.88	25.18	27.28		27.34	0.005808	1.14	102.32	94.93	0.35
monte	2063.03	PF 1	69.58	25.39	26.78		26.86	0.011346	1.22	57.13	79.71	0.46
monte	2063.03	PF 2	83.41	25.39	26.87		26.96	0.011559	1.30	64.39	83.04	0.47
monte	2063.03	PF 3	97.55	25.39	26.96		27.05	0.011711	1.36	71.51	86.19	0.48
monte	2063.03	PF 4	116.88	25.39	27.06		27.17	0.011889	1.45	80.77	90.12	0.49
monte	1997.22	PF 1	69.58	25.00	26.16		26.21	0.008527	0.99	70.08	107.27	0.39
monte	1997.22	PF 2	83.41	25.00	26.24		26.30	0.008570	1.05	79.44	112.26	0.40
monte	1997.22	PF 3	97.55	25.00	26.32		26.38	0.008719	1.11	88.18	116.72	0.41
monte	1997.22	PF 4	116.88	25.00	26.41		26.48	0.008986	1.18	99.17	122.09	0.42

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
monte	1951.58	PF 1	69.58	25.00	25.95		25.97	0.003384	0.65	107.50	156.36	0.25
monte	1951.58	PF 2	83.41	25.00	26.02		26.04	0.003683	0.70	119.44	165.16	0.26
monte	1951.58	PF 3	97.55	25.00	26.09		26.11	0.003950	0.75	130.55	171.93	0.27
monte	1951.58	PF 4	116.88	25.00	26.17		26.20	0.004239	0.81	144.60	178.44	0.29
monte	1928.95	PF 1	69.58	25.00	25.89		25.91	0.001986	0.50	140.13	205.94	0.19
monte	1928.95	PF 2	83.41	25.00	25.97		25.98	0.002111	0.54	154.96	211.87	0.20
monte	1928.95	PF 3	97.55	25.00	26.03		26.04	0.002247	0.58	168.34	216.51	0.21
monte	1928.95	PF 4	116.88	25.00	26.10		26.12	0.002427	0.63	185.05	222.15	0.22
monte	1910.85	PF 1	69.58	25.00	25.87		25.88	0.001300	0.42	164.48	227.21	0.16
monte	1910.85	PF 2	83.41	25.00	25.94		25.95	0.001515	0.46	180.51	244.88	0.17
monte	1910.85	PF 3	97.55	25.00	26.00		26.01	0.001628	0.50	195.58	251.81	0.18
monte	1910.85	PF 4	116.88	25.00	26.07		26.09	0.001731	0.54	215.18	287.59	0.19
monte	1892.44	PF 1	69.58	25.00	25.84		25.85	0.001646	0.45	155.69	247.20	0.17
monte	1892.44	PF 2	83.41	25.00	25.90		25.92	0.001737	0.49	172.03	258.62	0.18
monte	1892.44	PF 3	97.55	25.00	25.96		25.98	0.001829	0.53	187.42	267.74	0.19
monte	1892.44	PF 4	116.88	25.00	26.03		26.05	0.001936	0.58	206.92	270.77	0.20
monte	1848.70	PF 1	69.58	25.00	25.73		25.75	0.003523	0.60	117.50	218.00	0.25
monte	1848.70	PF 2	83.41	25.00	25.79		25.81	0.003760	0.65	130.39	230.89	0.26
monte	1848.70	PF 3	97.55	25.00	25.84		25.86	0.003962	0.70	142.59	236.00	0.27
monte	1848.70	PF 4	116.88	25.00	25.90		25.93	0.004195	0.75	158.02	240.00	0.28
monte	1829.86	PF 1	69.58	25.00	25.65		25.67	0.004825	0.67	107.17	224.18	0.29
monte	1829.86	PF 2	83.41	25.00	25.70		25.73	0.005017	0.71	119.07	227.74	0.30
monte	1829.86	PF 3	97.55	25.00	25.75		25.78	0.005177	0.76	130.08	230.10	0.30
monte	1829.86	PF 4	116.88	25.00	25.81		25.84	0.005385	0.82	143.92	233.04	0.31
monte	1800.95	PF 1	69.58	25.00	25.51		25.53	0.005127	0.62	104.89	231.11	0.29
monte	1800.95	PF 2	83.41	25.00	25.56		25.58	0.005402	0.68	115.49	233.19	0.30
monte	1800.95	PF 3	97.55	25.00	25.60		25.63	0.005722	0.73	125.04	235.05	0.31
monte	1800.95	PF 4	116.88	25.00	25.65		25.68	0.006152	0.80	136.83	237.32	0.33
monte	1790.01	PF 1	69.58	24.98	25.43		25.46	0.009432	0.75	86.57	226.79	0.38
monte	1790.01	PF 2	83.41	24.98	25.47		25.51	0.009649	0.81	96.00	227.95	0.39
monte	1790.01	PF 3	97.55	24.98	25.50		25.55	0.010195	0.87	103.86	228.92	0.41
monte	1790.01	PF 4	116.88	24.98	25.54		25.60	0.011088	0.95	113.06	230.04	0.43
monte	1779.36	PF 1	69.58	24.43	25.16	25.16	25.27	0.067088	1.47	48.30	226.87	0.94
monte	1779.36	PF 2	83.41	24.43	25.18	25.18	25.31	0.068675	1.57	53.70	229.07	0.96
monte	1779.36	PF 3	97.55	24.43	25.21	25.21	25.35	0.064500	1.62	60.28	230.29	0.95
monte	1779.36	PF 4	116.88	24.43	25.26	25.25	25.40	0.052525	1.60	71.71	232.39	0.87
monte	1768.51	PF 1	69.58	22.91	24.00	24.09	24.47	0.079832	3.04	22.86	34.80	1.20
monte	1768.51	PF 2	83.41	22.91	24.15	24.20	24.59	0.063683	2.95	28.27	38.05	1.09
monte	1768.51	PF 3	97.55	22.91	24.28	24.29	24.71	0.054007	2.90	33.59	40.91	1.02
monte	1768.51	PF 4	116.88	22.91	24.52	24.52	24.86	0.049810	2.58	45.67	71.76	0.96
monte	1753.11	PF 1	69.58	21.18	21.86	22.10	22.64	0.186257	3.92	17.76	34.99	1.76
monte	1753.11	PF 2	83.41	21.18	21.90	22.20	22.88	0.218440	4.39	18.98	35.47	1.92
monte	1753.11	PF 3	97.55	21.18	21.93	22.29	23.10	0.241174	4.79	20.36	36.00	2.03
monte	1753.11	PF 4	116.88	21.18	22.01	22.40	23.32	0.237401	5.07	23.06	37.02	2.05
monte	1731.45	PF 1	69.58	20.00	21.08	20.49	21.12	0.003588	0.81	85.78	92.86	0.27
monte	1731.45	PF 2	83.41	20.00	21.17	20.54	21.21	0.003837	0.88	94.25	94.12	0.28
monte	1731.45	PF 3	97.55	20.00	21.26	20.60	21.30	0.004073	0.95	102.21	95.29	0.29
monte	1731.45	PF 4	116.88	20.00	21.36	20.67	21.42	0.004362	1.04	112.29	96.76	0.31
monte	1707.19	PF 1	69.58	20.00	21.02		21.04	0.002606	0.68	102.81	114.93	0.23
monte	1707.19	PF 2	83.41	20.00	21.10		21.13	0.002786	0.74	112.84	116.15	0.24
monte	1707.19	PF 3	97.55	20.00	21.18		21.22	0.002957	0.80	122.24	117.28	0.25
monte	1707.19	PF 4	116.88	20.00	21.29		21.32	0.003165	0.87	134.14	118.69	0.26
monte	1658.16	PF 1	69.58	20.00	20.95		20.96	0.001132	0.43	161.96	191.57	0.15
monte	1658.16	PF 2	83.41	20.00	21.03		21.04	0.001202	0.47	178.04	193.41	0.16
monte	1658.16	PF 3	97.55	20.00	21.11		21.12	0.001269	0.51	193.09	195.11	0.16
monte	1658.16	PF 4	116.88	20.00	21.20		21.22	0.001349	0.55	212.23	197.26	0.17
monte	1617.88	PF 1	69.58	20.00	20.91		20.92	0.000834	0.37	190.51	232.21	0.13
monte	1617.88	PF 2	83.41	20.00	20.99		21.00	0.000891	0.40	209.56	236.26	0.13
monte	1617.88	PF 3	97.55	20.00	21.07		21.08	0.000932	0.43	227.64	240.68	0.14
monte	1617.88	PF 4	116.88	20.00	21.16		21.17	0.000976	0.47	250.95	246.66	0.14
monte	1584.01	PF 1	69.58	20.00	20.89		20.89	0.000559	0.31	224.16	273.85	0.11
monte	1584.01	PF 2	83.41	20.00	20.97		20.97	0.000594	0.34	246.23	277.59	0.11
monte	1584.01	PF 3	97.55	20.00	21.04		21.05	0.000625	0.37	267.15	280.71	0.11
monte	1584.01	PF 4	116.88	20.00	21.14		21.15	0.000660	0.40	293.90	284.41	0.12
monte	1508.94	PF 1	69.58	20.00	20.86		20.86	0.000344	0.24	276.97	334.93	0.08

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
monte	1508.94	PF 2	83.41	20.00	20.94		20.94	0.000366	0.26	303.31	335.93	0.09
monte	1508.94	PF 3	97.55	20.00	21.01		21.02	0.000386	0.28	328.05	336.88	0.09
monte	1508.94	PF 4	116.88	20.00	21.11		21.11	0.000409	0.31	359.49	338.04	0.09
monte	1456.51	PF 1	69.58	20.00	20.85		20.85	0.000130	0.15	406.88	484.06	0.05
monte	1456.51	PF 2	83.41	20.00	20.93		20.93	0.000139	0.16	444.60	484.48	0.05
monte	1456.51	PF 3	97.55	20.00	21.00		21.00	0.000148	0.17	479.96	484.88	0.06
monte	1456.51	PF 4	116.88	20.00	21.09		21.09	0.000158	0.19	524.86	485.39	0.06
monte	1411.66	PF 1	69.58	20.00	20.84		20.84	0.000246	0.18	303.78	398.60	0.07
monte	1411.66	PF 2	83.41	20.00	20.91		20.92	0.000262	0.19	334.79	406.73	0.07
monte	1411.66	PF 3	97.55	20.00	20.99		20.99	0.000277	0.21	364.43	415.10	0.07
monte	1411.66	PF 4	116.88	20.00	21.08		21.08	0.000294	0.22	402.92	425.32	0.08
monte	1380.85	PF 1	69.58	20.00	20.83		20.83	0.000250	0.19	299.87	379.40	0.07
monte	1380.85	PF 2	83.41	20.00	20.90		20.91	0.000267	0.21	328.95	382.67	0.07
monte	1380.85	PF 3	97.55	20.00	20.98		20.98	0.000283	0.22	356.42	385.73	0.08
monte	1380.85	PF 4	116.88	20.00	21.07		21.07	0.000301	0.24	391.64	389.88	0.08
monte	1349.85	PF 1	69.58	20.00	20.82		20.82	0.000195	0.17	337.22	424.45	0.06
monte	1349.85	PF 2	83.41	20.00	20.90		20.90	0.000208	0.19	369.48	425.62	0.06
monte	1349.85	PF 3	97.55	20.00	20.97		20.97	0.000219	0.20	399.79	426.72	0.07
monte	1349.85	PF 4	116.88	20.00	21.06		21.06	0.000232	0.22	438.43	428.11	0.07
monte	1323.82	PF 1	69.58	20.00	20.81		20.81	0.000152	0.15	384.95	479.46	0.05
monte	1323.82	PF 2	83.41	20.00	20.89		20.89	0.000162	0.16	421.10	480.66	0.06
monte	1323.82	PF 3	97.55	20.00	20.96		20.96	0.000172	0.18	455.02	481.67	0.06
monte	1323.82	PF 4	116.88	20.00	21.05		21.05	0.000183	0.20	498.31	482.95	0.06
monte	1137.58	PF 1	69.58	19.94	20.79		20.79	0.000184	0.15	366.62	496.54	0.06
monte	1137.58	PF 2	83.41	19.94	20.86		20.87	0.000194	0.16	403.37	498.28	0.06
monte	1137.58	PF 3	97.55	19.94	20.93		20.93	0.000204	0.18	437.91	499.91	0.06
monte	1137.58	PF 4	116.88	19.94	21.02		21.02	0.000215	0.19	482.13	501.98	0.07
monte	1083.70	PF 1	69.58	19.78	20.77		20.77	0.000297	0.21	301.05	369.79	0.08
monte	1083.70	PF 2	83.41	19.78	20.84		20.85	0.000322	0.23	327.89	370.92	0.08
monte	1083.70	PF 3	97.55	19.78	20.91		20.92	0.000346	0.25	353.11	371.97	0.08
monte	1083.70	PF 4	116.88	19.78	21.00		21.00	0.000373	0.28	385.42	373.32	0.09
monte	1018.07	PF 1	69.58	19.81	20.75		20.76	0.000327	0.23	276.69	342.03	0.08
monte	1018.07	PF 2	83.41	19.81	20.82		20.83	0.000356	0.25	300.96	342.40	0.08
monte	1018.07	PF 3	97.55	19.81	20.89		20.90	0.000382	0.27	323.71	342.73	0.09
monte	1018.07	PF 4	116.88	19.81	20.98		20.98	0.000412	0.30	352.85	343.16	0.09
monte	963.98	PF 1	69.58	19.87	20.73		20.74	0.000465	0.27	237.32	302.15	0.09
monte	963.98	PF 2	83.41	19.87	20.80		20.81	0.000505	0.29	258.21	302.67	0.10
monte	963.98	PF 3	97.55	19.87	20.87		20.87	0.000542	0.32	277.80	303.16	0.10
monte	963.98	PF 4	116.88	19.87	20.95		20.96	0.000584	0.35	302.97	303.79	0.11
monte	915.58	PF 1	69.58	19.90	20.71		20.72	0.000605	0.29	214.40	290.14	0.11
monte	915.58	PF 2	83.41	19.90	20.78		20.79	0.000652	0.32	233.90	290.86	0.11
monte	915.58	PF 3	97.55	19.90	20.84		20.85	0.000695	0.35	252.20	291.53	0.12
monte	915.58	PF 4	116.88	19.90	20.92		20.93	0.000743	0.38	275.81	292.39	0.12
monte	889.79	PF 1	69.58	19.93	20.70		20.70	0.000601	0.28	215.30	299.73	0.11
monte	889.79	PF 2	83.41	19.93	20.76		20.77	0.000645	0.31	235.13	300.05	0.11
monte	889.79	PF 3	97.55	19.93	20.83		20.83	0.000685	0.34	253.73	300.35	0.12
monte	889.79	PF 4	116.88	19.93	20.91		20.92	0.000728	0.37	277.73	300.74	0.12
monte	860.63	PF 1	69.58	19.97	20.68		20.69	0.000593	0.27	218.70	315.94	0.10
monte	860.63	PF 2	83.41	19.97	20.75		20.76	0.000632	0.30	239.30	316.47	0.11
monte	860.63	PF 3	97.55	19.97	20.81		20.82	0.000669	0.32	258.63	316.97	0.11
monte	860.63	PF 4	116.88	19.97	20.89		20.90	0.000708	0.35	283.67	317.61	0.12
monte	811.17	PF 1	69.58	19.97	20.65		20.66	0.000775	0.29	195.88	298.89	0.12
monte	811.17	PF 2	83.41	19.97	20.72		20.72	0.000823	0.32	214.72	299.50	0.12
monte	811.17	PF 3	97.55	19.97	20.77		20.78	0.000868	0.35	232.40	300.08	0.13
monte	811.17	PF 4	116.88	19.97	20.85		20.86	0.000914	0.38	255.45	300.83	0.13
monte	766.01	PF 1	69.58	19.96	20.62		20.63	0.000715	0.28	203.46	312.53	0.11
monte	766.01	PF 2	83.41	19.96	20.69		20.69	0.000764	0.31	222.57	312.73	0.12
monte	766.01	PF 3	97.55	19.96	20.74		20.75	0.000809	0.34	240.49	312.92	0.12
monte	766.01	PF 4	116.88	19.96	20.82		20.83	0.000853	0.37	263.99	313.17	0.13
monte	692.54	PF 1	69.58	19.93	20.57		20.58	0.000830	0.29	194.74	315.71	0.12
monte	692.54	PF 2	83.41	19.93	20.63		20.64	0.000890	0.32	212.81	316.17	0.13
monte	692.54	PF 3	97.55	19.93	20.68		20.69	0.000945	0.35	229.78	316.60	0.13
monte	692.54	PF 4	116.88	19.93	20.75		20.76	0.000995	0.38	252.47	317.18	0.14
monte	635.09	PF 1	69.58	19.90	20.52		20.53	0.000790	0.27	211.15	372.23	0.12
monte	635.09	PF 2	83.41	19.90	20.57		20.58	0.000842	0.30	231.18	372.80	0.12
monte	635.09	PF 3	97.55	19.90	20.63		20.63	0.000889	0.32	250.12	373.33	0.13

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
monte	635.09	PF 4	116.88	19.90	20.69		20.70	0.000924	0.35	275.89	374.06	0.13
monte	572.62	PF 1	69.58	19.92	20.46		20.47	0.000913	0.26	205.02	400.40	0.12
monte	572.62	PF 2	83.41	19.92	20.51		20.52	0.000966	0.29	225.20	400.88	0.13
monte	572.62	PF 3	97.55	19.92	20.56		20.57	0.001012	0.31	244.35	401.34	0.13
monte	572.62	PF 4	116.88	19.92	20.63		20.64	0.001031	0.34	271.35	401.98	0.14
monte	513.73	PF 1	69.58	19.83	20.36		20.37	0.002784	0.41	150.07	410.09	0.21
monte	513.73	PF 2	83.41	19.83	20.41		20.42	0.002637	0.43	169.92	410.33	0.21
monte	513.73	PF 3	97.55	19.83	20.45		20.47	0.002530	0.45	188.85	410.56	0.20
monte	513.73	PF 4	116.88	19.83	20.53		20.54	0.002253	0.47	217.77	410.92	0.20
monte	488.26	PF 1	69.58	19.59	20.17		20.21	0.012066	0.89	78.43	199.66	0.43
monte	488.26	PF 2	83.41	19.59	20.22		20.27	0.011737	0.94	88.27	200.25	0.44
monte	488.26	PF 3	97.55	19.59	20.27		20.32	0.011647	0.99	97.28	200.79	0.44
monte	488.26	PF 4	116.88	19.59	20.36		20.41	0.009480	0.99	115.50	201.87	0.41
monte	435.15	PF 1	69.58	18.37	18.90	18.90	19.11	0.027230	0.98	39.47	98.92	0.60
monte	435.15	PF 2	83.41	18.37	18.96	18.96	19.19	0.026797	1.05	45.36	103.68	0.61
monte	435.15	PF 3	97.55	18.37	19.02	19.02	19.27	0.025766	1.11	51.65	108.53	0.61
monte	435.15	PF 4	116.88	18.37	19.03	19.03	19.37	0.034396	1.30	53.05	109.58	0.71
monte	366.74	PF 1	69.58	16.73	17.51	17.27	17.62	0.007308	0.62	58.36	103.87	0.33
monte	366.74	PF 2	83.41	16.73	17.63	17.34	17.74	0.006371	0.68	70.67	107.90	0.32
monte	366.74	PF 3	97.55	16.73	17.74	17.37	17.84	0.005768	0.72	82.49	111.63	0.31
monte	366.74	PF 4	116.88	16.73	17.88	17.53	17.98	0.005099	0.77	98.32	114.76	0.30
monte	286.75	PF 1	69.58	15.96	17.14		17.22	0.003143	0.58	65.88	70.51	0.24
monte	286.75	PF 2	83.41	15.96	17.26		17.35	0.003342	0.63	74.16	74.27	0.25
monte	286.75	PF 3	97.55	15.96	17.37		17.47	0.003510	0.69	82.30	77.78	0.26
monte	286.75	PF 4	116.88	15.96	17.50		17.62	0.003697	0.75	92.98	82.17	0.27
monte	232.32	PF 1	69.58	16.03	16.59	16.57	16.89	0.019637	0.93	33.08	55.08	0.53
monte	232.32	PF 2	83.41	16.03	16.71	16.65	17.01	0.017610	1.01	39.82	59.42	0.52
monte	232.32	PF 3	97.55	16.03	16.82	16.75	17.13	0.016093	1.06	46.66	63.49	0.51
monte	232.32	PF 4	116.88	16.03	16.96	16.86	17.27	0.014611	1.13	55.88	68.59	0.50
monte	188.49	PF 1	69.58	15.81	16.50		16.57	0.003003	0.45	64.66	70.07	0.22
monte	188.49	PF 2	83.41	15.81	16.62		16.70	0.003089	0.49	73.02	73.80	0.23
monte	188.49	PF 3	97.55	15.81	16.73		16.82	0.003152	0.53	81.39	77.61	0.23
monte	188.49	PF 4	116.88	15.81	16.87		16.97	0.003218	0.57	92.48	82.40	0.24
monte	143.29	PF 1	69.58	15.72	16.33	15.82	16.41	0.003798	0.40	57.42	64.95	0.23
monte	143.29	PF 2	83.41	15.72	16.44		16.53	0.003936	0.46	64.62	68.16	0.24
monte	143.29	PF 3	97.55	15.72	16.54		16.65	0.004023	0.50	71.89	71.28	0.25
monte	143.29	PF 4	116.88	15.72	16.67		16.80	0.004112	0.56	81.54	75.32	0.26
monte	81.92	PF 1	69.58	15.24	15.72	15.72	16.02	0.028459	0.93	29.27	50.48	0.61
monte	81.92	PF 2	83.41	15.24	15.80	15.80	16.14	0.027263	1.01	33.35	51.60	0.61
monte	81.92	PF 3	97.55	15.24	15.88	15.88	16.25	0.026292	1.08	37.36	52.66	0.61
monte	81.92	PF 4	116.88	15.24	15.97	15.97	16.39	0.025295	1.16	42.58	54.03	0.61

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

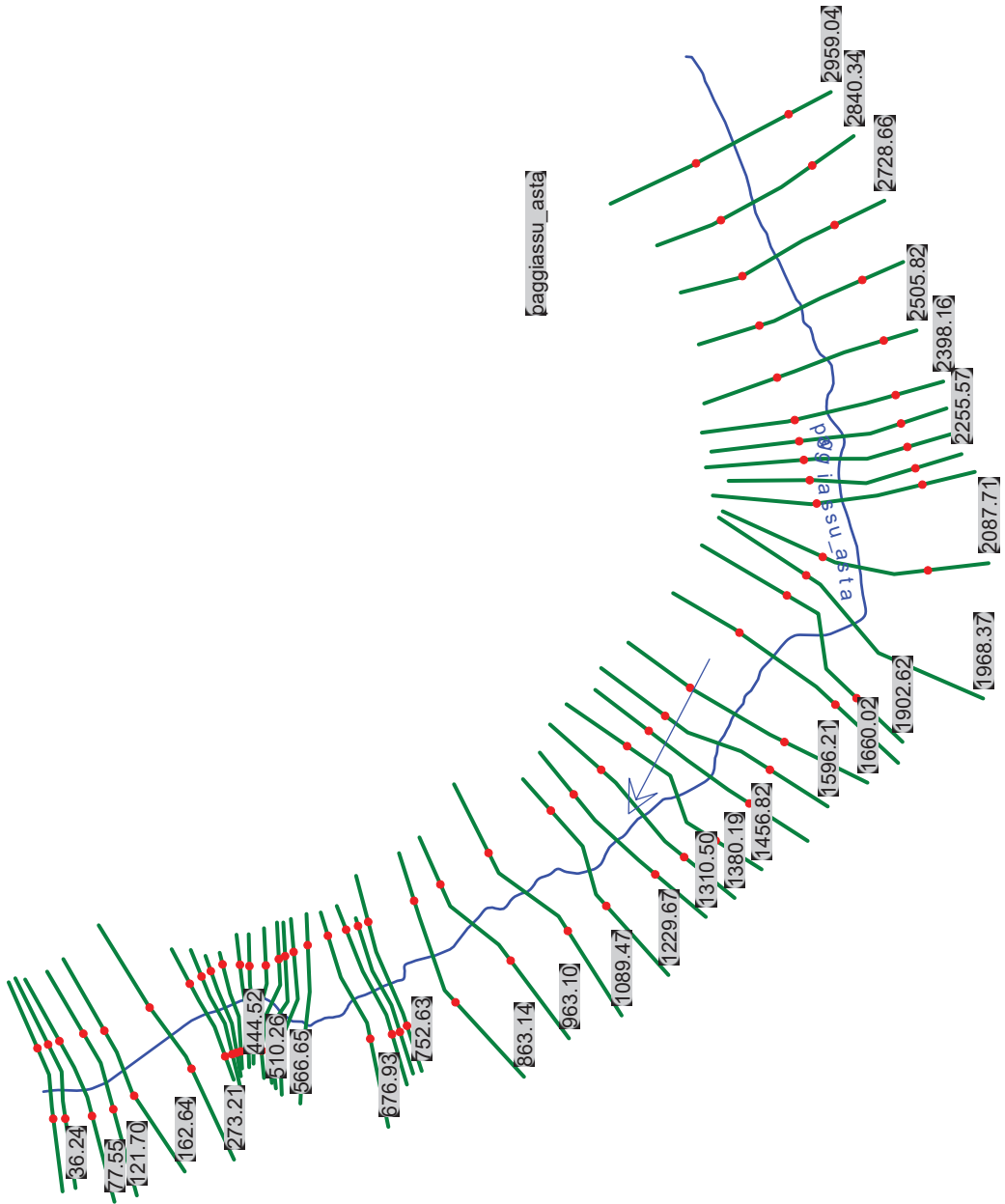
SIMULAZIONI IN MOTO PERMANENTE

Modello 5 – rio Paggiassu

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

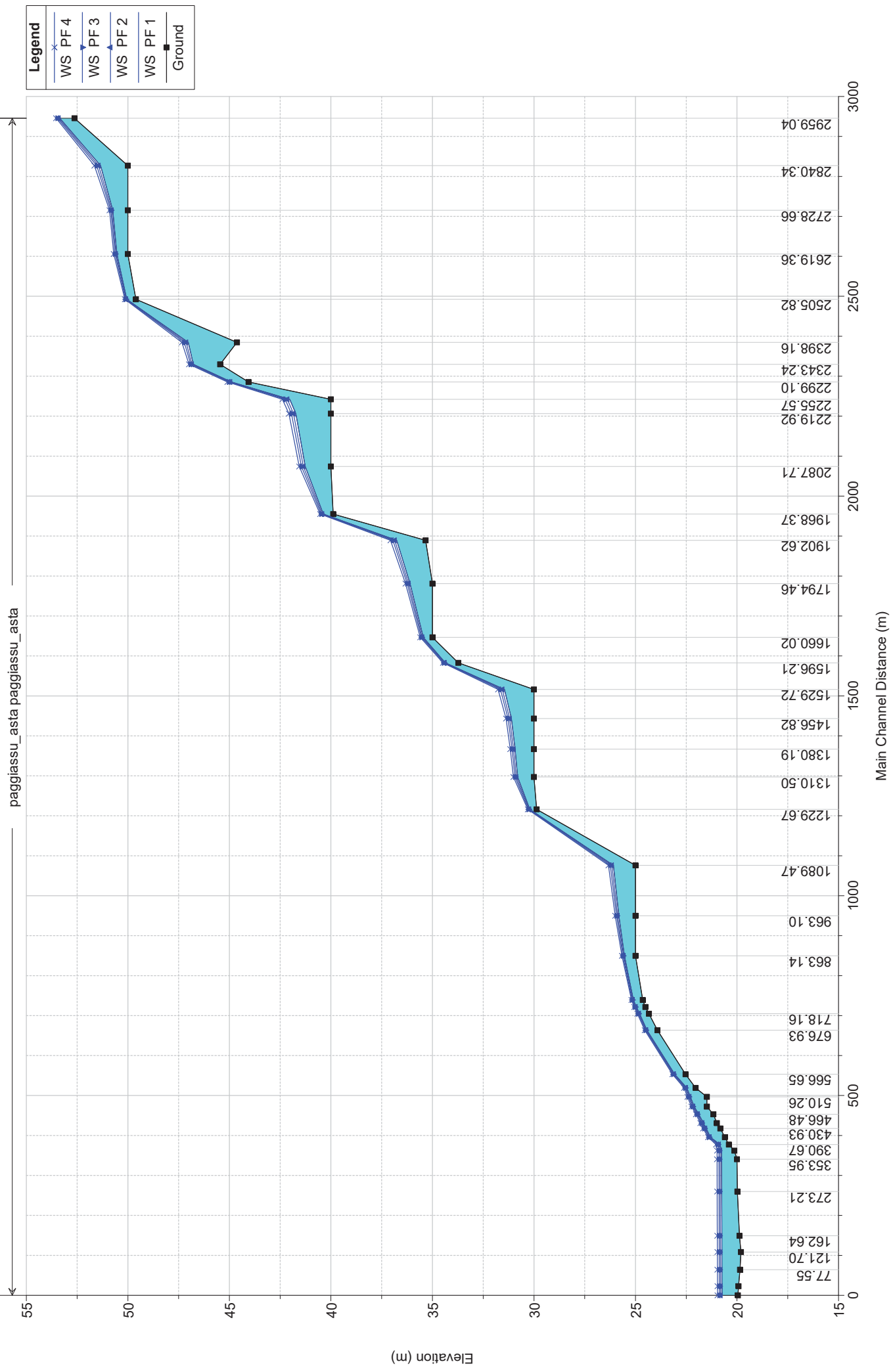
River	Reach	RS	PORTATE mc/s			
			Tr 50	Tr 100	Tr 200	Tr 500
paggiassu_asta	paggiassu_asta	2959.04	38.39	45.35	52.41	61.99

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
paggiassu_asta	paggiassu_asta	all	Normal Depth S = 0.02	Known WS



paggiassu Plan: Plan 04 10/25/2017

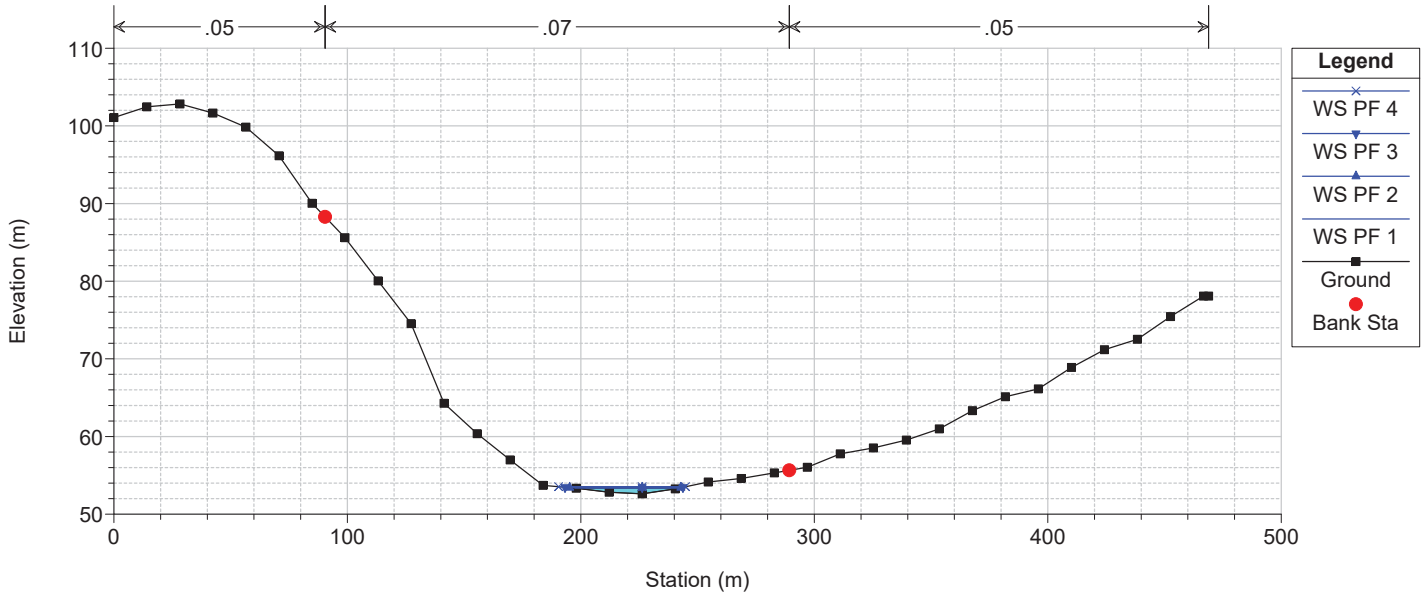
Geom: paggiassu4 Flow: paggiassu COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

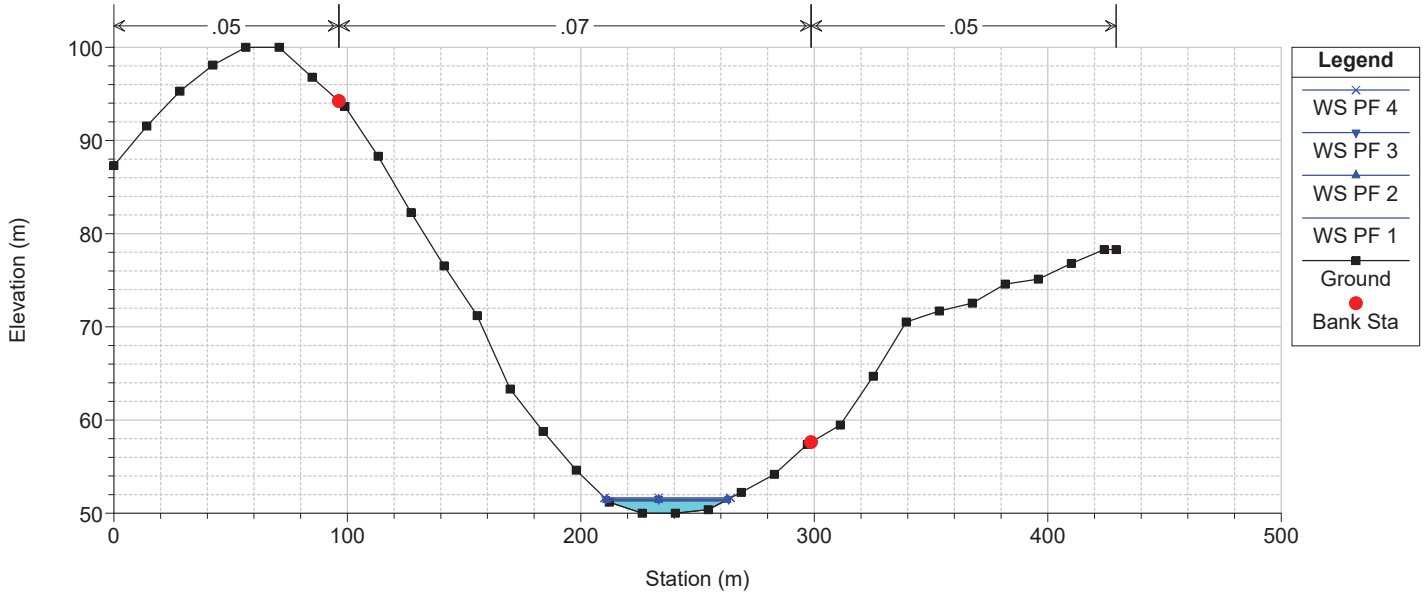
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paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

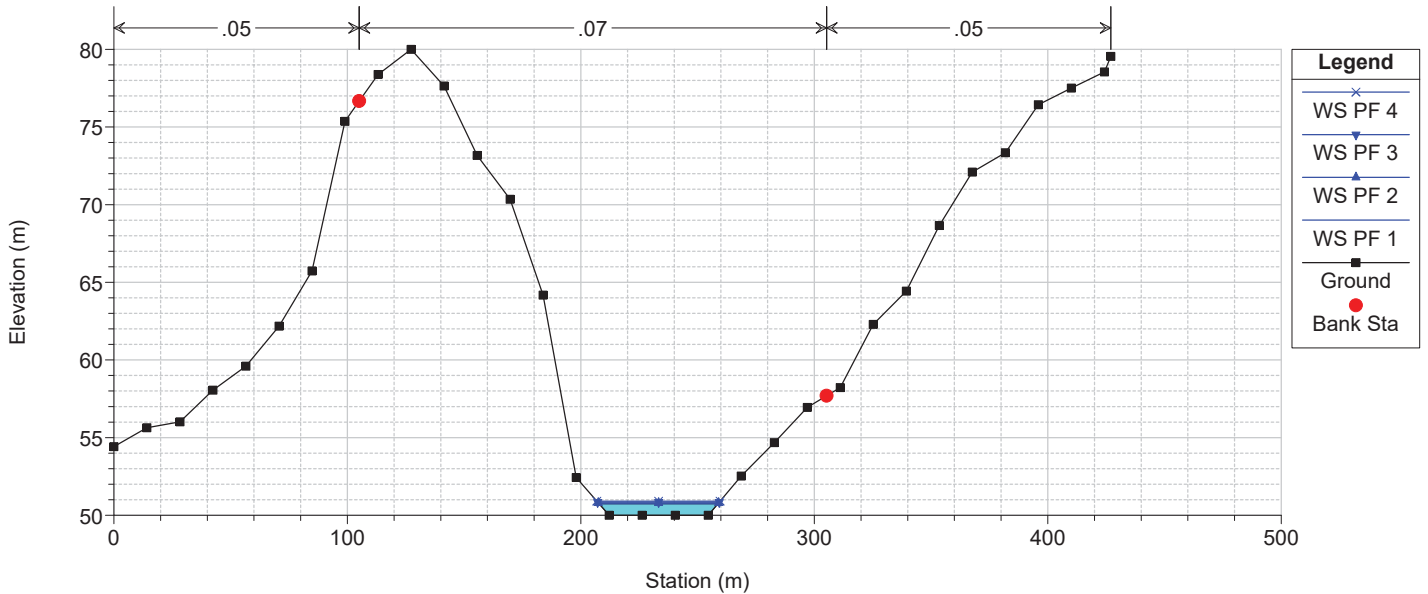
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paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

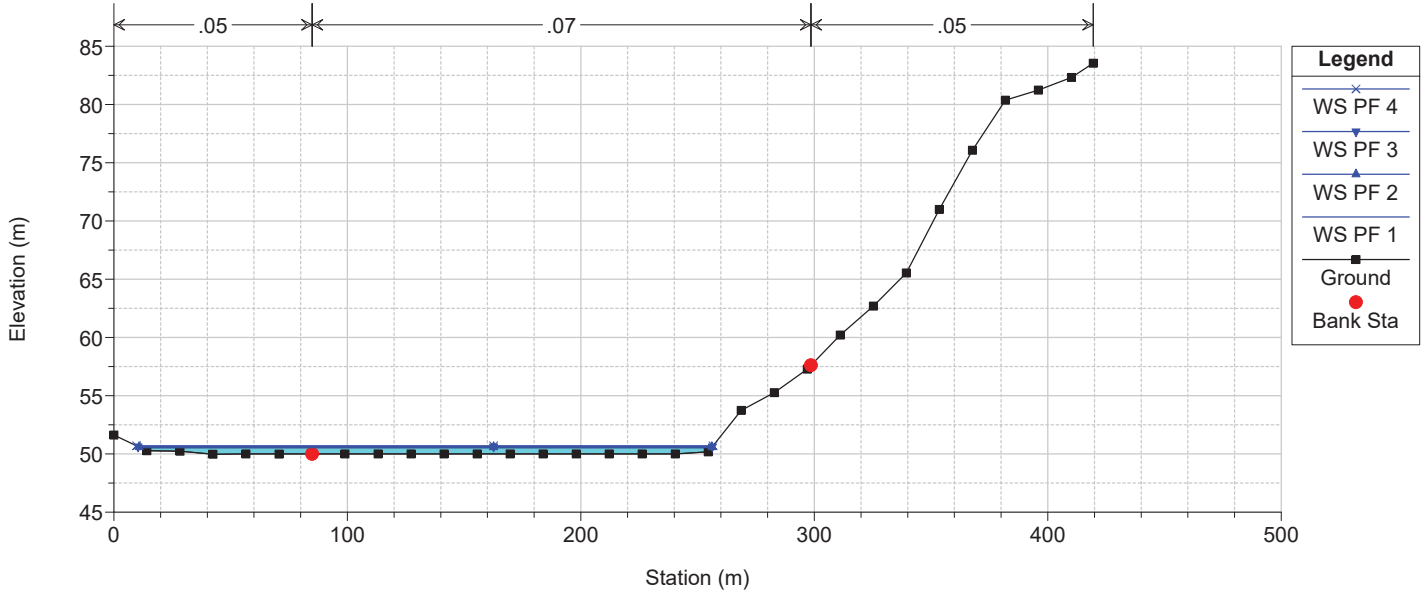
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paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

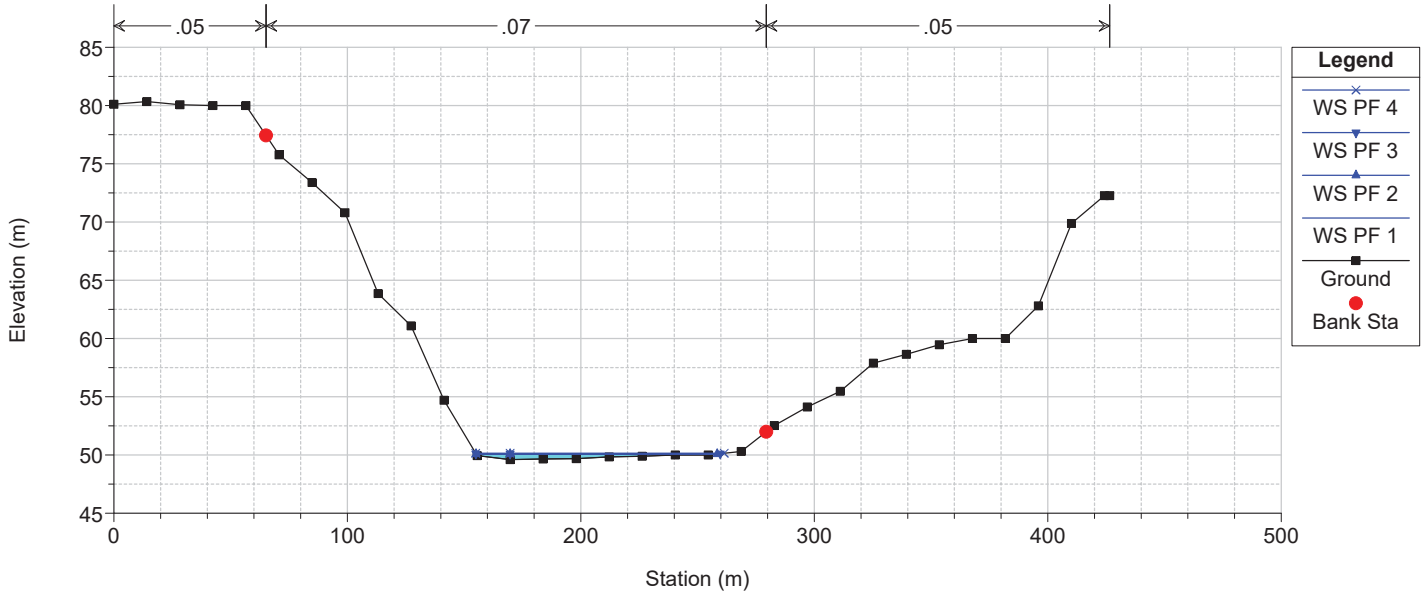
River = paggiassu_asta Reach = paggiassu_asta RS = 2619.36 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

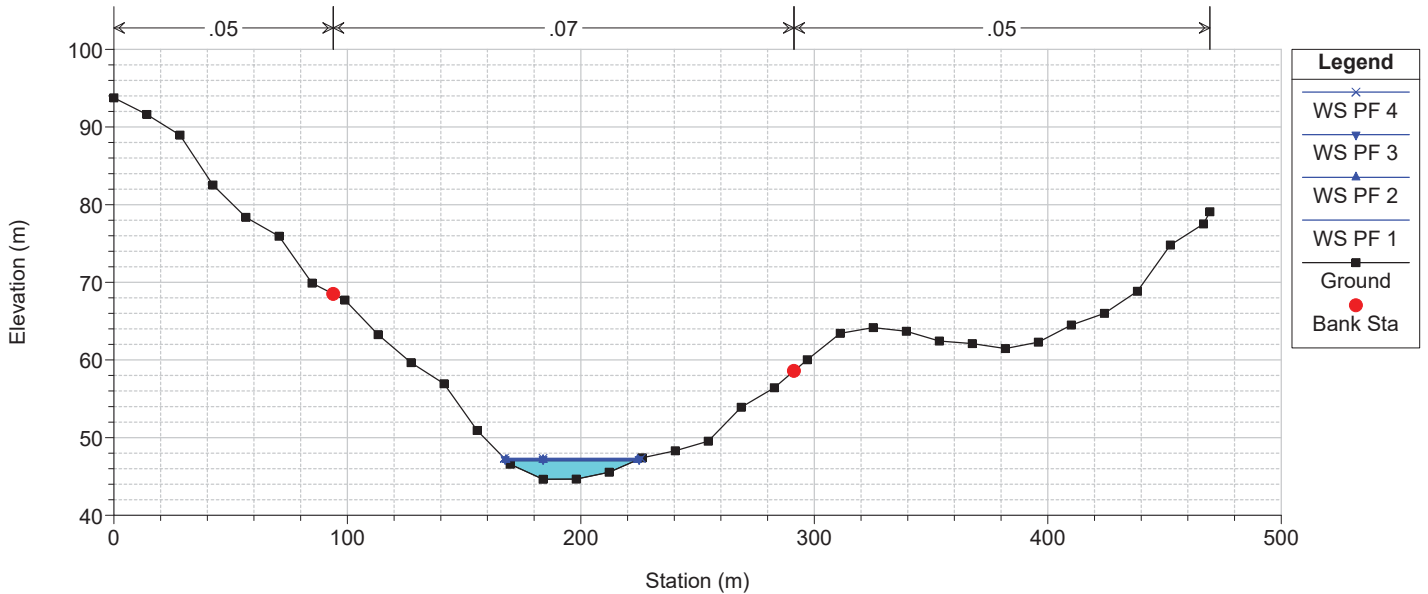
River = paggiassu_asta Reach = paggiassu_asta RS = 2505.82 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

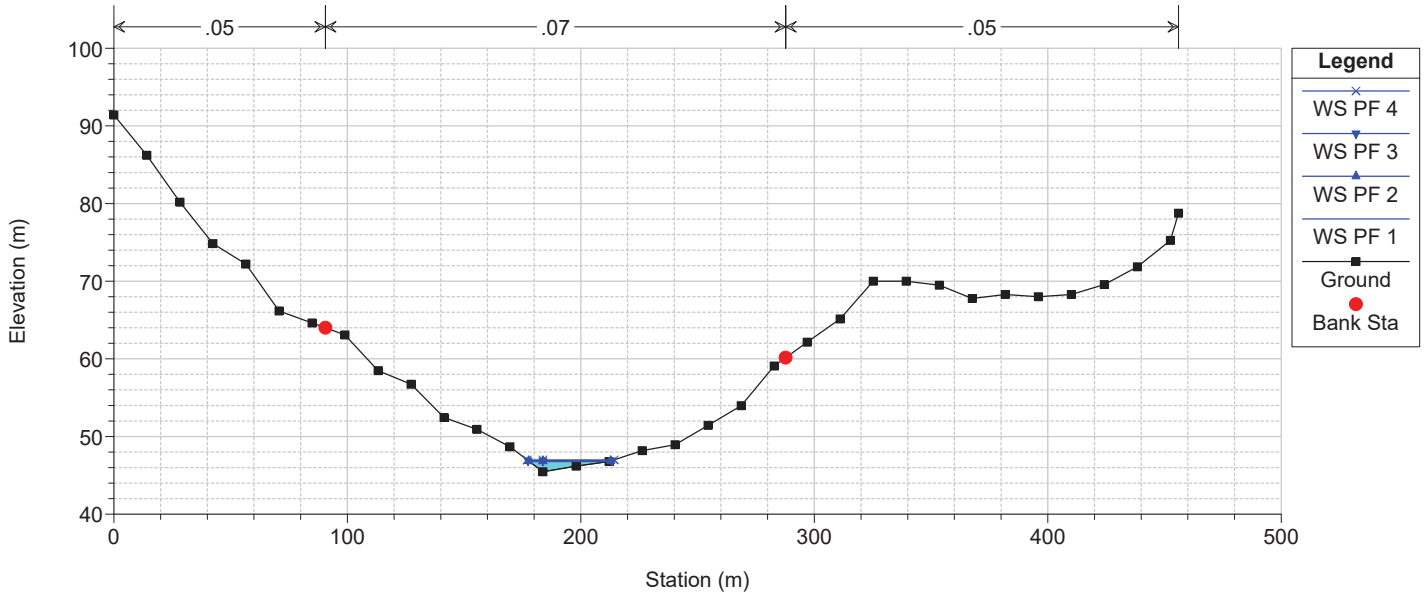
River = paggiassu_asta Reach = paggiassu_asta RS = 2398.16 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

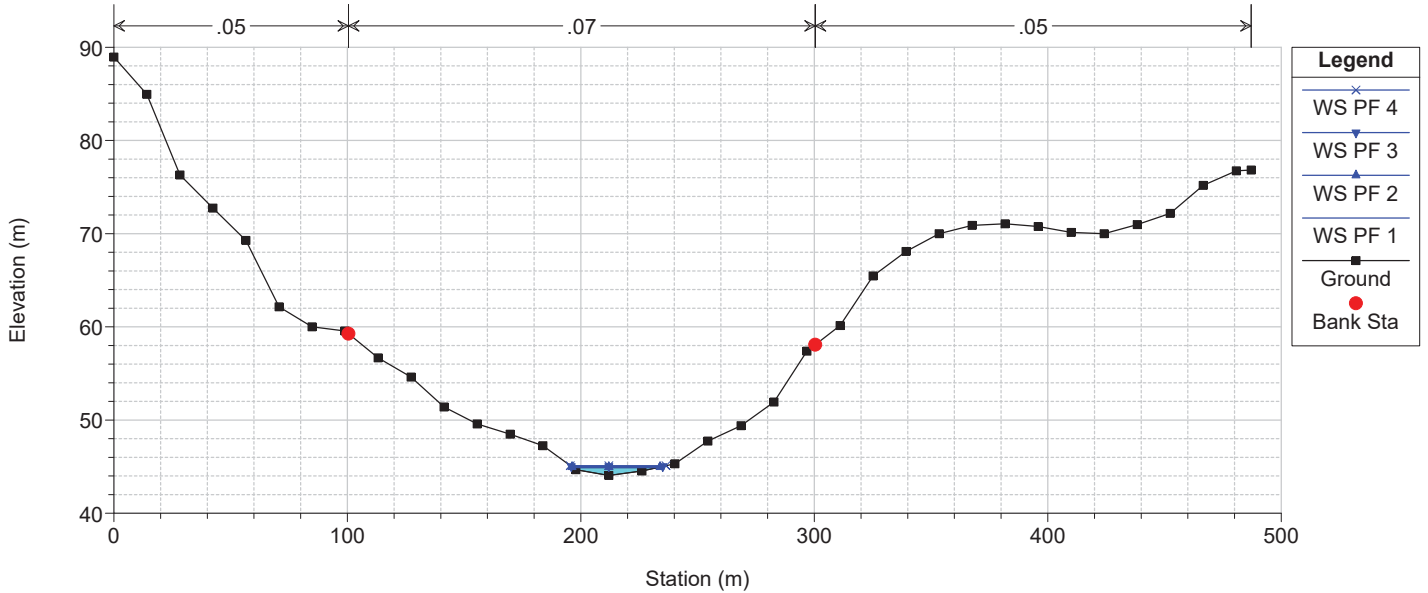
River = paggiassu_asta Reach = paggiassu_asta RS = 2343.24 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

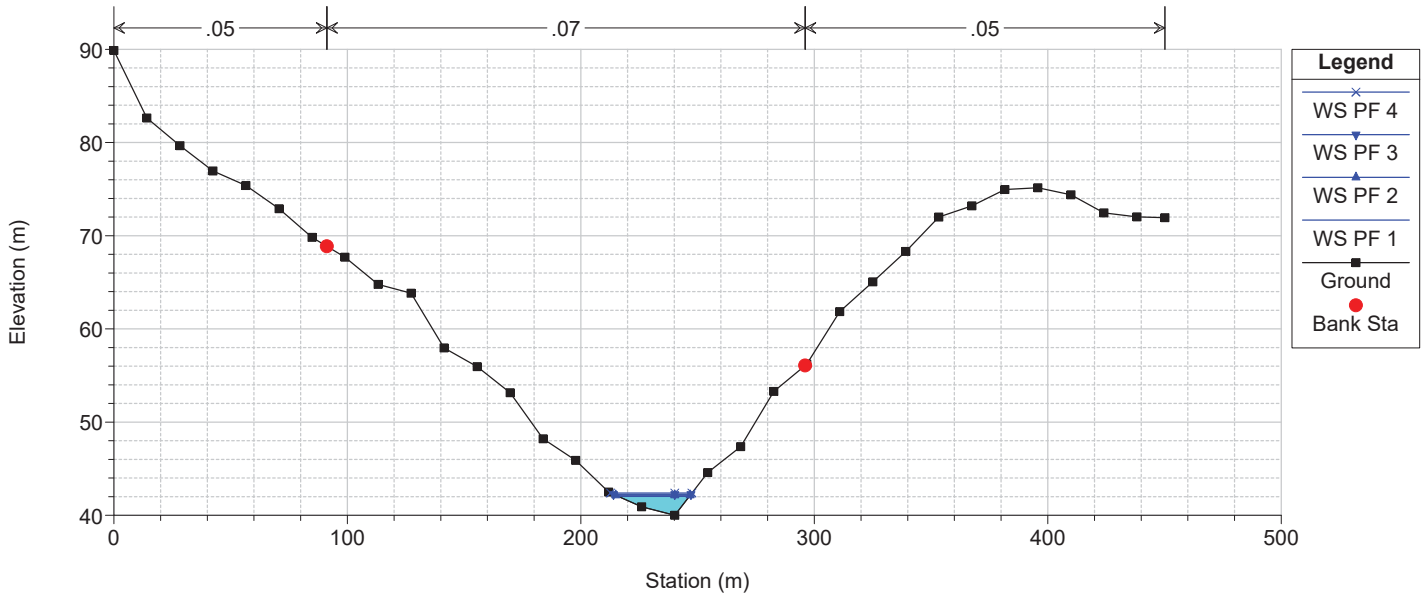
River = paggiassu_asta Reach = paggiassu_asta RS = 2299.10 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

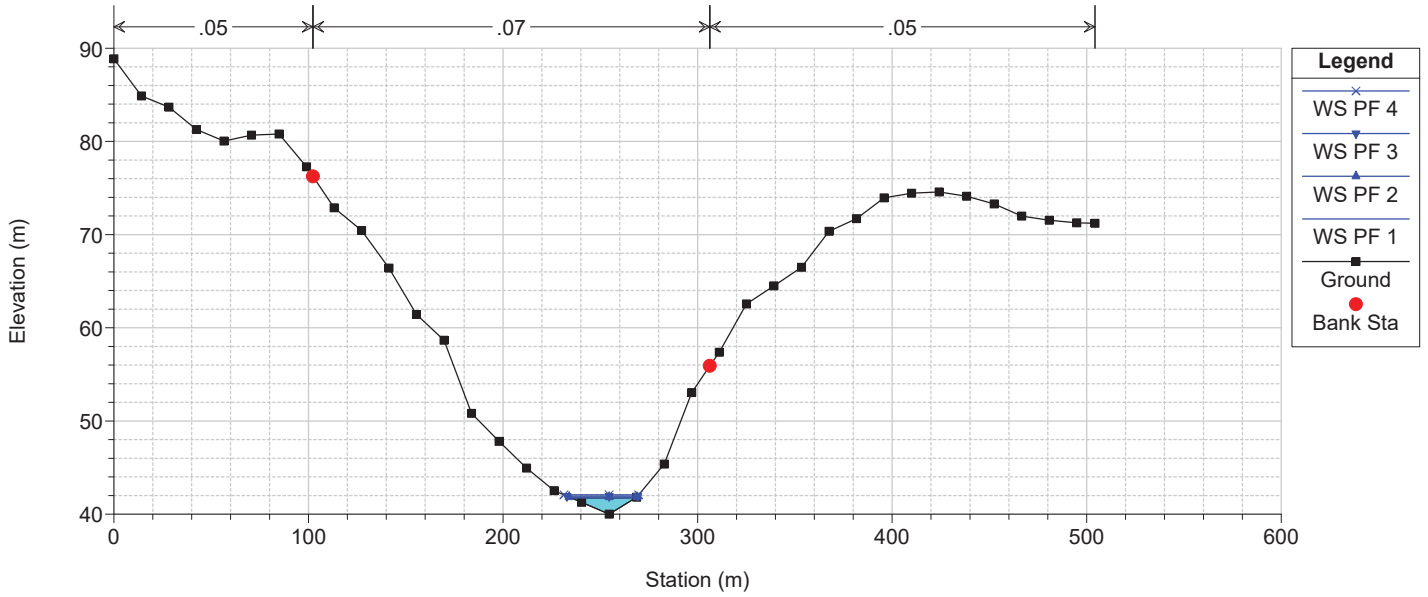
River = paggiassu_asta Reach = paggiassu_asta RS = 2255.57 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

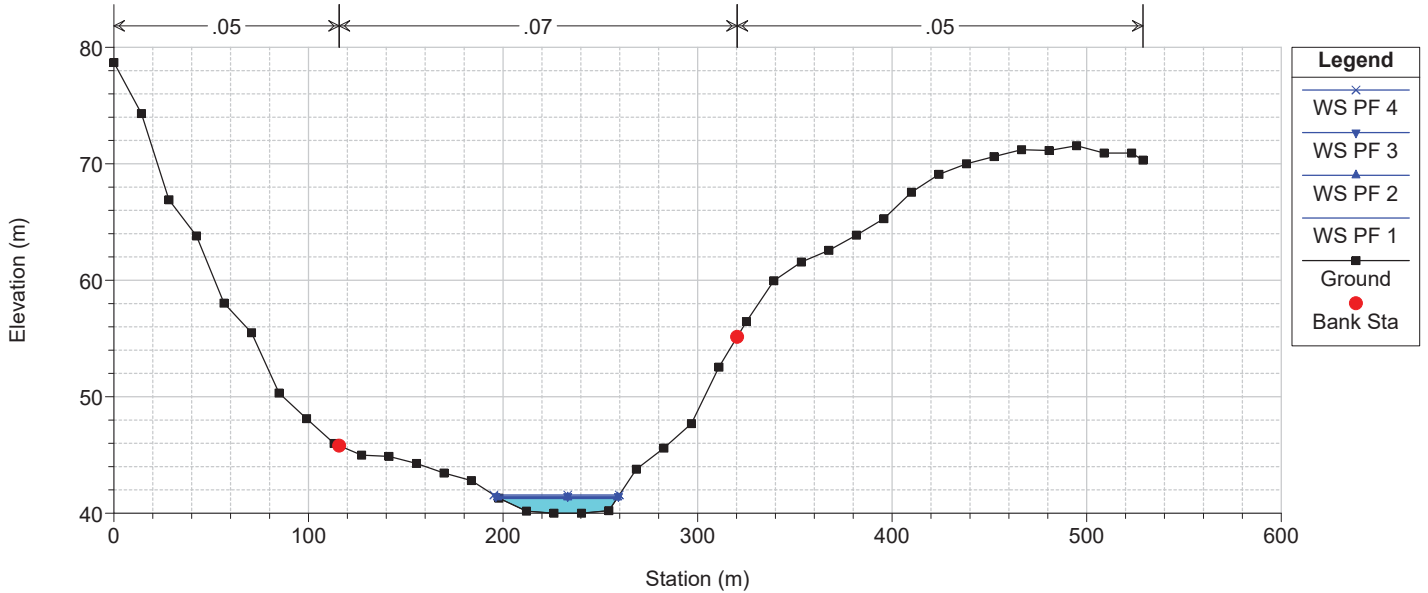
River = paggiassu_asta Reach = paggiassu_asta RS = 2219.92 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

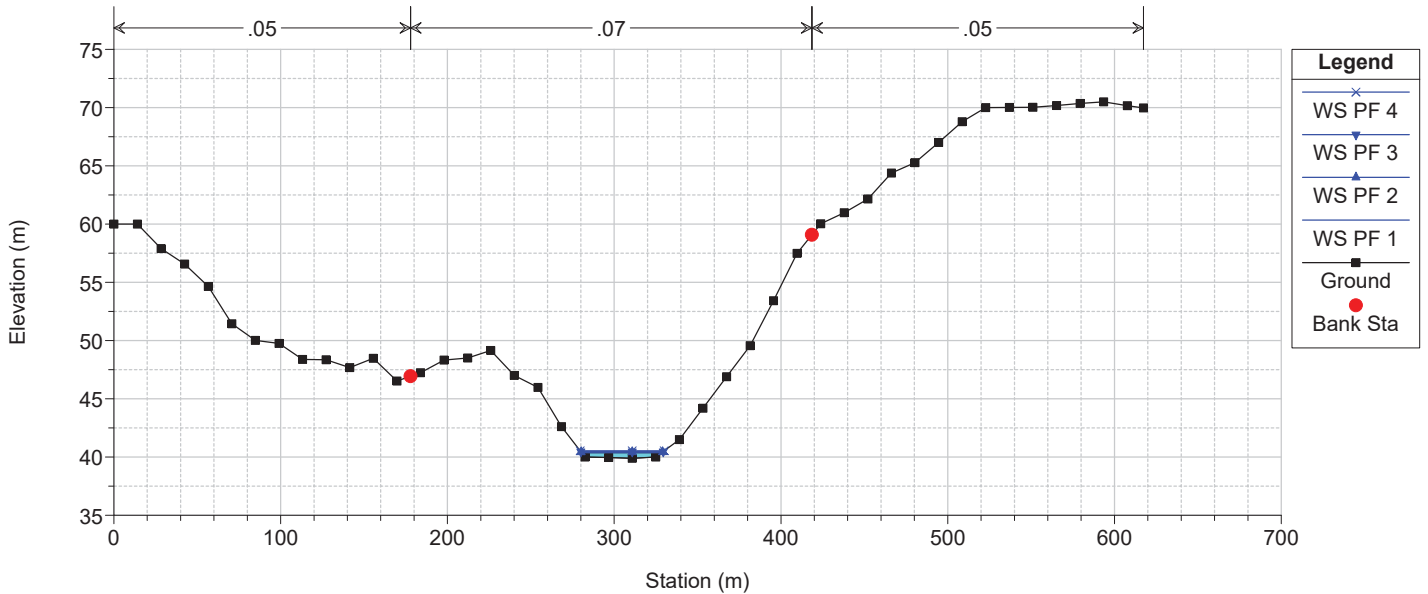
River = paggiassu_asta Reach = paggiassu_asta RS = 2087.71 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

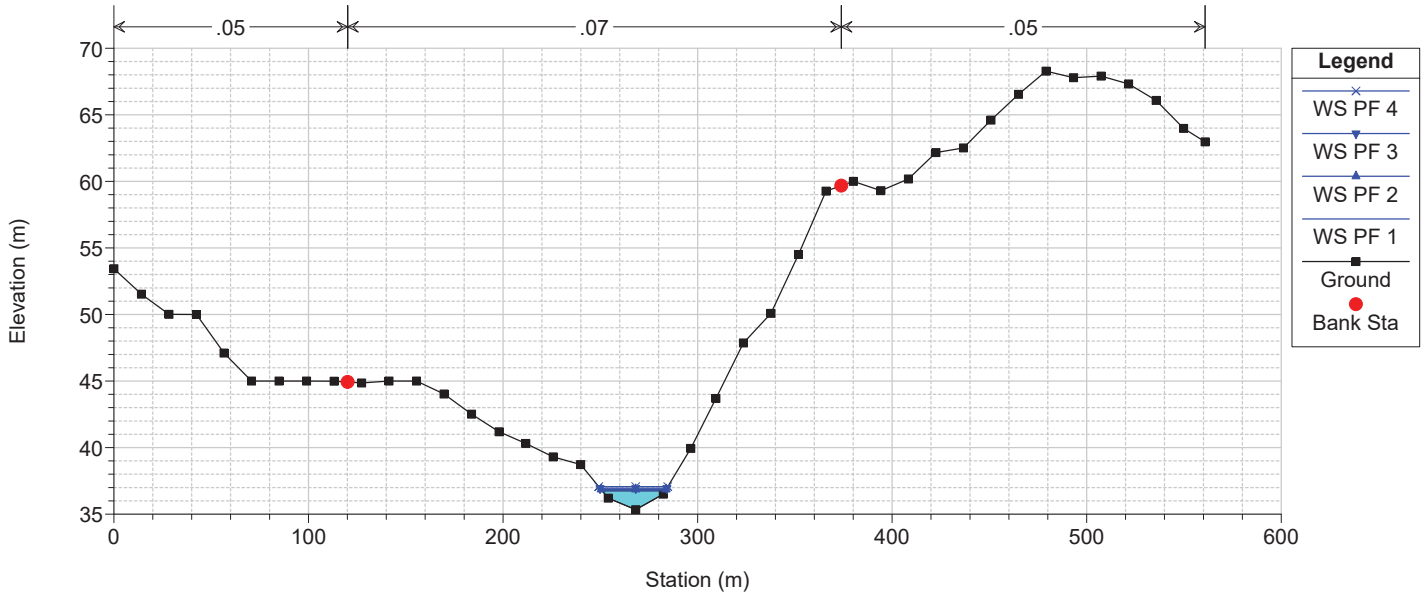
River = paggiassu_asta Reach = paggiassu_asta RS = 1968.37 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

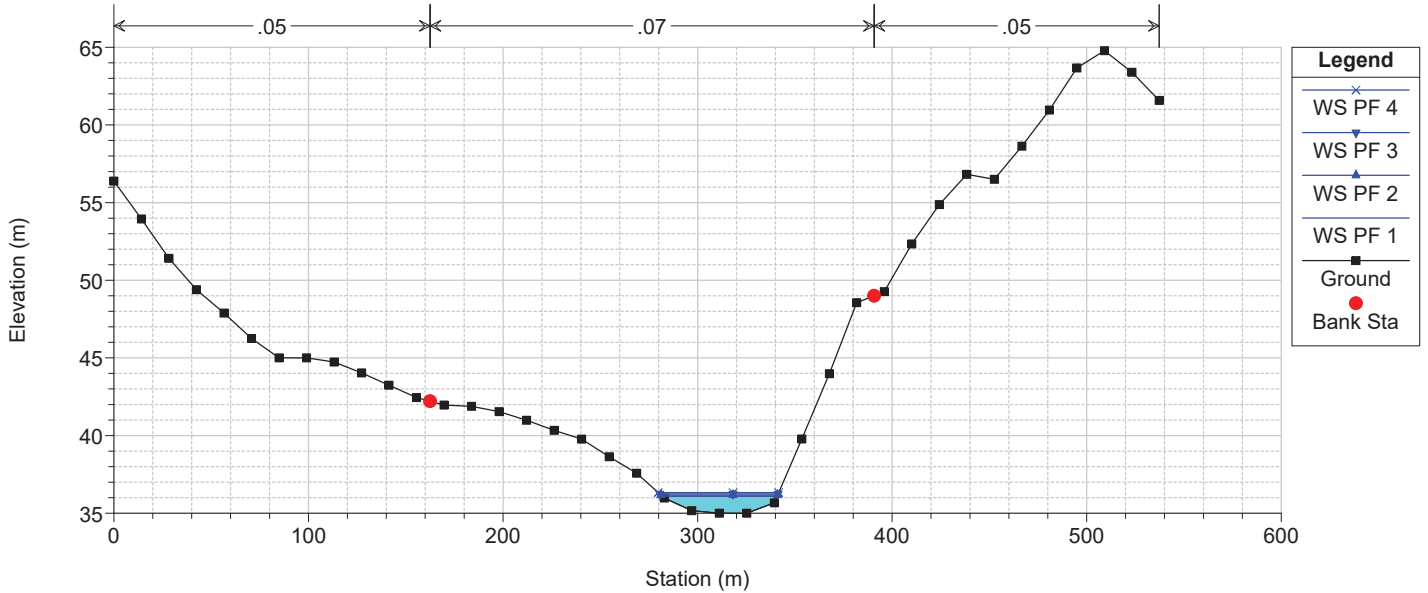
River = paggiassu_asta Reach = paggiassu_asta RS = 1902.62 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

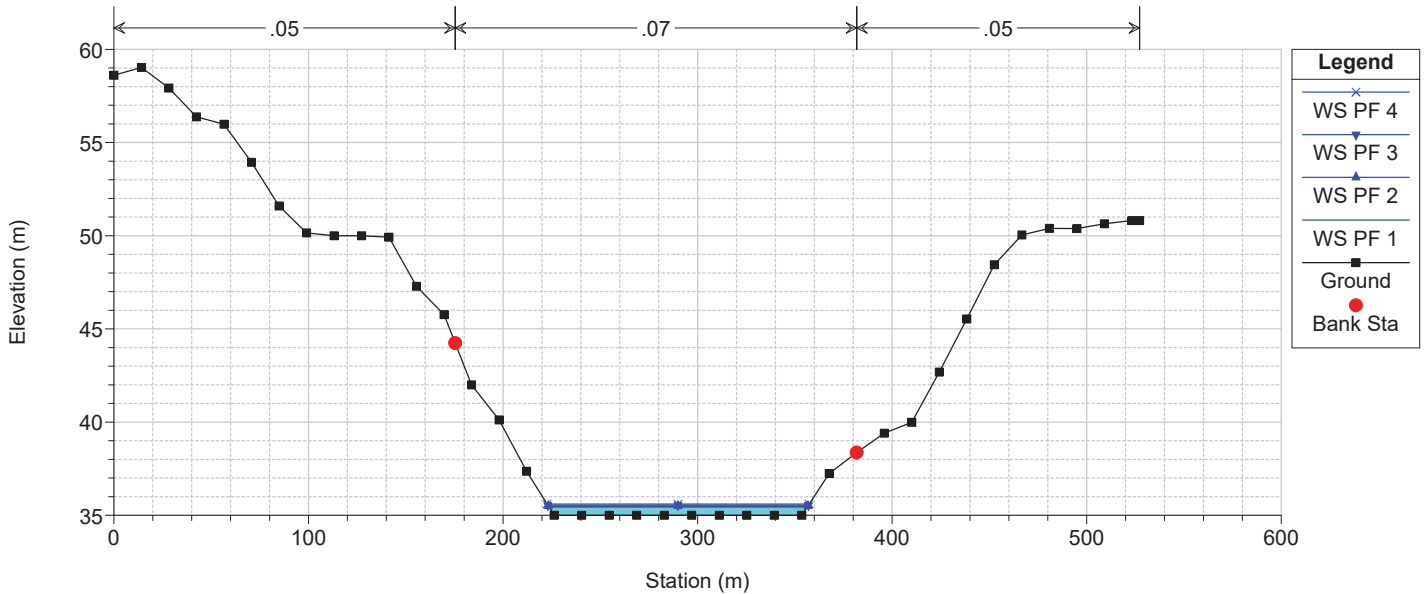
River = paggiassu_asta Reach = paggiassu_asta RS = 1794.46 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

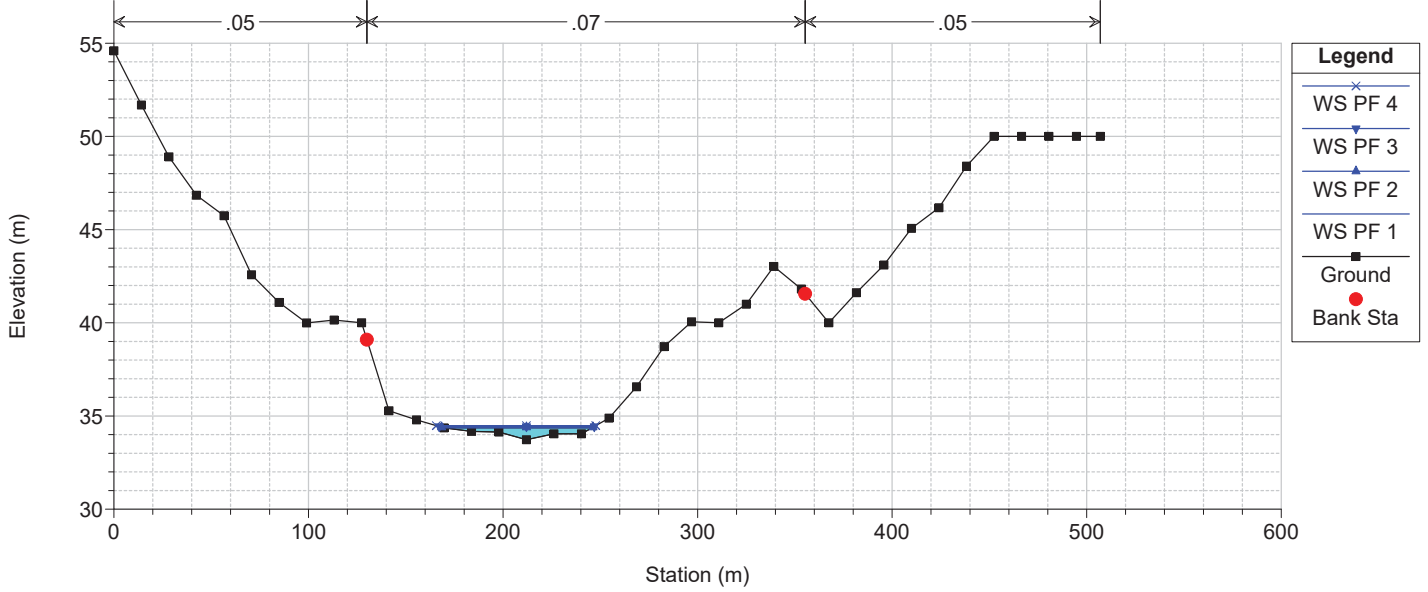
River = paggiassu_asta Reach = paggiassu_asta RS = 1660.02 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

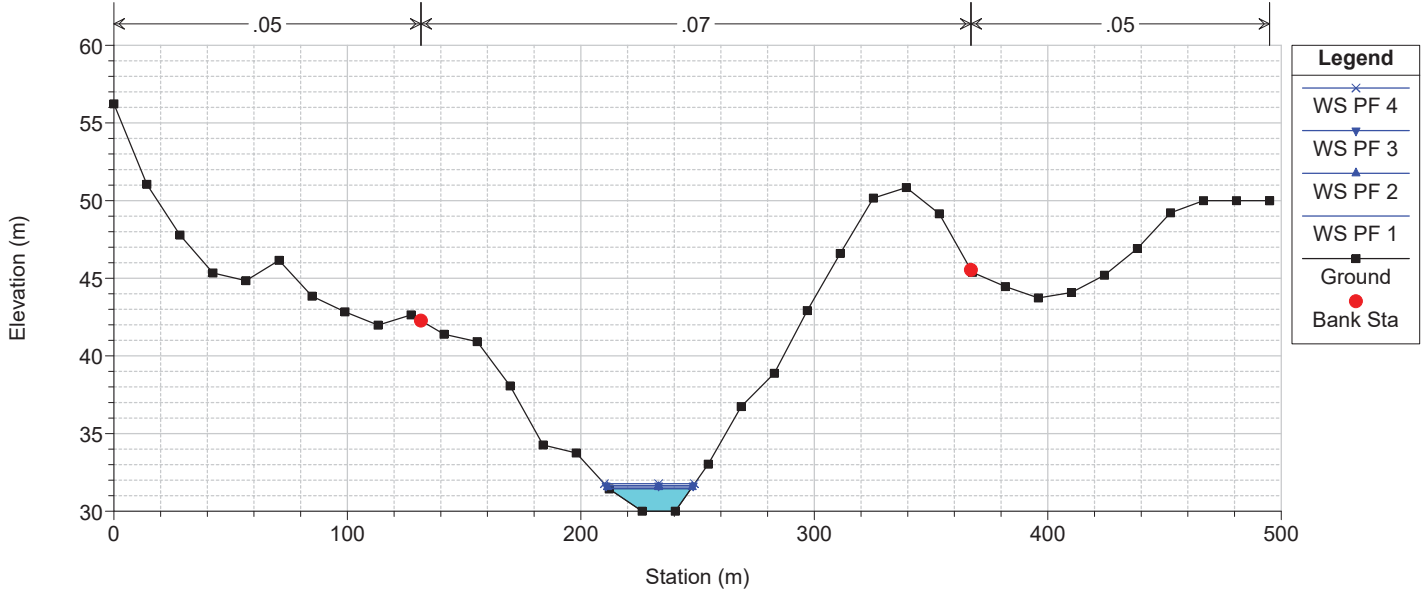
River = paggiassu_asta Reach = paggiassu_asta RS = 1596.21 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

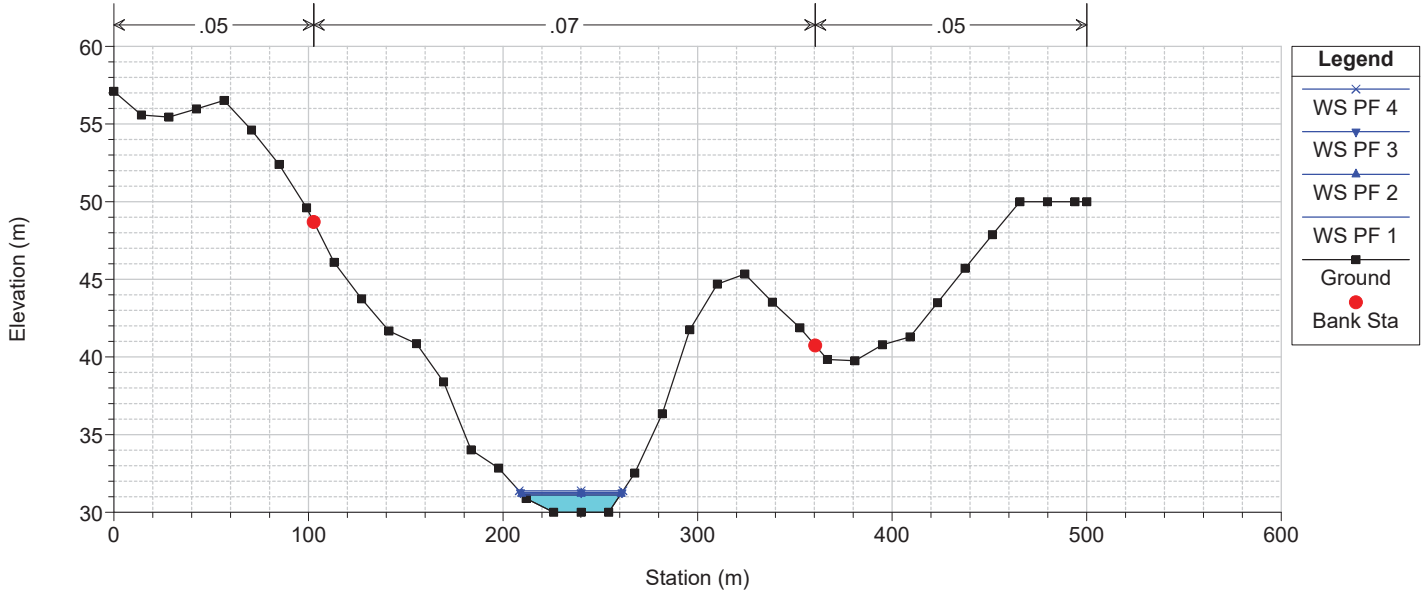
River = paggiassu_asta Reach = paggiassu_asta RS = 1529.72 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

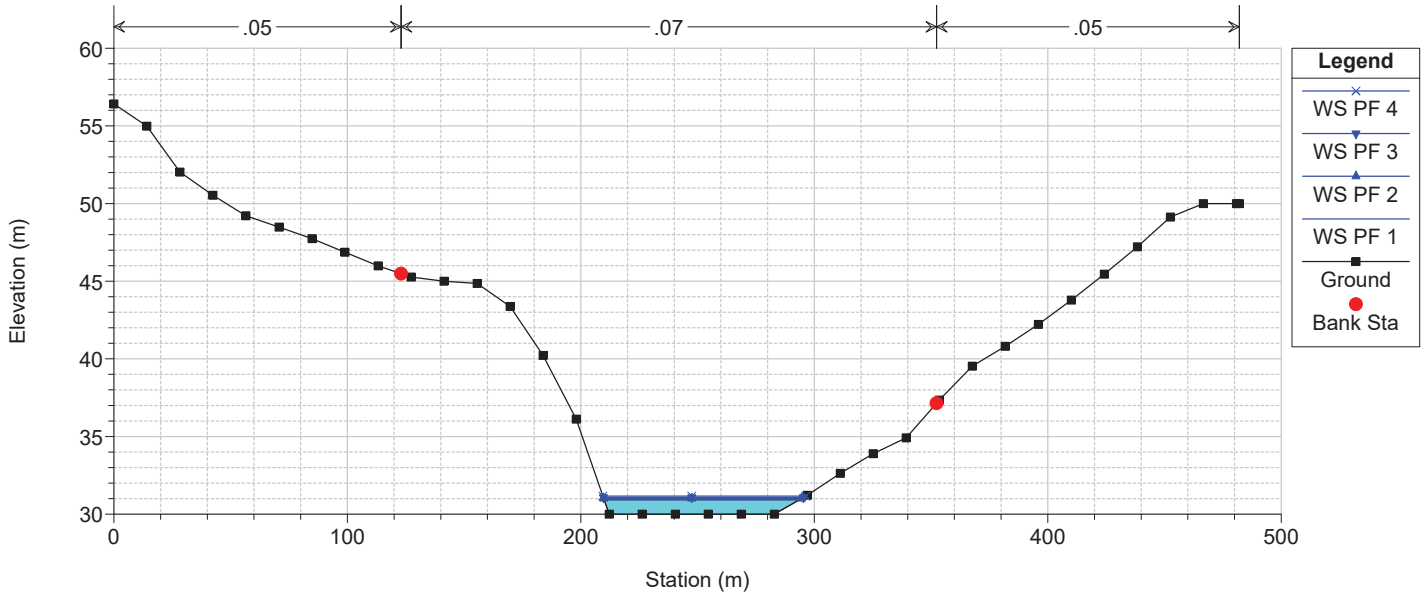
River = paggiassu_asta Reach = paggiassu_asta RS = 1456.82 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

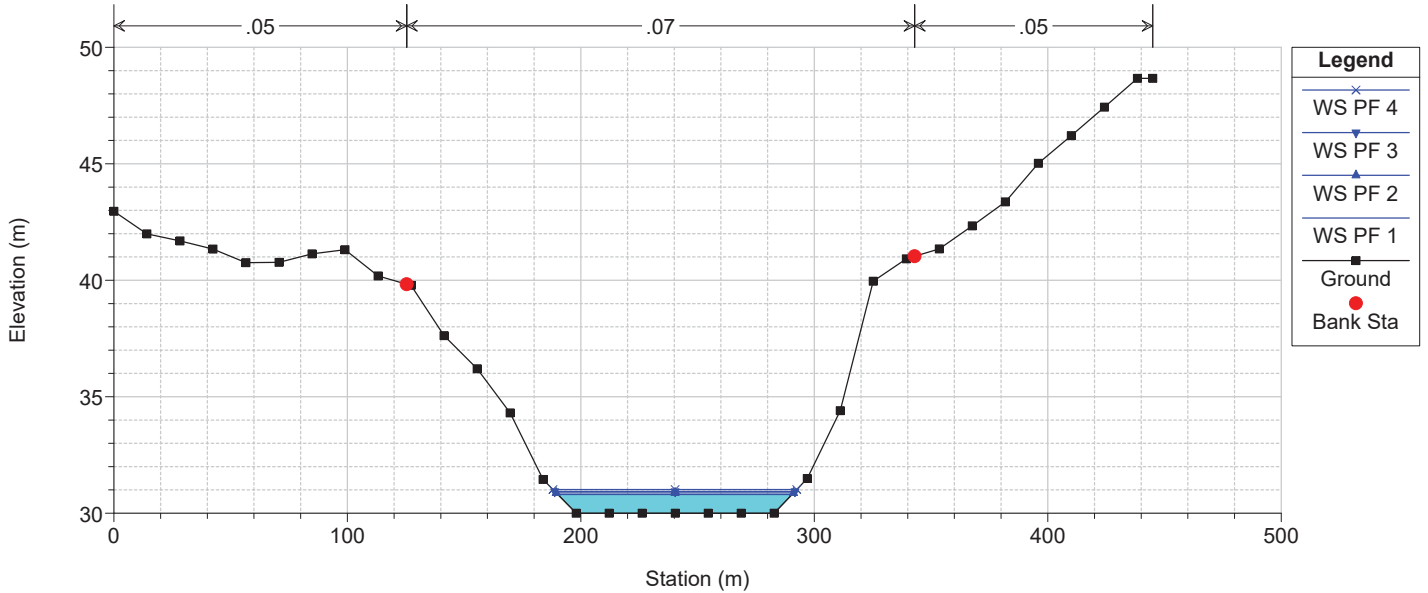
River = paggiassu_asta Reach = paggiassu_asta RS = 1380.19 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

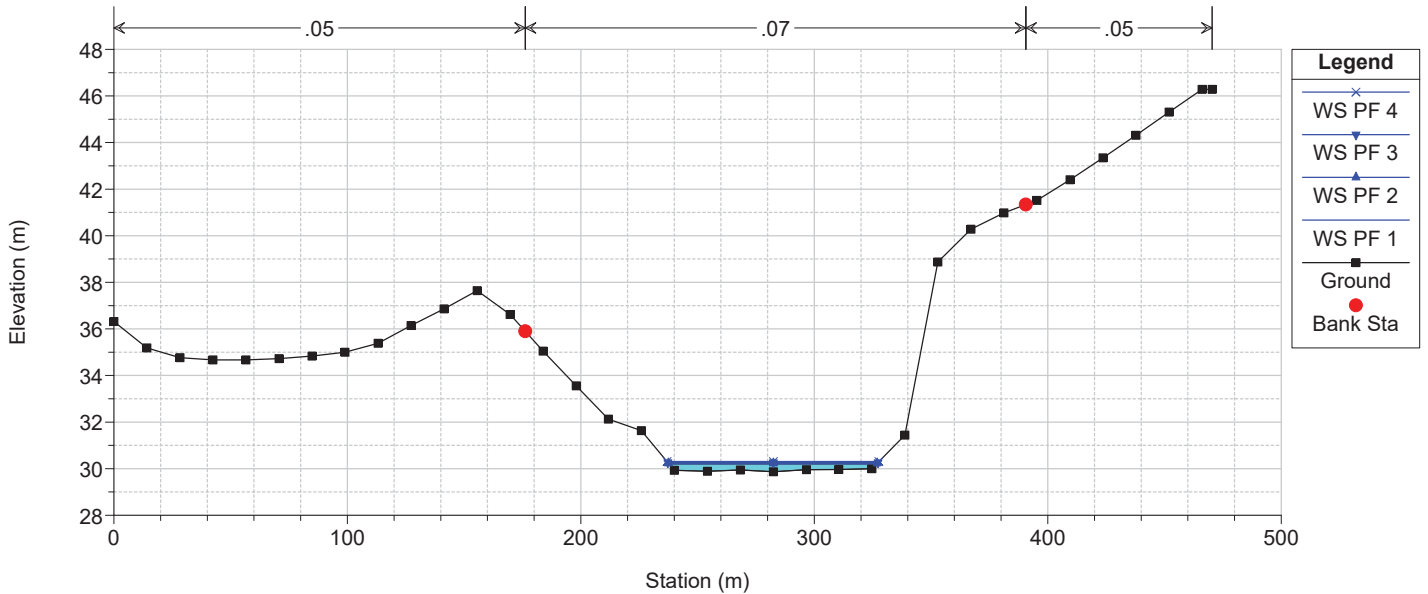
River = paggiassu_asta Reach = paggiassu_asta RS = 1310.50 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

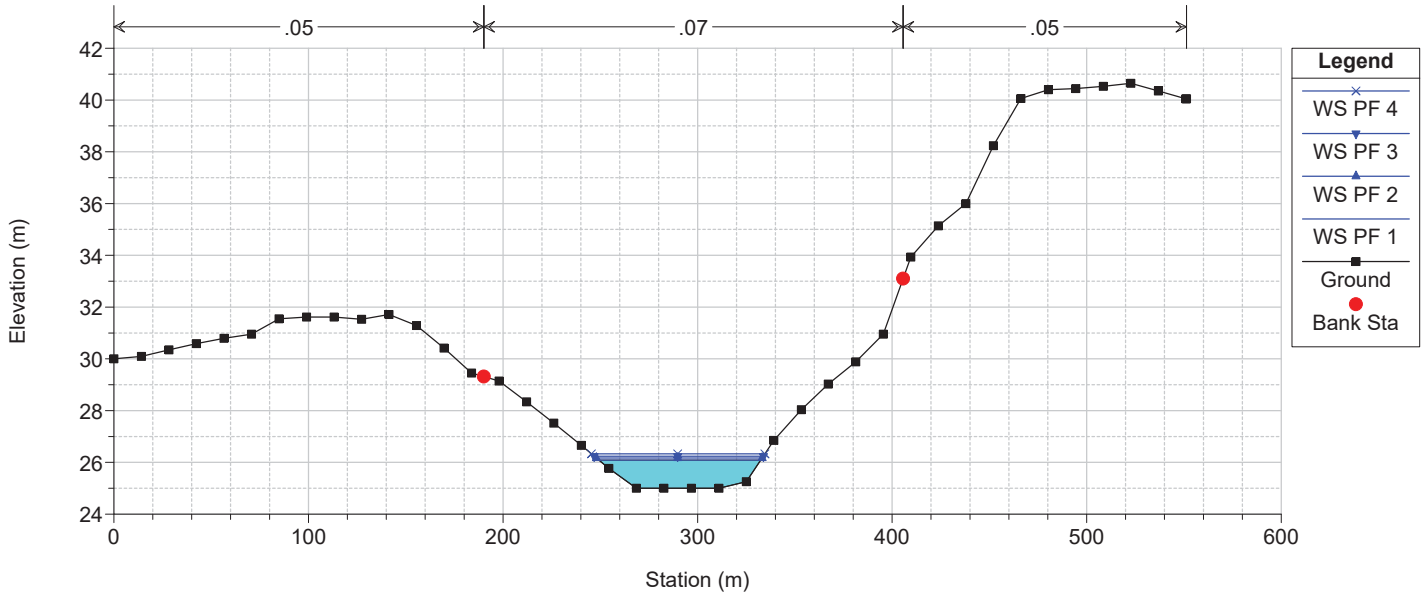
River = paggiassu_asta Reach = paggiassu_asta RS = 1229.67 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

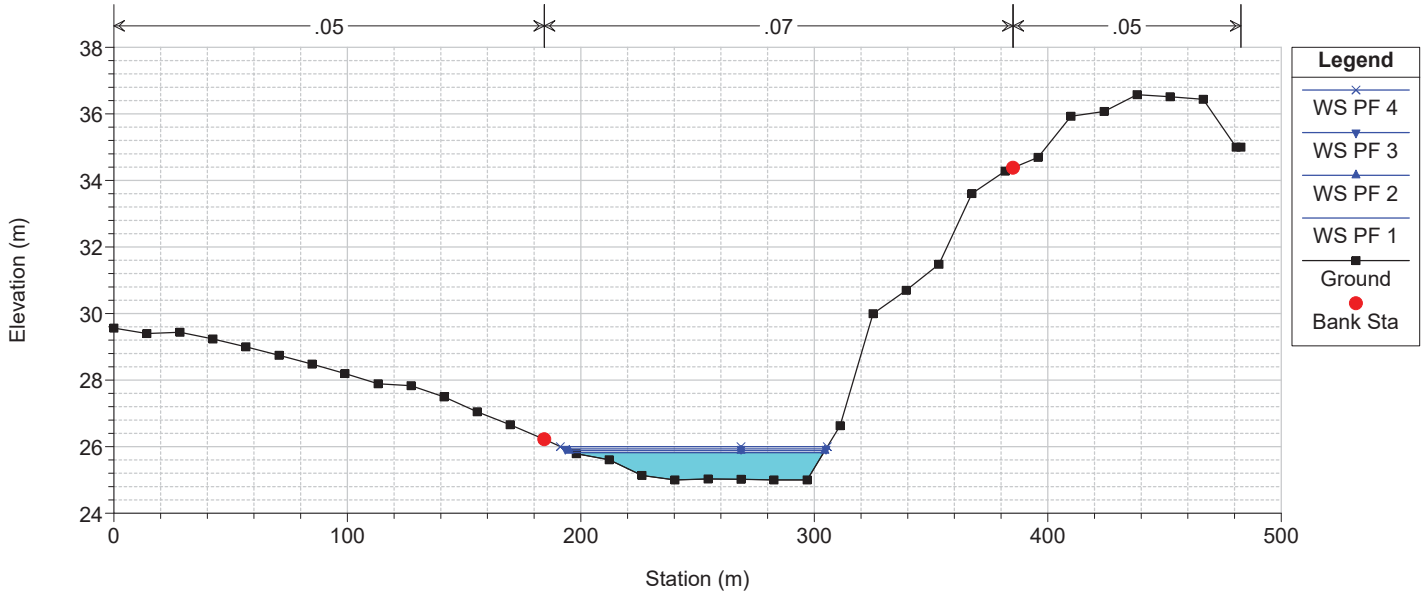
River = paggiassu_asta Reach = paggiassu_asta RS = 1089.47 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

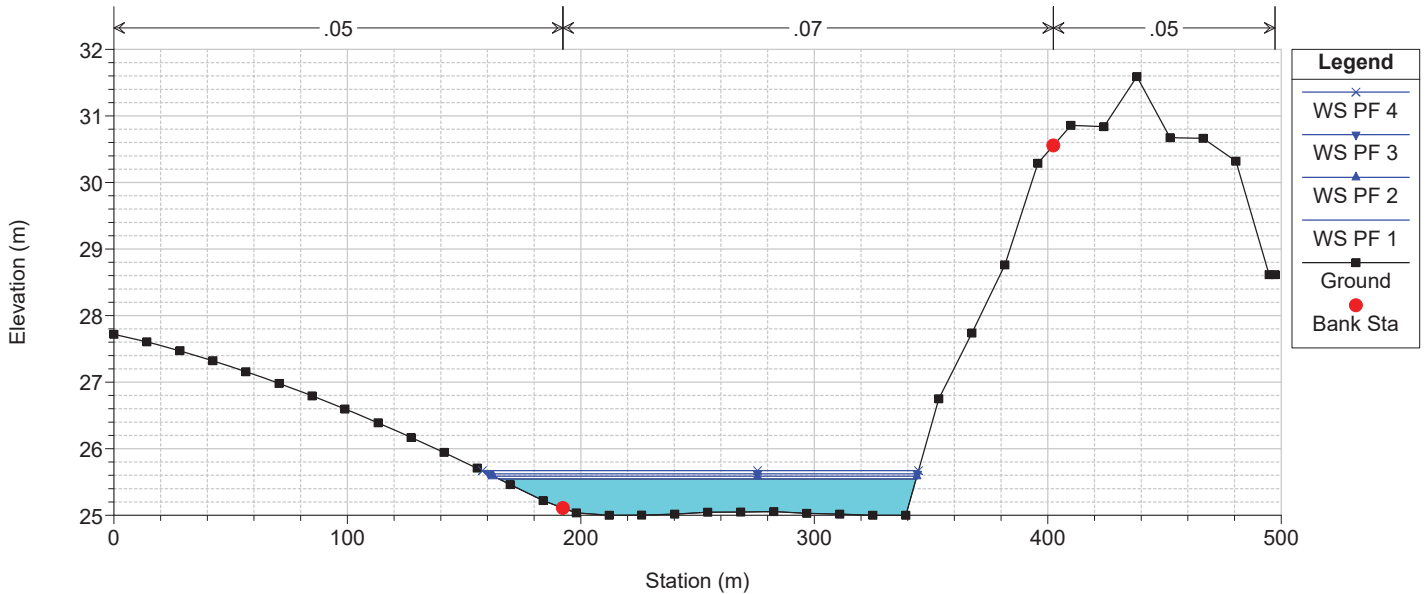
River = paggiassu_asta Reach = paggiassu_asta RS = 963.10 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

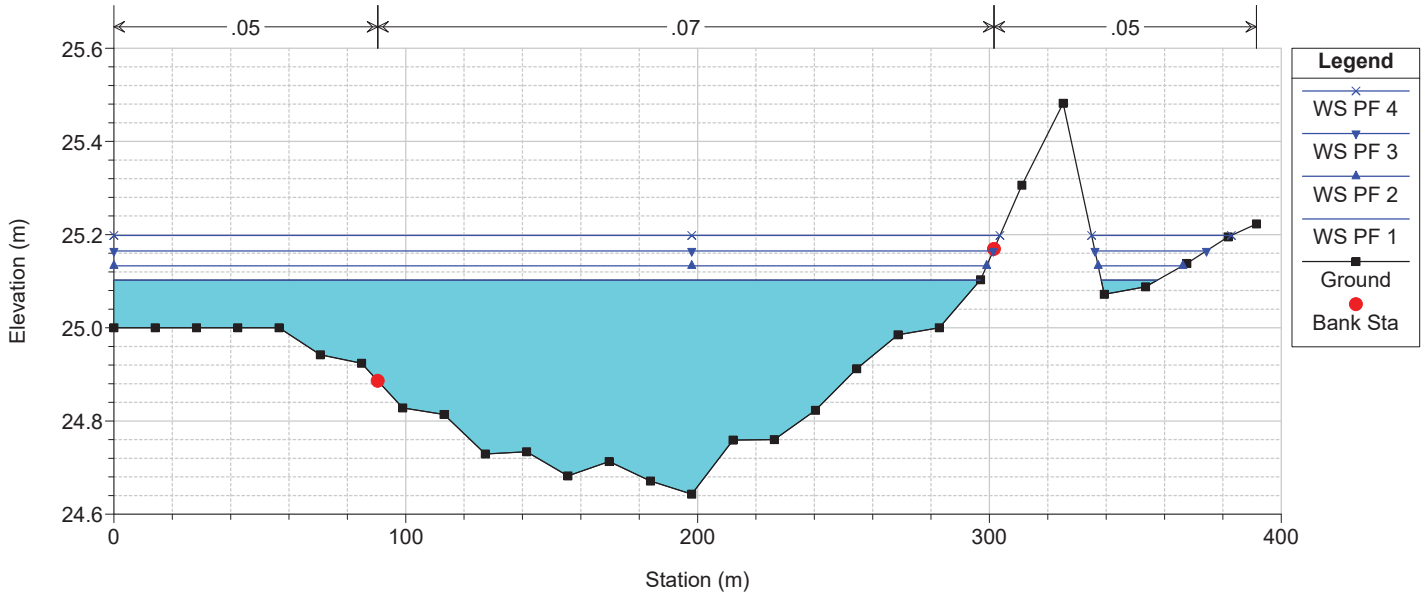
River = paggiassu_asta Reach = paggiassu_asta RS = 863.14 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

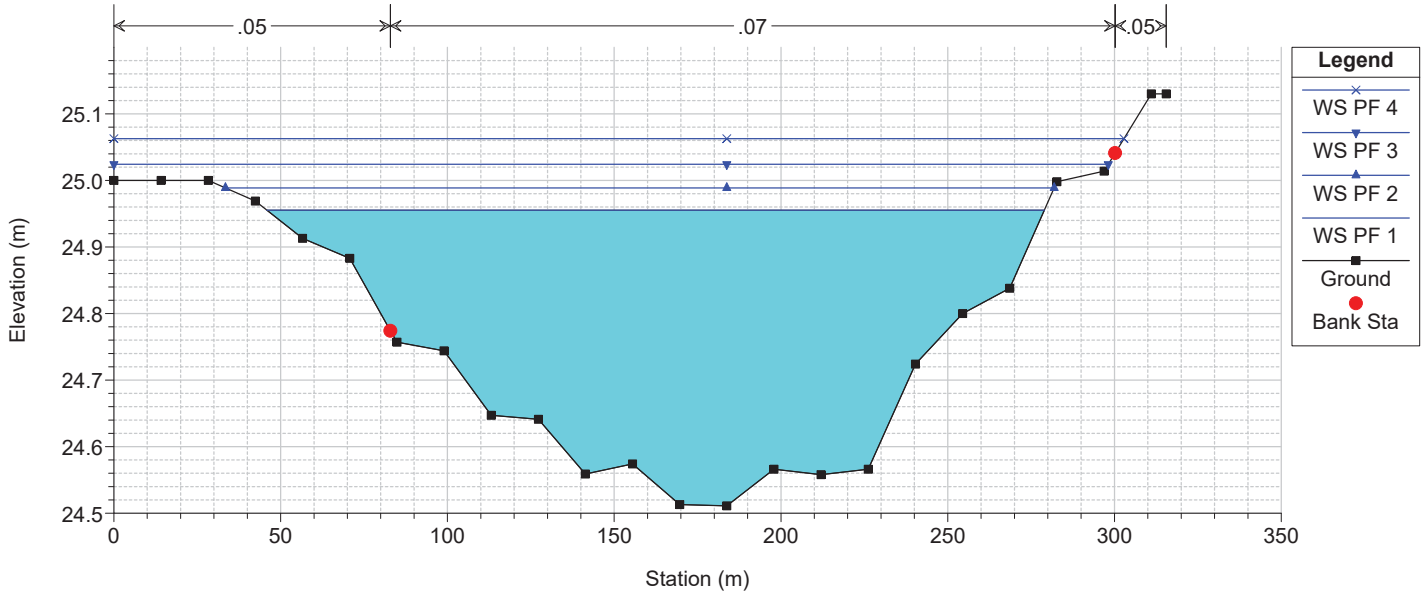
River = paggiassu_asta Reach = paggiassu_asta RS = 752.63 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

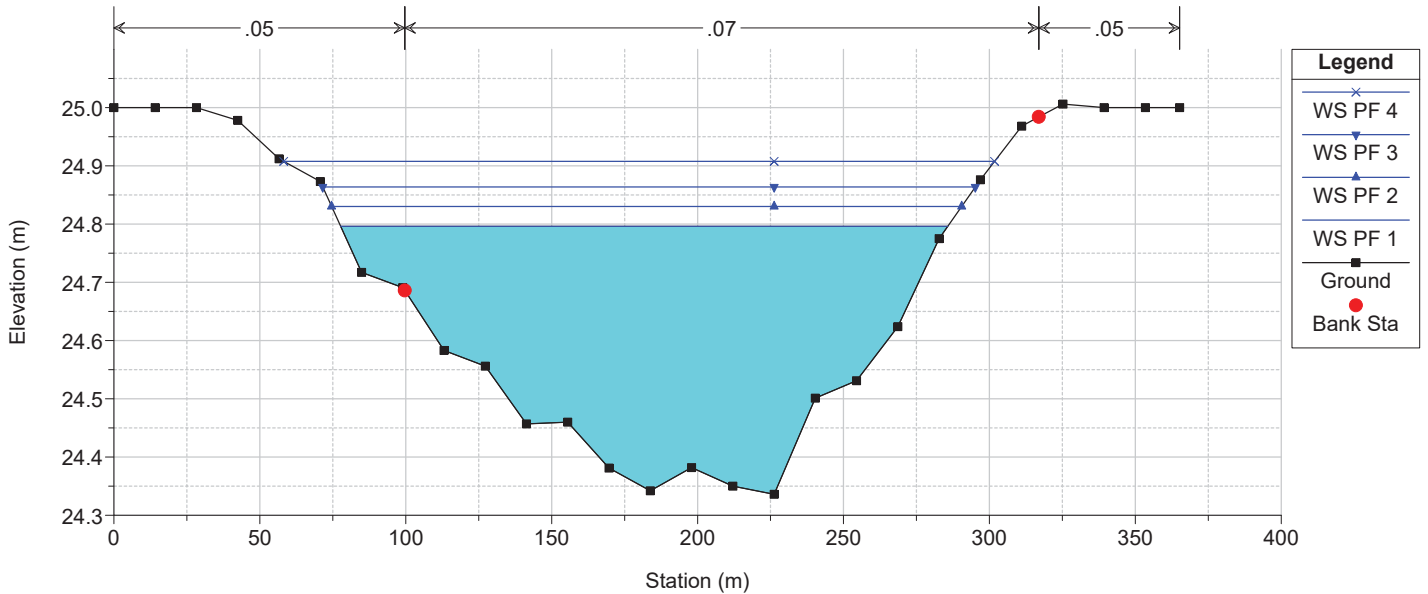
River = paggiassu_asta Reach = paggiassu_asta RS = 734.91 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

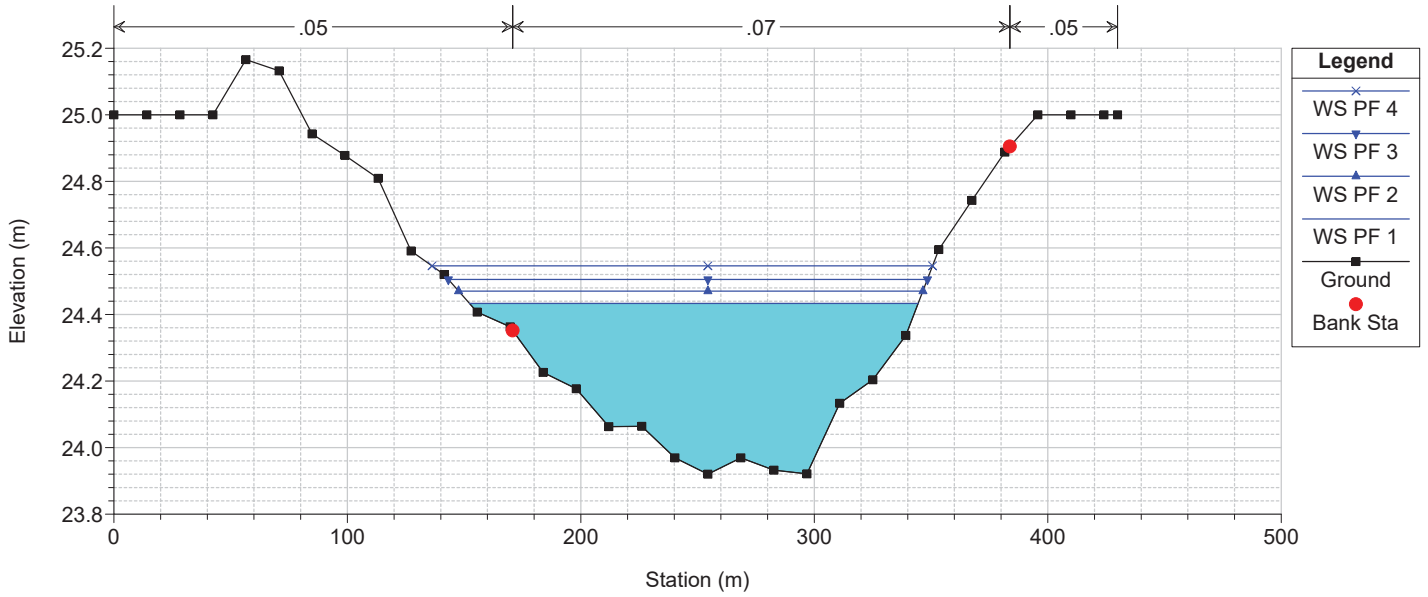
River = paggiassu_asta Reach = paggiassu_asta RS = 718.16 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

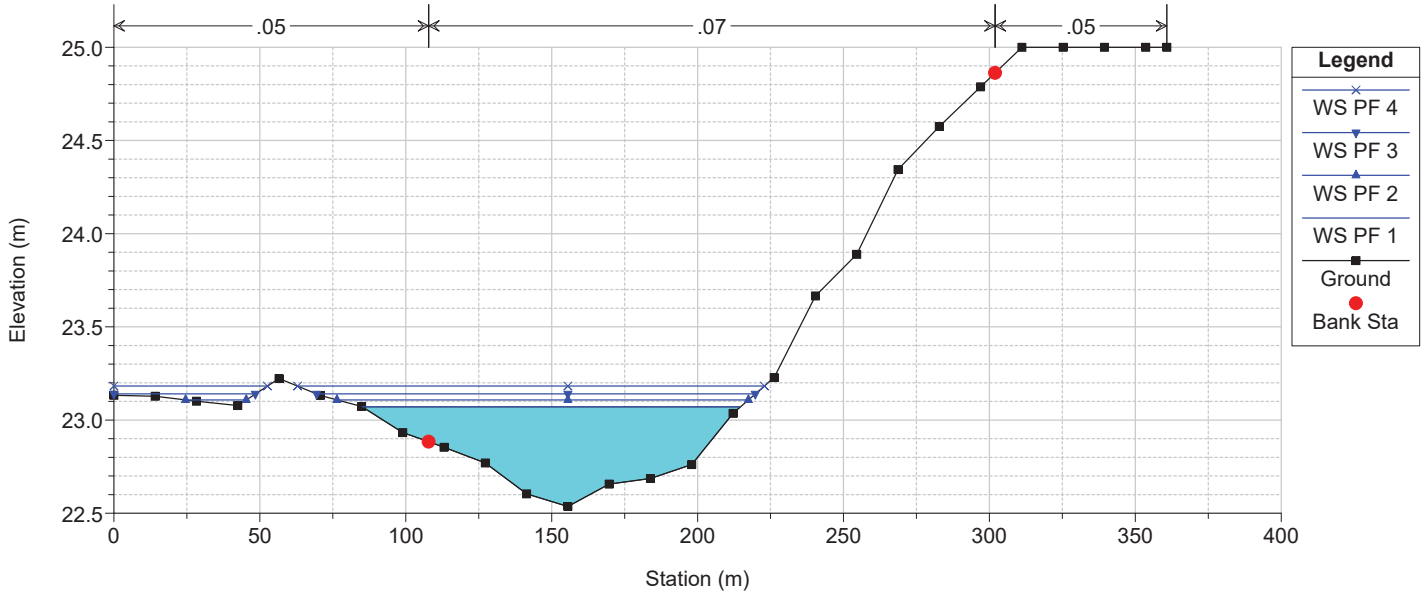
River = paggiassu_asta Reach = paggiassu_asta RS = 676.93 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

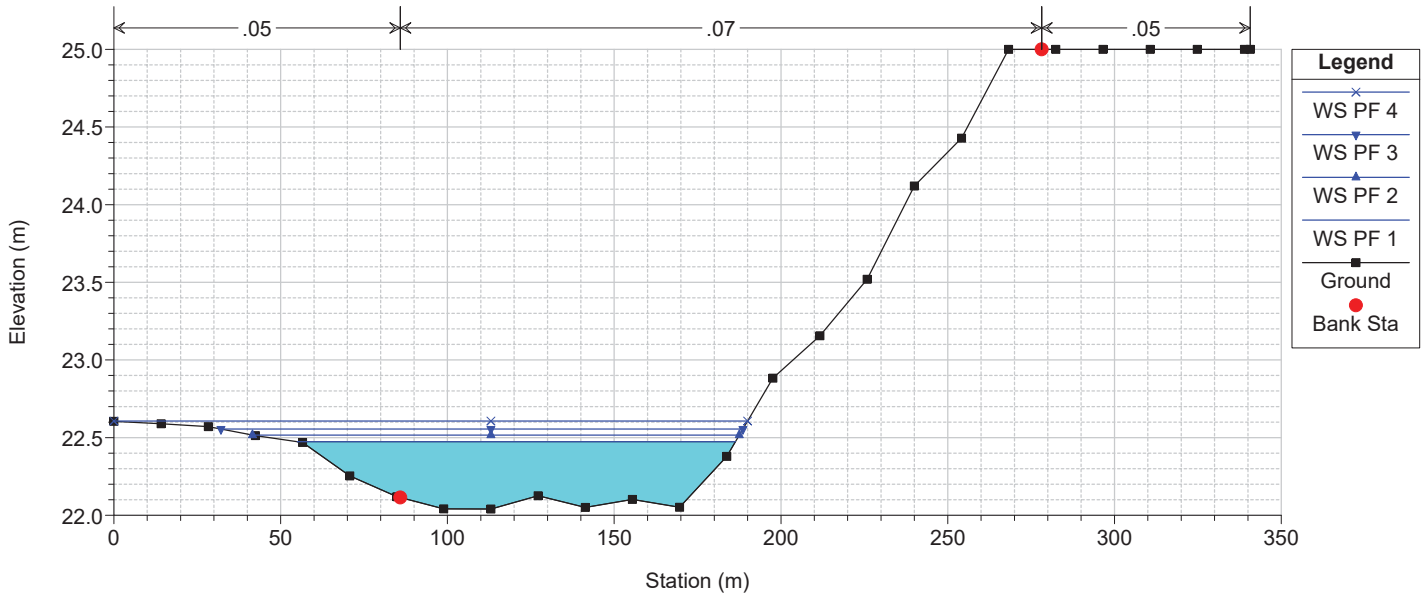
River = paggiassu_asta Reach = paggiassu_asta RS = 566.65 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

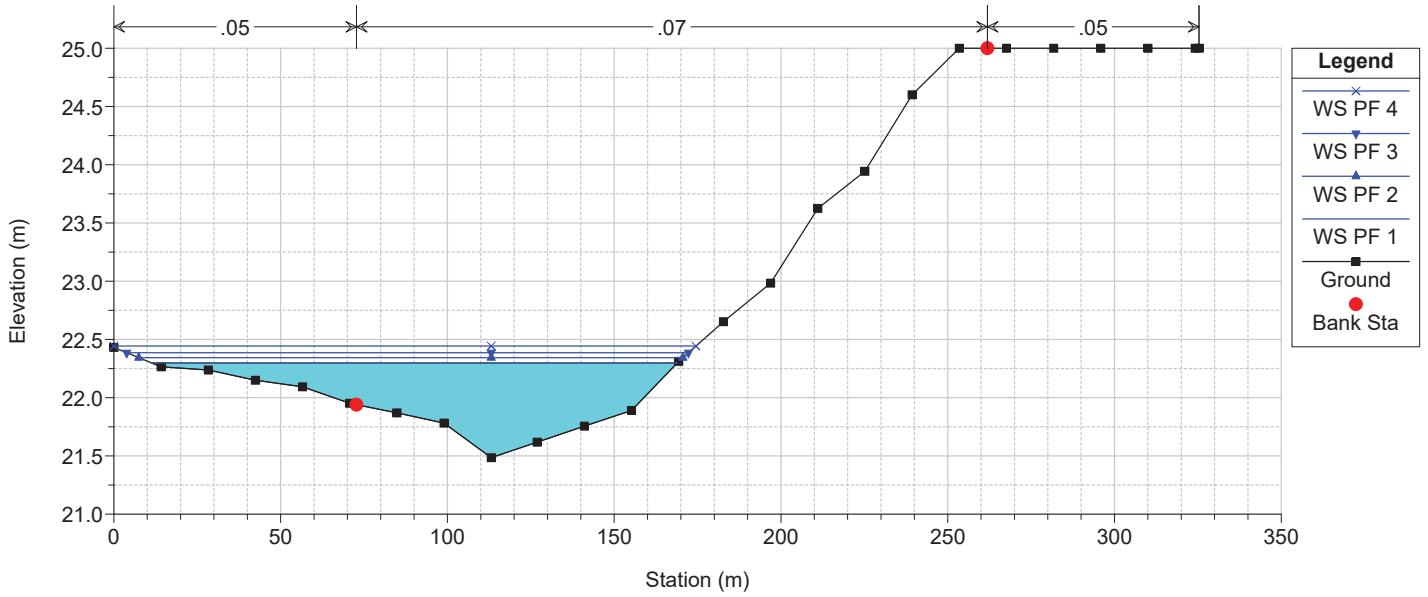
River = paggiassu_asta Reach = paggiassu_asta RS = 532.44 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

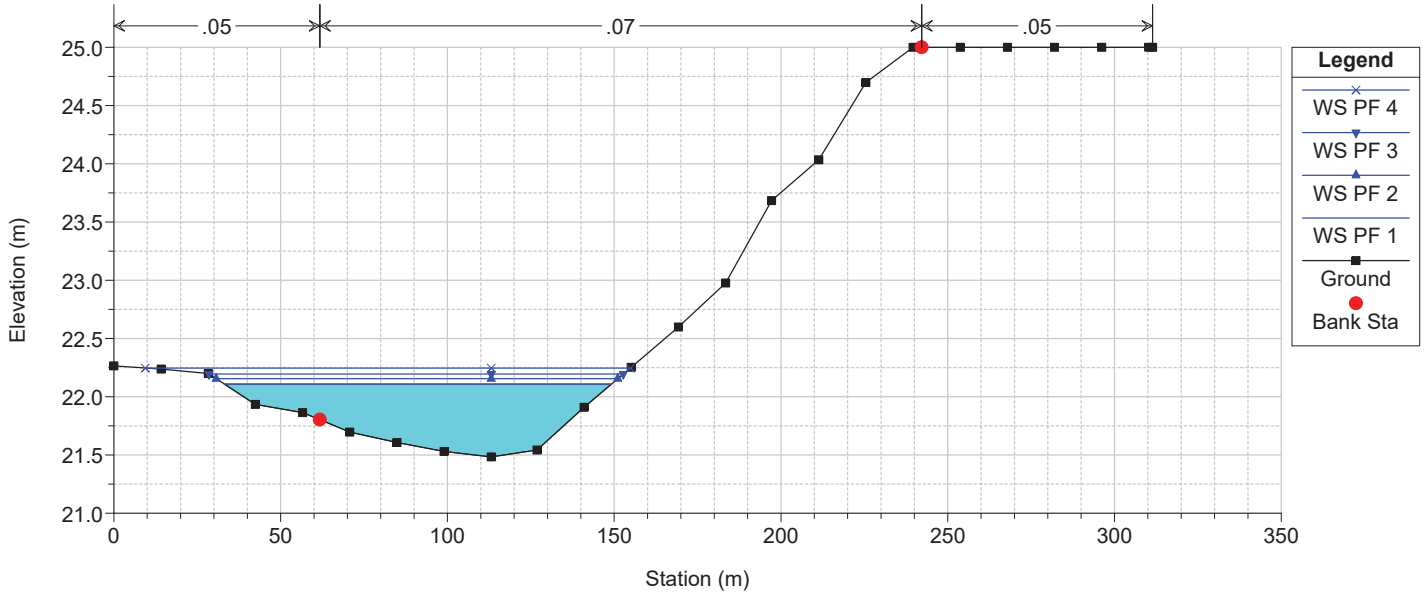
River = paggiassu_asta Reach = paggiassu_asta RS = 510.26 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

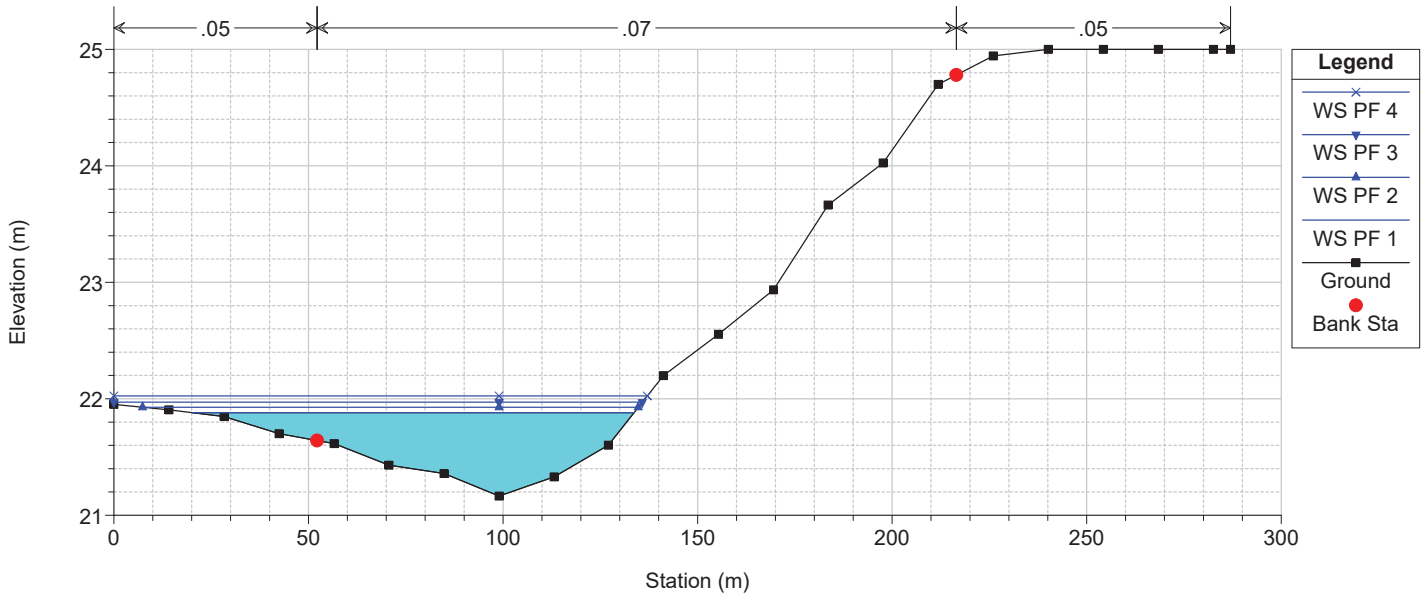
River = paggiassu_asta Reach = paggiassu_asta RS = 485.70 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

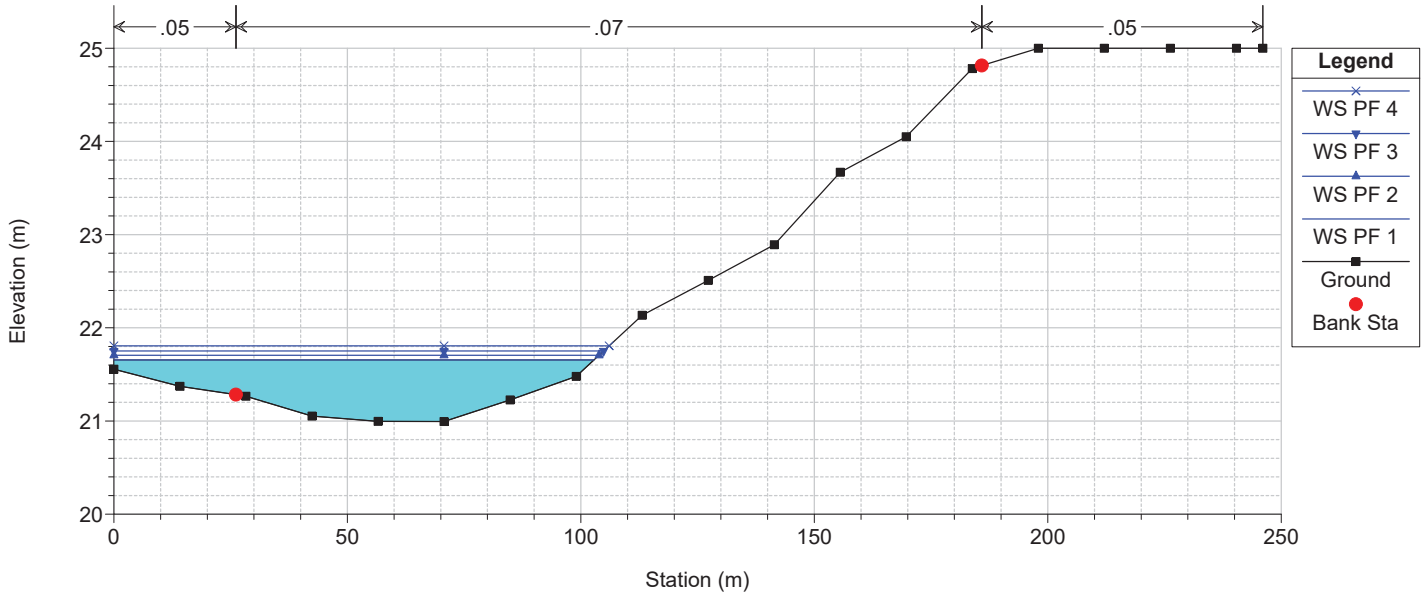
River = paggiassu_asta Reach = paggiassu_asta RS = 466.48 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

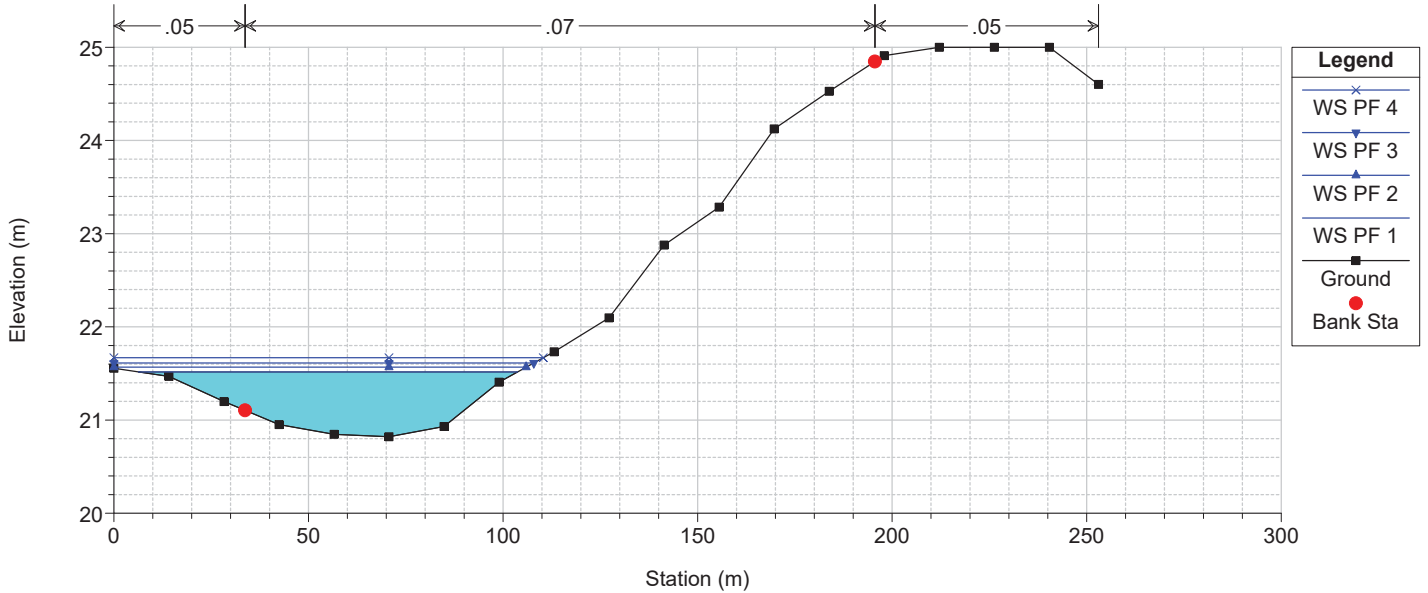
River = paggiassu_asta Reach = paggiassu_asta RS = 444.52 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

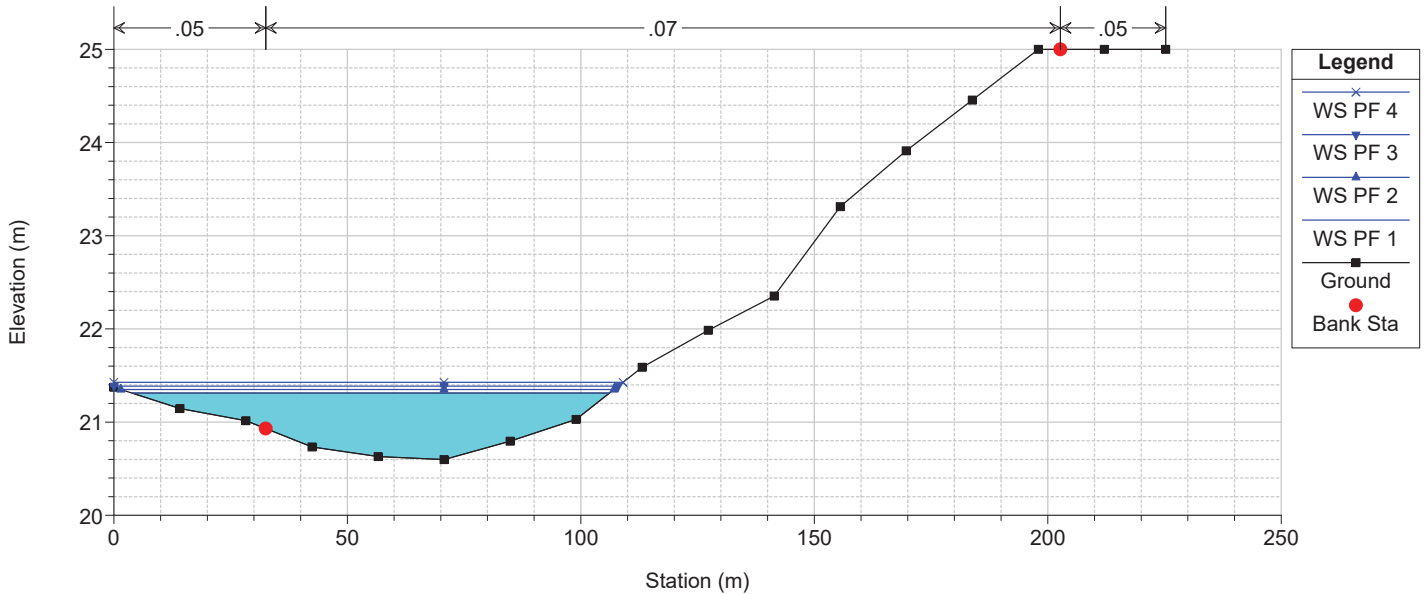
River = paggiassu_asta Reach = paggiassu_asta RS = 430.93 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

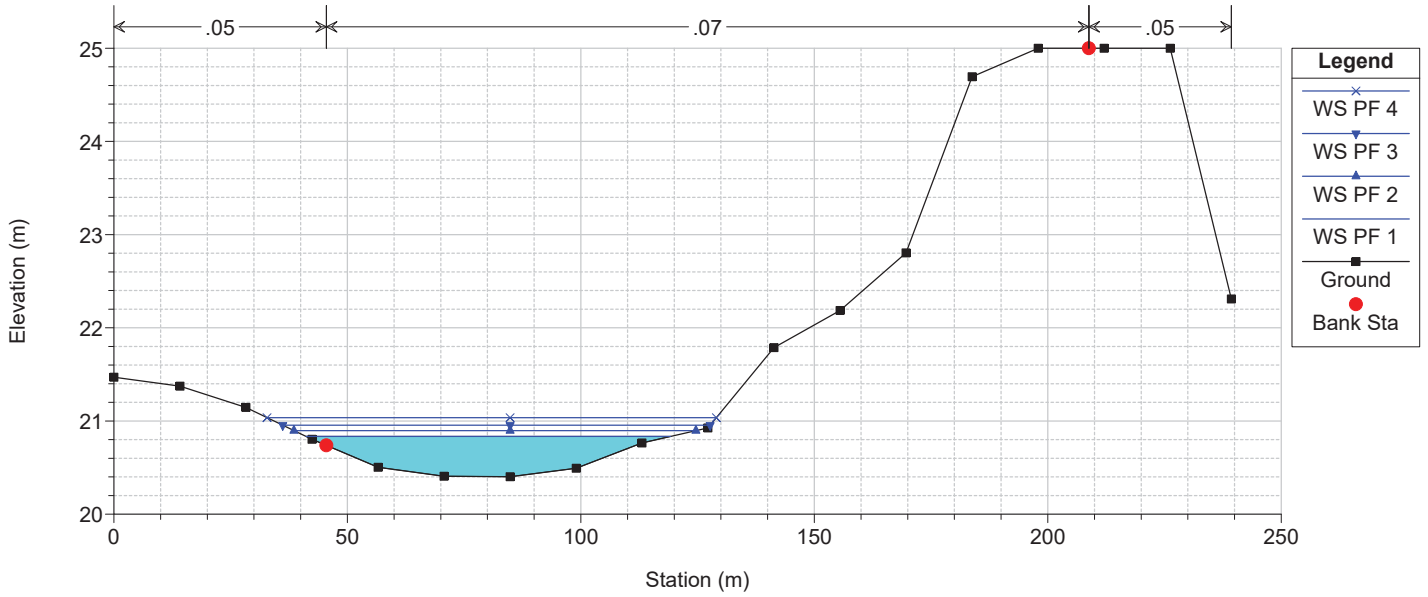
River = paggiassu_asta Reach = paggiassu_asta RS = 409.13 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

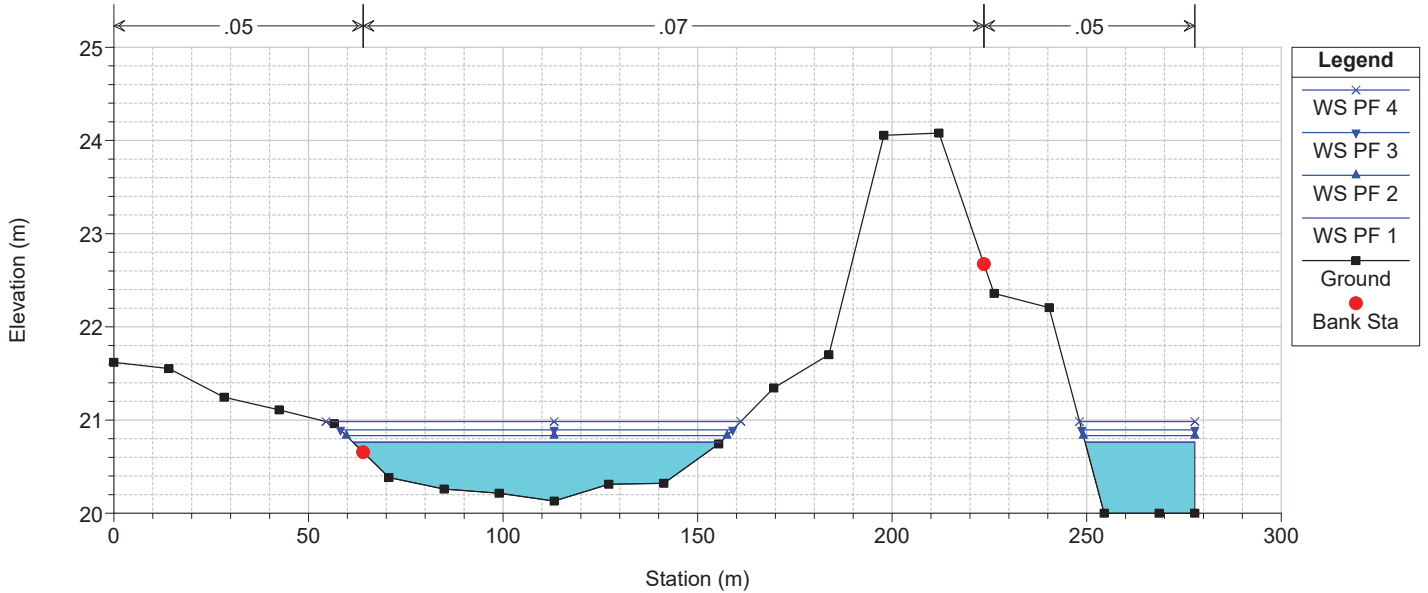
River = paggiassu_asta Reach = paggiassu_asta RS = 390.67 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

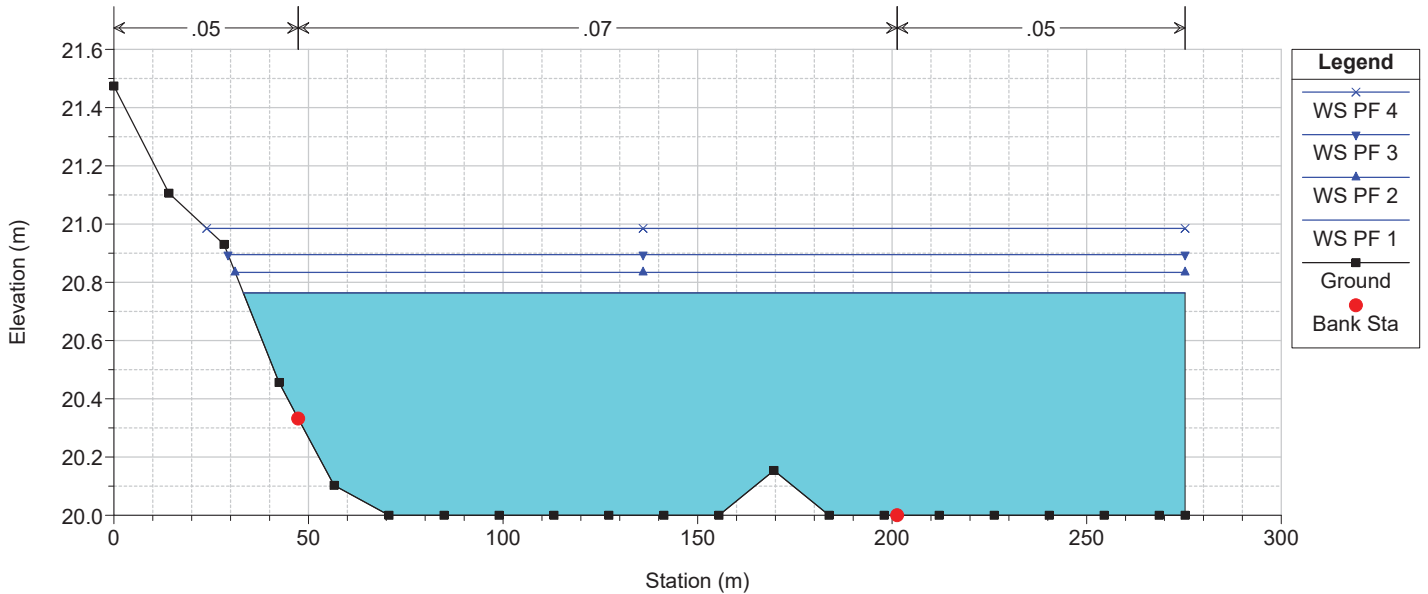
River = paggiassu_asta Reach = paggiassu_asta RS = 375.61 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

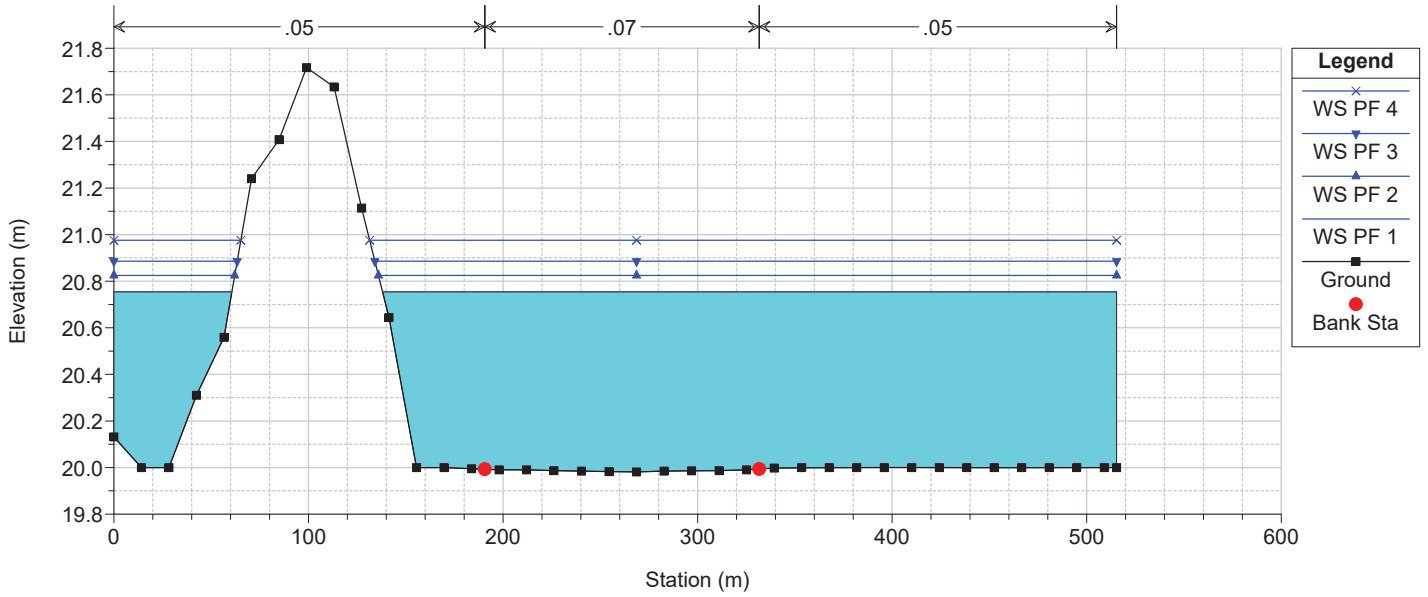
River = paggiassu_asta Reach = paggiassu_asta RS = 353.95 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

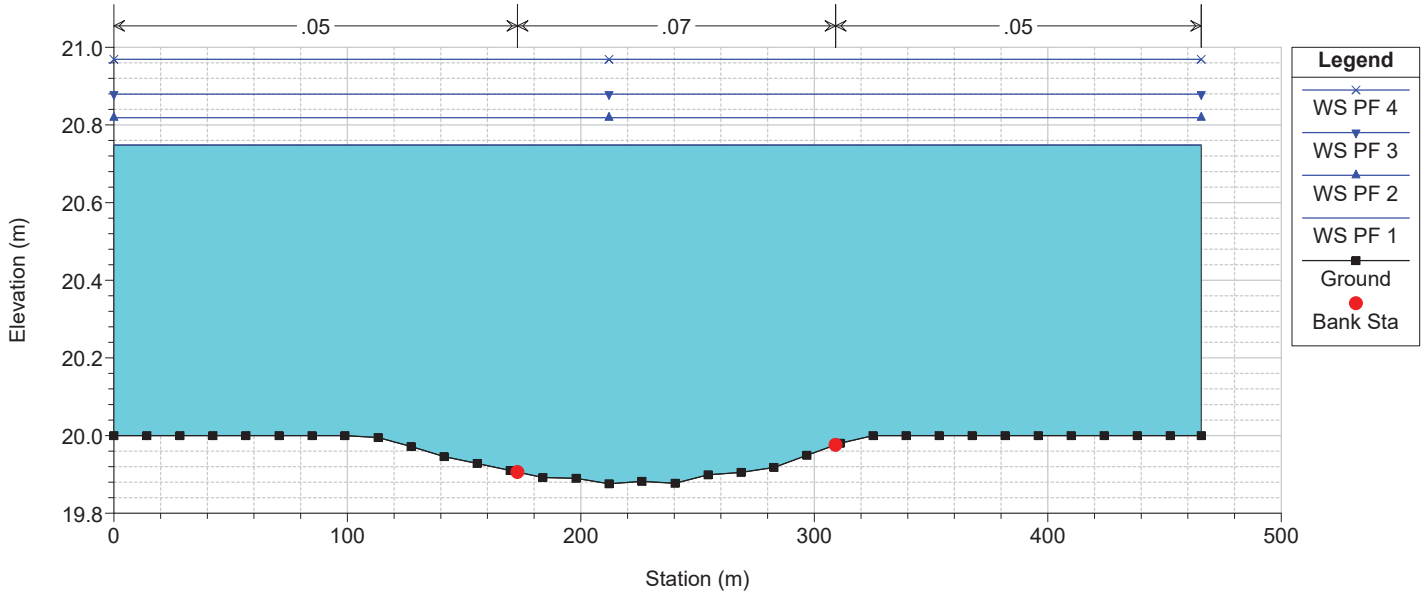
River = paggiassu_asta Reach = paggiassu_asta RS = 273.21 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

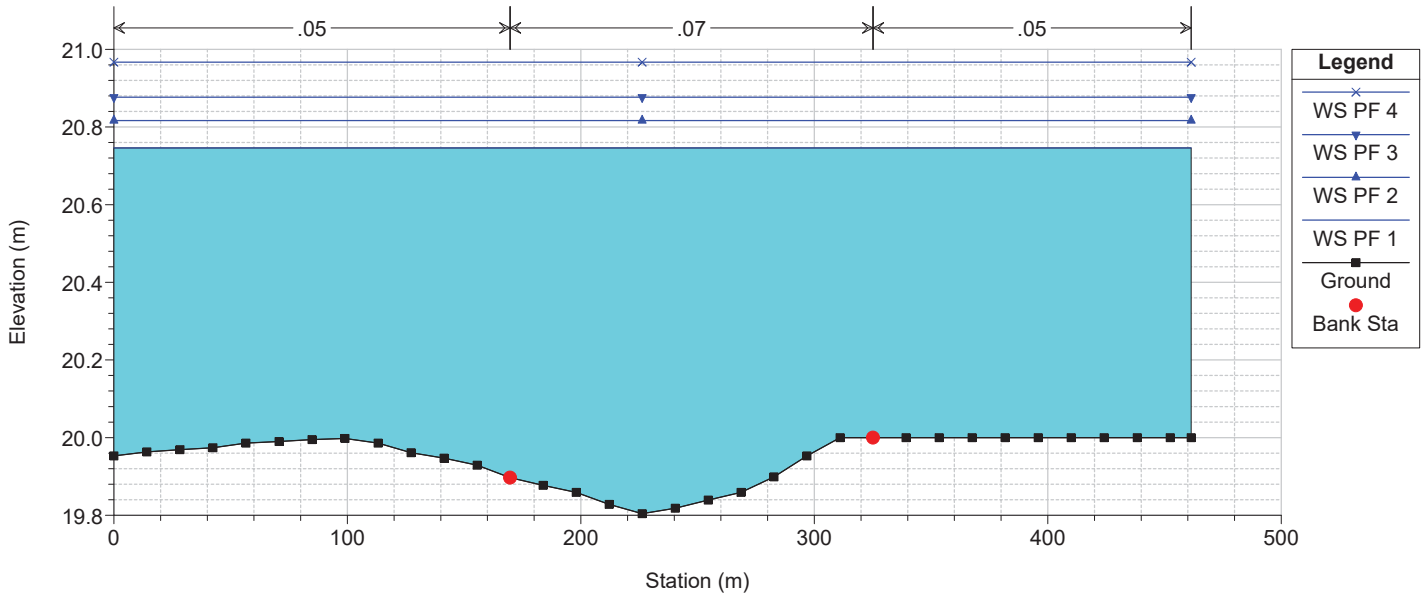
River = paggiassu_asta Reach = paggiassu_asta RS = 162.64 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

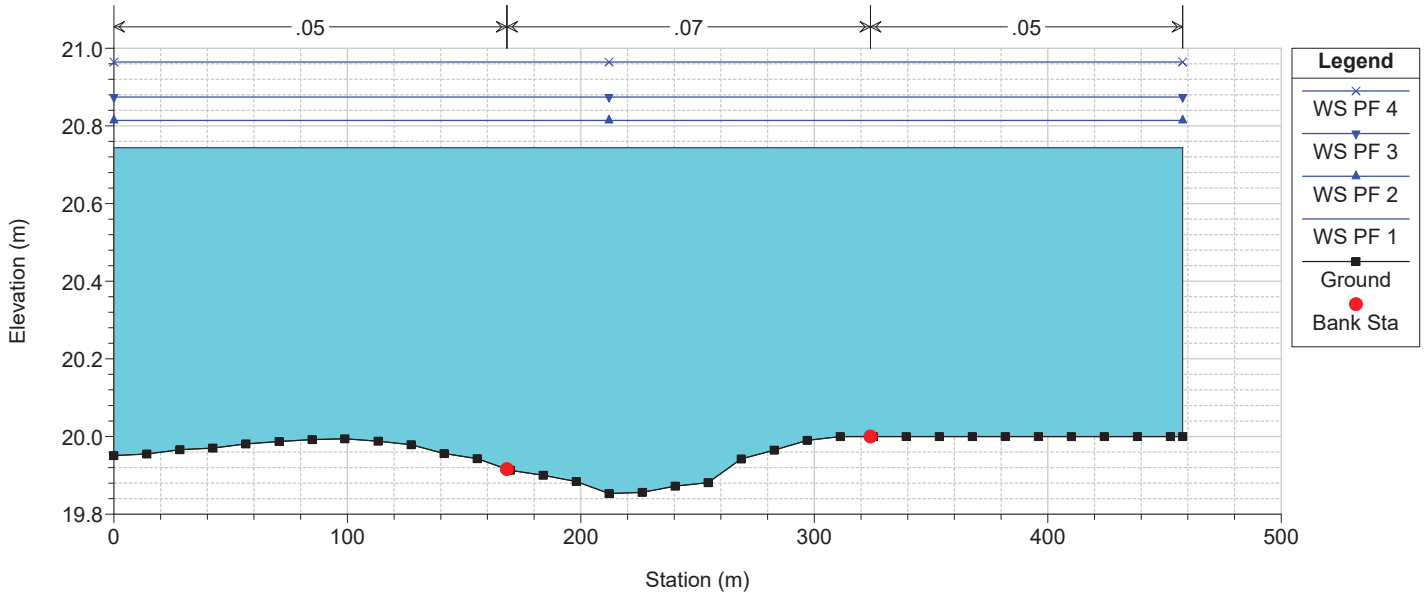
River = paggiassu_asta Reach = paggiassu_asta RS = 121.70 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

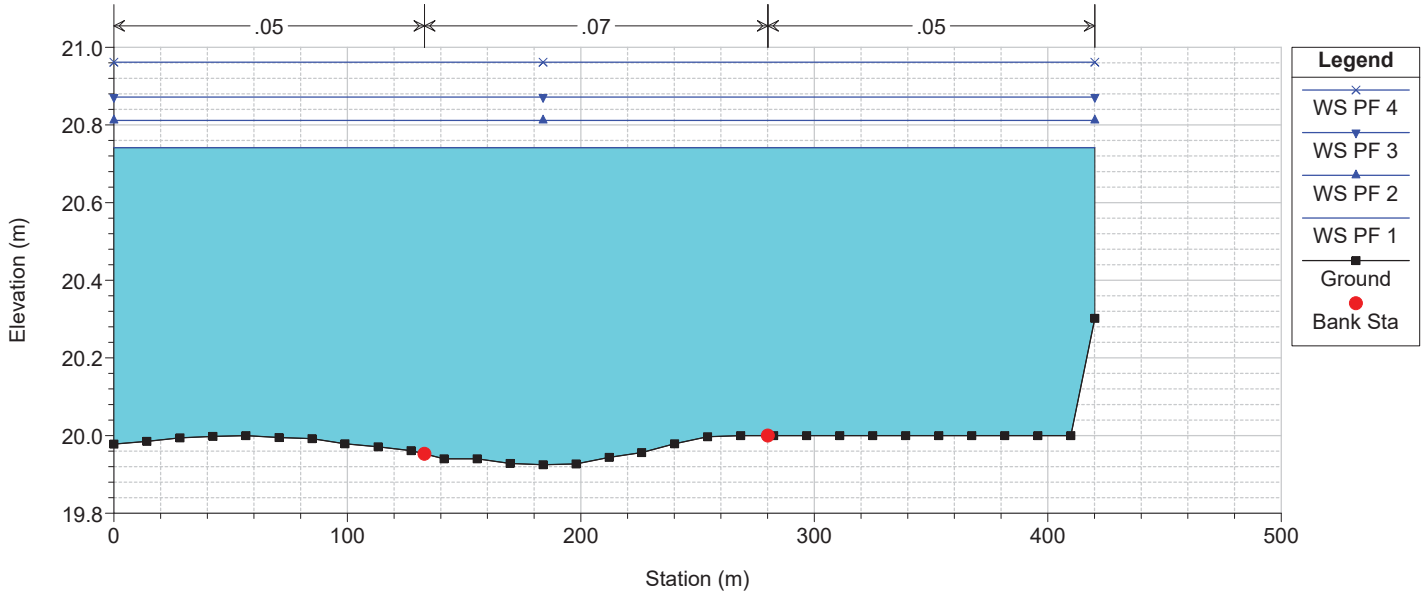
River = paggiassu_asta Reach = paggiassu_asta RS = 77.55 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

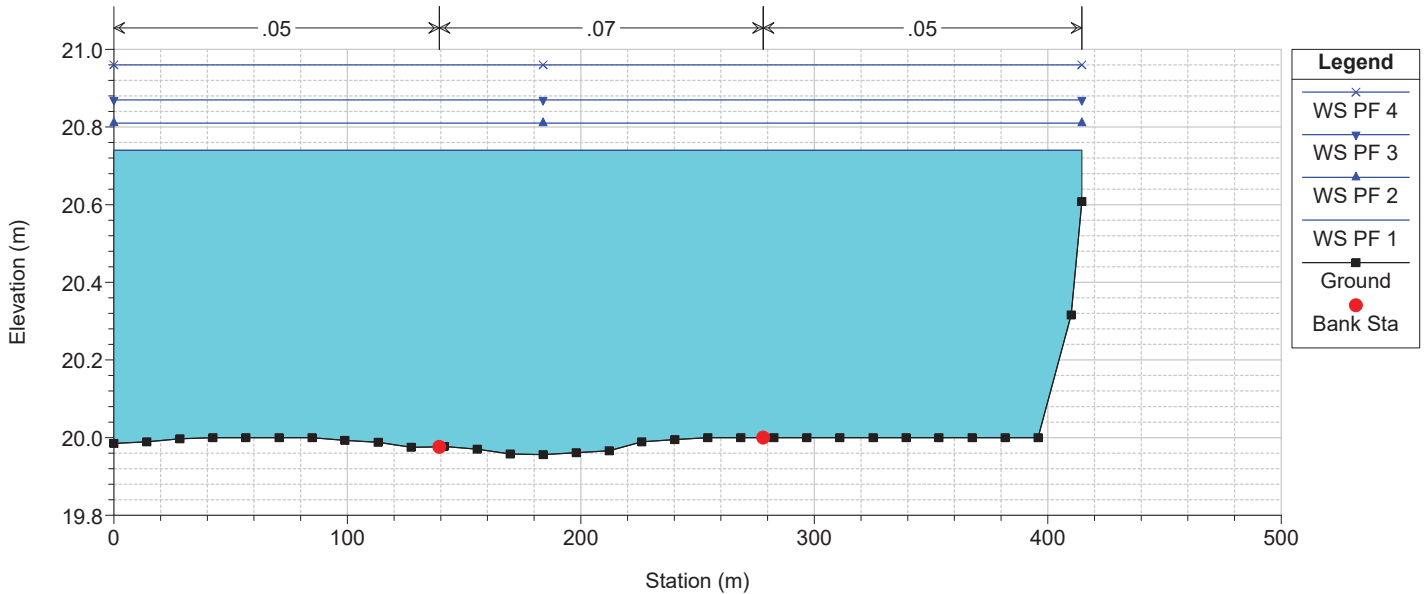
River = paggiassu_asta Reach = paggiassu_asta RS = 36.24 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



paggiassu Plan: Plan 04 10/25/2017

Geom: paggiassu4 Flow: paggiassu

River = paggiassu_asta Reach = paggiassu_asta RS = 13.44 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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
paggiassu_asta	2959.04	PF 1	38.39	52.63	53.35	53.35	53.57	0.065581	2.05	18.69	44.42	1.01
paggiassu_asta	2959.04	PF 2	45.35	52.63	53.41	53.41	53.64	0.064064	2.12	21.39	47.59	1.01
paggiassu_asta	2959.04	PF 3	52.41	52.63	53.47	53.47	53.71	0.062864	2.18	24.02	50.51	1.01
paggiassu_asta	2959.04	PF 4	61.99	52.63	53.54	53.54	53.79	0.060098	2.24	27.73	54.35	1.00
paggiassu_asta	2840.34	PF 1	38.39	50.00	51.34	50.63	51.37	0.003037	0.78	49.46	50.39	0.25
paggiassu_asta	2840.34	PF 2	45.35	50.00	51.44	50.69	51.48	0.003170	0.83	54.46	51.54	0.26
paggiassu_asta	2840.34	PF 3	52.41	50.00	51.53	50.75	51.57	0.003290	0.88	59.24	52.62	0.27
paggiassu_asta	2840.34	PF 4	61.99	50.00	51.65	50.82	51.69	0.003434	0.95	65.34	53.96	0.28
paggiassu_asta	2728.66	PF 1	38.39	50.00	50.74		50.81	0.010052	1.11	34.68	50.92	0.43
paggiassu_asta	2728.66	PF 2	45.35	50.00	50.79		50.87	0.011140	1.21	37.34	51.52	0.46
paggiassu_asta	2728.66	PF 3	52.41	50.00	50.84		50.93	0.012183	1.32	39.82	52.06	0.48
paggiassu_asta	2728.66	PF 4	61.99	50.00	50.90		51.01	0.013524	1.44	42.90	52.74	0.51
paggiassu_asta	2619.36	PF 1	38.39	50.00	50.54		50.54	0.000942	0.29	124.44	244.63	0.13
paggiassu_asta	2619.36	PF 2	45.35	50.00	50.59		50.59	0.000964	0.31	136.65	245.35	0.13
paggiassu_asta	2619.36	PF 3	52.41	50.00	50.64		50.64	0.000984	0.33	148.23	246.03	0.13
paggiassu_asta	2619.36	PF 4	61.99	50.00	50.70		50.70	0.001008	0.35	162.89	246.88	0.14
paggiassu_asta	2505.82	PF 1	38.39	49.61	50.05	50.05	50.18	0.080037	1.56	24.53	101.82	1.02
paggiassu_asta	2505.82	PF 2	45.35	49.61	50.08	50.08	50.22	0.077151	1.64	27.57	103.27	1.02
paggiassu_asta	2505.82	PF 3	52.41	49.61	50.11	50.11	50.26	0.074716	1.72	30.53	104.67	1.01
paggiassu_asta	2505.82	PF 4	61.99	49.61	50.15	50.15	50.31	0.072074	1.80	34.36	106.45	1.01
paggiassu_asta	2398.16	PF 1	38.39	44.63	47.02	45.38	47.03	0.000474	0.43	89.68	55.20	0.11
paggiassu_asta	2398.16	PF 2	45.35	44.63	47.13	45.45	47.14	0.000552	0.48	95.42	56.32	0.12
paggiassu_asta	2398.16	PF 3	52.41	44.63	47.22	45.52	47.23	0.000630	0.52	100.81	57.35	0.13
paggiassu_asta	2398.16	PF 4	61.99	44.63	47.34	45.60	47.36	0.000726	0.58	107.80	58.66	0.14
paggiassu_asta	2343.24	PF 1	38.39	45.46	46.77	46.61	46.94	0.028588	1.78	21.62	34.12	0.71
paggiassu_asta	2343.24	PF 2	45.35	45.46	46.85	46.69	47.03	0.028893	1.88	24.11	35.16	0.73
paggiassu_asta	2343.24	PF 3	52.41	45.46	46.91	46.76	47.11	0.029977	2.00	26.26	36.04	0.75
paggiassu_asta	2343.24	PF 4	61.99	45.46	46.99	46.84	47.22	0.030802	2.12	29.18	37.19	0.77
paggiassu_asta	2299.10	PF 1	38.39	44.06	44.90	44.90	45.14	0.061427	2.18	17.59	36.29	1.00
paggiassu_asta	2299.10	PF 2	45.35	44.06	44.96	44.96	45.23	0.061004	2.29	19.78	37.69	1.01
paggiassu_asta	2299.10	PF 3	52.41	44.06	45.02	45.02	45.31	0.058284	2.36	22.21	39.19	1.00
paggiassu_asta	2299.10	PF 4	61.99	44.06	45.10	45.10	45.41	0.056728	2.46	25.21	40.96	1.00
paggiassu_asta	2255.57	PF 1	38.39	40.00	42.03	41.27	42.09	0.005339	1.12	34.30	30.48	0.34
paggiassu_asta	2255.57	PF 2	45.35	40.00	42.15	41.37	42.22	0.005622	1.19	38.02	31.92	0.35
paggiassu_asta	2255.57	PF 3	52.41	40.00	42.26	41.45	42.34	0.005900	1.26	41.53	33.22	0.36
paggiassu_asta	2255.57	PF 4	61.99	40.00	42.39	41.56	42.48	0.006229	1.35	46.06	34.82	0.37
paggiassu_asta	2219.92	PF 1	38.39	40.00	41.73		41.82	0.011120	1.36	28.22	32.70	0.47
paggiassu_asta	2219.92	PF 2	45.35	40.00	41.84		41.94	0.011051	1.42	32.03	34.78	0.47
paggiassu_asta	2219.92	PF 3	52.41	40.00	41.94		42.05	0.010947	1.47	35.66	36.34	0.47
paggiassu_asta	2219.92	PF 4	61.99	40.00	42.07		42.19	0.010846	1.54	40.38	38.27	0.48
paggiassu_asta	2087.71	PF 1	38.39	40.00	41.26		41.28	0.001977	0.63	60.48	60.39	0.20
paggiassu_asta	2087.71	PF 2	45.35	40.00	41.36		41.38	0.002084	0.68	66.40	61.76	0.21
paggiassu_asta	2087.71	PF 3	52.41	40.00	41.45		41.48	0.002182	0.73	71.98	62.96	0.22
paggiassu_asta	2087.71	PF 4	61.99	40.00	41.56		41.59	0.002301	0.78	79.10	64.45	0.23
paggiassu_asta	1968.37	PF 1	38.39	39.89	40.38	40.38	40.58	0.066331	2.00	19.23	48.04	1.01
paggiassu_asta	1968.37	PF 2	45.35	39.89	40.43	40.43	40.65	0.063981	2.10	21.61	48.77	1.01
paggiassu_asta	1968.37	PF 3	52.41	39.89	40.47	40.47	40.72	0.062289	2.19	23.90	49.46	1.01
paggiassu_asta	1968.37	PF 4	61.99	39.89	40.53	40.53	40.80	0.060223	2.31	26.89	50.36	1.01
paggiassu_asta	1902.62	PF 1	38.39	35.33	36.76	36.40	36.86	0.012849	1.43	26.94	32.48	0.50
paggiassu_asta	1902.62	PF 2	45.35	35.33	36.86	36.48	36.97	0.012748	1.50	30.20	33.44	0.50
paggiassu_asta	1902.62	PF 3	52.41	35.33	36.95	36.55	37.08	0.012728	1.57	33.31	34.33	0.51
paggiassu_asta	1902.62	PF 4	61.99	35.33	37.06	36.64	37.20	0.012749	1.66	37.30	35.44	0.52
paggiassu_asta	1794.46	PF 1	38.39	35.00	36.10		36.13	0.003959	0.79	48.68	59.12	0.28
paggiassu_asta	1794.46	PF 2	45.35	35.00	36.17		36.21	0.004250	0.86	52.98	60.01	0.29
paggiassu_asta	1794.46	PF 3	52.41	35.00	36.24		36.28	0.004509	0.92	57.09	60.84	0.30
paggiassu_asta	1794.46	PF 4	61.99	35.00	36.32		36.38	0.004847	1.00	62.20	61.87	0.32
paggiassu_asta	1660.02	PF 1	38.39	35.00	35.45		35.47	0.006195	0.65	58.80	132.83	0.31
paggiassu_asta	1660.02	PF 2	45.35	35.00	35.50		35.52	0.006174	0.70	65.17	133.42	0.32
paggiassu_asta	1660.02	PF 3	52.41	35.00	35.54		35.57	0.006275	0.74	70.85	133.94	0.32
paggiassu_asta	1660.02	PF 4	61.99	35.00	35.60		35.63	0.006305	0.79	78.40	134.63	0.33
paggiassu_asta	1596.21	PF 1	38.39	33.73	34.36	34.36	34.51	0.072575	1.71	22.50	76.20	1.00
paggiassu_asta	1596.21	PF 2	45.35	33.73	34.40	34.40	34.56	0.072917	1.81	25.04	77.82	1.02
paggiassu_asta	1596.21	PF 3	52.41	33.73	34.44	34.44	34.61	0.068448	1.86	28.11	79.73	1.00
paggiassu_asta	1596.21	PF 4	61.99	33.73	34.48	34.48	34.68	0.066262	1.95	31.73	81.94	1.00
paggiassu_asta	1529.72	PF 1	38.39	30.00	31.45	30.79	31.51	0.005527	1.07	35.85	35.17	0.34
paggiassu_asta	1529.72	PF 2	45.35	30.00	31.55	30.87	31.62	0.005814	1.15	39.51	36.28	0.35

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
paggiassu_asta	1529.72	PF 3	52.41	30.00	31.65	30.94	31.73	0.006075	1.22	43.01	37.30	0.36
paggiassu_asta	1529.72	PF 4	61.99	30.00	31.77	31.03	31.85	0.006395	1.31	47.48	38.57	0.38
paggiassu_asta	1456.82	PF 1	38.39	30.00	31.11		31.15	0.004304	0.86	44.42	50.01	0.29
paggiassu_asta	1456.82	PF 2	45.35	30.00	31.20		31.24	0.004531	0.93	48.75	51.08	0.30
paggiassu_asta	1456.82	PF 3	52.41	30.00	31.28		31.33	0.004739	0.99	52.88	52.09	0.31
paggiassu_asta	1456.82	PF 4	61.99	30.00	31.38		31.43	0.005000	1.07	58.10	53.33	0.33
paggiassu_asta	1380.19	PF 1	38.39	30.00	30.93		30.94	0.001723	0.53	71.81	83.65	0.18
paggiassu_asta	1380.19	PF 2	45.35	30.00	31.01		31.02	0.001842	0.58	78.18	84.71	0.19
paggiassu_asta	1380.19	PF 3	52.41	30.00	31.08		31.10	0.001948	0.62	84.25	85.70	0.20
paggiassu_asta	1380.19	PF 4	61.99	30.00	31.17		31.19	0.002083	0.67	91.84	86.92	0.21
paggiassu_asta	1310.50	PF 1	38.39	30.00	30.80		30.82	0.001946	0.52	74.39	100.32	0.19
paggiassu_asta	1310.50	PF 2	45.35	30.00	30.87		30.89	0.002061	0.56	81.23	101.63	0.20
paggiassu_asta	1310.50	PF 3	52.41	30.00	30.94		30.95	0.002159	0.60	87.81	102.87	0.21
paggiassu_asta	1310.50	PF 4	61.99	30.00	31.01		31.04	0.002289	0.65	95.99	104.39	0.21
paggiassu_asta	1229.67	PF 1	38.39	29.87	30.20	30.20	30.34	0.075673	1.62	23.63	88.87	1.01
paggiassu_asta	1229.67	PF 2	45.35	29.87	30.24	30.24	30.39	0.073434	1.72	26.42	89.44	1.01
paggiassu_asta	1229.67	PF 3	52.41	29.87	30.27	30.27	30.43	0.070990	1.80	29.18	90.00	1.01
paggiassu_asta	1229.67	PF 4	61.99	29.87	30.31	30.31	30.49	0.068653	1.90	32.70	90.70	1.01
paggiassu_asta	1089.47	PF 1	38.39	25.00	26.09	25.38	26.10	0.001566	0.52	73.69	83.21	0.18
paggiassu_asta	1089.47	PF 2	45.35	25.00	26.17	25.42	26.18	0.001691	0.56	80.32	85.15	0.19
paggiassu_asta	1089.47	PF 3	52.41	25.00	26.24	25.46	26.26	0.001809	0.61	86.58	86.95	0.19
paggiassu_asta	1089.47	PF 4	61.99	25.00	26.33	25.51	26.35	0.001953	0.66	94.52	89.17	0.20
paggiassu_asta	963.10	PF 1	38.39	25.00	25.82		25.84	0.002957	0.57	67.34	107.04	0.23
paggiassu_asta	963.10	PF 2	45.35	25.00	25.88		25.90	0.003126	0.61	73.84	109.45	0.24
paggiassu_asta	963.10	PF 3	52.41	25.00	25.93		25.96	0.003305	0.66	79.83	111.62	0.25
paggiassu_asta	963.10	PF 4	61.99	25.00	26.00		26.03	0.003520	0.71	87.47	114.33	0.26
paggiassu_asta	863.14	PF 1	38.39	25.00	25.55		25.56	0.002553	0.46	84.06	178.74	0.21
paggiassu_asta	863.14	PF 2	45.35	25.00	25.59		25.60	0.002728	0.50	91.45	181.41	0.22
paggiassu_asta	863.14	PF 3	52.41	25.00	25.62		25.64	0.002924	0.54	98.05	183.75	0.23
paggiassu_asta	863.14	PF 4	61.99	25.00	25.67		25.69	0.003134	0.59	106.70	186.78	0.24
paggiassu_asta	752.63	PF 1	38.39	24.64	25.10		25.12	0.007144	0.54	73.63	316.15	0.32
paggiassu_asta	752.63	PF 2	45.35	24.64	25.13		25.15	0.006856	0.56	83.49	328.05	0.31
paggiassu_asta	752.63	PF 3	52.41	24.64	25.17		25.18	0.006391	0.57	94.15	339.50	0.31
paggiassu_asta	752.63	PF 4	61.99	24.64	25.20		25.22	0.006280	0.60	105.61	351.48	0.31
paggiassu_asta	734.91	PF 1	38.39	24.51	24.96		24.97	0.009005	0.62	63.19	233.11	0.36
paggiassu_asta	734.91	PF 2	45.35	24.51	24.99		25.01	0.008911	0.65	71.19	248.51	0.36
paggiassu_asta	734.91	PF 3	52.41	24.51	25.02		25.05	0.009092	0.67	81.14	298.12	0.36
paggiassu_asta	734.91	PF 4	61.99	24.51	25.06		25.09	0.008550	0.70	92.74	302.82	0.36
paggiassu_asta	718.16	PF 1	38.39	24.34	24.80		24.82	0.009792	0.65	59.75	208.01	0.37
paggiassu_asta	718.16	PF 2	45.35	24.34	24.83		24.85	0.009808	0.69	66.99	215.90	0.38
paggiassu_asta	718.16	PF 3	52.41	24.34	24.86		24.89	0.009693	0.72	74.33	223.62	0.38
paggiassu_asta	718.16	PF 4	61.99	24.34	24.91		24.94	0.009512	0.75	84.55	243.61	0.38
paggiassu_asta	676.93	PF 1	38.39	23.92	24.43		24.45	0.007995	0.63	61.26	192.17	0.34
paggiassu_asta	676.93	PF 2	45.35	23.92	24.47		24.49	0.007969	0.67	68.54	198.87	0.35
paggiassu_asta	676.93	PF 3	52.41	23.92	24.51		24.53	0.007937	0.70	75.62	205.17	0.35
paggiassu_asta	676.93	PF 4	61.99	23.92	24.55		24.57	0.008098	0.75	84.16	214.44	0.36
paggiassu_asta	566.65	PF 1	38.39	22.54	23.07	22.95	23.12	0.020073	1.00	39.36	129.57	0.54
paggiassu_asta	566.65	PF 2	45.35	22.54	23.11		23.16	0.020045	1.05	44.75	161.76	0.55
paggiassu_asta	566.65	PF 3	52.41	22.54	23.14		23.20	0.020172	1.10	50.50	198.84	0.56
paggiassu_asta	566.65	PF 4	61.99	22.54	23.18		23.24	0.019289	1.13	59.15	212.55	0.55
paggiassu_asta	532.44	PF 1	38.39	22.04	22.47		22.51	0.014782	0.90	43.33	131.38	0.47
paggiassu_asta	532.44	PF 2	45.35	22.04	22.52		22.56	0.014630	0.95	49.24	145.92	0.48
paggiassu_asta	532.44	PF 3	52.41	22.04	22.56		22.60	0.014254	0.99	55.11	156.48	0.48
paggiassu_asta	532.44	PF 4	61.99	22.04	22.61		22.66	0.013945	1.05	63.89	189.99	0.48
paggiassu_asta	510.26	PF 1	38.39	21.49	22.30		22.32	0.005781	0.70	58.68	157.61	0.31
paggiassu_asta	510.26	PF 2	45.35	21.49	22.34		22.37	0.005818	0.73	65.94	163.17	0.31
paggiassu_asta	510.26	PF 3	52.41	21.49	22.39		22.41	0.005853	0.76	72.91	168.40	0.32
paggiassu_asta	510.26	PF 4	61.99	21.49	22.44		22.47	0.005692	0.79	82.76	174.51	0.32
paggiassu_asta	485.70	PF 1	38.39	21.48	22.11		22.15	0.010429	0.87	45.44	116.09	0.41
paggiassu_asta	485.70	PF 2	45.35	21.48	22.15		22.20	0.010463	0.92	50.89	120.45	0.41
paggiassu_asta	485.70	PF 3	52.41	21.48	22.19		22.24	0.010710	0.96	55.77	124.22	0.42
paggiassu_asta	485.70	PF 4	61.99	21.48	22.25		22.30	0.011385	1.04	62.68	145.44	0.44
paggiassu_asta	466.48	PF 1	38.39	21.17	21.88		21.93	0.013105	0.97	41.07	113.43	0.46
paggiassu_asta	466.48	PF 2	45.35	21.17	21.93		21.98	0.012944	1.02	46.77	127.43	0.46
paggiassu_asta	466.48	PF 3	52.41	21.17	21.97		22.02	0.012620	1.06	52.57	135.81	0.46
paggiassu_asta	466.48	PF 4	61.99	21.17	22.02		22.08	0.012075	1.09	59.90	137.09	0.46

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
paggiassu_asta	444.52	PF 1	38.39	20.99	21.65		21.69	0.009263	0.87	45.02	102.79	0.39
paggiassu_asta	444.52	PF 2	45.35	20.99	21.71		21.75	0.009106	0.91	50.31	103.89	0.39
paggiassu_asta	444.52	PF 3	52.41	20.99	21.75		21.80	0.009180	0.95	54.99	104.86	0.40
paggiassu_asta	444.52	PF 4	61.99	20.99	21.81		21.86	0.009307	1.01	60.87	106.06	0.41
paggiassu_asta	430.93	PF 1	38.39	20.82	21.52		21.56	0.010597	0.96	41.62	97.45	0.42
paggiassu_asta	430.93	PF 2	45.35	20.82	21.57		21.62	0.010887	1.01	46.82	105.94	0.43
paggiassu_asta	430.93	PF 3	52.41	20.82	21.61		21.67	0.011013	1.05	51.64	107.90	0.44
paggiassu_asta	430.93	PF 4	61.99	20.82	21.67		21.73	0.011156	1.10	57.74	110.34	0.45
paggiassu_asta	409.13	PF 1	38.39	20.60	21.31	21.07	21.35	0.009206	0.90	44.44	102.26	0.39
paggiassu_asta	409.13	PF 2	45.35	20.60	21.35	21.11	21.40	0.010007	0.97	48.46	105.63	0.41
paggiassu_asta	409.13	PF 3	52.41	20.60	21.39	21.15	21.44	0.010737	1.04	52.23	108.00	0.43
paggiassu_asta	409.13	PF 4	61.99	20.60	21.43		21.49	0.011677	1.12	56.75	109.05	0.46
paggiassu_asta	390.67	PF 1	38.39	20.40	20.83	20.83	20.98	0.070039	1.71	22.60	78.04	0.99
paggiassu_asta	390.67	PF 2	45.35	20.40	20.90	20.87	21.03	0.055540	1.65	27.74	86.10	0.90
paggiassu_asta	390.67	PF 3	52.41	20.40	20.95	20.91	21.09	0.044980	1.61	32.93	91.54	0.83
paggiassu_asta	390.67	PF 4	61.99	20.40	21.04		21.16	0.033158	1.55	40.52	96.21	0.73
paggiassu_asta	375.61	PF 1	38.39	20.13	20.76	20.49	20.79	0.003548	0.50	60.72	122.75	0.24
paggiassu_asta	375.61	PF 2	45.35	20.13	20.83		20.86	0.003343	0.53	69.47	126.56	0.24
paggiassu_asta	375.61	PF 3	52.41	20.13	20.89		20.92	0.003275	0.56	77.26	129.86	0.24
paggiassu_asta	375.61	PF 4	61.99	20.13	20.98		21.01	0.003030	0.58	89.11	136.26	0.23
paggiassu_asta	353.95	PF 1	38.39	20.00	20.76		20.77	0.000287	0.20	172.34	242.03	0.07
paggiassu_asta	353.95	PF 2	45.35	20.00	20.83		20.84	0.000294	0.21	189.49	244.13	0.08
paggiassu_asta	353.95	PF 3	52.41	20.00	20.90		20.90	0.000307	0.23	204.48	245.96	0.08
paggiassu_asta	353.95	PF 4	61.99	20.00	20.99		20.99	0.000309	0.24	226.82	251.44	0.08
paggiassu_asta	273.21	PF 1	38.39	19.98	20.75		20.76	0.000072	0.10	313.52	437.86	0.04
paggiassu_asta	273.21	PF 2	45.35	19.98	20.82		20.83	0.000074	0.11	344.48	441.44	0.04
paggiassu_asta	273.21	PF 3	52.41	19.98	20.89		20.89	0.000078	0.12	371.48	444.54	0.04
paggiassu_asta	273.21	PF 4	61.99	19.98	20.98		20.98	0.000078	0.13	411.79	449.13	0.04
paggiassu_asta	162.64	PF 1	38.39	19.88	20.75		20.75	0.000047	0.09	365.22	465.75	0.03
paggiassu_asta	162.64	PF 2	45.35	19.88	20.82		20.82	0.000049	0.09	397.92	465.75	0.03
paggiassu_asta	162.64	PF 3	52.41	19.88	20.88		20.88	0.000052	0.10	426.14	465.75	0.03
paggiassu_asta	162.64	PF 4	61.99	19.88	20.97		20.97	0.000053	0.11	468.12	465.75	0.03
paggiassu_asta	121.70	PF 1	38.39	19.80	20.75		20.75	0.000046	0.09	368.28	461.43	0.03
paggiassu_asta	121.70	PF 2	45.35	19.80	20.82		20.82	0.000049	0.10	400.63	461.43	0.03
paggiassu_asta	121.70	PF 3	52.41	19.80	20.88		20.88	0.000052	0.10	428.53	461.43	0.03
paggiassu_asta	121.70	PF 4	61.99	19.80	20.97		20.97	0.000053	0.11	470.09	461.43	0.03
paggiassu_asta	77.55	PF 1	38.39	19.85	20.74		20.74	0.000050	0.09	358.41	457.77	0.03
paggiassu_asta	77.55	PF 2	45.35	19.85	20.81		20.81	0.000052	0.10	390.45	457.77	0.03
paggiassu_asta	77.55	PF 3	52.41	19.85	20.87		20.88	0.000056	0.10	418.06	457.77	0.03
paggiassu_asta	77.55	PF 4	61.99	19.85	20.96		20.97	0.000057	0.11	459.26	457.77	0.03
paggiassu_asta	36.24	PF 1	38.39	19.93	20.74		20.74	0.000066	0.10	318.53	420.14	0.04
paggiassu_asta	36.24	PF 2	45.35	19.93	20.81		20.81	0.000069	0.11	347.89	420.14	0.04
paggiassu_asta	36.24	PF 3	52.41	19.93	20.87		20.87	0.000072	0.11	373.16	420.14	0.04
paggiassu_asta	36.24	PF 4	61.99	19.93	20.96		20.96	0.000073	0.12	410.94	420.14	0.04
paggiassu_asta	13.44	PF 1	38.39	19.96	20.74	20.09	20.74	0.000073	0.10	306.64	414.62	0.04
paggiassu_asta	13.44	PF 2	45.35	19.96	20.81	20.10	20.81	0.000075	0.11	335.58	414.62	0.04
paggiassu_asta	13.44	PF 3	52.41	19.96	20.87	20.11	20.87	0.000079	0.12	360.47	414.62	0.04
paggiassu_asta	13.44	PF 4	61.99	19.96	20.96	20.13	20.96	0.000079	0.13	397.75	414.62	0.04

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Modello 6 – Gruppo rio Calabona

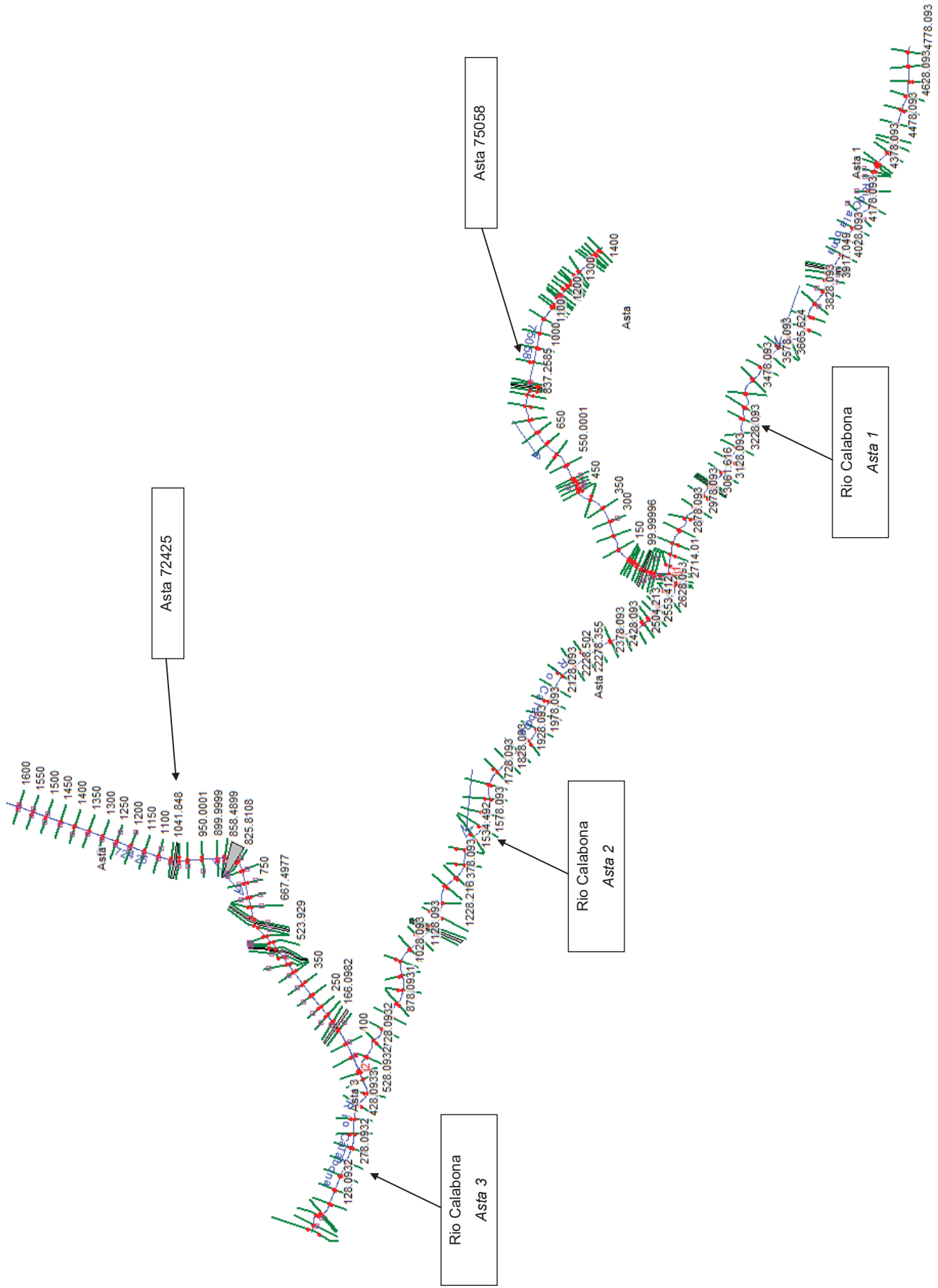
Aste torrentizie studiate:

asta 72425
asta 75058
rio Calabona

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

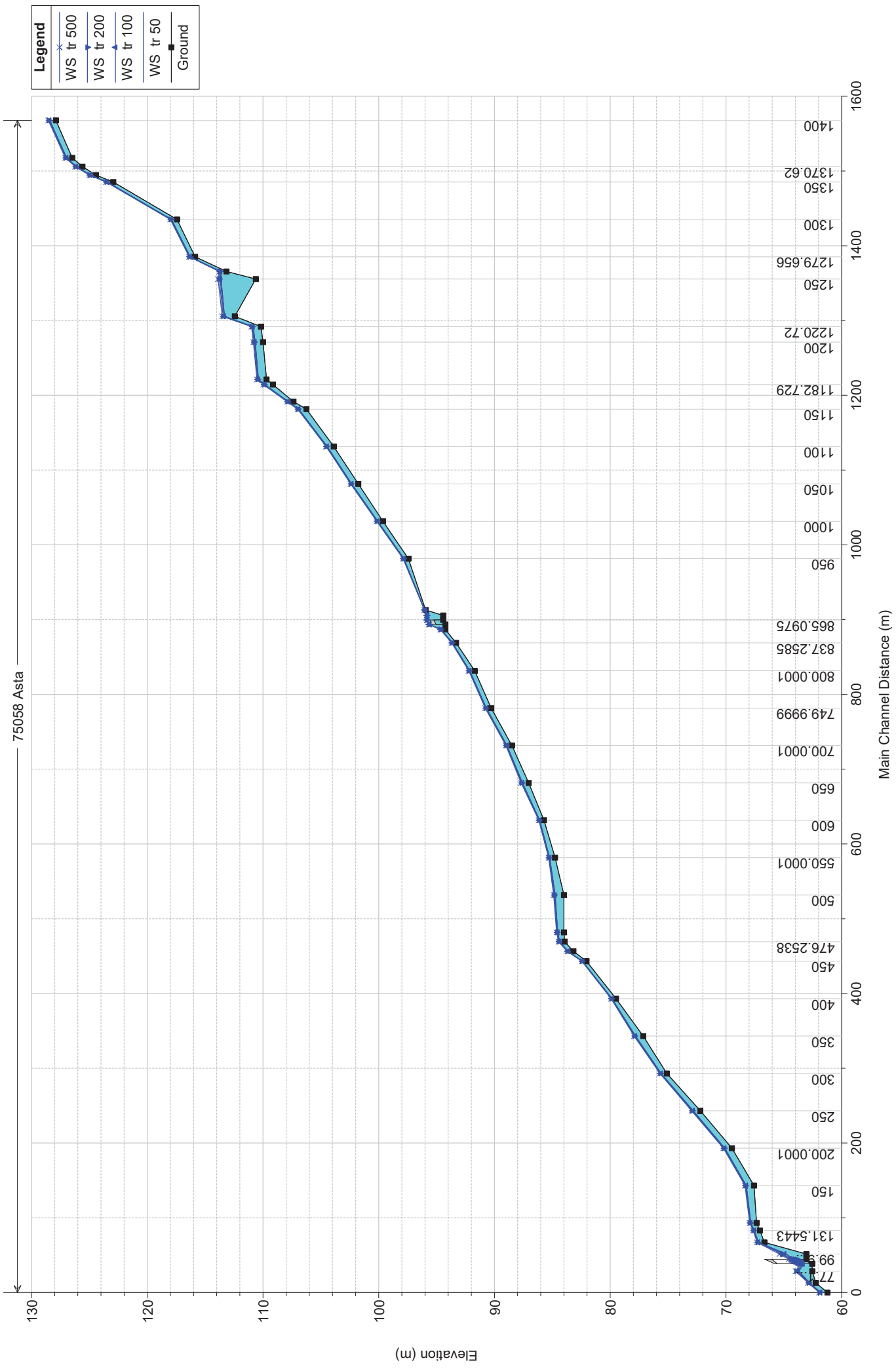
River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
72425	Asta	1600	13,778	16,237	18,723	22,065
72425	Asta	8,258,108	23,862	28,213	32,607	38,491
72425	Asta	6,009,209	25.66	30.43	35.25	41,686
75058	Asta	1400	8,061	9,321	10,601	12,368
Rio Calabona	Asta 1	4,778,093	24,307	28,808	33,383	39,599
Rio Calabona	Asta 2	2,718,168	40,097	47,824	55,655	66.15
Rio Calabona	Asta 3	6,041,613	62.72	74,765	86,957	103,239

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
72425	Asta	all	Critical Depth	Junction=j2
75058	Asta	all	Critical Depth	Junction=j1
Rio Calabona	Asta 1	all	Critical Depth	Junction=j1
Rio Calabona	Asta 2	all	Junction=j1	Junction=j2
Rio Calabona	Asta 3	all	Junction=j2	Known WS



calabona19092017 Plan: Plan 02 6/22/2021

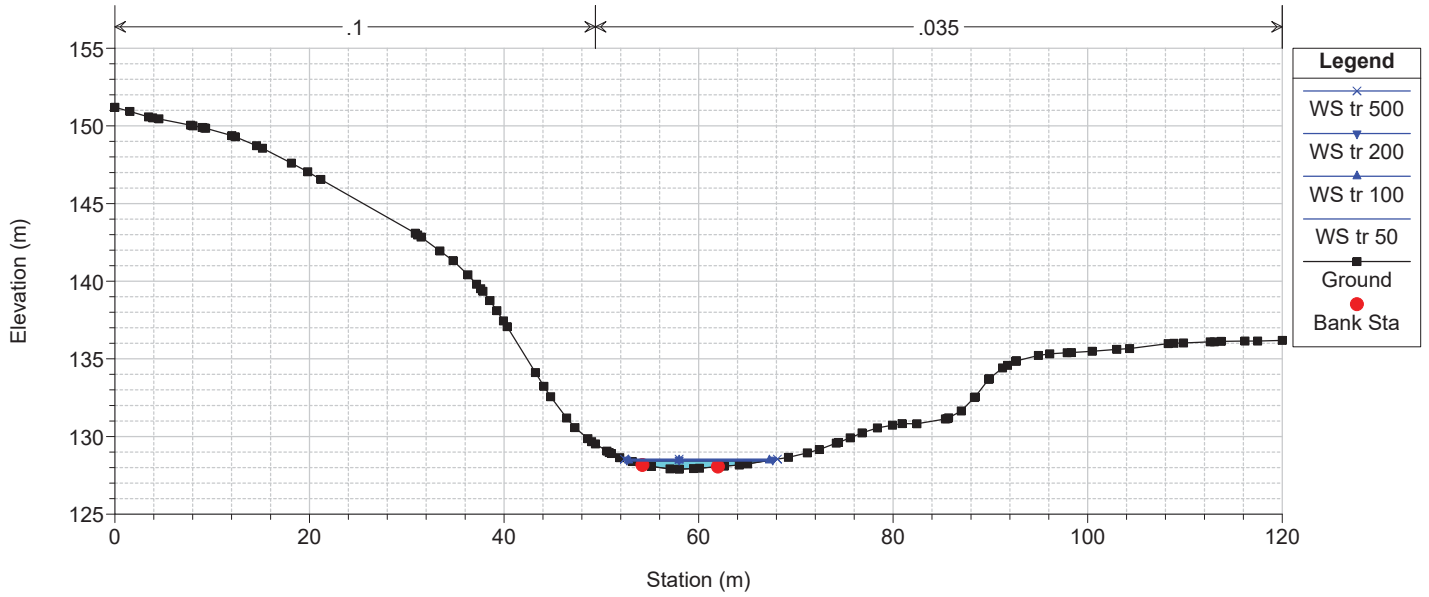
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calabona19092017 Plan: Plan 02 6/22/2021

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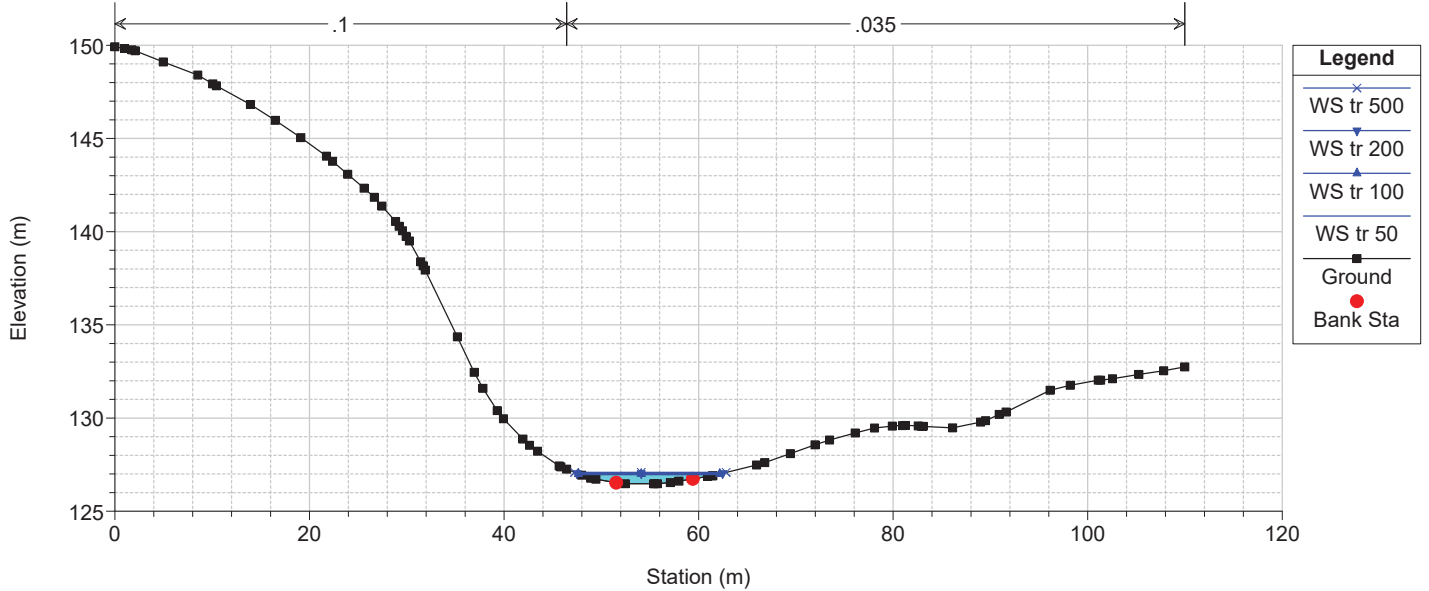
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calabona19092017 Plan: Plan 02 6/22/2021

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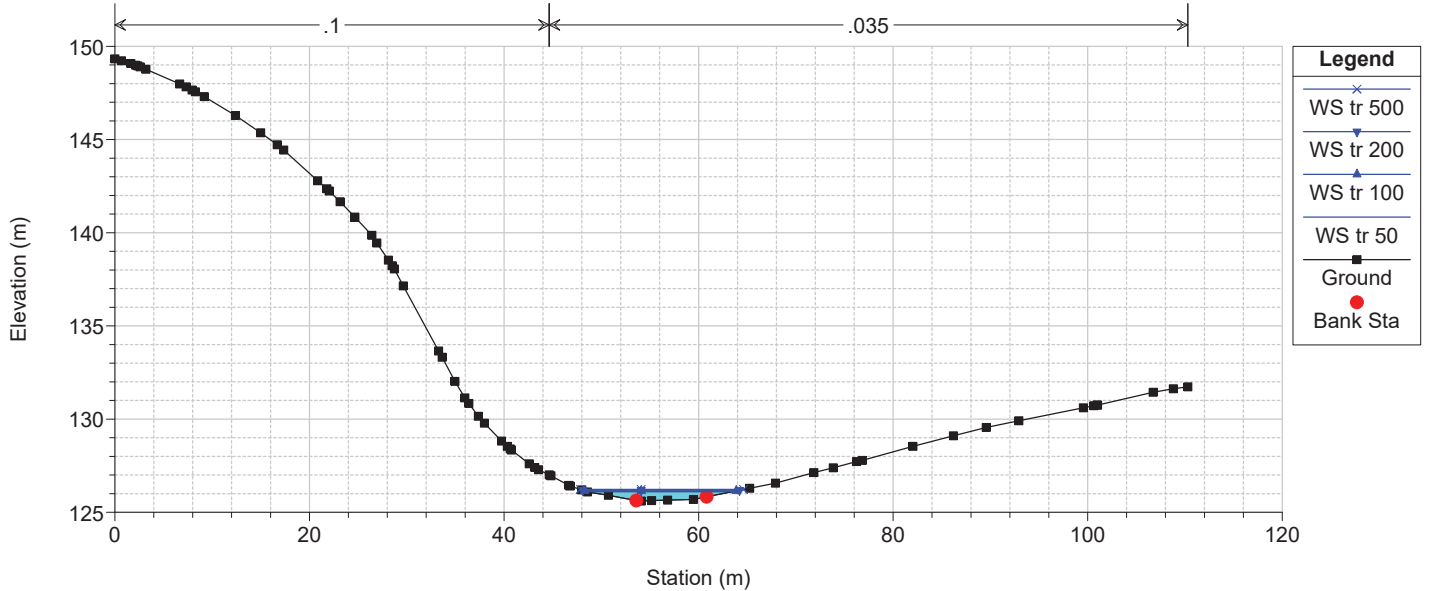
River = 75058 Reach = Asta RS = 1382.442 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

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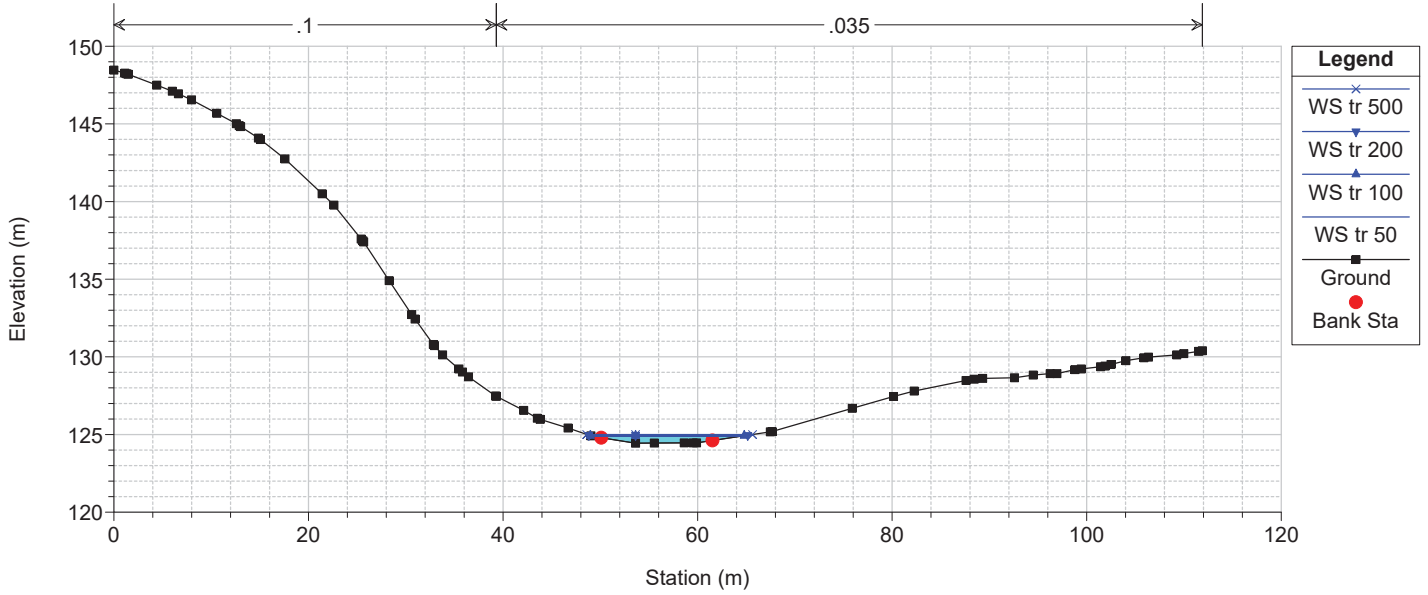
River = 75058 Reach = Asta RS = 1370.62 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

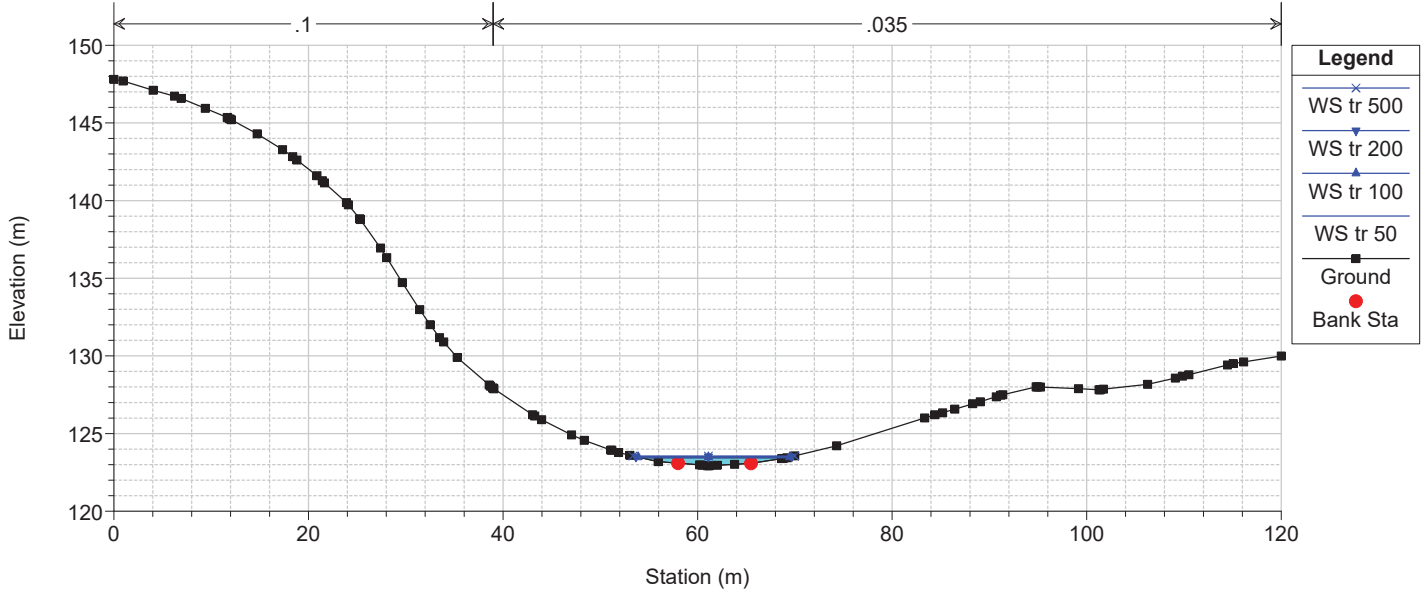
River = 75058 Reach = Asta RS = 1359.317 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

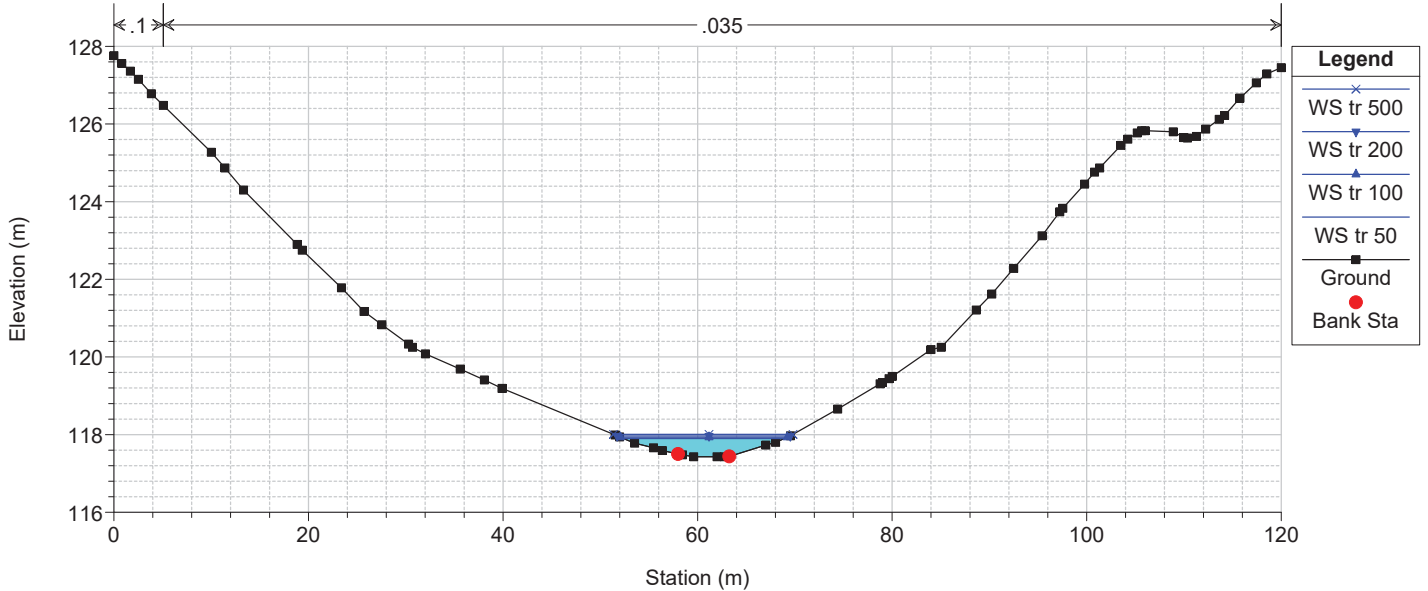
River = 75058 Reach = Asta RS = 1350 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

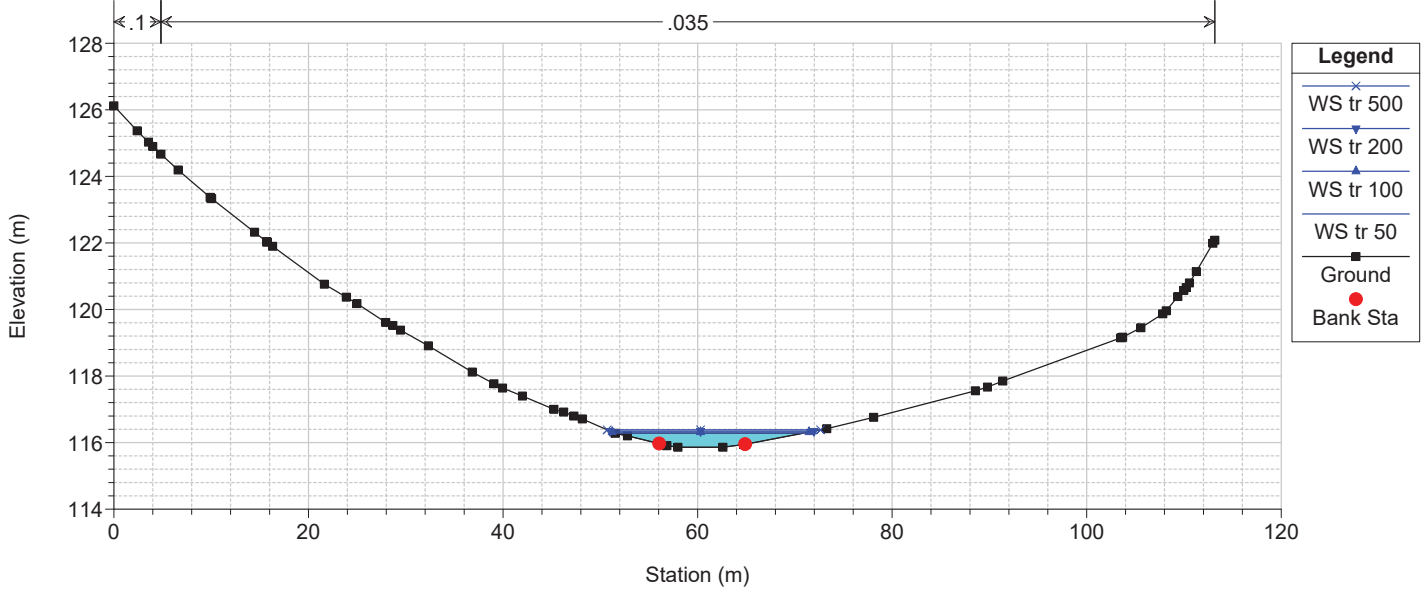
River = 75058 Reach = Asta RS = 1300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

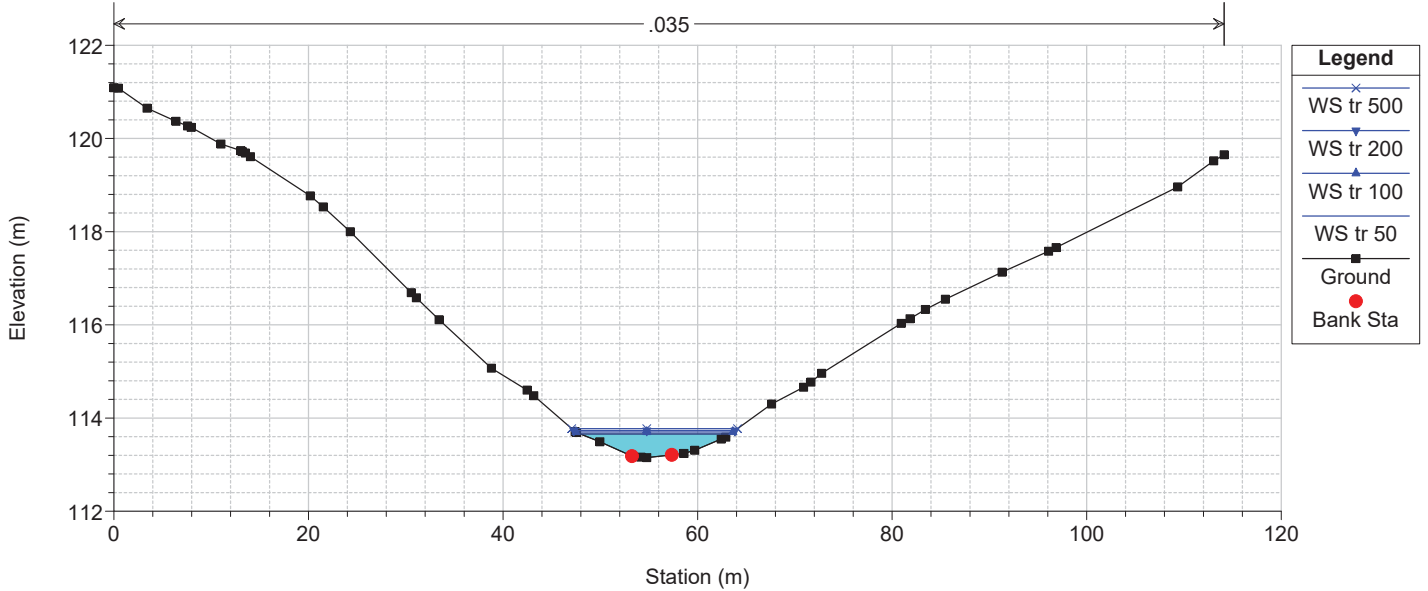
River = 75058 Reach = Asta RS = 1279.656 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

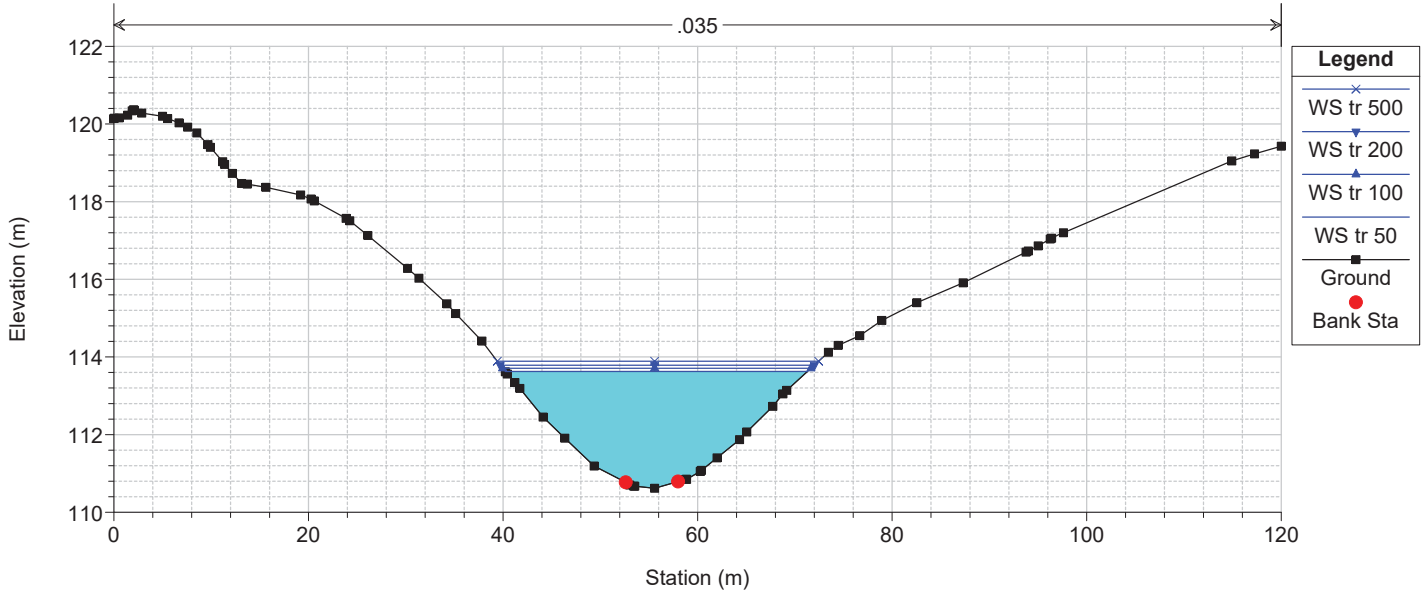
River = 75058 Reach = Asta RS = 1260.045 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

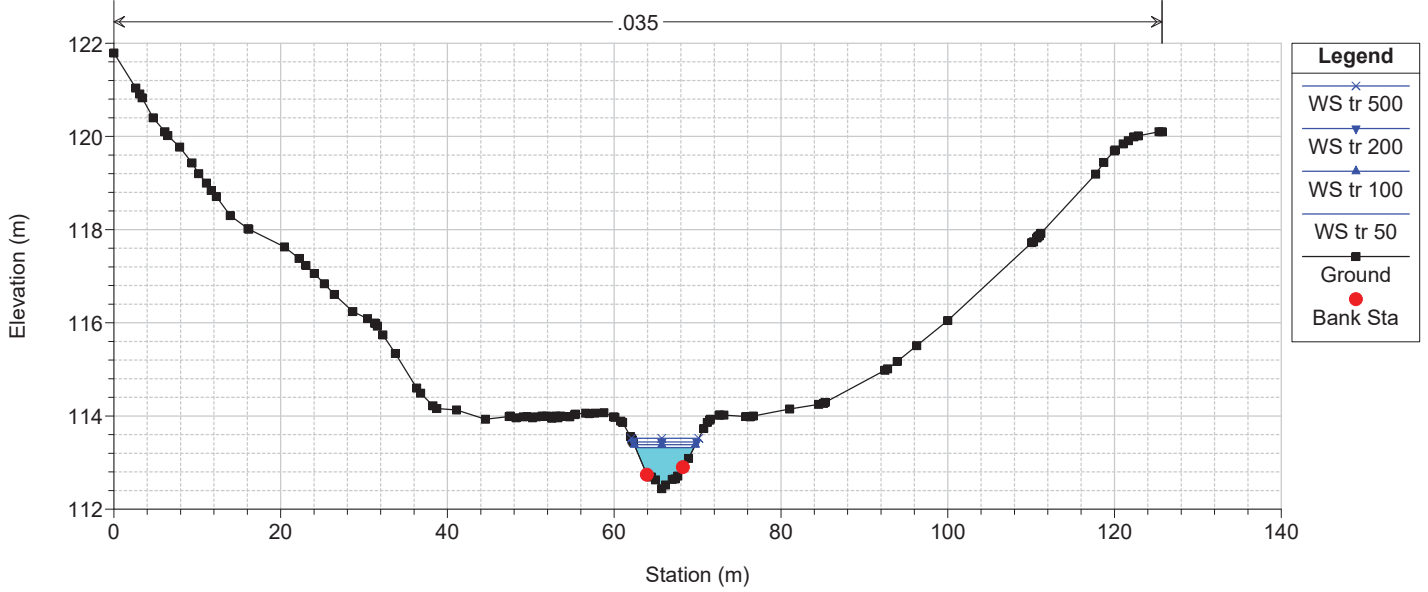
River = 75058 Reach = Asta RS = 1250 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

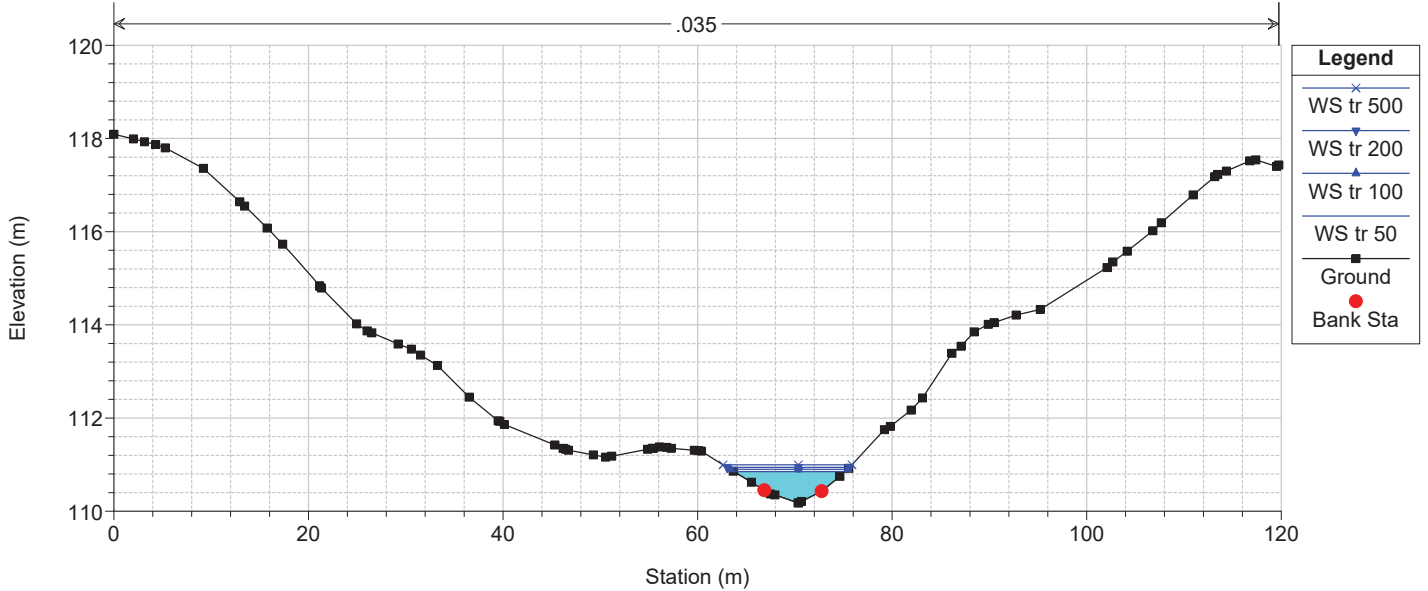
River = 75058 Reach = Asta RS = 1234.441 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

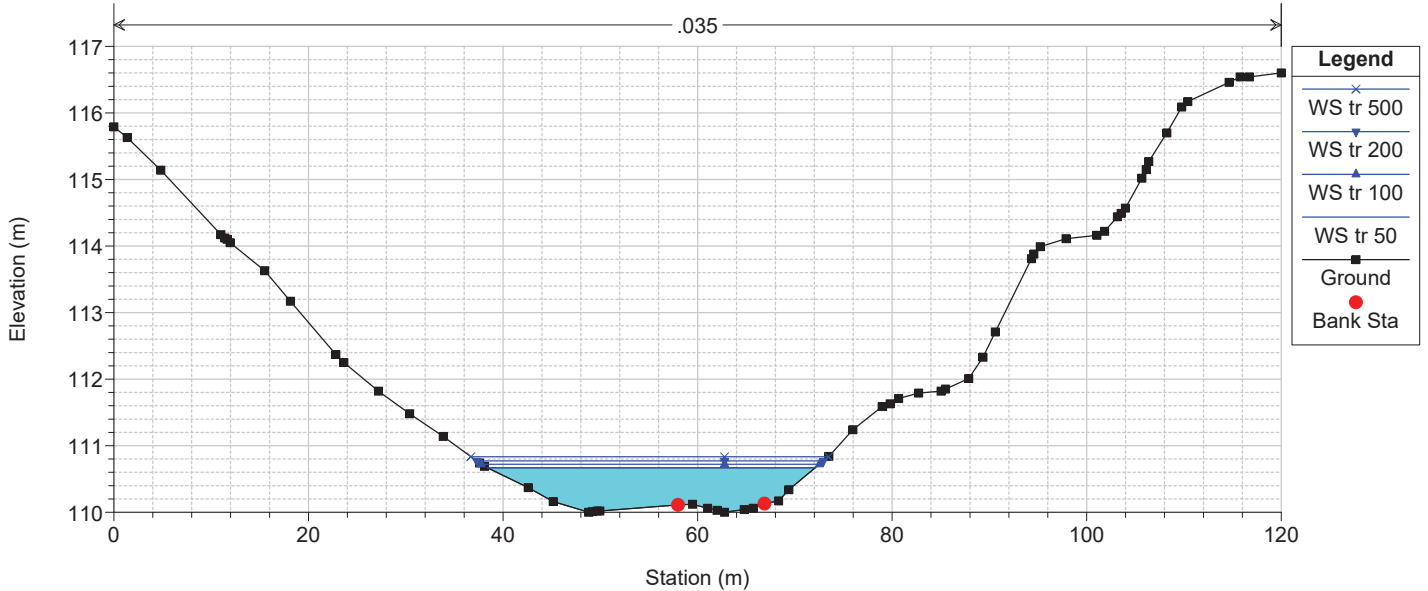
River = 75058 Reach = Asta RS = 1220.72 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

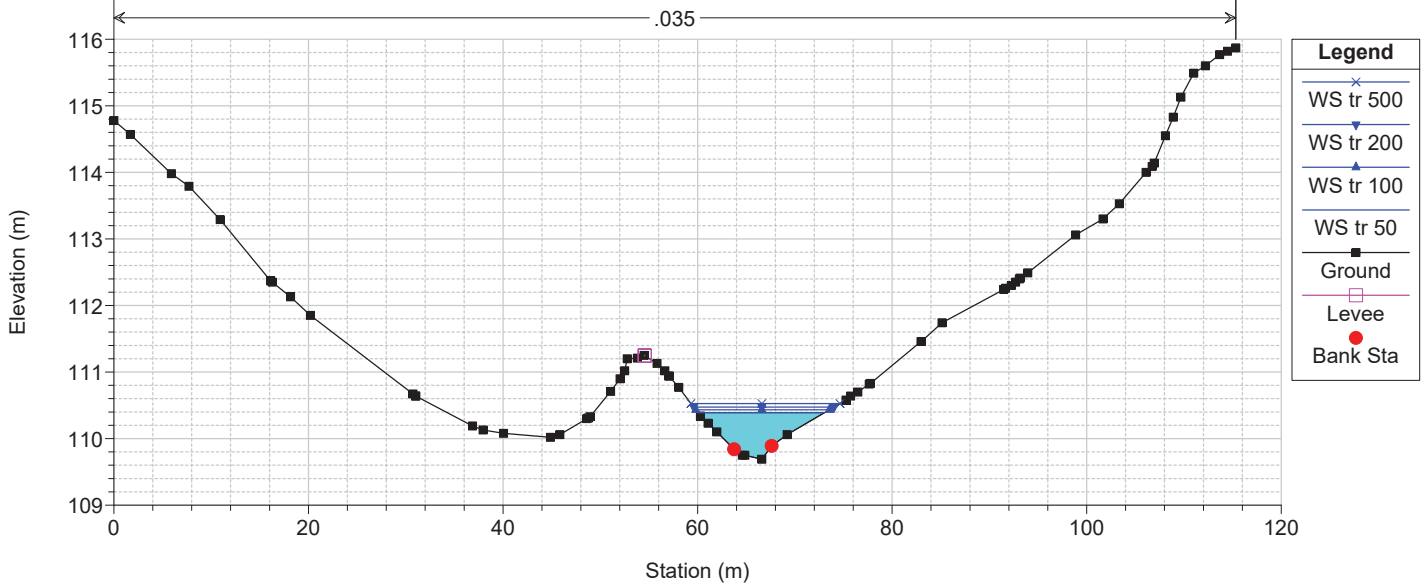
River = 75058 Reach = Asta RS = 1200 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

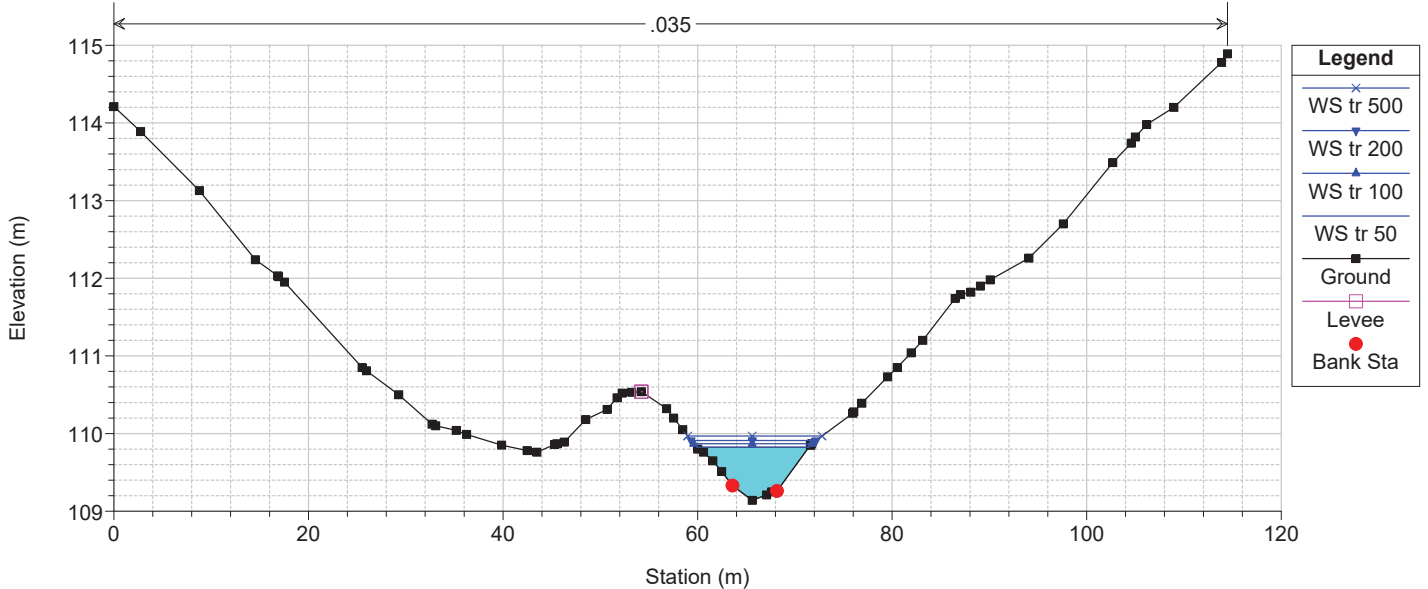
River = 75058 Reach = Asta RS = 1189.572 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

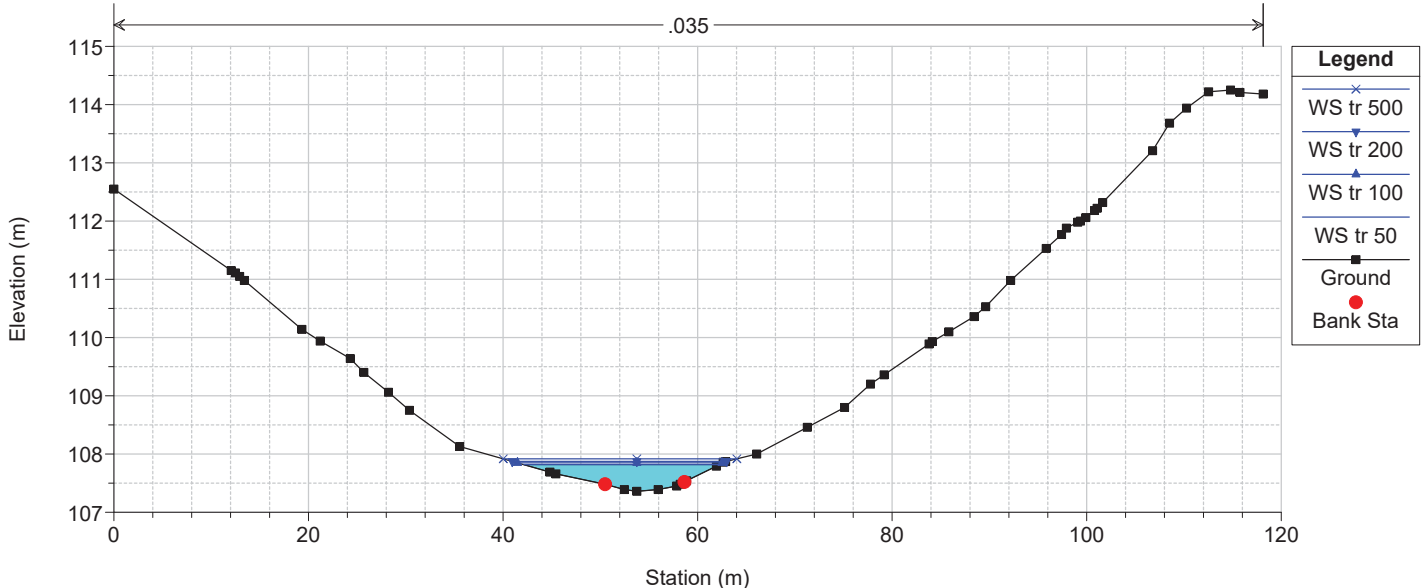
River = 75058 Reach = Asta RS = 1182.729 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

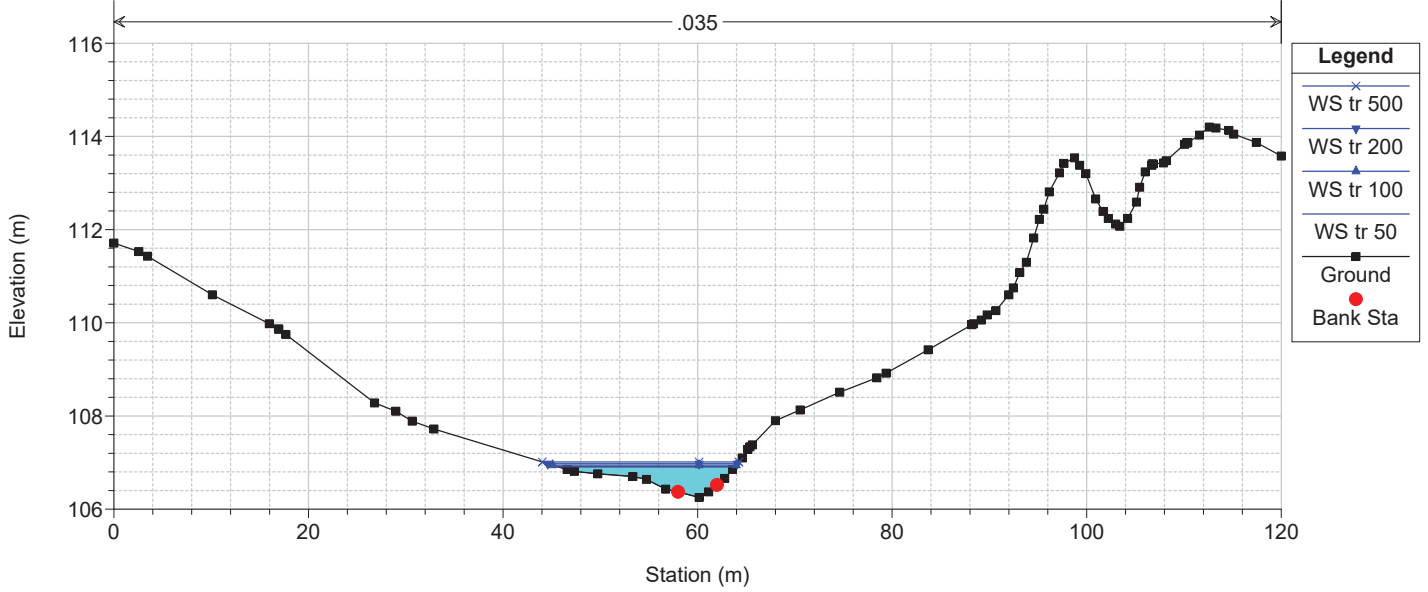
River = 75058 Reach = Asta RS = 1159.919 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

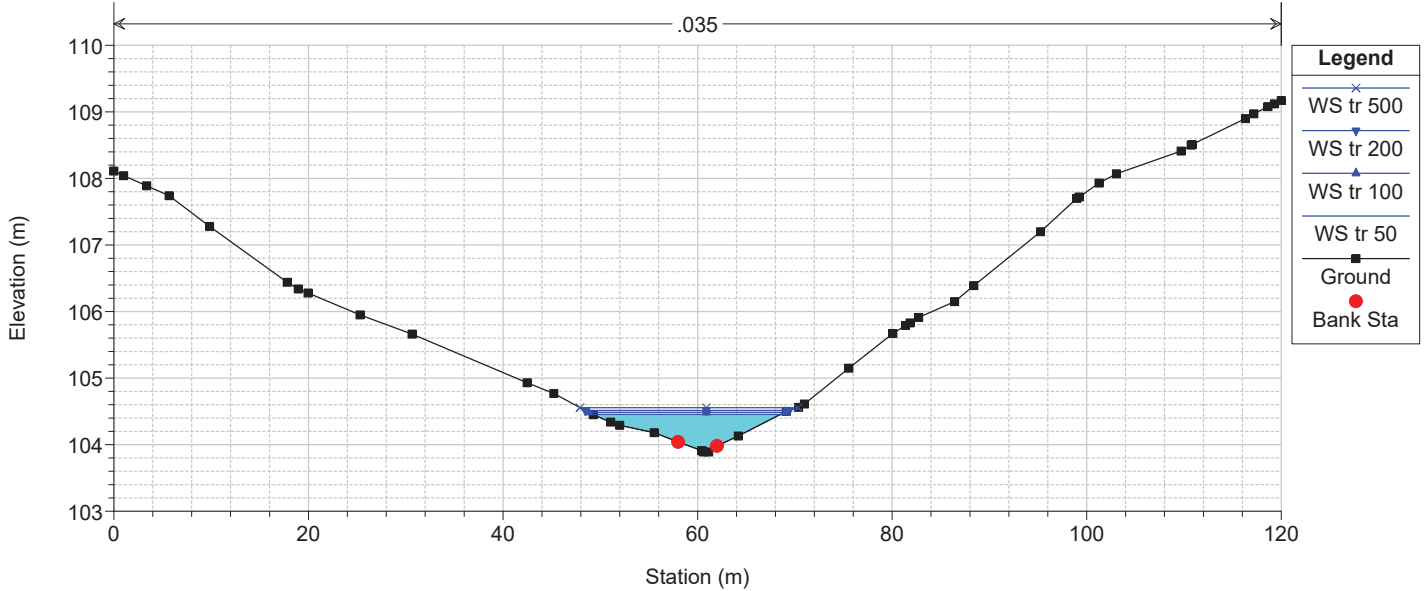
River = 75058 Reach = Asta RS = 1150 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

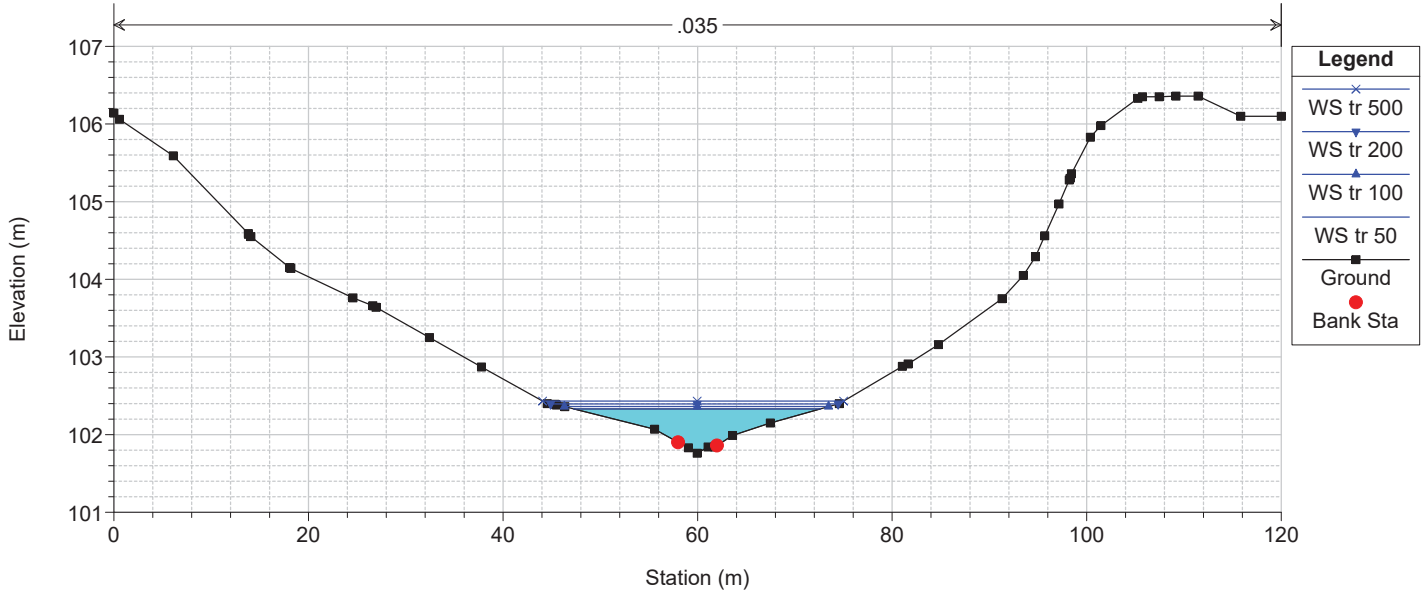
River = 75058 Reach = Asta RS = 1100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

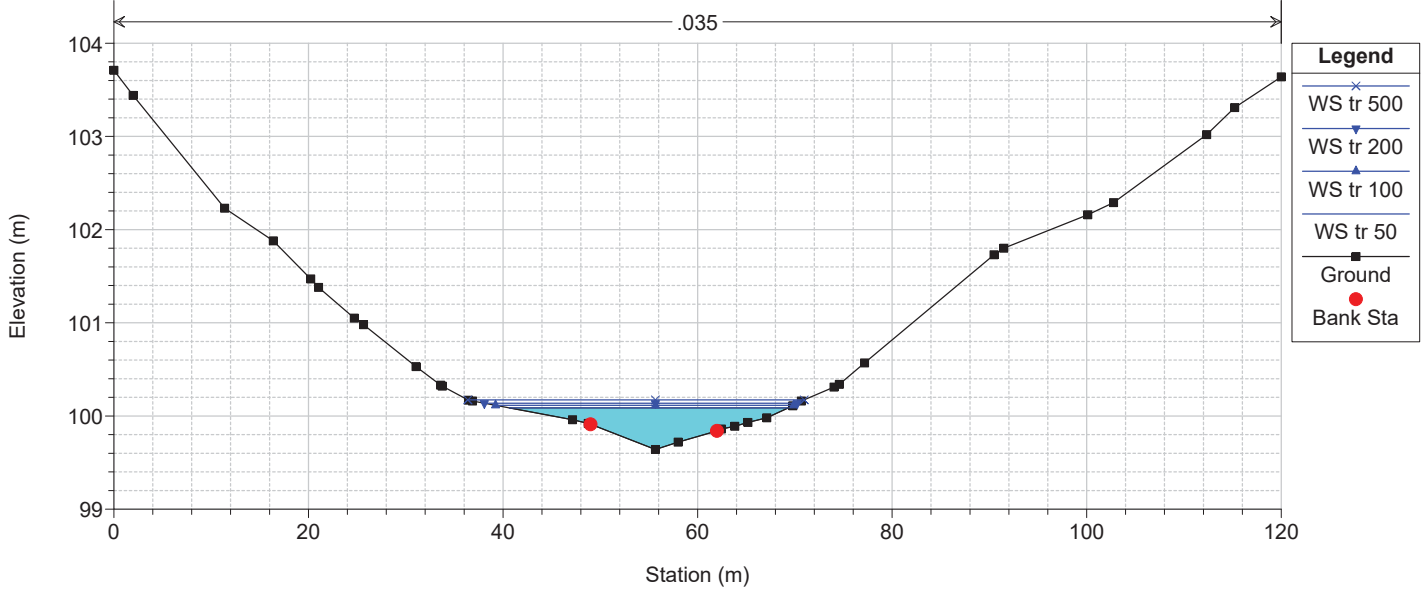
River = 75058 Reach = Asta RS = 1050 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

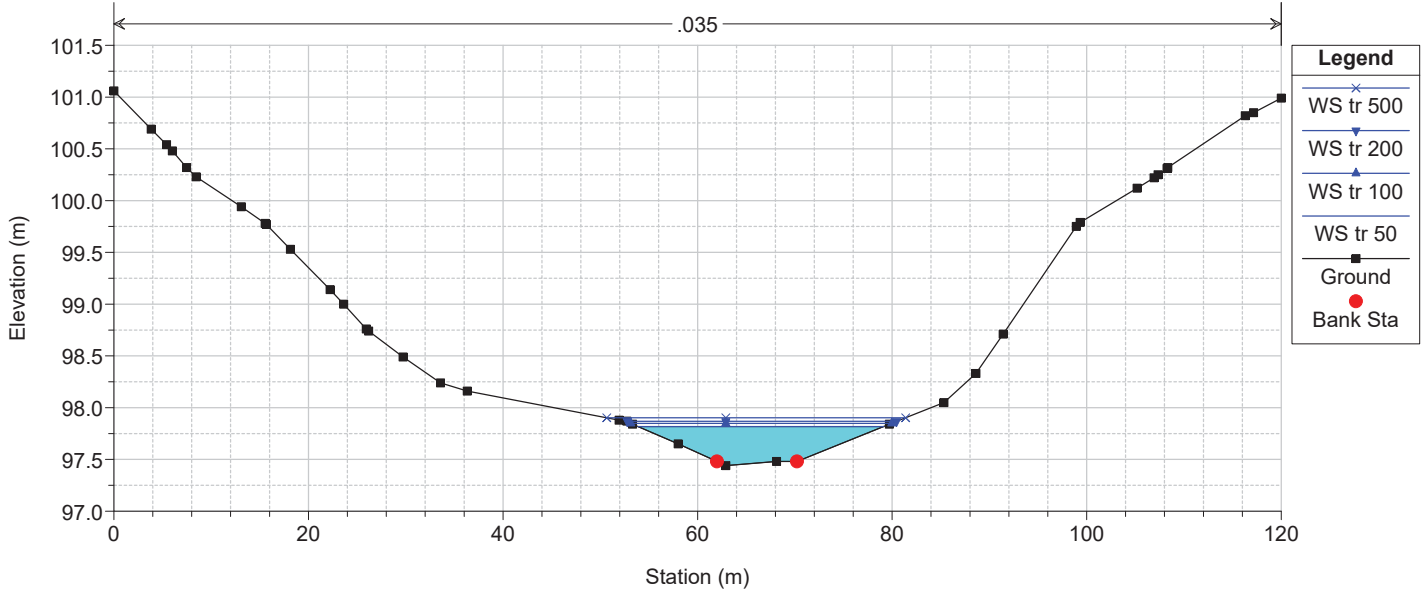
River = 75058 Reach = Asta RS = 1000 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

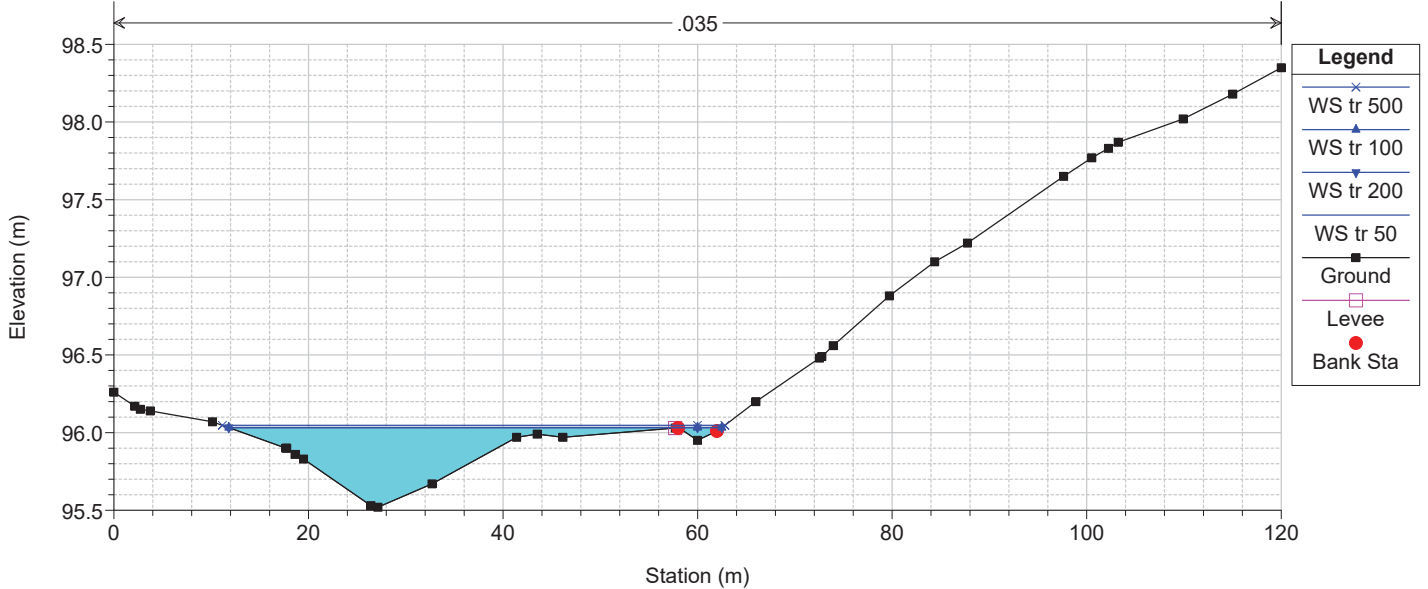
River = 75058 Reach = Asta RS = 950 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

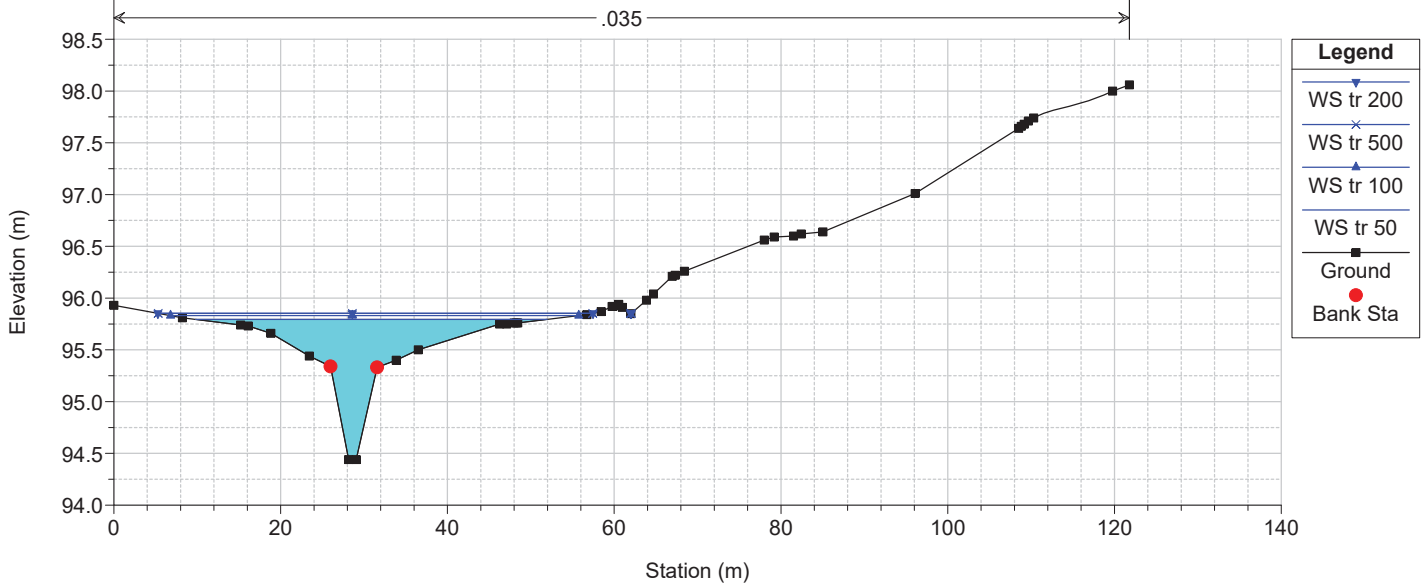
River = 75058 Reach = Asta RS = 881.3658 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

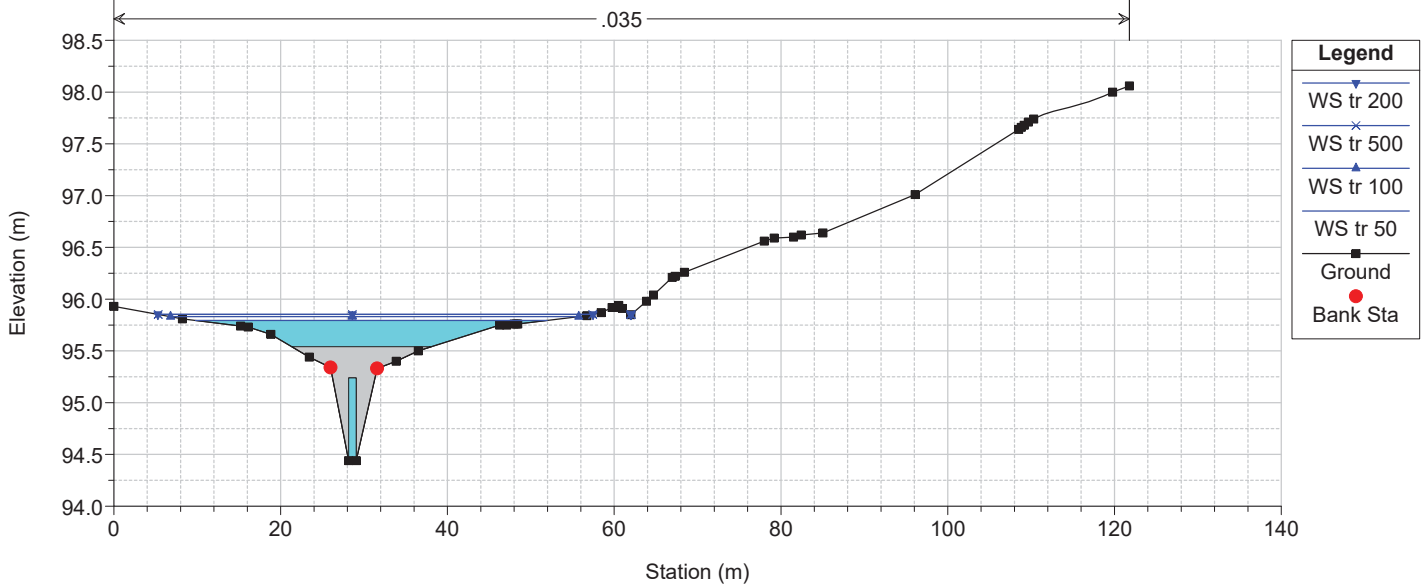
River = 75058 Reach = Asta RS = 873.9232 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

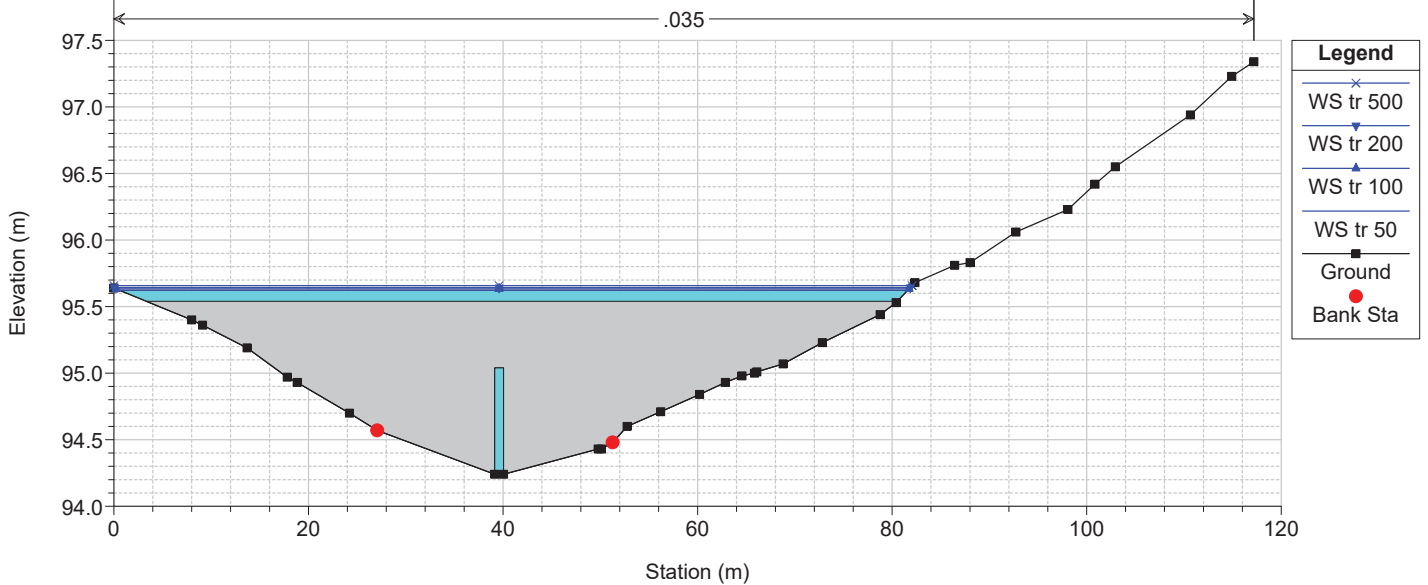
River = 75058 Reach = Asta RS = 865.0975 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

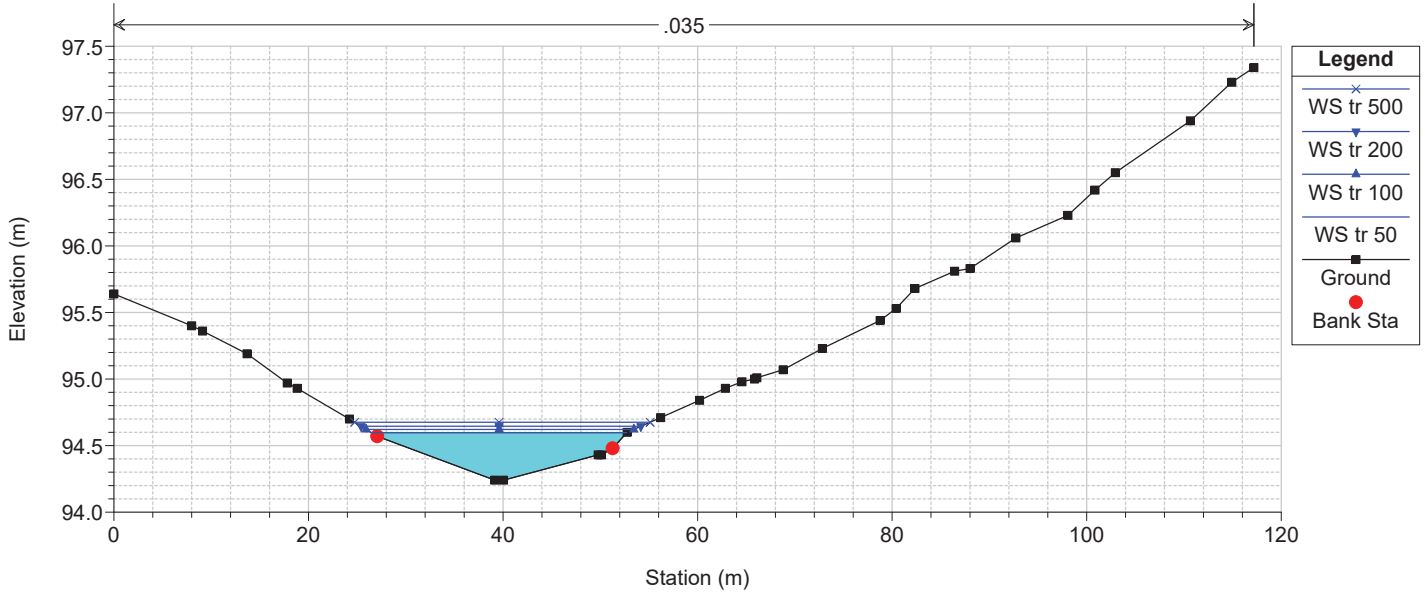
River = 75058 Reach = Asta RS = 865.0975 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

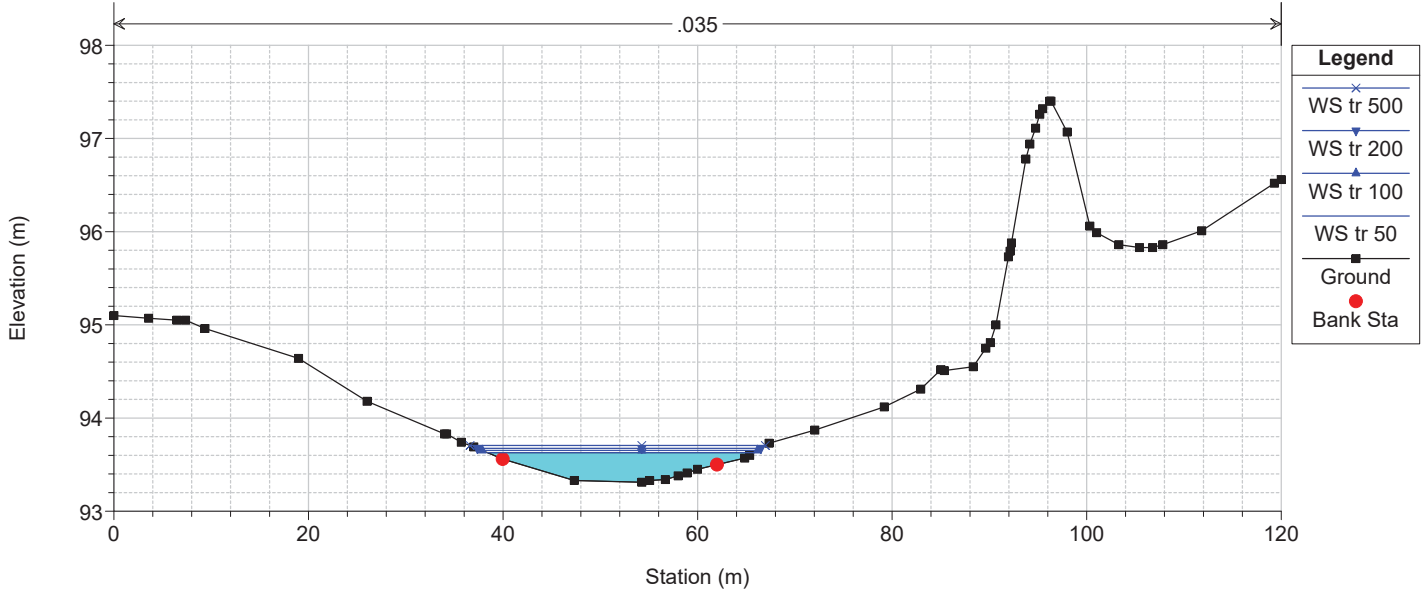
River = 75058 Reach = Asta RS = 855.1509 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

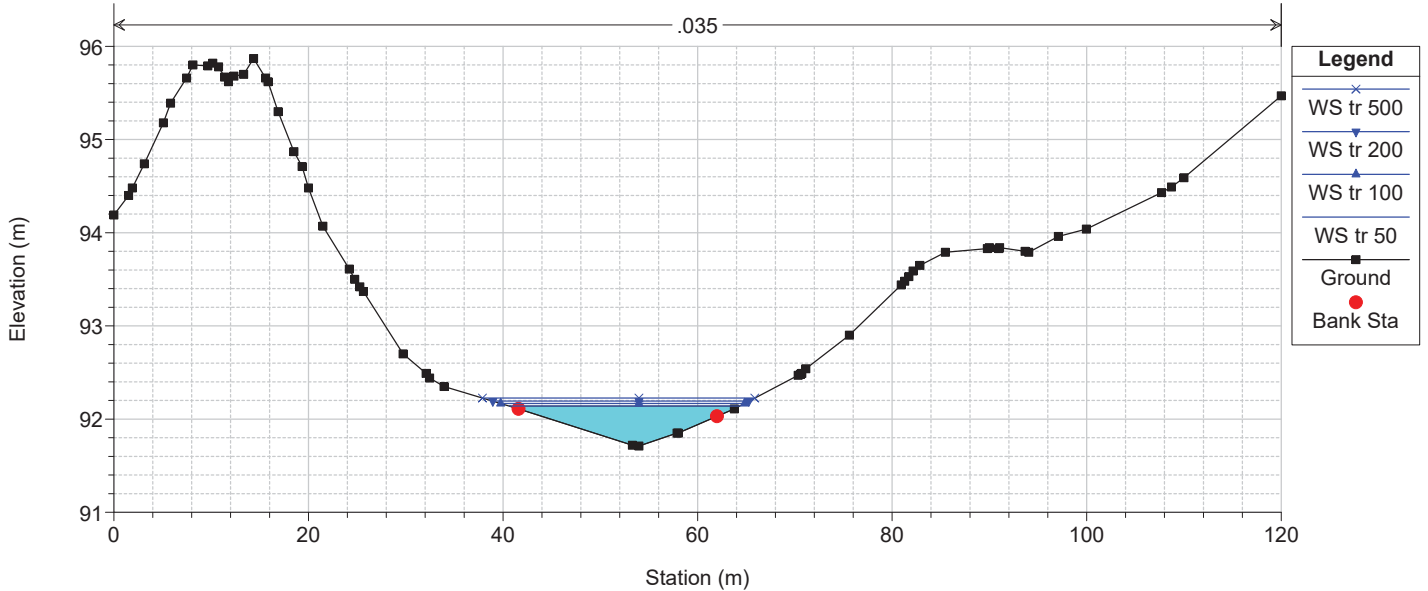
River = 75058 Reach = Asta RS = 837.2585 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

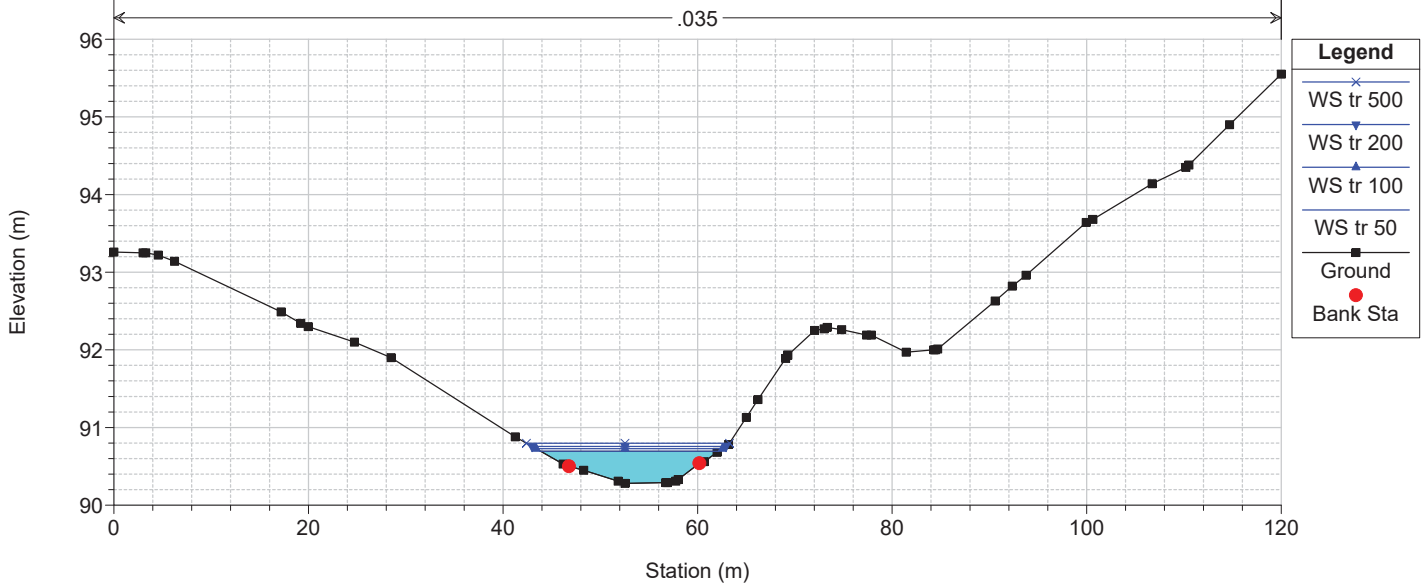
River = 75058 Reach = Asta RS = 800.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

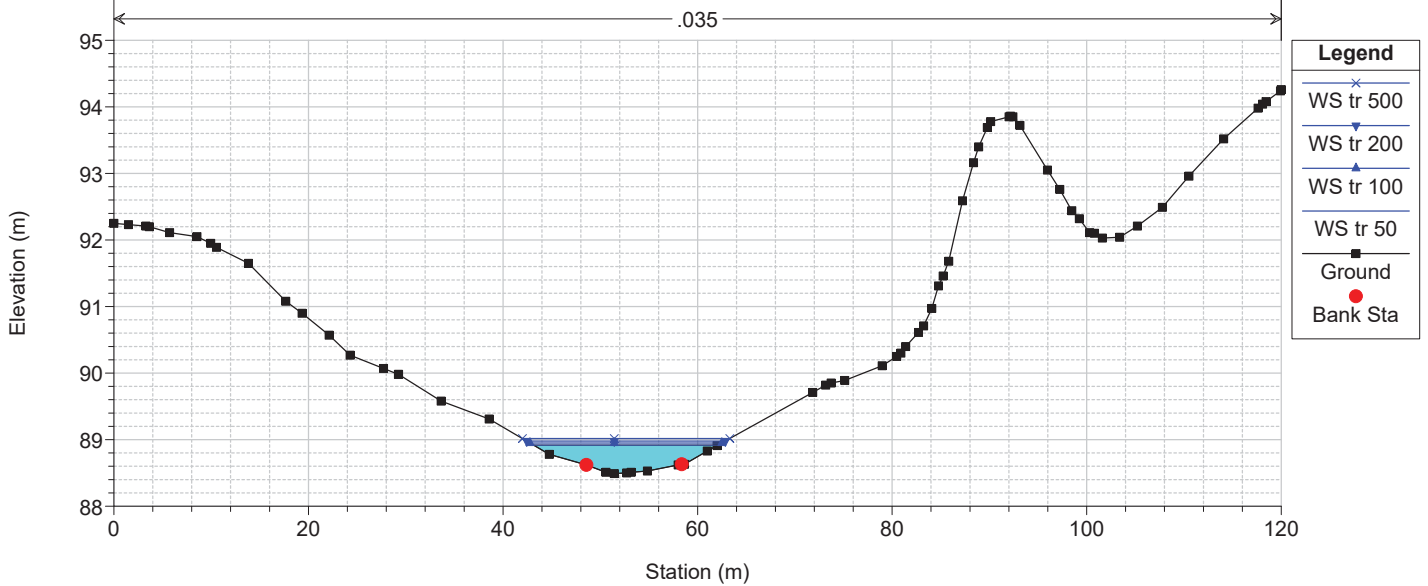
River = 75058 Reach = Asta RS = 749.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

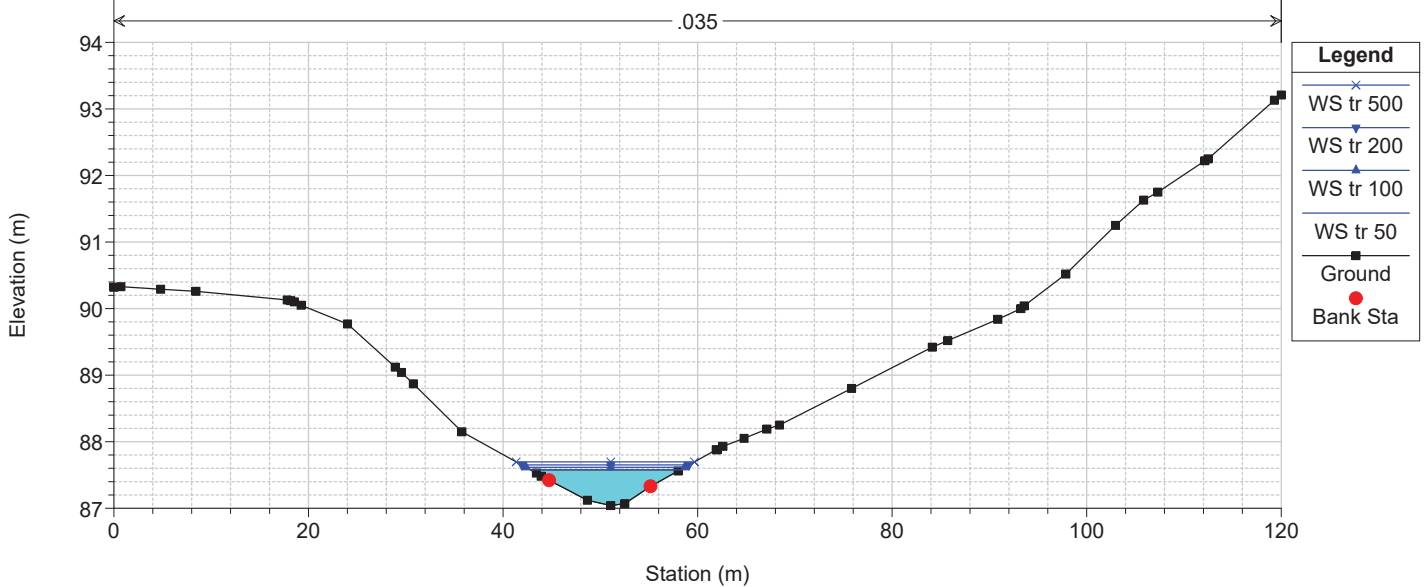
River = 75058 Reach = Asta RS = 700.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

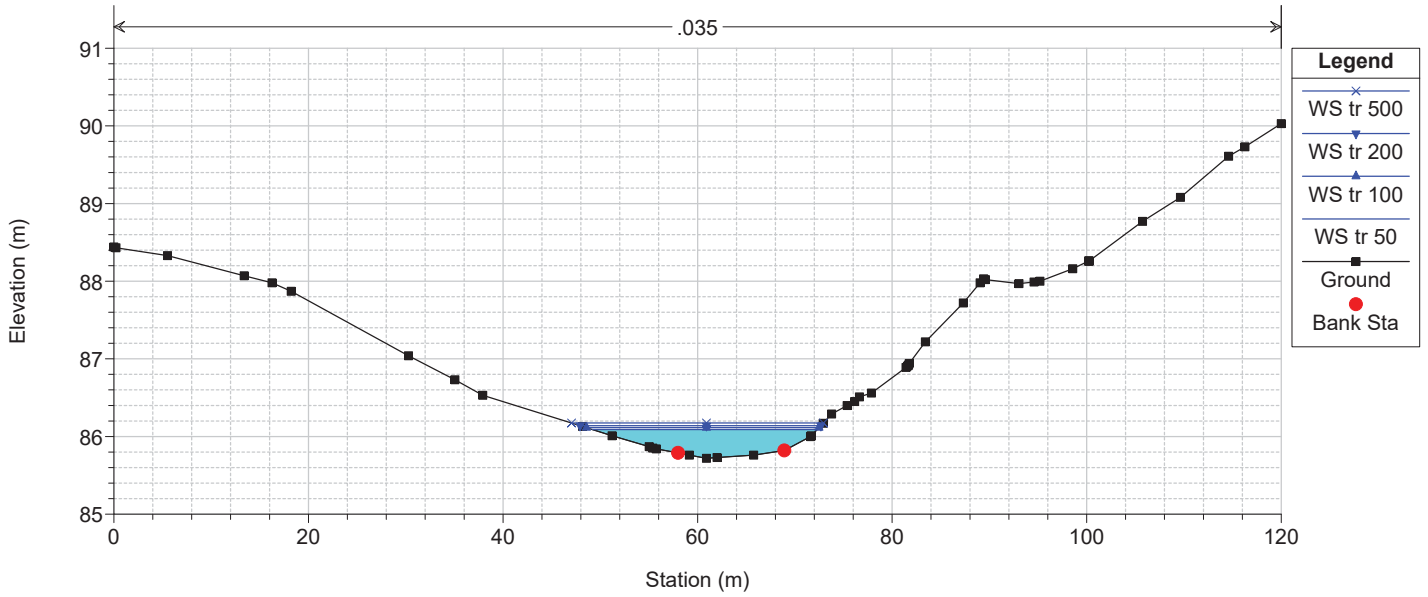
River = 75058 Reach = Asta RS = 650 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

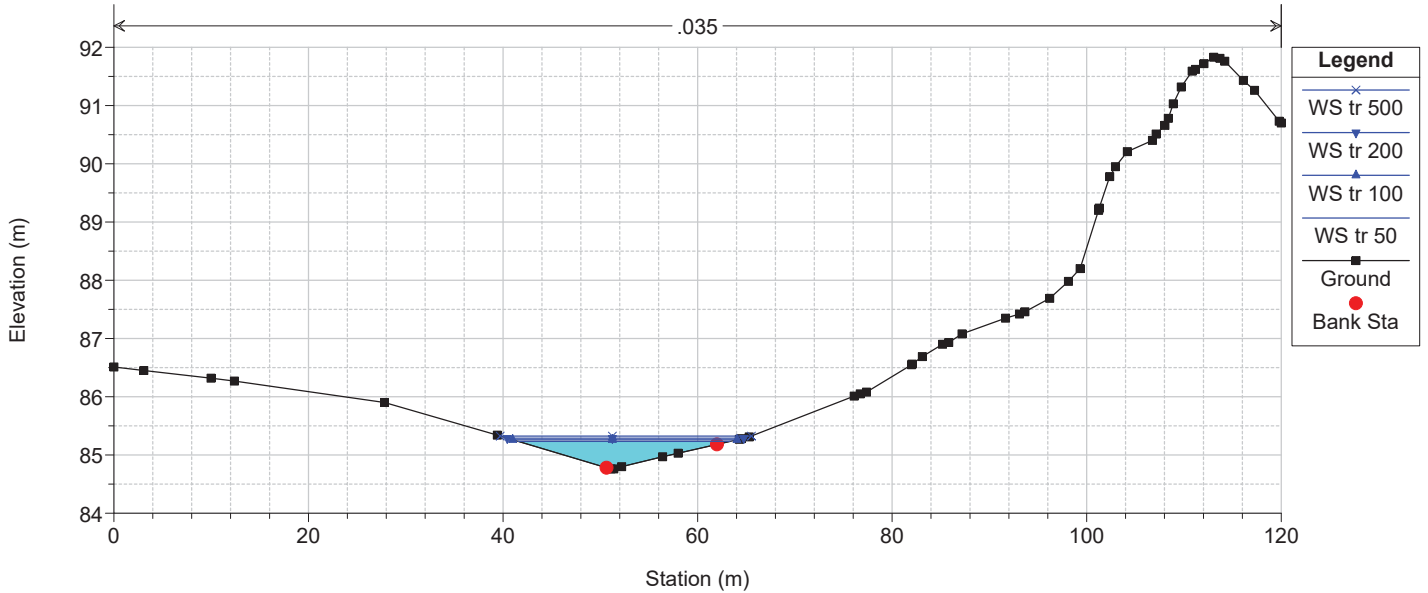
River = 75058 Reach = Asta RS = 600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

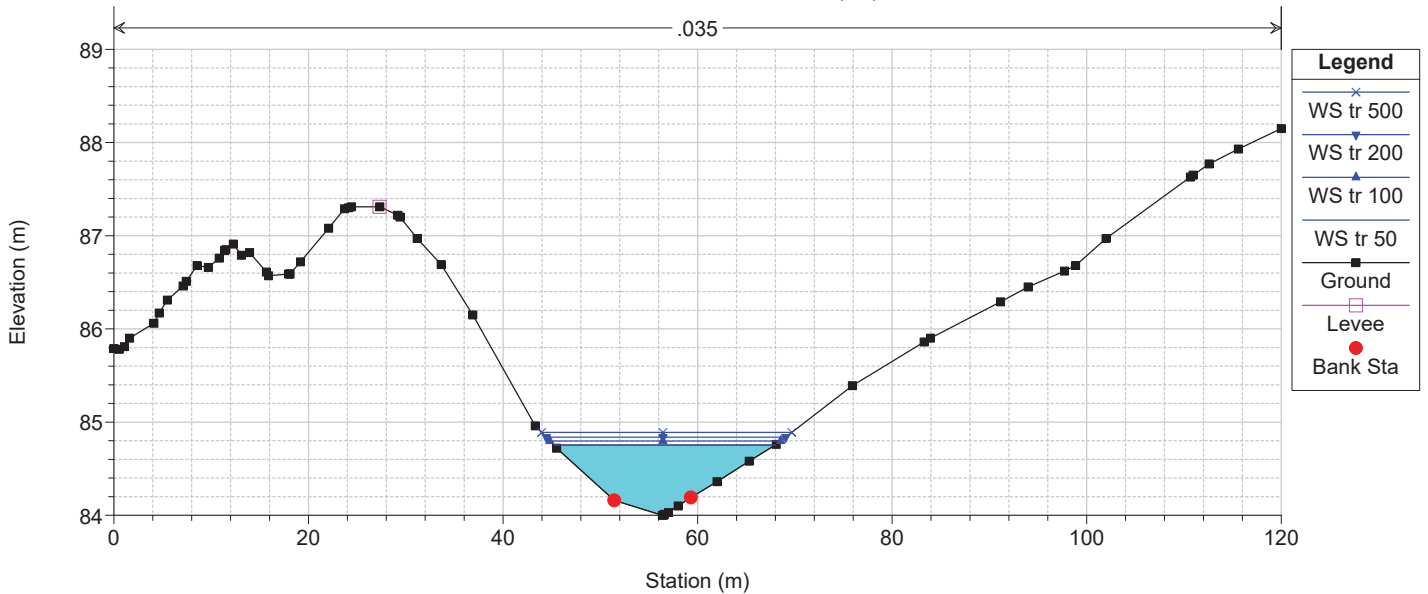
River = 75058 Reach = Asta RS = 550.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

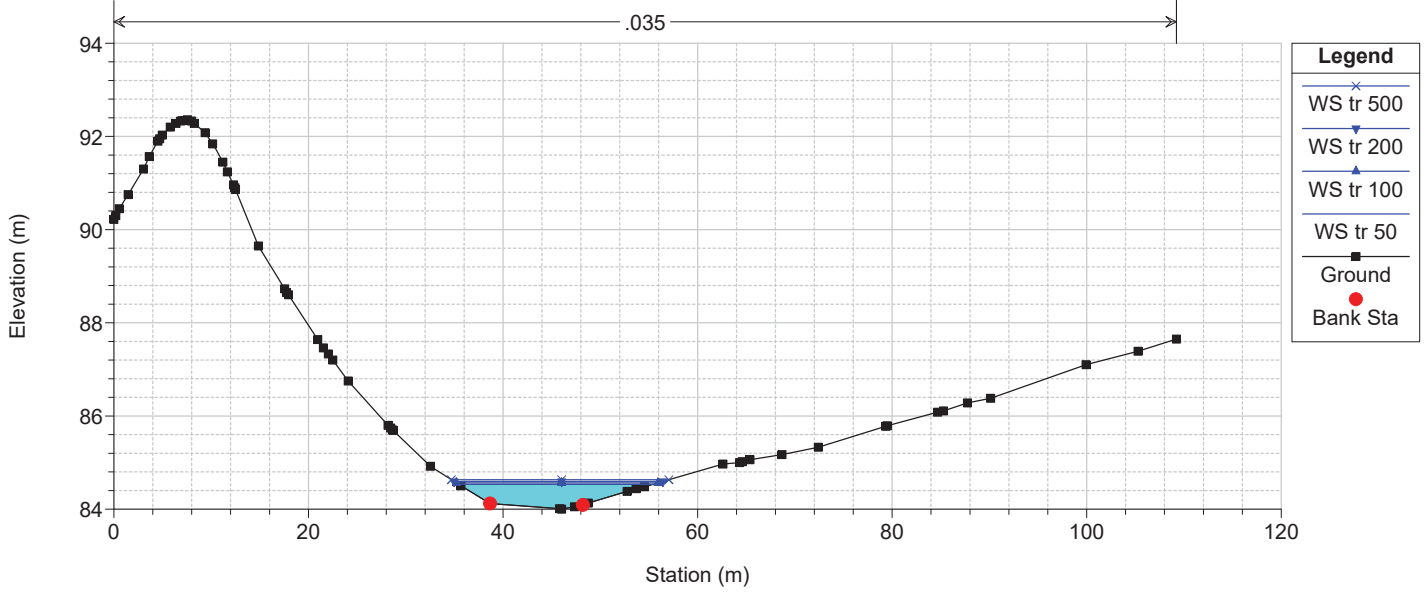
River = 75058 Reach = Asta RS = 500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

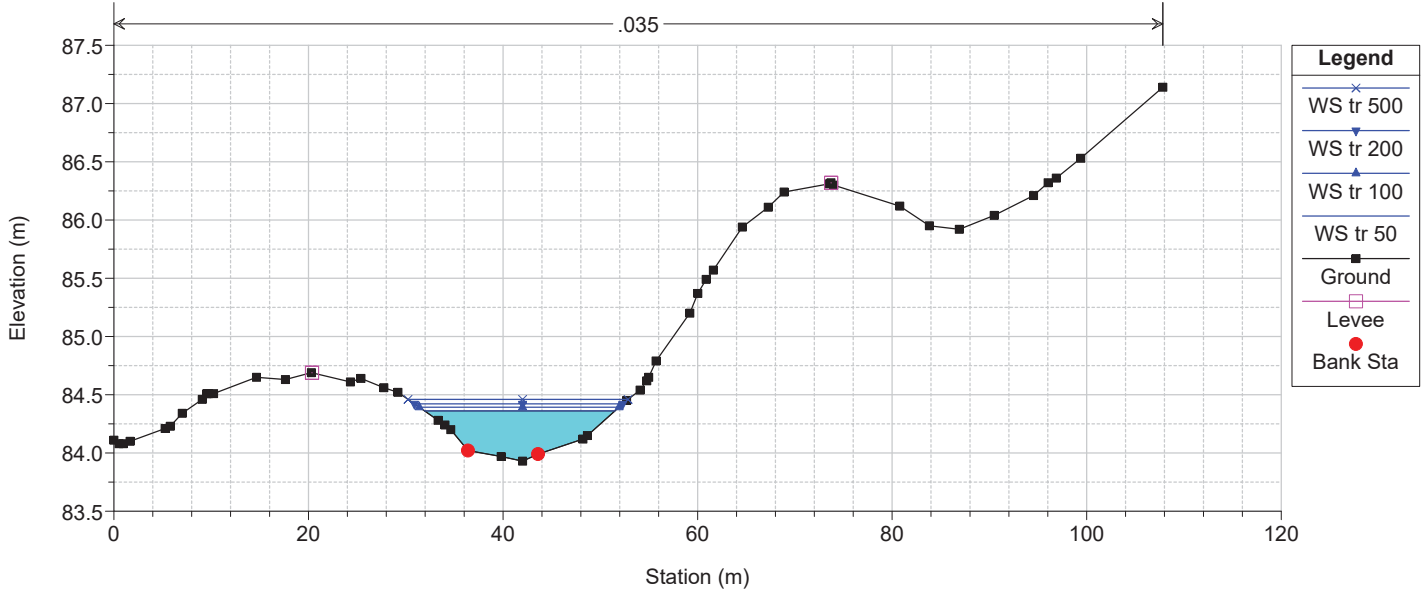
River = 75058 Reach = Asta RS = 488.6261 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

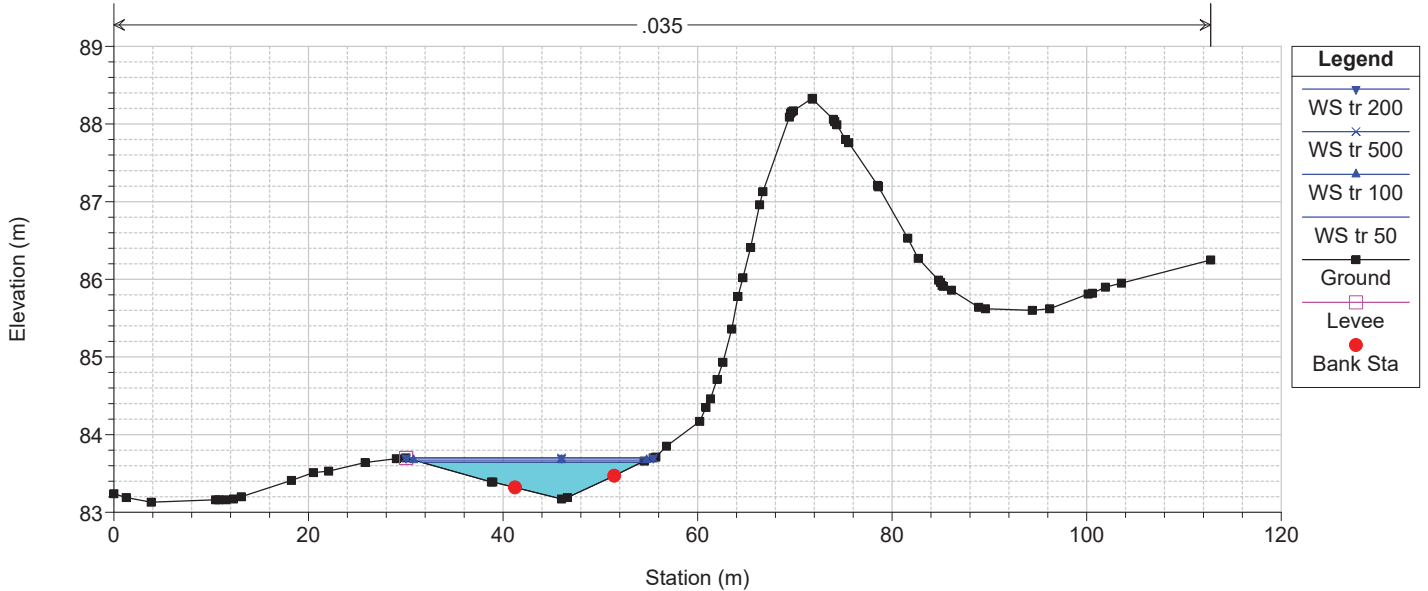
River = 75058 Reach = Asta RS = 476.2538 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

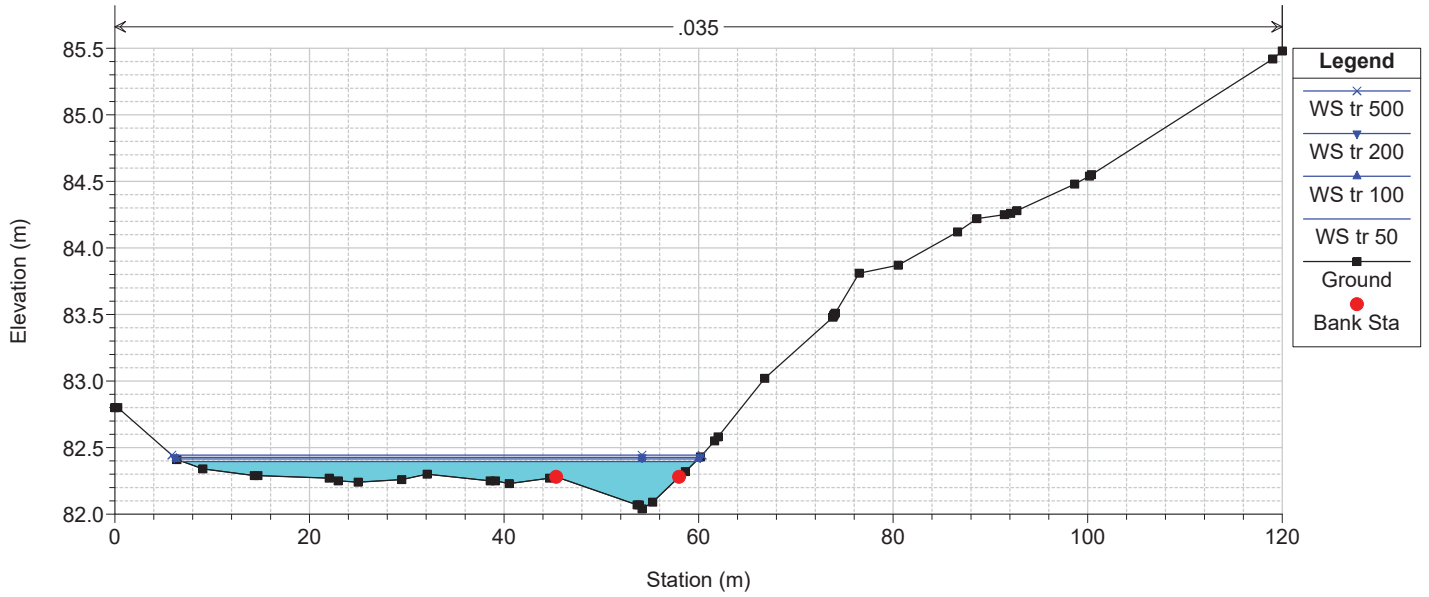
River = 75058 Reach = Asta RS = 463.34 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

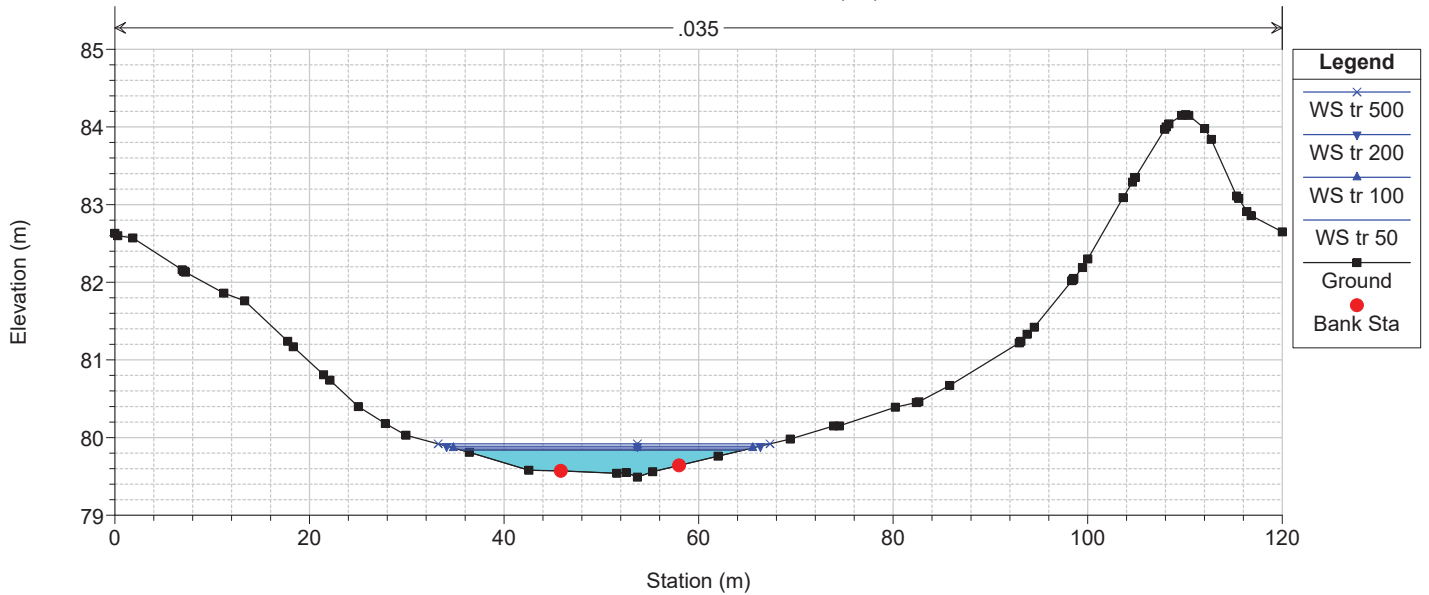
River = 75058 Reach = Asta RS = 450 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

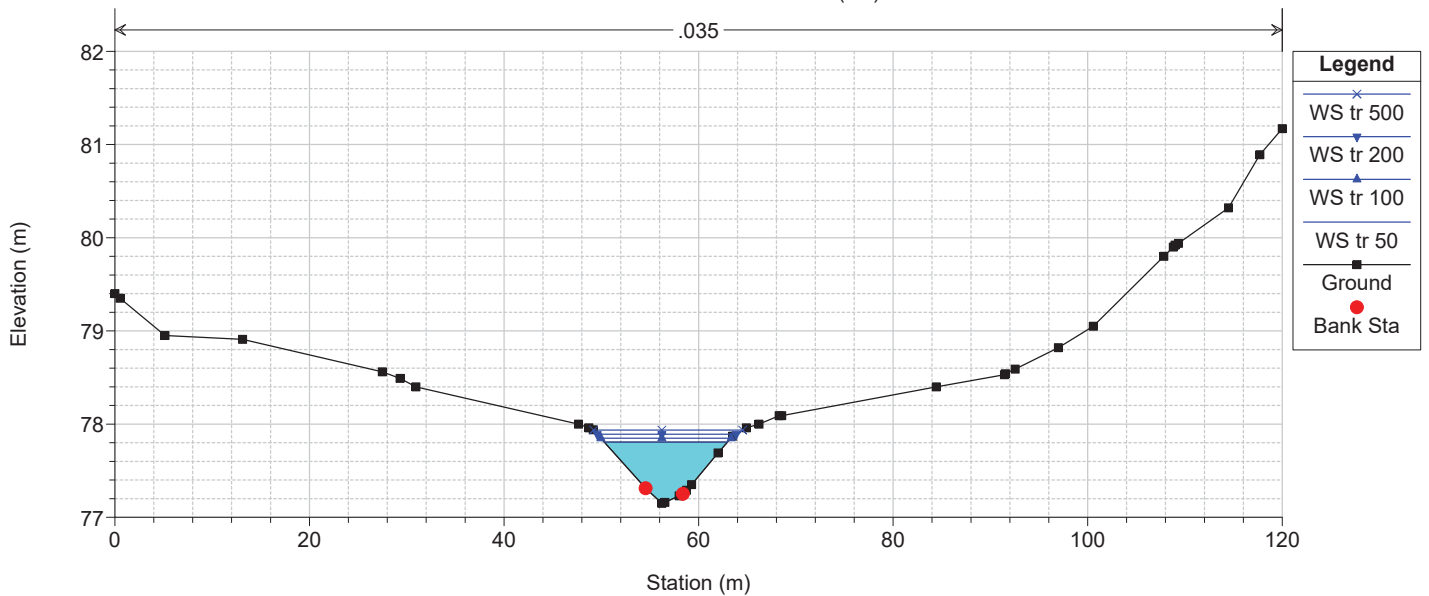
River = 75058 Reach = Asta RS = 400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

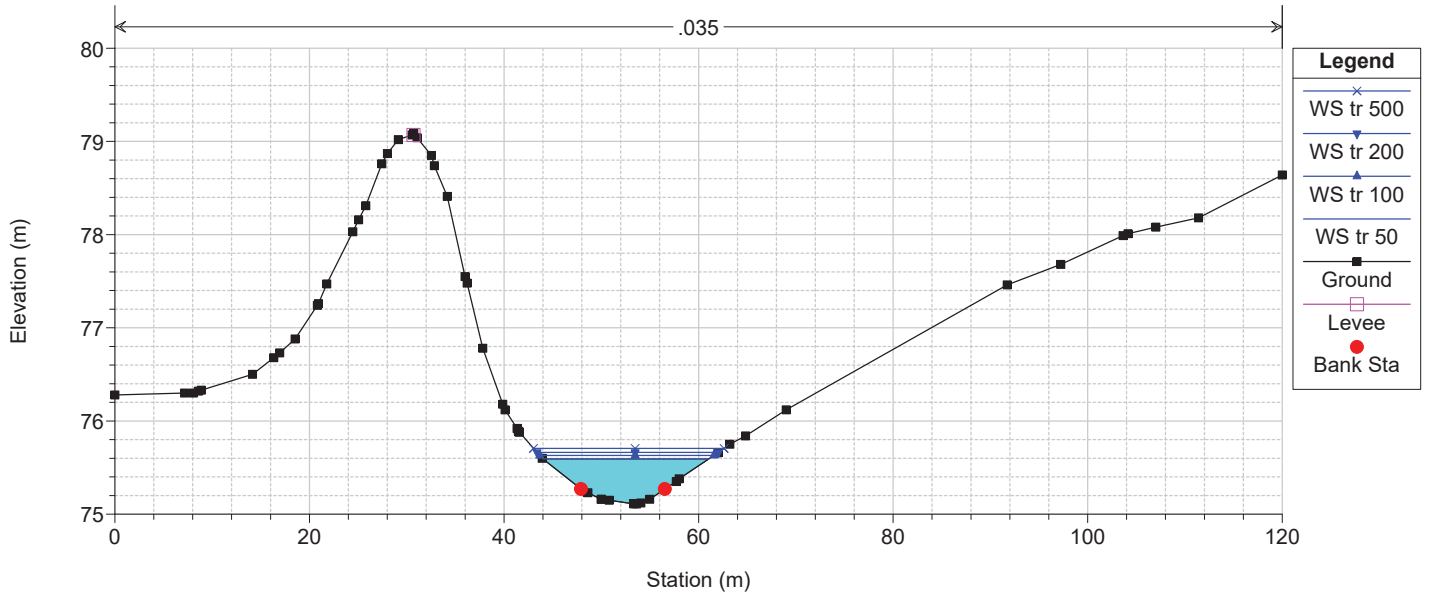
River = 75058 Reach = Asta RS = 350 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

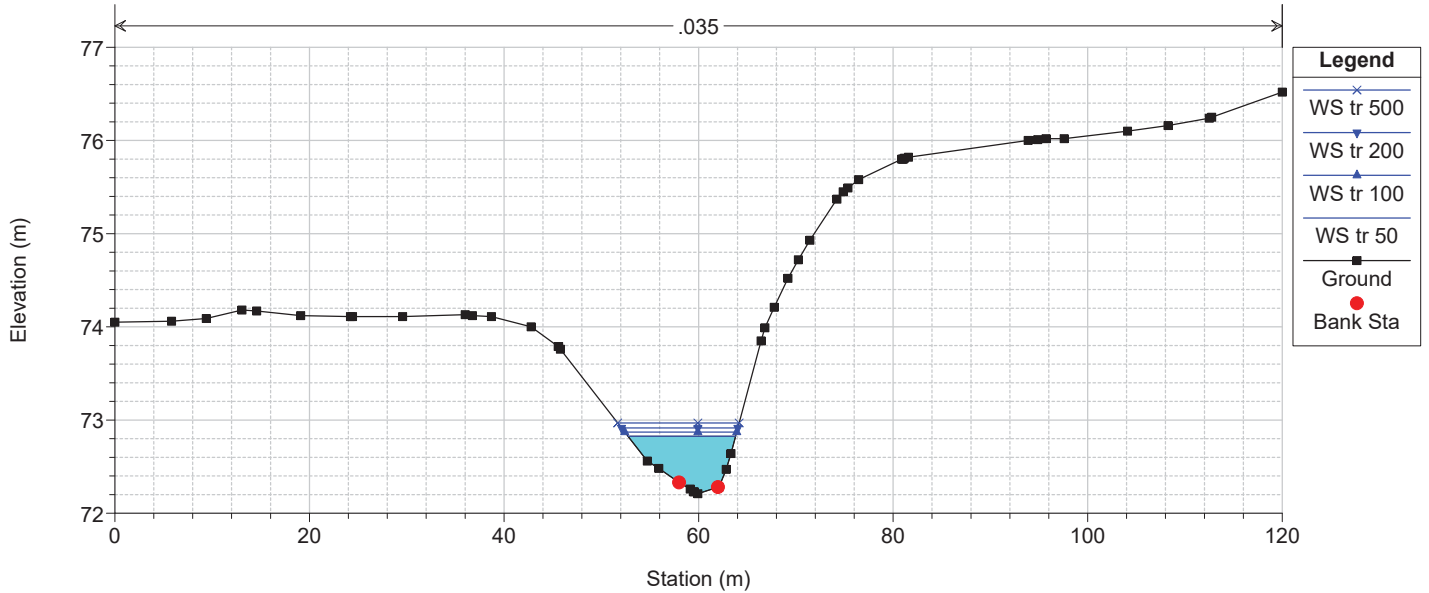
River = 75058 Reach = Asta RS = 300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

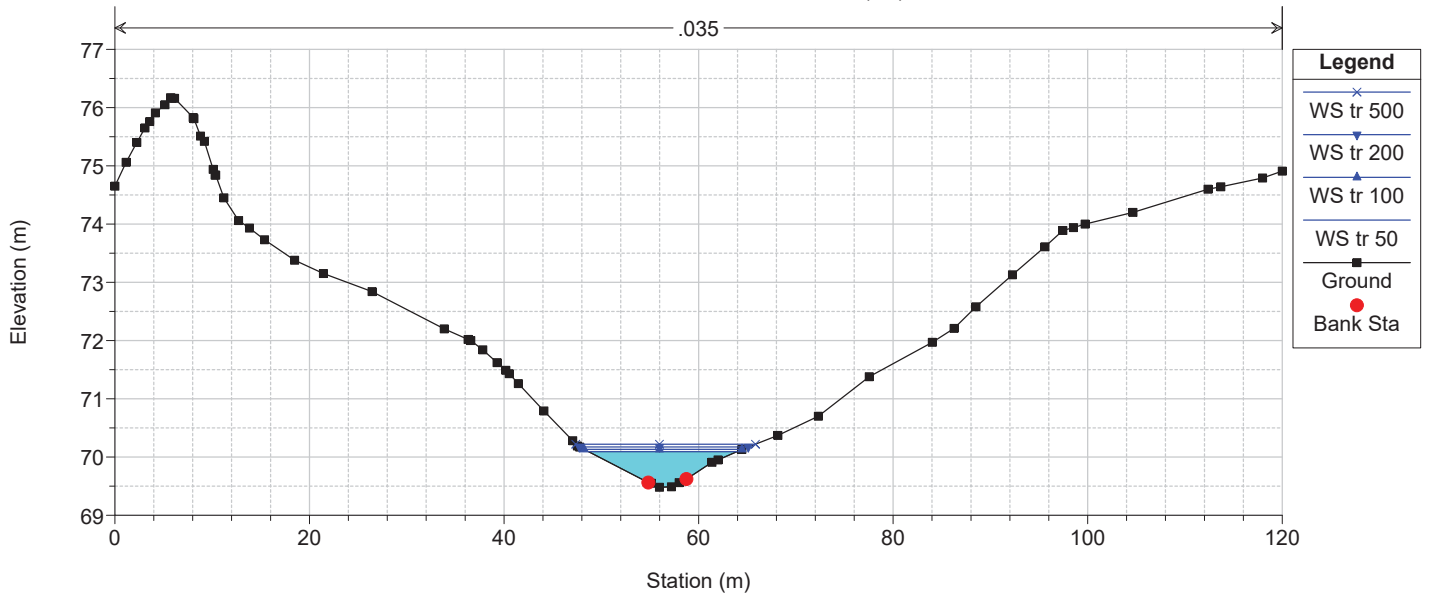
River = 75058 Reach = Asta RS = 250 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

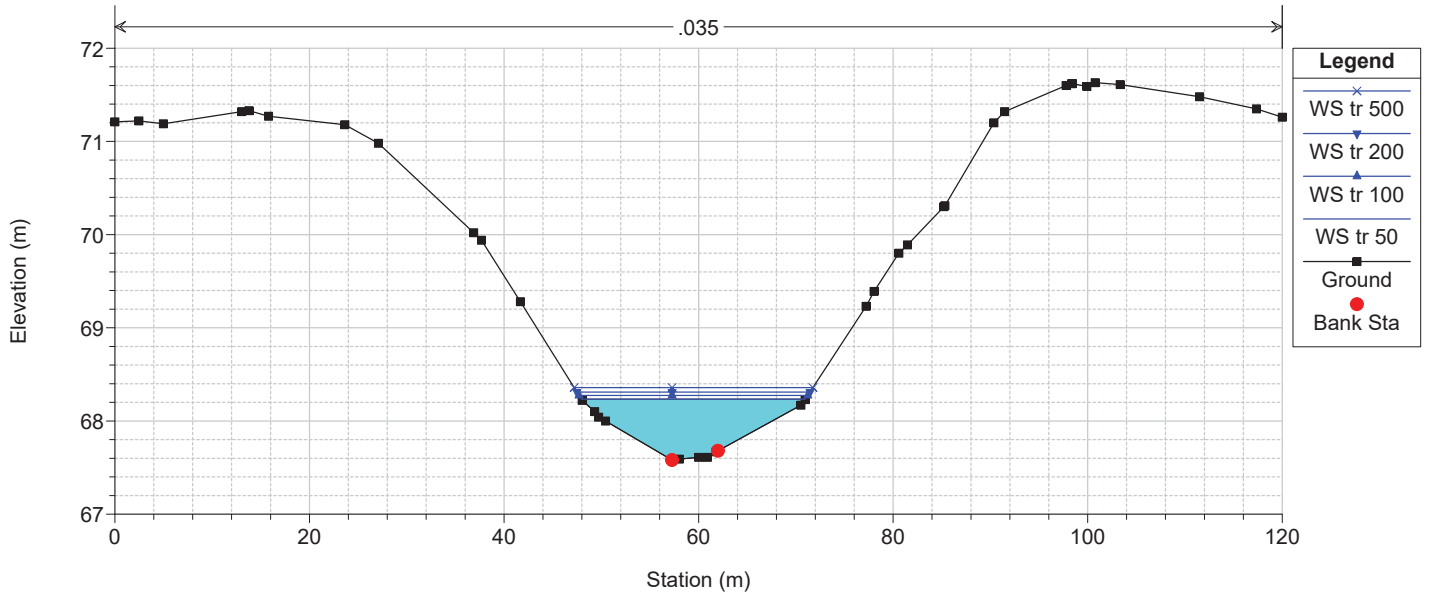
River = 75058 Reach = Asta RS = 200.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

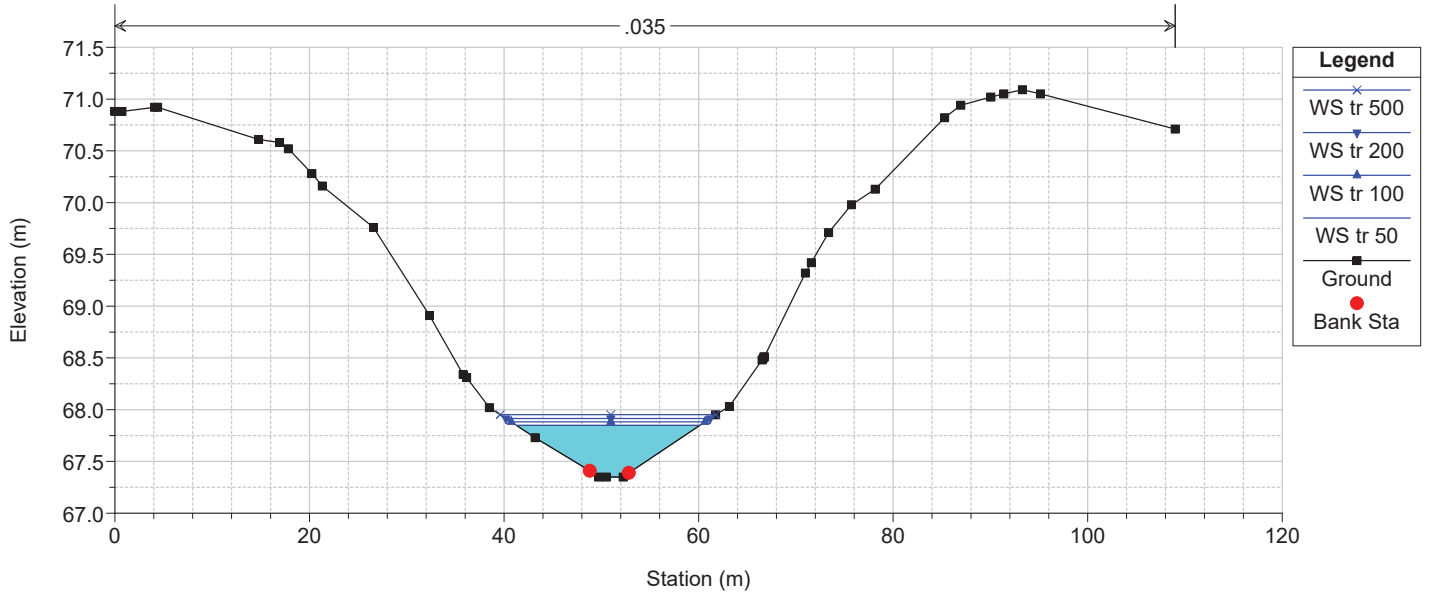
River = 75058 Reach = Asta RS = 150 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

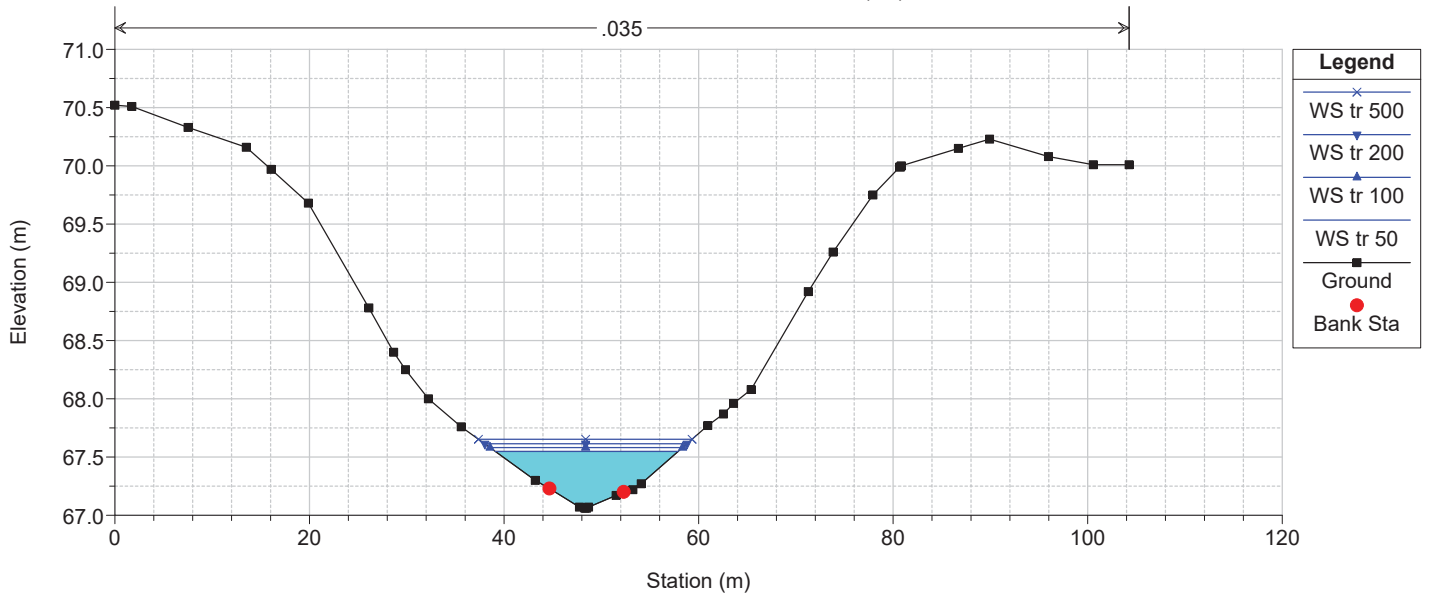
River = 75058 Reach = Asta RS = 141.5858 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

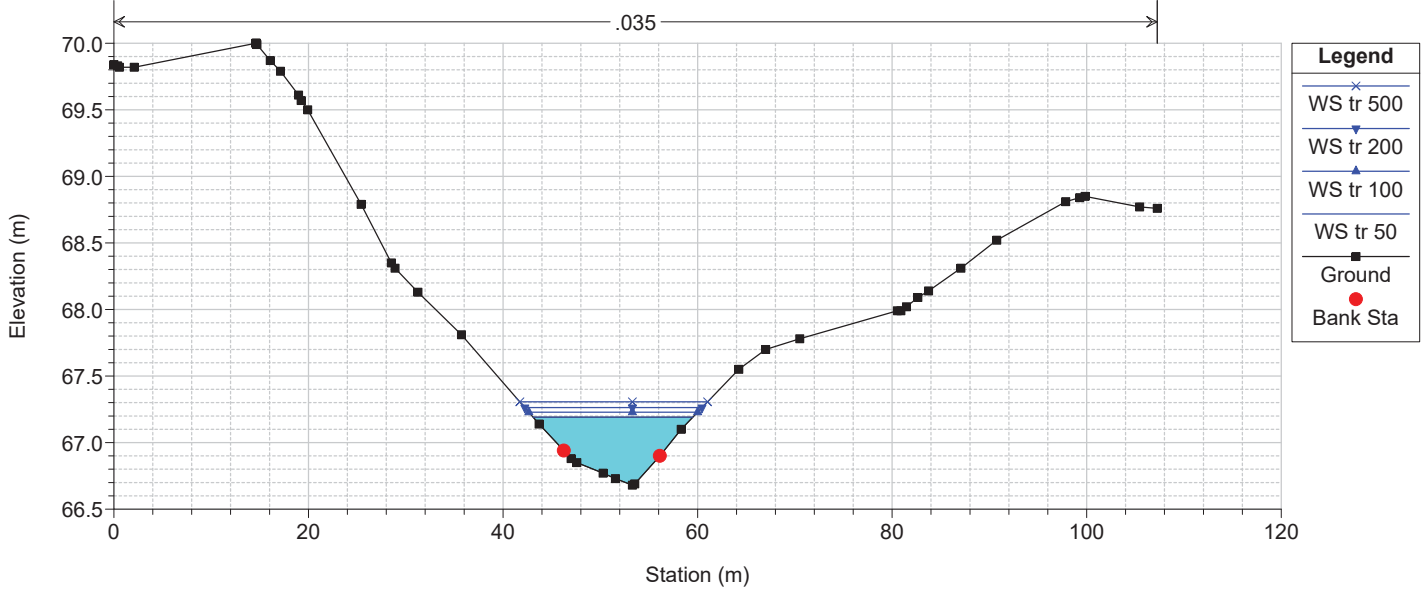
River = 75058 Reach = Asta RS = 131.5443 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

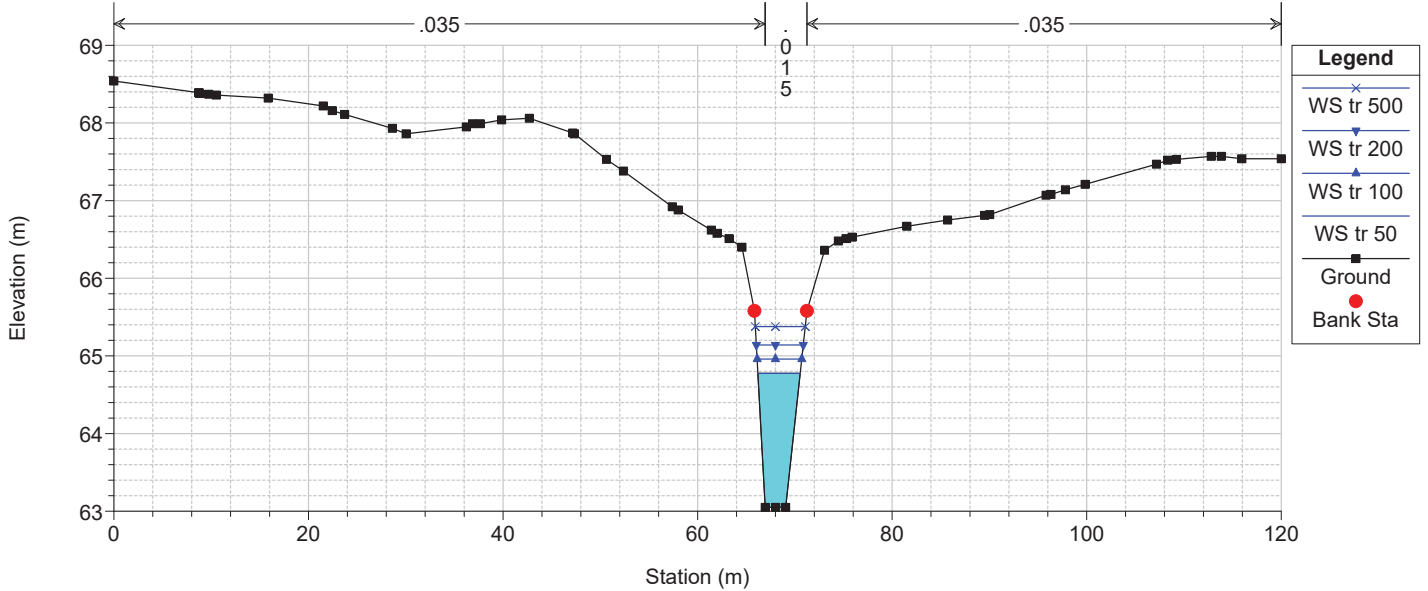
River = 75058 Reach = Asta RS = 115.6894 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

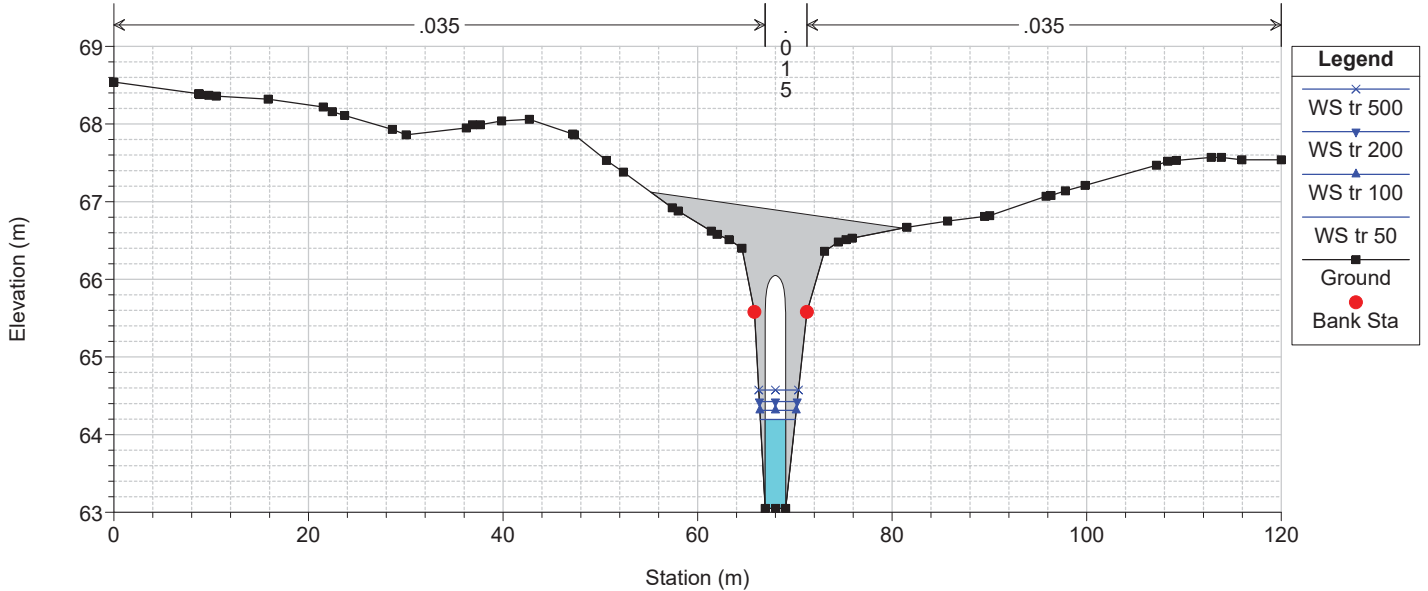
River = 75058 Reach = Asta RS = 99.99996 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

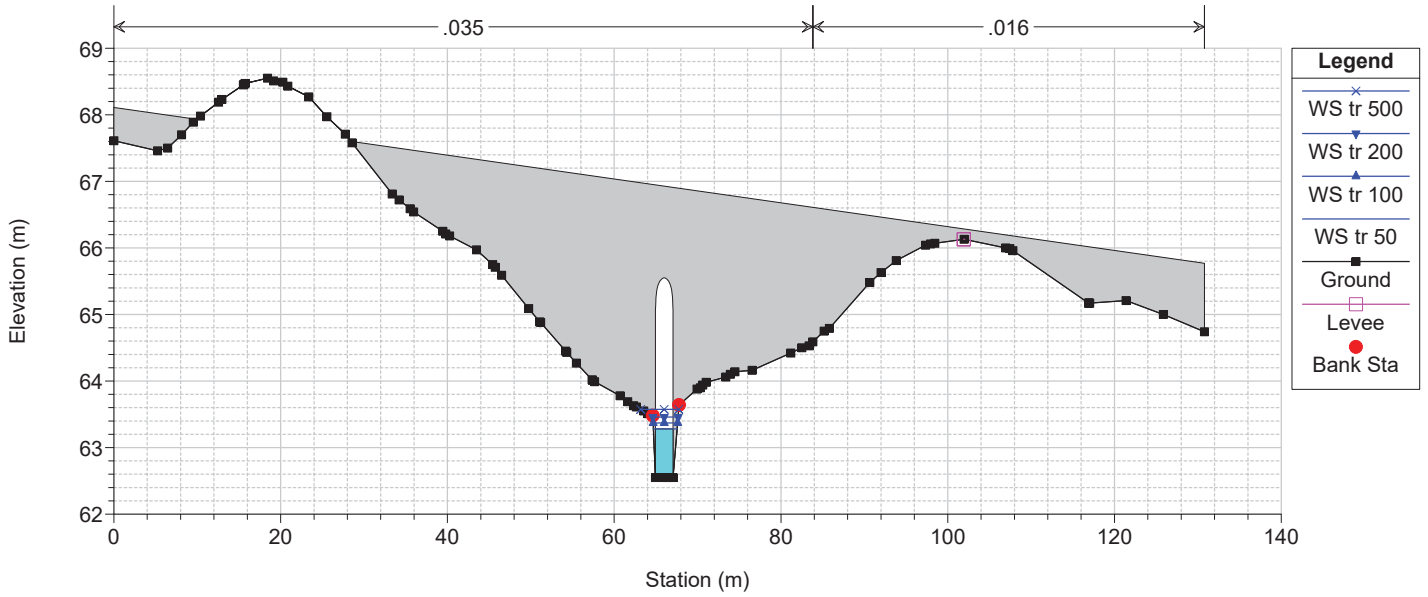
River = 75058 Reach = Asta RS = 86.21117 Culv COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

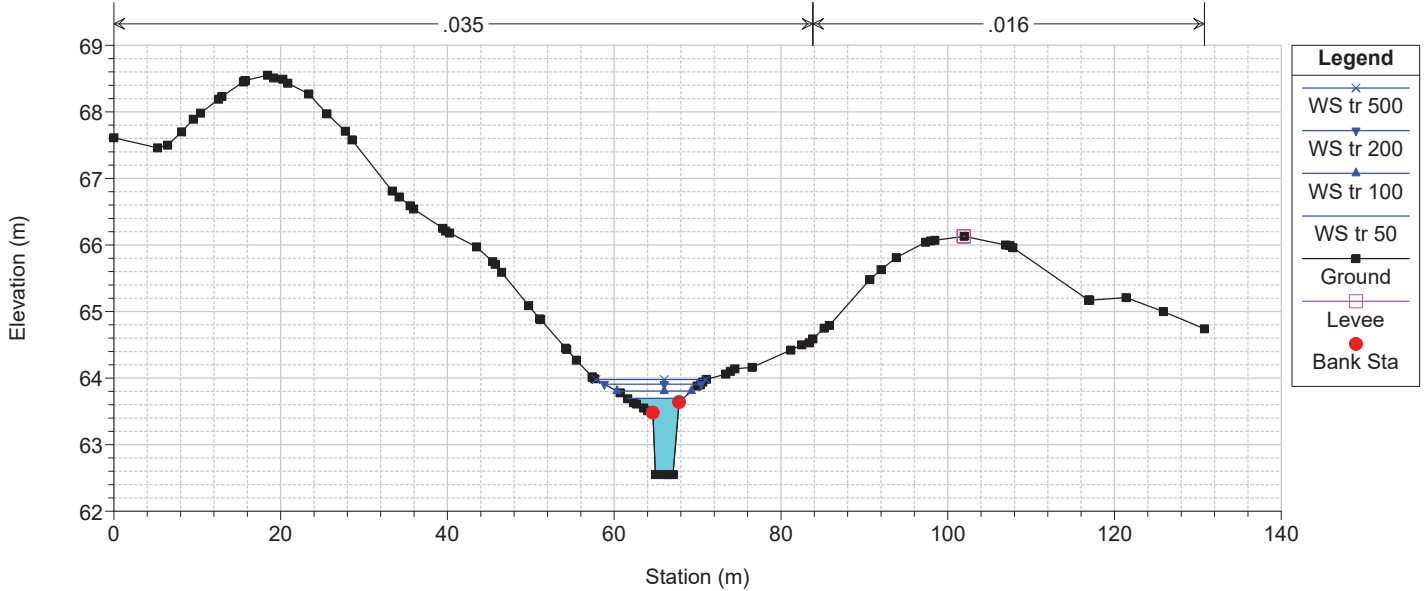
River = 75058 Reach = Asta RS = 86.21117 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

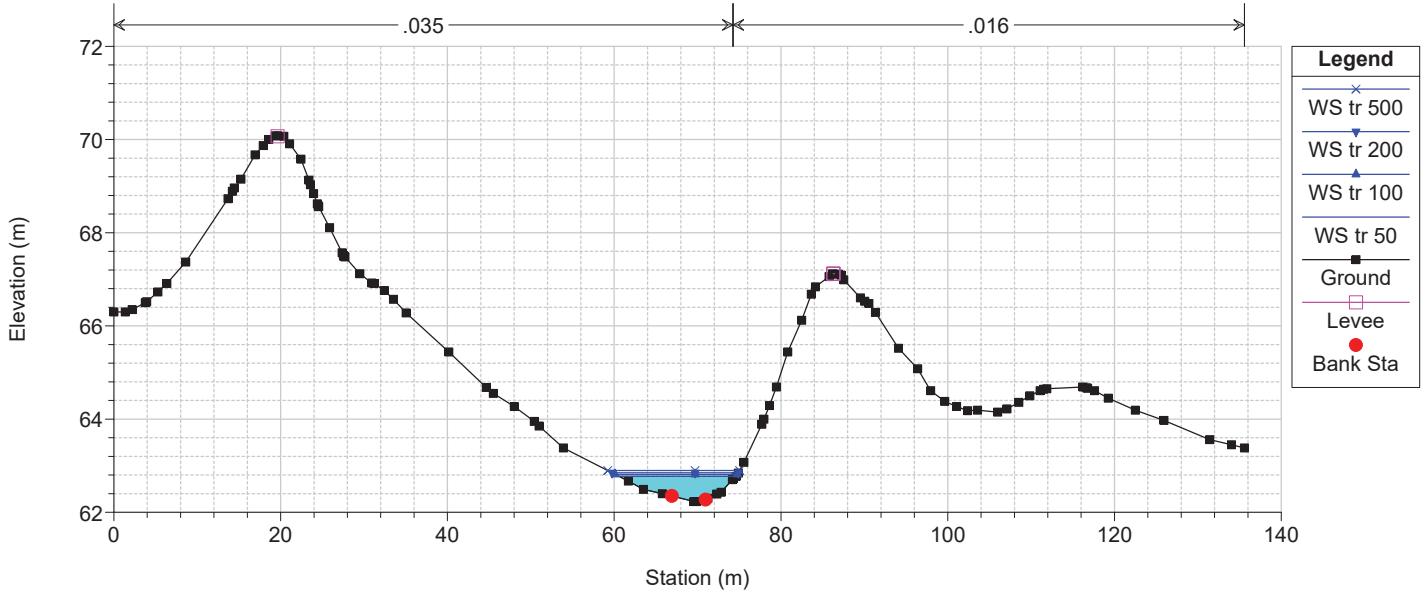
River = 75058 Reach = Asta RS = 77.12289 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

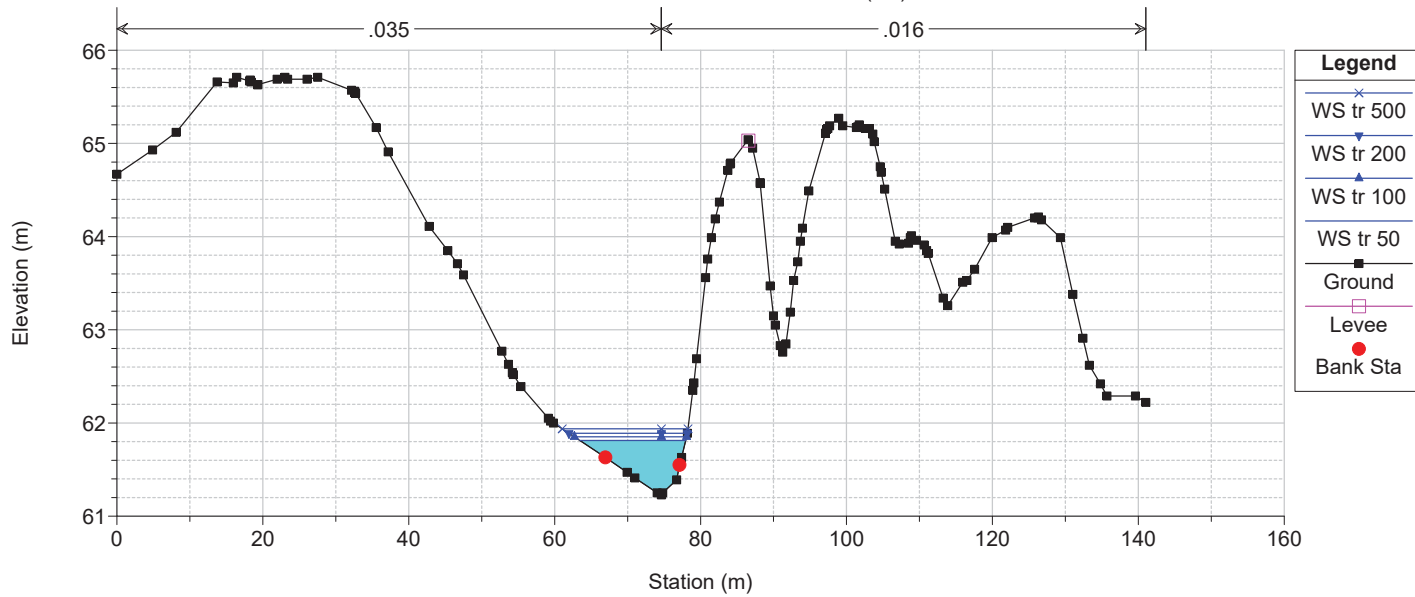


calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

River = 75058 Reach = Asta RS = 61.55157 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA





HEC-RAS Plan:

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	0.014080	1.96	4.61	13.87	0.94
Asta	1400	tr 100	9.32	127.90	128.46	128.46	128.65	0.013514	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	0.012891	2.21	6.43	15.72	0.94
Asta	1382.442	tr 50	8.06	126.48	126.96	126.96	127.13	0.014106	1.93	4.63	14.06	0.94
Asta	1382.442	tr 100	9.32	126.48	127.00	127.00	127.18	0.013764	2.02	5.16	14.53	0.94
Asta	1382.442	tr 200	10.60	126.48	127.04	127.04	127.23	0.013379	2.09	5.70	14.99	0.94
Asta	1382.442	tr 500	12.37	126.48	127.08	127.08	127.29	0.013063	2.19	6.39	15.56	0.94
Asta	1370.62	tr 50	8.06	125.60	126.11	126.11	126.27	0.013535	1.93	4.80	15.07	0.93
Asta	1370.62	tr 100	9.32	125.60	126.15	126.15	126.32	0.013217	2.01	5.36	15.61	0.93
Asta	1370.62	tr 200	10.60	125.60	126.18	126.18	126.37	0.013034	2.09	5.89	16.10	0.93
Asta	1370.62	tr 500	12.37	125.60	126.22	126.22	126.43	0.012818	2.19	6.60	16.76	0.94
Asta	1359.317	tr 50	8.06	124.44	124.88	124.88	125.05	0.015406	1.82	4.64	15.13	0.96
Asta	1359.317	tr 100	9.32	124.44	124.92	124.92	125.10	0.014587	1.89	5.22	15.82	0.95
Asta	1359.317	tr 200	10.60	124.44	124.96	124.96	125.14	0.014107	1.96	5.77	16.34	0.94
Asta	1359.317	tr 500	12.37	124.44	125.00	125.00	125.20	0.013466	2.05	6.52	17.04	0.94
Asta	1350	tr 50	8.06	122.93	123.44	123.44	123.61	0.013740	1.92	4.80	15.07	0.93
Asta	1350	tr 100	9.32	122.93	123.48	123.48	123.66	0.013410	2.00	5.36	15.57	0.93
Asta	1350	tr 200	10.60	122.93	123.51	123.51	123.70	0.013273	2.09	5.88	16.02	0.94
Asta	1350	tr 500	12.37	122.93	123.56	123.56	123.76	0.013052	2.19	6.59	16.61	0.94
Asta	1300	tr 50	8.06	117.43	117.90	117.90	118.05	0.013436	1.97	5.05	16.58	0.93
Asta	1300	tr 100	9.32	117.43	117.93	117.93	118.10	0.013535	2.07	5.58	17.17	0.94
Asta	1300	tr 200	10.60	117.43	117.97	117.97	118.14	0.013151	2.14	6.18	17.80	0.94
Asta	1300	tr 500	12.37	117.43	118.01	118.01	118.19	0.013063	2.23	6.91	18.46	0.95
Asta	1279.656	tr 50	8.06	115.86	116.29	116.29	116.42	0.013133	1.79	5.29	19.41	0.90
Asta	1279.656	tr 100	9.32	115.86	116.32	116.32	116.47	0.012887	1.86	5.92	20.23	0.90
Asta	1279.656	tr 200	10.60	115.86	116.35	116.35	116.50	0.012772	1.94	6.52	20.97	0.91
Asta	1279.656	tr 500	12.37	115.86	116.38	116.38	116.55	0.012645	2.03	7.32	21.93	0.91
Asta	1260.045	tr 50	8.06	113.15	113.66	113.66	113.82	0.014138	2.09	4.85	15.40	0.96
Asta	1260.045	tr 100	9.32	113.15	113.70	113.70	113.87	0.013301	2.14	5.50	16.13	0.94
Asta	1260.045	tr 200	10.60	113.15	113.73	113.73	113.91	0.013161	2.22	6.04	16.55	0.95
Asta	1260.045	tr 500	12.37	113.15	113.77	113.77	113.97	0.013183	2.33	6.71	17.04	0.96
Asta	1250	tr 50	8.06	110.62	113.62		113.63	0.000010	0.19	57.11	31.07	0.03
Asta	1250	tr 100	9.32	110.62	113.71		113.71	0.000012	0.21	59.75	31.70	0.04
Asta	1250	tr 200	10.60	110.62	113.79		113.79	0.000014	0.23	62.30	32.29	0.04
Asta	1250	tr 500	12.37	110.62	113.89		113.89	0.000017	0.25	65.61	33.04	0.04
Asta	1234.441	tr 50	8.06	112.44	113.32	113.32	113.60	0.012067	2.42	3.67	7.02	0.93
Asta	1234.441	tr 100	9.32	112.44	113.38	113.38	113.68	0.011726	2.52	4.11	7.34	0.93
Asta	1234.441	tr 200	10.60	112.44	113.44	113.44	113.76	0.011413	2.62	4.55	7.65	0.93
Asta	1234.441	tr 500	12.37	112.44	113.52	113.52	113.86	0.010908	2.72	5.17	8.07	0.92
Asta	1220.72	tr 50	8.06	110.18	110.85	110.85	111.05	0.012237	2.11	4.37	11.43	0.91
Asta	1220.72	tr 100	9.32	110.18	110.90	110.90	111.11	0.011740	2.19	4.93	12.05	0.90
Asta	1220.72	tr 200	10.60	110.18	110.94	110.94	111.17	0.011547	2.27	5.46	12.58	0.91
Asta	1220.72	tr 500	12.37	110.18	111.00	111.00	111.24	0.011287	2.37	6.16	13.25	0.91
Asta	1200	tr 50	8.06	110.00	110.67		110.68	0.000741	0.56	16.42	33.69	0.23
Asta	1200	tr 100	9.32	110.00	110.72		110.74	0.000725	0.58	18.25	34.76	0.23
Asta	1200	tr 200	10.60	110.00	110.77		110.79	0.000713	0.61	20.01	35.65	0.23
Asta	1200	tr 500	12.37	110.00	110.84		110.85	0.000704	0.64	22.30	36.76	0.23
Asta	1189.572	tr 50	8.06	109.69	110.39	110.39	110.57	0.010695	2.17	4.77	13.01	0.87
Asta	1189.572	tr 100	9.32	109.69	110.43	110.43	110.63	0.010620	2.26	5.35	13.74	0.88
Asta	1189.572	tr 200	10.60	109.69	110.47	110.47	110.68	0.010552	2.34	5.92	14.42	0.88
Asta	1189.572	tr 500	12.37	109.69	110.53	110.53	110.74	0.010331	2.43	6.71	15.32	0.88
Asta	1182.729	tr 50	8.06	109.14	109.82	109.82	110.02	0.011168	2.16	4.51	11.56	0.89
Asta	1182.729	tr 100	9.32	109.14	109.87	109.87	110.08	0.010983	2.25	5.06	12.14	0.89
Asta	1182.729	tr 200	10.60	109.14	109.91	109.91	110.14	0.011033	2.35	5.58	12.85	0.90
Asta	1182.729	tr 500	12.37	109.14	109.97	109.97	110.21	0.010833	2.45	6.33	13.81	0.90
Asta	1159.919	tr 50	8.06	107.36	107.82	107.82	107.95	0.013201	1.80	5.37	20.07	0.90
Asta	1159.919	tr 100	9.32	107.36	107.85	107.85	107.99	0.013038	1.88	6.00	21.02	0.91
Asta	1159.919	tr 200	10.60	107.36	107.87	107.87	108.03	0.013334	1.97	6.55	22.04	0.93
Asta	1159.919	tr 500	12.37	107.36	107.92	107.92	108.08	0.012561	2.03	7.55	24.02	0.91
Asta	1150	tr 50	8.06	106.25	106.91	106.91	107.06	0.010652	2.02	5.46	18.22	0.85
Asta	1150	tr 100	9.32	106.25	106.94	106.94	107.10	0.010720	2.11	6.07	18.87	0.87
Asta	1150	tr 200	10.60	106.25	106.98	106.98	107.14	0.010710	2.18	6.68	19.49	0.87
Asta	1150	tr 500	12.37	106.25	107.01	107.01	107.19	0.011064	2.30	7.39	20.20	0.89
Asta	1100	tr 50	8.06	103.89	104.45	104.45	104.59	0.012421	2.01	5.43	19.29	0.90
Asta	1100	tr 100	9.32	103.89	104.49	104.49	104.63	0.012321	2.08	6.07	20.12	0.91
Asta	1100	tr 200	10.60	103.89	104.51	104.51	104.67	0.012552	2.18	6.64	20.96	0.93

HEC-RAS Plan: (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	104.56	104.56	104.72	0.012192	2.25	7.56	22.39	0.92
Asta	1050	tr 50	8.06	101.76	102.33	102.33	102.45	0.011577	1.95	6.08	25.36	0.87
Asta	1050	tr 100	9.32	101.76	102.36	102.36	102.49	0.011492	2.02	6.86	27.17	0.88
Asta	1050	tr 200	10.60	101.76	102.40	102.40	102.52	0.010777	2.04	7.83	29.55	0.86
Asta	1050	tr 500	12.37	101.76	102.43	102.43	102.56	0.010219	2.07	8.96	30.94	0.85
Asta	1000	tr 50	8.06	99.64	100.09	100.09	100.20	0.013631	1.58	5.95	28.69	0.88
Asta	1000	tr 100	9.32	99.64	100.11	100.11	100.23	0.013084	1.64	6.76	30.64	0.88
Asta	1000	tr 200	10.60	99.64	100.14	100.14	100.26	0.013078	1.70	7.47	32.18	0.89
Asta	1000	tr 500	12.37	99.64	100.17	100.17	100.30	0.011980	1.73	8.69	34.57	0.86
Asta	950	tr 50	8.06	97.44	97.82	97.82	97.94	0.014859	1.74	5.76	25.26	0.93
Asta	950	tr 100	9.32	97.44	97.85	97.85	97.97	0.013816	1.77	6.58	26.83	0.91
Asta	950	tr 200	10.60	97.44	97.87	97.87	98.00	0.014603	1.88	7.09	27.69	0.95
Asta	950	tr 500	12.37	97.44	97.90	97.90	98.05	0.014291	1.97	8.11	30.73	0.95
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	95.79	95.49	95.84	0.001559	1.07	11.79	42.18	0.35
Asta	873.9232	tr 100	9.32	94.44	95.83	95.56	95.88	0.001667	1.13	13.46	48.95	0.36
Asta	873.9232	tr 200	10.60	94.44	95.85	95.61	95.91	0.001859	1.21	14.59	52.28	0.38
Asta	873.9232	tr 500	12.37	94.44	95.85	95.67	95.92	0.002542	1.42	14.55	52.17	0.45
Asta	865.0975		Culvert									
Asta	855.1509	tr 50	8.06	94.24	94.60	94.60	94.71	0.019669	1.48	5.51	26.25	1.00
Asta	855.1509	tr 100	9.32	94.24	94.62	94.62	94.74	0.018493	1.54	6.17	27.51	0.98
Asta	855.1509	tr 200	10.60	94.24	94.65	94.65	94.77	0.017622	1.59	6.83	28.75	0.97
Asta	855.1509	tr 500	12.37	94.24	94.68	94.68	94.81	0.016572	1.66	7.73	30.38	0.96
Asta	837.2585	tr 50	8.06	93.31	93.63	93.63	93.74	0.017882	1.48	5.65	27.39	0.96
Asta	837.2585	tr 100	9.32	93.31	93.65	93.65	93.77	0.017180	1.54	6.31	28.28	0.96
Asta	837.2585	tr 200	10.60	93.31	93.67	93.67	93.80	0.016573	1.60	6.96	29.15	0.95
Asta	837.2585	tr 500	12.37	93.31	93.71	93.71	93.84	0.015738	1.67	7.86	30.34	0.95
Asta	800.0001	tr 50	8.06	91.71	92.14	92.14	92.26	0.018484	1.55	5.29	23.65	0.99
Asta	800.0001	tr 100	9.32	91.71	92.17	92.17	92.30	0.017114	1.60	5.98	25.07	0.97
Asta	800.0001	tr 200	10.60	91.71	92.19	92.19	92.33	0.016428	1.66	6.62	26.32	0.96
Asta	800.0001	tr 500	12.37	91.71	92.23	92.23	92.37	0.015460	1.73	7.53	28.00	0.95
Asta	749.9999	tr 50	8.06	90.28	90.69	90.69	90.84	0.015443	1.71	4.97	18.29	0.94
Asta	749.9999	tr 100	9.32	90.28	90.73	90.73	90.88	0.014794	1.78	5.57	19.14	0.94
Asta	749.9999	tr 200	10.60	90.28	90.76	90.76	90.92	0.014308	1.85	6.17	19.93	0.94
Asta	749.9999	tr 500	12.37	90.28	90.80	90.80	90.97	0.013510	1.92	7.02	20.88	0.92
Asta	700.0001	tr 50	8.06	88.49	88.92	88.92	89.06	0.014466	1.78	5.16	18.95	0.93
Asta	700.0001	tr 100	9.32	88.49	88.95	88.95	89.10	0.013984	1.85	5.79	19.72	0.93
Asta	700.0001	tr 200	10.60	88.49	88.98	88.98	89.14	0.013811	1.92	6.37	20.41	0.93
Asta	700.0001	tr 500	12.37	88.49	89.02	89.02	89.19	0.013455	2.01	7.17	21.33	0.93
Asta	650	tr 50	8.06	87.04	87.58	87.58	87.74	0.014277	1.84	4.67	15.34	0.93
Asta	650	tr 100	9.32	87.04	87.62	87.62	87.79	0.013546	1.91	5.29	16.30	0.92
Asta	650	tr 200	10.60	87.04	87.65	87.65	87.84	0.013001	1.97	5.89	17.19	0.92
Asta	650	tr 500	12.37	87.04	87.70	87.70	87.90	0.012401	2.05	6.72	18.33	0.91
Asta	600	tr 50	8.06	85.72	86.09	86.09	86.21	0.014877	1.67	5.58	23.10	0.93
Asta	600	tr 100	9.32	85.72	86.11	86.11	86.25	0.015049	1.76	6.15	23.90	0.94
Asta	600	tr 200	10.60	85.72	86.14	86.14	86.28	0.014737	1.83	6.79	24.76	0.94
Asta	600	tr 500	12.37	85.72	86.17	86.17	86.33	0.014298	1.90	7.65	25.89	0.94
Asta	550.0001	tr 50	8.06	84.76	85.23	85.23	85.36	0.019224	1.65	5.14	21.76	1.02
Asta	550.0001	tr 100	9.32	84.76	85.26	85.26	85.40	0.018322	1.72	5.78	23.06	1.01
Asta	550.0001	tr 200	10.60	84.76	85.29	85.29	85.43	0.017345	1.78	6.45	24.32	1.00
Asta	550.0001	tr 500	12.37	84.76	85.33	85.33	85.48	0.016416	1.86	7.35	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	0.002311	1.10	10.61	23.74	0.41
Asta	500	tr 200	10.60	84.00	84.84	84.59	84.89	0.002355	1.15	11.58	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	84.60	84.51	84.70	0.006765	1.55	8.03	21.47	0.68
Asta	488.6261	tr 500	12.37	84.00	84.63	84.55	84.75	0.007039	1.65	8.85	22.36	0.70
Asta	476.2538	tr 50	8.06	83.93	84.36	84.36	84.50	0.014479	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	0.013957	1.98	6.50	21.42	0.94
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: (Continued)

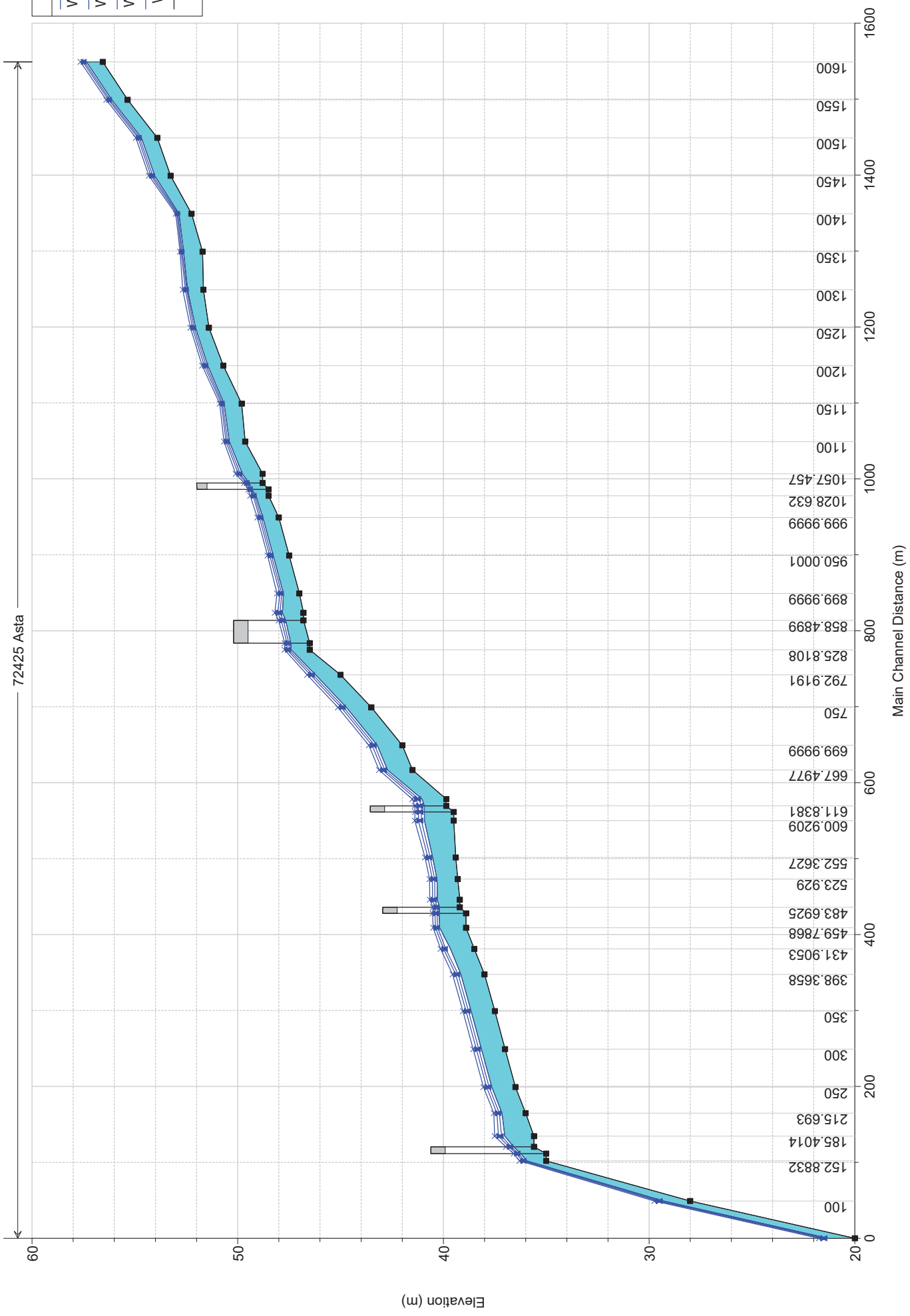
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta	463.34	tr 50	8.06	83.17	83.64	83.64	83.77	0.013521	1.69	5.57	22.66	0.90
Asta	463.34	tr 100	9.32	83.17	83.67	83.67	83.81	0.013563	1.78	6.20	23.96	0.91
Asta	463.34	tr 200	10.60	83.17	83.70	83.70	83.72	0.002038	0.72	17.38	55.44	0.36
Asta	463.34	tr 500	12.37	83.17	83.70	83.70	83.73	0.002774	0.84	17.38	55.44	0.42
Asta	450	tr 50	8.06	82.04	82.40	82.40	82.46	0.016354	1.38	7.55	52.75	0.91
Asta	450	tr 100	9.32	82.04	82.41	82.41	82.48	0.015012	1.39	8.56	53.64	0.89
Asta	450	tr 200	10.60	82.04	82.43	82.43	82.50	0.015258	1.45	9.26	54.03	0.90
Asta	450	tr 500	12.37	82.04	82.44	82.44	82.53	0.015623	1.53	10.15	54.49	0.92
Asta	400	tr 50	8.06	79.49	79.84	79.84	79.95	0.016579	1.59	5.91	29.22	0.95
Asta	400	tr 100	9.32	79.49	79.87	79.87	79.98	0.016031	1.65	6.65	30.78	0.95
Asta	400	tr 200	10.60	79.49	79.89	79.89	80.01	0.015566	1.71	7.38	32.25	0.95
Asta	400	tr 500	12.37	79.49	79.92	79.92	80.05	0.015116	1.78	8.35	34.10	0.95
Asta	350	tr 50	8.06	77.15	77.81	77.81	77.99	0.011961	2.21	4.63	12.69	0.91
Asta	350	tr 100	9.32	77.15	77.85	77.85	78.05	0.011973	2.31	5.17	13.39	0.92
Asta	350	tr 200	10.60	77.15	77.89	77.89	78.10	0.011709	2.39	5.76	14.28	0.92
Asta	350	tr 500	12.37	77.15	77.94	77.94	78.17	0.012258	2.55	6.41	15.32	0.96
Asta	300	tr 50	8.06	75.11	75.59	75.59	75.75	0.013041	1.84	5.02	17.04	0.90
Asta	300	tr 100	9.32	75.11	75.63	75.63	75.79	0.012524	1.91	5.66	17.90	0.90
Asta	300	tr 200	10.60	75.11	75.66	75.66	75.83	0.012214	1.98	6.28	18.65	0.90
Asta	300	tr 500	12.37	75.11	75.71	75.71	75.89	0.011828	2.06	7.10	19.59	0.89
Asta	250	tr 50	8.06	72.21	72.83	72.83	73.03	0.013052	2.24	4.35	11.06	0.95
Asta	250	tr 100	9.32	72.21	72.87	72.87	73.09	0.012798	2.34	4.86	11.51	0.95
Asta	250	tr 200	10.60	72.21	72.92	72.92	73.14	0.012478	2.41	5.37	11.95	0.95
Asta	250	tr 500	12.37	72.21	72.97	72.97	73.21	0.012338	2.53	6.02	12.48	0.96
Asta	200.0001	tr 50	8.06	69.48	70.09	70.09	70.26	0.011855	2.13	4.97	15.28	0.90
Asta	200.0001	tr 100	9.32	69.48	70.13	70.13	70.31	0.011877	2.23	5.56	16.22	0.91
Asta	200.0001	tr 200	10.60	69.48	70.17	70.17	70.36	0.011297	2.27	6.27	17.37	0.90
Asta	200.0001	tr 500	12.37	69.48	70.22	70.22	70.41	0.011029	2.35	7.12	18.46	0.90
Asta	150	tr 50	8.06	67.58	68.23	68.23	68.28	0.003152	1.17	8.96	23.04	0.47
Asta	150	tr 100	9.32	67.58	68.27	68.27	68.33	0.003169	1.22	9.88	23.52	0.48
Asta	150	tr 200	10.60	67.58	68.31	68.31	68.37	0.003210	1.28	10.73	23.96	0.49
Asta	150	tr 500	12.37	67.58	68.36	68.36	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	0.013217	2.04	5.31	18.84	0.93
Asta	141.5858	tr 100	9.32	67.35	67.88	67.88	68.03	0.013012	2.11	5.96	19.93	0.93
Asta	141.5858	tr 200	10.60	67.35	67.91	67.91	68.07	0.012718	2.17	6.63	20.97	0.93
Asta	141.5858	tr 500	12.37	67.35	67.95	67.95	68.12	0.012830	2.28	7.42	22.16	0.95
Asta	131.5443	tr 50	8.06	67.06	67.55	67.55	67.69	0.013579	1.85	5.20	18.79	0.92
Asta	131.5443	tr 100	9.32	67.06	67.58	67.58	67.73	0.013252	1.93	5.84	19.79	0.92
Asta	131.5443	tr 200	10.60	67.06	67.61	67.61	67.77	0.012857	1.99	6.50	20.77	0.92
Asta	131.5443	tr 500	12.37	67.06	67.65	67.65	67.83	0.012655	2.08	7.33	21.95	0.92
Asta	115.6894	tr 50	8.06	66.68	67.19	67.19	67.35	0.013818	1.83	4.85	16.41	0.92
Asta	115.6894	tr 100	9.32	66.68	67.23	67.23	67.40	0.013184	1.90	5.49	17.35	0.91
Asta	115.6894	tr 200	10.60	66.68	67.26	67.26	67.44	0.012794	1.97	6.09	18.20	0.91
Asta	115.6894	tr 500	12.37	66.68	67.31	67.31	67.50	0.012365	2.05	6.91	19.30	0.91
Asta	99.99996	tr 50	8.06	63.05	64.78	64.07	64.88	0.001184	1.45	5.57	4.35	0.41
Asta	99.99996	tr 100	9.32	63.05	64.96	64.16	65.07	0.001115	1.46	6.39	4.59	0.39
Asta	99.99996	tr 200	10.60	63.05	65.14	64.25	65.25	0.001052	1.46	7.24	4.83	0.38
Asta	99.99996	tr 500	12.37	63.05	65.38	64.37	65.49	0.000976	1.47	8.42	5.14	0.37
Asta	86.21117		Culvert									
Asta	77.12289	tr 50	8.06	62.55	63.69	63.69	64.01	0.012822	2.54	3.43	6.70	0.82
Asta	77.12289	tr 100	9.32	62.55	63.81	63.81	64.10	0.010777	2.50	4.29	8.93	0.77
Asta	77.12289	tr 200	10.60	62.55	63.91	63.91	64.18	0.009022	2.44	5.35	11.58	0.71
Asta	77.12289	tr 500	12.37	62.55	63.98	63.98	64.26	0.009091	2.54	6.21	13.20	0.72
Asta	61.55157	tr 50	8.06	62.23	62.77	62.77	62.94	0.013522	2.09	4.72	14.07	0.94
Asta	61.55157	tr 100	9.32	62.23	62.81	62.81	62.99	0.012928	2.16	5.30	14.67	0.94
Asta	61.55157	tr 200	10.60	62.23	62.85	62.85	63.04	0.012942	2.25	5.80	15.15	0.95
Asta	61.55157	tr 500	12.37	62.23	62.90	62.90	63.10	0.012462	2.32	6.54	15.82	0.94
Asta	48.60497	tr 50	8.06	61.23	61.81	61.81	61.98	0.007453	1.87	4.58	14.49	0.93
Asta	48.60497	tr 100	9.32	61.23	61.85	61.85	62.04	0.007196	1.94	5.18	15.38	0.92
Asta	48.60497	tr 200	10.60	61.23	61.89	61.89	62.08	0.006921	2.00	5.80	16.25	0.91
Asta	48.60497	tr 500	12.37	61.23	61.94	61.94	62.15	0.006718	2.08	6.59	17.24	0.91

calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

72425 Asia

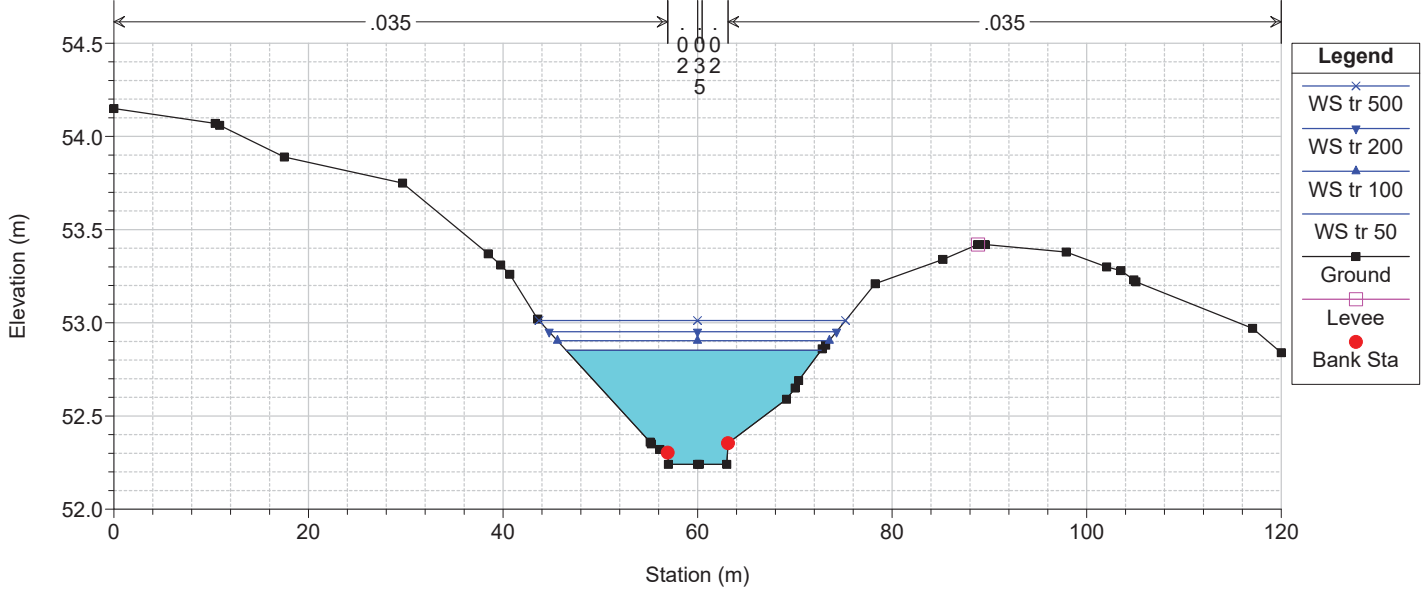
Legend	
WS tr 500	✕
WS tr 200	▶
WS tr 100	▲
WS tr 50	▼
Ground	■



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

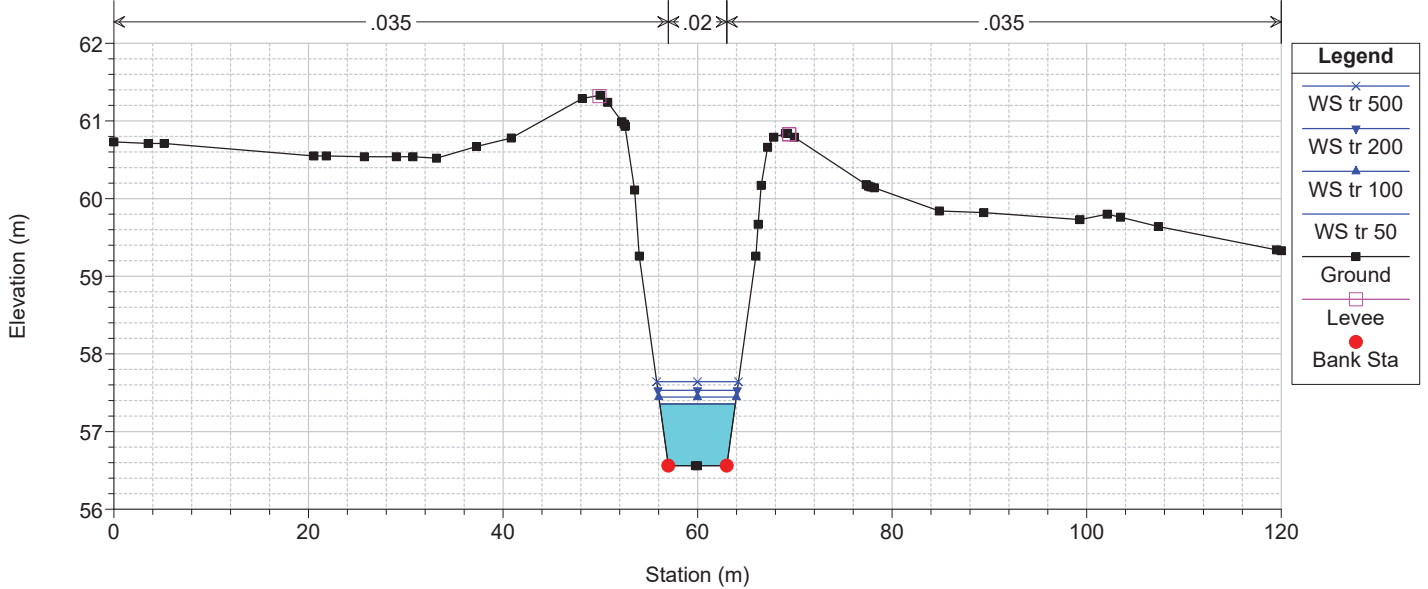
River = 72425 Reach = Asta RS = 1400 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

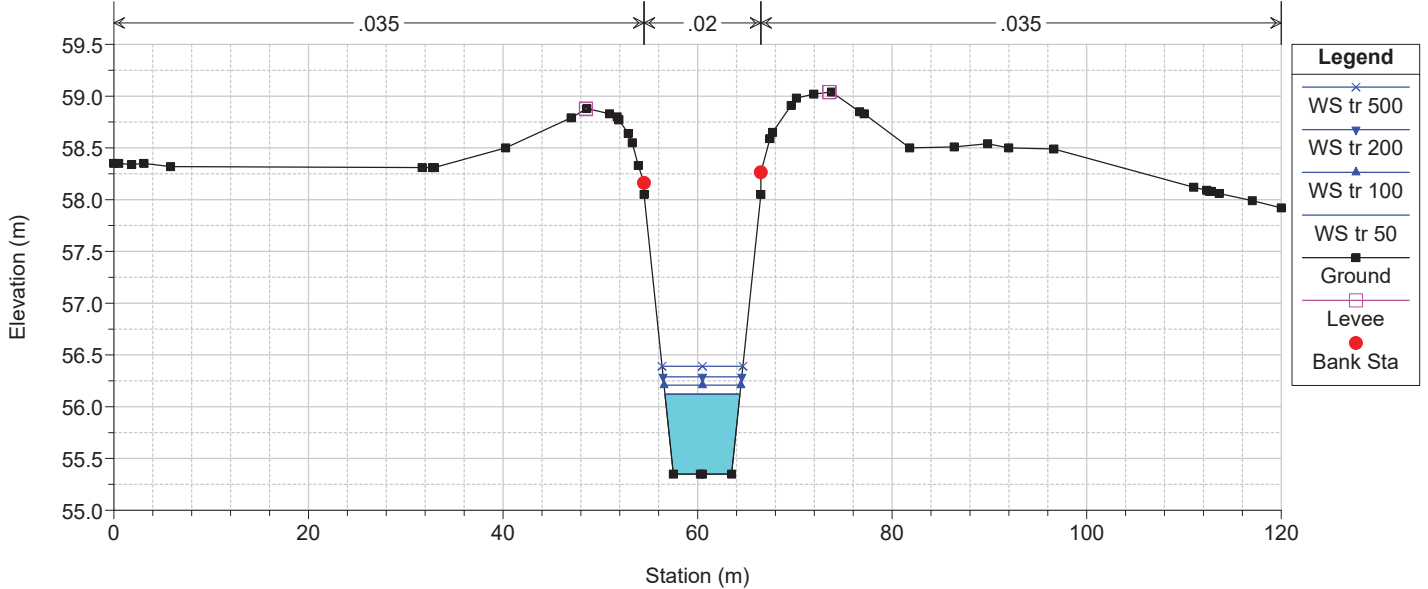
River = 72425 Reach = Asta RS = 1600 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

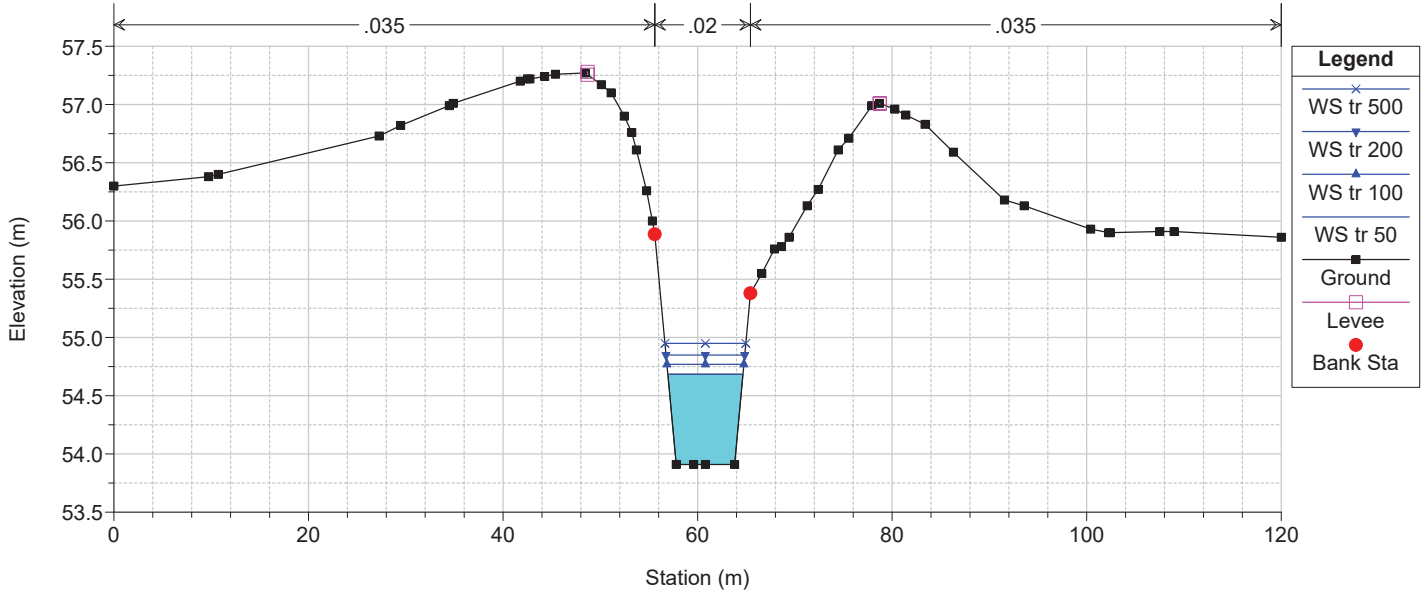
River = 72425 Reach = Asta RS = 1550 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

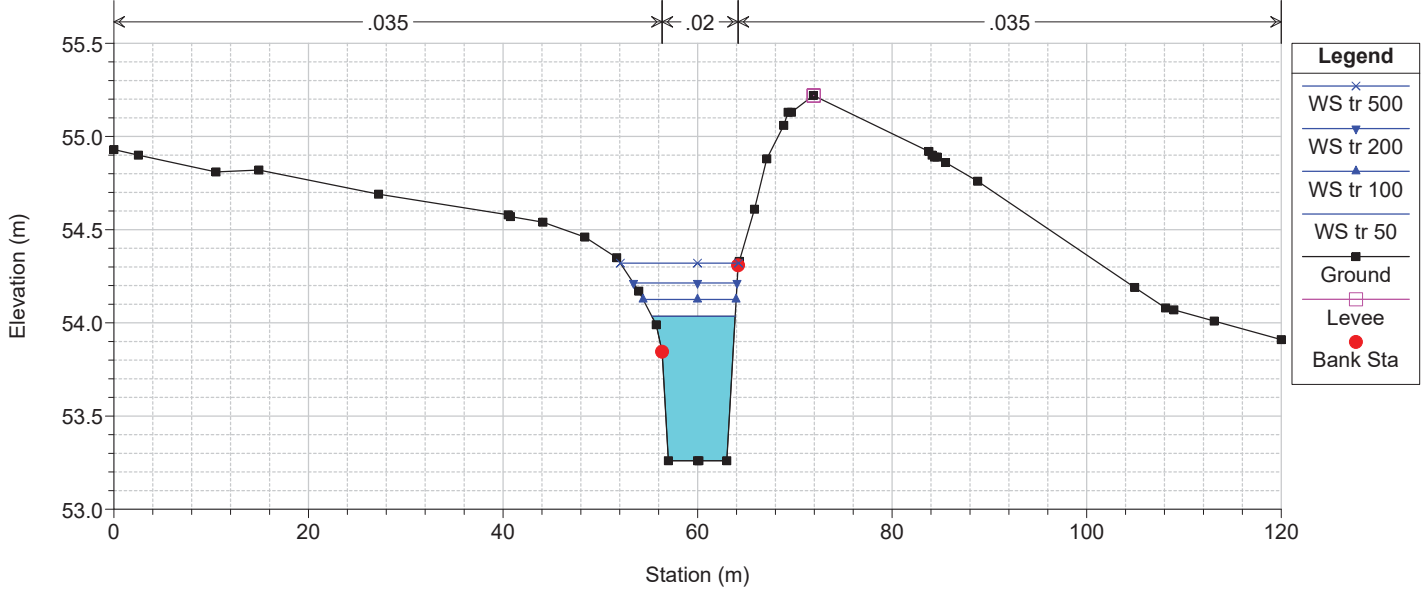
River = 72425 Reach = Asta RS = 1500 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

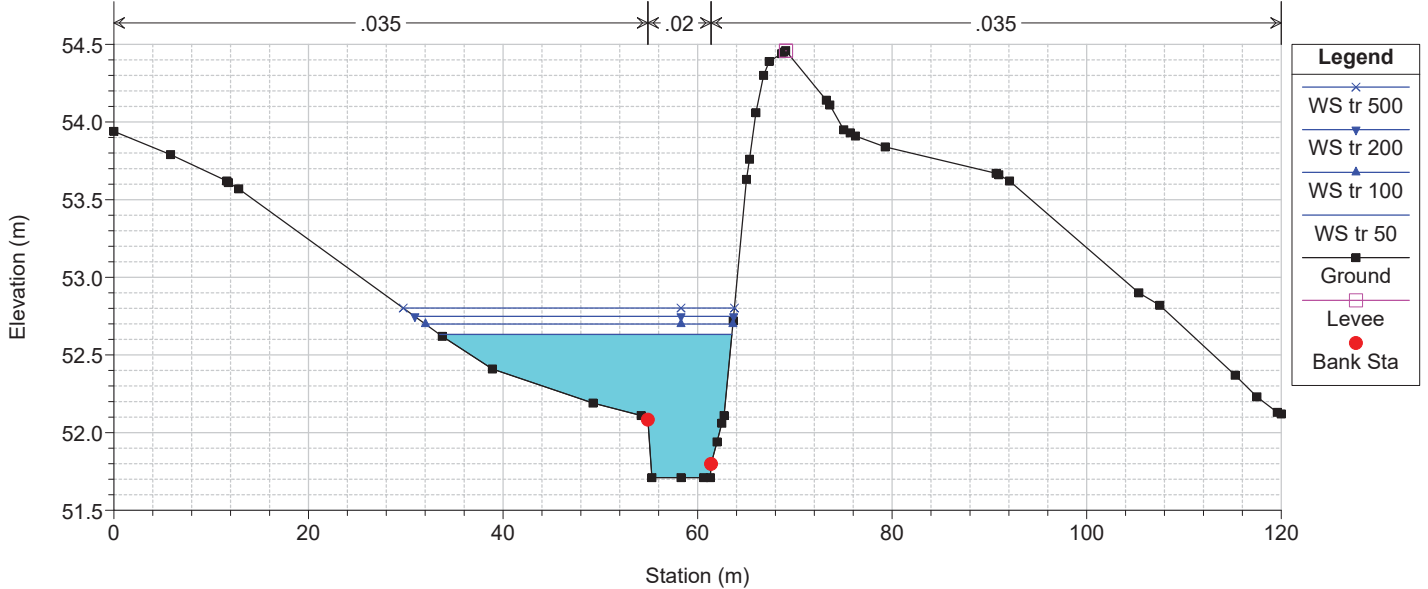
River = 72425 Reach = Asta RS = 1450 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

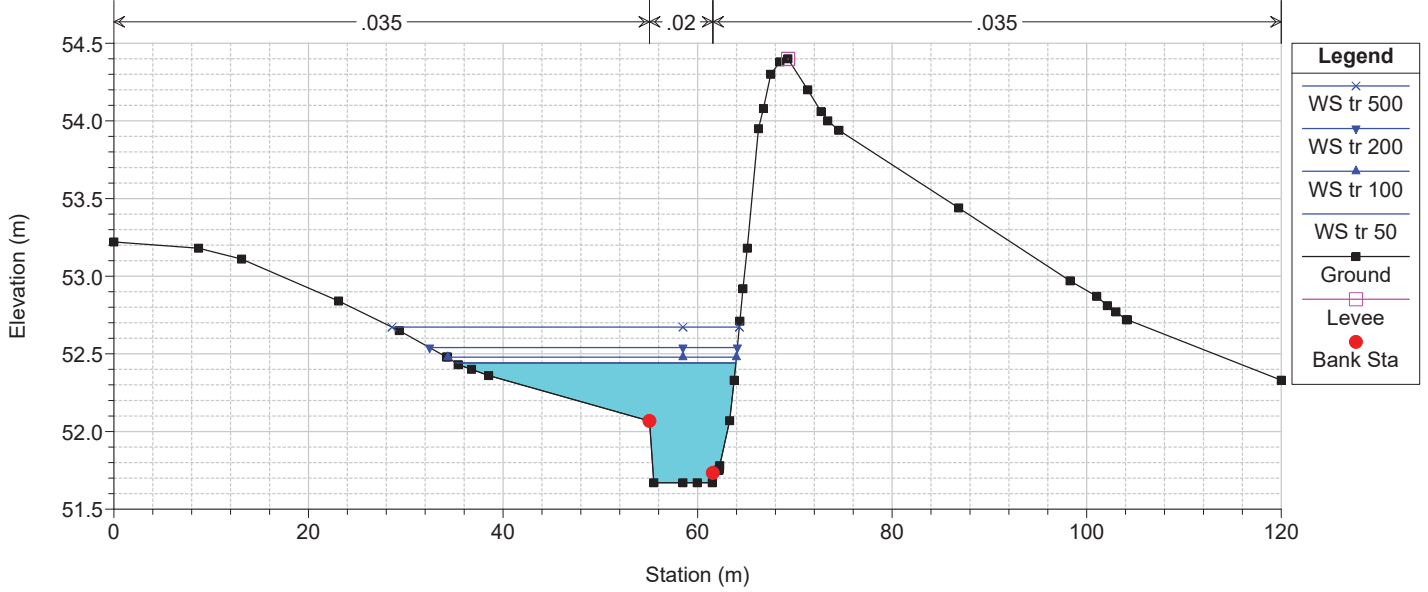
River = 72425 Reach = Asta RS = 1350 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

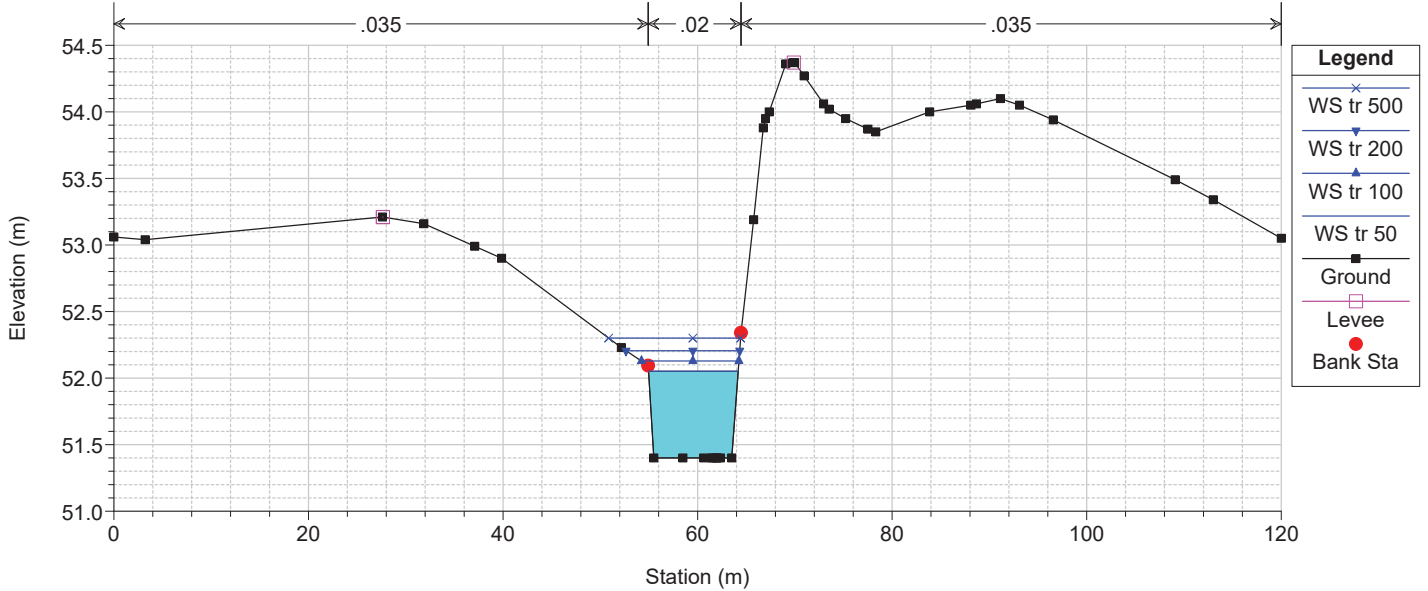
River = 72425 Reach = Asta RS = 1300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

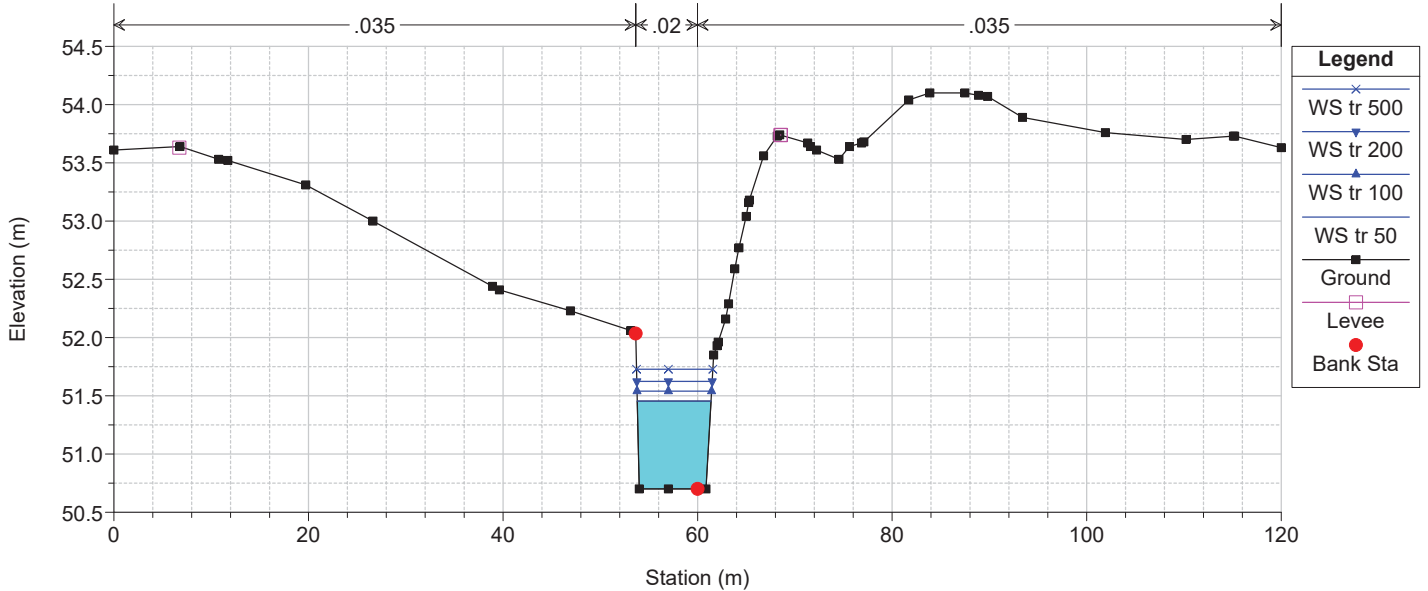
River = 72425 Reach = Asta RS = 1250 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

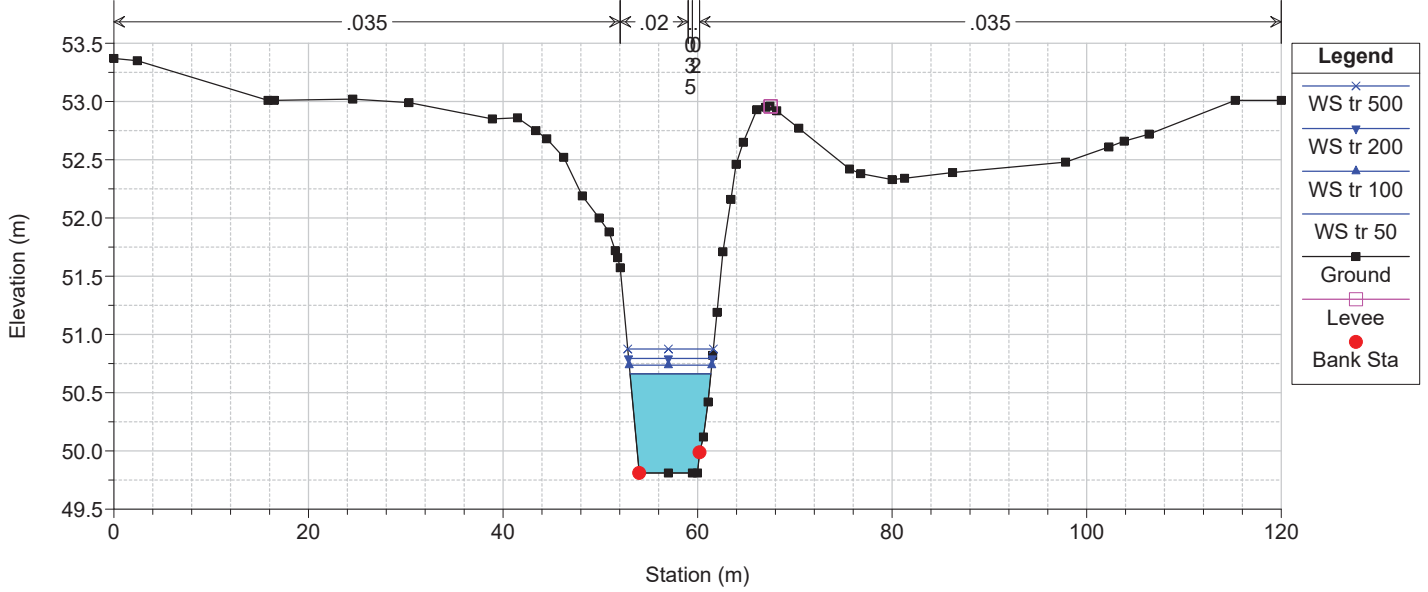
River = 72425 Reach = Asta RS = 1200 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

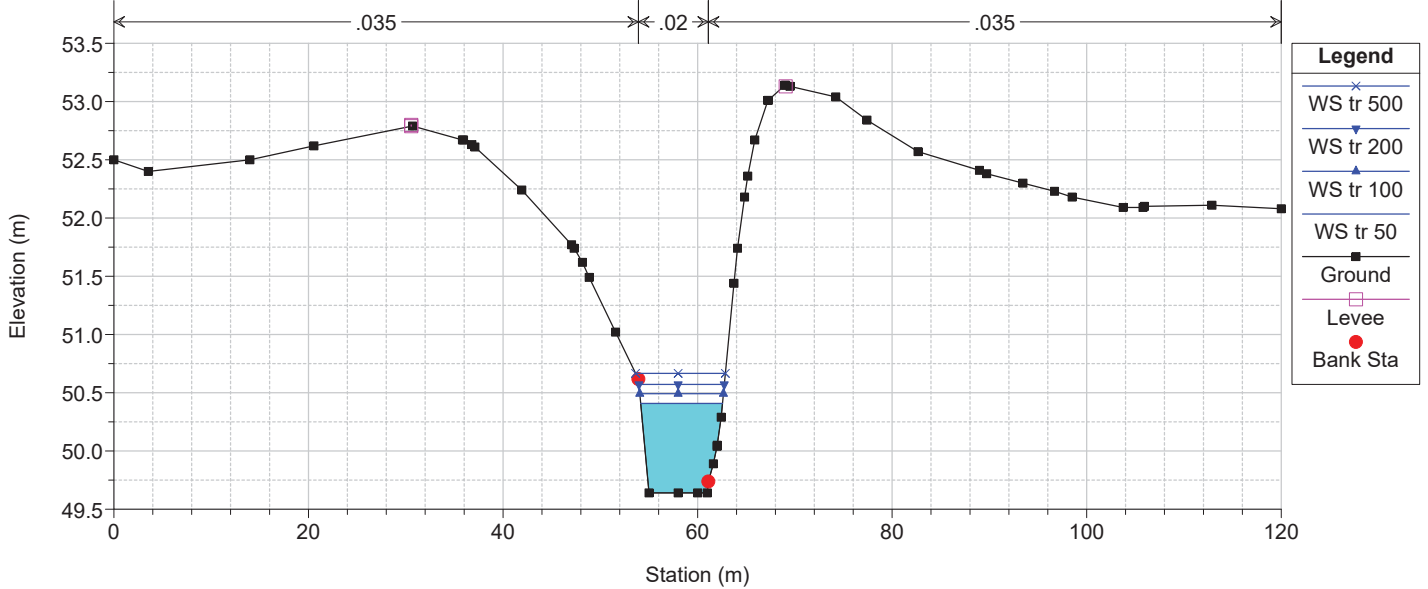
River = 72425 Reach = Asta RS = 1150 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

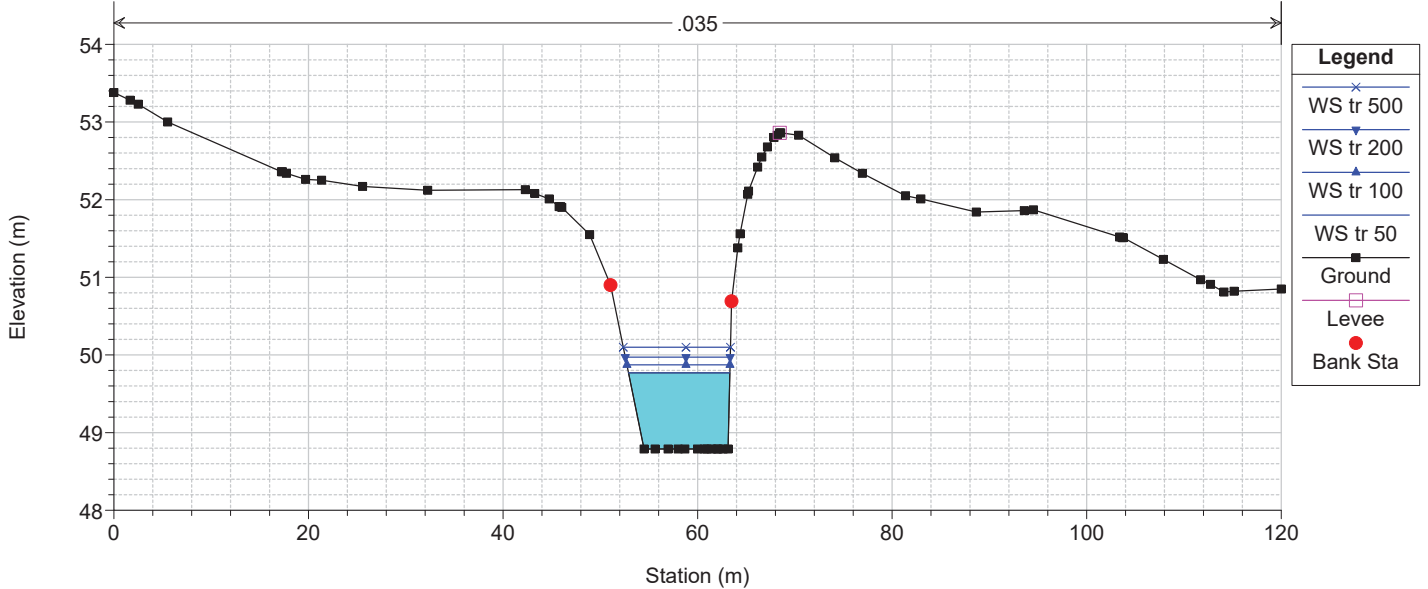
River = 72425 Reach = Asta RS = 1100 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

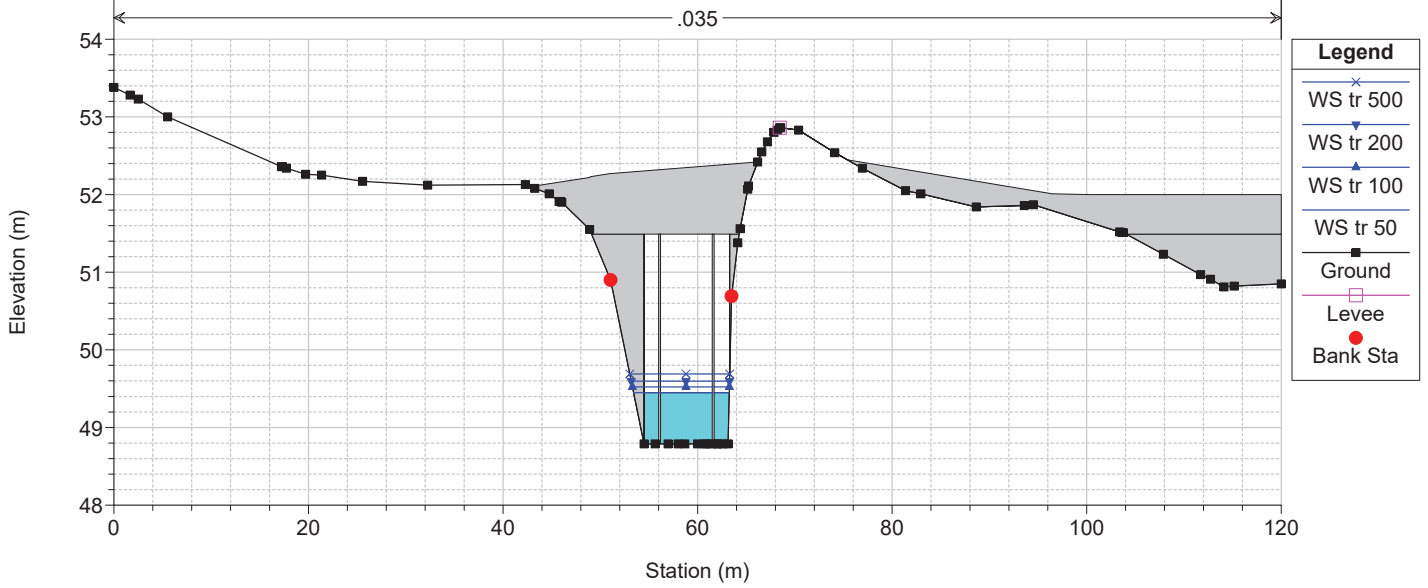
River = 72425 Reach = Asta RS = 1057.457 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

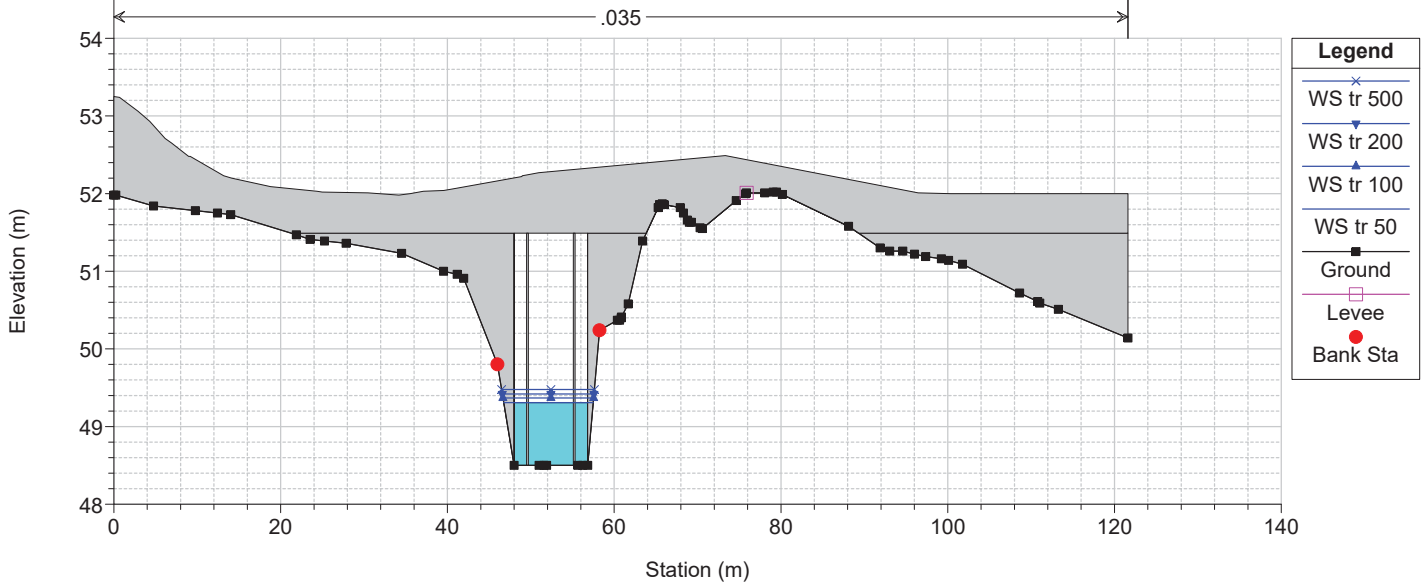
River = 72425 Reach = Asta RS = 1041.848 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

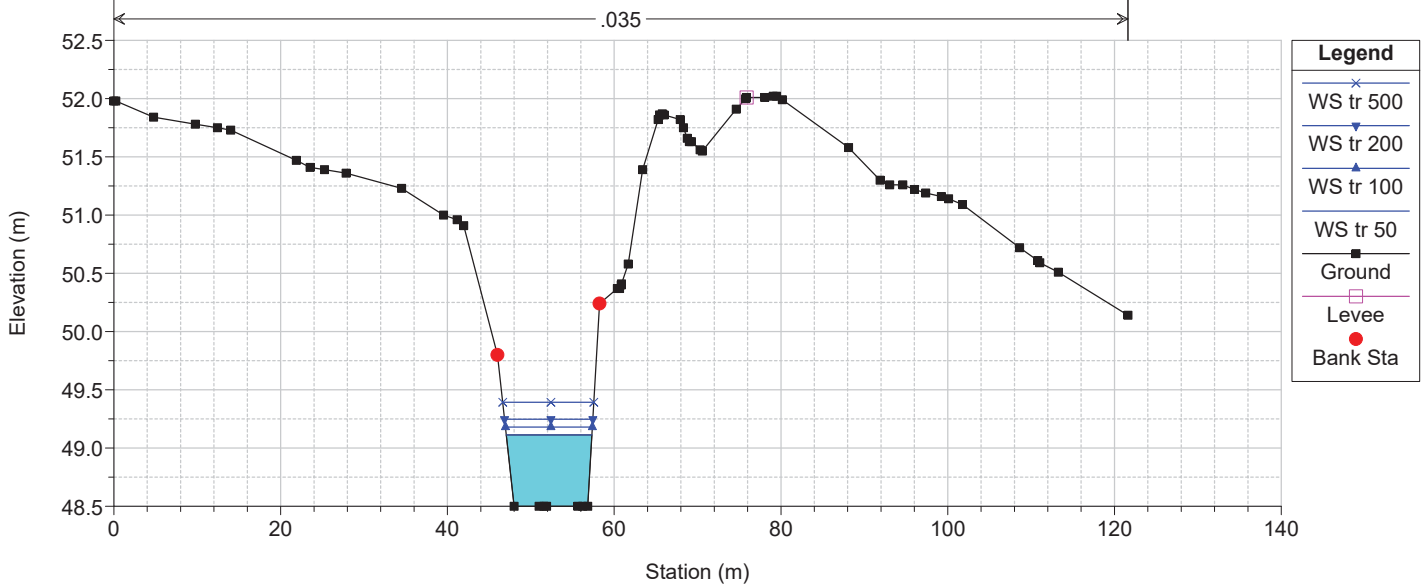
River = 72425 Reach = Asta RS = 1041.848 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

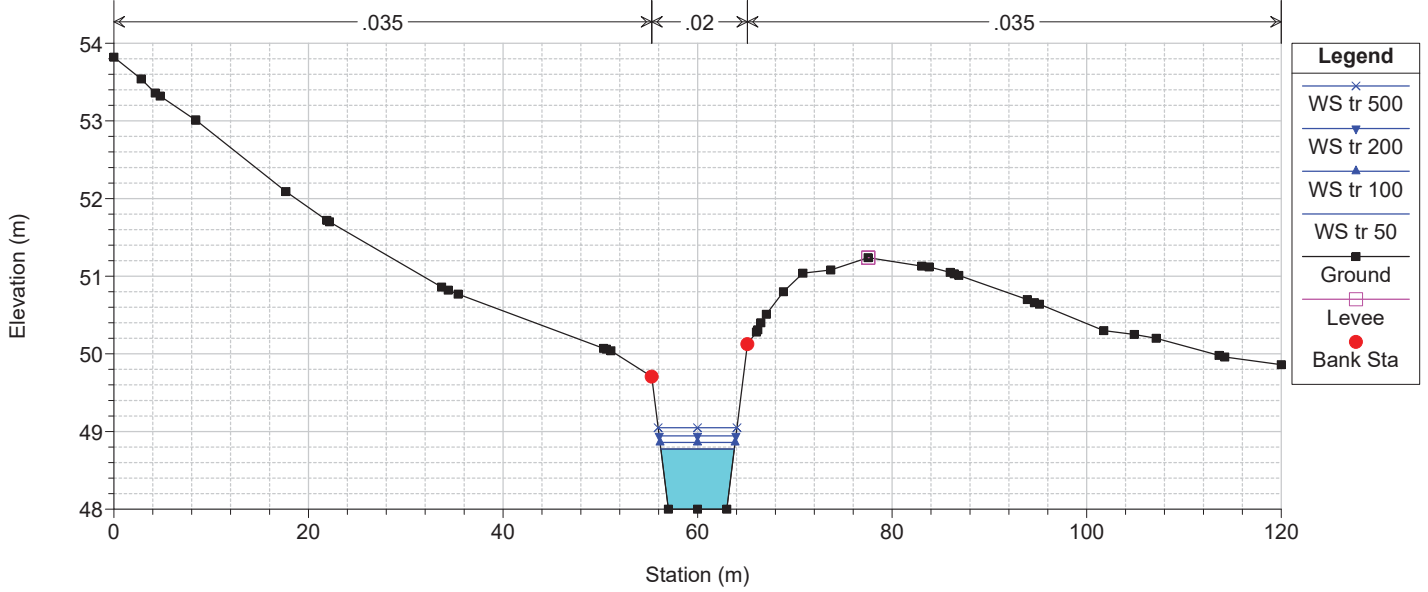
River = 72425 Reach = Asta RS = 1028.632 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

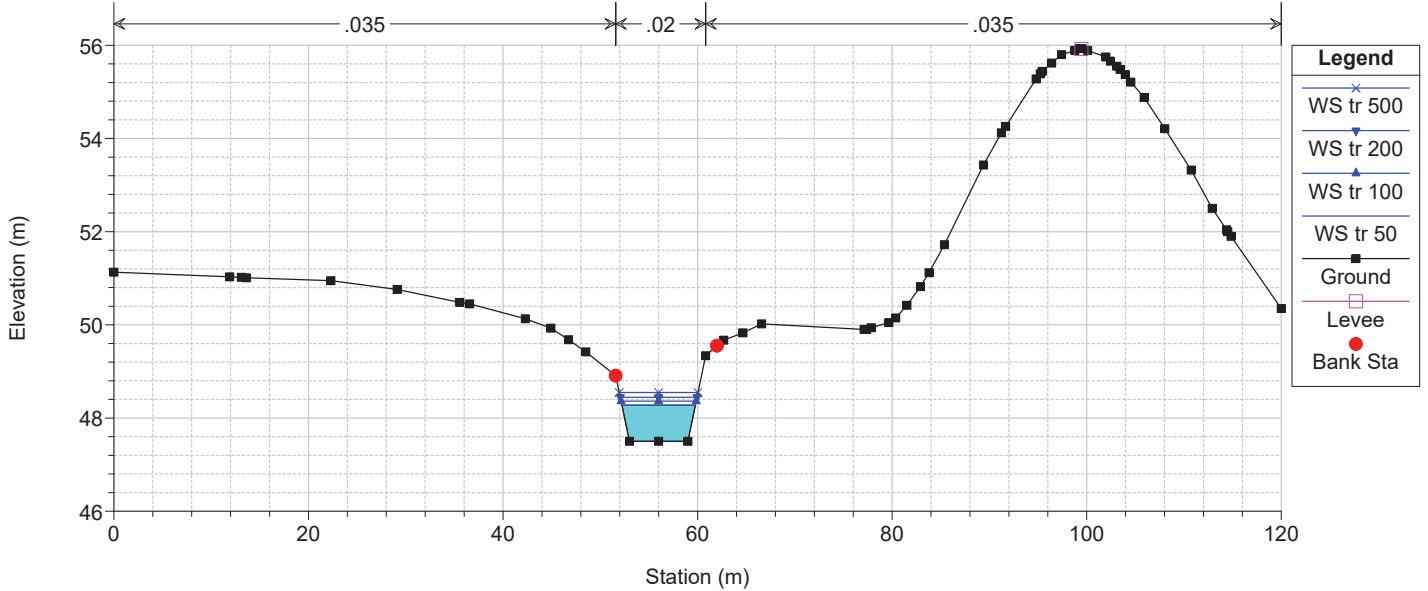
River = 72425 Reach = Asta RS = 999.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

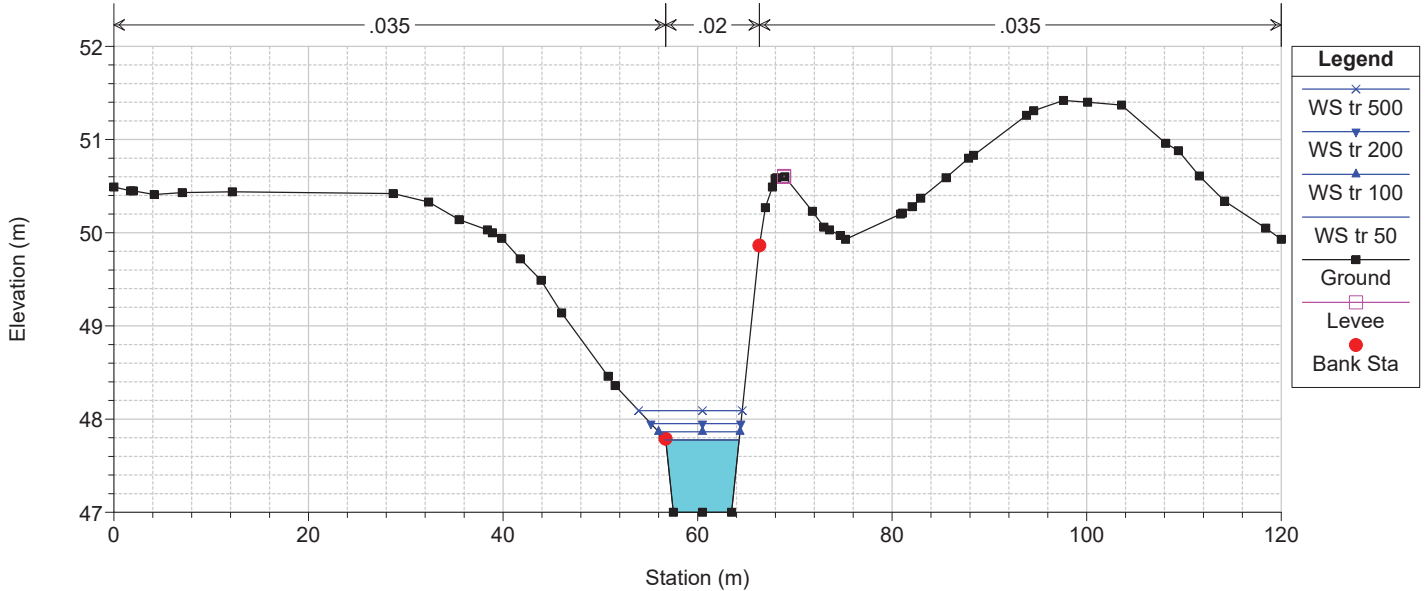
River = 72425 Reach = Asta RS = 950.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

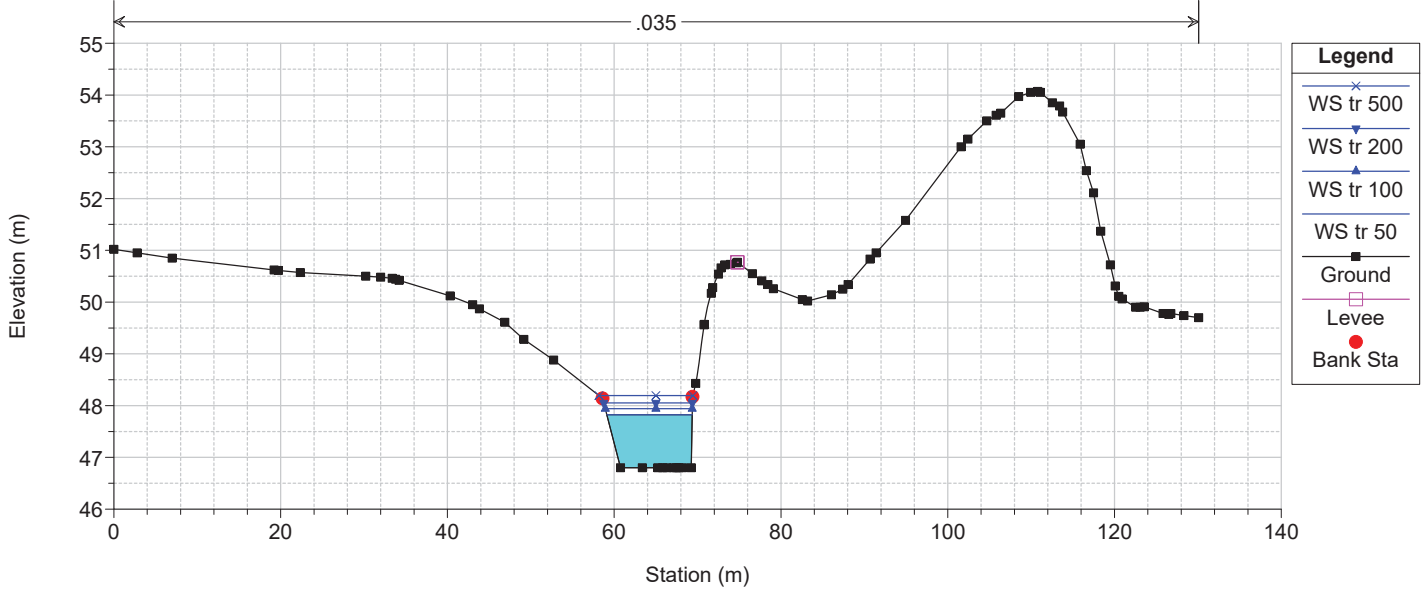
River = 72425 Reach = Asta RS = 899.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

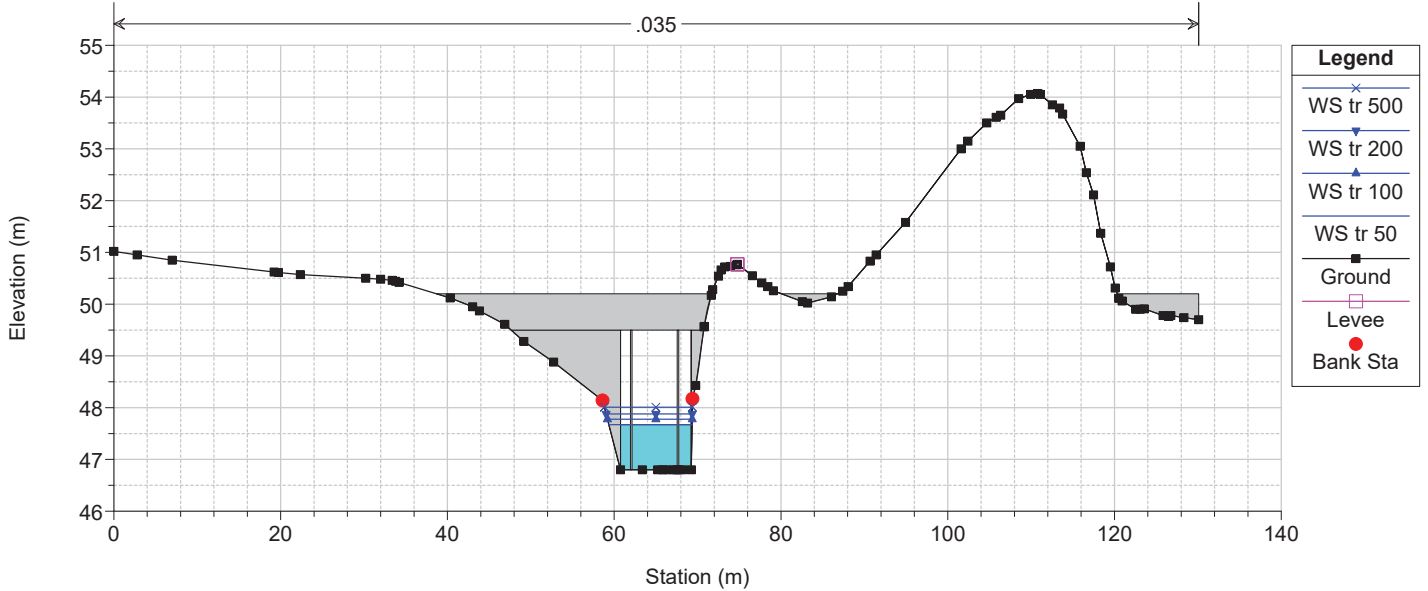
River = 72425 Reach = Asta RS = 874.4871 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

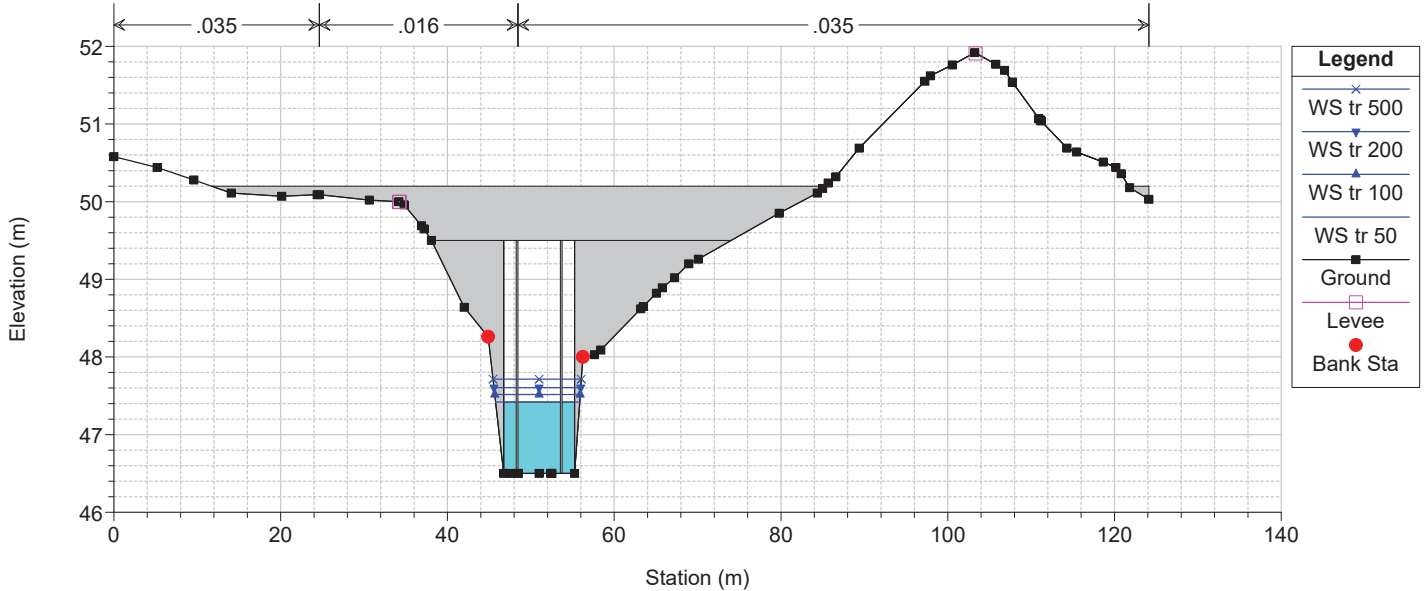
River = 72425 Reach = Asta RS = 858.4899 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

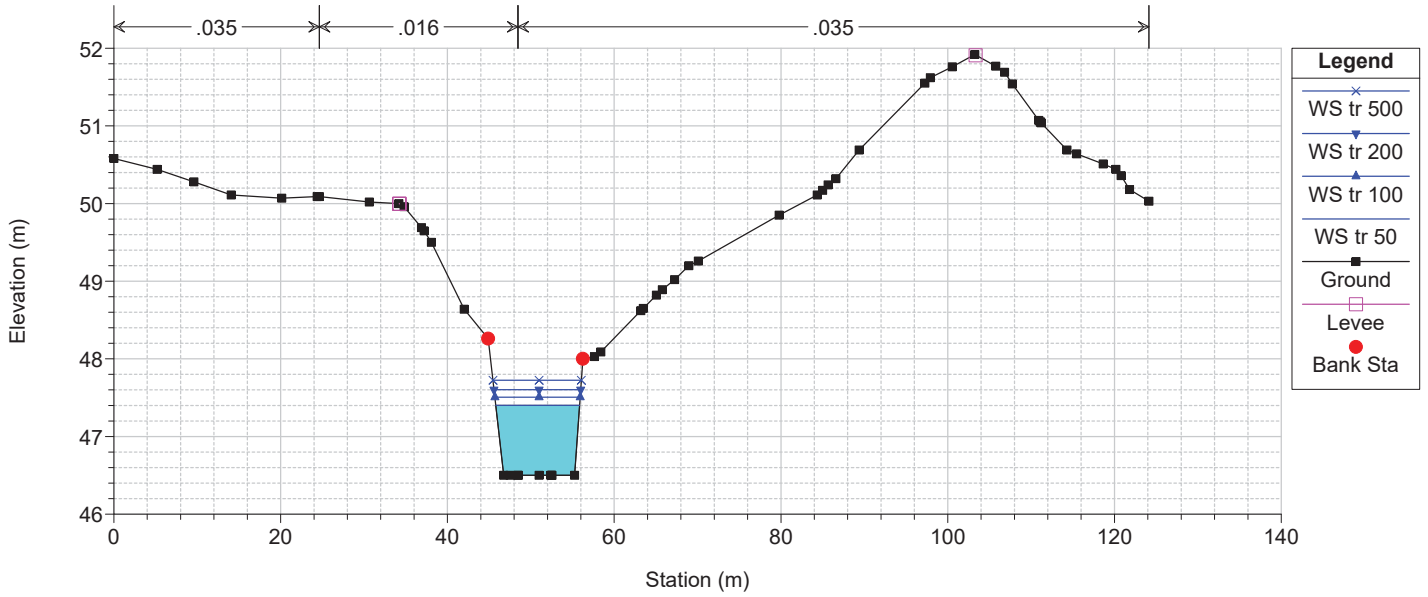
River = 72425 Reach = Asta RS = 858.4899 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

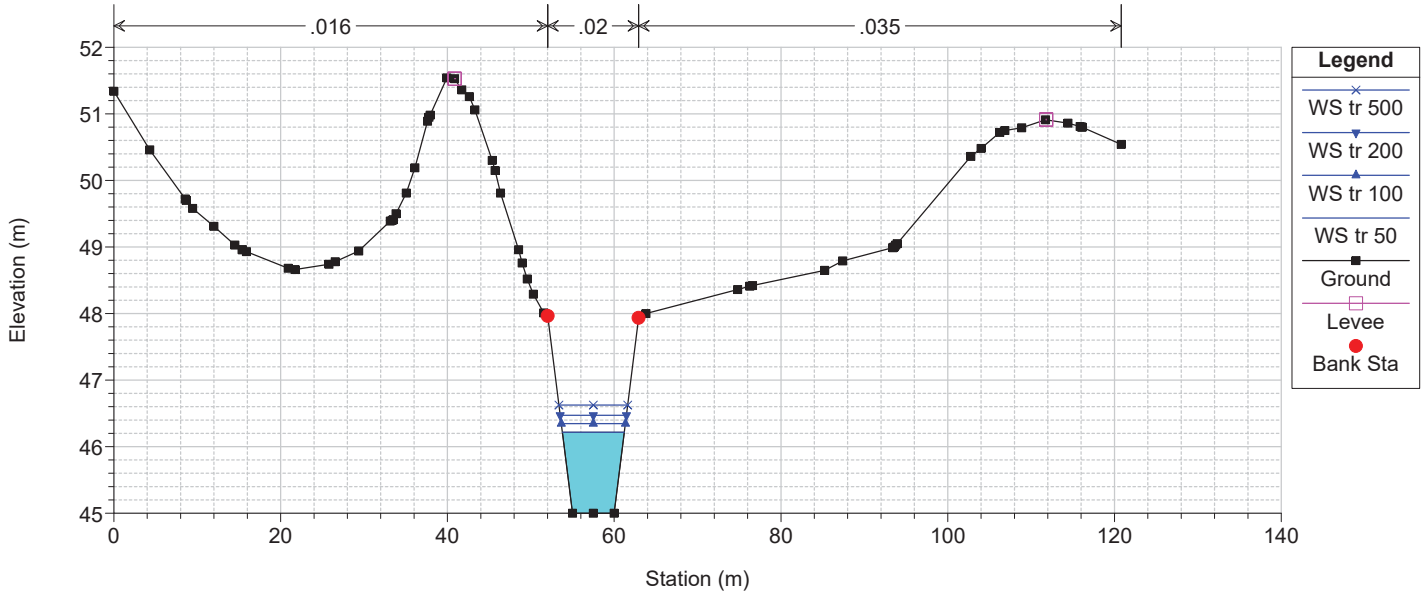
River = 72425 Reach = Asta RS = 825.8108 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

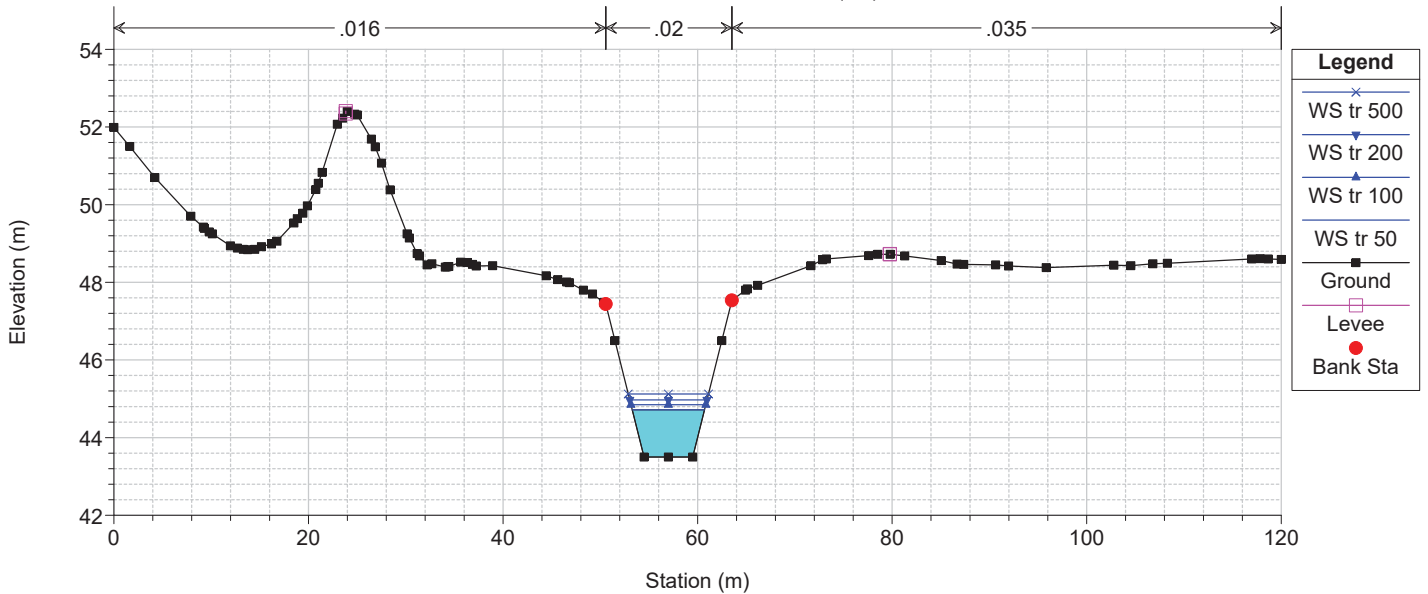
River = 72425 Reach = Asta RS = 792.9191 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

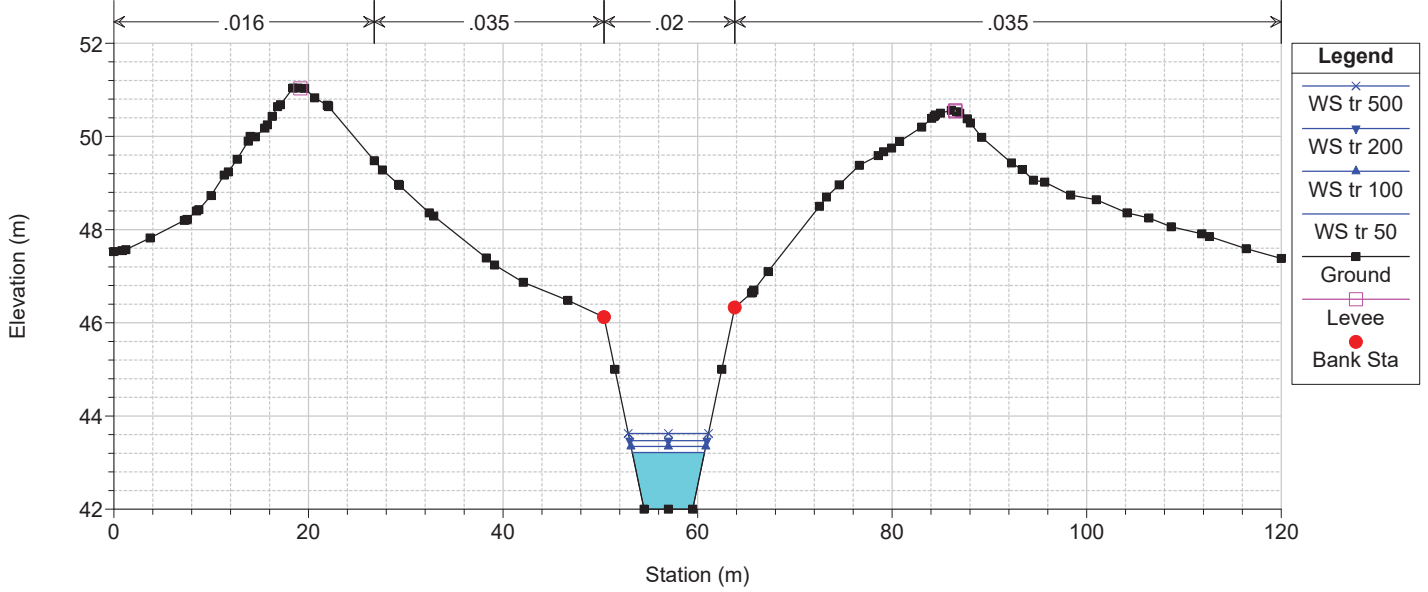
River = 72425 Reach = Asta RS = 750 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

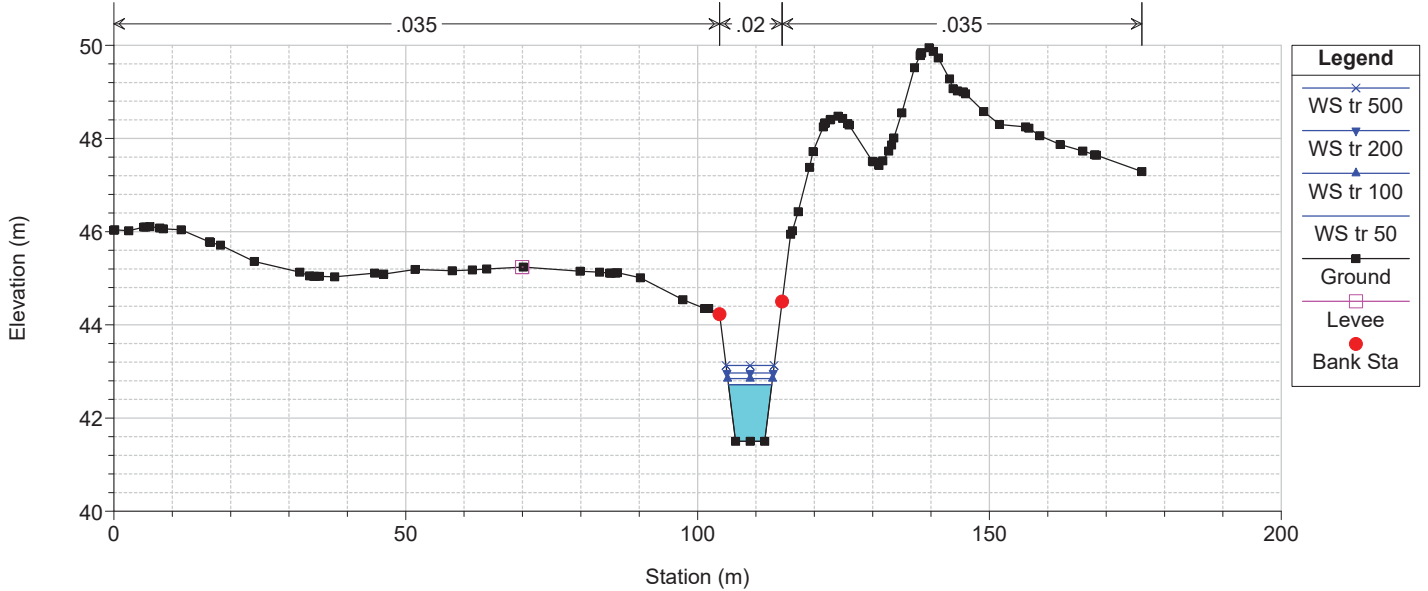
River = 72425 Reach = Asta RS = 699.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

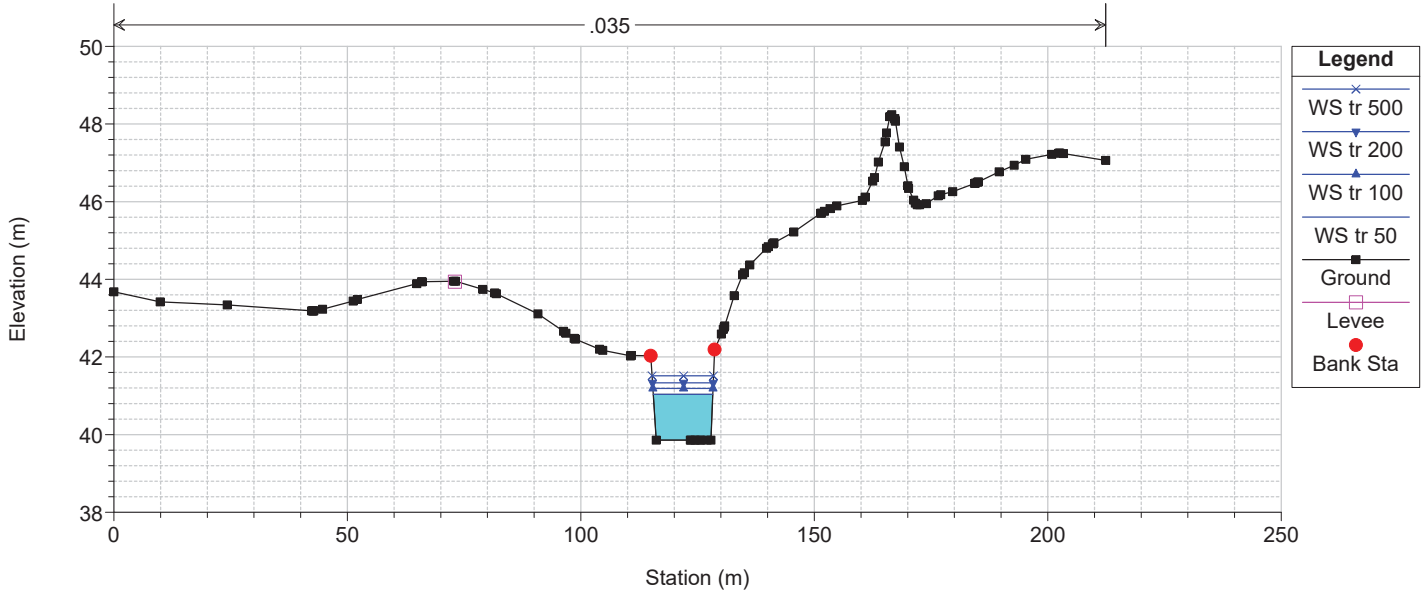
River = 72425 Reach = Asta RS = 667.4977 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

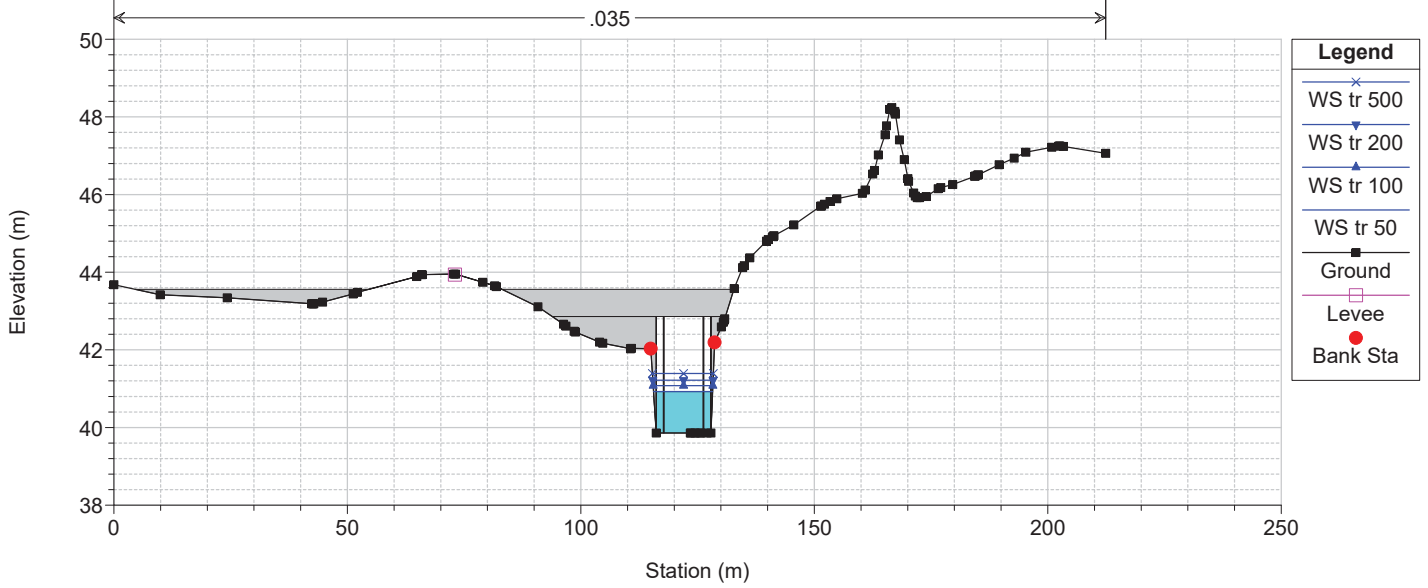
River = 72425 Reach = Asta RS = 629.2197 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

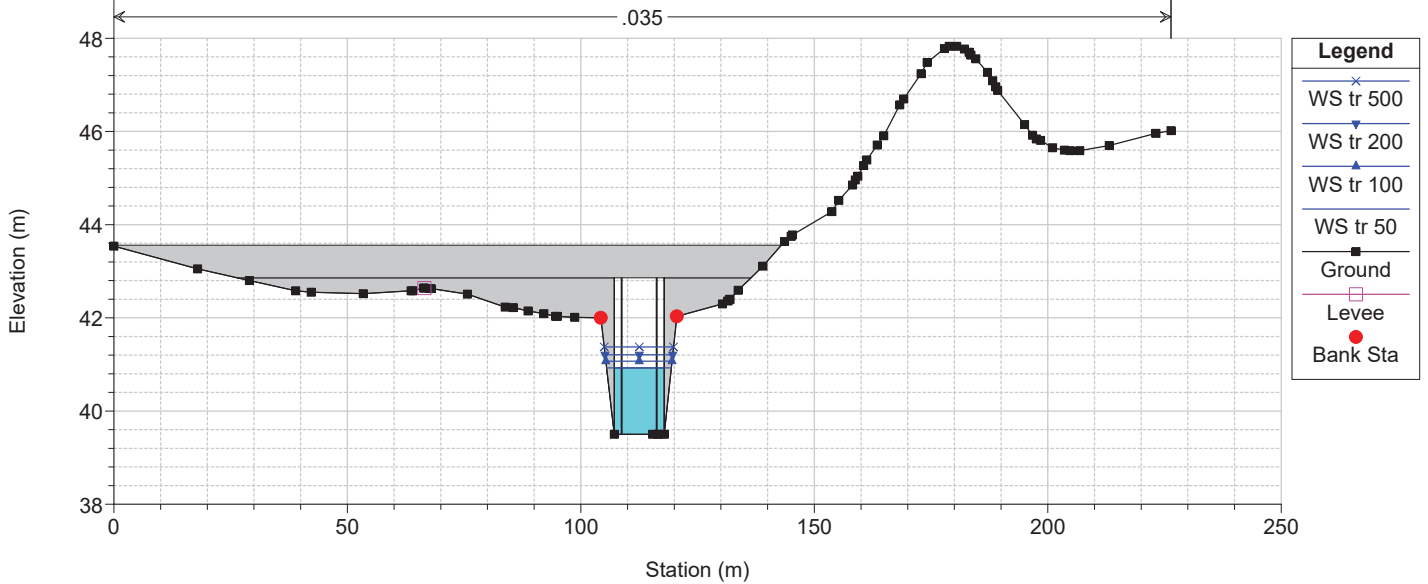
River = 72425 Reach = Asta RS = 611.8381 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

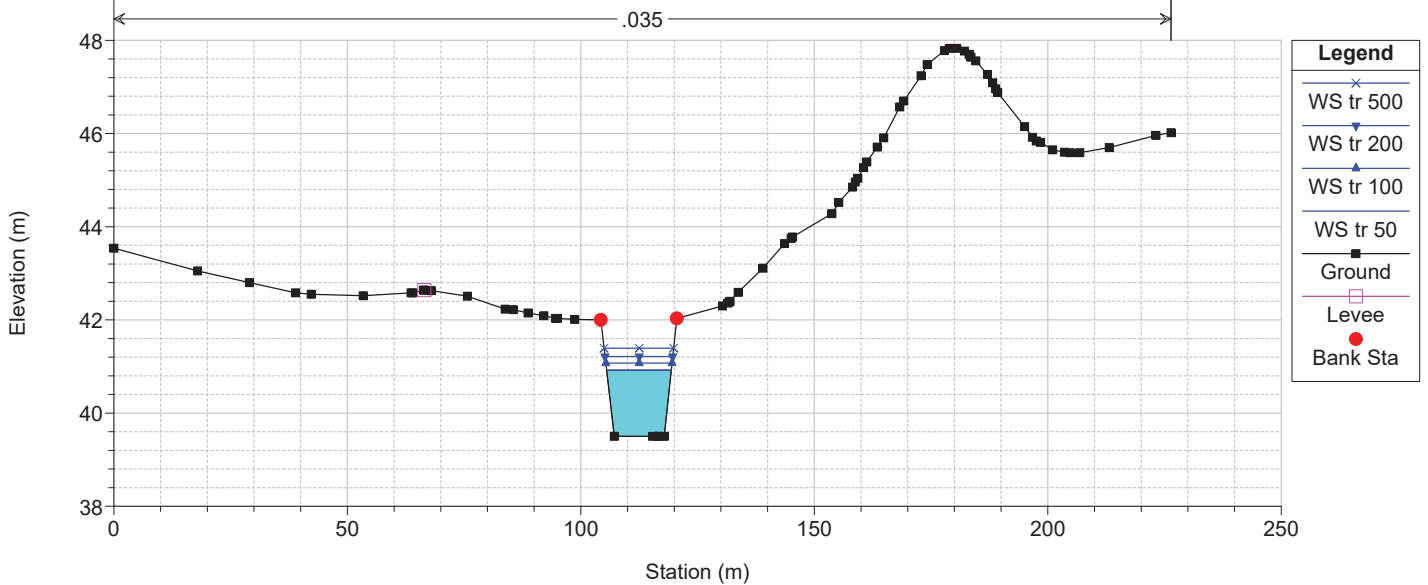
River = 72425 Reach = Asta RS = 611.8381 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

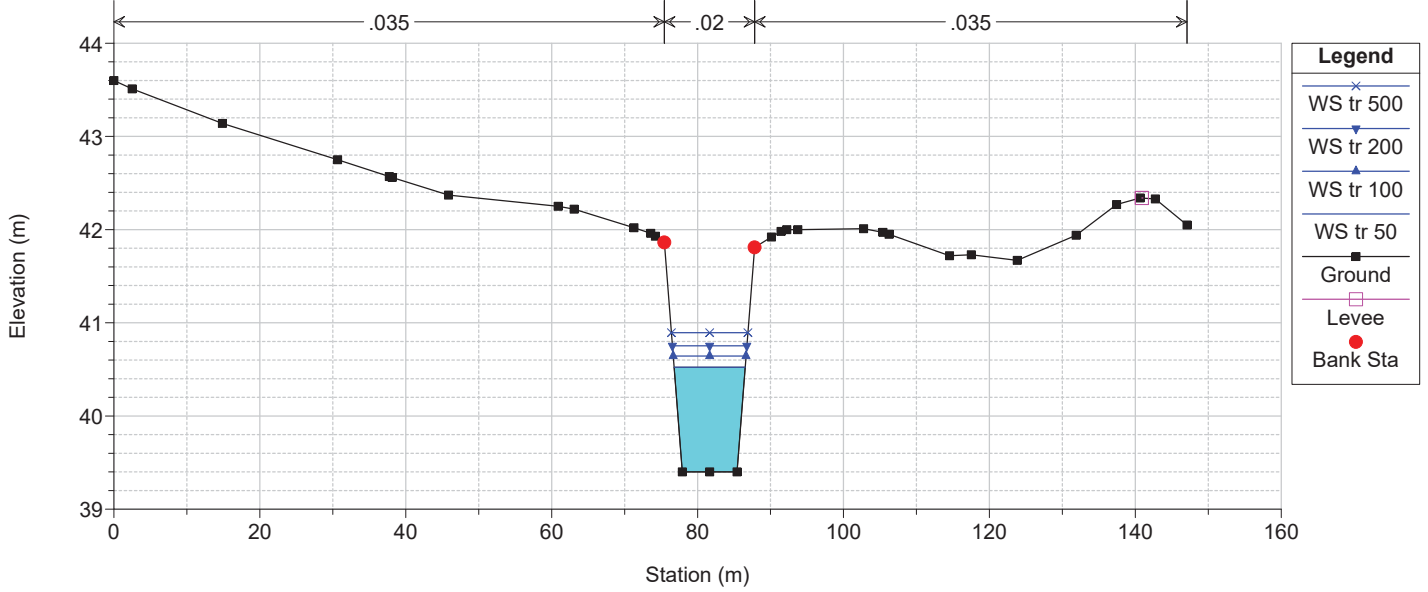
River = 72425 Reach = Asta RS = 600.9209 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

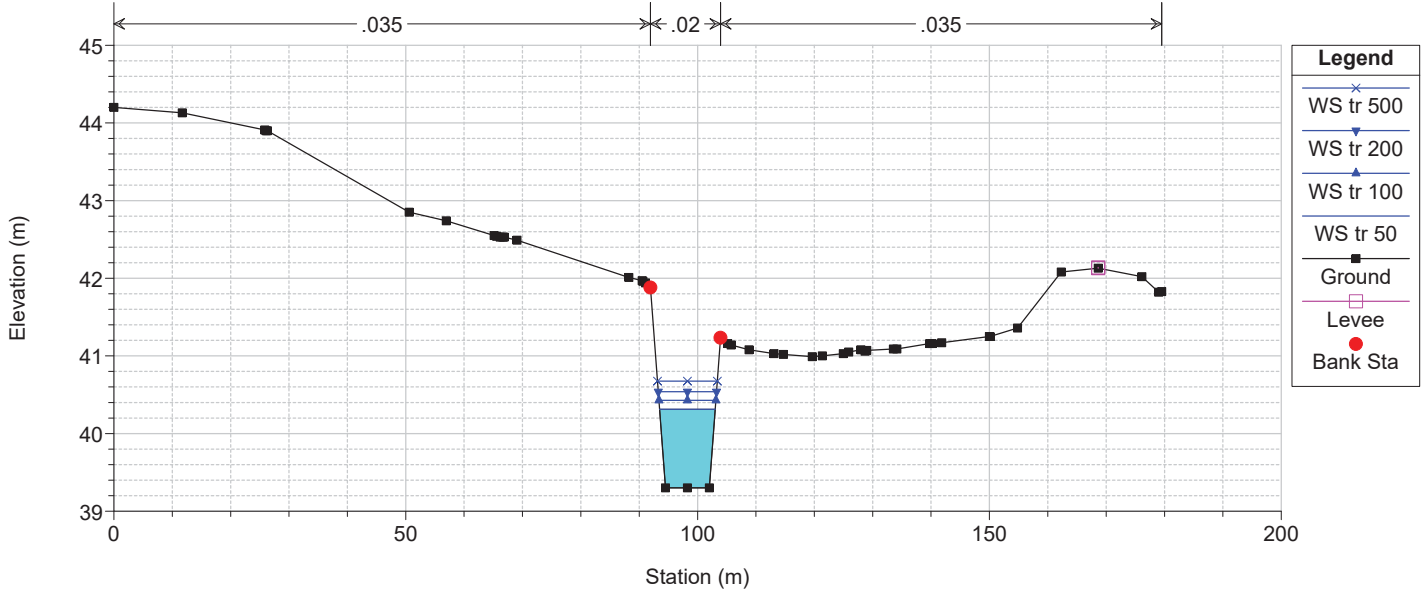
River = 72425 Reach = Asta RS = 552.3627 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

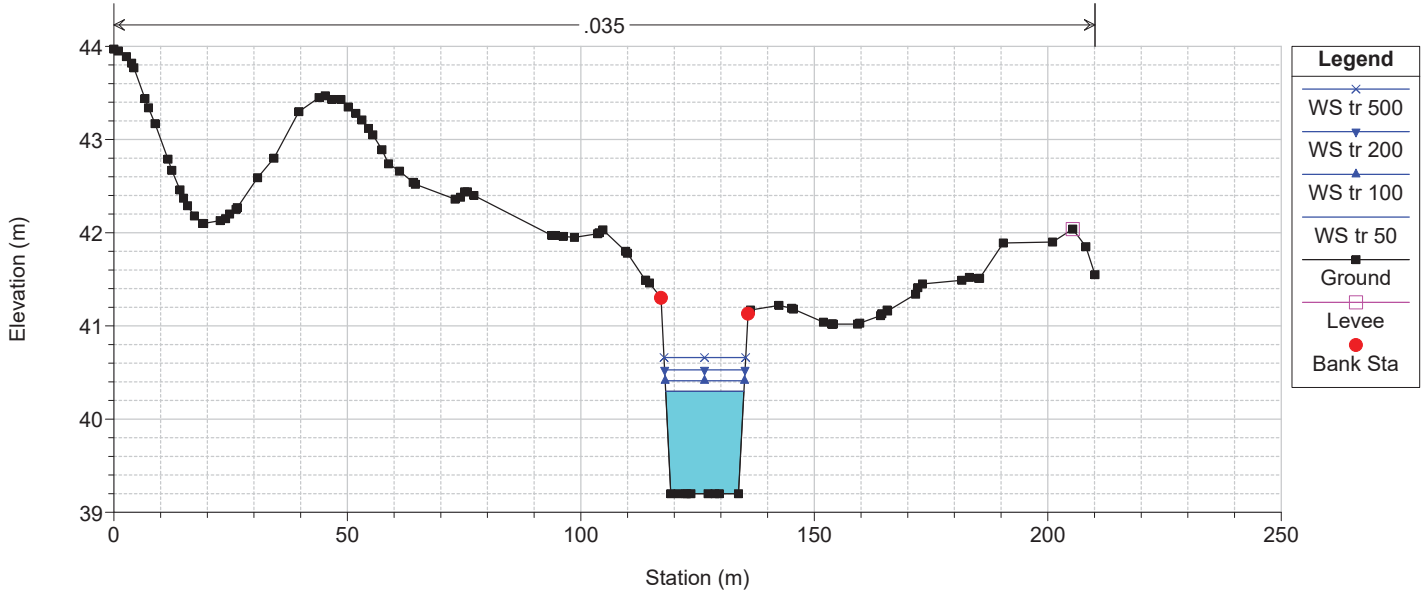
River = 72425 Reach = Asta RS = 523.929 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

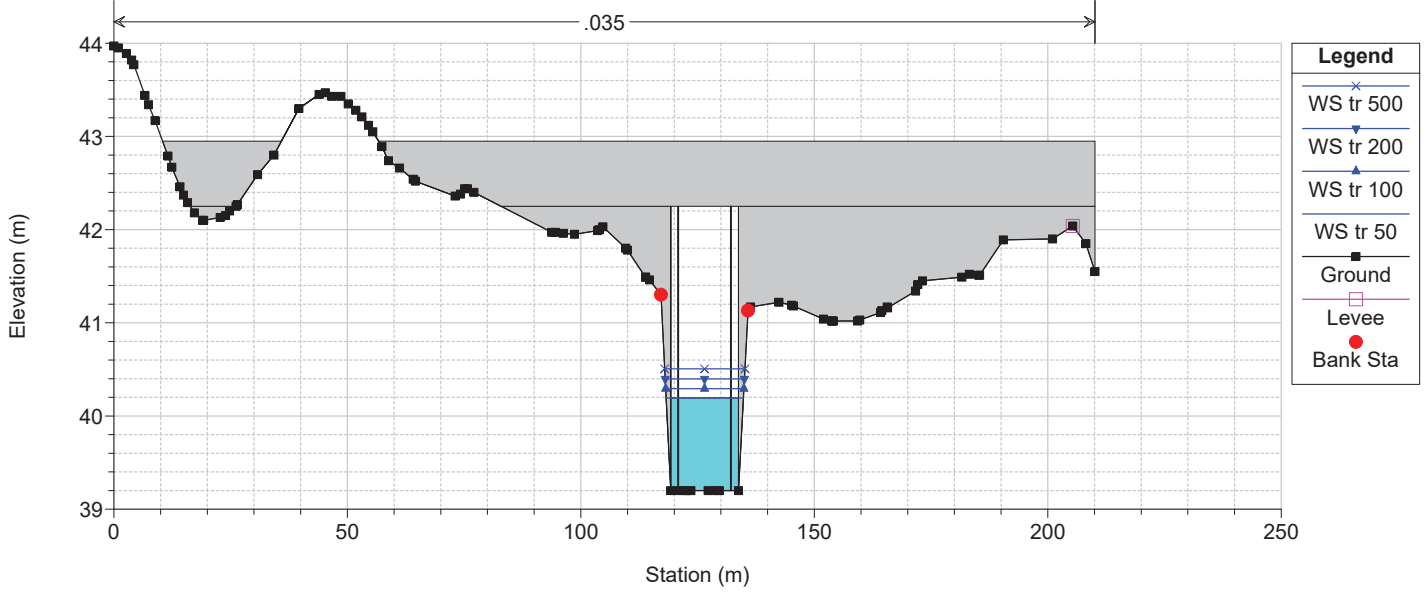
River = 72425 Reach = Asta RS = 496.7194 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

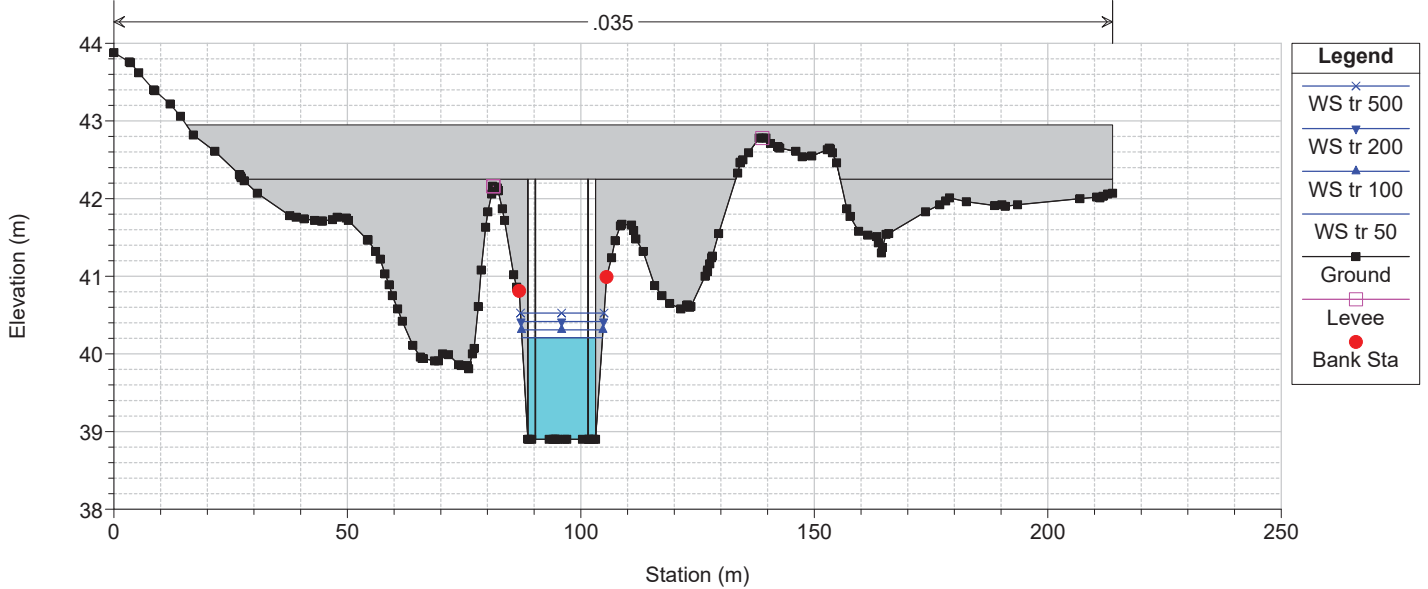
River = 72425 Reach = Asta RS = 483.6925 BR COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

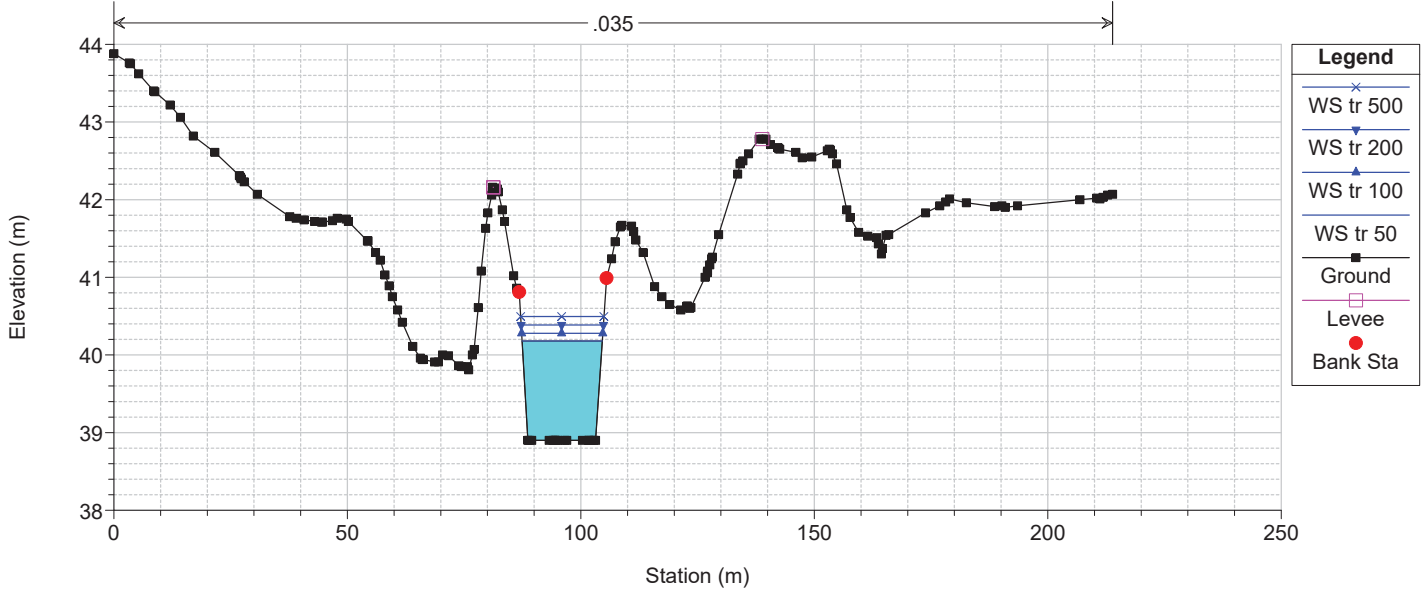
River = 72425 Reach = Asta RS = 483.6925 BR COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

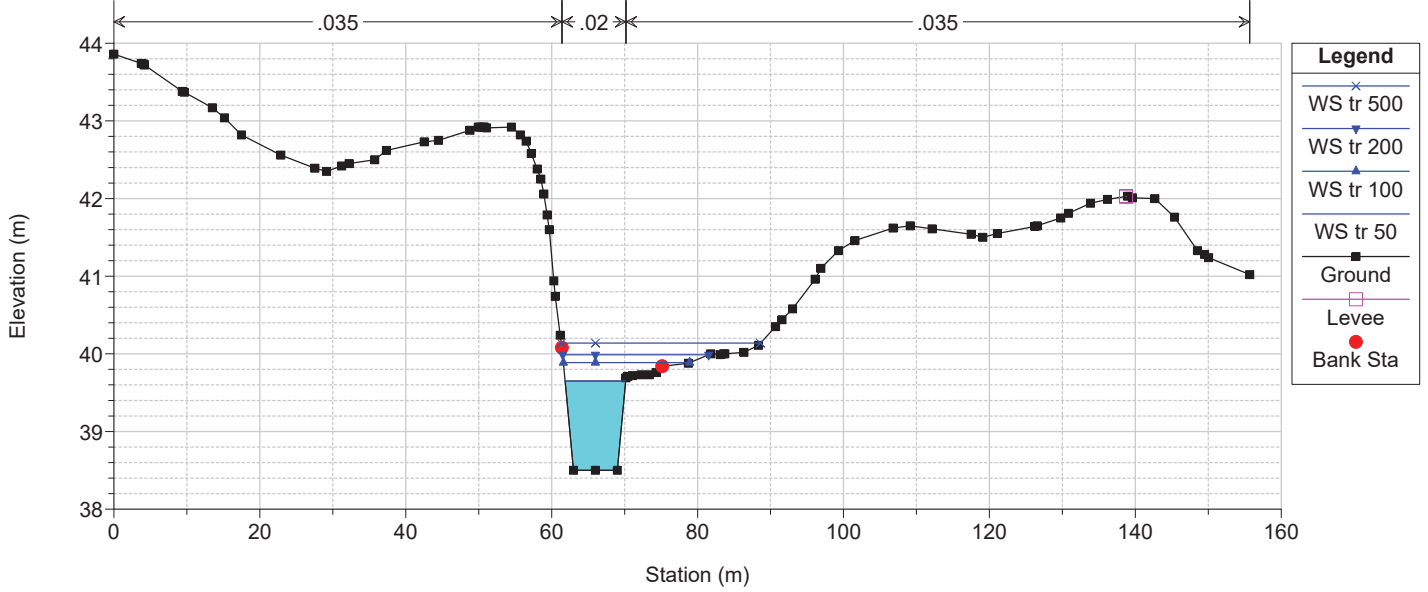
River = 72425 Reach = Asta RS = 459.7868 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

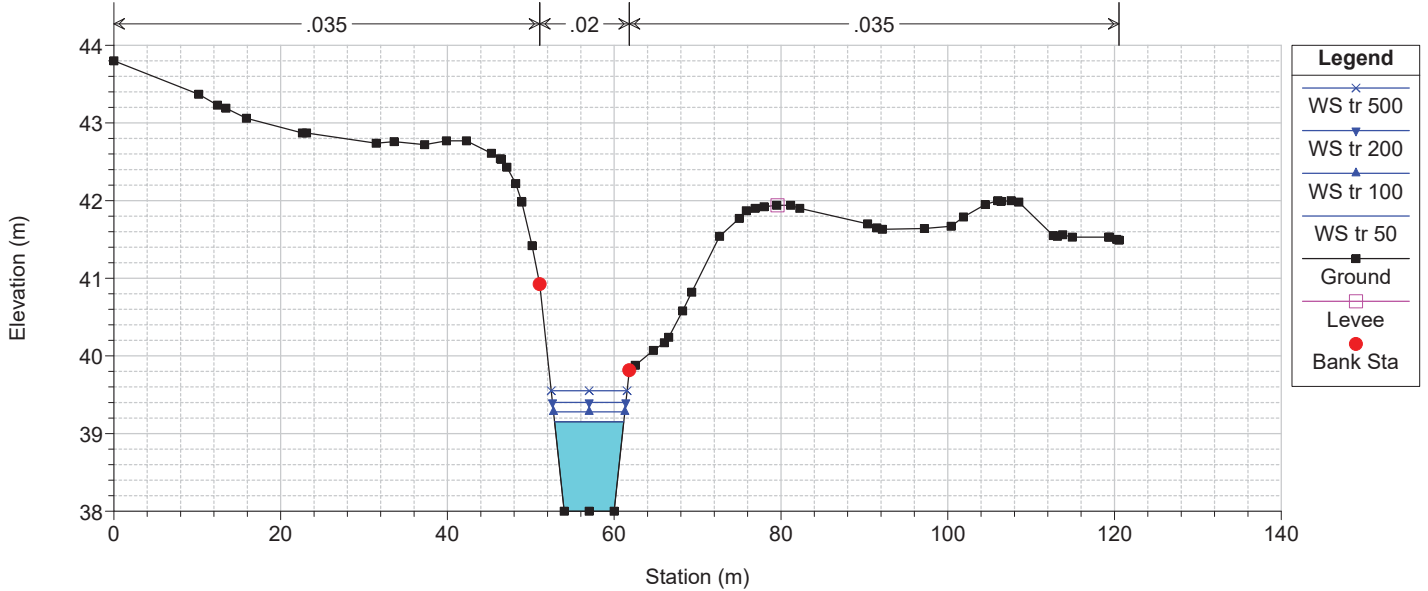
River = 72425 Reach = Asta RS = 431.9053 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

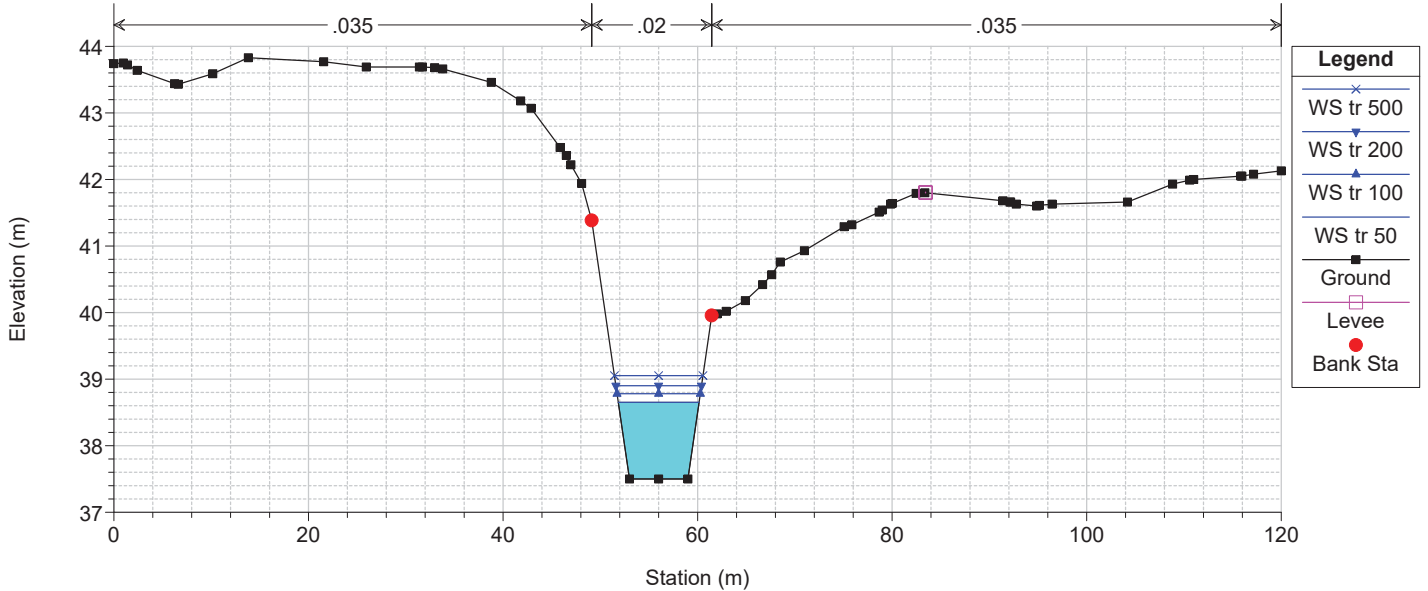
River = 72425 Reach = Asta RS = 398.3658 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

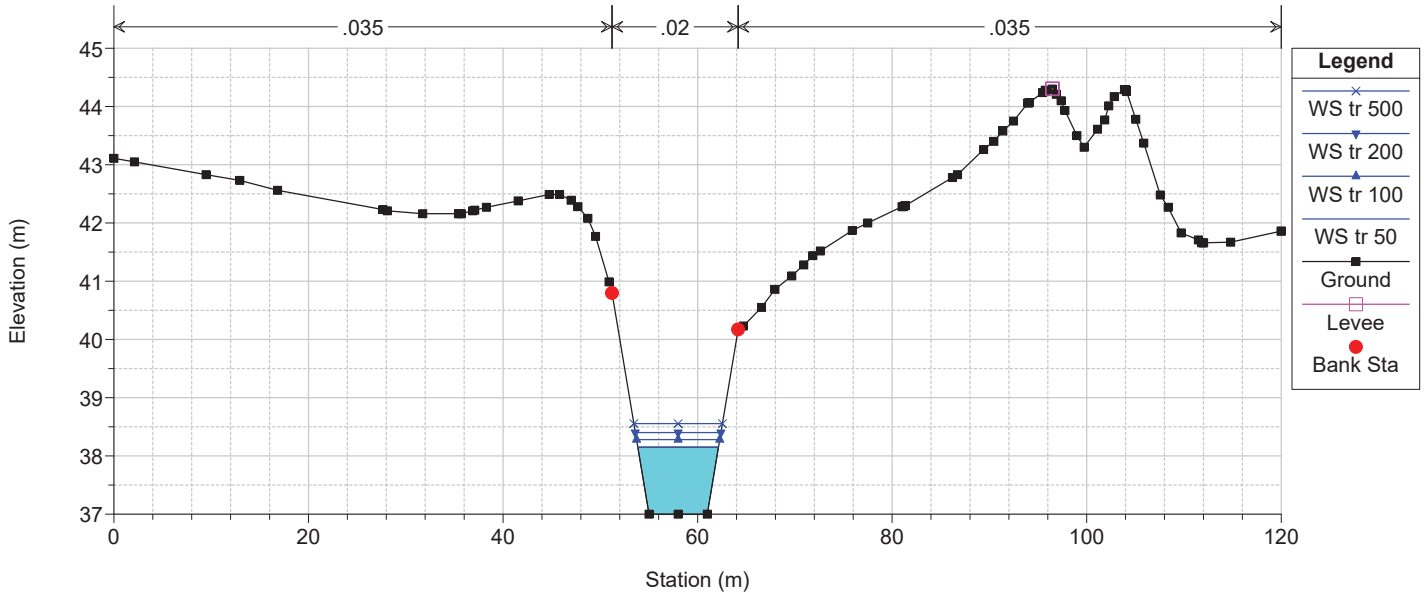
River = 72425 Reach = Asta RS = 350 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

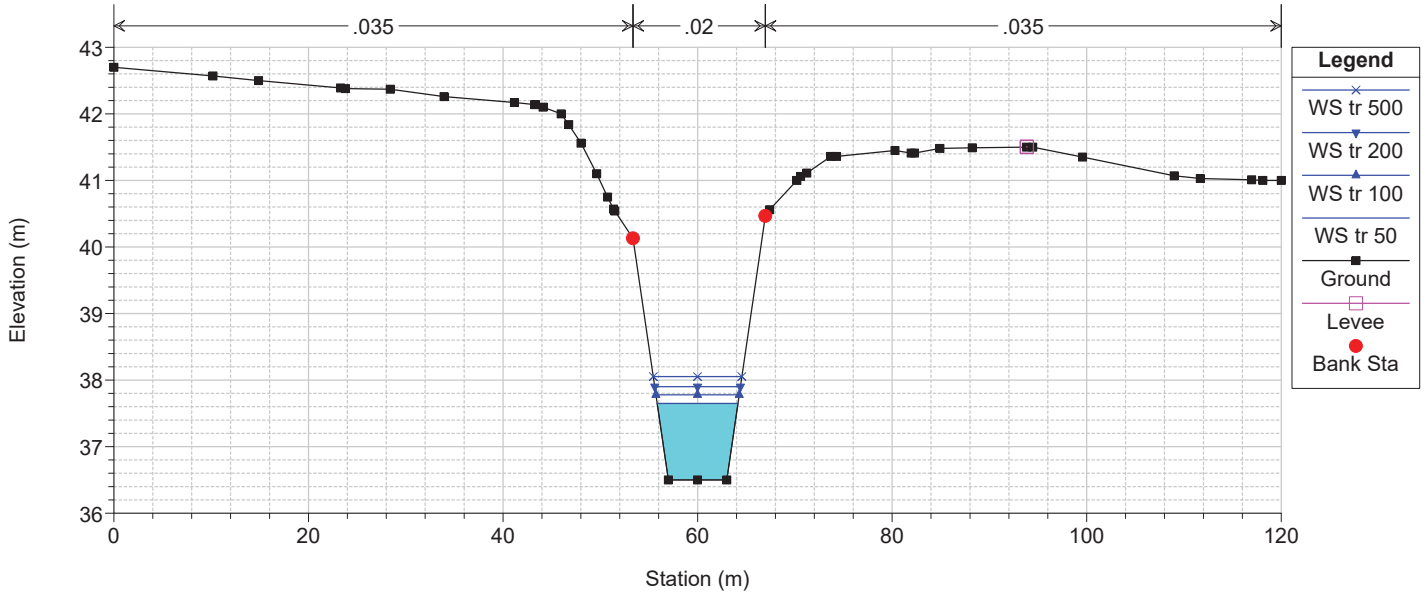
River = 72425 Reach = Asta RS = 300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

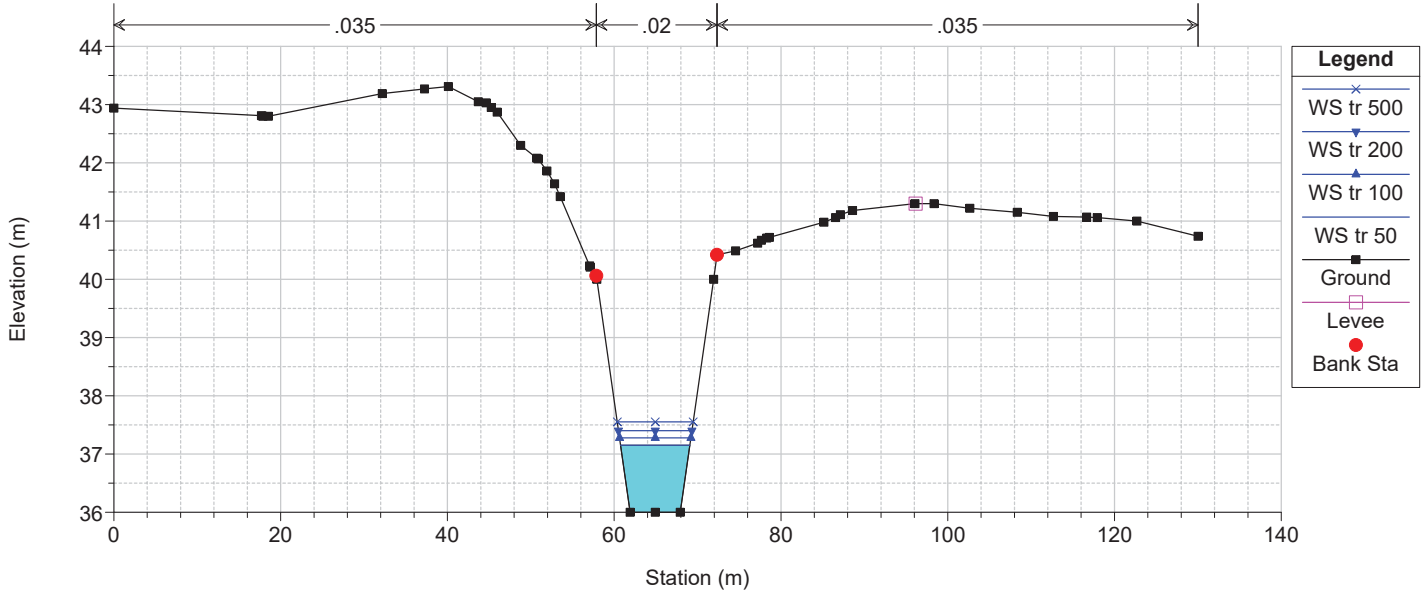
River = 72425 Reach = Asta RS = 250 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

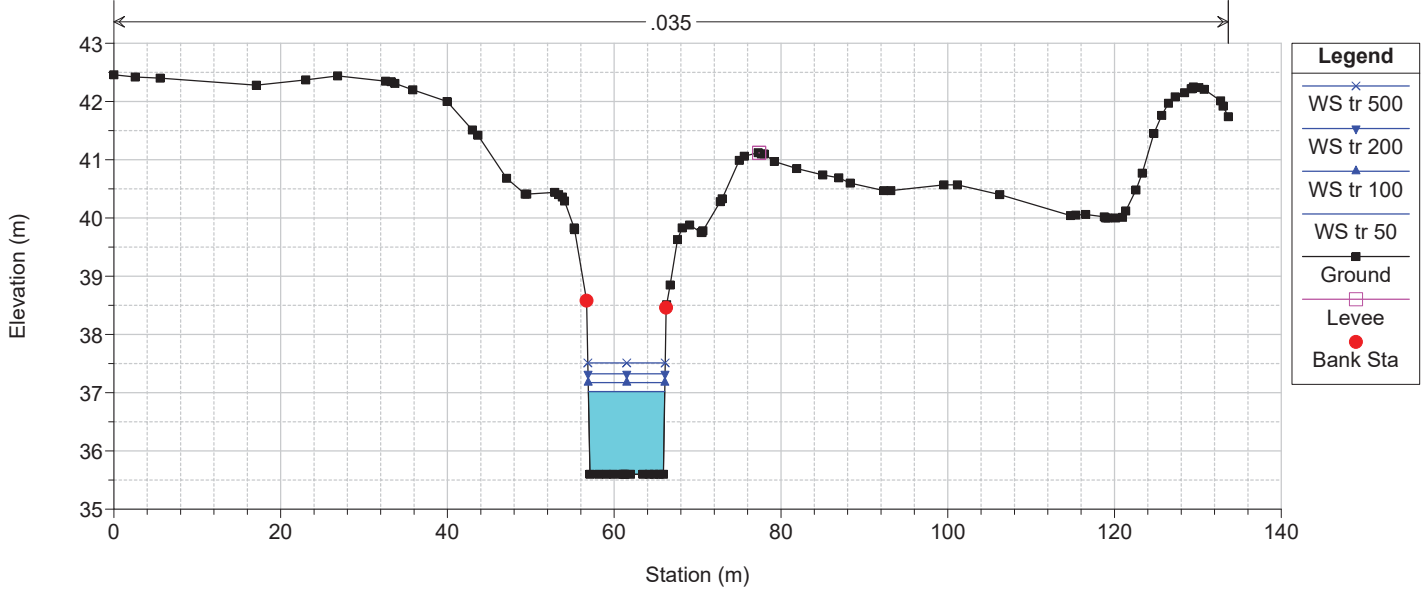
River = 72425 Reach = Asta RS = 215.693 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

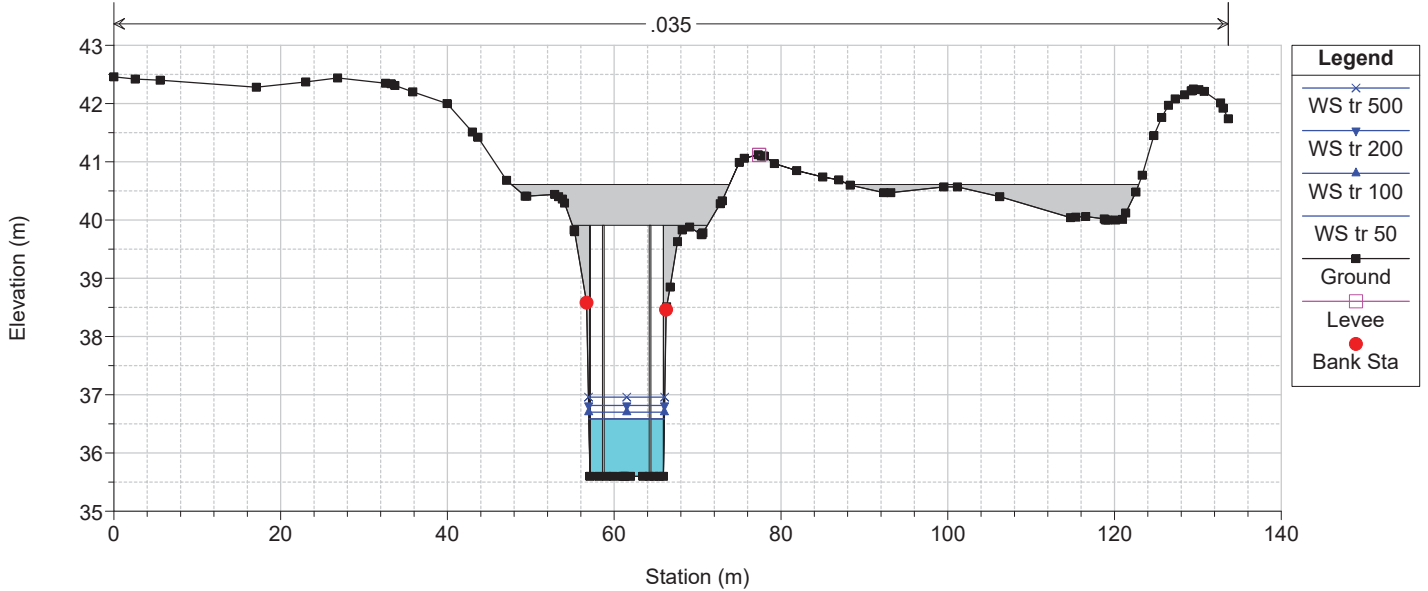
River = 72425 Reach = Asta RS = 185.4014 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

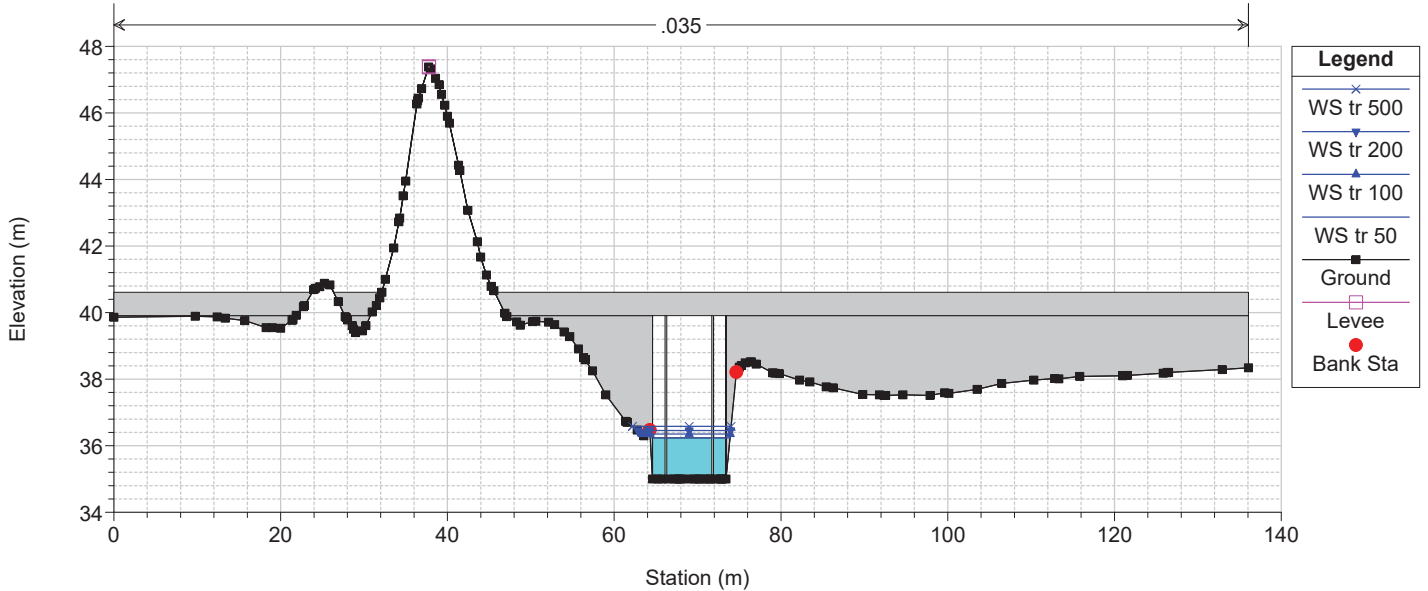
River = 72425 Reach = Asta RS = 166.0982 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

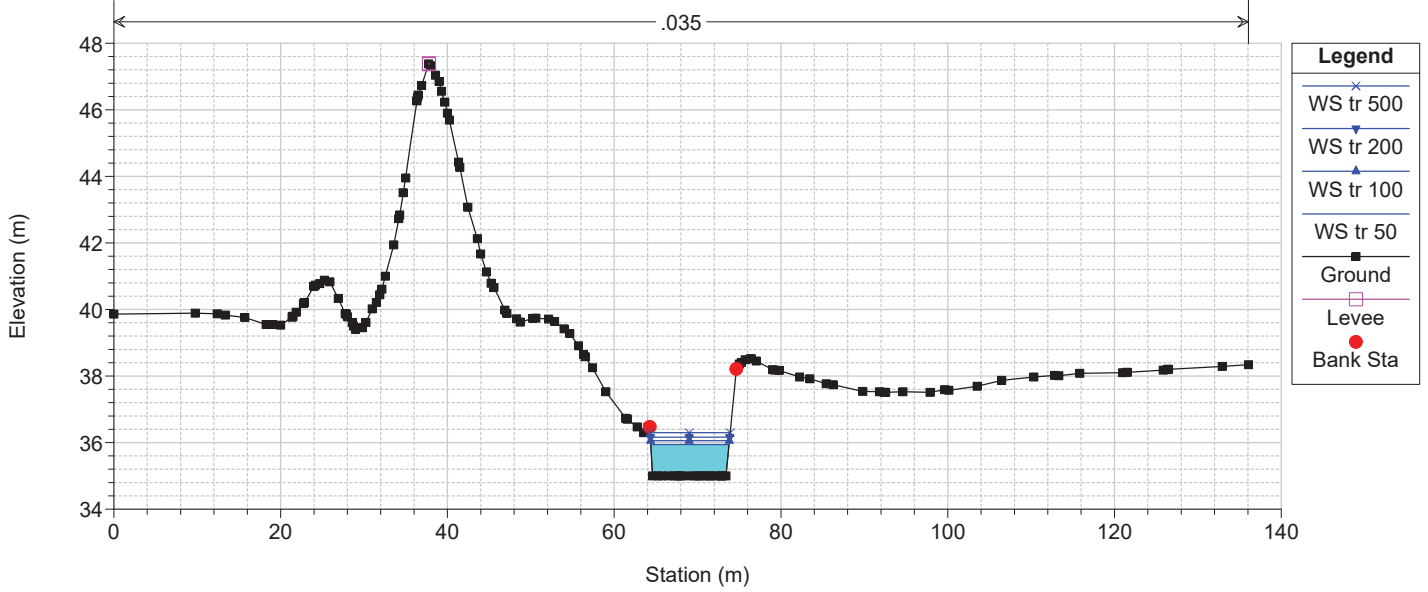
River = 72425 Reach = Asta RS = 166.0982 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

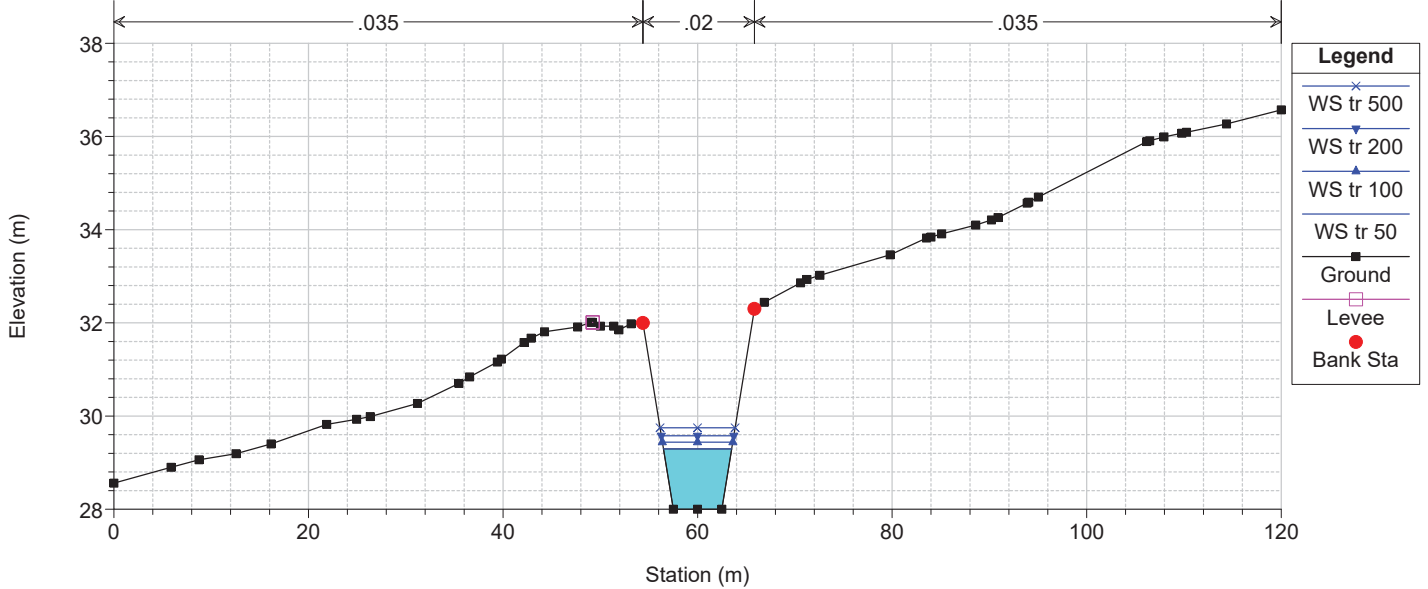
River = 72425 Reach = Asta RS = 152.8832 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

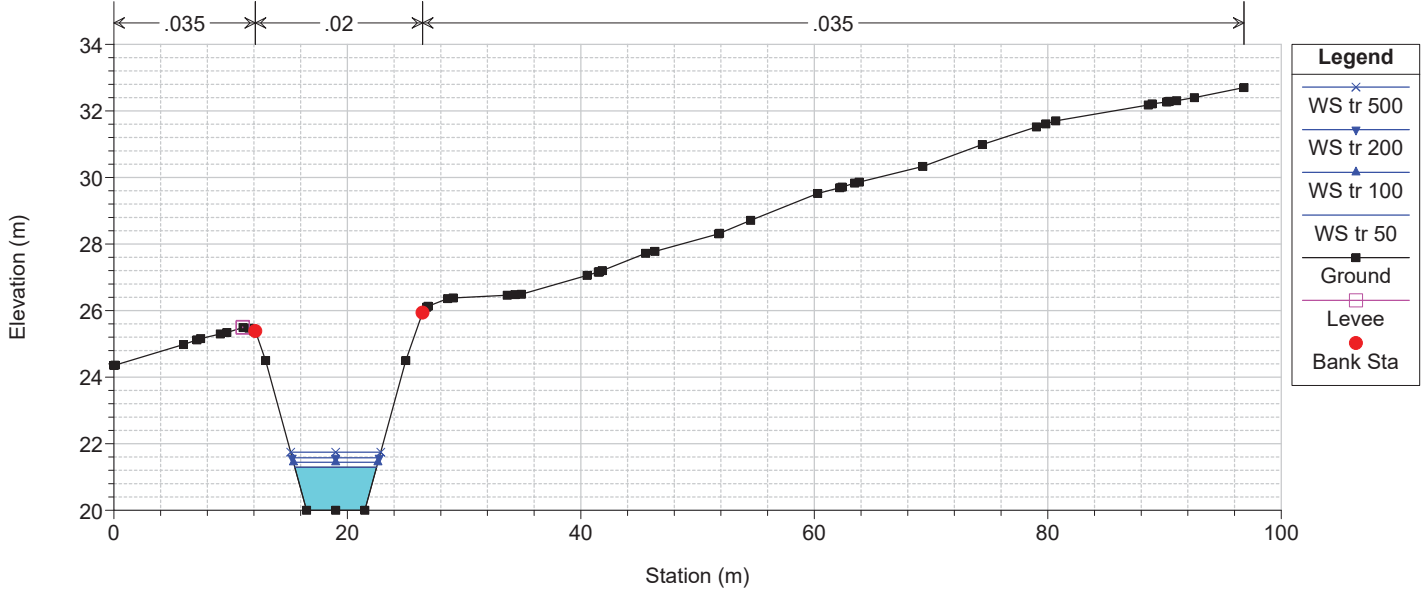
River = 72425 Reach = Asta RS = 100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

River = 72425 Reach = Asta RS = 50.87643 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



HEC-RAS Plan:

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	57.44	57.44	57.86	0.004008	2.92	6.18	7.97	0.99
Asta	1600	tr 200	18.72	56.56	57.53	57.53	57.98	0.003867	3.05	6.88	8.16	0.99
Asta	1600	tr 500	22.07	56.56	57.64	57.64	58.14	0.003711	3.21	7.79	8.40	0.99
Asta	1550	tr 50	13.78	55.35	56.12	56.12	56.47	0.004928	2.60	5.30	7.72	1.00
Asta	1550	tr 100	16.24	55.35	56.21	56.21	56.59	0.004790	2.72	5.97	7.91	1.00
Asta	1550	tr 200	18.72	55.35	56.29	56.29	56.70	0.004707	2.83	6.61	8.09	1.00
Asta	1550	tr 500	22.07	55.35	56.39	56.39	56.84	0.004599	2.96	7.44	8.31	1.00
Asta	1500	tr 50	13.78	53.91	54.68	54.68	55.03	0.004909	2.60	5.31	7.72	1.00
Asta	1500	tr 100	16.24	53.91	54.77	54.77	55.15	0.004777	2.72	5.97	7.91	1.00
Asta	1500	tr 200	18.72	53.91	54.85	54.85	55.26	0.004698	2.83	6.61	8.09	1.00
Asta	1500	tr 500	22.07	53.91	54.95	54.95	55.40	0.004618	2.97	7.43	8.31	1.00
Asta	1450	tr 50	13.78	53.26	54.04	54.04	54.38	0.004681	2.59	5.38	8.57	0.99
Asta	1450	tr 100	16.24	53.26	54.13	54.13	54.49	0.004413	2.70	6.20	9.56	0.97
Asta	1450	tr 200	18.72	53.26	54.21	54.21	54.60	0.004149	2.78	7.09	10.65	0.96
Asta	1450	tr 500	22.07	53.26	54.32	54.32	54.74	0.003900	2.88	8.31	12.16	0.94
Asta	1400	tr 50	13.78	52.24	52.85	52.85	53.04	0.004559	2.33	9.62	26.22	0.95
Asta	1400	tr 100	16.24	52.24	52.90	52.90	53.11	0.004530	2.46	11.00	27.94	0.96
Asta	1400	tr 200	18.72	52.24	52.95	52.95	53.17	0.004477	2.56	12.39	29.53	0.97
Asta	1400	tr 500	22.07	52.24	53.01	53.01	53.25	0.004409	2.68	14.21	31.51	0.97
Asta	1350	tr 50	13.78	51.71	52.63	52.63	52.74	0.001297	1.66	13.82	30.03	0.56
Asta	1350	tr 100	16.24	51.71	52.70	52.53	52.81	0.001300	1.74	15.88	31.60	0.56
Asta	1350	tr 200	18.72	51.71	52.75	52.59	52.87	0.001380	1.86	17.47	32.76	0.59
Asta	1350	tr 500	22.07	51.71	52.80	52.65	52.94	0.001514	2.01	19.28	34.04	0.62
Asta	1300	tr 50	13.78	51.67	52.44	52.44	52.64	0.002845	2.18	9.98	28.80	0.80
Asta	1300	tr 100	16.24	51.67	52.48	52.48	52.70	0.003165	2.37	11.06	29.67	0.85
Asta	1300	tr 200	18.72	51.67	52.54	52.54	52.76	0.002967	2.41	12.98	31.64	0.83
Asta	1300	tr 500	22.07	51.67	52.67	52.60	52.85	0.002117	2.24	17.41	35.71	0.72
Asta	1250	tr 50	13.78	51.40	52.05	52.05	52.36	0.005037	2.45	5.62	9.22	1.00
Asta	1250	tr 100	16.24	51.40	52.13	52.13	52.46	0.004819	2.57	6.34	10.03	0.99
Asta	1250	tr 200	18.72	51.40	52.21	52.21	52.56	0.004505	2.65	7.18	11.69	0.98
Asta	1250	tr 500	22.07	51.40	52.30	52.30	52.68	0.004226	2.75	8.38	13.57	0.96
Asta	1200	tr 50	13.78	50.70	51.45	51.45	51.82	0.005123	2.76	5.46	7.59	1.02
Asta	1200	tr 100	16.24	50.70	51.54	51.54	51.95	0.005018	2.91	6.11	7.68	1.02
Asta	1200	tr 200	18.72	50.70	51.62	51.62	52.07	0.004910	3.05	6.75	7.76	1.02
Asta	1200	tr 500	22.07	50.70	51.73	51.73	52.22	0.004831	3.22	7.56	7.85	1.03
Asta	1150	tr 50	13.78	49.81	50.66	50.59	50.95	0.003364	2.44	6.14	8.32	0.85
Asta	1150	tr 100	16.24	49.81	50.74	50.67	51.07	0.003503	2.63	6.75	8.49	0.87
Asta	1150	tr 200	18.72	49.81	50.79	50.76	51.18	0.003757	2.84	7.25	8.62	0.92
Asta	1150	tr 500	22.07	49.81	50.88	50.86	51.33	0.003953	3.07	7.96	8.81	0.95
Asta	1100	tr 50	13.78	49.64	50.41	50.41	50.75	0.004580	2.63	5.59	8.41	0.99
Asta	1100	tr 100	16.24	49.64	50.49	50.49	50.87	0.004463	2.77	6.30	8.60	0.99
Asta	1100	tr 200	18.72	49.64	50.57	50.57	50.98	0.004359	2.89	7.00	8.78	0.99
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	49.77	49.41	49.88	0.003521	1.48	9.34	10.41	0.50
Asta	1057.457	tr 100	16.24	48.79	49.87	49.48	50.00	0.003512	1.56	10.42	10.60	0.50
Asta	1057.457	tr 200	18.72	48.79	49.97	49.55	50.11	0.003493	1.63	11.48	10.78	0.50
Asta	1057.457	tr 500	22.07	48.79	50.10	49.64	50.25	0.003458	1.72	12.86	11.01	0.51
Asta	1041.848		Bridge									
Asta	1028.632	tr 50	13.78	48.50	49.11	49.11	49.40	0.015340	2.36	5.84	10.26	1.00
Asta	1028.632	tr 100	16.24	48.50	49.18	49.18	49.49	0.014980	2.48	6.54	10.43	1.00
Asta	1028.632	tr 200	18.72	48.50	49.25	49.25	49.59	0.014522	2.58	7.25	10.58	1.00
Asta	1028.632	tr 500	22.07	48.50	49.39	49.33	49.71	0.011084	2.50	8.82	10.93	0.89
Asta	999.9999	tr 50	13.78	48.00	48.78	48.78	49.13	0.004969	2.62	5.26	7.55	1.00
Asta	999.9999	tr 100	16.24	48.00	48.86	48.86	49.25	0.004874	2.75	5.90	7.72	1.00
Asta	999.9999	tr 200	18.72	48.00	48.94	48.94	49.36	0.004726	2.85	6.56	7.89	1.00
Asta	999.9999	tr 500	22.07	48.00	49.05	49.05	49.50	0.004607	2.98	7.39	8.10	1.00
Asta	950.0001	tr 50	13.78	47.50	48.28	48.28	48.63	0.004932	2.61	5.27	7.55	1.00
Asta	950.0001	tr 100	16.24	47.50	48.36	48.36	48.75	0.004799	2.74	5.93	7.73	1.00
Asta	950.0001	tr 200	18.72	47.50	48.44	48.44	48.86	0.004734	2.86	6.56	7.89	1.00
Asta	950.0001	tr 500	22.07	47.50	48.55	48.55	49.00	0.004624	2.99	7.38	8.10	1.00
Asta	899.9999	tr 50	13.78	47.00	47.78	47.78	48.13	0.004947	2.62	5.26	7.55	1.00
Asta	899.9999	tr 100	16.24	47.00	47.86	47.86	48.25	0.004729	2.74	5.95	8.38	0.99
Asta	899.9999	tr 200	18.72	47.00	47.95	47.95	48.36	0.004457	2.83	6.73	9.25	0.98
Asta	899.9999	tr 500	22.07	47.00	48.09	48.06	48.50	0.003786	2.84	8.11	10.65	0.92
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

HEC-RAS Plan: (Continued)

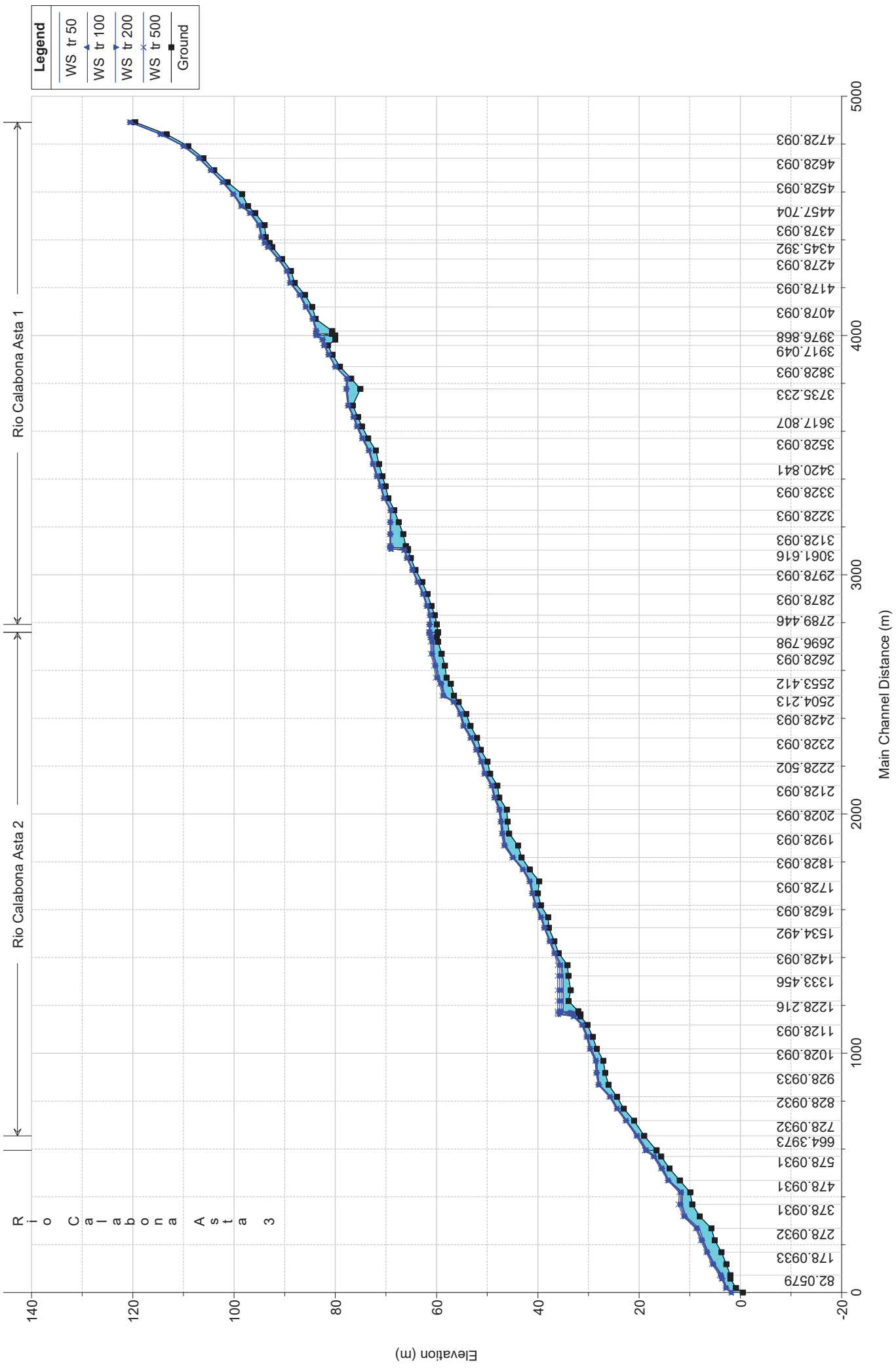
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta	874.4871	tr 100	16.24	46.80	47.94	47.50	48.06	0.003122	1.50	10.79	10.44	0.47
Asta	874.4871	tr 200	18.72	46.80	48.05	47.57	48.18	0.003043	1.56	11.97	10.63	0.47
Asta	874.4871	tr 500	22.07	46.80	48.20	47.66	48.33	0.002913	1.63	13.52	11.26	0.47
Asta	858.4899	Bridge										
Asta	825.8108	tr 50	23.86	46.50	47.40	47.40	47.82	0.010713	2.85	8.36	10.05	1.00
Asta	825.8108	tr 100	28.21	46.50	47.51	47.51	47.96	0.010309	2.99	9.42	10.23	1.00
Asta	825.8108	tr 200	32.61	46.50	47.60	47.60	48.10	0.010093	3.13	10.42	10.40	1.00
Asta	825.8108	tr 500	38.49	46.50	47.72	47.72	48.28	0.009846	3.29	11.69	10.61	1.00
Asta	792.9191	tr 50	23.86	45.00	46.22	46.22	46.72	0.004612	3.16	7.56	7.43	1.00
Asta	792.9191	tr 100	28.21	45.00	46.35	46.35	46.90	0.004545	3.30	8.54	7.69	1.00
Asta	792.9191	tr 200	32.61	45.00	46.47	46.47	47.07	0.004463	3.43	9.52	7.94	1.00
Asta	792.9191	tr 500	38.49	45.00	46.63	46.63	47.28	0.004377	3.57	10.77	8.25	1.00
Asta	750	tr 50	23.86	43.50	44.72	44.72	45.22	0.004614	3.16	7.56	7.43	1.00
Asta	750	tr 100	28.21	43.50	44.85	44.85	45.40	0.004543	3.30	8.54	7.69	1.00
Asta	750	tr 200	32.61	43.50	44.97	44.97	45.57	0.004471	3.43	9.51	7.94	1.00
Asta	750	tr 500	38.49	43.50	45.12	45.12	45.78	0.004390	3.58	10.76	8.25	1.00
Asta	699.9999	tr 50	23.86	42.00	43.21	43.21	43.72	0.004633	3.16	7.55	7.43	1.00
Asta	699.9999	tr 100	28.21	42.00	43.35	43.35	43.90	0.004526	3.30	8.55	7.70	1.00
Asta	699.9999	tr 200	32.61	42.00	43.47	43.47	44.07	0.004473	3.43	9.51	7.94	1.00
Asta	699.9999	tr 500	38.49	42.00	43.62	43.62	44.28	0.004403	3.58	10.75	8.25	1.00
Asta	667.4977	tr 50	23.86	41.50	42.72	42.72	43.22	0.004622	3.16	7.56	7.43	1.00
Asta	667.4977	tr 100	28.21	41.50	42.85	42.85	43.40	0.004547	3.30	8.54	7.69	1.00
Asta	667.4977	tr 200	32.61	41.50	42.97	42.97	43.57	0.004498	3.44	9.49	7.93	1.00
Asta	667.4977	tr 500	38.49	41.50	43.13	43.13	43.78	0.004363	3.57	10.79	8.26	1.00
Asta	629.2197	tr 50	23.86	39.86	41.04	40.61	41.18	0.003338	1.66	14.39	12.74	0.50
Asta	629.2197	tr 100	28.21	39.86	41.19	40.69	41.34	0.003161	1.73	16.32	12.87	0.49
Asta	629.2197	tr 200	32.61	39.86	41.33	40.77	41.50	0.003031	1.79	18.18	13.00	0.48
Asta	629.2197	tr 500	38.49	39.86	41.51	40.88	41.69	0.002907	1.87	20.55	13.16	0.48
Asta	611.8381	Bridge										
Asta	600.9209	tr 50	25.66	39.50	40.92	40.31	41.03	0.002152	1.47	17.46	13.86	0.42
Asta	600.9209	tr 100	30.43	39.50	41.07	40.41	41.20	0.002148	1.55	19.58	14.19	0.42
Asta	600.9209	tr 200	35.25	39.50	41.22	40.50	41.35	0.002146	1.63	21.63	14.51	0.43
Asta	600.9209	tr 500	41.69	39.50	41.39	40.61	41.54	0.002143	1.72	24.25	14.90	0.43
Asta	552.3627	tr 50	25.66	39.40	40.52	40.41	40.88	0.003197	2.65	9.69	9.75	0.85
Asta	552.3627	tr 100	30.43	39.40	40.64	40.53	41.04	0.003195	2.80	10.87	9.99	0.86
Asta	552.3627	tr 200	35.25	39.40	40.75	40.64	41.19	0.003209	2.94	11.99	10.21	0.87
Asta	552.3627	tr 500	41.69	39.40	40.89	40.77	41.38	0.003210	3.10	13.44	10.49	0.88
Asta	523.929	tr 50	25.66	39.30	40.31	40.31	40.76	0.004530	2.98	8.62	9.53	1.00
Asta	523.929	tr 100	30.43	39.30	40.43	40.43	40.93	0.004445	3.13	9.72	9.75	1.00
Asta	523.929	tr 200	35.25	39.30	40.54	40.54	41.08	0.004339	3.26	10.82	9.98	1.00
Asta	523.929	tr 500	41.69	39.30	40.68	40.68	41.27	0.004252	3.41	12.21	10.25	1.00
Asta	496.7194	tr 50	25.66	39.20	40.30	39.87	40.41	0.002851	1.50	17.15	16.75	0.47
Asta	496.7194	tr 100	30.43	39.20	40.41	39.95	40.54	0.002878	1.60	19.08	16.99	0.48
Asta	496.7194	tr 200	35.25	39.20	40.53	40.03	40.67	0.002841	1.67	21.08	17.23	0.48
Asta	496.7194	tr 500	41.69	39.20	40.66	40.12	40.82	0.002895	1.78	23.37	17.50	0.49
Asta	483.6925	Bridge										
Asta	459.7868	tr 50	25.66	38.90	40.18	39.57	40.26	0.001703	1.27	20.26	17.18	0.37
Asta	459.7868	tr 100	30.43	38.90	40.28	39.65	40.38	0.001863	1.38	21.99	17.39	0.39
Asta	459.7868	tr 200	35.25	38.90	40.39	39.73	40.50	0.001949	1.48	23.85	17.62	0.41
Asta	459.7868	tr 500	41.69	38.90	40.49	39.82	40.63	0.002148	1.62	25.79	17.85	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	0.003199	2.78	11.06	17.31	0.99
Asta	431.9053	tr 200	35.25	38.50	39.99	39.99	40.40	0.003223	2.84	12.93	20.00	0.96
Asta	431.9053	tr 500	41.69	38.50	40.14	40.14	40.53	0.002917	2.82	16.74	27.28	0.88
Asta	398.3658	tr 50	25.66	38.00	39.15	39.15	39.65	0.004548	3.12	8.23	8.30	1.00
Asta	398.3658	tr 100	30.43	38.00	39.28	39.28	39.82	0.004450	3.27	9.32	8.56	1.00
Asta	398.3658	tr 200	35.25	38.00	39.40	39.40	39.99	0.004373	3.40	10.38	8.80	1.00
Asta	398.3658	tr 500	41.69	38.00	39.55	39.55	40.20	0.004307	3.56	11.72	9.10	1.00
Asta	350	tr 50	25.66	37.50	38.65	38.65	39.15	0.004543	3.12	8.23	8.30	1.00
Asta	350	tr 100	30.43	37.50	38.78	38.78	39.32	0.004442	3.26	9.32	8.56	1.00
Asta	350	tr 200	35.25	37.50	38.90	38.90	39.49	0.004379	3.40	10.37	8.80	1.00
Asta	350	tr 500	41.69	37.50	39.05	39.05	39.70	0.004306	3.56	11.72	9.10	1.00
Asta	300	tr 50	25.66	37.00	38.15	38.15	38.65	0.004546	3.12	8.23	8.30	1.00
Asta	300	tr 100	30.43	37.00	38.28	38.28	38.82	0.004445	3.26	9.32	8.56	1.00
Asta	300	tr 200	35.25	37.00	38.40	38.40	38.99	0.004376	3.40	10.37	8.80	1.00

HEC-RAS Plan: (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	38.55	38.55	39.20	0.004287	3.55	11.74	9.11	1.00
Asta	250	tr 50	25.66	36.50	37.65	37.65	38.15	0.004562	3.12	8.22	8.30	1.00
Asta	250	tr 100	30.43	36.50	37.78	37.78	38.32	0.004455	3.27	9.32	8.56	1.00
Asta	250	tr 200	35.25	36.50	37.90	37.90	38.49	0.004371	3.40	10.38	8.80	1.00
Asta	250	tr 500	41.69	36.50	38.05	38.05	38.70	0.004301	3.55	11.73	9.11	1.00
Asta	215.693	tr 50	25.66	36.00	37.15	37.15	37.65	0.004538	3.12	8.24	8.30	1.00
Asta	215.693	tr 100	30.43	36.00	37.28	37.28	37.82	0.004465	3.27	9.31	8.56	1.00
Asta	215.693	tr 200	35.25	36.00	37.40	37.40	37.99	0.004383	3.40	10.37	8.80	1.00
Asta	215.693	tr 500	41.69	36.00	37.55	37.55	38.20	0.004311	3.56	11.72	9.10	1.00
Asta	185.4014	tr 50	25.66	35.60	37.02	36.55	37.23	0.004421	2.01	12.74	9.15	0.55
Asta	185.4014	tr 100	30.43	35.60	37.17	36.66	37.41	0.004522	2.15	14.16	9.19	0.55
Asta	185.4014	tr 200	35.25	35.60	37.32	36.77	37.59	0.004609	2.27	15.53	9.23	0.56
Asta	185.4014	tr 500	41.69	35.60	37.51	36.91	37.81	0.004710	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	0.014863	2.99	8.58	9.38	1.00
Asta	152.8832	tr 100	30.43	35.00	36.06	36.06	36.56	0.014624	3.16	9.63	9.44	1.00
Asta	152.8832	tr 200	35.25	35.00	36.16	36.16	36.72	0.014471	3.31	10.64	9.51	1.00
Asta	152.8832	tr 500	41.69	35.00	36.30	36.30	36.92	0.014269	3.49	11.93	9.59	1.00
Asta	100	tr 50	25.66	28.00	29.30	29.30	29.85	0.004730	3.30	7.78	7.01	1.00
Asta	100	tr 100	30.43	28.00	29.44	29.44	30.05	0.004658	3.45	8.81	7.24	1.00
Asta	100	tr 200	35.25	28.00	29.58	29.58	30.23	0.004601	3.59	9.81	7.45	1.00
Asta	100	tr 500	41.69	28.00	29.75	29.75	30.47	0.004524	3.75	11.11	7.72	1.00
Asta	50.87643	tr 50	25.66	20.00	21.29	21.29	21.85	0.004738	3.30	7.77	7.01	1.00
Asta	50.87643	tr 100	30.43	20.00	21.44	21.44	22.05	0.004639	3.45	8.82	7.24	1.00
Asta	50.87643	tr 200	35.25	20.00	21.58	21.58	22.23	0.004592	3.59	9.81	7.45	1.00
Asta	50.87643	tr 500	41.69	20.00	21.75	21.75	22.47	0.004531	3.75	11.10	7.72	1.00

calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

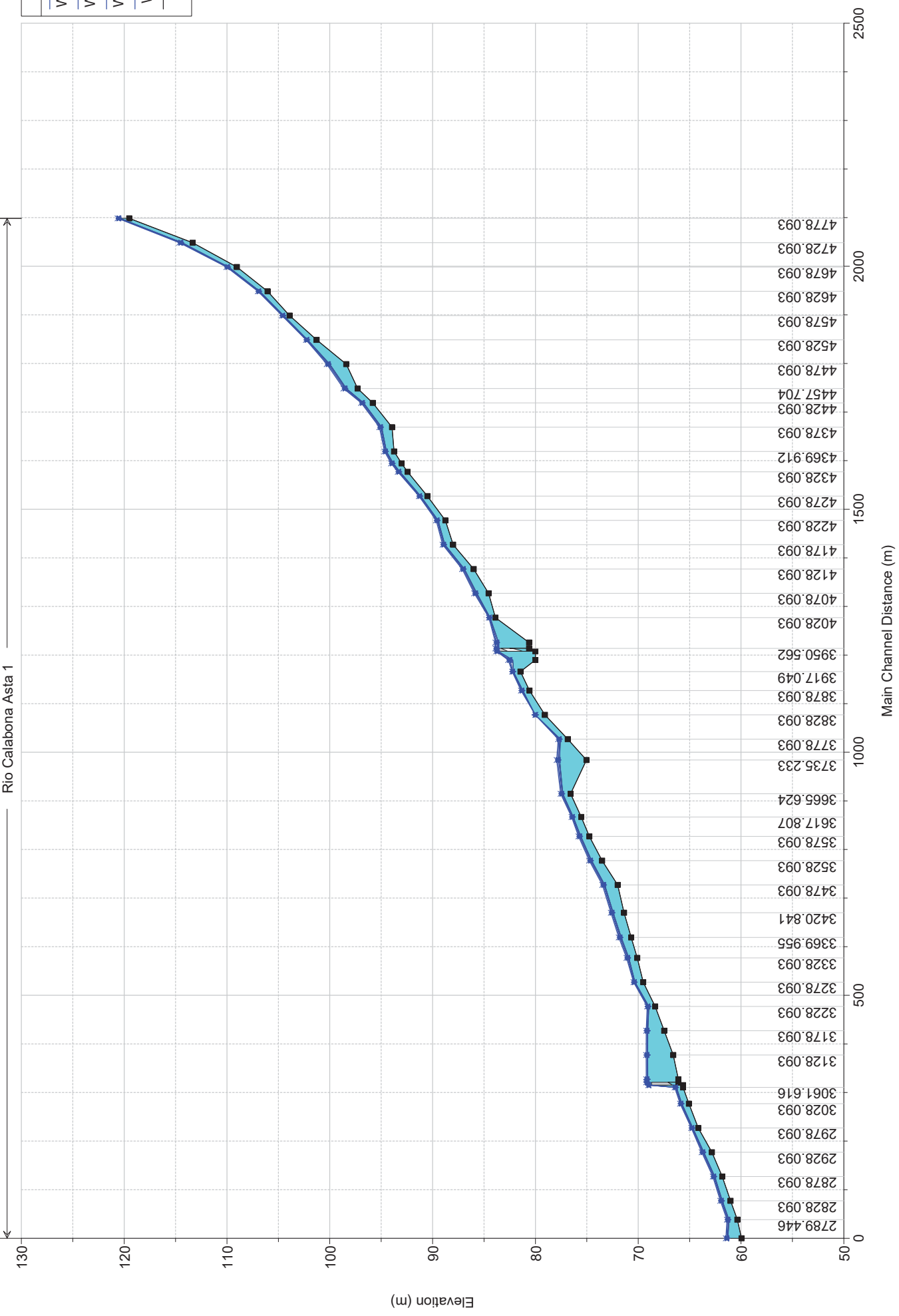


calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Calabona Asta 1

Legend	
WS tr 500	x
WS tr 200	▲
WS tr 100	▼
WS tr 50	■
Ground	■

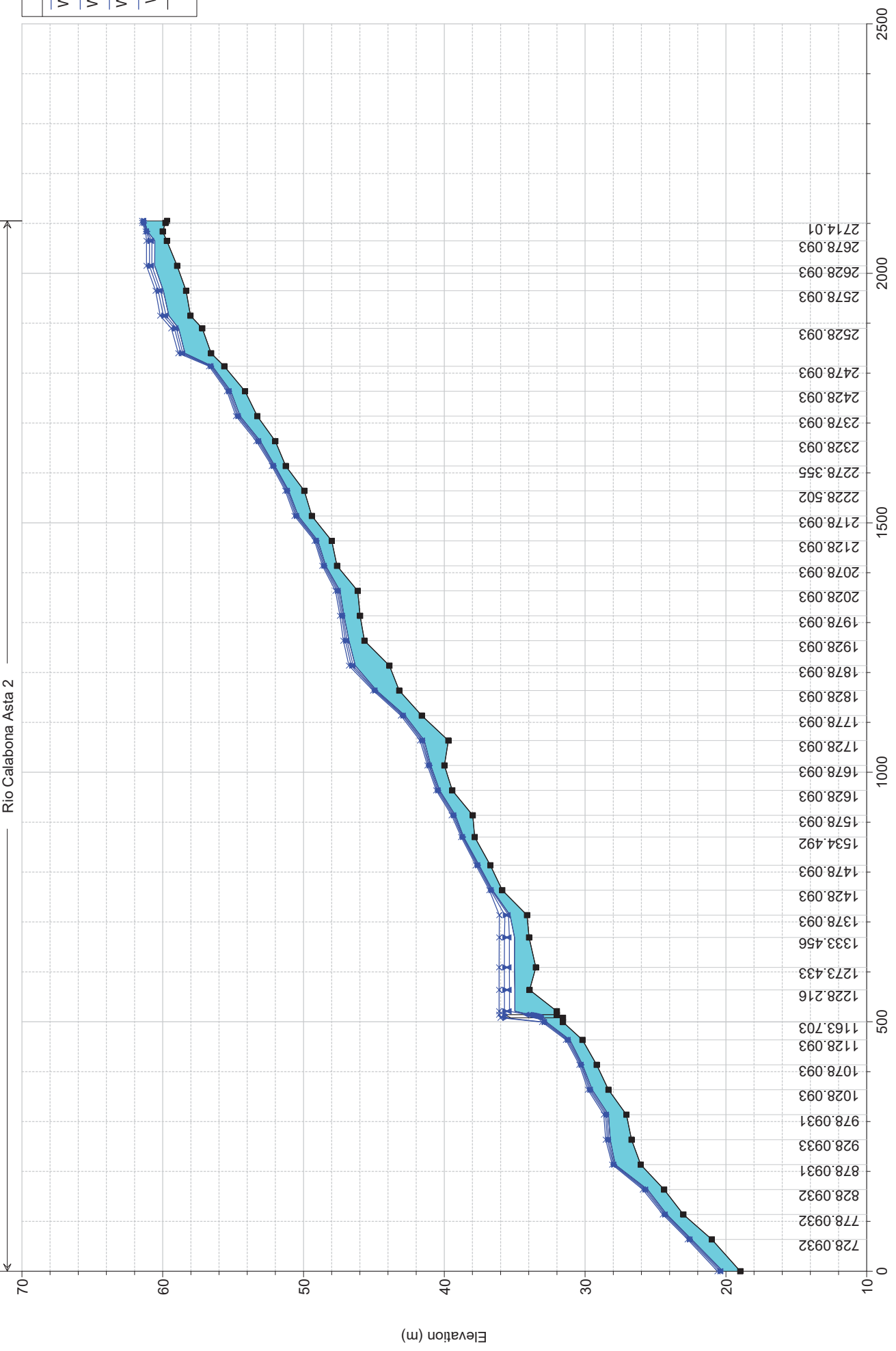


calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

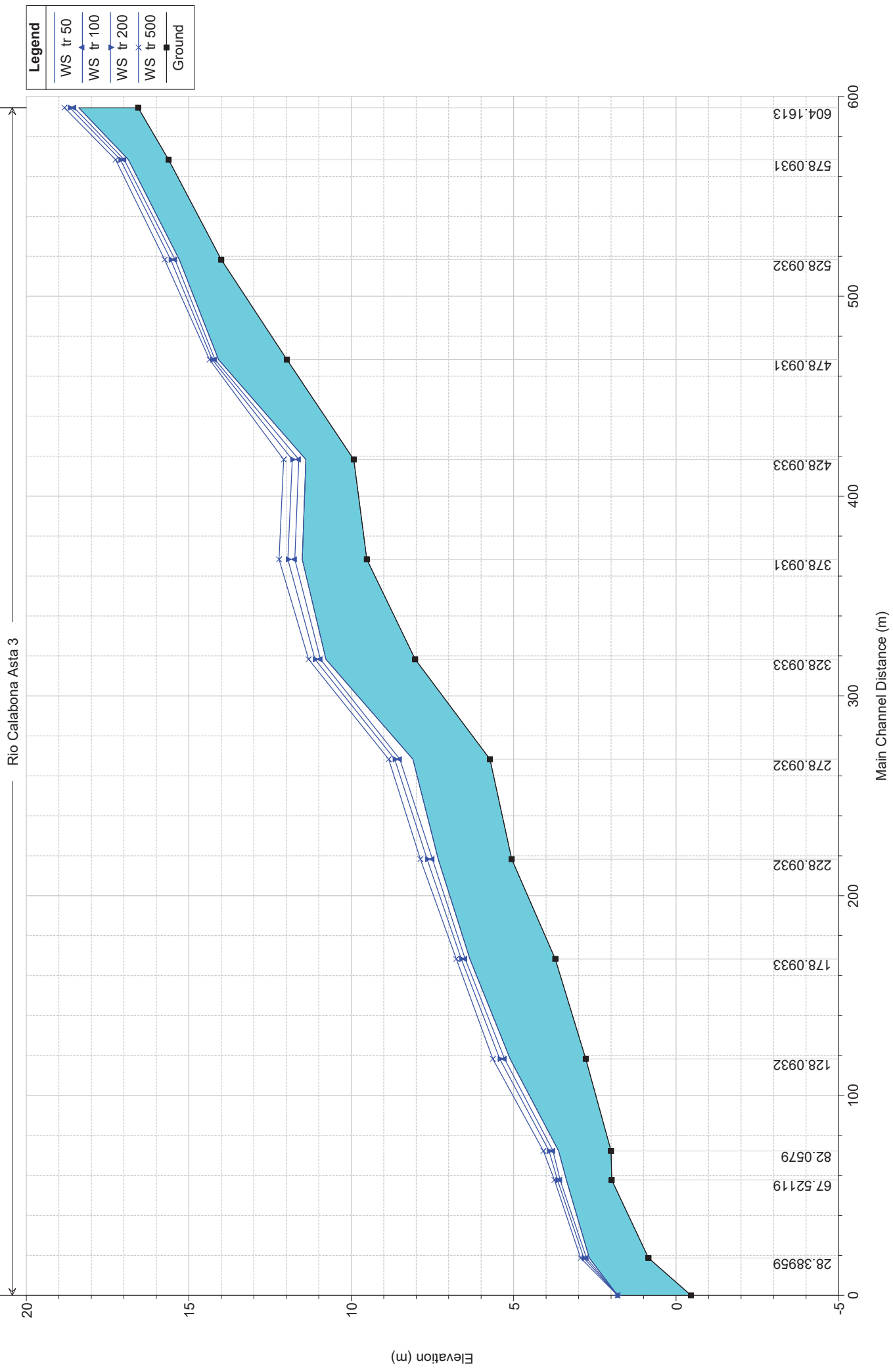
Rio Calabona Asta 2

Legend	
WS tr 500	x
WS tr 200	▲
WS tr 100	▼
WS tr 50	■
Ground	■



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

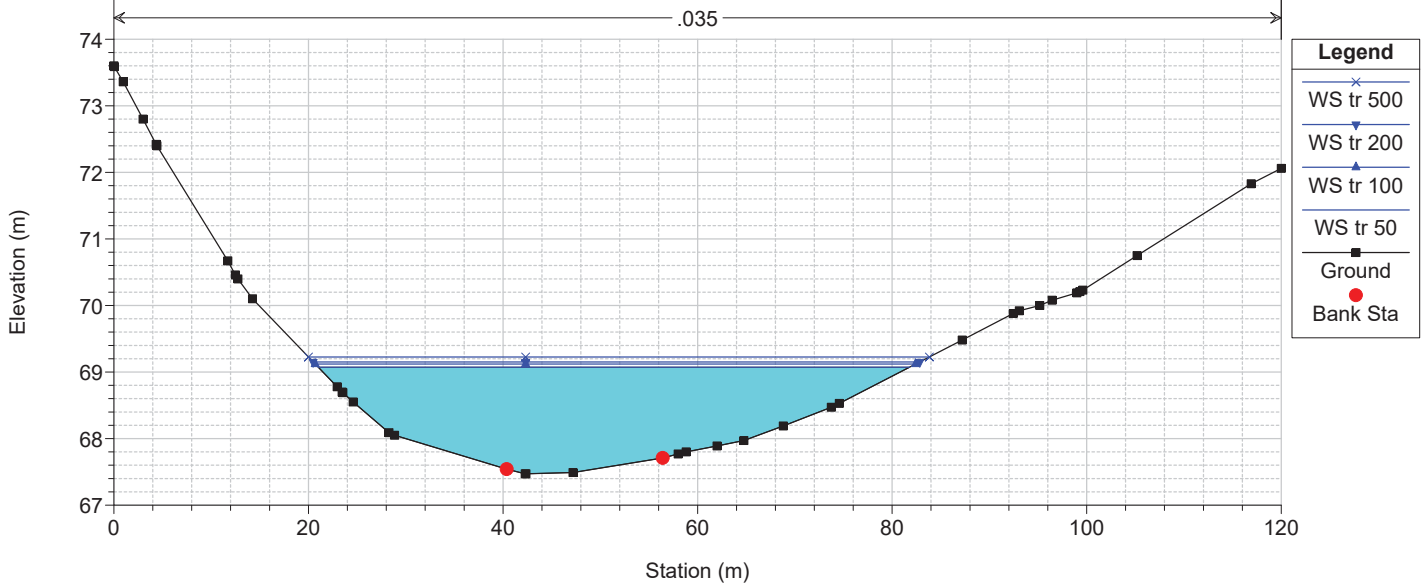


Legend	
WS tr 50	▲
WS tr 100	■
WS tr 200	×
WS tr 500	*
Ground	■

calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

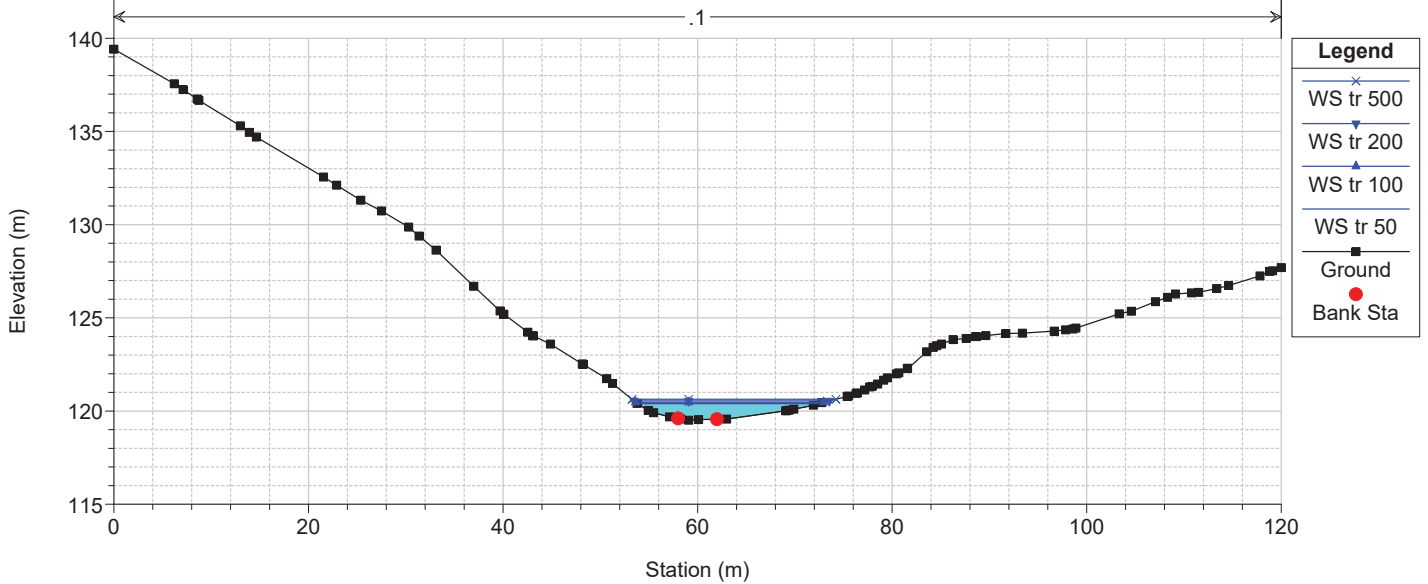
River = Rio Calabona Reach = Asta 1 RS = 3178.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

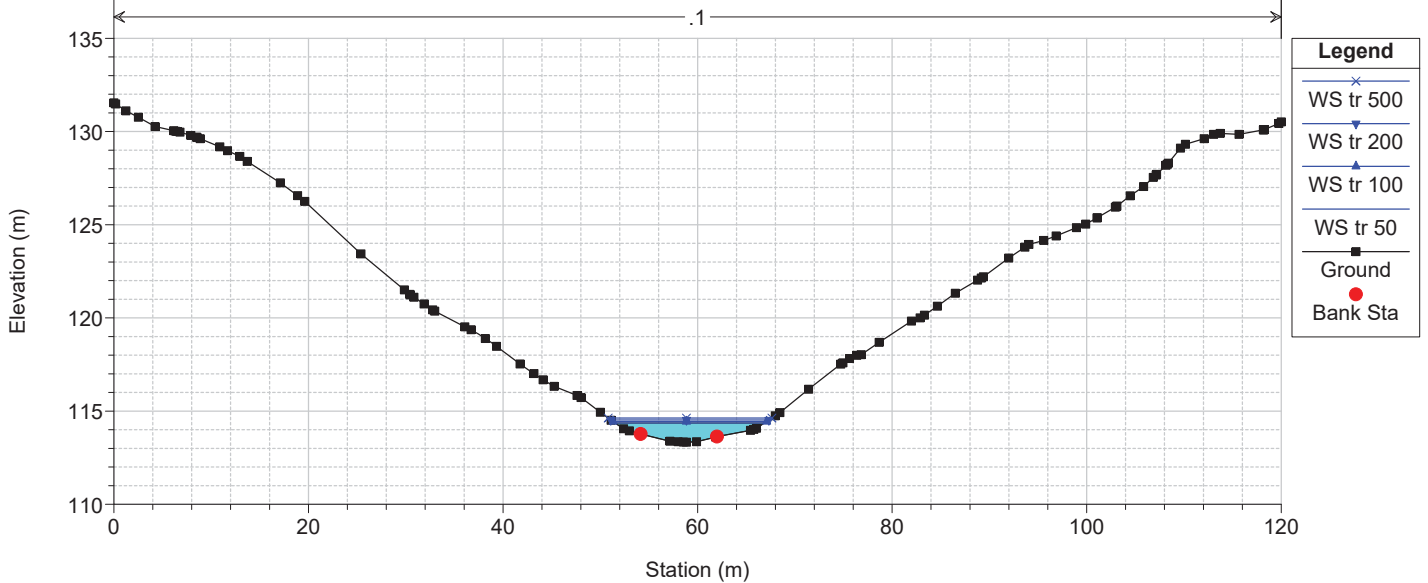
River = Rio Calabona Reach = Asta 1 RS = 4778.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

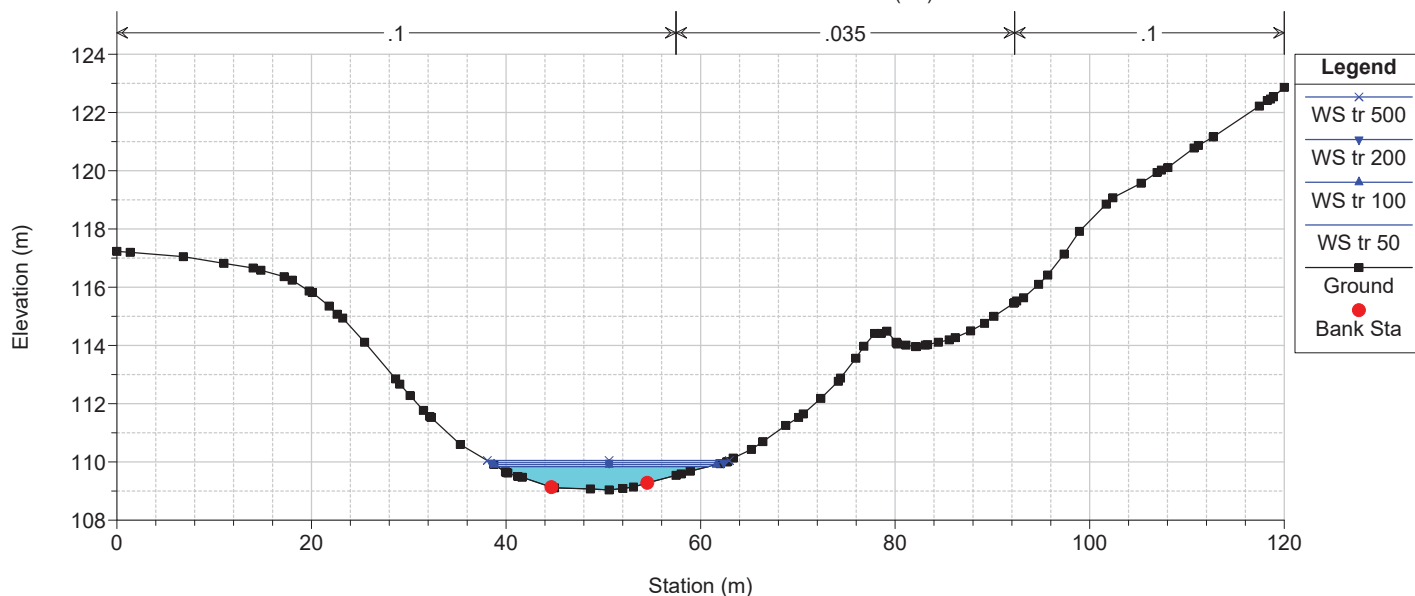
River = Rio Calabona Reach = Asta 1 RS = 4728.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

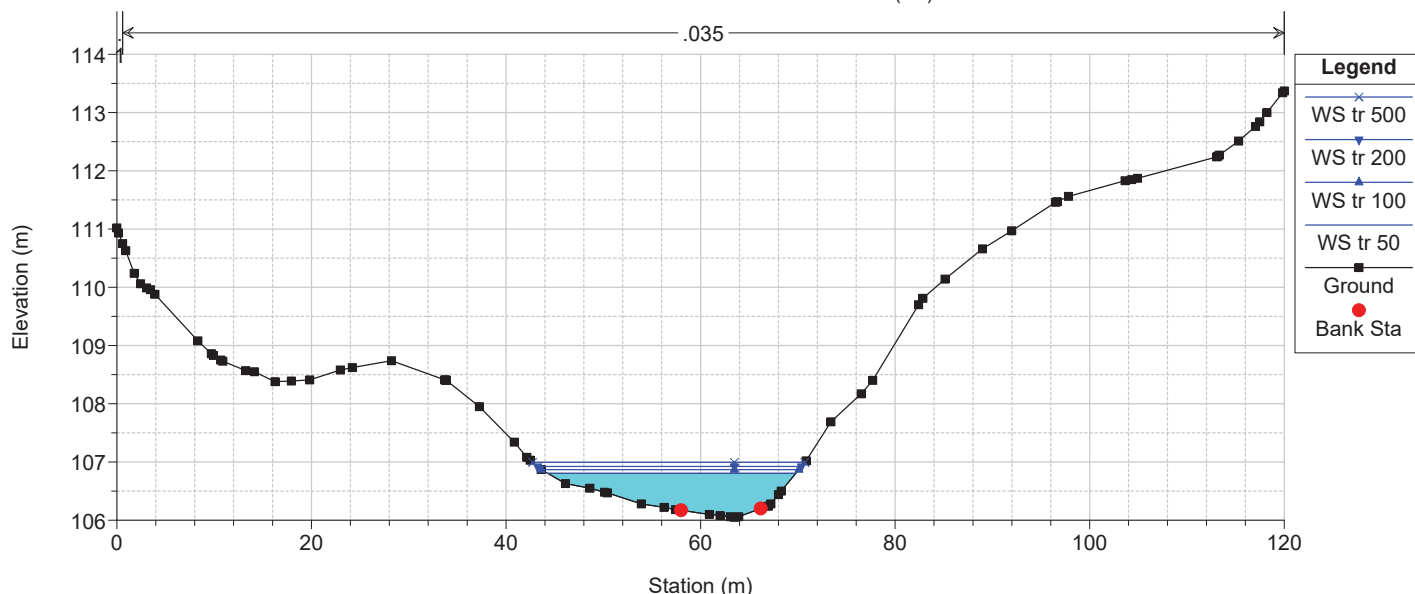
River = Rio Calabona Reach = Asta 1 RS = 4678.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

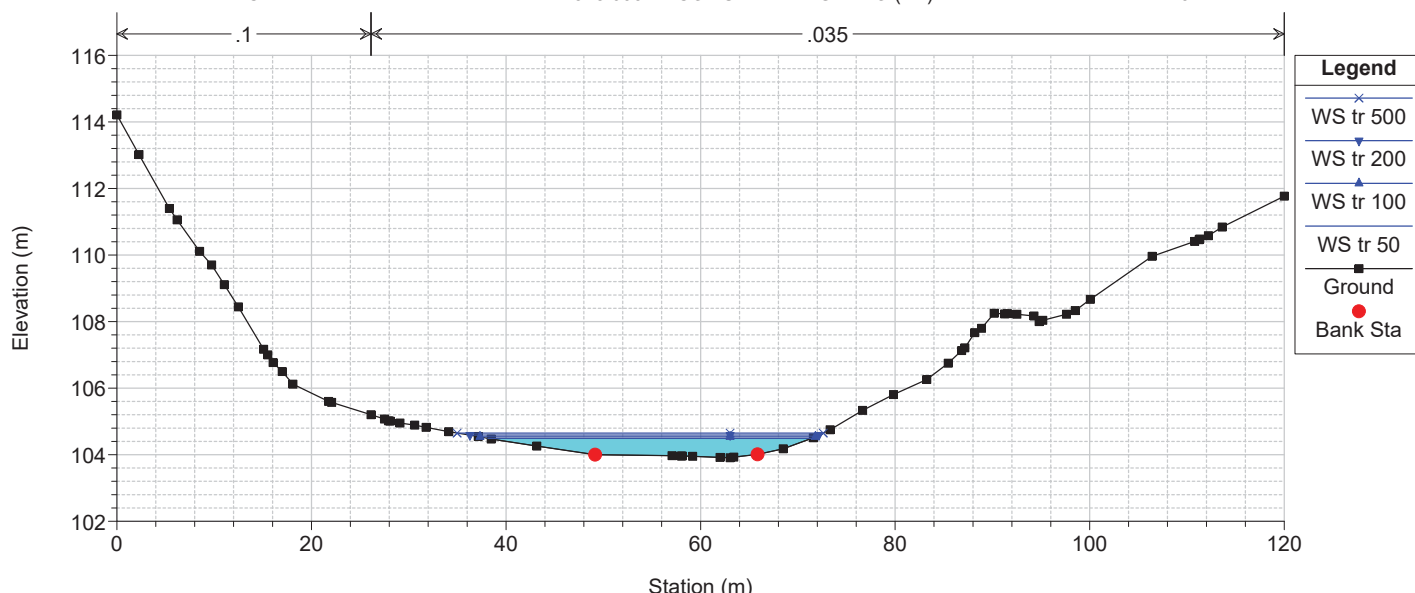
River = Rio Calabona Reach = Asta 1 RS = 4628.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

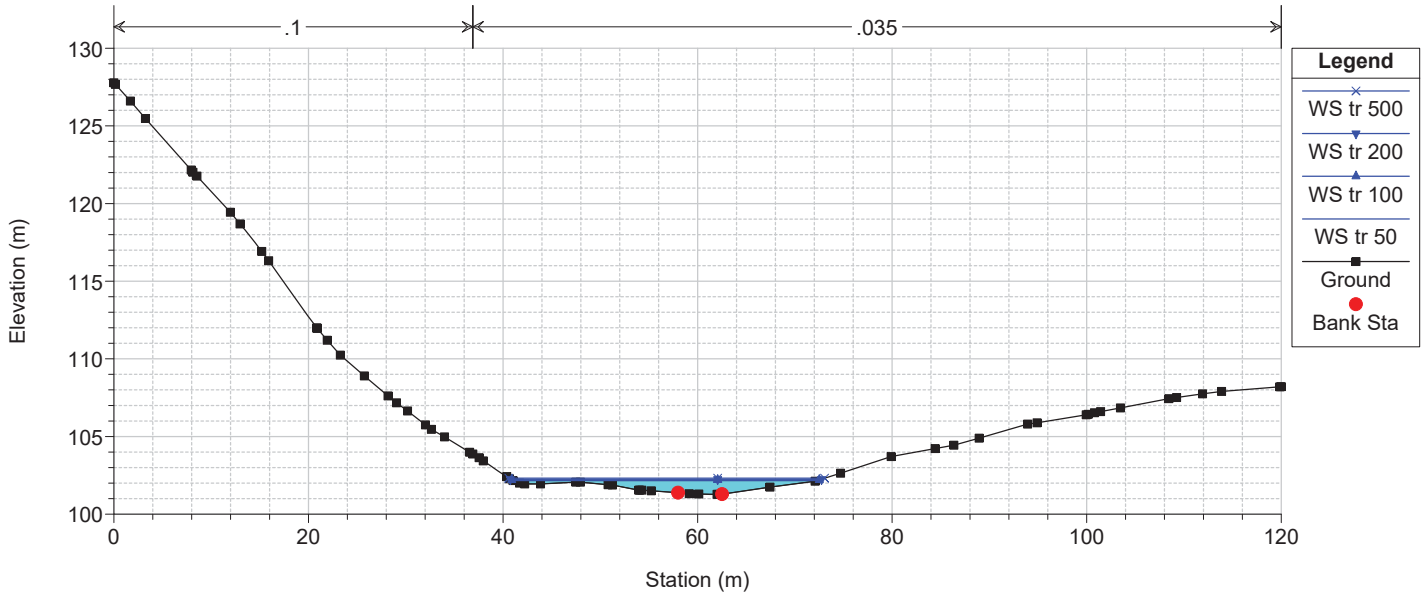
River = Rio Calabona Reach = Asta 1 RS = 4578.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

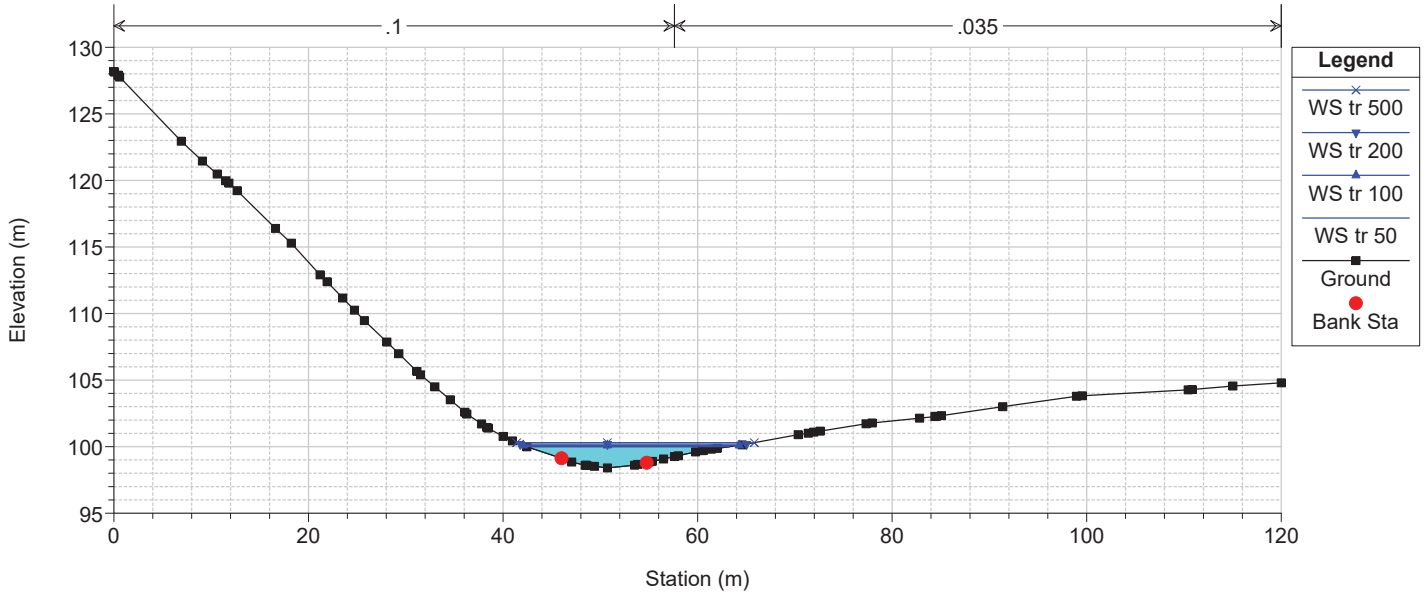
River = Rio Calabona Reach = Asta 1 RS = 4528.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

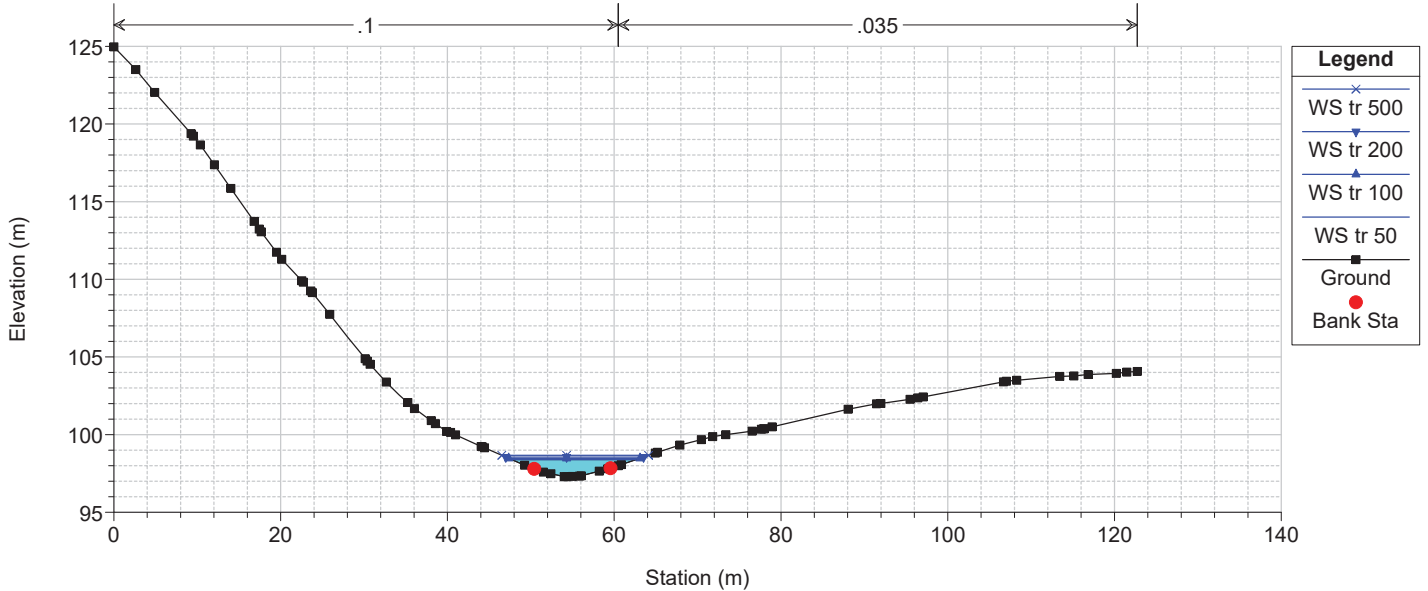
River = Rio Calabona Reach = Asta 1 RS = 4478.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

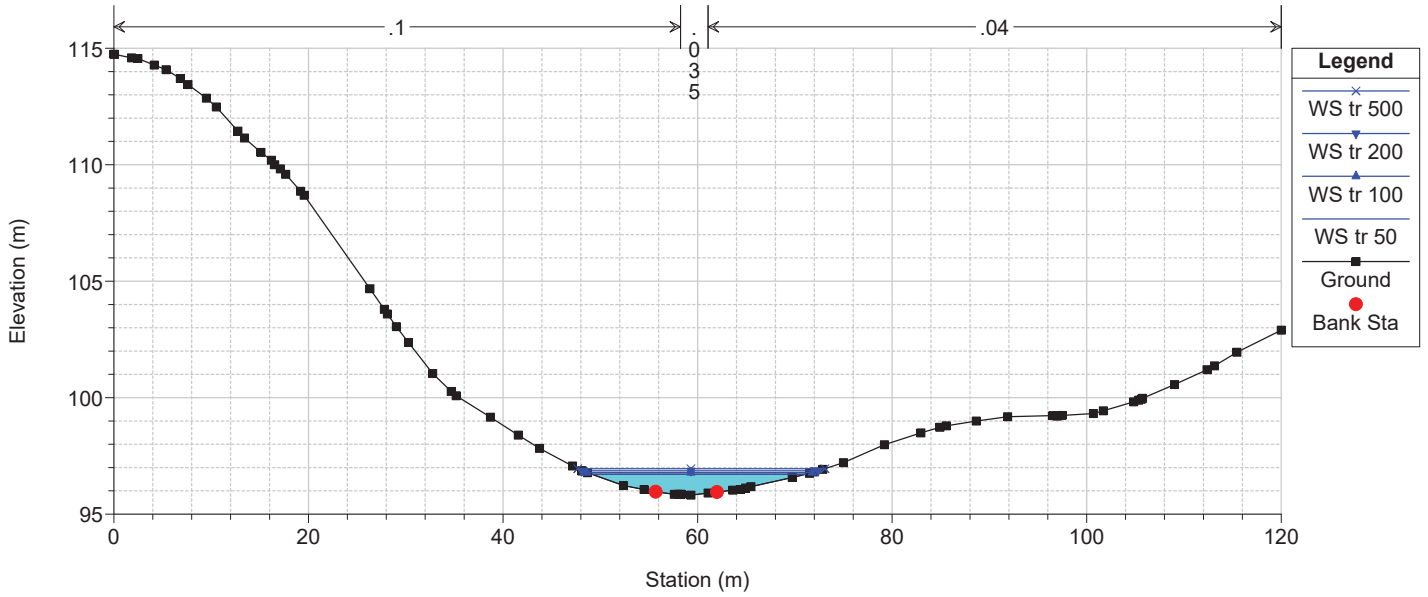
River = Rio Calabona Reach = Asta 1 RS = 4457.704 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

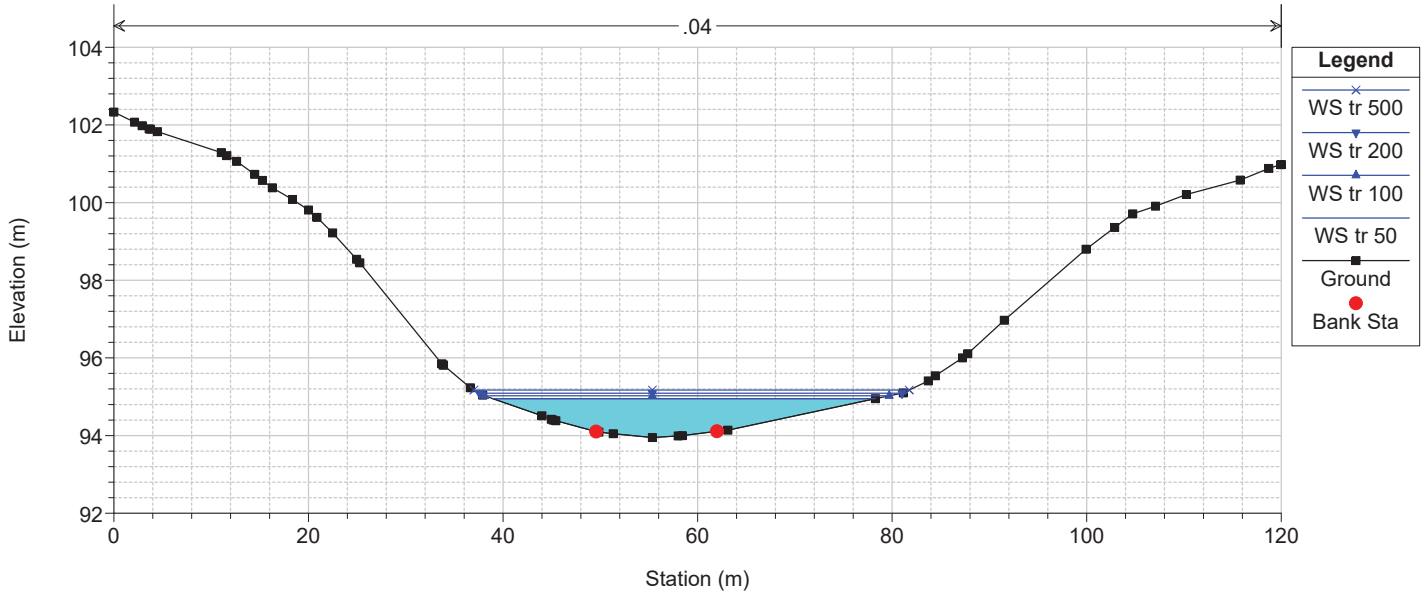
River = Rio Calabona Reach = Asta 1 RS = 4428.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

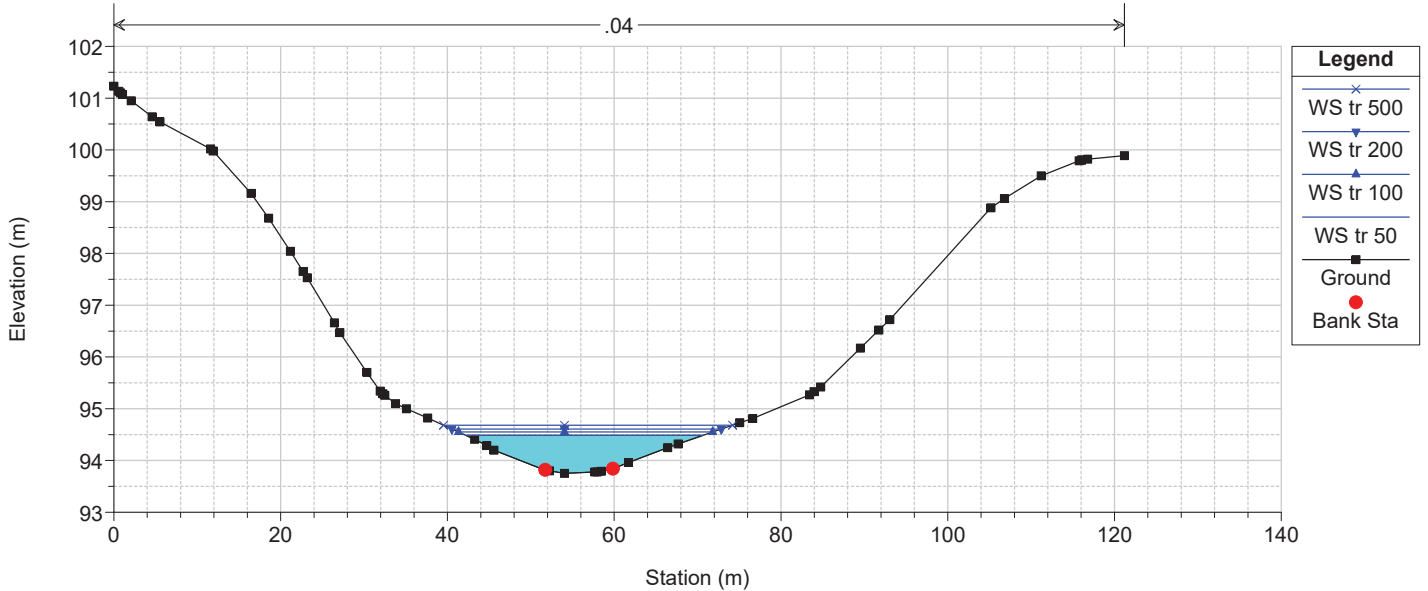
River = Rio Calabona Reach = Asta 1 RS = 4378.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

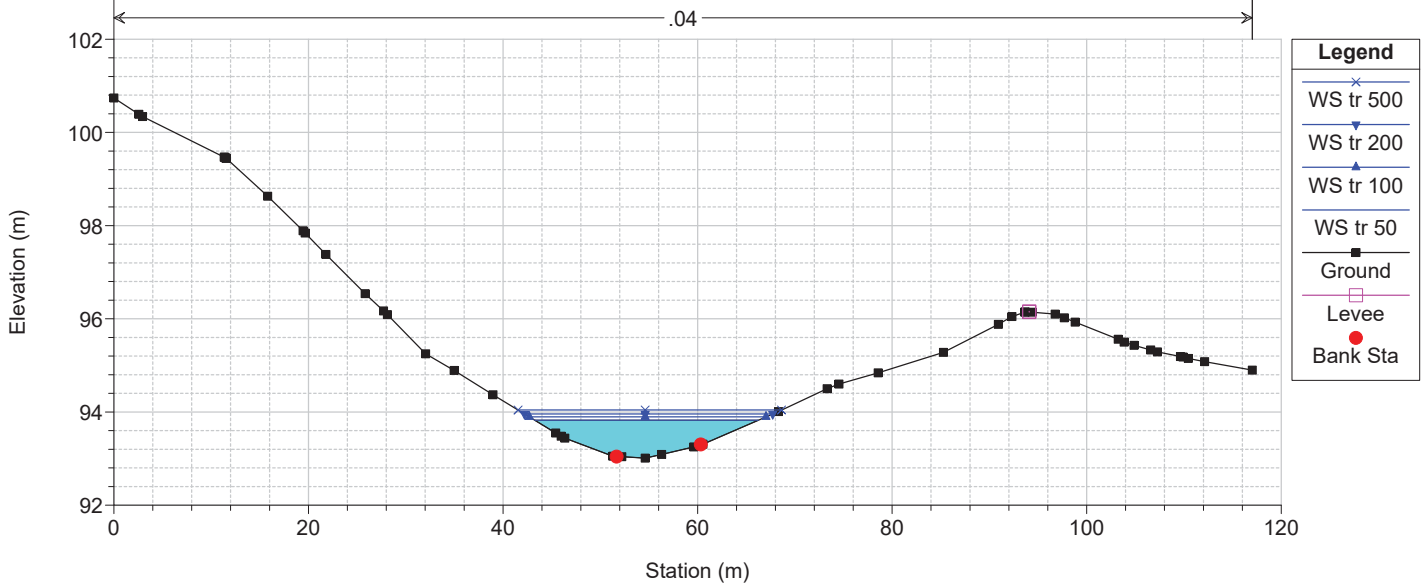
River = Rio Calabona Reach = Asta 1 RS = 4369.912 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

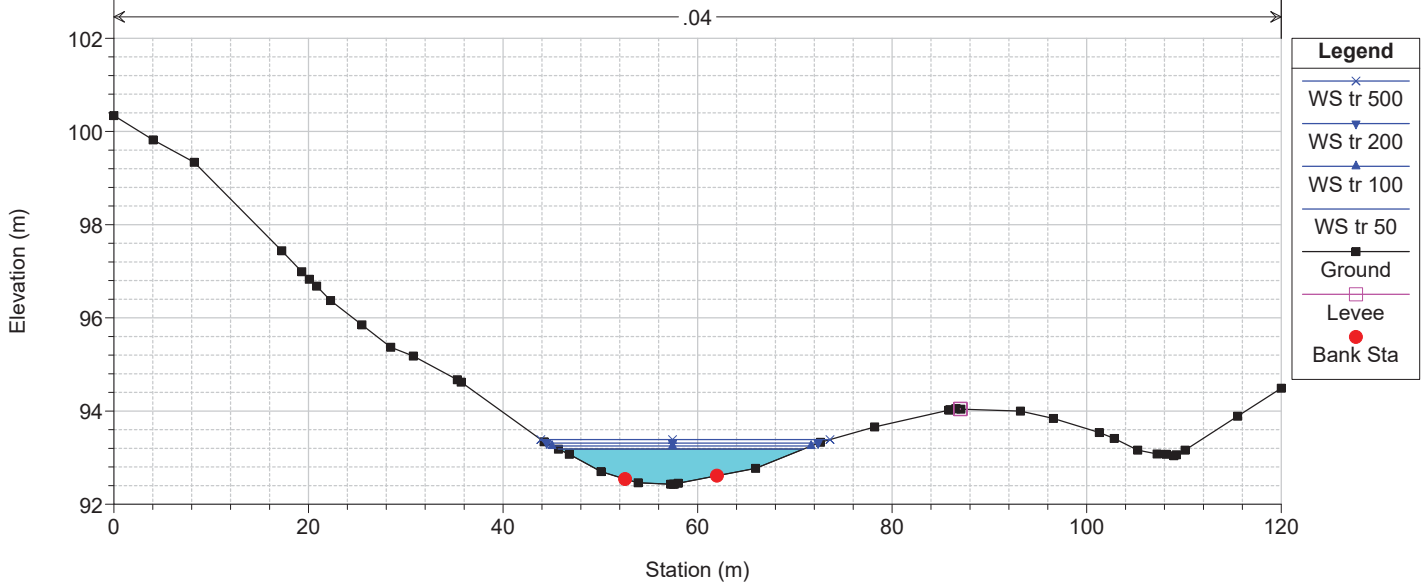
River = Rio Calabona Reach = Asta 1 RS = 4345.392 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

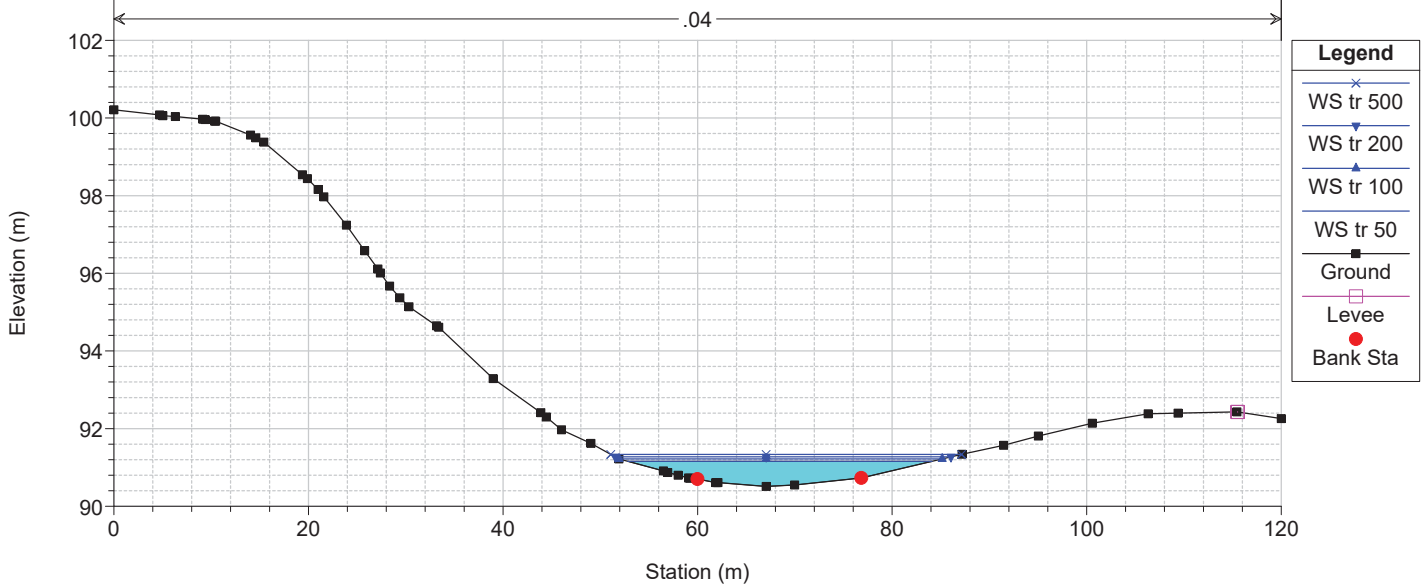
River = Rio Calabona Reach = Asta 1 RS = 4328.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

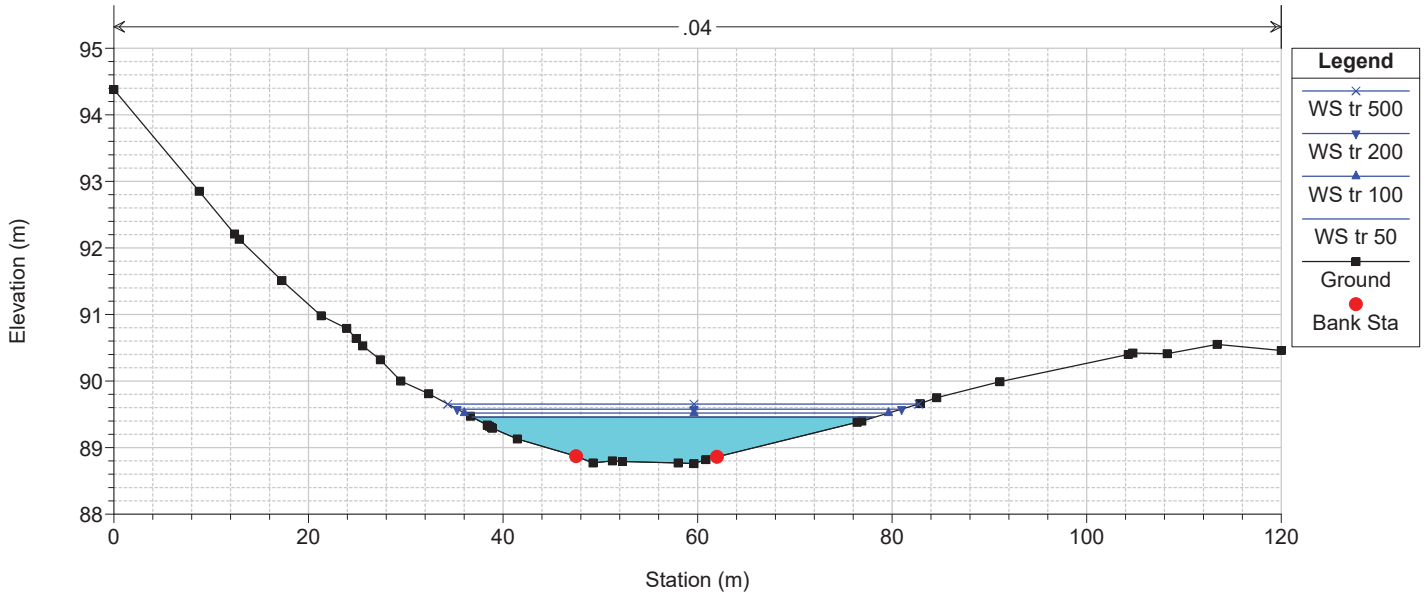
River = Rio Calabona Reach = Asta 1 RS = 4278.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

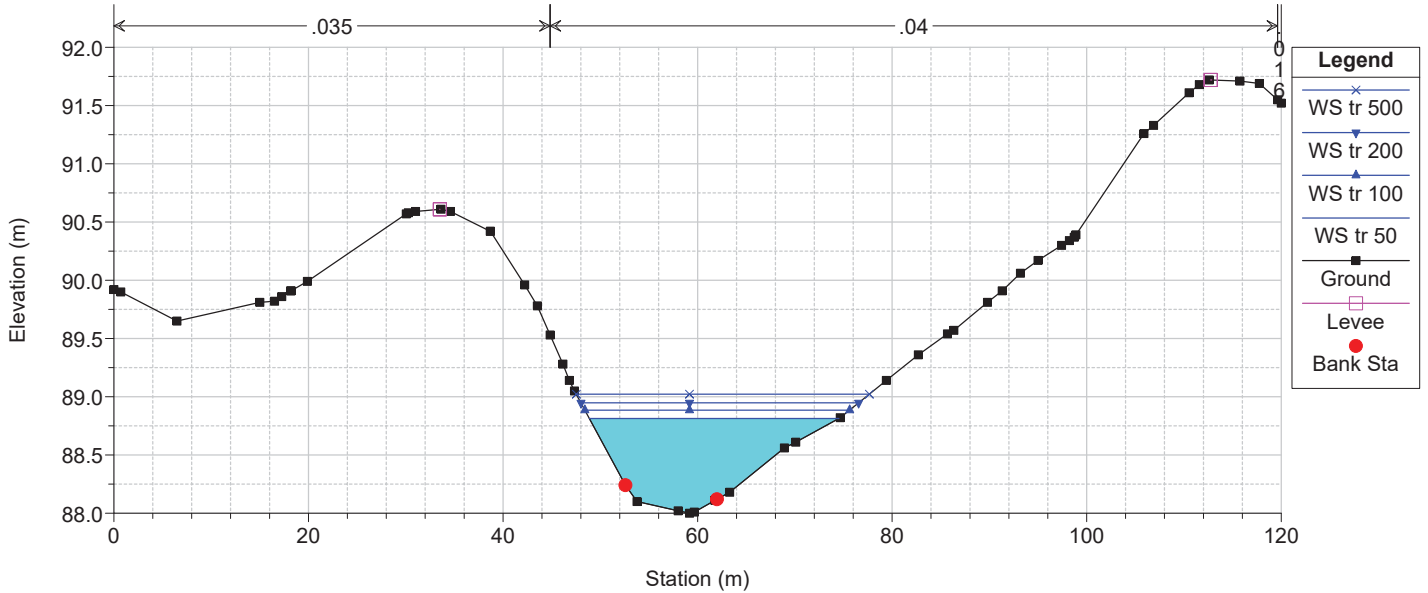
River = Rio Calabona Reach = Asta 1 RS = 4228.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

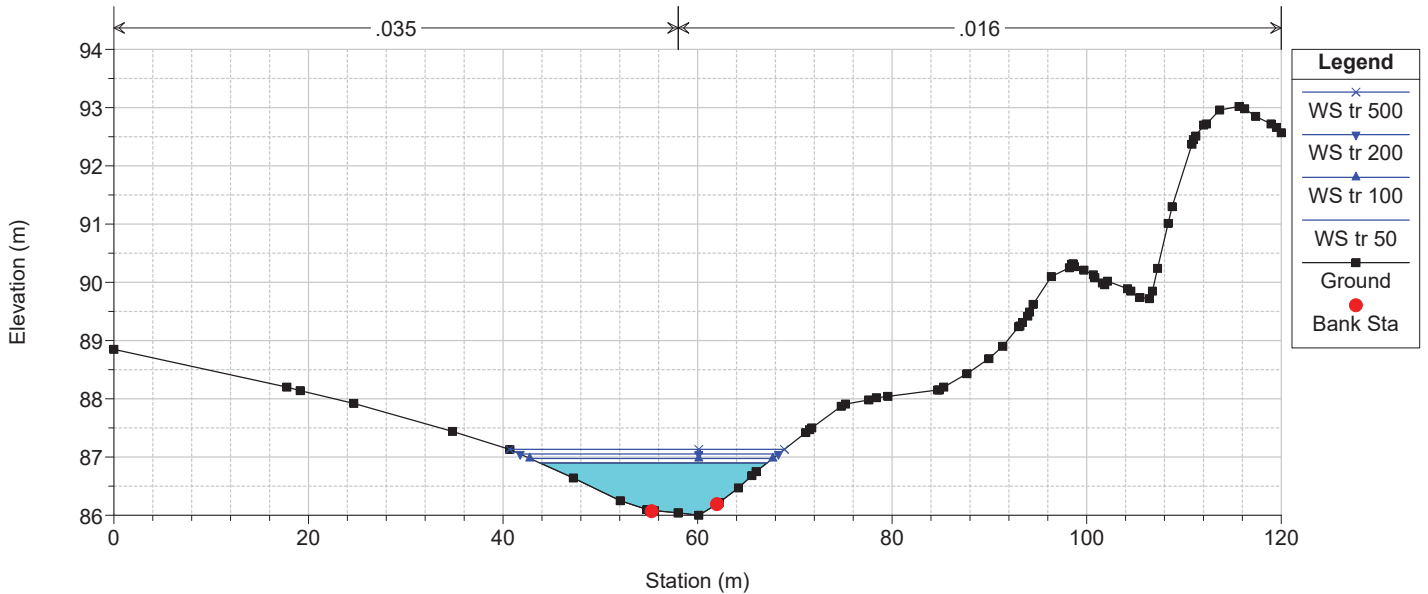
River = Rio Calabona Reach = Asta 1 RS = 4178.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

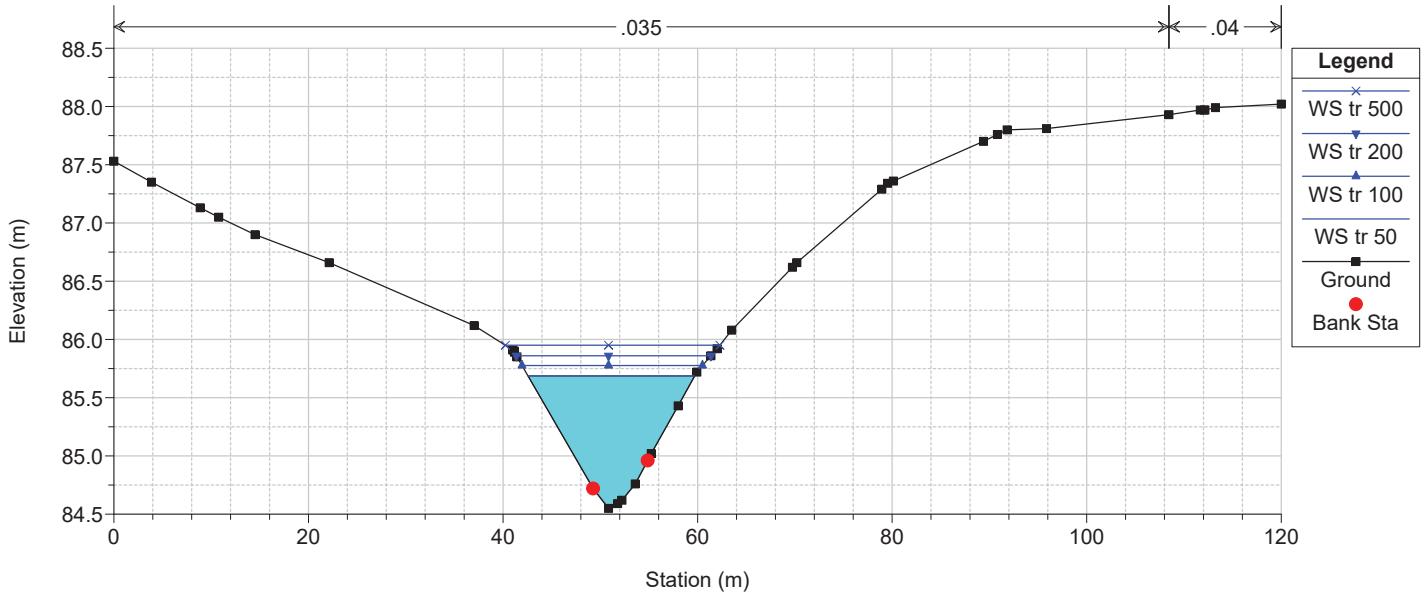
River = Rio Calabona Reach = Asta 1 RS = 4128.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

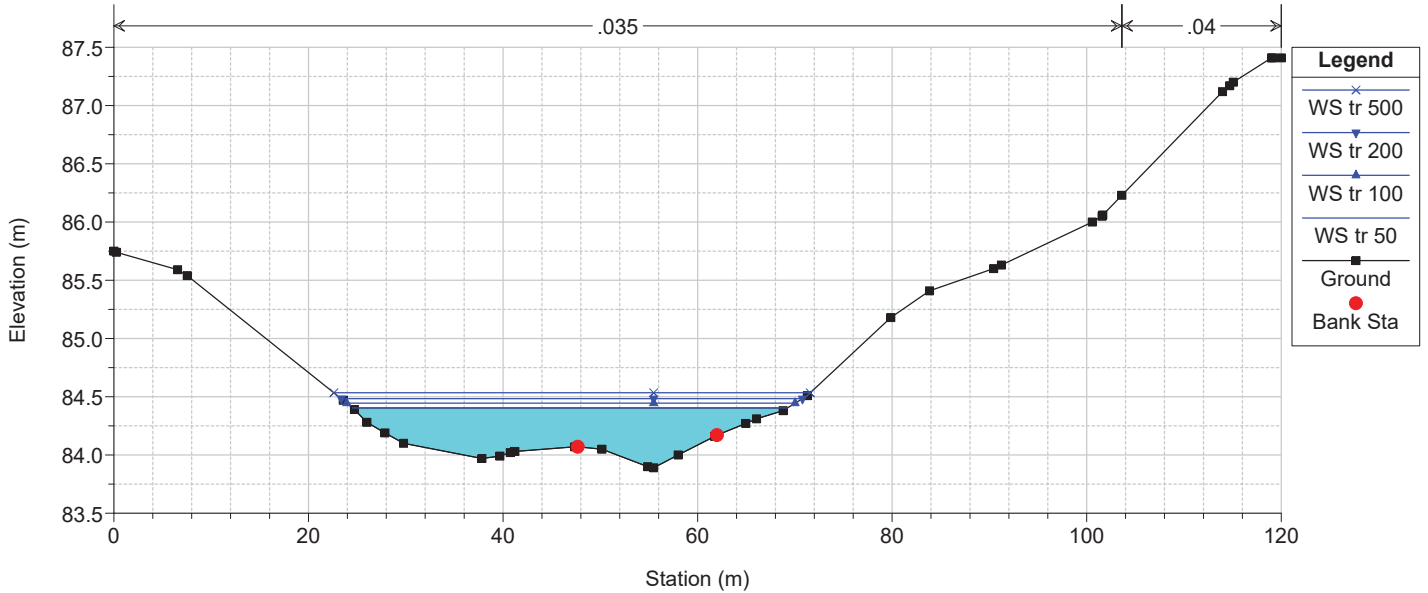
River = Rio Calabona Reach = Asta 1 RS = 4078.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

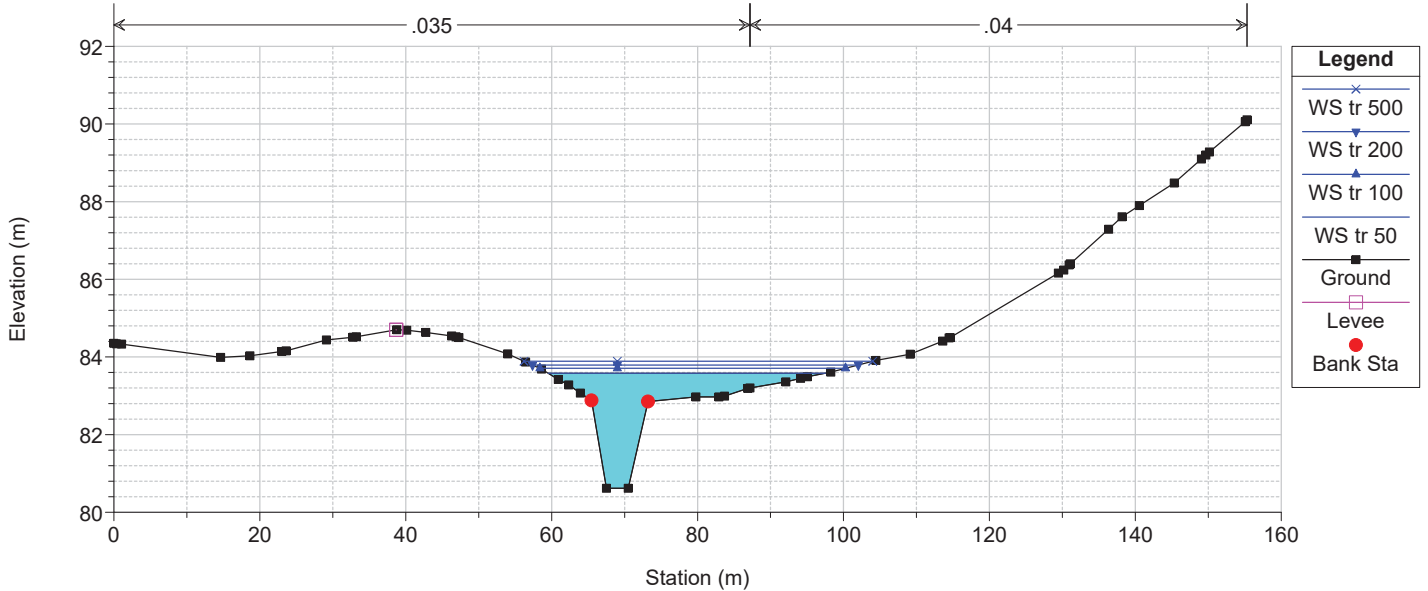
River = Rio Calabona Reach = Asta 1 RS = 4028.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

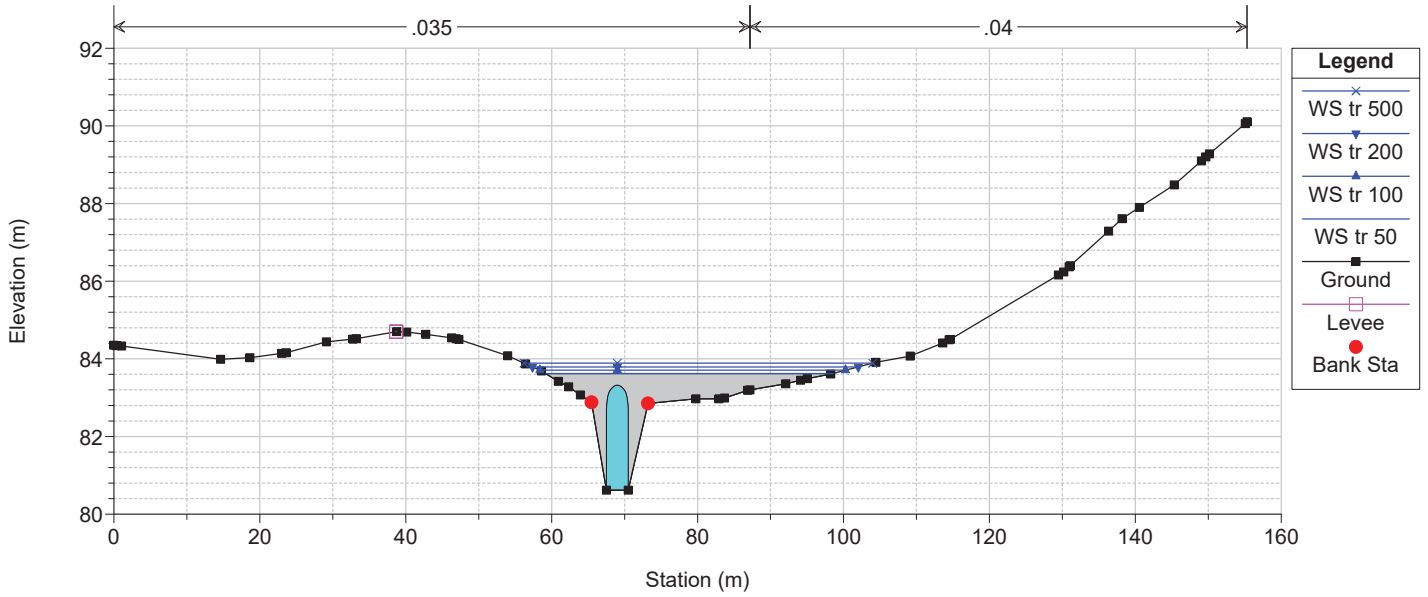
River = Rio Calabona Reach = Asta 1 RS = 3976.868 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

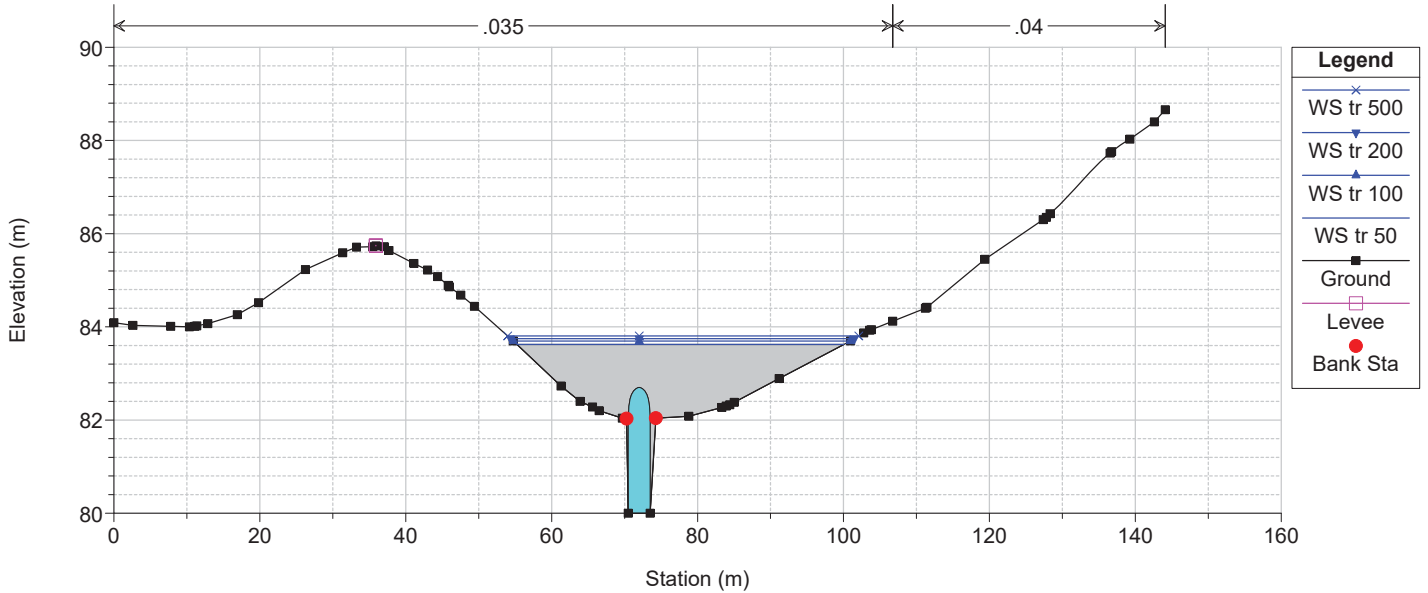
River = Rio Calabona Reach = Asta 1 RS = 3950.562 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

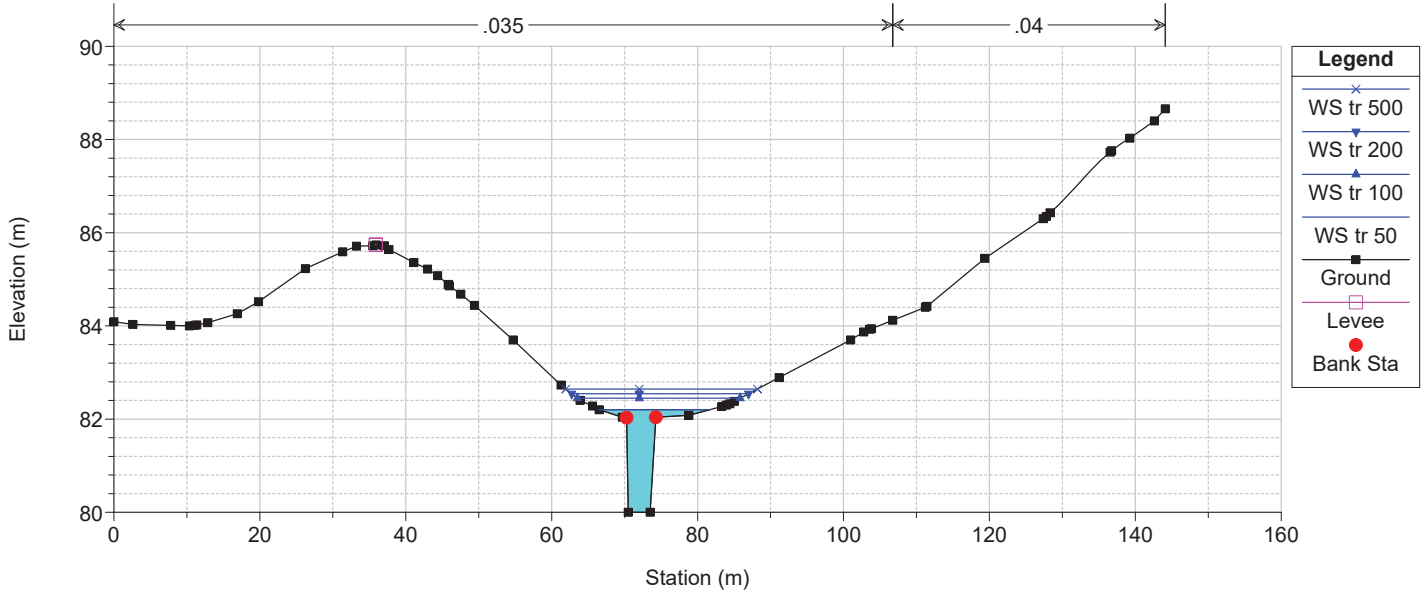
River = Rio Calabona Reach = Asta 1 RS = 3950.562 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

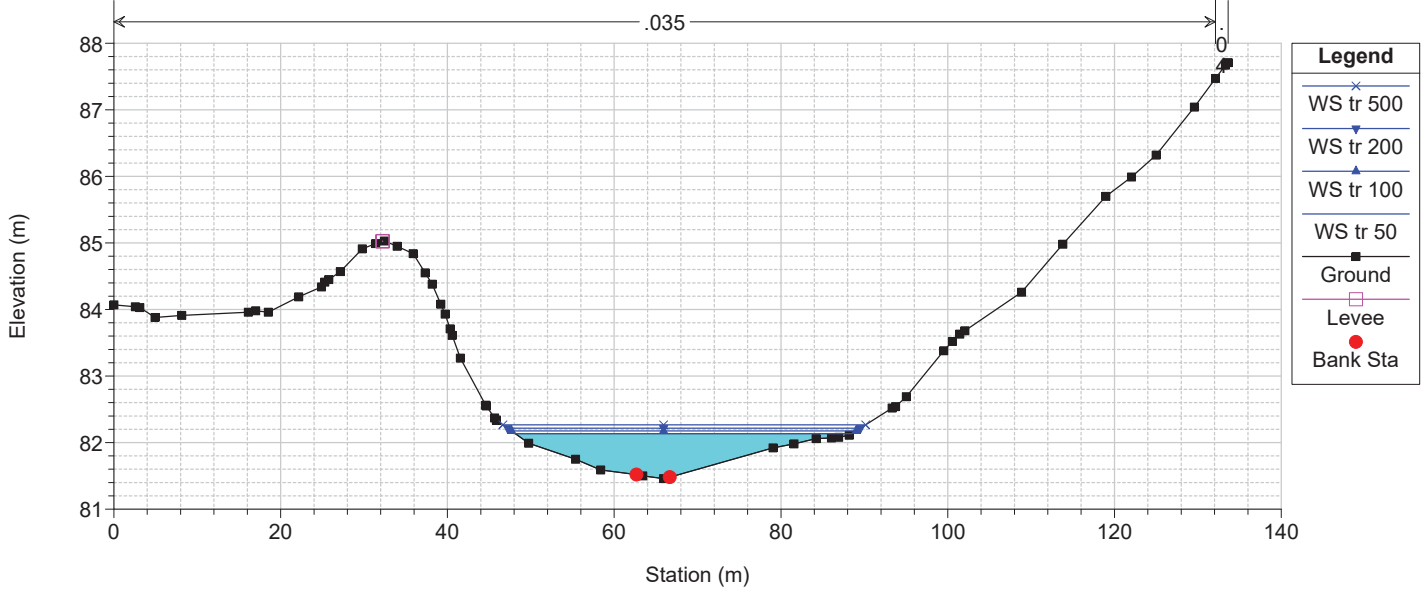
River = Rio Calabona Reach = Asta 1 RS = 3940.943 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

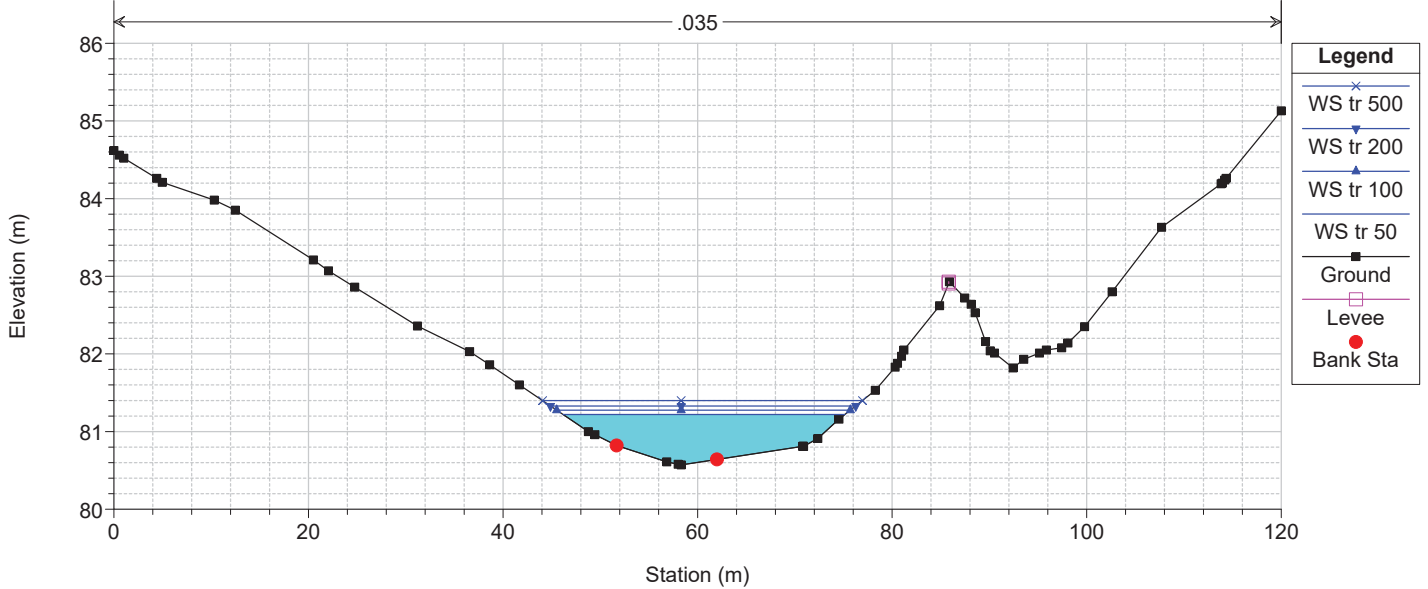
River = Rio Calabona Reach = Asta 1 RS = 3917.049 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

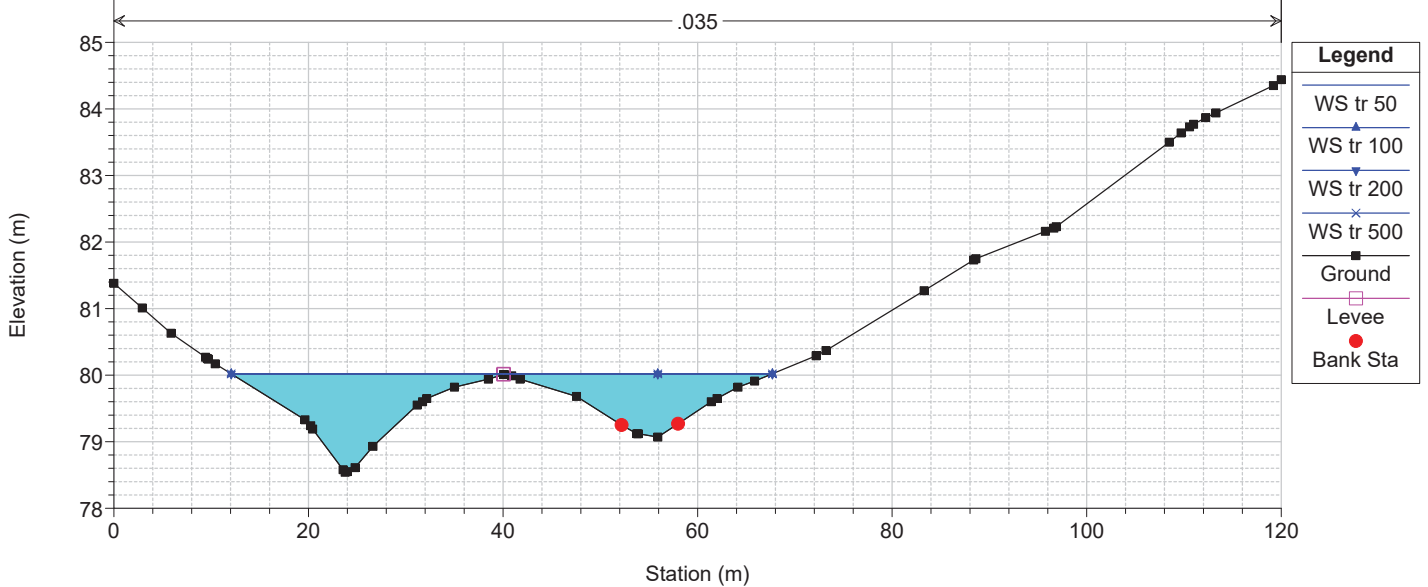
River = Rio Calabona Reach = Asta 1 RS = 3878.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

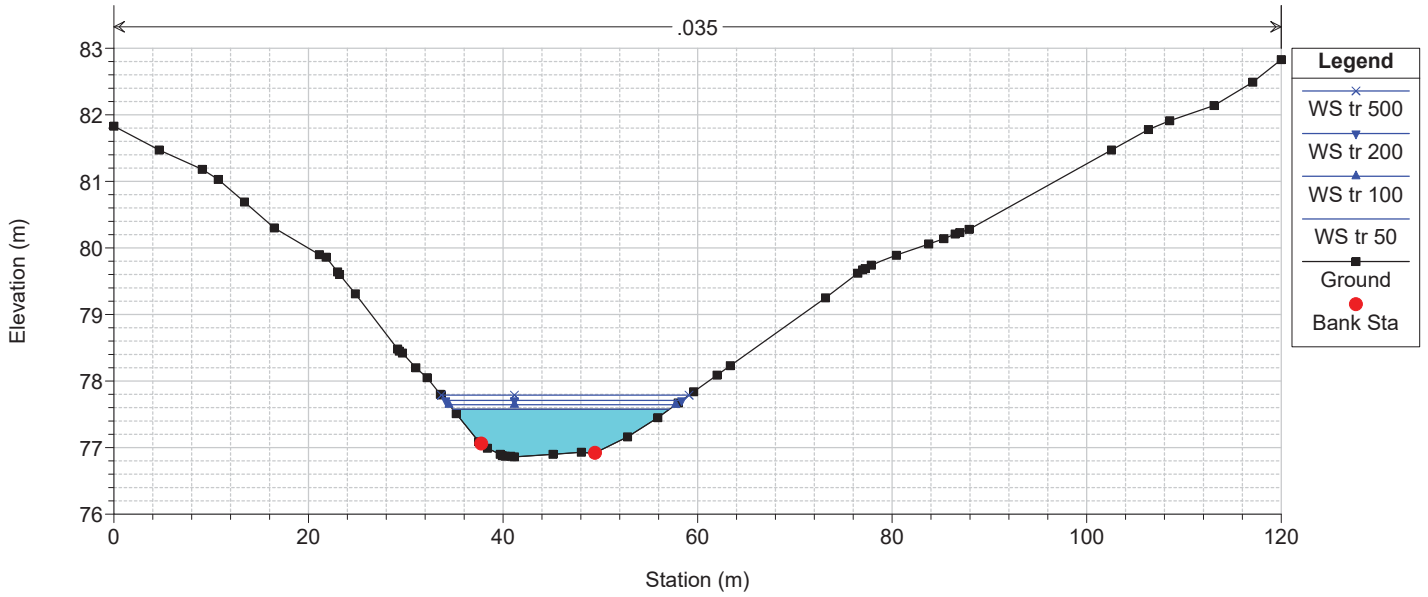
River = Rio Calabona Reach = Asta 1 RS = 3828.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

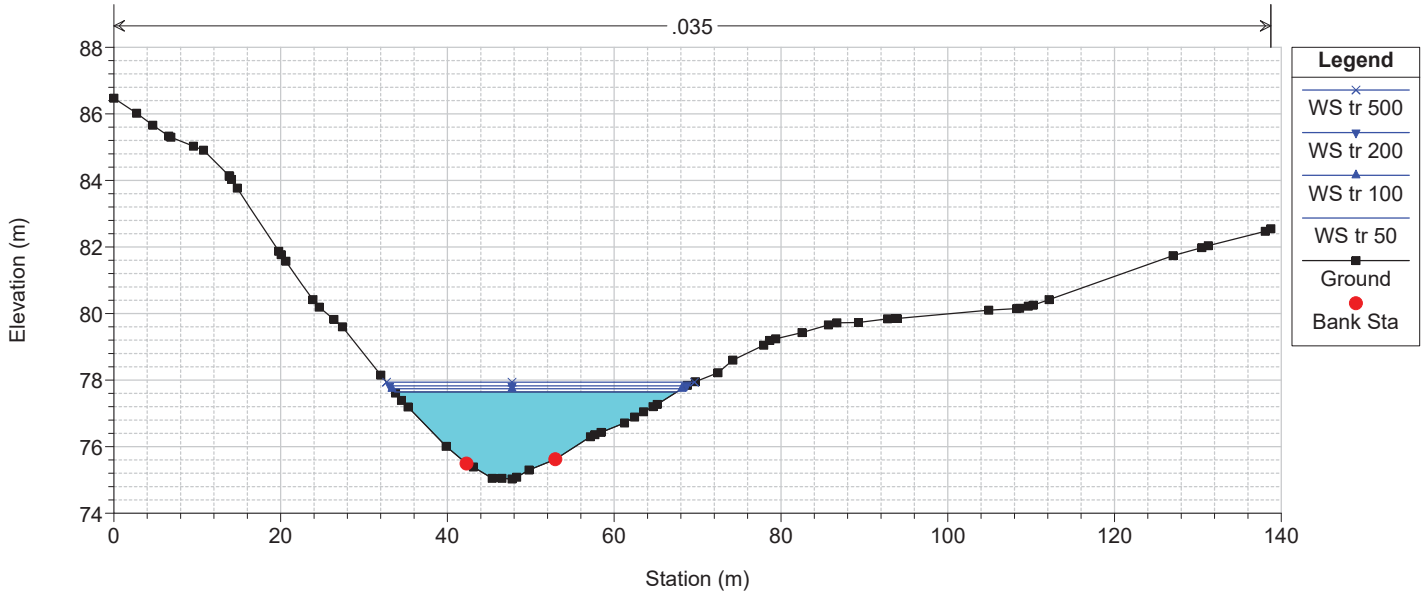
River = Rio Calabona Reach = Asta 1 RS = 3778.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

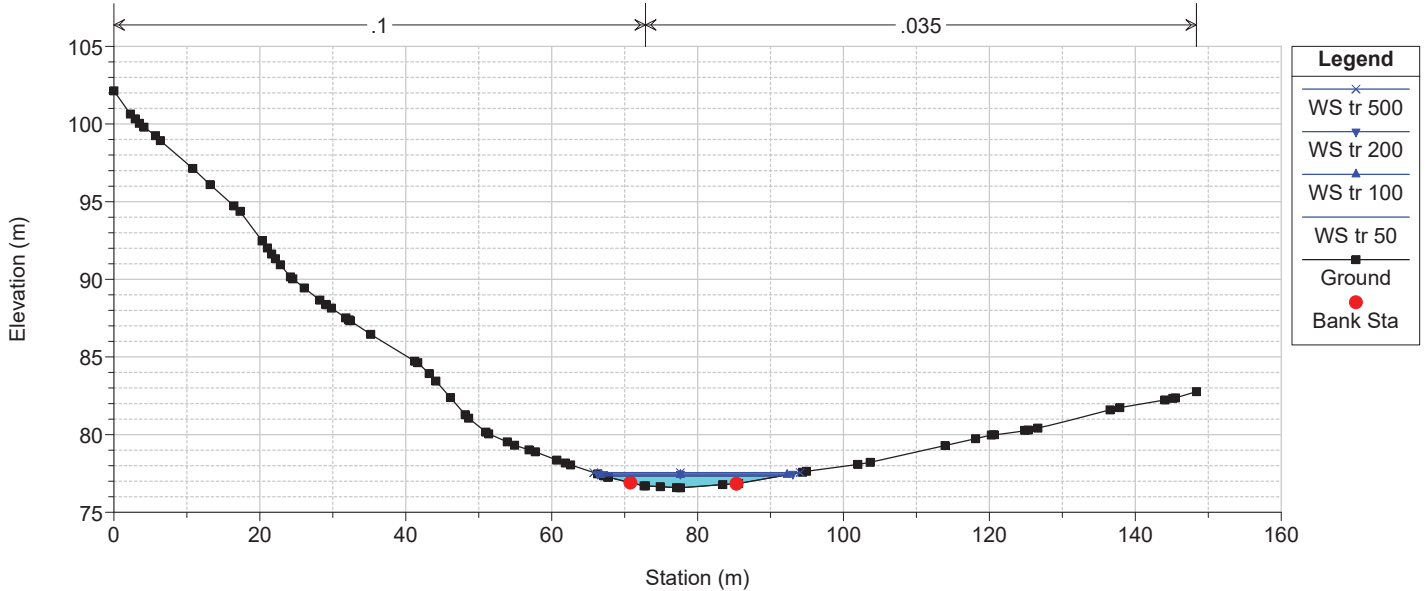
River = Rio Calabona Reach = Asta 1 RS = 3735.233 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

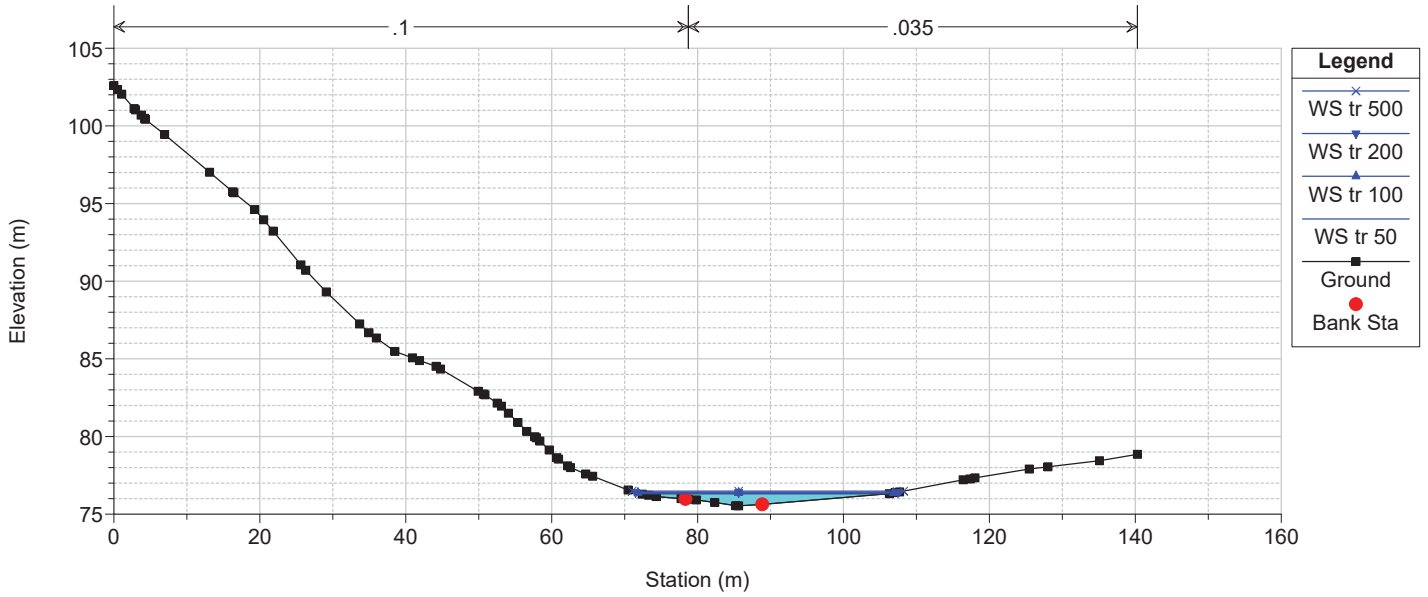
River = Rio Calabona Reach = Asta 1 RS = 3665.624 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

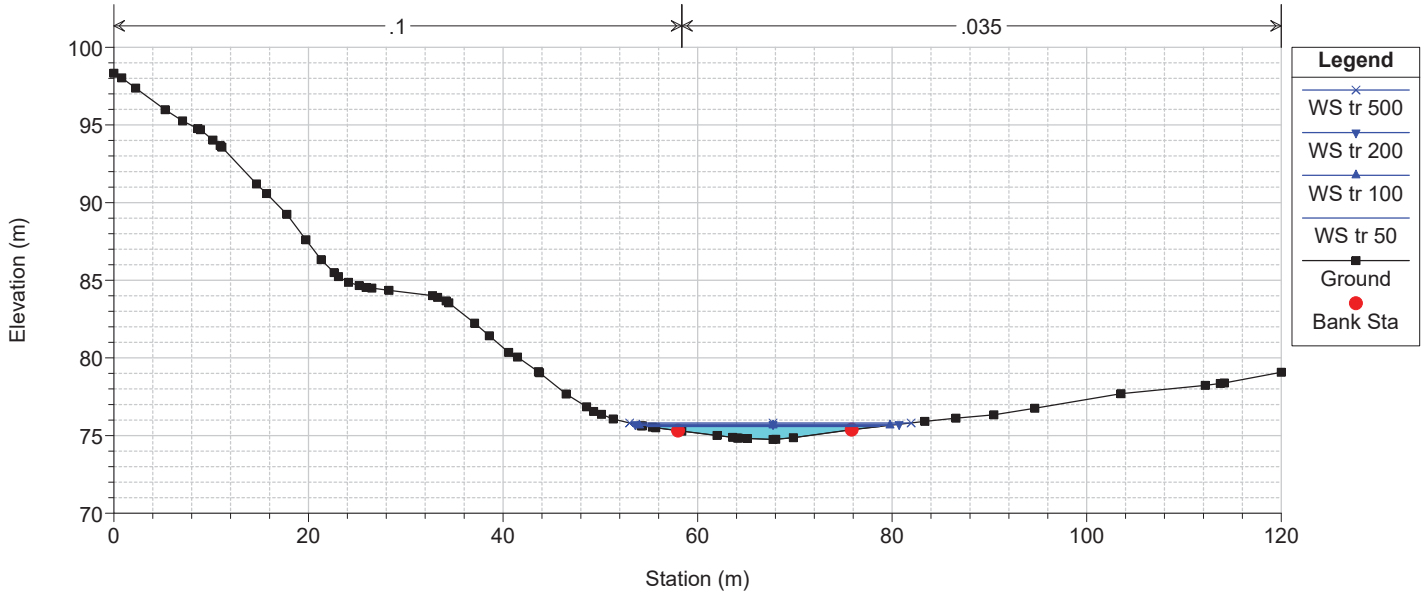
River = Rio Calabona Reach = Asta 1 RS = 3617.807 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

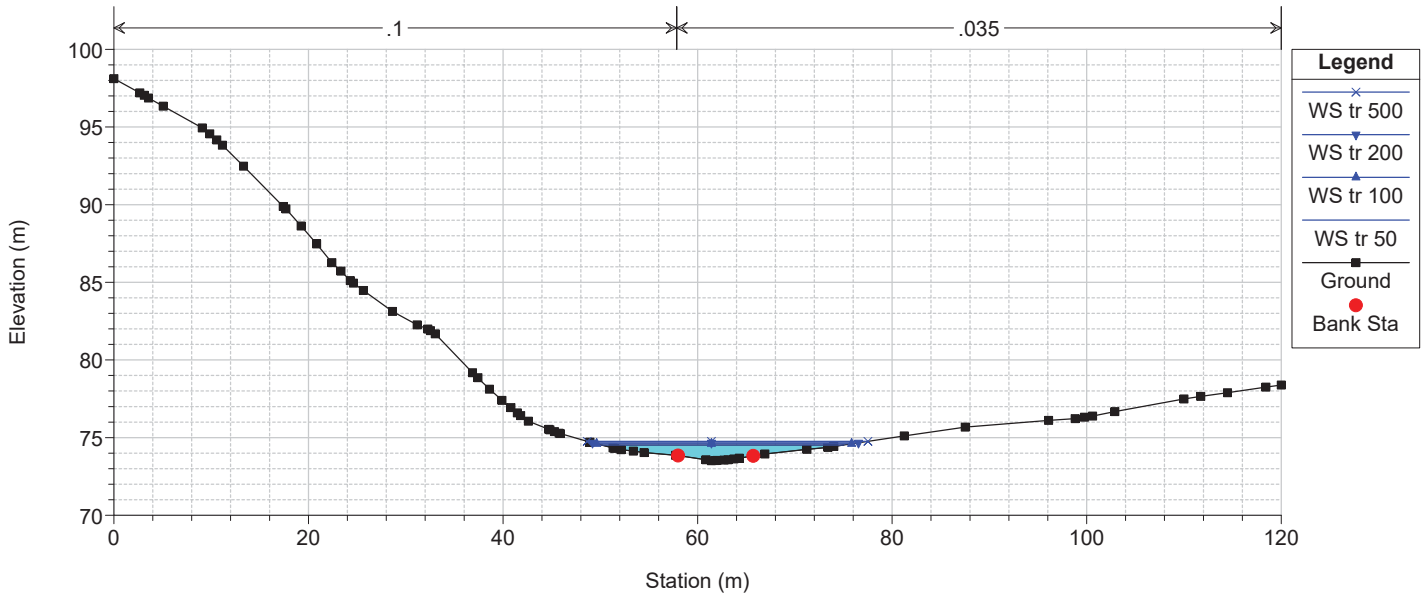
River = Rio Calabona Reach = Asta 1 RS = 3578.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

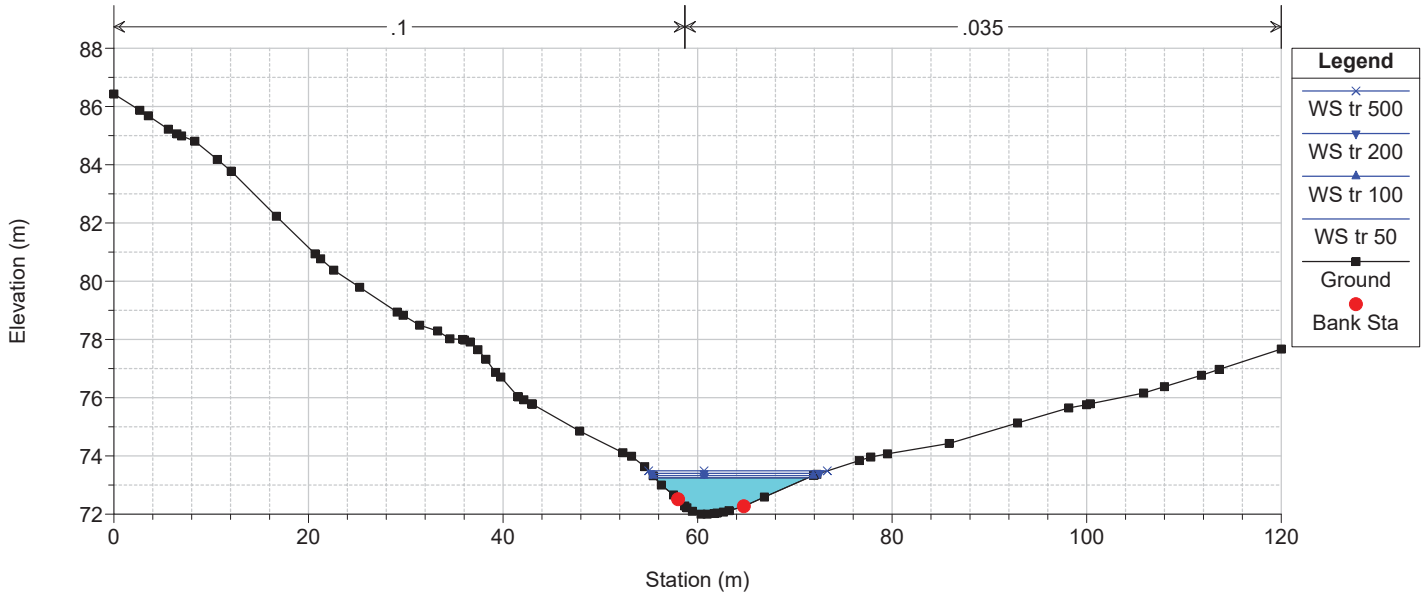
River = Rio Calabona Reach = Asta 1 RS = 3528.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

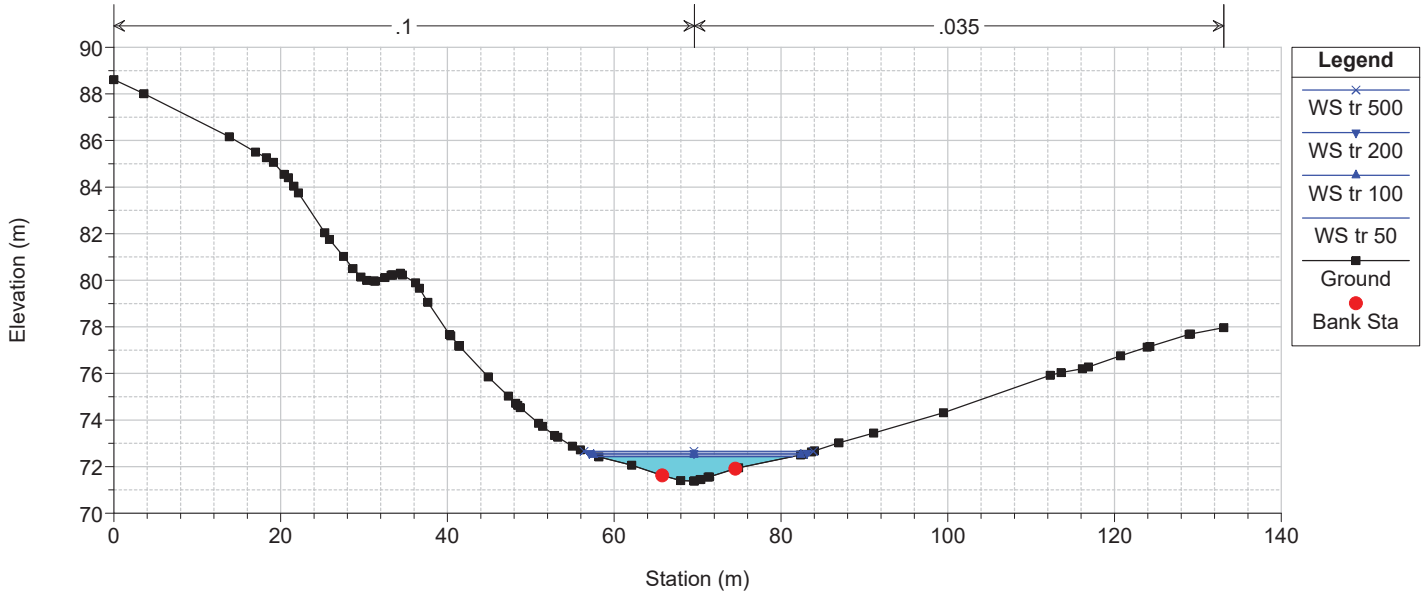
River = Rio Calabona Reach = Asta 1 RS = 3478.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

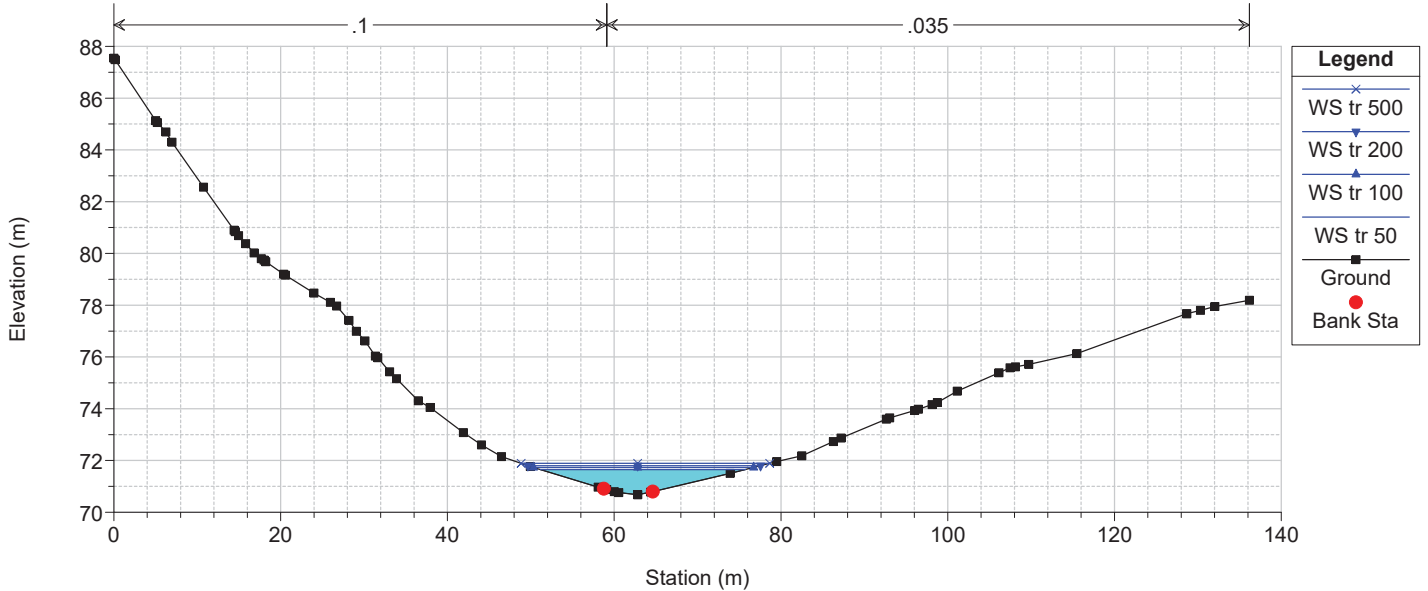
River = Rio Calabona Reach = Asta 1 RS = 3420.841 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

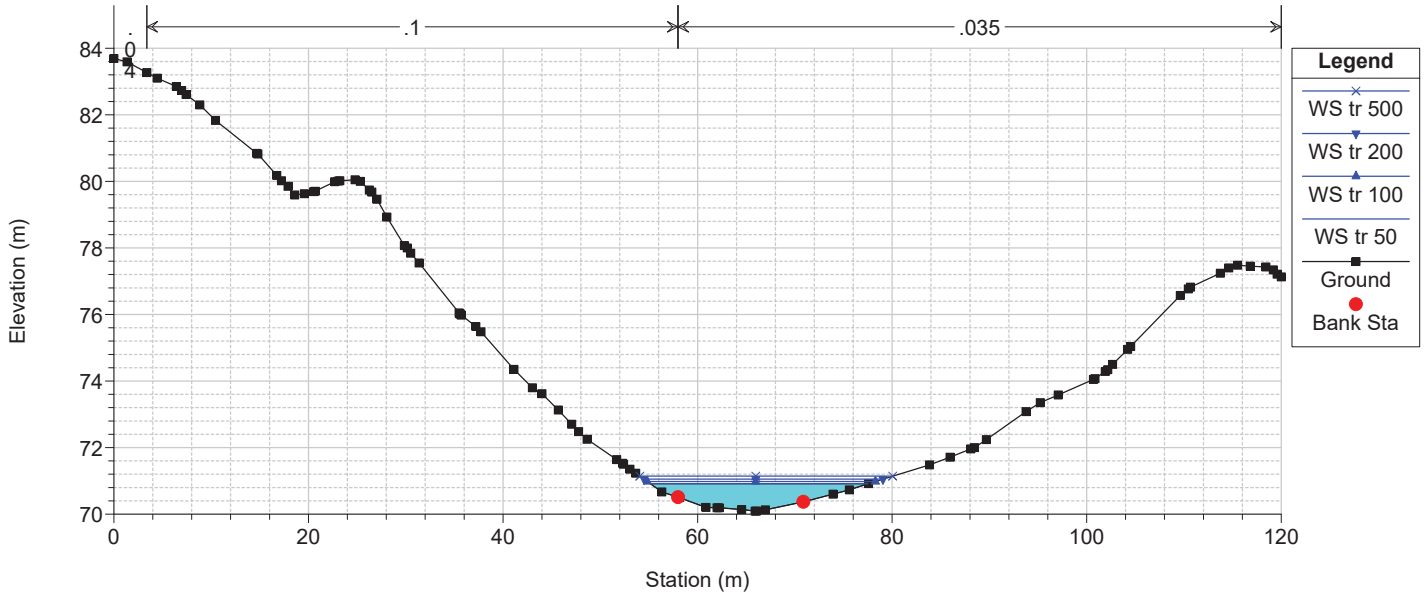
River = Rio Calabona Reach = Asta 1 RS = 3369.955 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

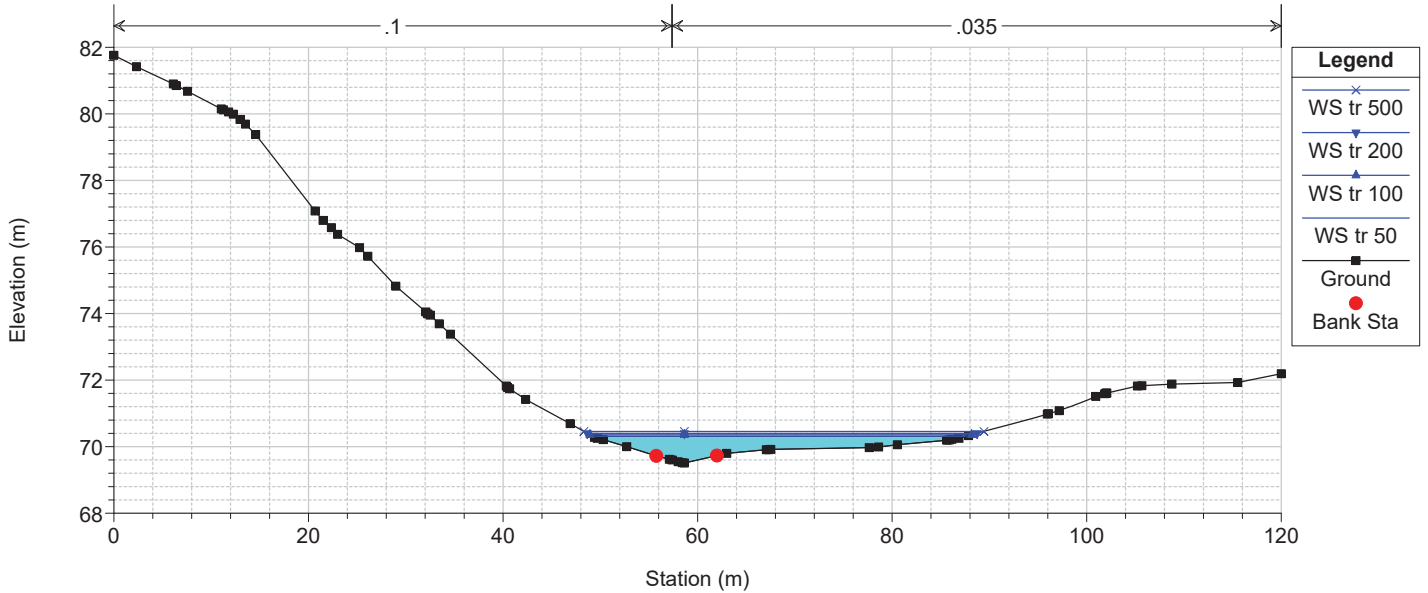
River = Rio Calabona Reach = Asta 1 RS = 3328.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

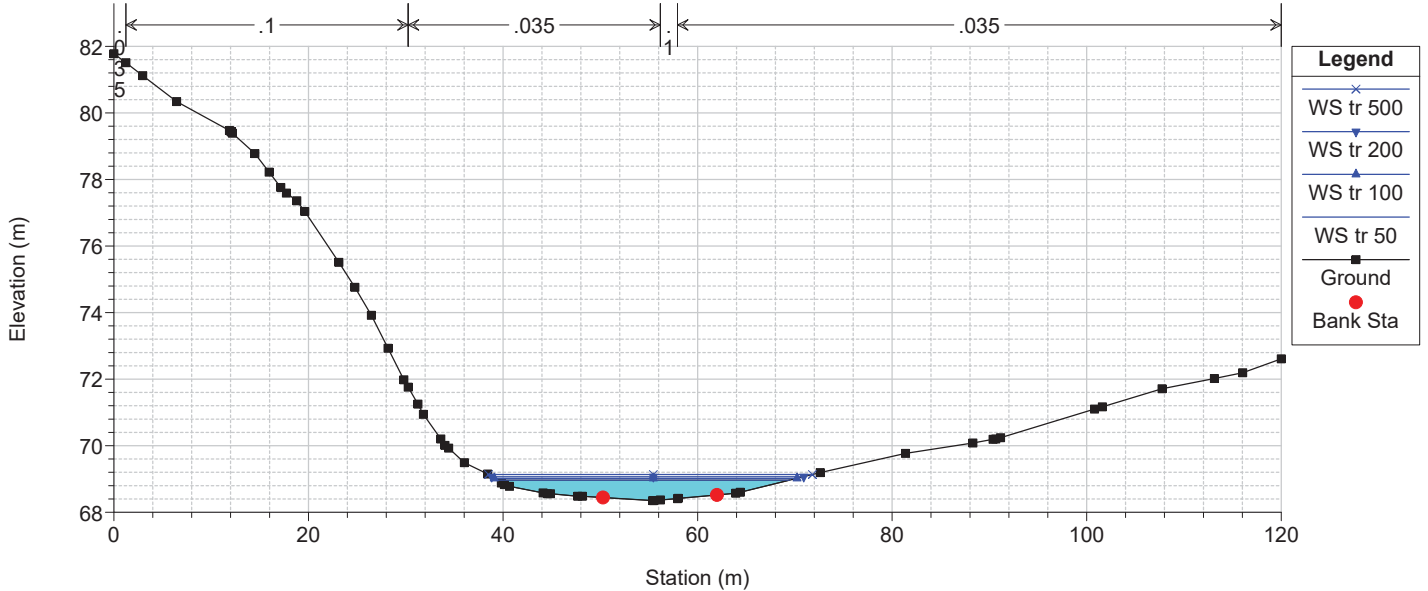
River = Rio Calabona Reach = Asta 1 RS = 3278.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

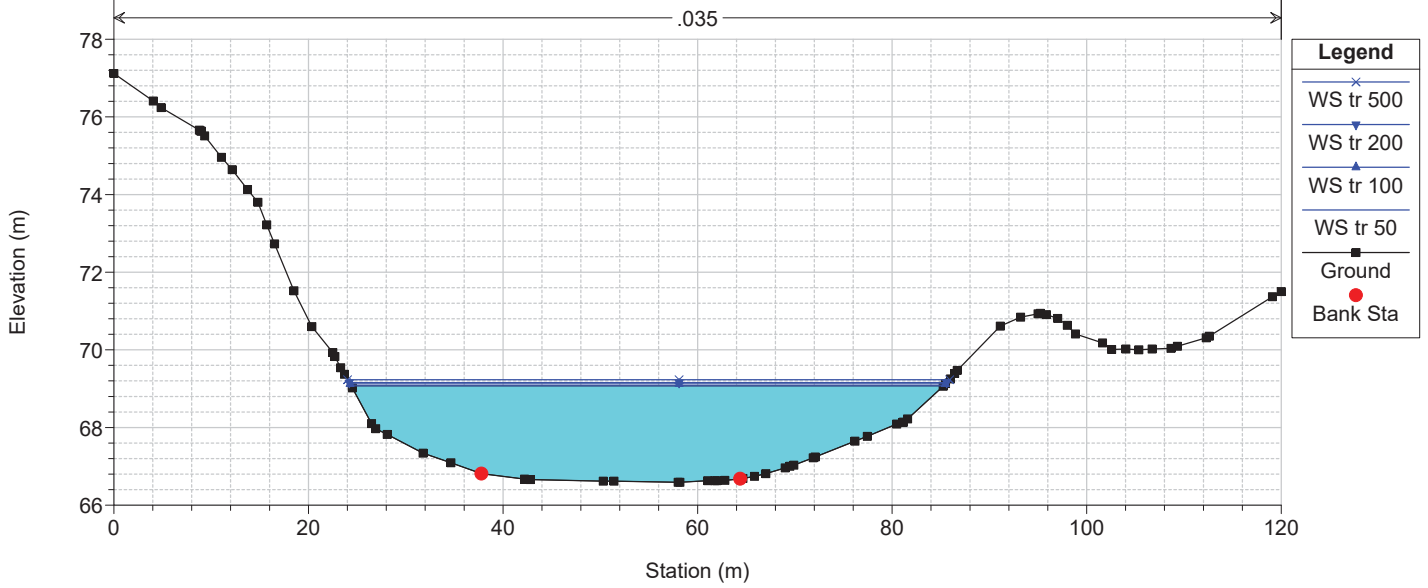
River = Rio Calabona Reach = Asta 1 RS = 3228.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

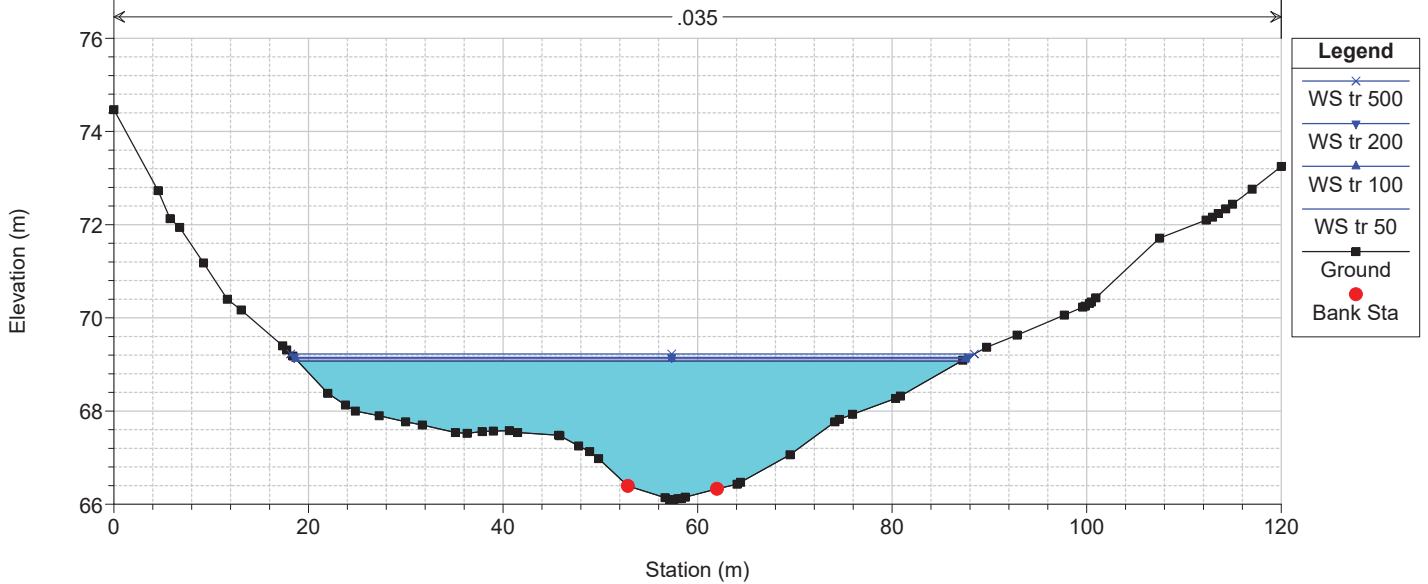
River = Rio Calabona Reach = Asta 1 RS = 3128.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

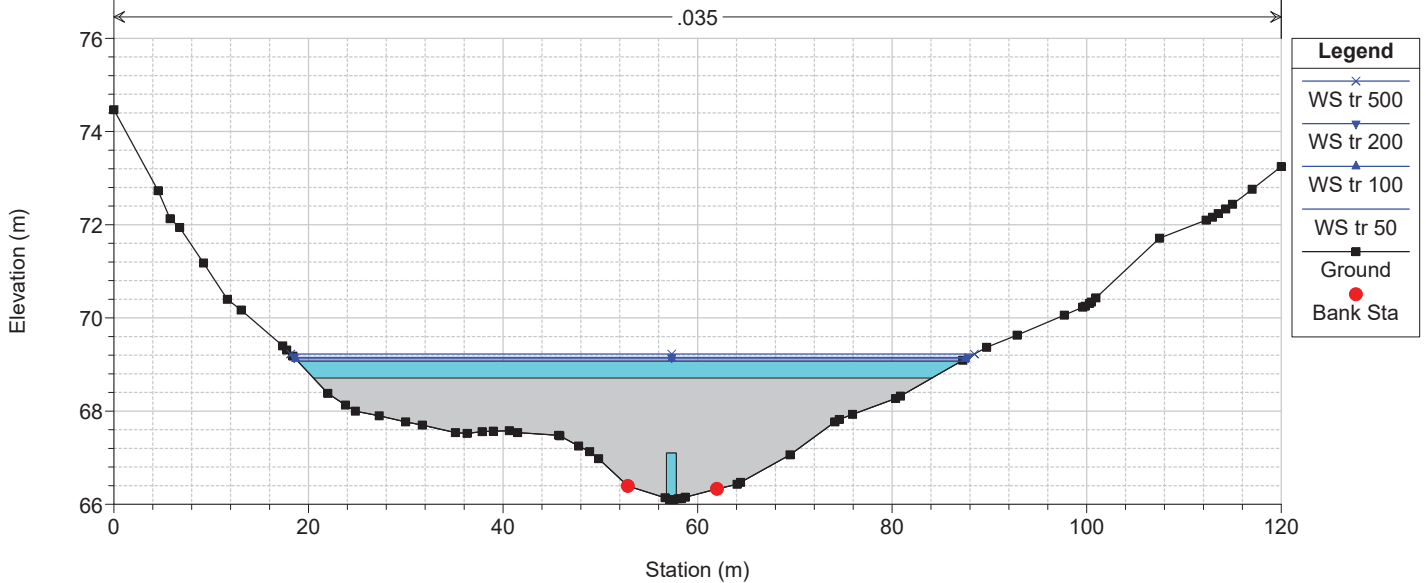
River = Rio Calabona Reach = Asta 1 RS = 3078.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

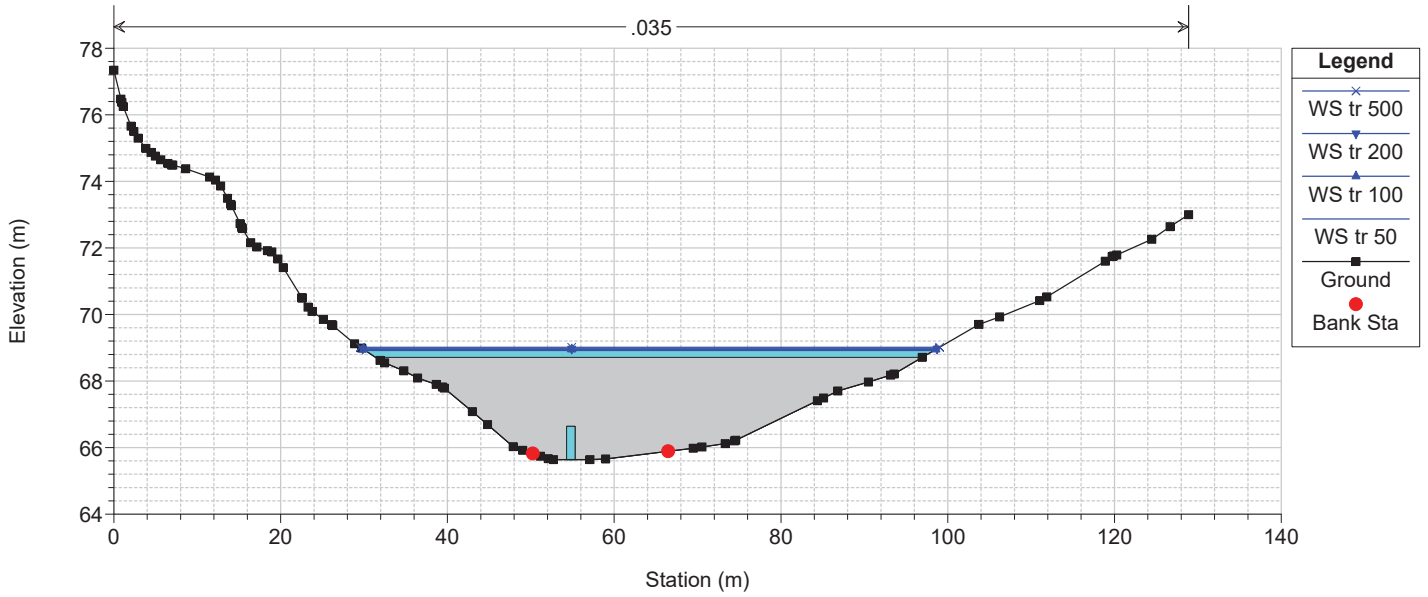
River = Rio Calabona Reach = Asta 1 RS = 3071.681 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

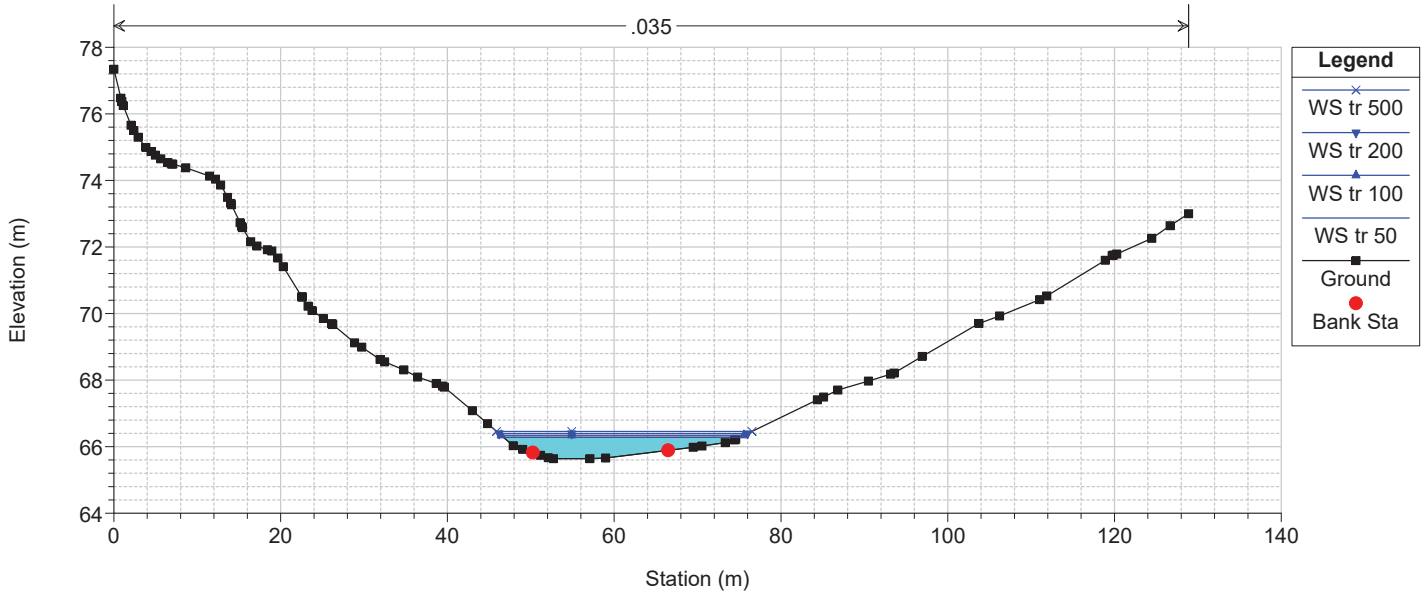
River = Rio Calabona Reach = Asta 1 RS = 3071.681 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

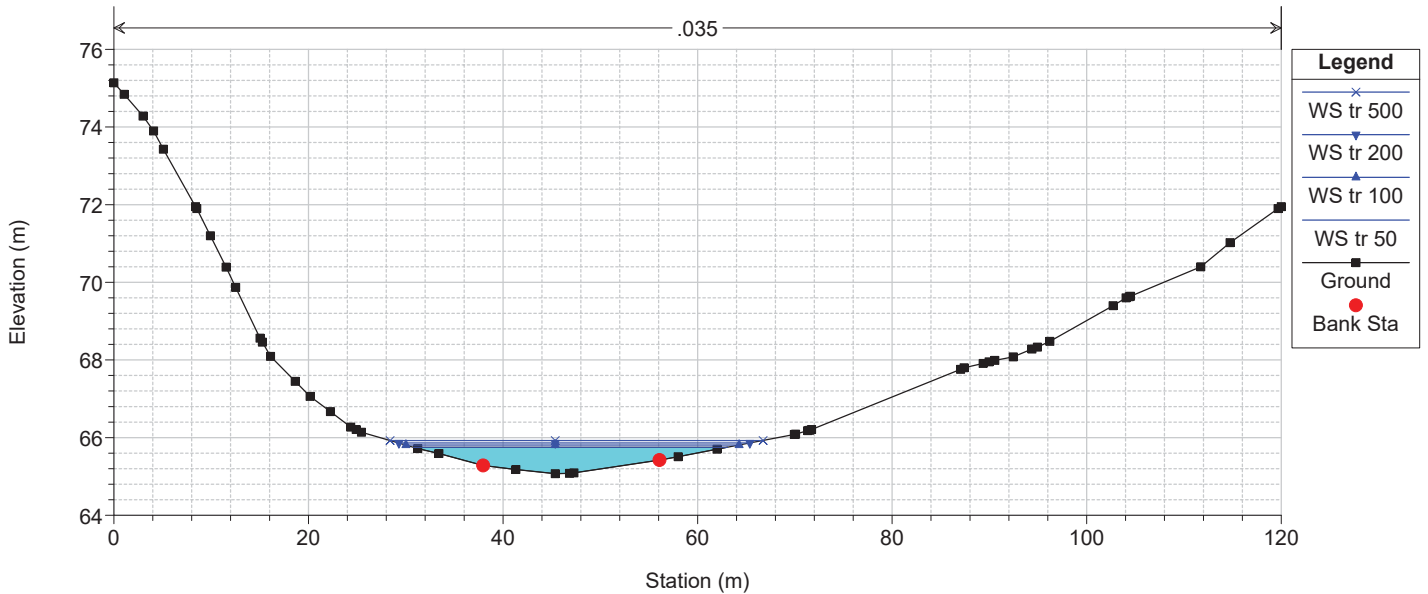
River = Rio Calabona Reach = Asta 1 RS = 3061.616 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

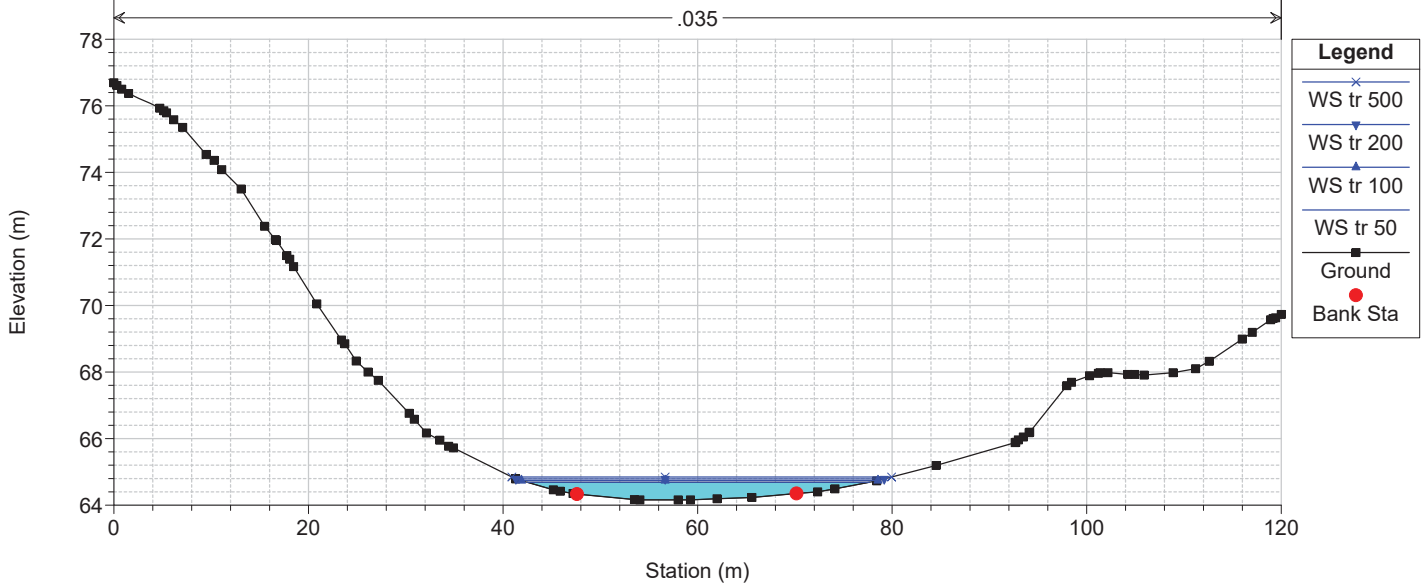
River = Rio Calabona Reach = Asta 1 RS = 3028.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

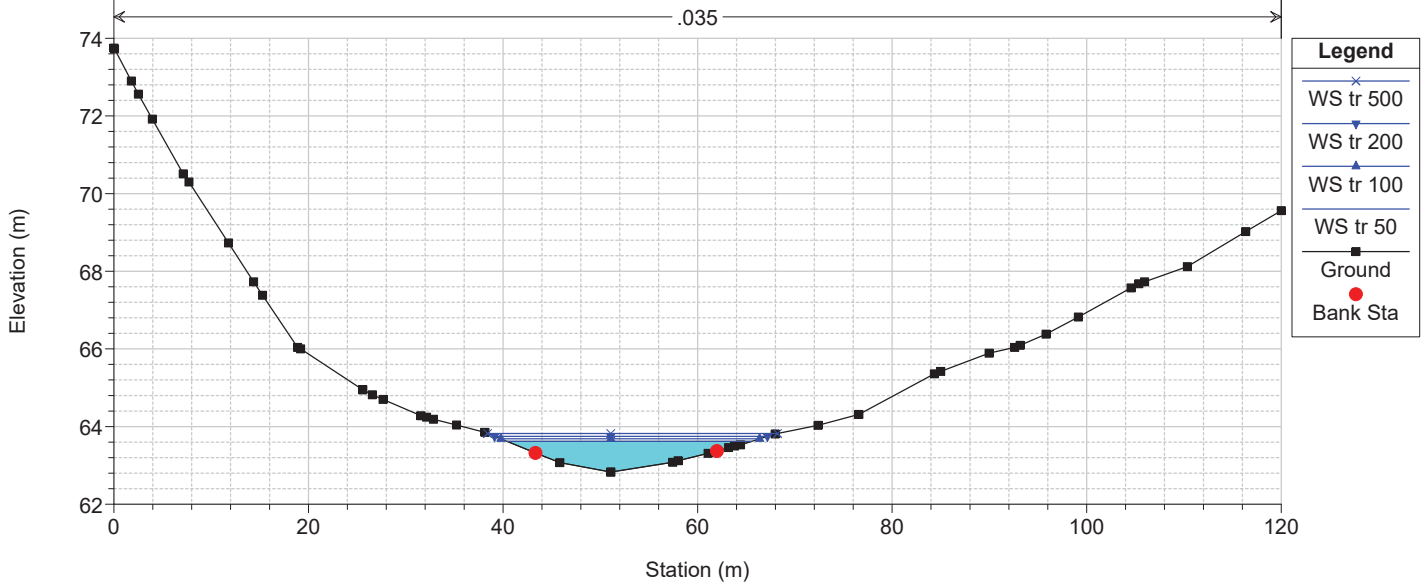
River = Rio Calabona Reach = Asta 1 RS = 2978.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

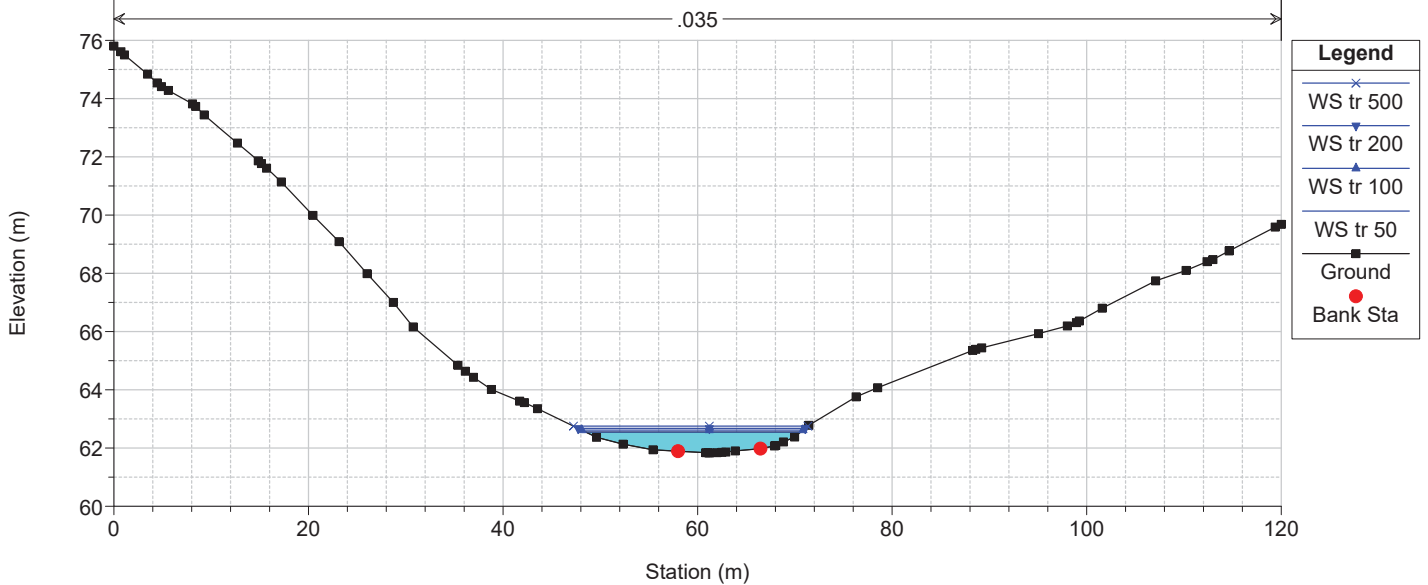
River = Rio Calabona Reach = Asta 1 RS = 2928.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

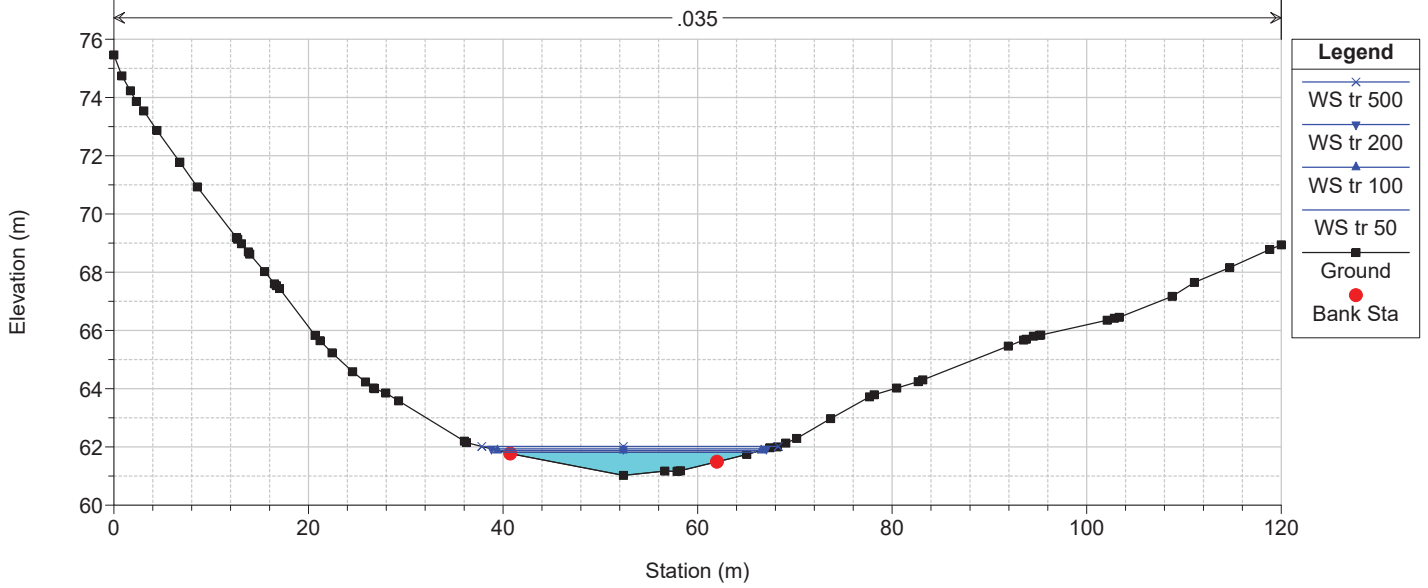
River = Rio Calabona Reach = Asta 1 RS = 2878.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

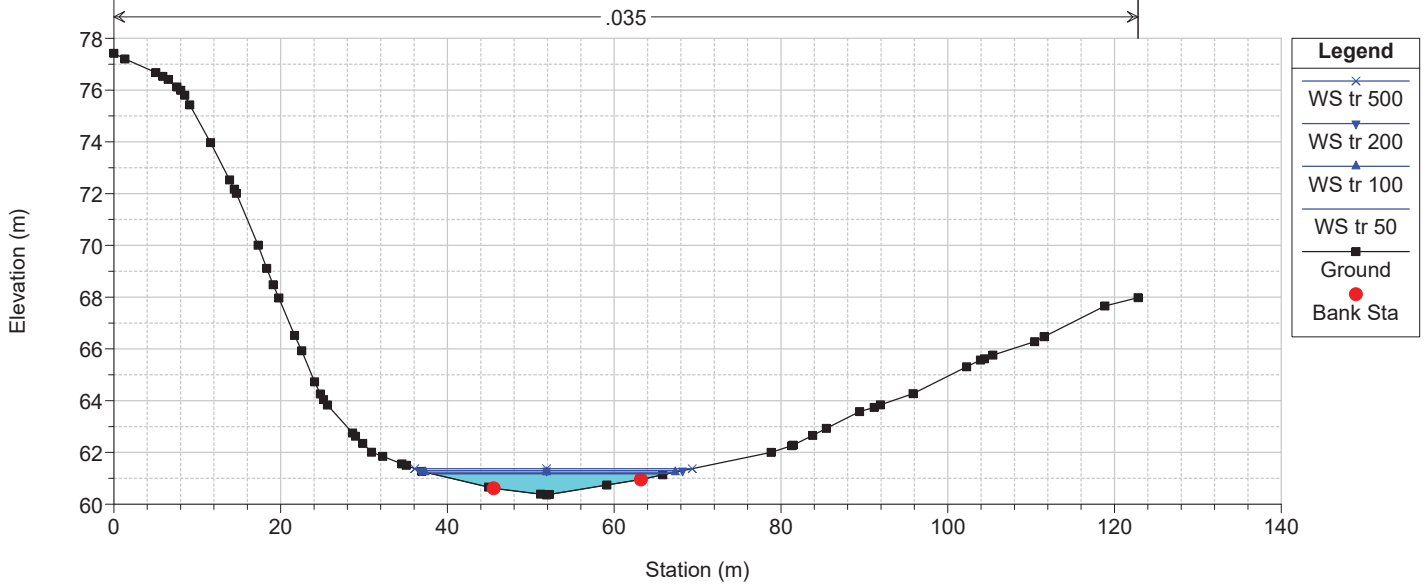
River = Rio Calabona Reach = Asta 1 RS = 2828.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

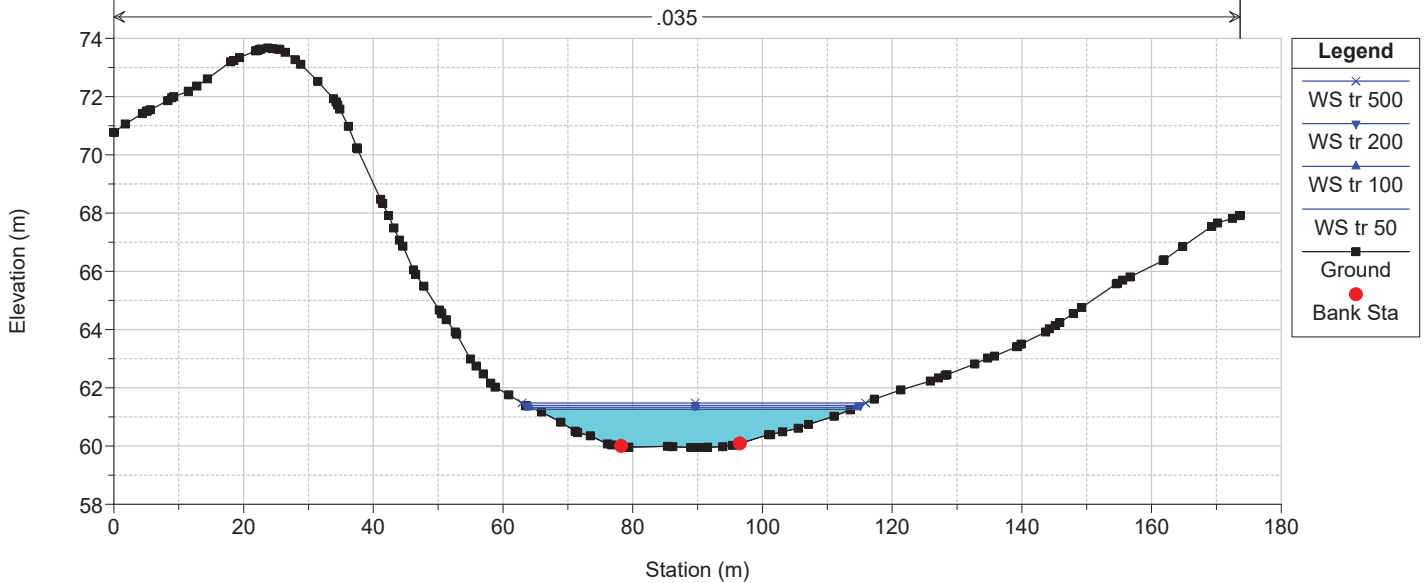
River = Rio Calabona Reach = Asta 1 RS = 2789.446 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

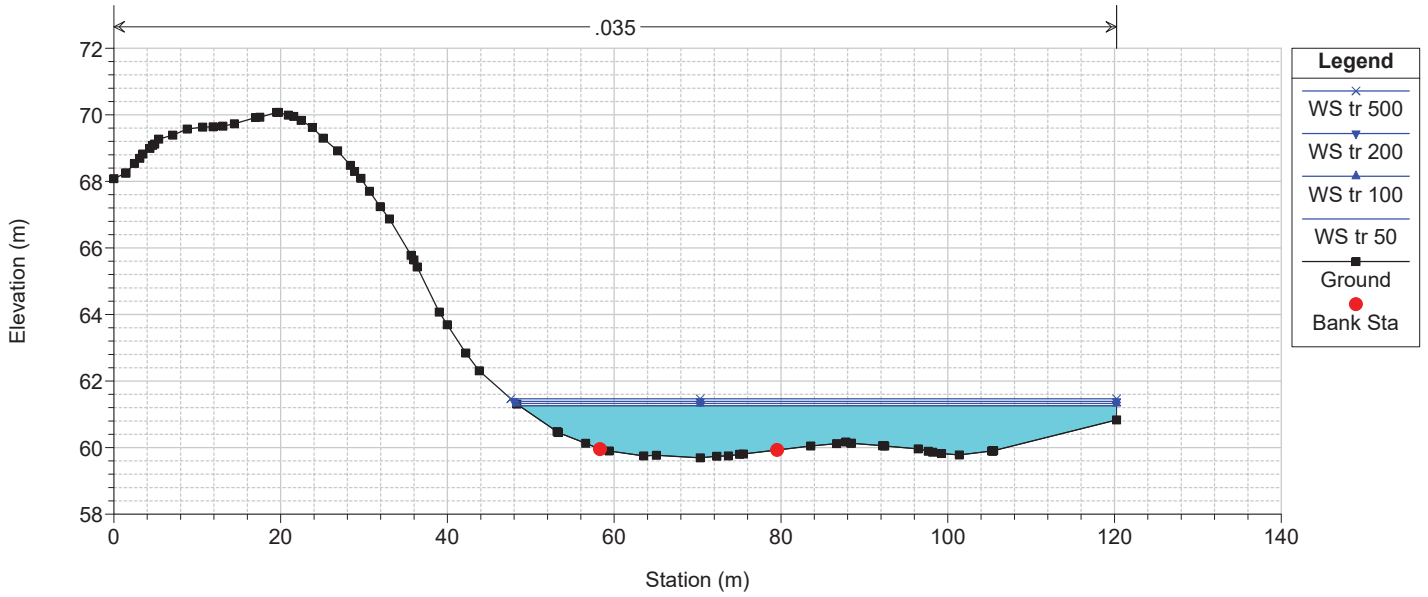
River = Rio Calabona Reach = Asta 1 RS = 2751.038 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

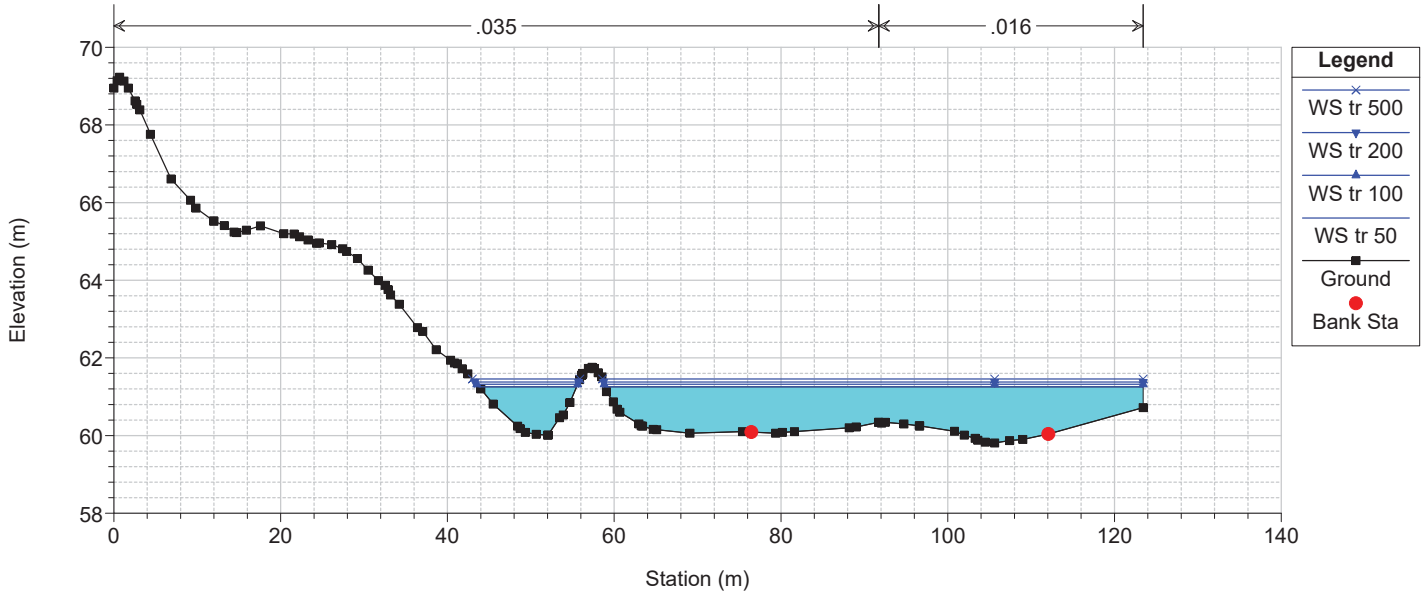
River = Rio Calabona Reach = Asta 2 RS = 2718.168 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

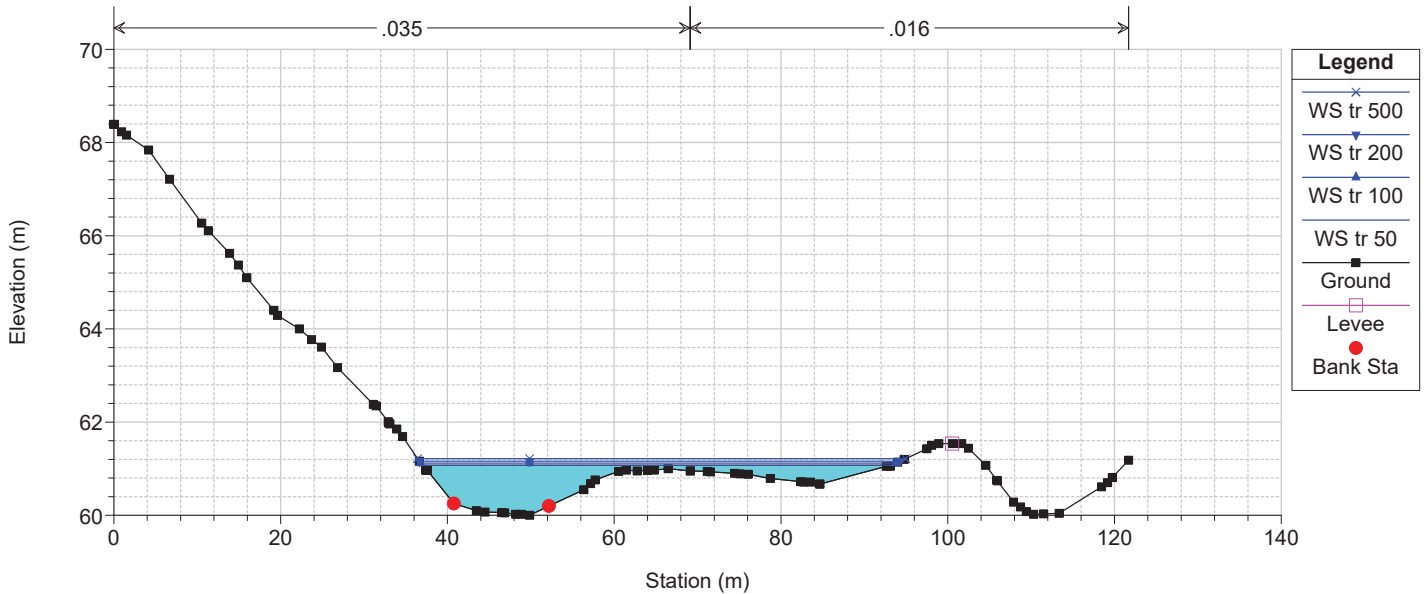
River = Rio Calabona Reach = Asta 2 RS = 2714.01 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

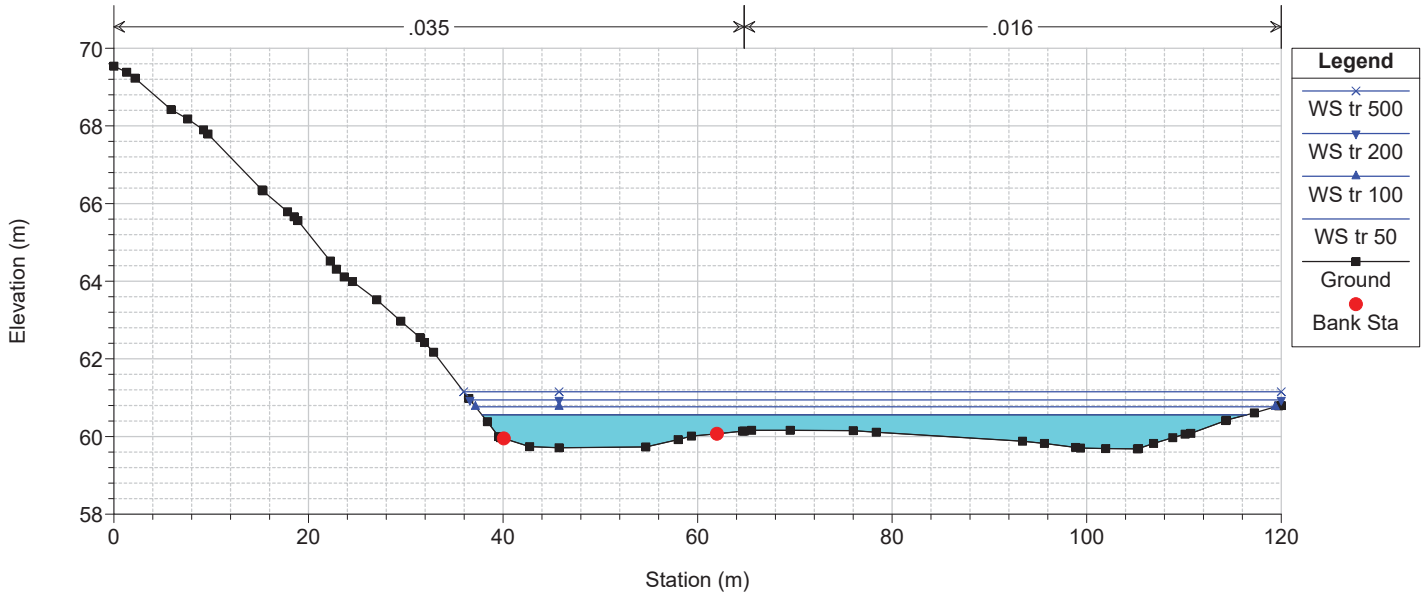
River = Rio Calabona Reach = Asta 2 RS = 2696.798 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

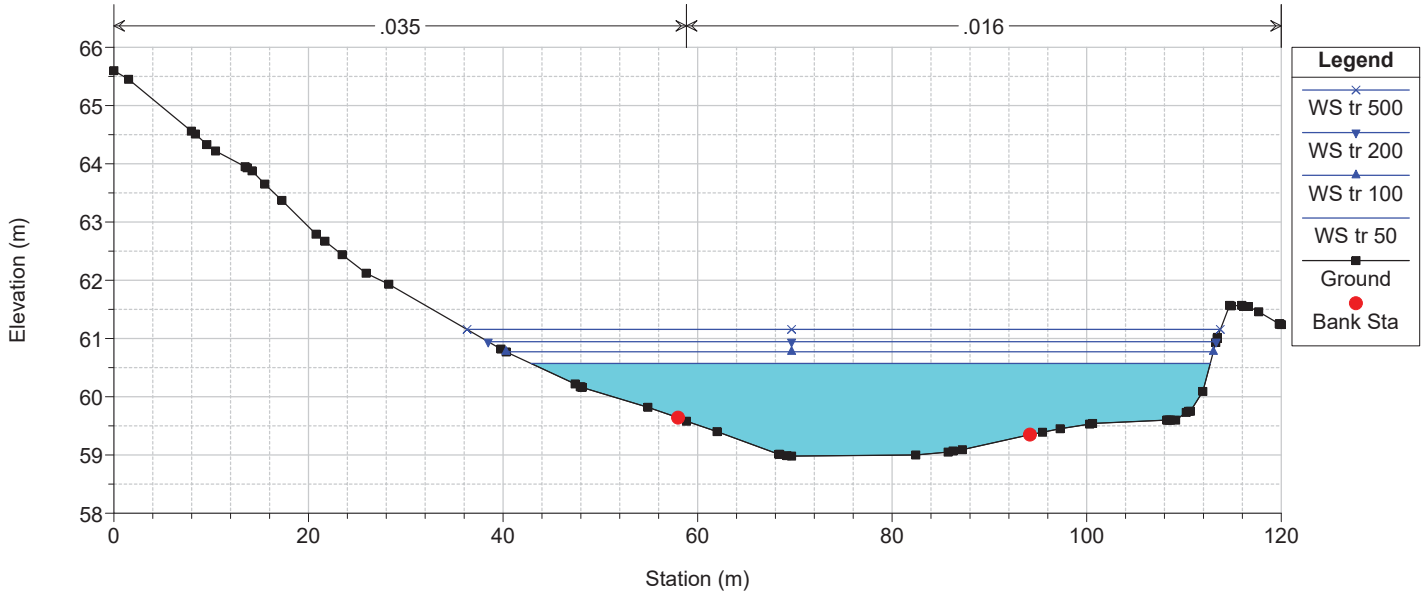
River = Rio Calabona Reach = Asta 2 RS = 2678.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

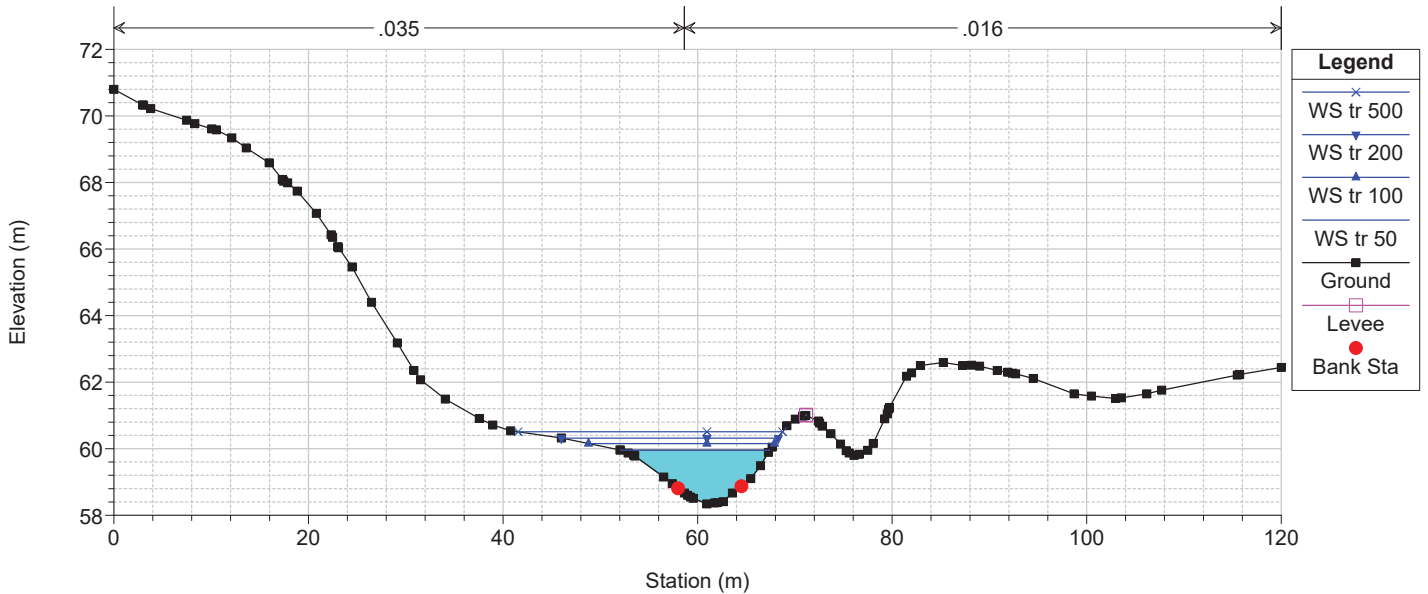
River = Rio Calabona Reach = Asta 2 RS = 2628.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

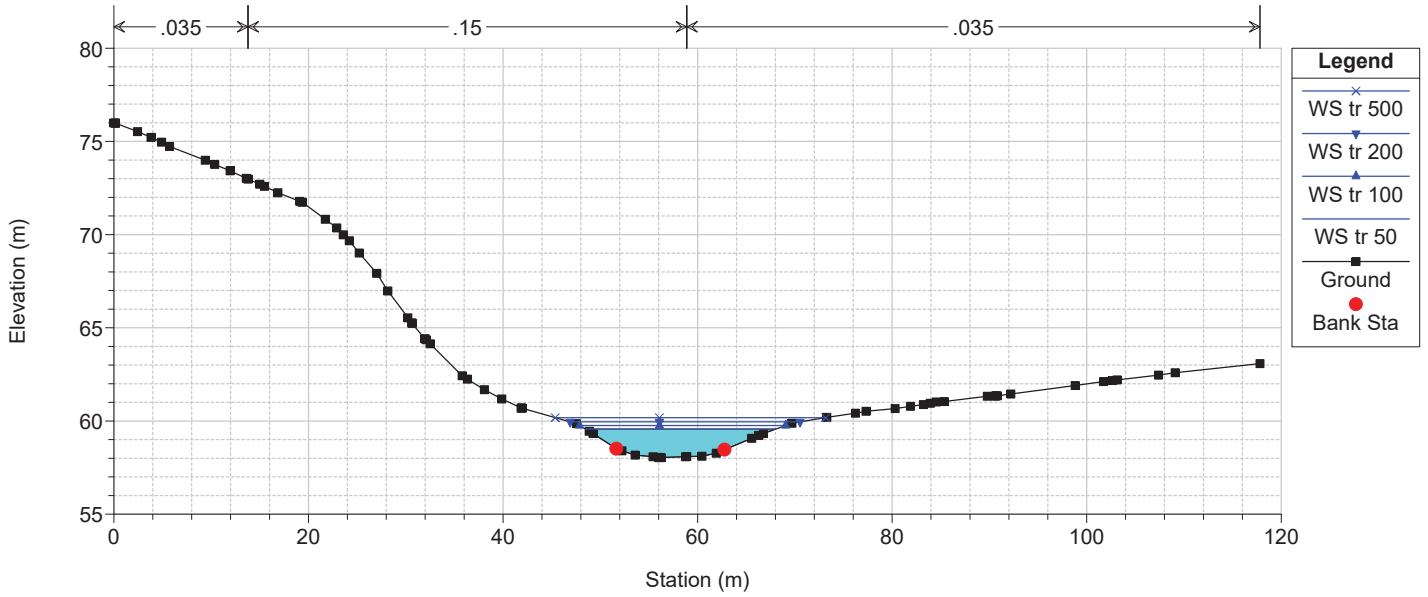
River = Rio Calabona Reach = Asta 2 RS = 2578.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

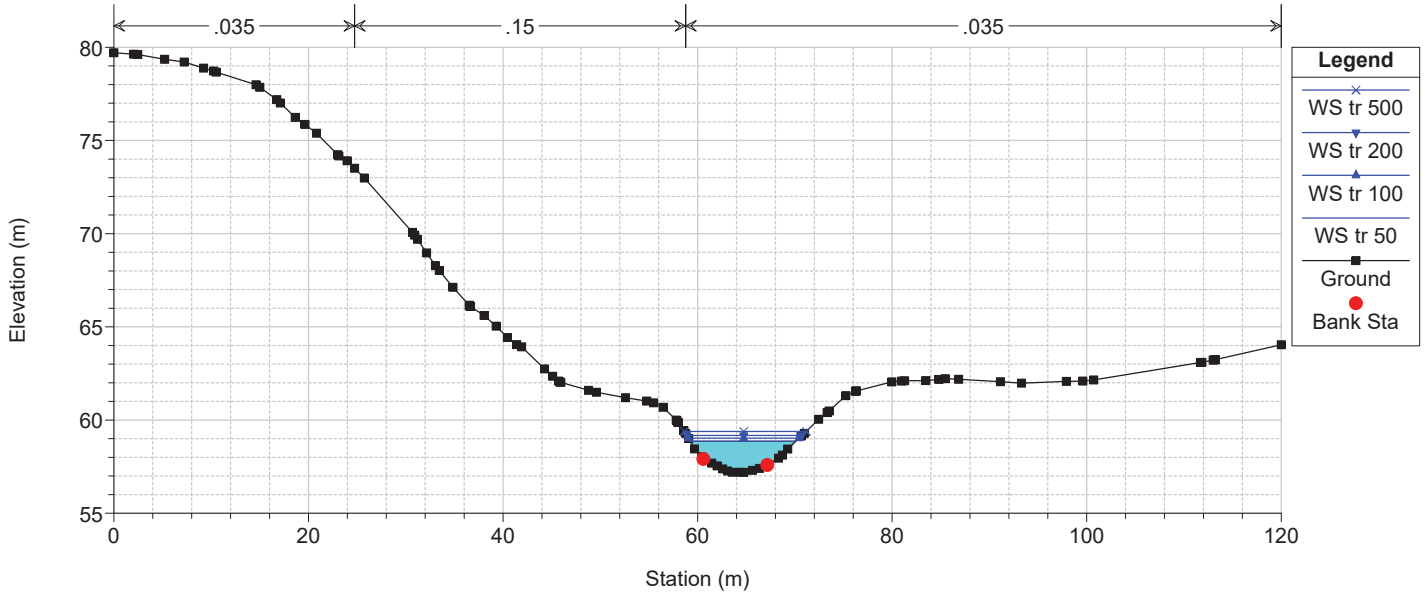
River = Rio Calabona Reach = Asta 2 RS = 2553.412 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

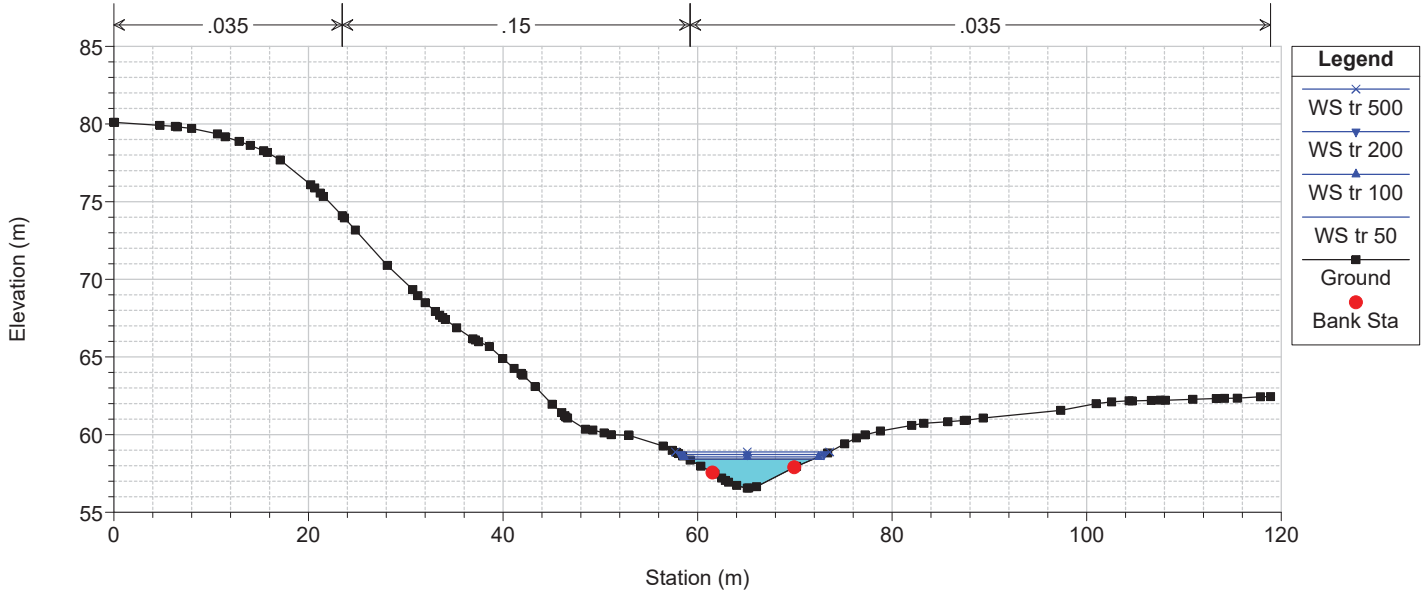
River = Rio Calabona Reach = Asta 2 RS = 2528.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

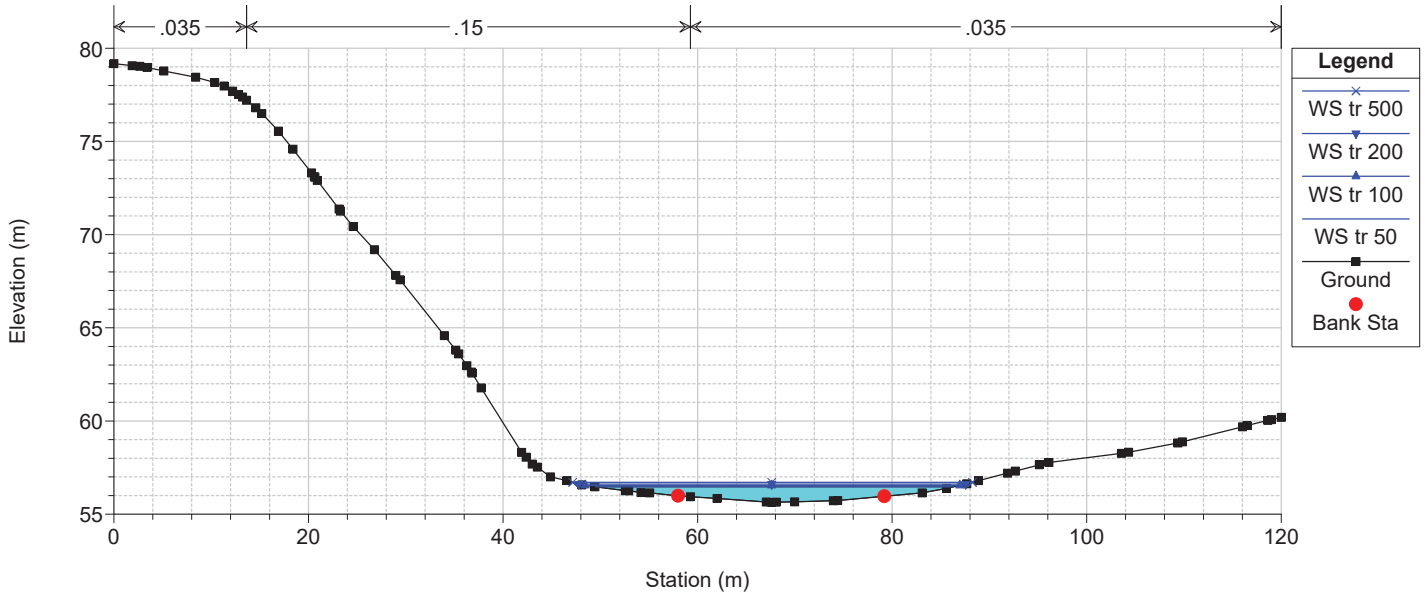
River = Rio Calabona Reach = Asta 2 RS = 2504.213 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

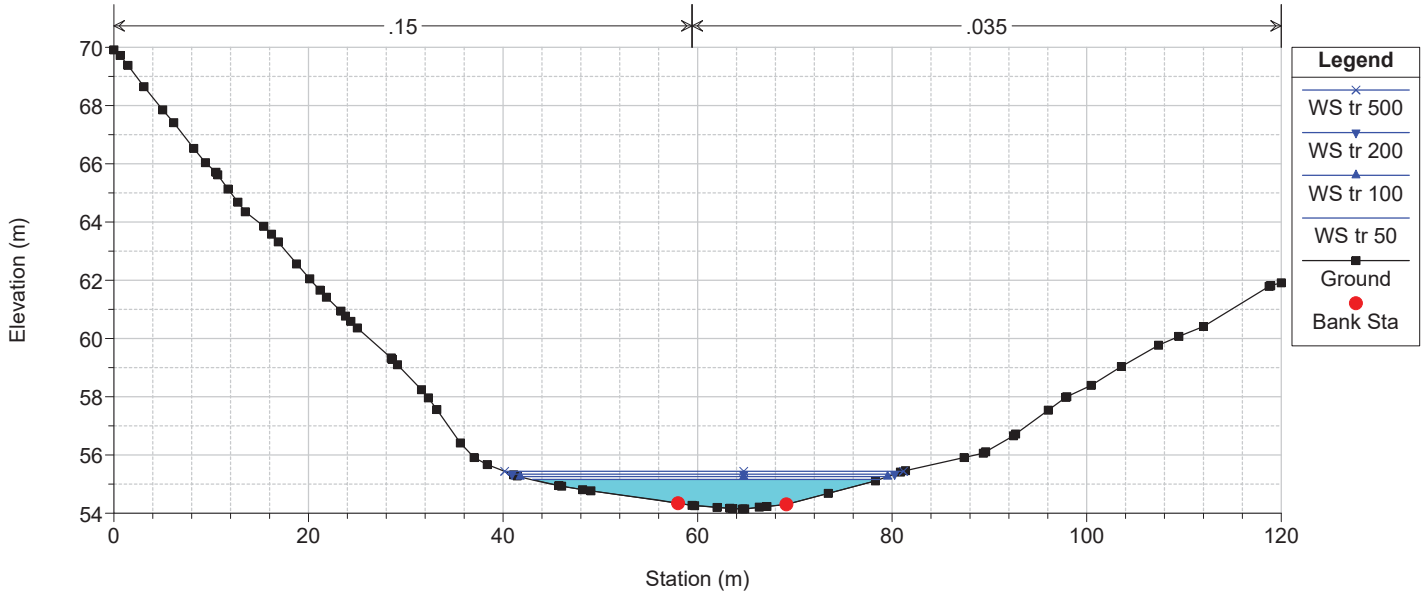
River = Rio Calabona Reach = Asta 2 RS = 2478.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

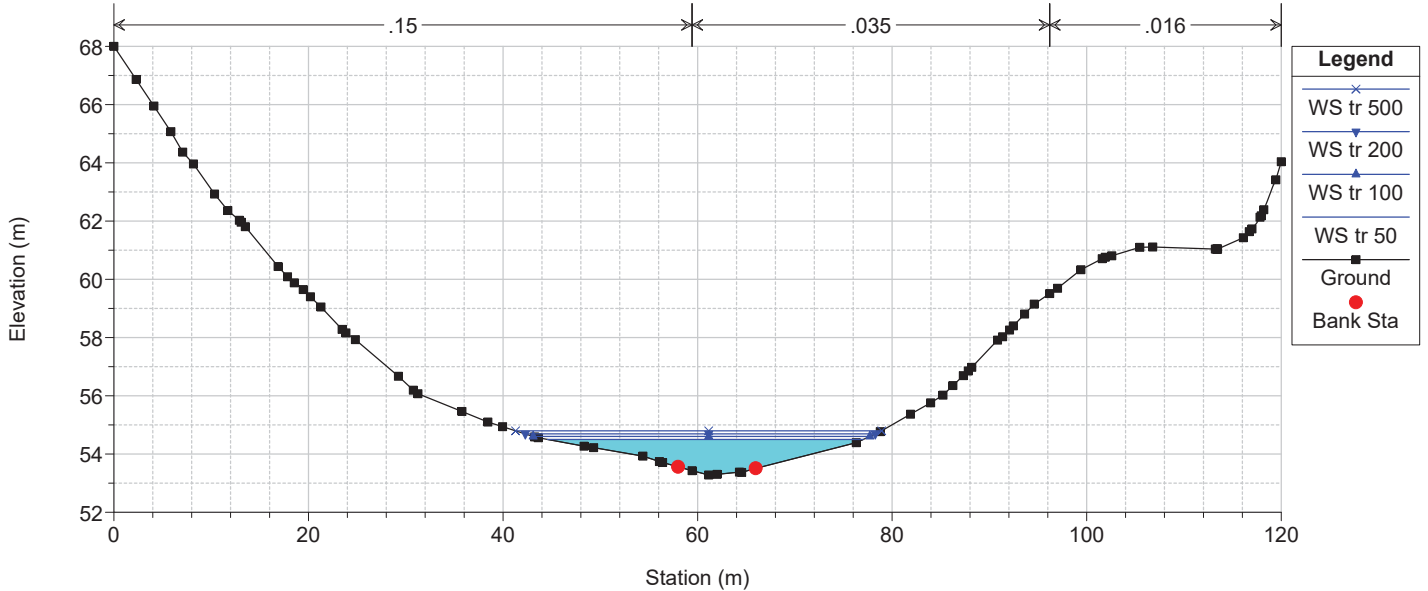
River = Rio Calabona Reach = Asta 2 RS = 2428.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

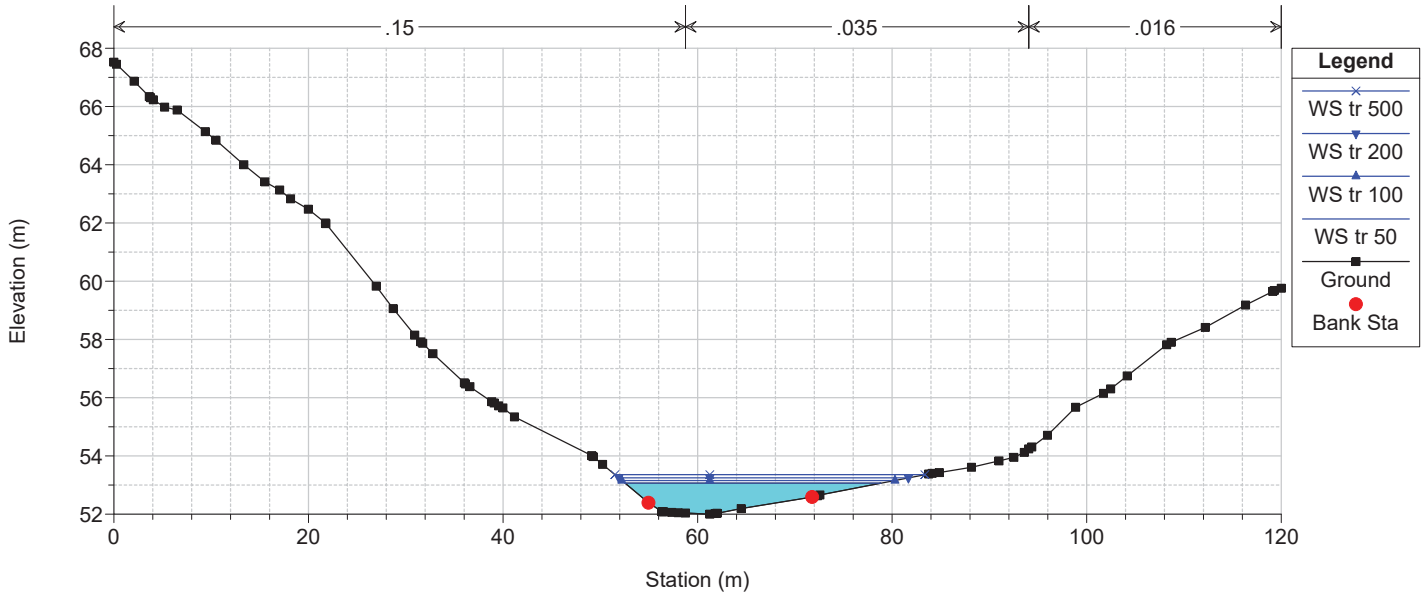
River = Rio Calabona Reach = Asta 2 RS = 2378.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

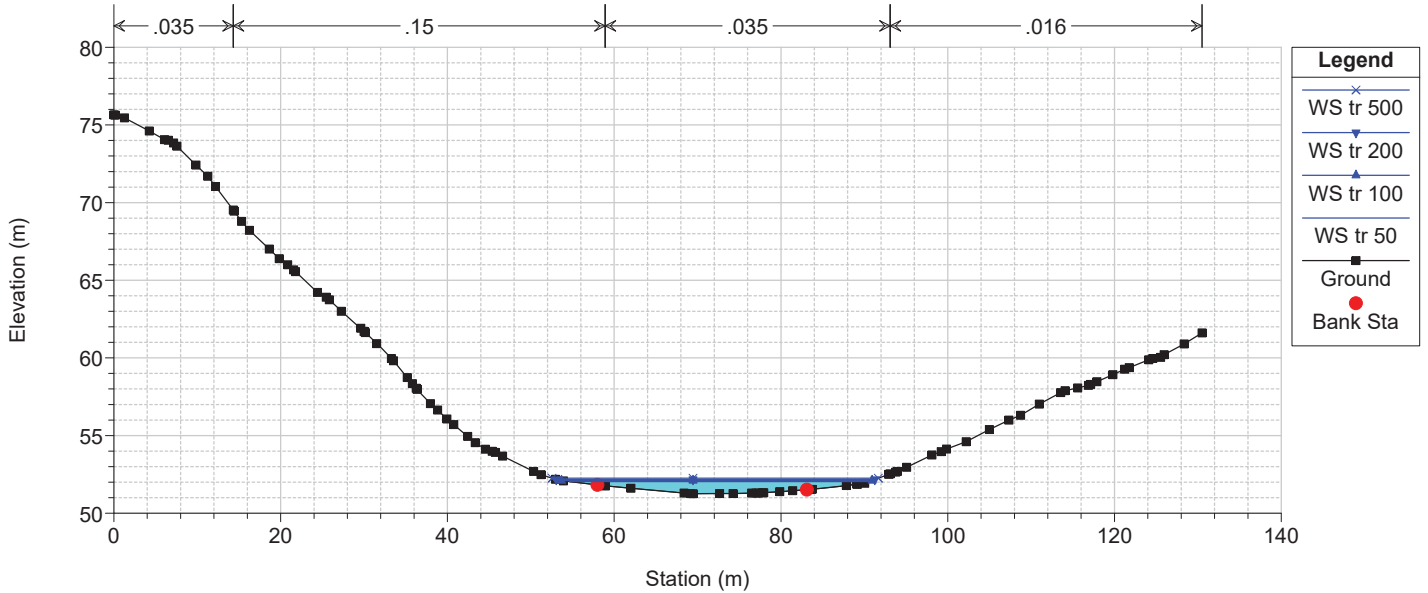
River = Rio Calabona Reach = Asta 2 RS = 2328.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

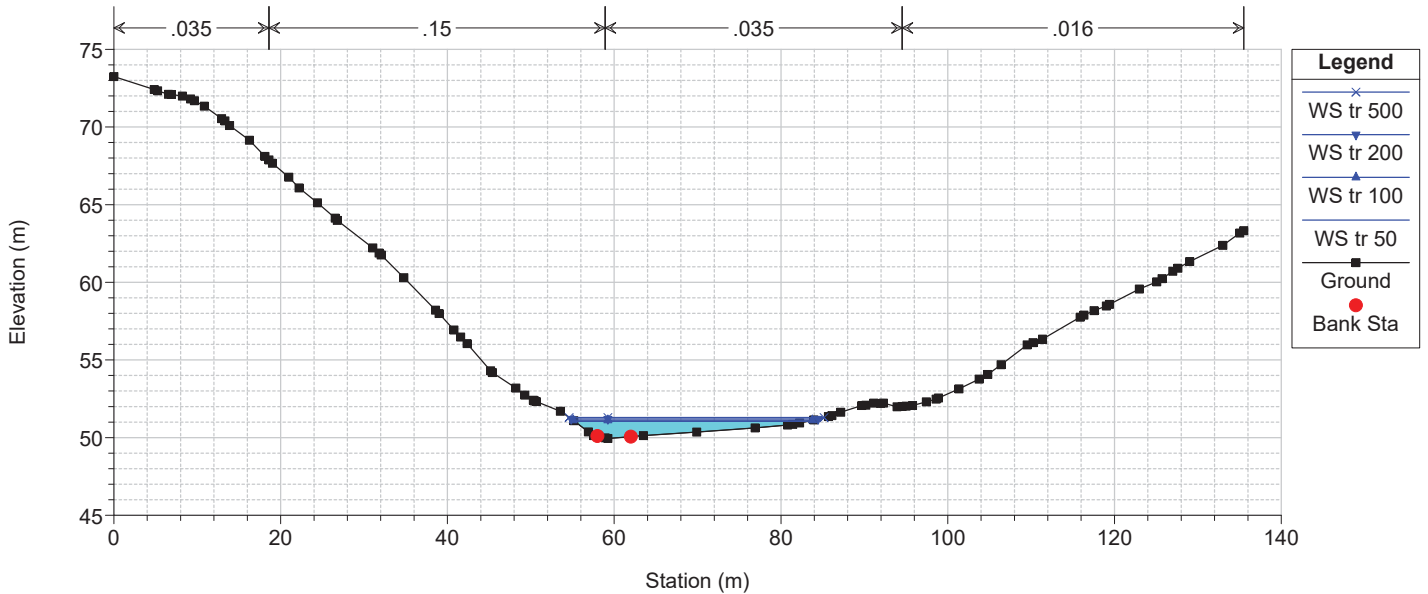
River = Rio Calabona Reach = Asta 2 RS = 2278.355 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

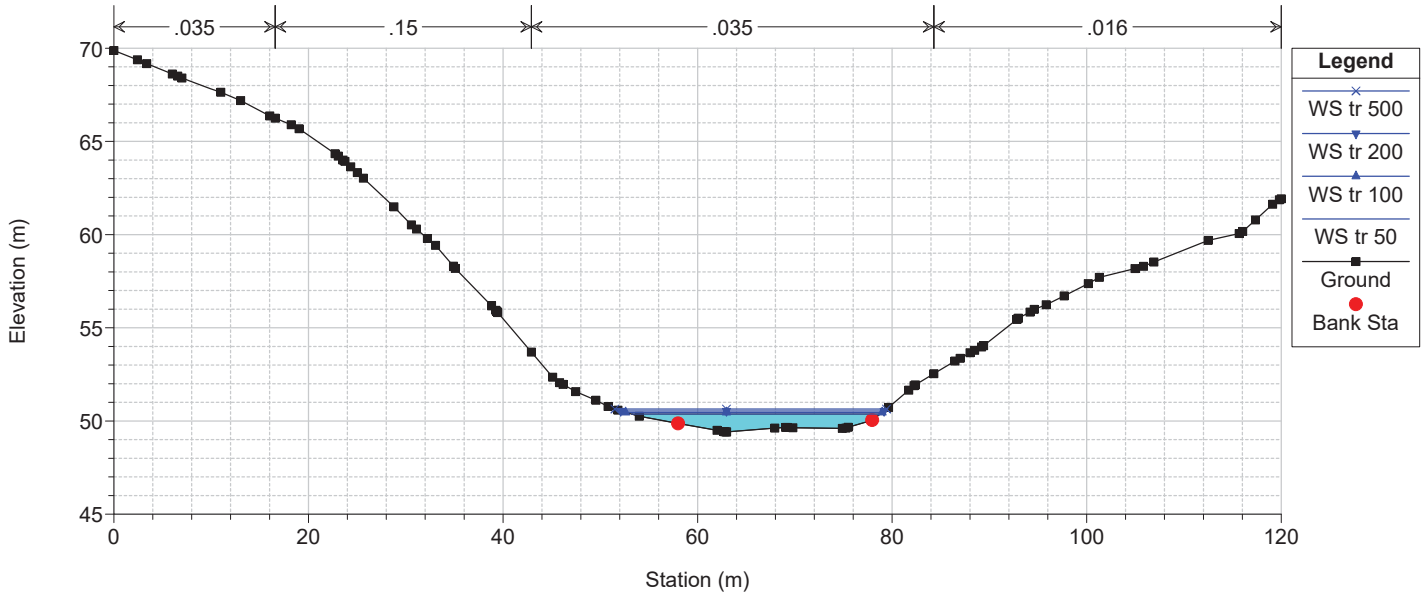
River = Rio Calabona Reach = Asta 2 RS = 2228.502 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

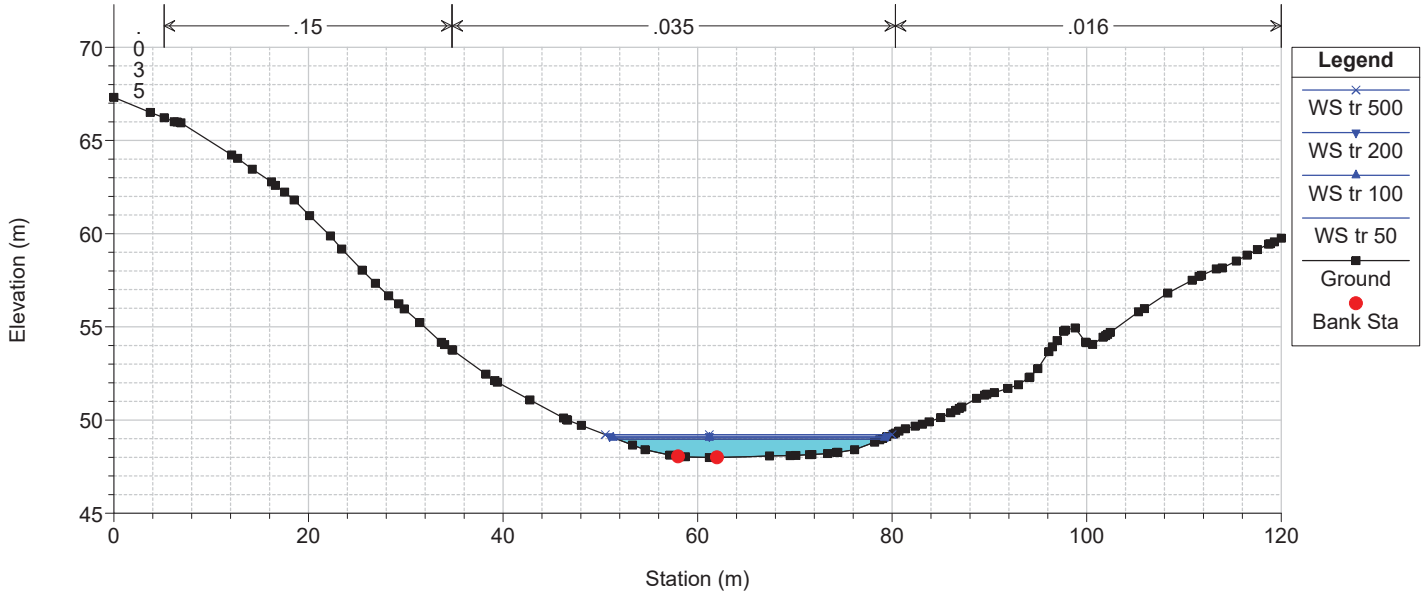
River = Rio Calabona Reach = Asta 2 RS = 2178.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

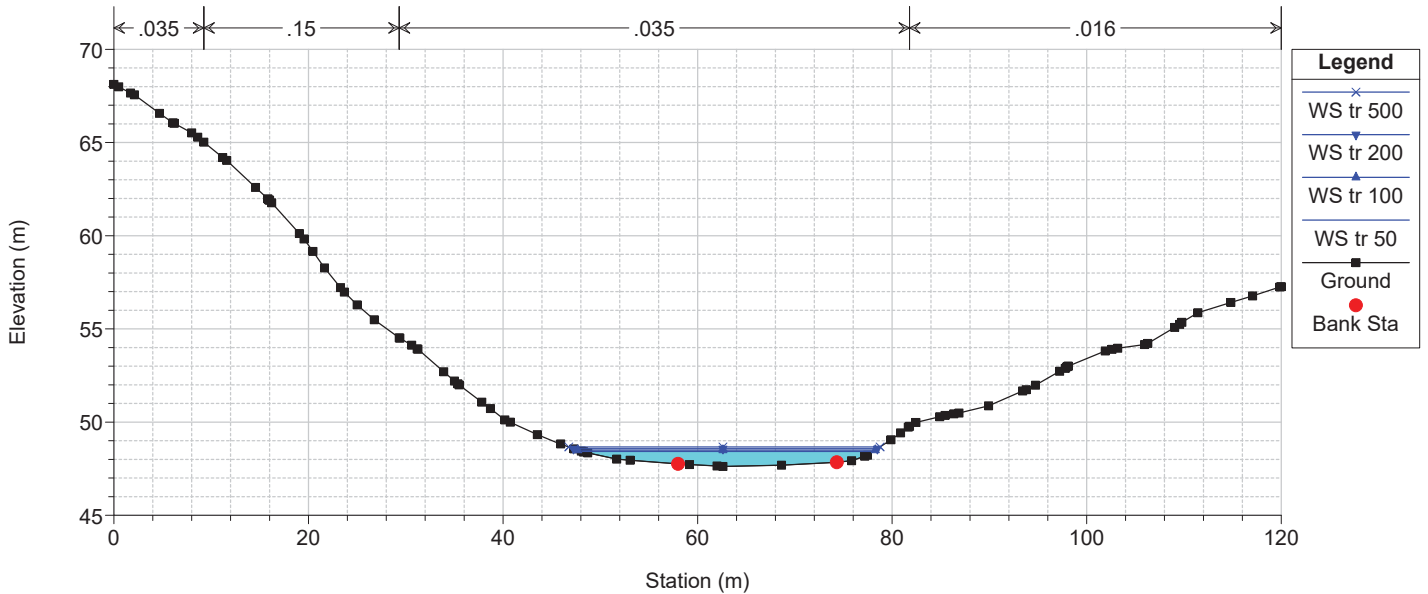
River = Rio Calabona Reach = Asta 2 RS = 2128.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

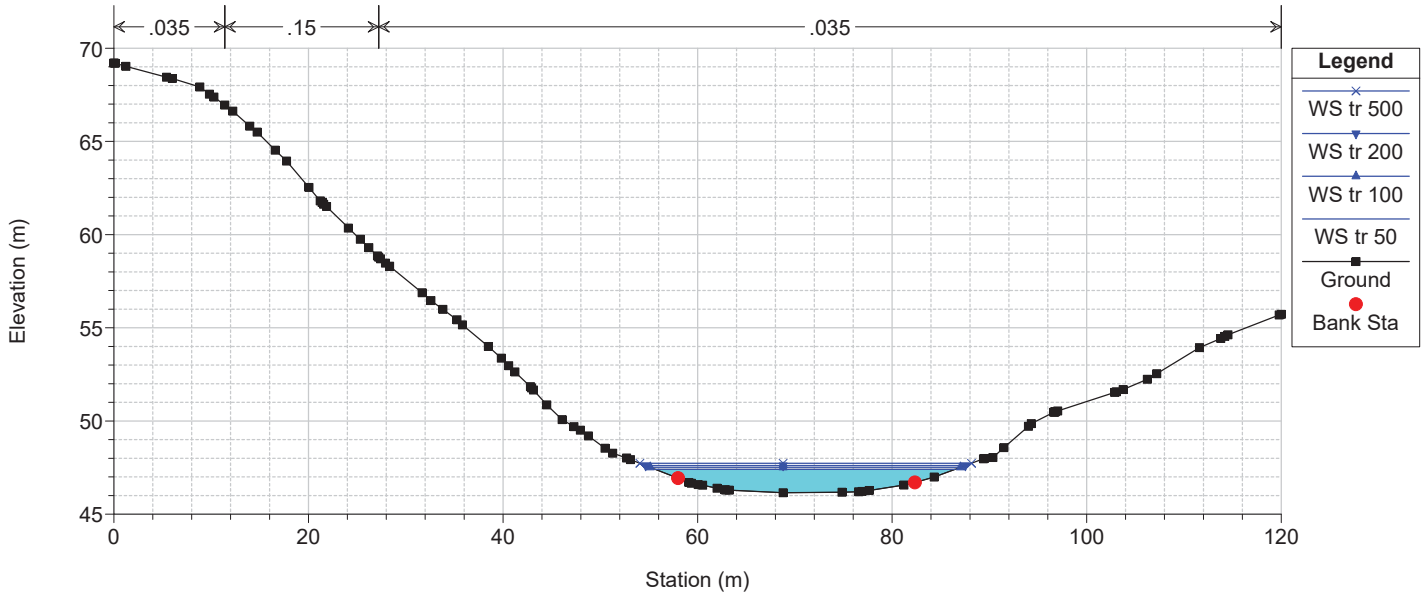
River = Rio Calabona Reach = Asta 2 RS = 2078.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

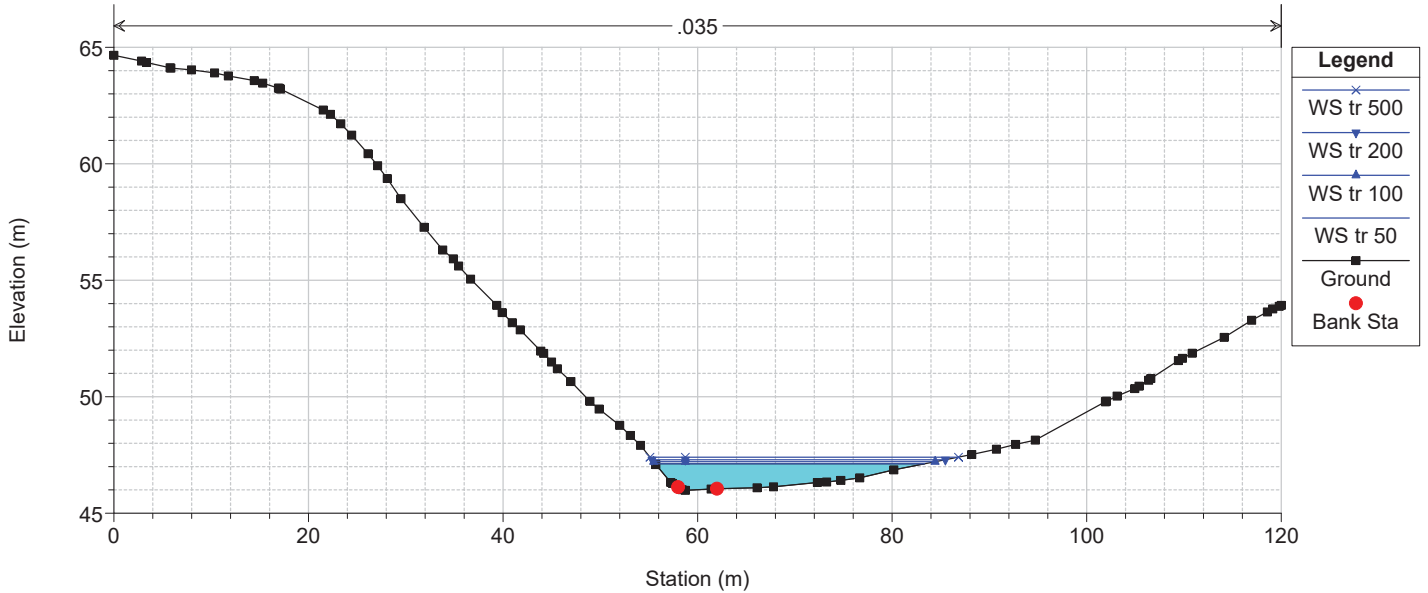
River = Rio Calabona Reach = Asta 2 RS = 2028.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

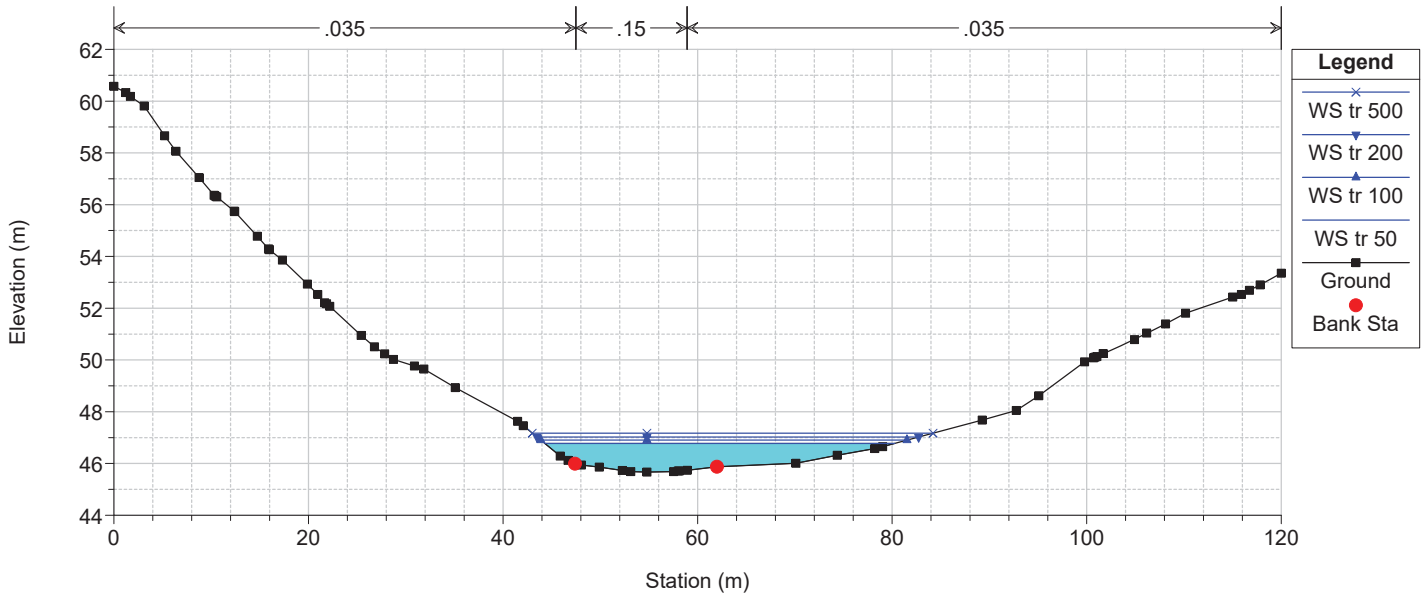
River = Rio Calabona Reach = Asta 2 RS = 1978.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

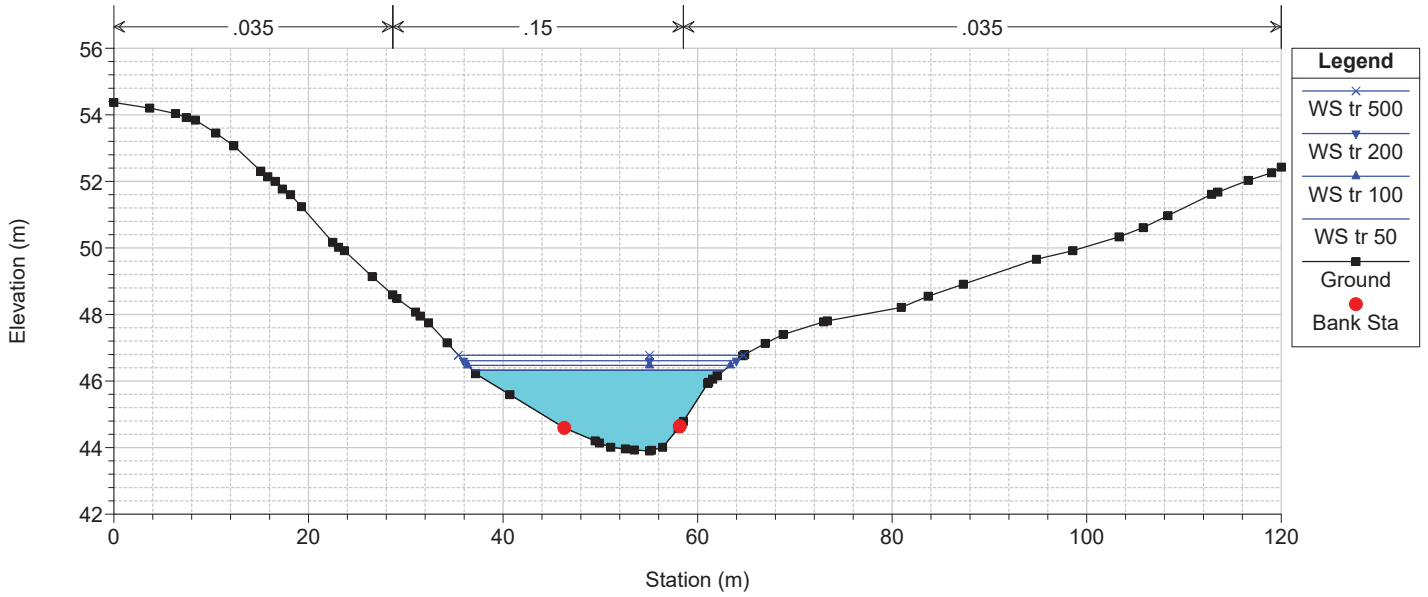
River = Rio Calabona Reach = Asta 2 RS = 1928.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

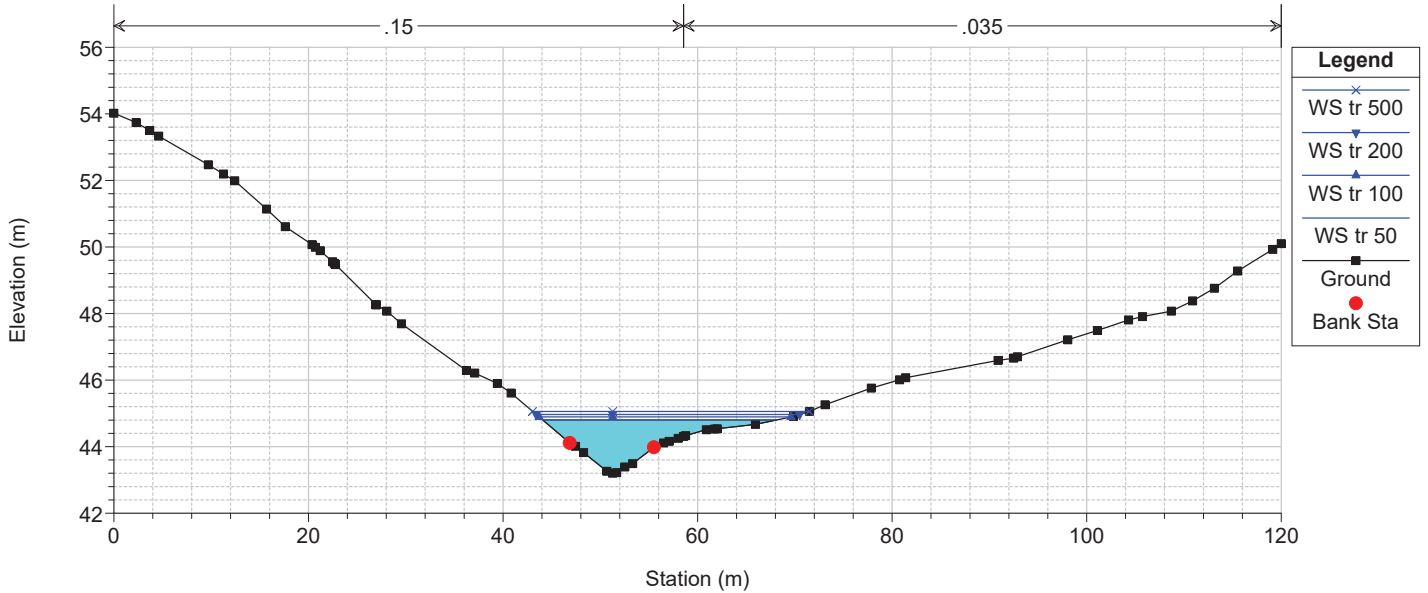
River = Rio Calabona Reach = Asta 2 RS = 1878.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

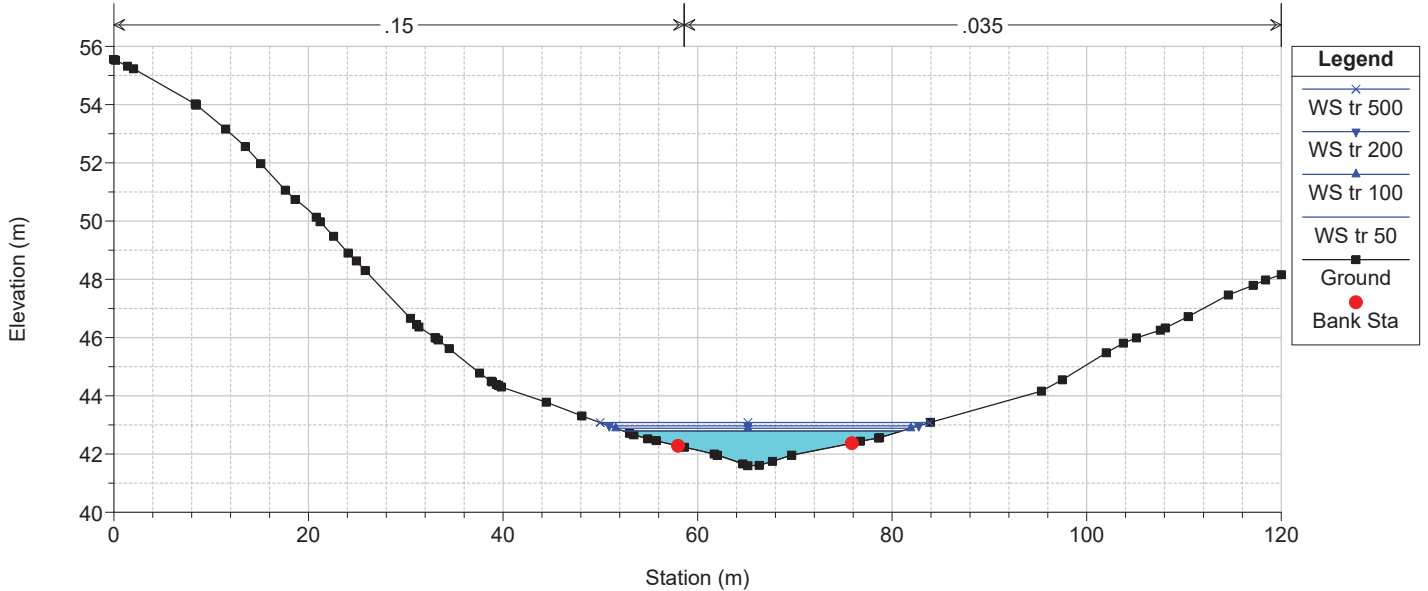
River = Rio Calabona Reach = Asta 2 RS = 1828.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

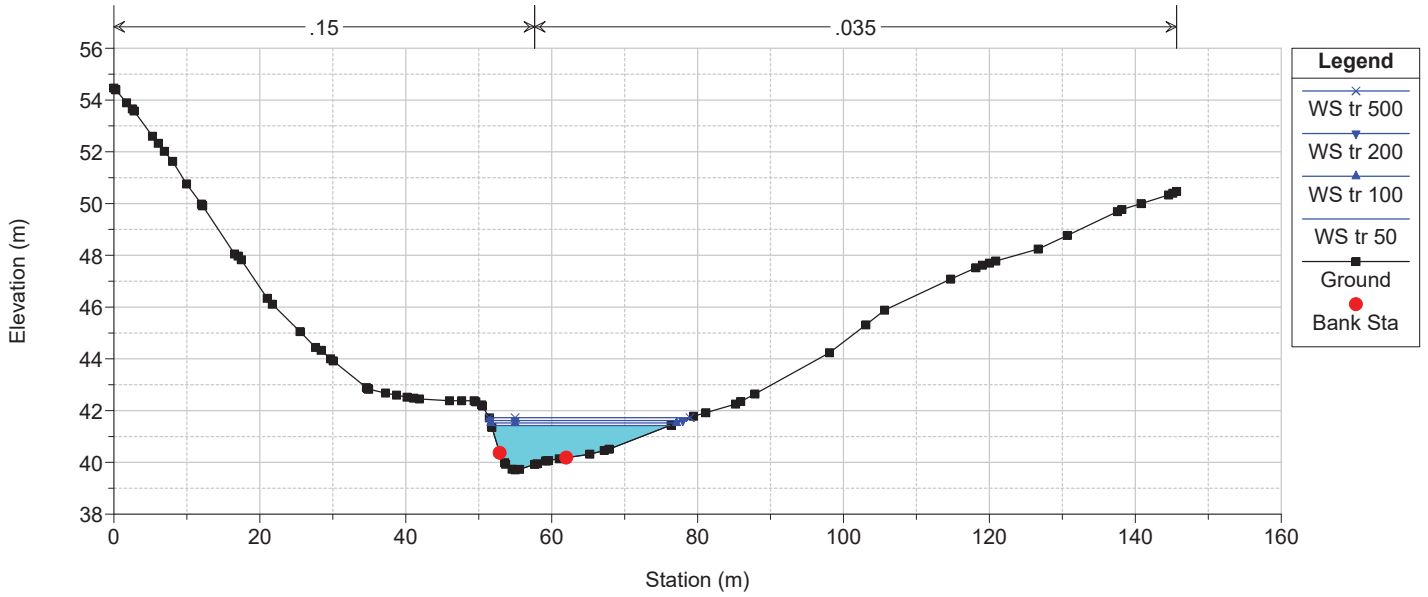
River = Rio Calabona Reach = Asta 2 RS = 1778.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

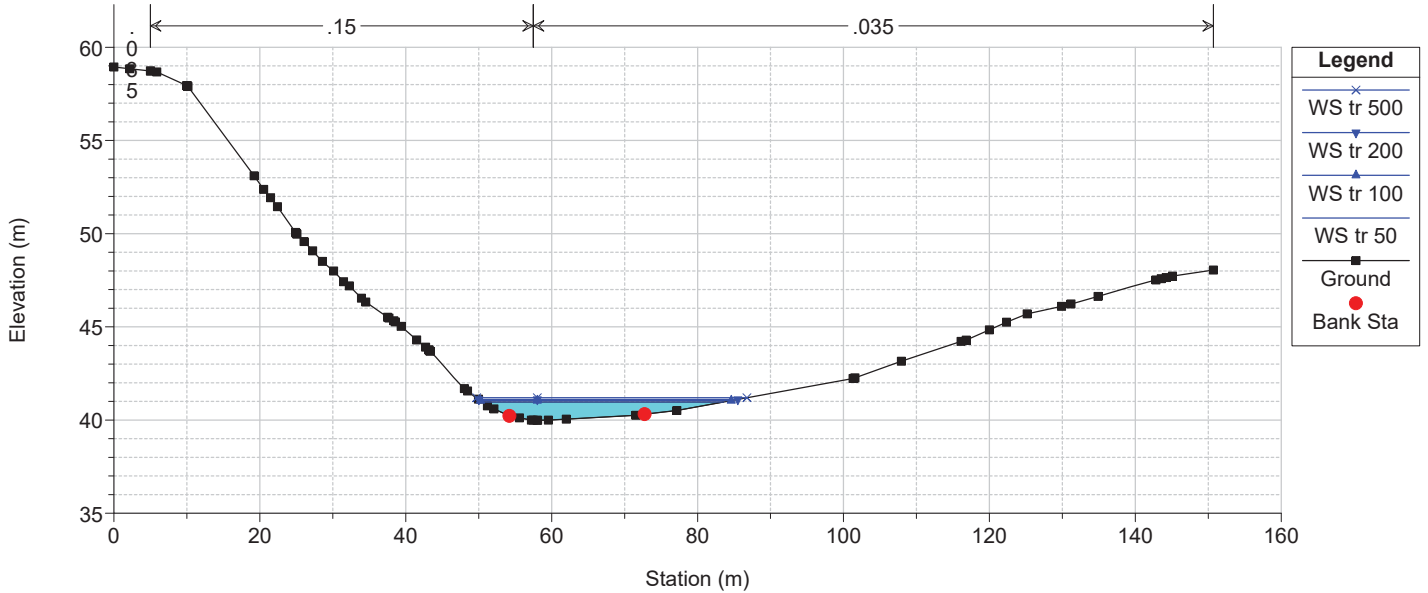
River = Rio Calabona Reach = Asta 2 RS = 1728.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

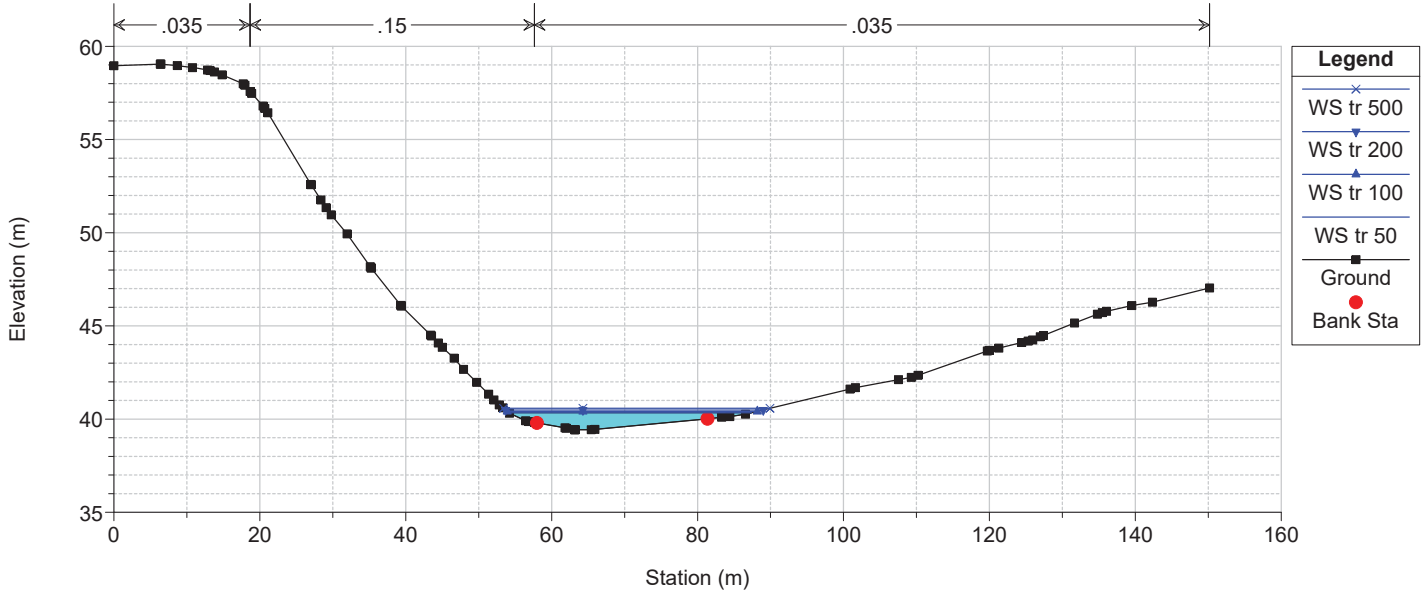
River = Rio Calabona Reach = Asta 2 RS = 1678.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

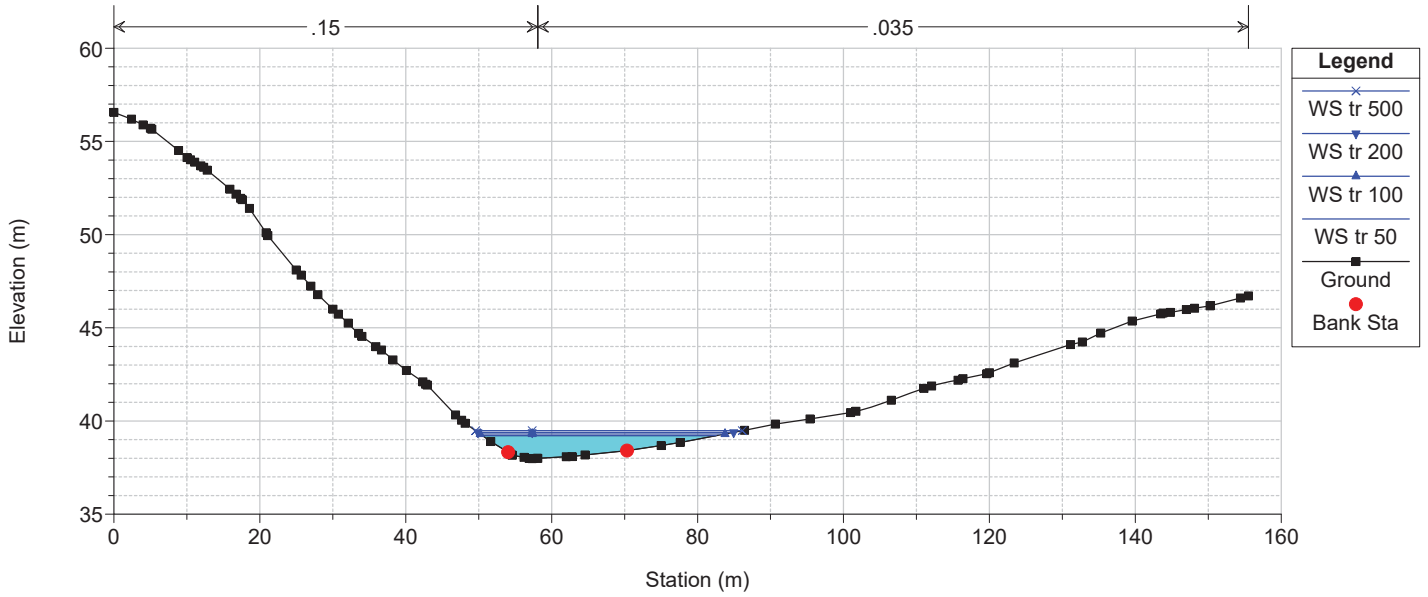
River = Rio Calabona Reach = Asta 2 RS = 1628.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

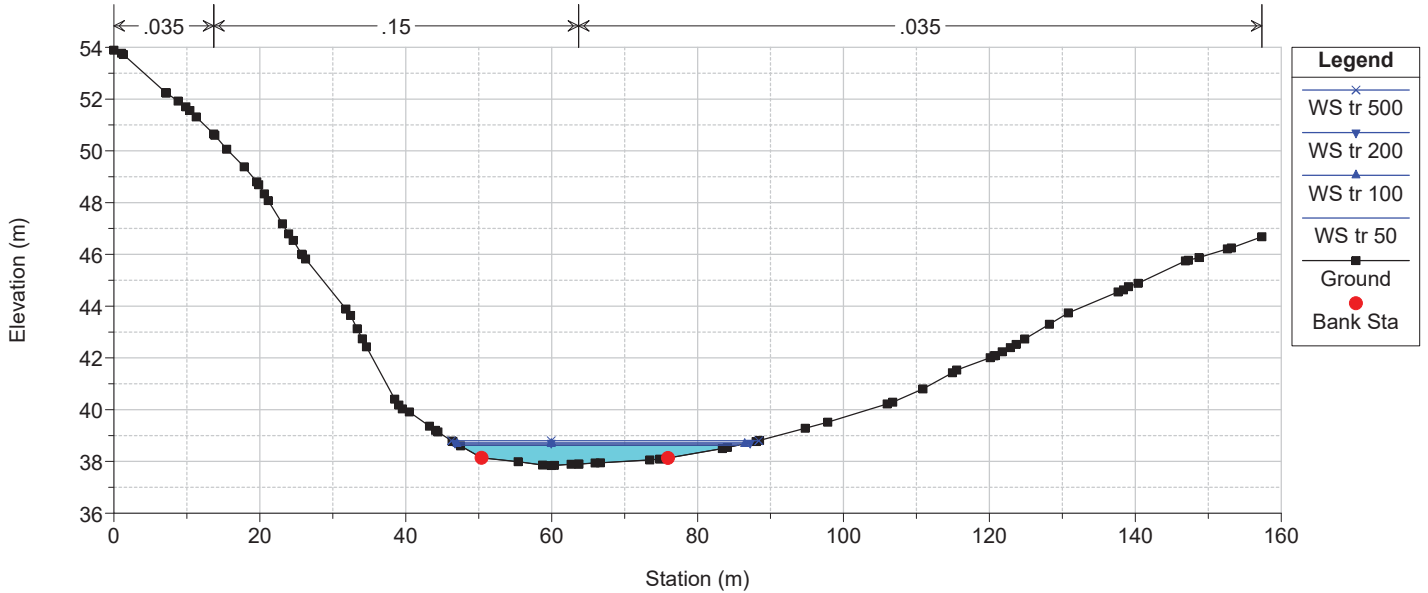
River = Rio Calabona Reach = Asta 2 RS = 1578.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

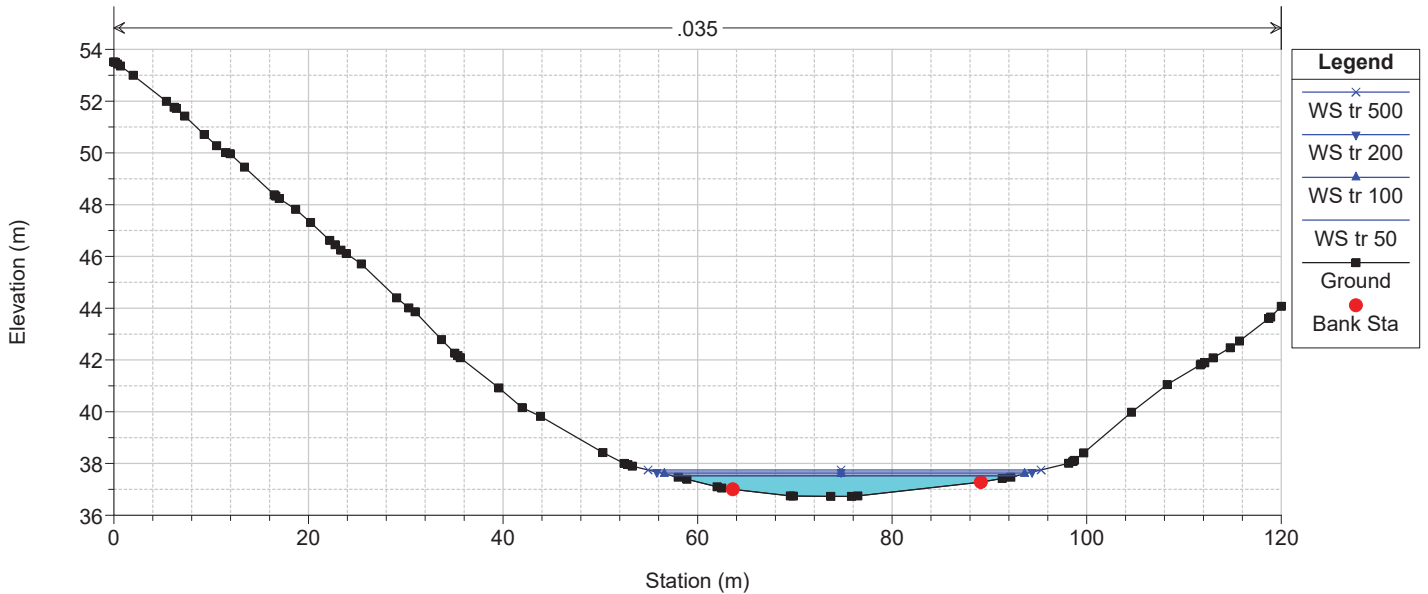
River = Rio Calabona Reach = Asta 2 RS = 1534.492 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

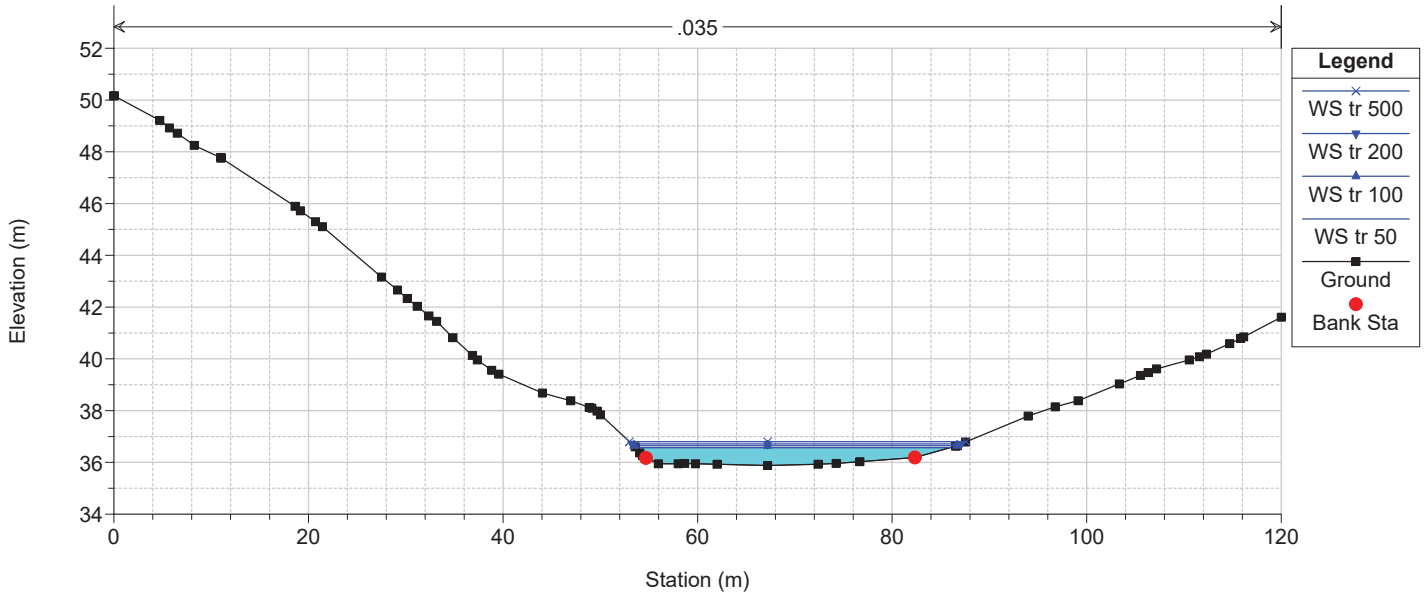
River = Rio Calabona Reach = Asta 2 RS = 1478.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

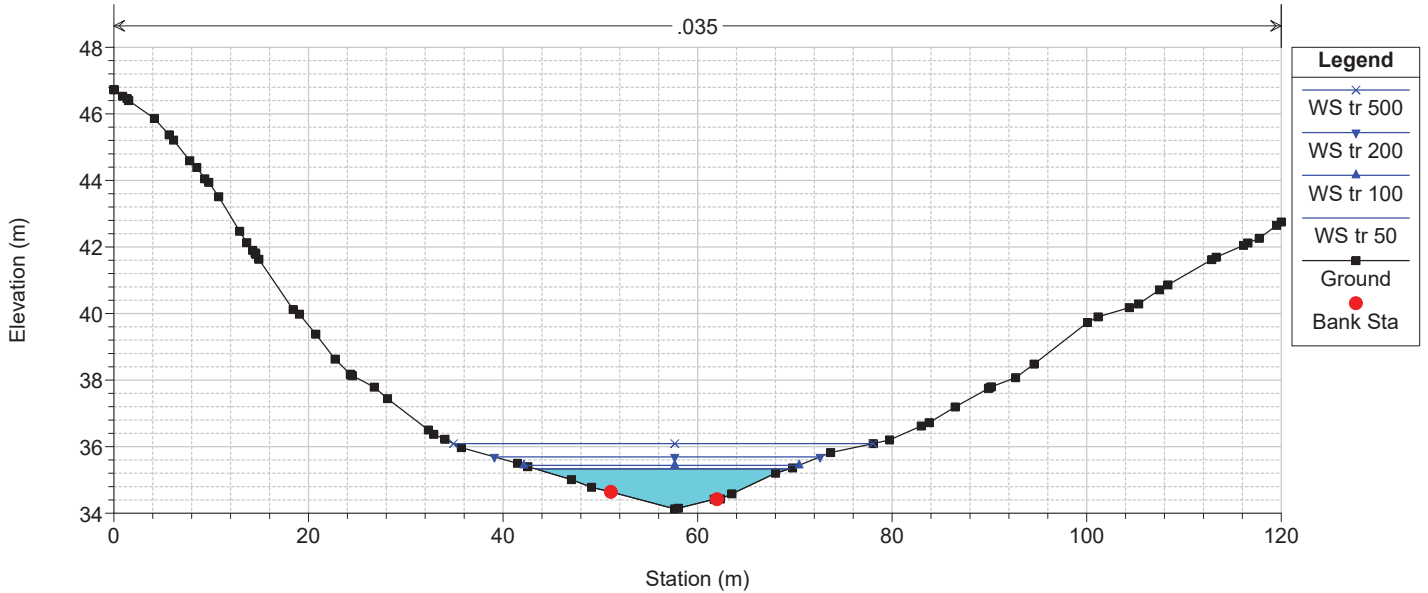
River = Rio Calabona Reach = Asta 2 RS = 1428.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

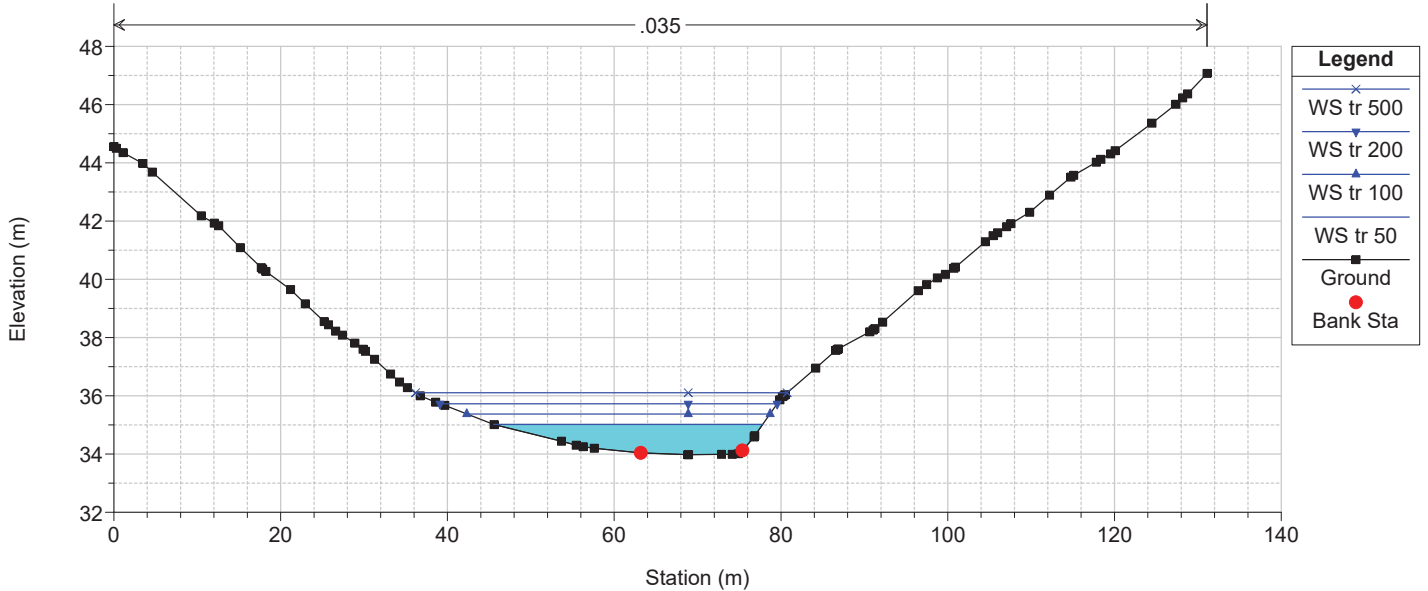
River = Rio Calabona Reach = Asta 2 RS = 1378.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

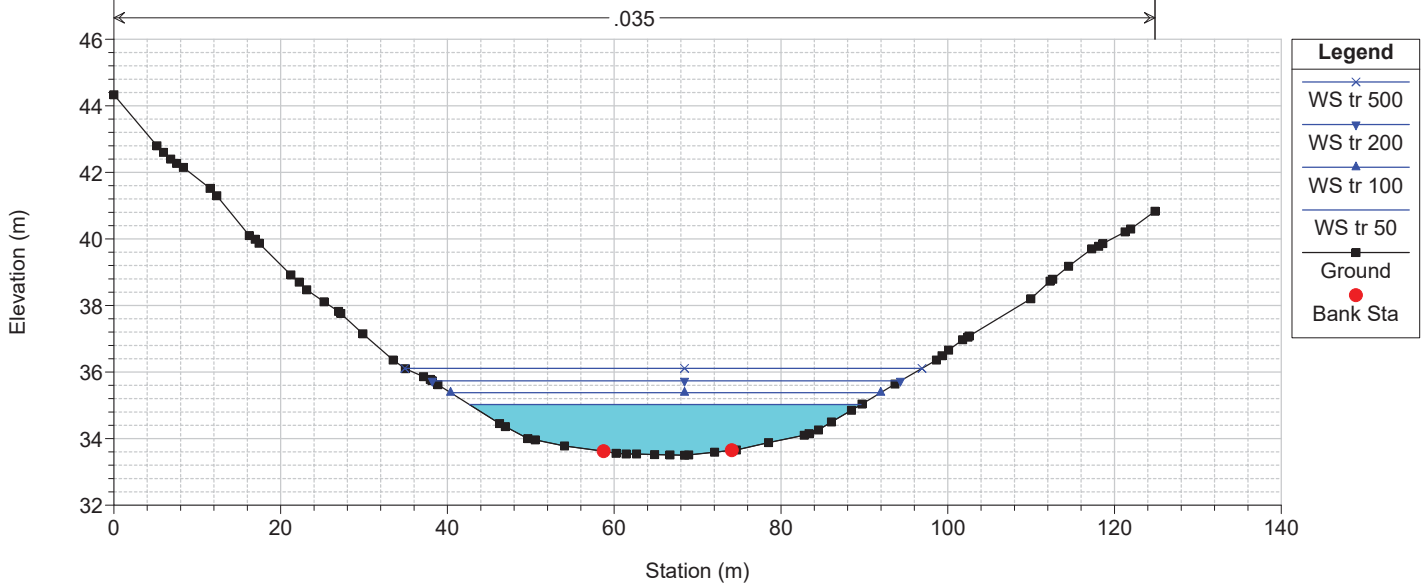
River = Rio Calabona Reach = Asta 2 RS = 1333.456 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

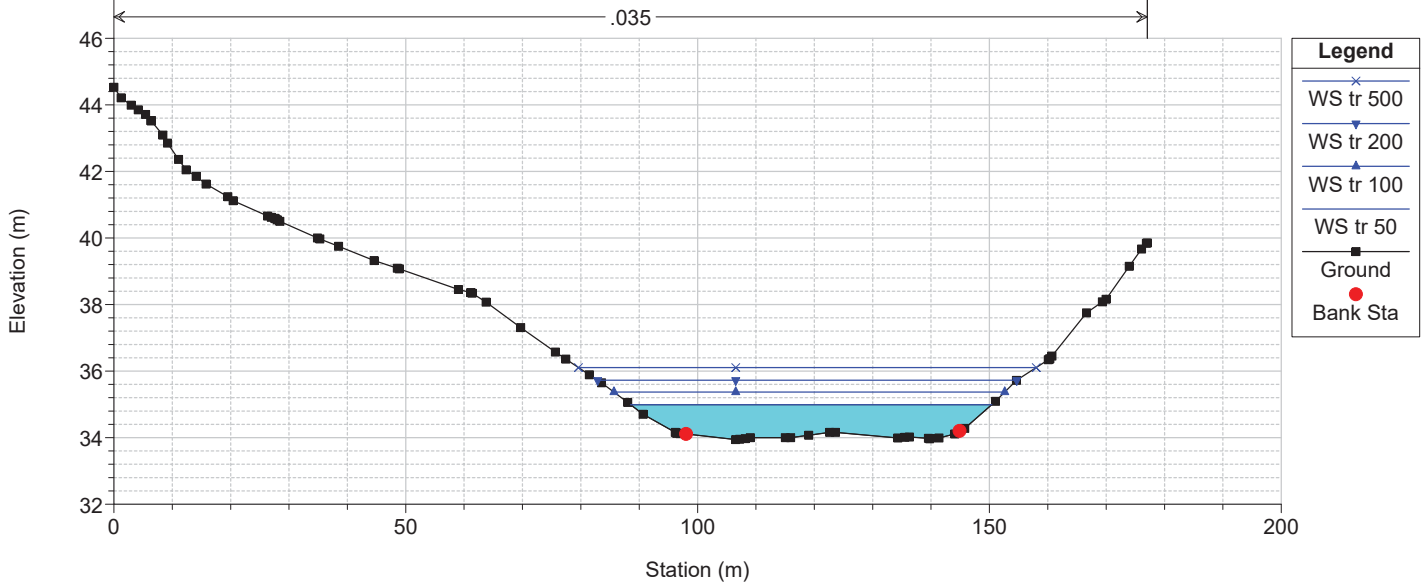
River = Rio Calabona Reach = Asta 2 RS = 1273.433 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

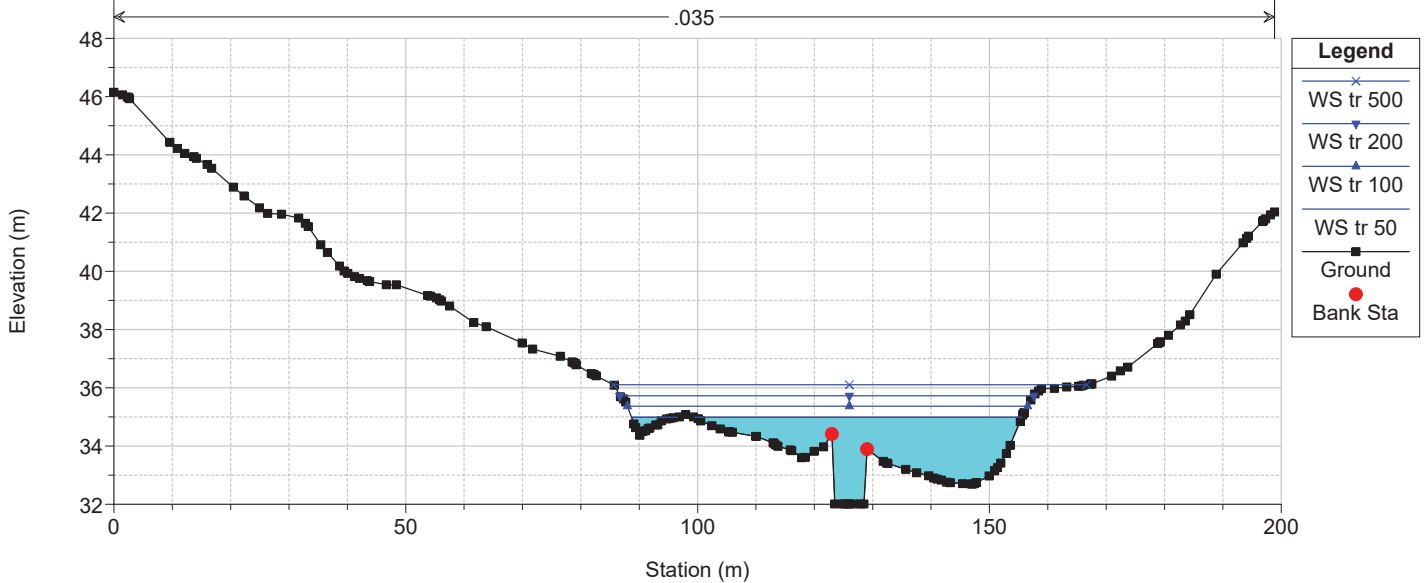
River = Rio Calabona Reach = Asta 2 RS = 1228.216 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

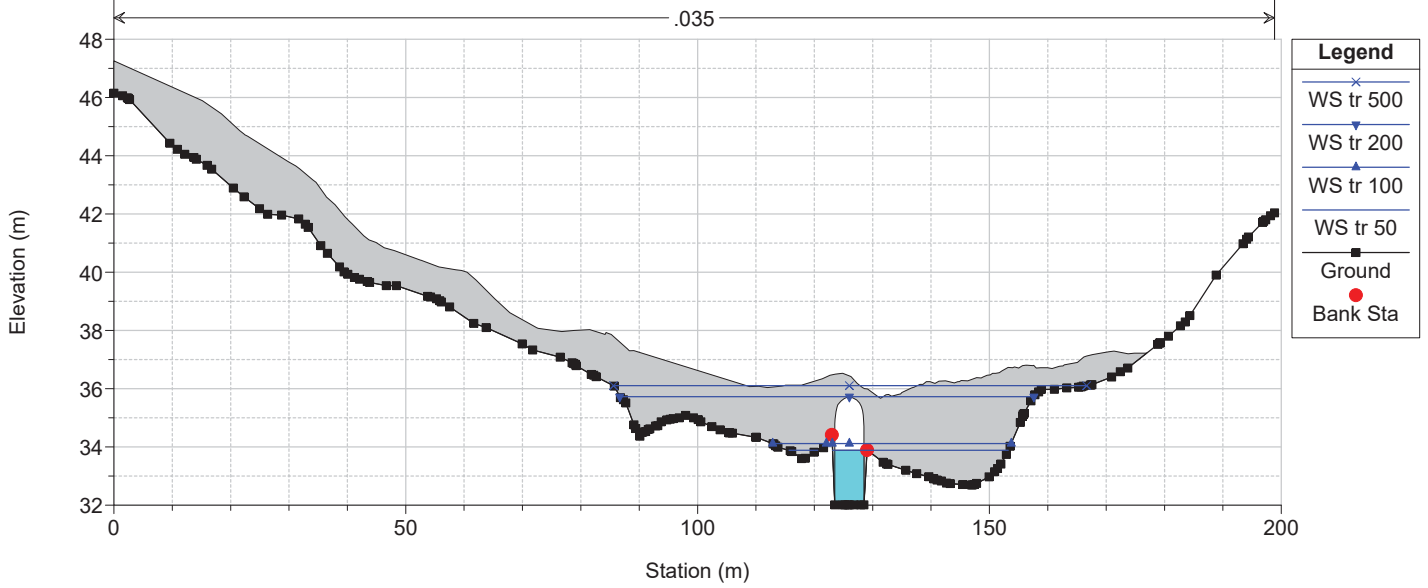
River = Rio Calabona Reach = Asta 2 RS = 1185.404 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

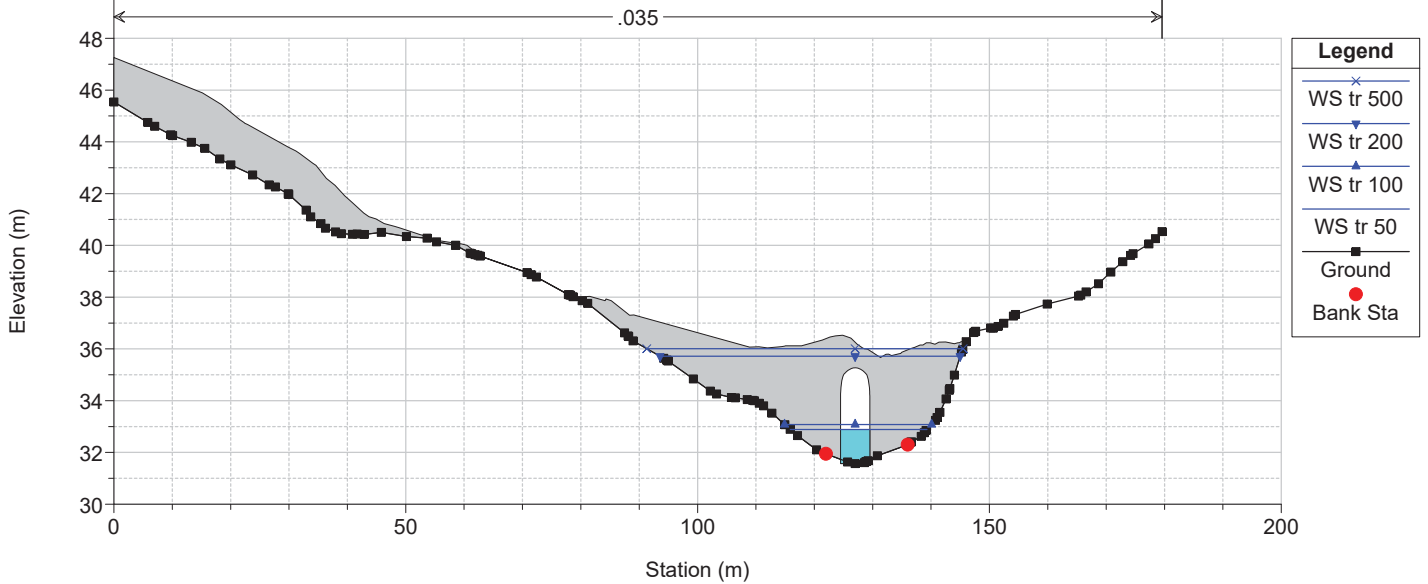
River = Rio Calabona Reach = Asta 2 RS = 1175.988 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

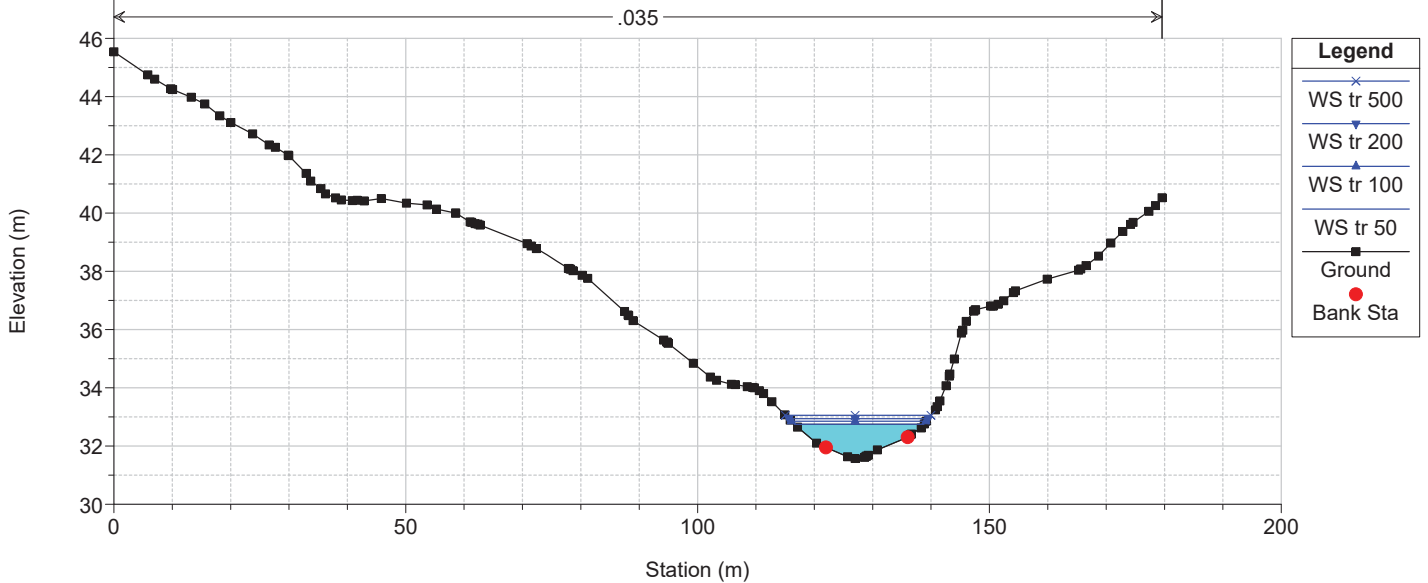
River = Rio Calabona Reach = Asta 2 RS = 1175.988 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

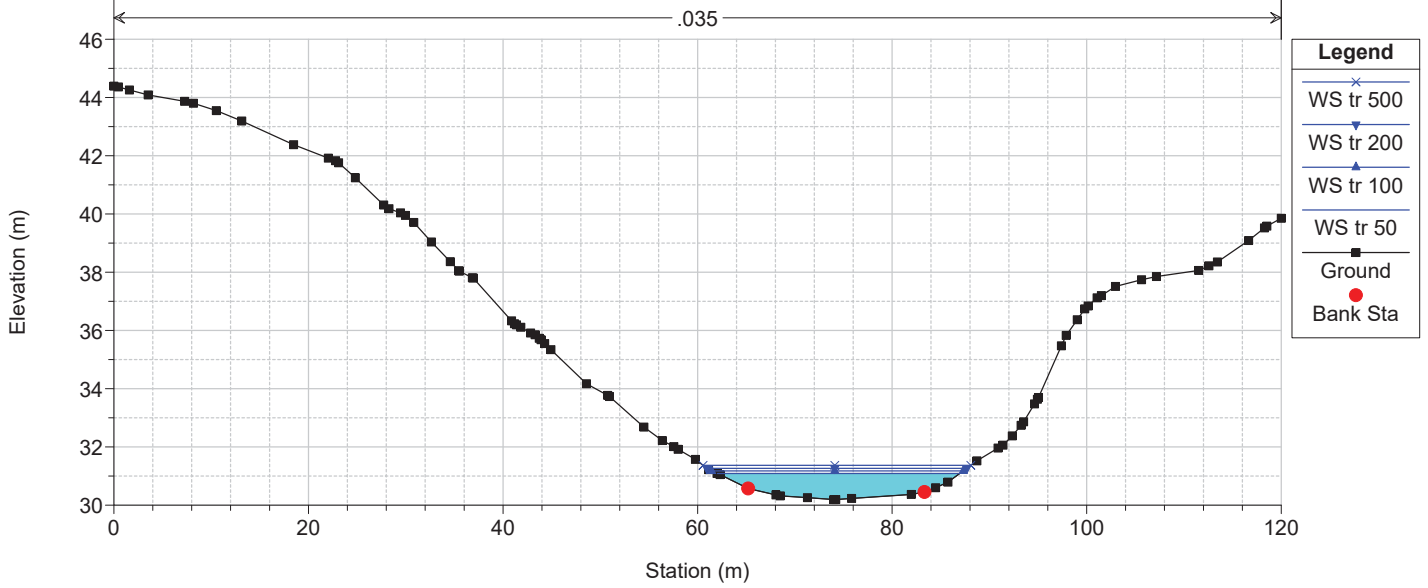
River = Rio Calabona Reach = Asta 2 RS = 1163.703 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

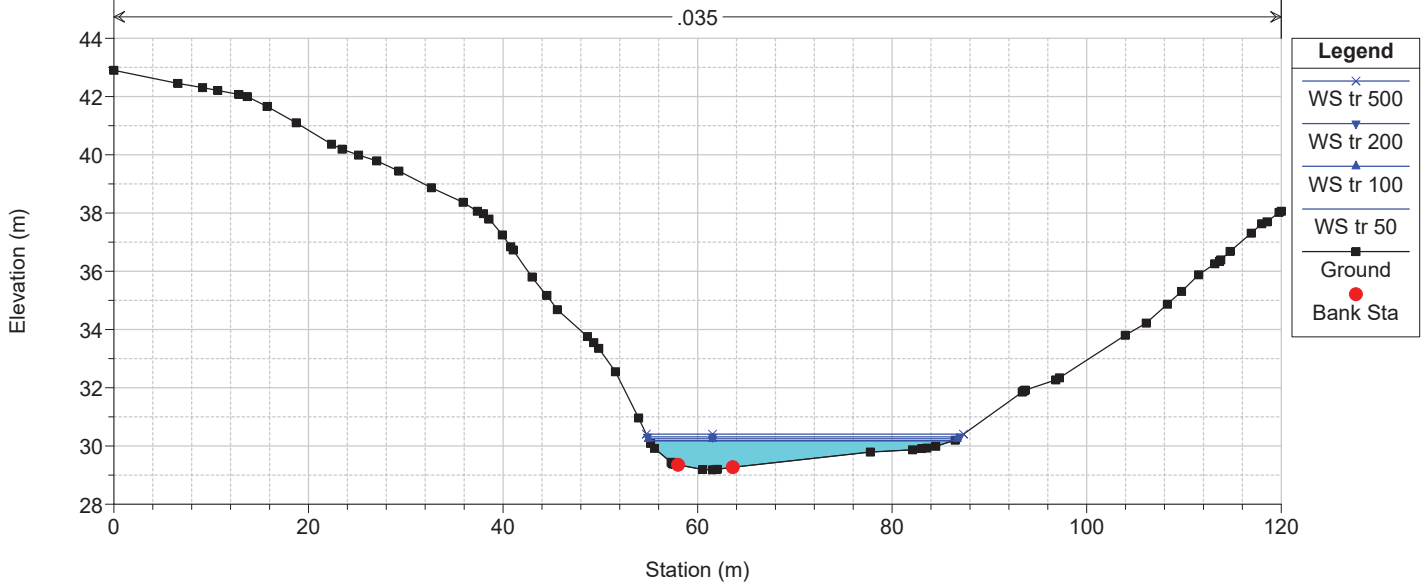
River = Rio Calabona Reach = Asta 2 RS = 1128.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

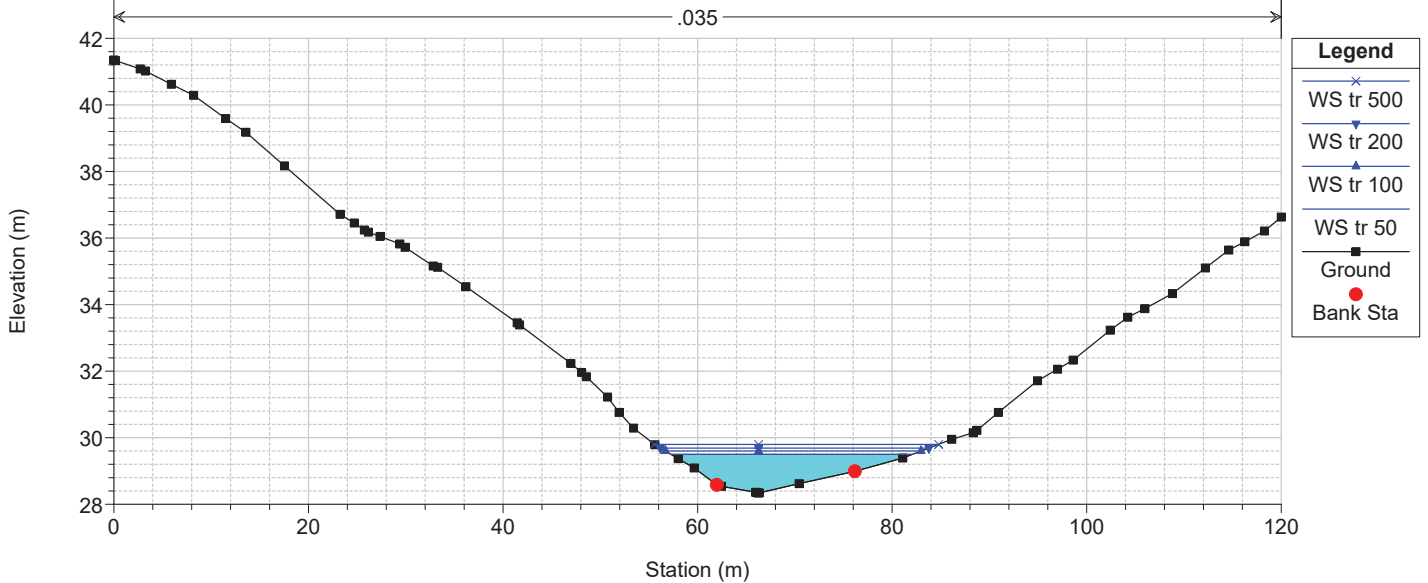
River = Rio Calabona Reach = Asta 2 RS = 1078.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

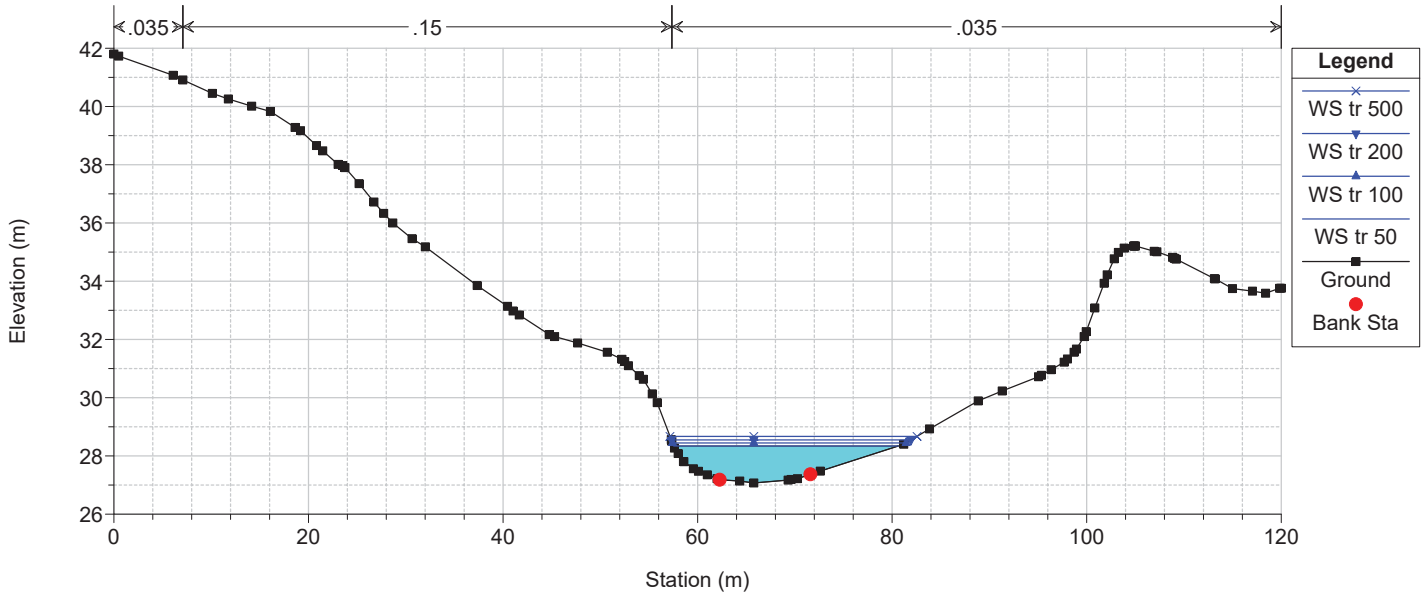
River = Rio Calabona Reach = Asta 2 RS = 1028.093 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

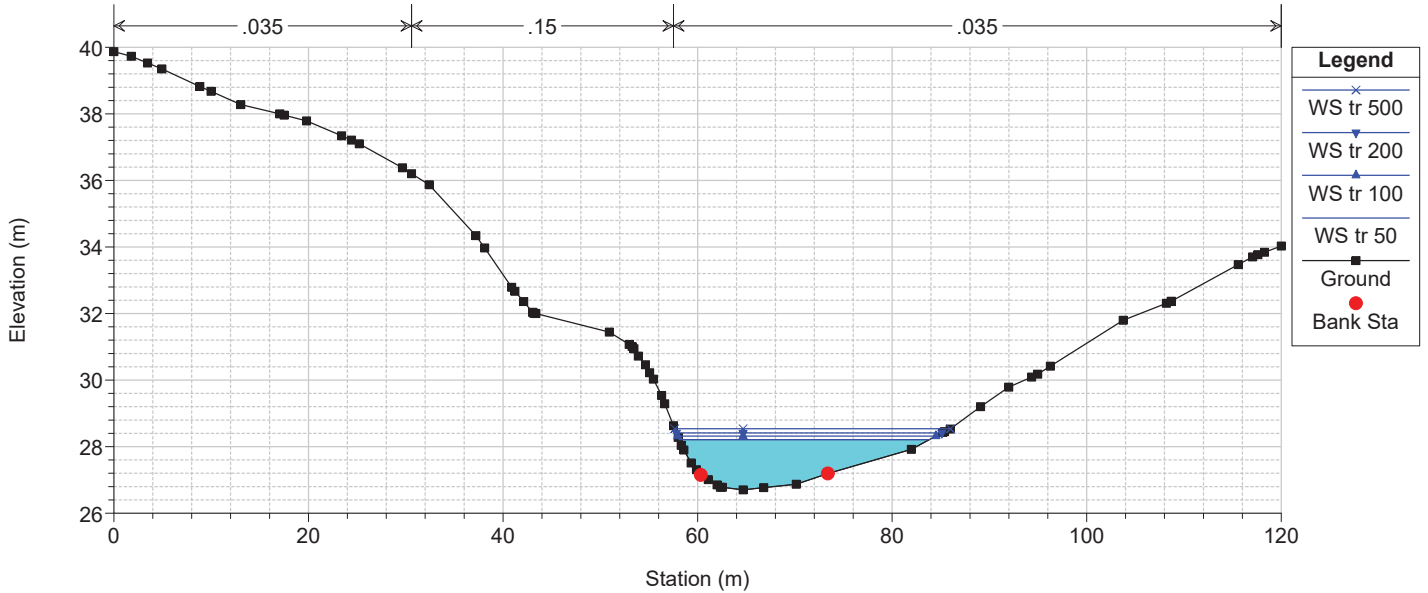
River = Rio Calabona Reach = Asta 2 RS = 978.0931 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

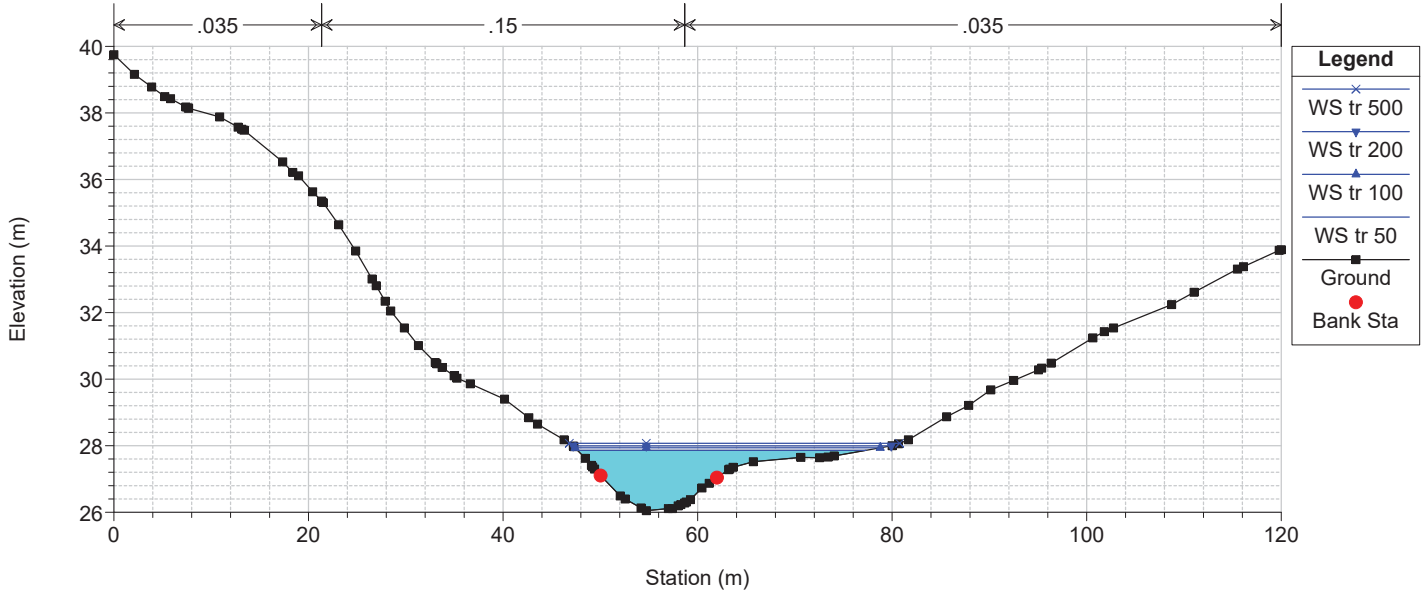
River = Rio Calabona Reach = Asta 2 RS = 928.0933 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

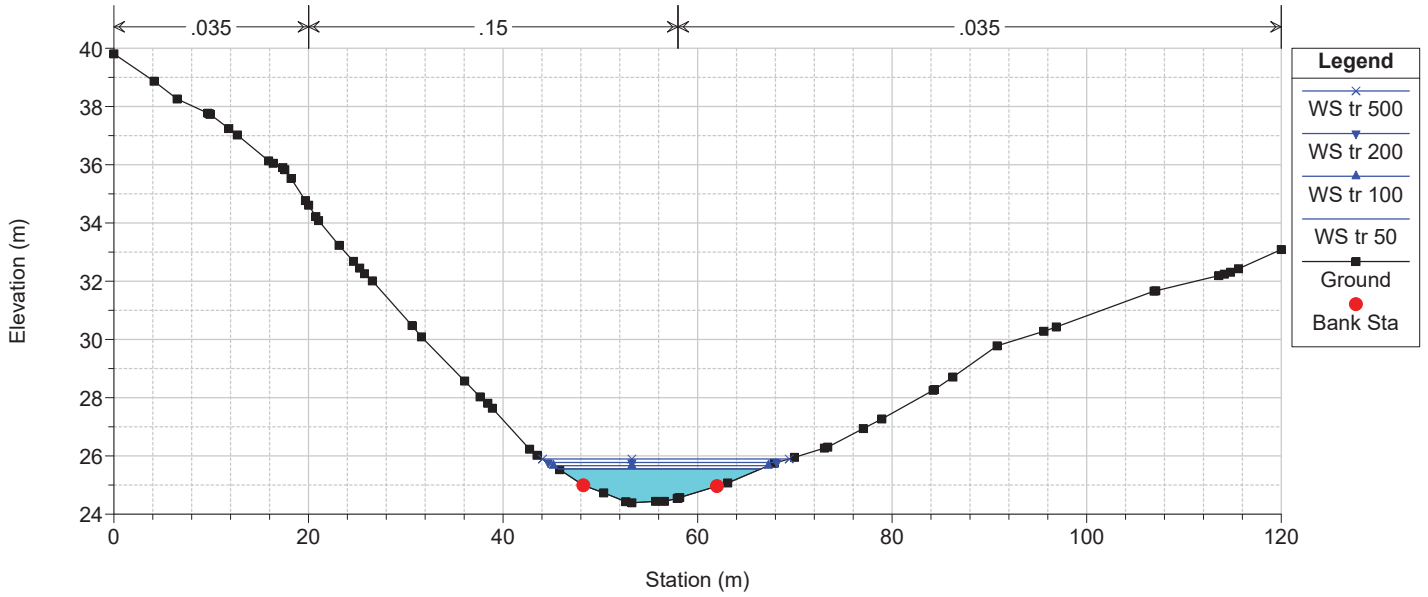
River = Rio Calabona Reach = Asta 2 RS = 878.0931 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

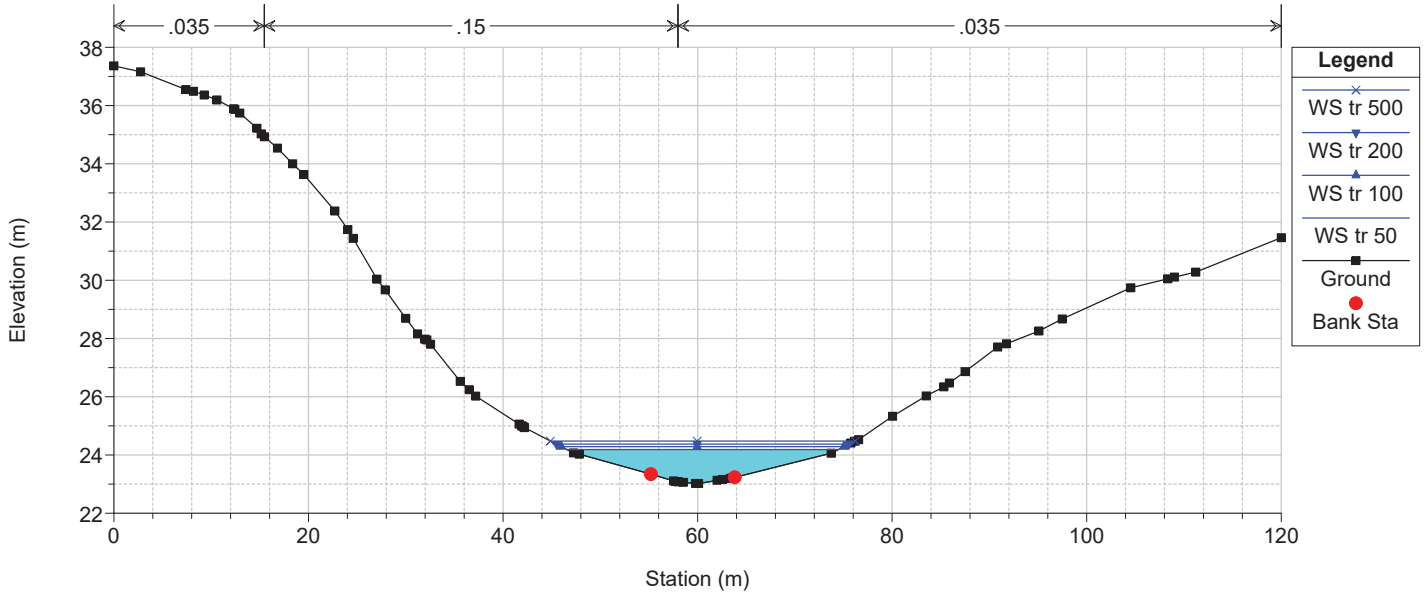
River = Rio Calabona Reach = Asta 2 RS = 828.0932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

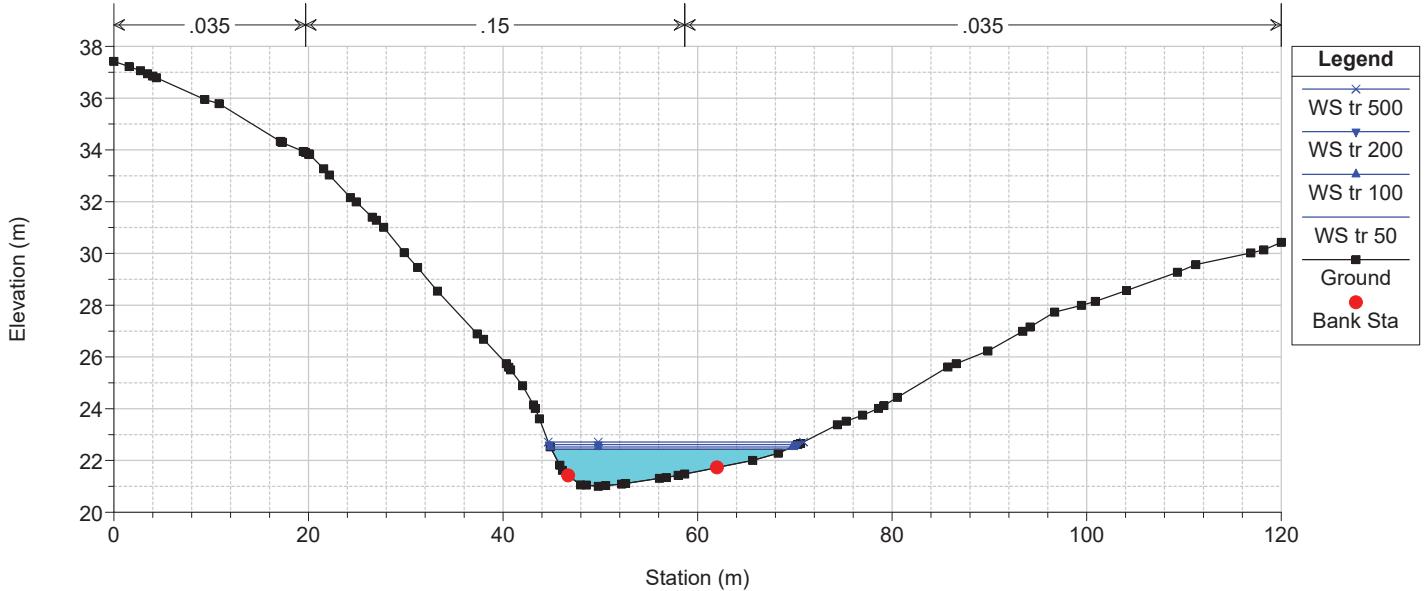
River = Rio Calabona Reach = Asta 2 RS = 778.0932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

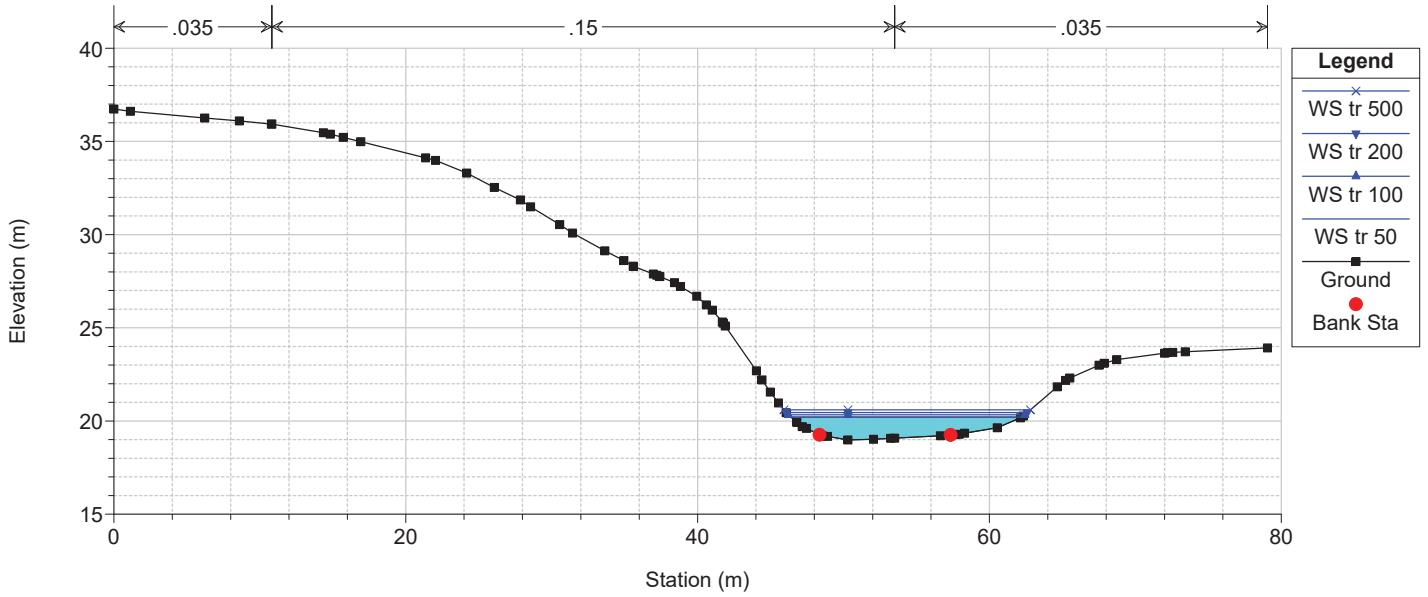
River = Rio Calabona Reach = Asta 2 RS = 728.0932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

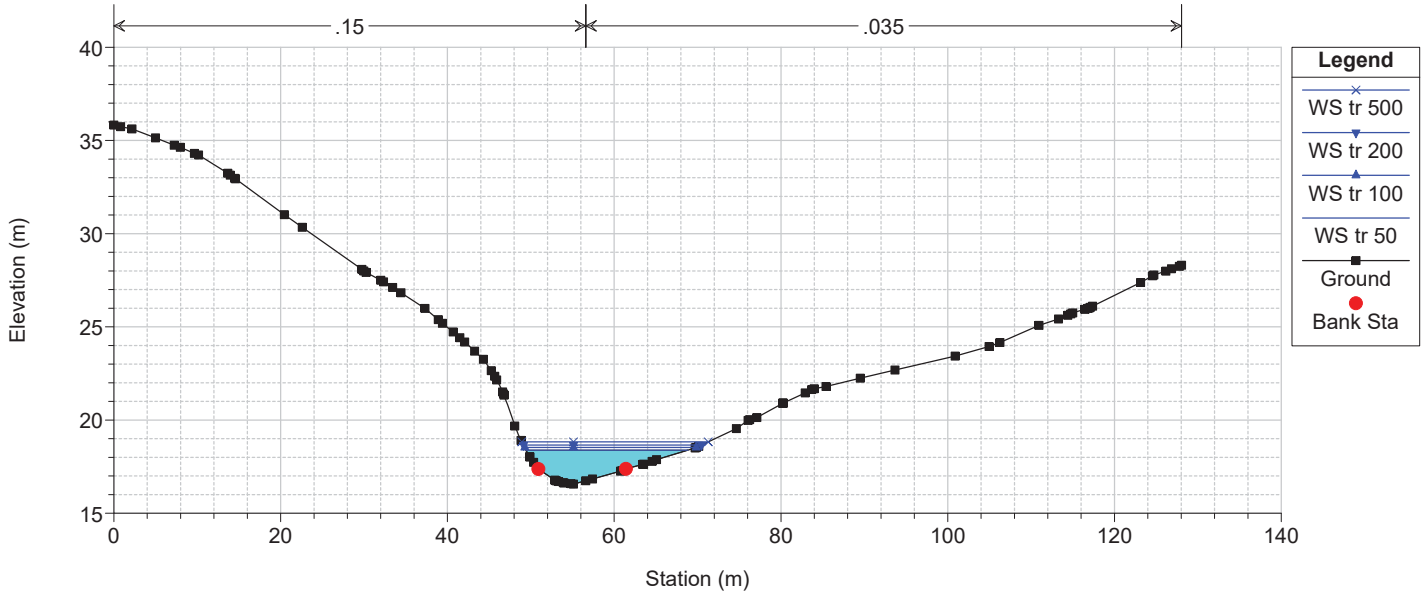
River = Rio Calabona Reach = Asta 2 RS = 664.3973 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

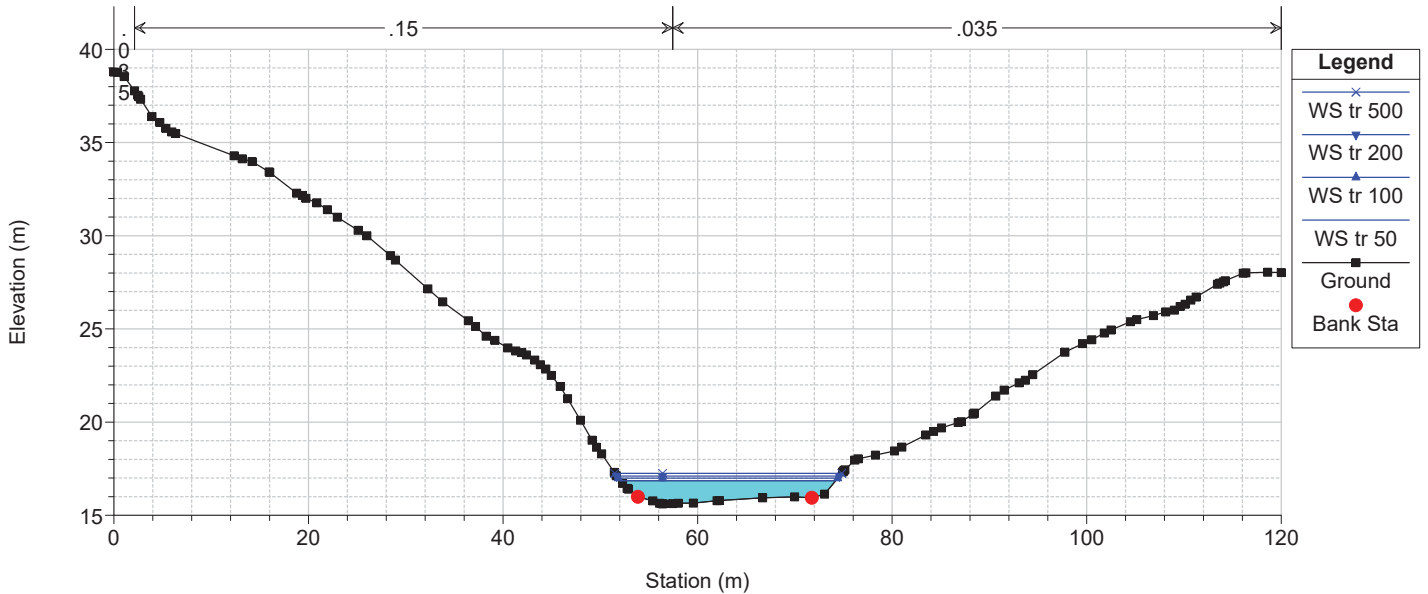
River = Rio Calabona Reach = Asta 3 RS = 604.1613 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

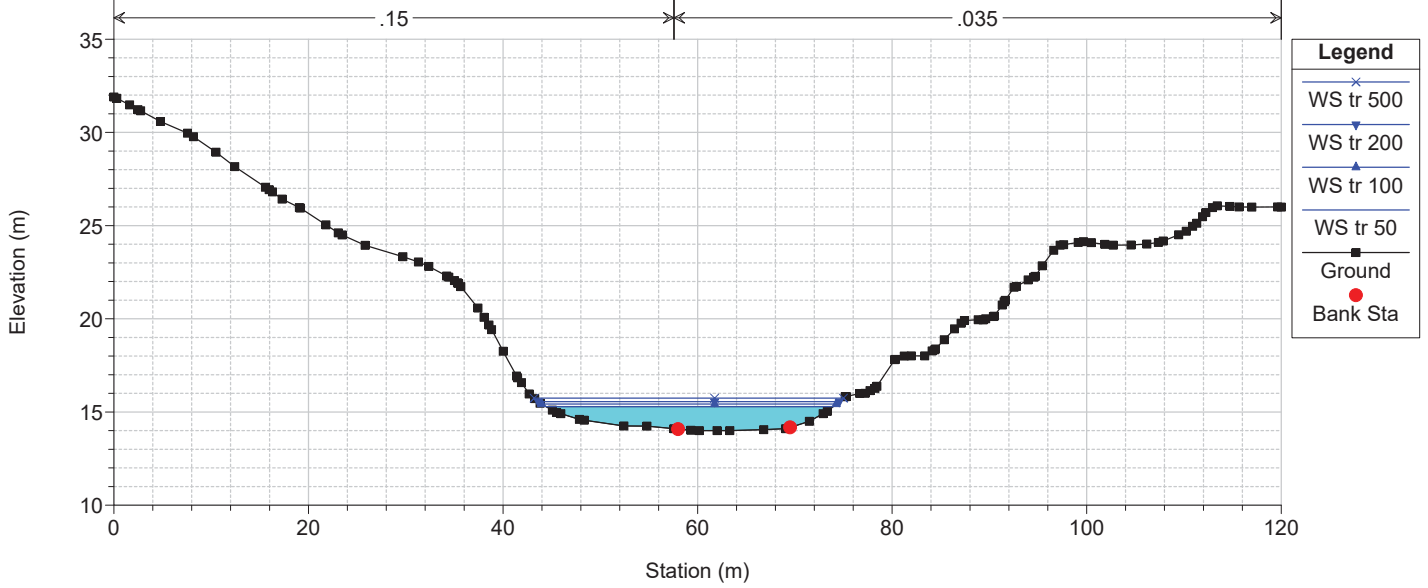
River = Rio Calabona Reach = Asta 3 RS = 578.0931 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

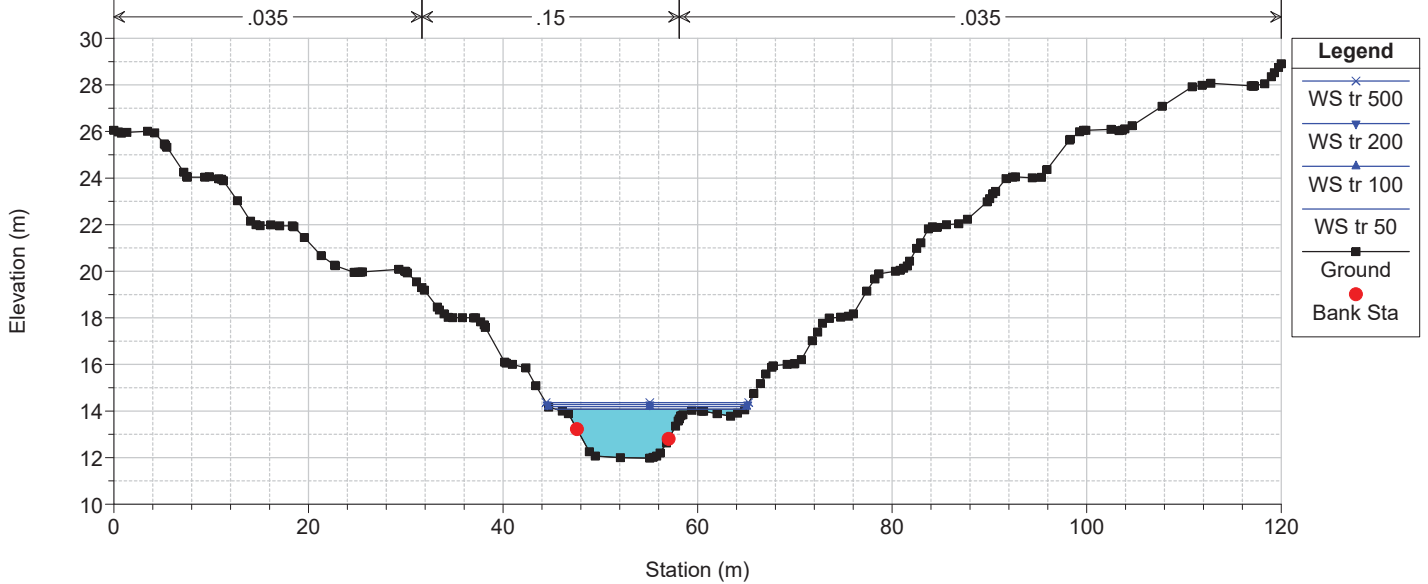
River = Rio Calabona Reach = Asta 3 RS = 528.0932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

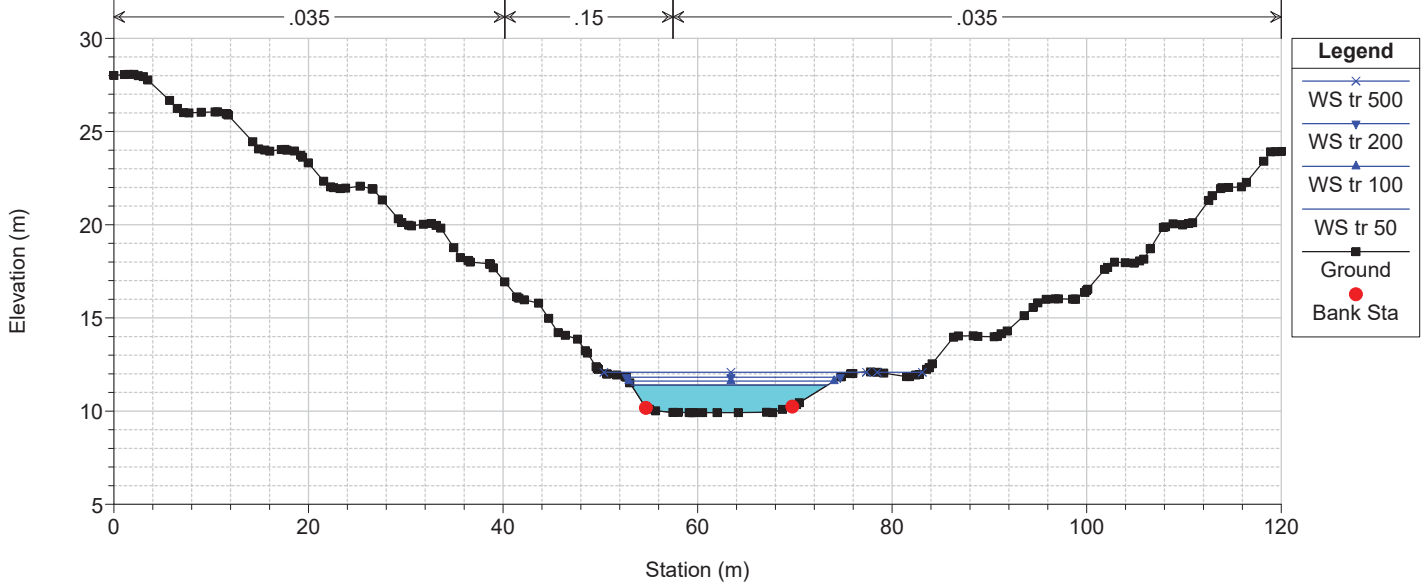
River = Rio Calabona Reach = Asta 3 RS = 478.0931 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

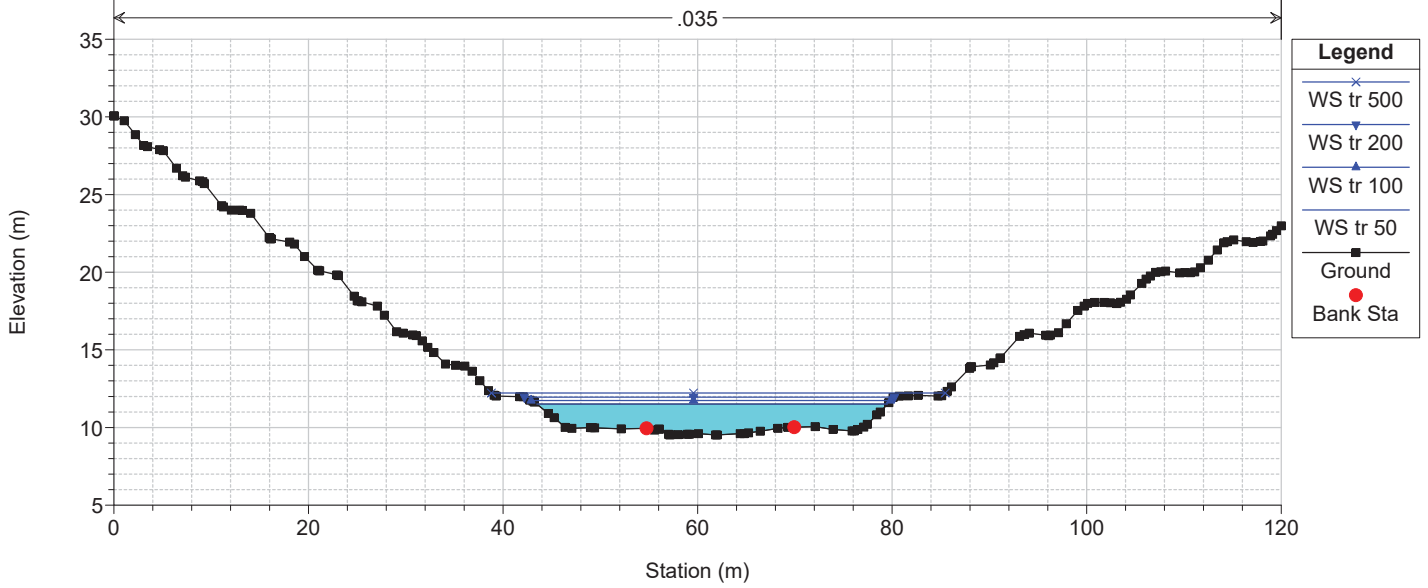
River = Rio Calabona Reach = Asta 3 RS = 428.0933 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

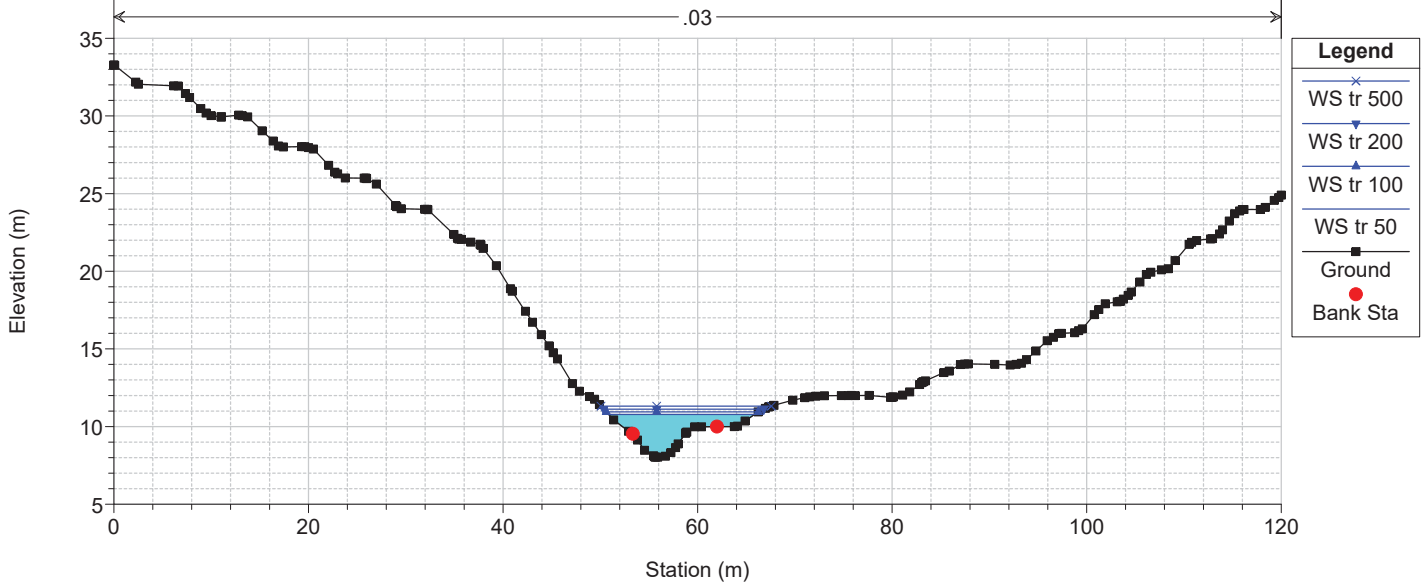
River = Rio Calabona Reach = Asta 3 RS = 378.0931 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

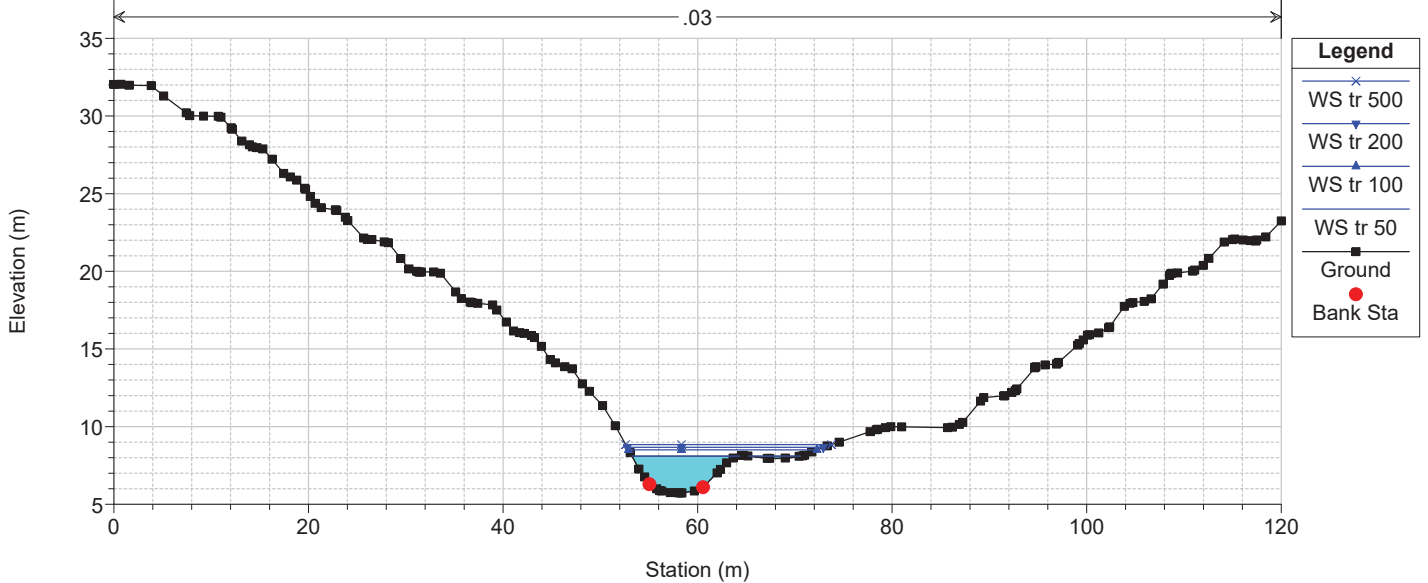
River = Rio Calabona Reach = Asta 3 RS = 328.0933 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

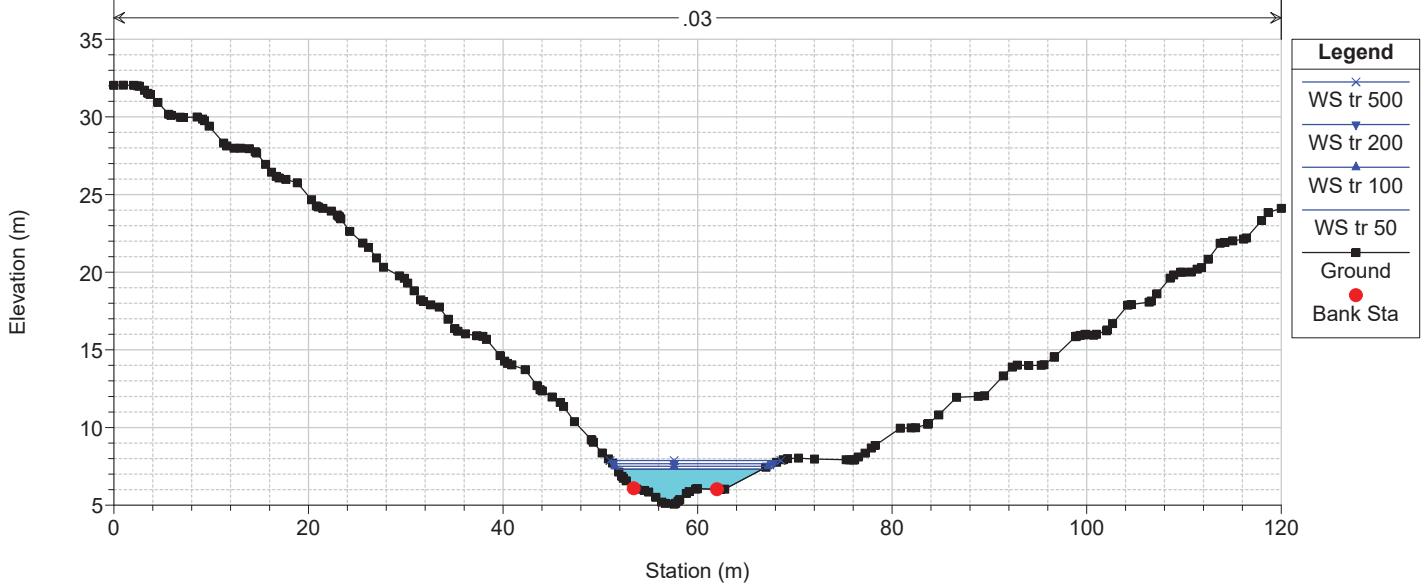
River = Rio Calabona Reach = Asta 3 RS = 278.0932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

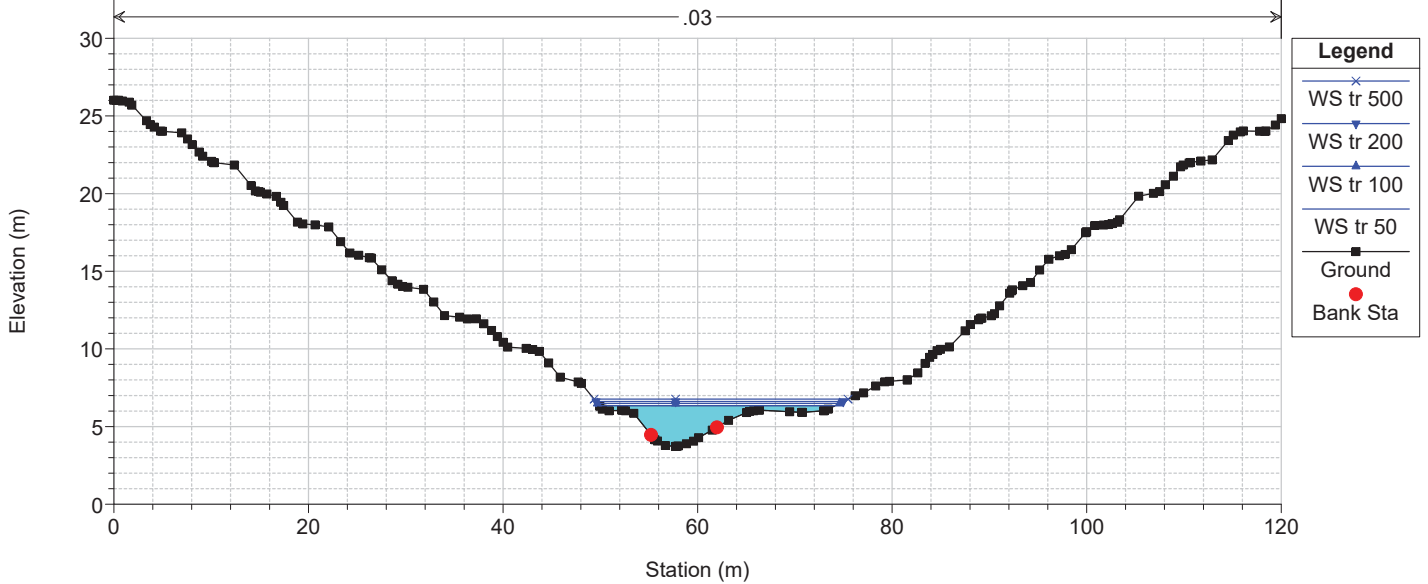
River = Rio Calabona Reach = Asta 3 RS = 228.0932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

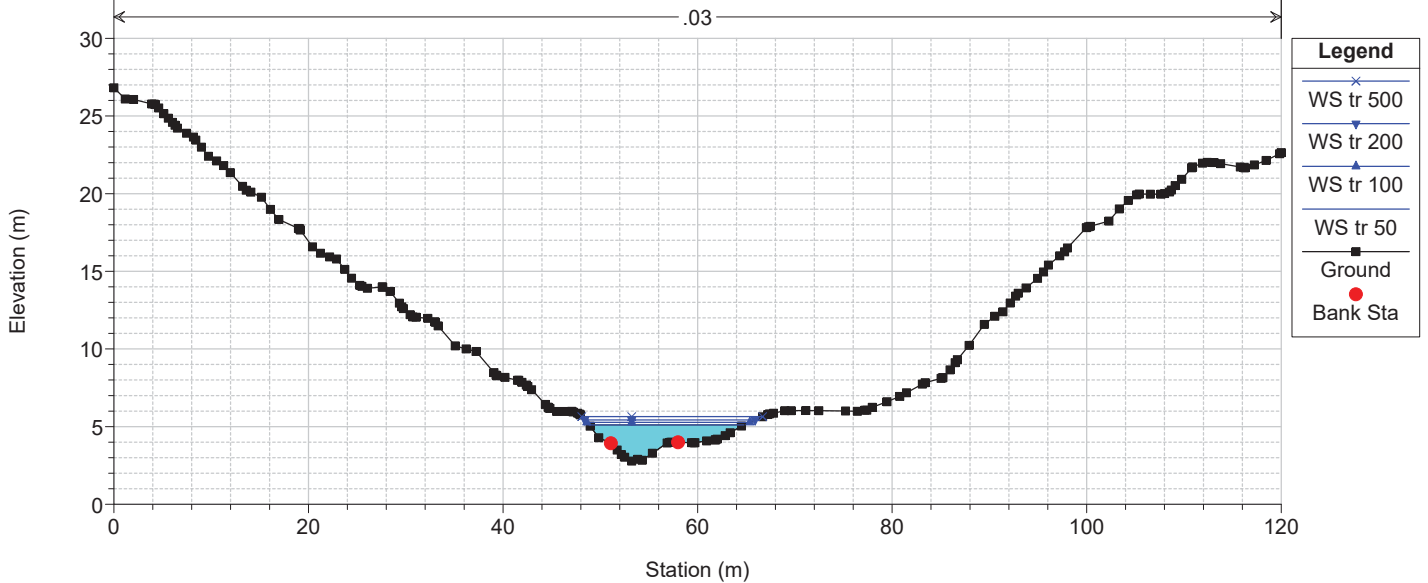
River = Rio Calabona Reach = Asta 3 RS = 178.0933 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

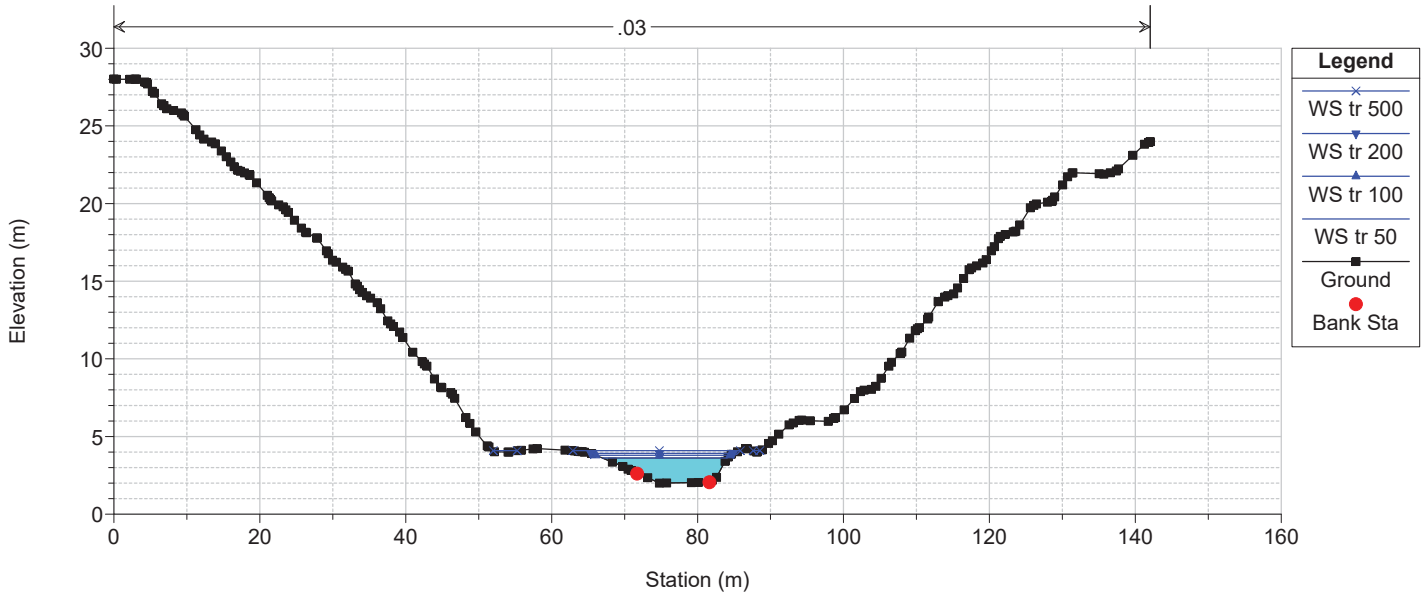
River = Rio Calabona Reach = Asta 3 RS = 128.0932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

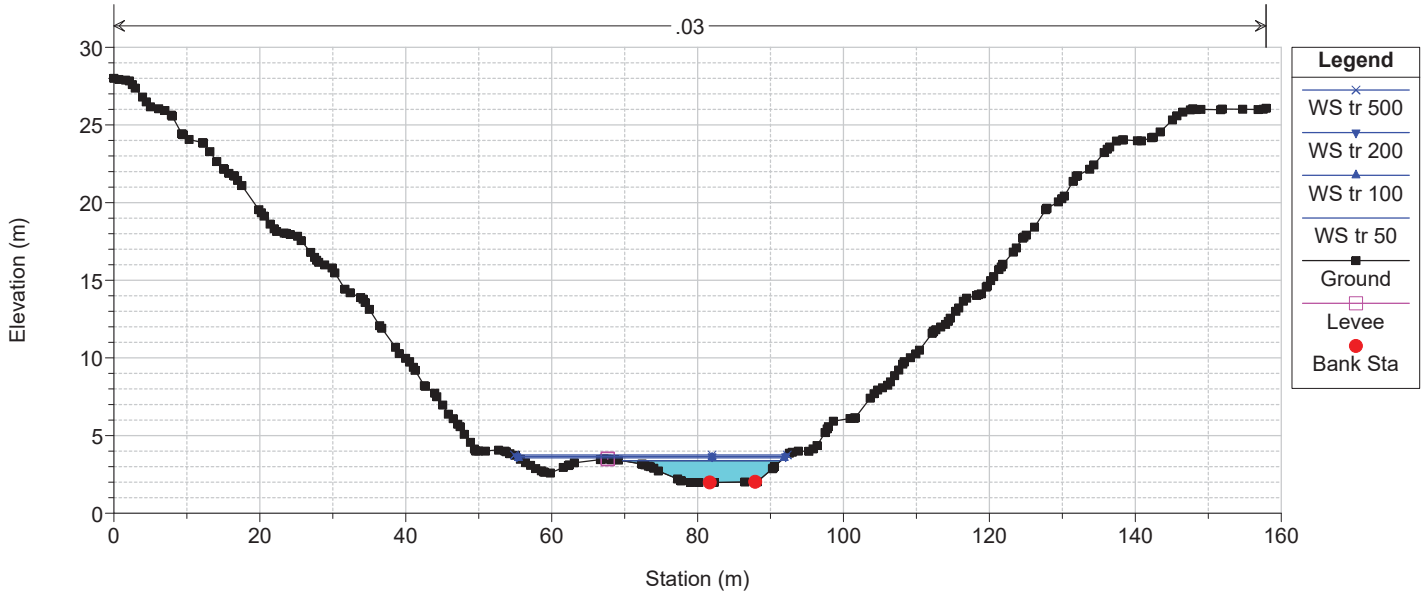
River = Rio Calabona Reach = Asta 3 RS = 82.0579 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

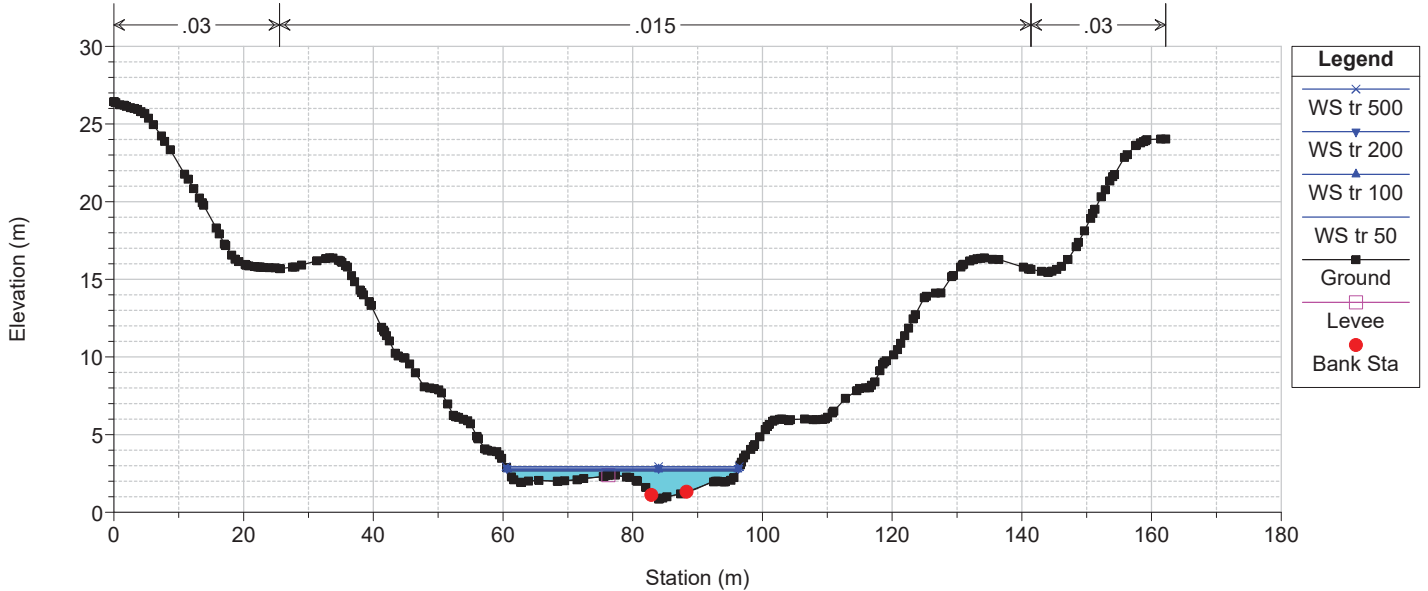
River = Rio Calabona Reach = Asta 3 RS = 67.52119 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

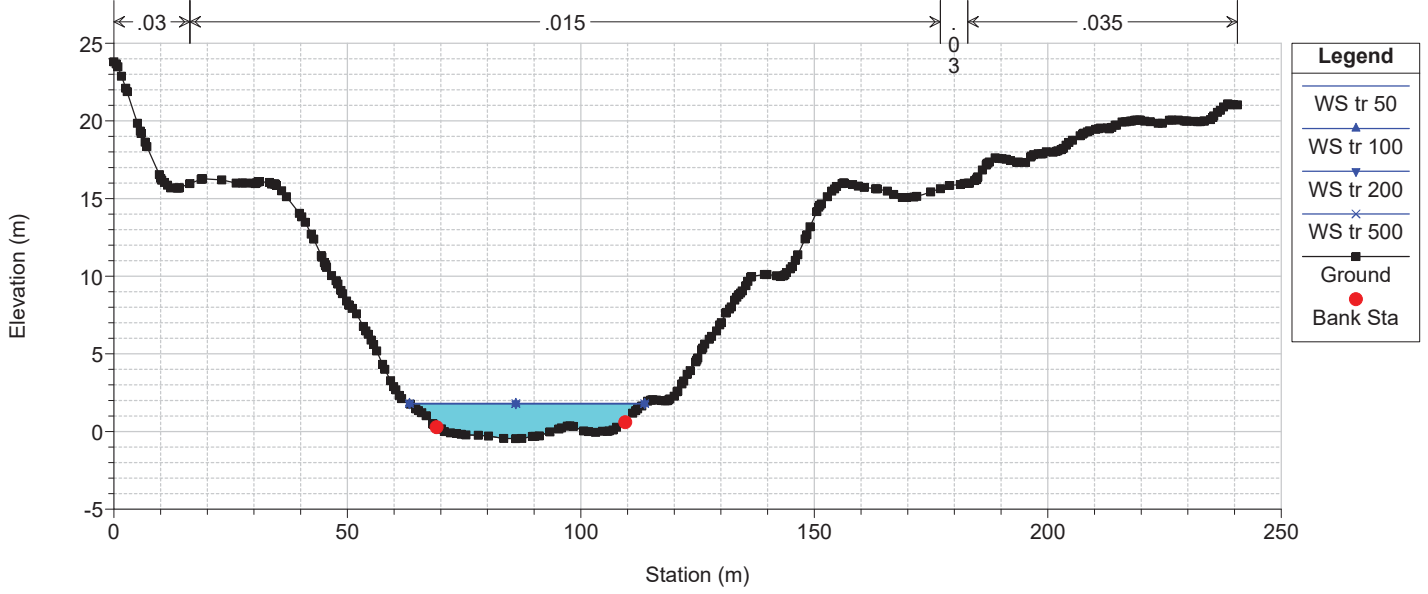
River = Rio Calabona Reach = Asta 3 RS = 28.38959 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



calabona19092017 Plan: Plan 02 6/22/2021

Geom: calabona19092017_mod Flow: calabona19092017

River = Rio Calabona Reach = Asta 3 RS = 9.768489 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



HEC-RAS Plan:

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	0.099390	2.84	10.79	18.68	0.98
Asta 1	4778.093	tr 100	28.81	119.51	120.47	120.47	120.79	0.099687	3.00	12.12	19.32	0.99
Asta 1	4778.093	tr 200	33.38	119.51	120.55	120.55	120.88	0.096426	3.11	13.59	20.08	0.99
Asta 1	4778.093	tr 500	39.60	119.51	120.63	120.63	121.00	0.096074	3.28	15.35	20.96	1.00
Asta 1	4728.093	tr 50	24.31	113.33	114.36	114.36	114.69	0.088407	2.73	10.13	15.33	0.93
Asta 1	4728.093	tr 100	28.81	113.33	114.44	114.44	114.81	0.088606	2.90	11.37	15.79	0.94
Asta 1	4728.093	tr 200	33.38	113.33	114.52	114.52	114.92	0.086780	3.02	12.67	16.25	0.94
Asta 1	4728.093	tr 500	39.60	113.33	114.63	114.63	115.06	0.083627	3.17	14.43	16.83	0.94
Asta 1	4678.093	tr 50	24.31	109.04	109.84	109.84	110.10	0.086211	2.40	11.28	21.76	0.89
Asta 1	4678.093	tr 100	28.81	109.04	109.91	109.91	110.19	0.083456	2.50	12.76	22.85	0.89
Asta 1	4678.093	tr 200	33.38	109.04	109.97	109.97	110.27	0.079606	2.57	14.27	23.93	0.88
Asta 1	4678.093	tr 500	39.60	109.04	110.05	110.05	110.37	0.077229	2.68	16.08	24.88	0.88
Asta 1	4628.093	tr 50	24.31	106.05	106.80	106.80	107.04	0.012150	2.47	12.06	25.50	0.95
Asta 1	4628.093	tr 100	28.81	106.05	106.87	106.87	107.12	0.011766	2.58	13.72	26.48	0.94
Asta 1	4628.093	tr 200	33.38	106.05	106.92	106.92	107.20	0.011747	2.70	15.17	27.14	0.95
Asta 1	4628.093	tr 500	39.60	106.05	106.99	106.99	107.30	0.011586	2.83	17.13	27.99	0.96
Asta 1	4578.093	tr 50	24.31	103.91	104.49	104.49	104.69	0.013168	2.13	13.01	33.27	0.94
Asta 1	4578.093	tr 100	28.81	103.91	104.54	104.54	104.76	0.013048	2.25	14.67	34.47	0.95
Asta 1	4578.093	tr 200	33.38	103.91	104.59	104.59	104.83	0.012598	2.34	16.46	35.89	0.95
Asta 1	4578.093	tr 500	39.60	103.91	104.65	104.65	104.91	0.012346	2.47	18.70	37.64	0.95
Asta 1	4528.093	tr 50	24.31	101.28	102.16	102.16	102.36	0.009624	2.52	13.84	31.26	0.87
Asta 1	4528.093	tr 100	28.81	101.28	102.20	102.20	102.42	0.010237	2.68	15.22	31.61	0.91
Asta 1	4528.093	tr 200	33.38	101.28	102.25	102.25	102.49	0.010446	2.80	16.69	31.99	0.92
Asta 1	4528.093	tr 500	39.60	101.28	102.31	102.31	102.58	0.010392	2.92	18.75	32.46	0.93
Asta 1	4478.093	tr 50	24.31	98.40	100.00		100.10	0.013420	1.42	18.30	20.88	0.39
Asta 1	4478.093	tr 100	28.81	98.40	100.10		100.21	0.013529	1.50	20.47	22.22	0.39
Asta 1	4478.093	tr 200	33.38	98.40	100.19		100.31	0.013634	1.56	22.51	23.27	0.40
Asta 1	4478.093	tr 500	39.60	98.40	100.30		100.43	0.013836	1.65	25.06	24.43	0.41
Asta 1	4457.704	tr 50	24.31	97.29	98.39	98.39	98.72	0.081069	2.62	9.84	14.92	0.89
Asta 1	4457.704	tr 100	28.81	97.29	98.48	98.48	98.84	0.078405	2.74	11.15	15.76	0.89
Asta 1	4457.704	tr 200	33.38	97.29	98.56	98.56	98.95	0.075802	2.84	12.44	16.54	0.88
Asta 1	4457.704	tr 500	39.60	97.29	98.67	98.67	99.09	0.070420	2.92	14.29	17.60	0.86
Asta 1	4428.093	tr 50	24.31	95.82	96.71	96.71	97.00	0.021058	2.67	11.98	22.04	0.93
Asta 1	4428.093	tr 100	28.81	95.82	96.79	96.79	97.10	0.020626	2.79	13.67	23.18	0.94
Asta 1	4428.093	tr 200	33.38	95.82	96.86	96.86	97.19	0.019857	2.88	15.43	24.33	0.93
Asta 1	4428.093	tr 500	39.60	95.82	96.95	96.95	97.30	0.019547	3.02	17.55	25.39	0.93
Asta 1	4378.093	tr 50	24.31	93.95	94.95		95.02	0.002950	1.29	23.44	39.36	0.43
Asta 1	4378.093	tr 100	28.81	93.95	95.02		95.10	0.003009	1.38	26.40	41.60	0.44
Asta 1	4378.093	tr 200	33.38	93.95	95.09		95.17	0.003040	1.44	29.31	43.44	0.45
Asta 1	4378.093	tr 500	39.60	93.95	95.17		95.26	0.003070	1.52	32.91	44.75	0.45
Asta 1	4369.912	tr 50	24.31	93.75	94.49	94.49	94.71	0.015326	2.46	12.57	28.51	0.93
Asta 1	4369.912	tr 100	28.81	93.75	94.55	94.55	94.79	0.014961	2.57	14.41	30.49	0.93
Asta 1	4369.912	tr 200	33.38	93.75	94.61	94.61	94.87	0.014675	2.67	16.23	32.32	0.94
Asta 1	4369.912	tr 500	39.60	93.75	94.68	94.68	94.96	0.014170	2.78	18.70	34.66	0.93
Asta 1	4345.392	tr 50	24.31	93.01	93.82	93.82	94.08	0.015537	2.49	11.53	22.98	0.94
Asta 1	4345.392	tr 100	28.81	93.01	93.89	93.89	94.17	0.014986	2.61	13.21	24.32	0.94
Asta 1	4345.392	tr 200	33.38	93.01	93.96	93.96	94.25	0.014723	2.72	14.79	25.52	0.94
Asta 1	4345.392	tr 500	39.60	93.01	94.04	94.04	94.36	0.014142	2.84	17.00	27.08	0.94
Asta 1	4328.093	tr 50	24.31	92.43	93.18	93.18	93.43	0.015425	2.44	12.01	25.24	0.93
Asta 1	4328.093	tr 100	28.81	92.43	93.25	93.25	93.51	0.014969	2.55	13.72	26.63	0.93
Asta 1	4328.093	tr 200	33.38	92.43	93.31	93.31	93.59	0.014713	2.66	15.36	27.90	0.94
Asta 1	4328.093	tr 500	39.60	92.43	93.39	93.39	93.69	0.014271	2.78	17.61	29.72	0.94
Asta 1	4278.093	tr 50	24.31	90.51	91.16	91.16	91.37	0.016174	2.16	12.74	31.28	0.92
Asta 1	4278.093	tr 100	28.81	90.51	91.22	91.22	91.44	0.015232	2.24	14.70	33.22	0.91
Asta 1	4278.093	tr 200	33.38	90.51	91.27	91.27	91.51	0.014732	2.33	16.51	34.51	0.91
Asta 1	4278.093	tr 500	39.60	90.51	91.34	91.34	91.60	0.014428	2.45	18.77	36.06	0.91
Asta 1	4228.093	tr 50	24.31	88.76	89.46		89.56	0.007357	1.64	18.18	41.42	0.64
Asta 1	4228.093	tr 100	28.81	88.76	89.52		89.63	0.007144	1.71	20.78	43.60	0.64
Asta 1	4228.093	tr 200	33.38	88.76	89.58		89.70	0.006917	1.77	23.39	45.69	0.64
Asta 1	4228.093	tr 500	39.60	88.76	89.65		89.78	0.006579	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	0.013461	2.54	14.06	27.21	0.90
Asta 1	4178.093	tr 200	33.38	88.00	88.95	88.95	89.22	0.013170	2.63	15.80	28.54	0.90
Asta 1	4178.093	tr 500	39.60	88.00	89.02	89.02	89.32	0.013037	2.77	17.99	30.13	0.90
Asta 1	4128.093	tr 50	24.31	86.00	86.90	86.90	87.18	0.003964	2.73	12.53	23.35	0.95
Asta 1	4128.093	tr 100	28.81	86.00	86.98	86.98	87.28	0.003851	2.86	14.41	24.98	0.95
Asta 1	4128.093	tr 200	33.38	86.00	87.05	87.05	87.37	0.003715	2.96	16.34	26.55	0.95

HEC-RAS Plan: (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	87.13	87.13	87.48	0.003750	3.13	18.55	28.25	0.96
Asta 1	4078.093	tr 50	24.31	84.55	85.69	85.69	86.01	0.010122	2.86	10.60	17.13	0.91
Asta 1	4078.093	tr 100	28.81	84.55	85.78	85.78	86.12	0.009910	3.00	12.18	18.55	0.92
Asta 1	4078.093	tr 200	33.38	84.55	85.86	85.86	86.23	0.009679	3.11	13.80	20.00	0.92
Asta 1	4078.093	tr 500	39.60	84.55	85.95	85.95	86.36	0.010020	3.33	15.68	22.04	0.95
Asta 1	4028.093	tr 50	24.31	83.89	84.40	84.40	84.57	0.015777	1.92	13.99	44.73	0.98
Asta 1	4028.093	tr 100	28.81	83.89	84.45	84.45	84.62	0.015301	2.02	15.86	46.09	0.98
Asta 1	4028.093	tr 200	33.38	83.89	84.48	84.48	84.68	0.014898	2.11	17.68	47.40	0.98
Asta 1	4028.093	tr 500	39.60	83.89	84.53	84.53	84.74	0.014378	2.22	20.09	48.96	0.98
Asta 1	3976.868	tr 50	24.31	80.62	83.58	82.18	83.63	0.000619	1.07	30.19	37.99	0.23
Asta 1	3976.868	tr 100	28.81	80.62	83.71	82.34	83.76	0.000630	1.12	35.23	41.90	0.23
Asta 1	3976.868	tr 200	33.38	80.62	83.79	82.48	83.85	0.000685	1.19	38.90	44.67	0.24
Asta 1	3976.868	tr 500	39.60	80.62	83.89	82.66	83.95	0.000763	1.29	43.34	47.79	0.26
Asta 1	3950.562		Culvert									
Asta 1	3940.943	tr 50	24.31	80.00	82.20	81.79	82.65	0.010051	3.02	8.98	15.20	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	82.87	0.006948	2.79	15.93	24.24	0.59
Asta 1	3940.943	tr 500	39.60	80.00	82.64	82.64	82.98	0.007140	2.91	18.48	26.26	0.60
Asta 1	3917.049	tr 50	24.31	81.46	82.13	82.13	82.30	0.012481	2.40	14.45	40.35	0.95
Asta 1	3917.049	tr 100	28.81	81.46	82.18	82.18	82.36	0.012709	2.52	16.13	41.32	0.97
Asta 1	3917.049	tr 200	33.38	81.46	82.22	82.22	82.41	0.012623	2.61	17.88	42.30	0.97
Asta 1	3917.049	tr 500	39.60	81.46	82.27	82.27	82.49	0.012665	2.73	20.06	43.50	0.99
Asta 1	3878.093	tr 50	24.31	80.57	81.22	81.22	81.43	0.013607	2.27	12.32	28.97	0.97
Asta 1	3878.093	tr 100	28.81	80.57	81.28	81.28	81.51	0.013296	2.39	13.96	30.19	0.97
Asta 1	3878.093	tr 200	33.38	80.57	81.33	81.33	81.58	0.012875	2.49	15.65	31.38	0.97
Asta 1	3878.093	tr 500	39.60	80.57	81.40	81.40	81.67	0.012431	2.61	17.85	32.88	0.97
Asta 1	3828.093	tr 50	24.31	79.07	80.02	80.02	80.06	0.002065	1.18	28.32	55.63	0.40
Asta 1	3828.093	tr 100	28.81	79.07	80.02	80.02	80.08	0.002901	1.40	28.32	55.63	0.48
Asta 1	3828.093	tr 200	33.38	79.07	80.02	80.02	80.10	0.003896	1.63	28.32	55.63	0.56
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	77.58	77.58	77.84	0.012382	2.43	11.31	22.29	0.95
Asta 1	3778.093	tr 100	28.81	76.86	77.64	77.64	77.93	0.012003	2.55	12.86	23.30	0.95
Asta 1	3778.093	tr 200	33.38	76.86	77.71	77.71	78.02	0.011651	2.66	14.41	24.27	0.95
Asta 1	3778.093	tr 500	39.60	76.86	77.79	77.79	78.12	0.011357	2.80	16.39	25.45	0.95
Asta 1	3735.233	tr 50	24.31	75.03	77.64		77.66	0.000147	0.62	49.87	33.85	0.13
Asta 1	3735.233	tr 100	28.81	75.03	77.74		77.76	0.000173	0.69	53.15	34.76	0.14
Asta 1	3735.233	tr 200	33.38	75.03	77.83		77.85	0.000200	0.75	56.29	35.62	0.15
Asta 1	3735.233	tr 500	39.60	75.03	77.94		77.96	0.000234	0.84	60.30	36.93	0.16
Asta 1	3665.624	tr 50	24.31	76.58	77.34	77.34	77.60	0.014196	2.35	11.64	24.26	0.94
Asta 1	3665.624	tr 100	28.81	76.58	77.41	77.41	77.69	0.013745	2.47	13.34	25.52	0.94
Asta 1	3665.624	tr 200	33.38	76.58	77.47	77.47	77.78	0.013303	2.57	15.04	26.74	0.93
Asta 1	3665.624	tr 500	39.60	76.58	77.56	77.56	77.88	0.012693	2.69	17.36	28.29	0.93
Asta 1	3617.807	tr 50	24.31	75.54	76.31	76.31	76.52	0.012772	2.29	13.49	33.91	0.94
Asta 1	3617.807	tr 100	28.81	75.54	76.37	76.37	76.60	0.012448	2.39	15.40	35.00	0.94
Asta 1	3617.807	tr 200	33.38	75.54	76.42	76.42	76.66	0.012611	2.52	17.06	35.98	0.96
Asta 1	3617.807	tr 500	39.60	75.54	76.48	76.48	76.75	0.012440	2.64	19.38	37.20	0.96
Asta 1	3578.093	tr 50	24.31	74.75	75.58	75.58	75.85	0.013504	2.31	11.11	23.96	0.97
Asta 1	3578.093	tr 100	28.81	74.75	75.66	75.66	75.95	0.012537	2.40	12.94	25.77	0.95
Asta 1	3578.093	tr 200	33.38	74.75	75.72	75.72	76.03	0.012015	2.50	14.67	27.12	0.94
Asta 1	3578.093	tr 500	39.60	74.75	75.81	75.81	76.14	0.011190	2.60	17.12	28.93	0.93
Asta 1	3528.093	tr 50	24.31	73.51	74.53	74.53	74.80	0.010086	2.62	13.31	24.95	0.89
Asta 1	3528.093	tr 100	28.81	73.51	74.60	74.60	74.90	0.010061	2.76	15.19	26.20	0.90
Asta 1	3528.093	tr 200	33.38	73.51	74.67	74.67	74.99	0.010130	2.90	16.96	27.33	0.92
Asta 1	3528.093	tr 500	39.60	73.51	74.76	74.76	75.11	0.009832	3.02	19.55	28.85	0.92
Asta 1	3478.093	tr 50	24.31	72.00	73.25		73.51	0.009888	2.42	11.67	15.71	0.73
Asta 1	3478.093	tr 100	28.81	72.00	73.33	73.22	73.63	0.010511	2.61	12.95	16.46	0.76
Asta 1	3478.093	tr 200	33.38	72.00	73.40	73.31	73.74	0.011104	2.79	14.19	17.32	0.79
Asta 1	3478.093	tr 500	39.60	72.00	73.49	73.43	73.88	0.011946	3.02	15.74	18.37	0.83
Asta 1	3420.841	tr 50	24.31	71.38	72.43	72.42	72.70	0.021120	2.50	12.33	23.34	0.86
Asta 1	3420.841	tr 100	28.81	71.38	72.50	72.50	72.80	0.020704	2.63	14.09	24.86	0.86
Asta 1	3420.841	tr 200	33.38	71.38	72.57	72.57	72.89	0.020129	2.73	15.86	26.10	0.87
Asta 1	3420.841	tr 500	39.60	71.38	72.66	72.66	73.00	0.019346	2.84	18.20	27.50	0.87
Asta 1	3369.955	tr 50	24.31	70.68	71.65	71.65	71.93	0.011432	2.75	12.87	24.59	0.93
Asta 1	3369.955	tr 100	28.81	70.68	71.73	71.73	72.03	0.010993	2.86	14.96	26.42	0.92
Asta 1	3369.955	tr 200	33.38	70.68	71.80	71.80	72.12	0.011014	2.99	16.81	27.90	0.94
Asta 1	3369.955	tr 500	39.60	70.68	71.89	71.89	72.23	0.010813	3.13	19.38	29.80	0.94

HEC-RAS Plan: (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	70.91	70.91	71.19	0.011870	2.42	11.44	22.36	0.93
Asta 1	3328.093	tr 100	28.81	70.09	70.98	70.98	71.28	0.011666	2.56	13.03	23.46	0.94
Asta 1	3328.093	tr 200	33.38	70.09	71.05	71.05	71.38	0.011301	2.67	14.67	24.55	0.94
Asta 1	3328.093	tr 500	39.60	70.09	71.14	71.14	71.49	0.010721	2.79	16.96	26.00	0.93
Asta 1	3278.093	tr 50	24.31	69.51	70.31	70.31	70.49	0.014389	2.29	14.57	38.44	0.88
Asta 1	3278.093	tr 100	28.81	69.51	70.36	70.36	70.56	0.014703	2.40	16.25	39.24	0.89
Asta 1	3278.093	tr 200	33.38	69.51	70.40	70.40	70.62	0.014631	2.49	18.00	40.06	0.90
Asta 1	3278.093	tr 500	39.60	69.51	70.46	70.46	70.70	0.014469	2.59	20.31	41.11	0.90
Asta 1	3228.093	tr 50	24.31	68.35	68.97	68.97	69.17	0.016298	2.19	12.33	30.11	0.94
Asta 1	3228.093	tr 100	28.81	68.35	69.02	69.02	69.25	0.015818	2.30	13.94	31.12	0.95
Asta 1	3228.093	tr 200	33.38	68.35	69.07	69.07	69.32	0.015398	2.39	15.53	32.08	0.95
Asta 1	3228.093	tr 500	39.60	68.35	69.13	69.13	69.40	0.014925	2.50	17.61	33.30	0.95
Asta 1	3178.093	tr 50	24.31	67.47	69.07		69.08	0.000154	0.47	63.78	60.78	0.12
Asta 1	3178.093	tr 100	28.81	67.47	69.12		69.13	0.000190	0.53	66.69	61.72	0.14
Asta 1	3178.093	tr 200	33.38	67.47	69.15		69.17	0.000235	0.60	68.67	62.36	0.15
Asta 1	3178.093	tr 500	39.60	67.47	69.23		69.24	0.000274	0.67	73.37	63.84	0.16
Asta 1	3128.093	tr 50	24.31	66.59	69.07		69.08	0.000021	0.24	116.10	60.92	0.05
Asta 1	3128.093	tr 100	28.81	66.59	69.12		69.13	0.000028	0.28	119.03	61.19	0.06
Asta 1	3128.093	tr 200	33.38	66.59	69.15		69.16	0.000036	0.32	121.01	61.40	0.06
Asta 1	3128.093	tr 500	39.60	66.59	69.23		69.24	0.000045	0.36	125.64	61.89	0.07
Asta 1	3078.093	tr 50	24.31	66.10	69.07	67.00	69.08	0.000030	0.31	109.15	68.23	0.06
Asta 1	3078.093	tr 100	28.81	66.10	69.12	67.09	69.12	0.000038	0.36	112.40	68.85	0.07
Asta 1	3078.093	tr 200	33.38	66.10	69.15	67.16	69.16	0.000049	0.41	114.60	69.27	0.08
Asta 1	3078.093	tr 500	39.60	66.10	69.23	67.25	69.23	0.000061	0.46	119.79	70.27	0.09
Asta 1	3071.681		Culvert									
Asta 1	3061.616	tr 50	24.31	65.64	66.28	66.28	66.50	0.012556	2.20	12.35	28.40	0.93
Asta 1	3061.616	tr 100	28.81	65.64	66.34	66.34	66.58	0.012328	2.32	13.94	29.11	0.94
Asta 1	3061.616	tr 200	33.38	65.64	66.39	66.39	66.65	0.012093	2.42	15.50	29.79	0.94
Asta 1	3061.616	tr 500	39.60	65.64	66.46	66.46	66.75	0.011921	2.56	17.47	30.64	0.95
Asta 1	3028.093	tr 50	24.31	65.07	65.75	65.75	65.96	0.012327	2.13	12.79	32.29	0.92
Asta 1	3028.093	tr 100	28.81	65.07	65.81	65.81	66.03	0.011890	2.23	14.66	34.24	0.91
Asta 1	3028.093	tr 200	33.38	65.07	65.86	65.86	66.10	0.011520	2.32	16.51	36.06	0.91
Asta 1	3028.093	tr 500	39.60	65.07	65.93	65.93	66.19	0.011121	2.43	18.95	38.34	0.91
Asta 1	2978.093	tr 50	24.31	64.16	64.69	64.69	64.88	0.013890	2.03	13.06	35.18	0.95
Asta 1	2978.093	tr 100	28.81	64.16	64.74	64.74	64.95	0.013245	2.13	14.91	36.66	0.94
Asta 1	2978.093	tr 200	33.38	64.16	64.79	64.79	65.01	0.012695	2.21	16.73	37.88	0.94
Asta 1	2978.093	tr 500	39.60	64.16	64.85	64.85	65.09	0.012420	2.33	18.92	39.03	0.94
Asta 1	2928.093	tr 50	24.31	62.83	63.62	63.62	63.86	0.013005	2.23	11.45	25.13	0.95
Asta 1	2928.093	tr 100	28.81	62.83	63.68	63.68	63.95	0.012319	2.33	13.14	26.60	0.94
Asta 1	2928.093	tr 200	33.38	62.83	63.75	63.75	64.03	0.011601	2.41	14.89	28.04	0.92
Asta 1	2928.093	tr 500	39.60	62.83	63.82	63.82	64.13	0.011233	2.54	17.03	29.80	0.92
Asta 1	2878.093	tr 50	24.31	61.83	62.55	62.55	62.81	0.013121	2.50	11.27	22.10	0.98
Asta 1	2878.093	tr 100	28.81	61.83	62.61	62.61	62.90	0.012888	2.63	12.70	22.73	0.98
Asta 1	2878.093	tr 200	33.38	61.83	62.68	62.68	62.98	0.012667	2.75	14.11	23.33	0.99
Asta 1	2878.093	tr 500	39.60	61.83	62.75	62.75	63.09	0.012296	2.89	15.99	24.11	0.99
Asta 1	2828.093	tr 50	24.31	61.02	61.82	61.82	62.05	0.014023	2.17	11.58	25.74	0.97
Asta 1	2828.093	tr 100	28.81	61.02	61.88	61.88	62.14	0.013250	2.27	13.21	27.11	0.96
Asta 1	2828.093	tr 200	33.38	61.02	61.93	61.93	62.22	0.013145	2.39	14.63	28.25	0.97
Asta 1	2828.093	tr 500	39.60	61.02	62.02	62.02	62.31	0.011829	2.47	17.08	30.48	0.94
Asta 1	2789.446	tr 50	24.31	60.36	61.18	61.15	61.38	0.010792	2.07	12.79	28.33	0.87
Asta 1	2789.446	tr 100	28.81	60.36	61.24	61.21	61.46	0.010652	2.19	14.49	29.98	0.87
Asta 1	2789.446	tr 200	33.38	60.36	61.30	61.27	61.54	0.010241	2.28	16.31	31.51	0.87
Asta 1	2789.446	tr 500	39.60	60.36	61.37	61.34	61.63	0.009697	2.38	18.77	33.27	0.86
Asta 1	2751.038	tr 50	24.31	59.95	61.27		61.28	0.000381	0.66	44.04	48.91	0.19
Asta 1	2751.038	tr 100	28.81	59.95	61.33		61.35	0.000439	0.73	47.30	50.29	0.20
Asta 1	2751.038	tr 200	33.38	59.95	61.40		61.42	0.000490	0.80	50.52	51.60	0.21
Asta 1	2751.038	tr 500	39.60	59.95	61.48		61.51	0.000550	0.88	54.70	52.98	0.23
Asta 2	2718.168	tr 50	40.10	59.69	61.26		61.27	0.000211	0.54	84.89	71.66	0.14
Asta 2	2718.168	tr 100	47.82	59.69	61.33		61.34	0.000254	0.61	89.52	72.01	0.16
Asta 2	2718.168	tr 200	55.66	59.69	61.39		61.41	0.000294	0.67	94.00	72.29	0.17
Asta 2	2718.168	tr 500	66.15	59.69	61.47		61.49	0.000345	0.75	99.68	72.65	0.18
Asta 2	2714.01	tr 50	40.10	59.81	61.26		61.27	0.000131	0.62	78.22	76.24	0.18
Asta 2	2714.01	tr 100	47.82	59.81	61.32		61.34	0.000154	0.69	83.05	76.71	0.20
Asta 2	2714.01	tr 200	55.66	59.81	61.38		61.41	0.000176	0.76	87.72	77.15	0.22
Asta 2	2714.01	tr 500	66.15	59.81	61.46		61.49	0.000203	0.85	93.65	77.72	0.23

HEC-RAS Plan: (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	2696.798	tr 50	40.10	60.00	61.07	61.07	61.25	0.005677	2.13	23.28	56.37	0.69
Asta 2	2696.798	tr 100	47.82	60.00	61.12	61.12	61.32	0.005923	2.24	25.85	57.00	0.71
Asta 2	2696.798	tr 200	55.66	60.00	61.16	61.16	61.38	0.006174	2.35	28.20	57.62	0.72
Asta 2	2696.798	tr 500	66.15	60.00	61.21	61.21	61.46	0.006341	2.46	31.30	58.51	0.74
Asta 2	2678.093	tr 50	40.10	59.71	60.56		60.60	0.000612	0.58	47.07	78.62	0.22
Asta 2	2678.093	tr 100	47.82	59.71	60.77		60.80	0.000329	0.50	63.72	82.23	0.16
Asta 2	2678.093	tr 200	55.66	59.71	60.94		60.97	0.000225	0.47	78.32	83.39	0.14
Asta 2	2678.093	tr 500	66.15	59.71	61.15		61.18	0.000161	0.44	95.97	84.04	0.12
Asta 2	2628.093	tr 50	40.10	58.98	60.57		60.59	0.000056	0.59	77.59	69.83	0.16
Asta 2	2628.093	tr 100	47.82	58.98	60.77		60.79	0.000049	0.60	91.94	72.73	0.15
Asta 2	2628.093	tr 200	55.66	58.98	60.95		60.96	0.000046	0.62	104.75	74.83	0.15
Asta 2	2628.093	tr 500	66.15	58.98	61.16		61.17	0.000043	0.65	120.68	77.43	0.15
Asta 2	2578.093	tr 50	40.10	58.34	59.96	59.96	60.52	0.002694	3.56	14.16	15.37	0.95
Asta 2	2578.093	tr 100	47.82	58.34	60.15	60.15	60.73	0.002350	3.63	17.52	19.11	0.91
Asta 2	2578.093	tr 200	55.66	58.34	60.32	60.32	60.90	0.002146	3.70	20.96	22.29	0.88
Asta 2	2578.093	tr 500	66.15	58.34	60.51	60.51	61.11	0.002005	3.82	25.61	27.19	0.87
Asta 2	2553.412	tr 50	40.10	58.03	59.57		59.79	0.014491	2.11	20.07	19.54	0.57
Asta 2	2553.412	tr 100	47.82	58.03	59.76		59.99	0.012268	2.12	23.99	21.18	0.54
Asta 2	2553.412	tr 200	55.66	58.03	59.95		60.18	0.010528	2.12	28.30	23.64	0.51
Asta 2	2553.412	tr 500	66.15	58.03	60.18		60.41	0.009183	2.15	34.13	27.80	0.48
Asta 2	2528.093	tr 50	40.10	57.19	58.87	58.87	59.46	0.009726	3.59	12.43	10.87	0.95
Asta 2	2528.093	tr 100	47.82	57.19	59.03	59.03	59.68	0.009354	3.77	14.24	11.36	0.95
Asta 2	2528.093	tr 200	55.66	57.19	59.17	59.17	59.88	0.009330	3.98	15.86	11.80	0.96
Asta 2	2528.093	tr 500	66.15	57.19	59.39	59.39	60.13	0.008477	4.10	18.51	12.53	0.93
Asta 2	2504.213	tr 50	40.10	56.56	58.42	58.42	58.96	0.009456	3.31	13.01	12.85	0.91
Asta 2	2504.213	tr 100	47.82	56.56	58.57	58.57	59.15	0.009143	3.49	14.95	13.81	0.91
Asta 2	2504.213	tr 200	55.66	56.56	58.72	58.72	59.33	0.008662	3.61	17.05	14.77	0.90
Asta 2	2504.213	tr 500	66.15	56.56	58.89	58.89	59.55	0.008309	3.78	19.71	15.85	0.89
Asta 2	2478.093	tr 50	40.10	55.63	56.47	56.47	56.76	0.012935	2.48	18.98	36.79	0.95
Asta 2	2478.093	tr 100	47.82	55.63	56.54	56.54	56.86	0.012472	2.61	21.93	38.50	0.95
Asta 2	2478.093	tr 200	55.66	55.63	56.62	56.62	56.96	0.012111	2.73	24.81	39.78	0.95
Asta 2	2478.093	tr 500	66.15	55.63	56.71	56.71	57.09	0.011638	2.86	28.58	41.08	0.94
Asta 2	2428.093	tr 50	40.10	54.15	55.16	55.16	55.49	0.012659	2.82	21.36	35.72	0.93
Asta 2	2428.093	tr 100	47.82	54.15	55.26	55.26	55.61	0.012202	2.95	24.86	37.77	0.93
Asta 2	2428.093	tr 200	55.66	54.15	55.34	55.34	55.72	0.012008	3.08	28.13	39.34	0.93
Asta 2	2428.093	tr 500	66.15	54.15	55.44	55.44	55.86	0.012078	3.26	32.04	40.99	0.94
Asta 2	2378.093	tr 50	40.10	53.28	54.50	54.50	54.85	0.011802	2.95	20.28	32.47	0.89
Asta 2	2378.093	tr 100	47.82	53.28	54.61	54.61	54.98	0.011383	3.07	23.77	34.60	0.89
Asta 2	2378.093	tr 200	55.66	53.28	54.69	54.69	55.10	0.011408	3.21	26.84	35.99	0.90
Asta 2	2378.093	tr 500	66.15	53.28	54.80	54.80	55.24	0.011474	3.39	30.72	37.63	0.91
Asta 2	2328.093	tr 50	40.10	52.00	53.06	53.06	53.40	0.016835	2.64	16.66	26.29	0.92
Asta 2	2328.093	tr 100	47.82	52.00	53.16	53.16	53.52	0.016054	2.77	19.19	28.07	0.91
Asta 2	2328.093	tr 200	55.66	52.00	53.25	53.25	53.64	0.015290	2.88	21.77	29.77	0.91
Asta 2	2328.093	tr 500	66.15	52.00	53.36	53.36	53.78	0.014491	3.01	25.14	31.87	0.90
Asta 2	2278.355	tr 50	40.10	51.26	52.03	52.03	52.31	0.013115	2.37	18.11	35.96	0.97
Asta 2	2278.355	tr 100	47.82	51.26	52.10	52.10	52.41	0.012829	2.51	20.63	37.24	0.97
Asta 2	2278.355	tr 200	55.66	51.26	52.17	52.17	52.50	0.012440	2.62	23.18	38.22	0.97
Asta 2	2278.355	tr 500	66.15	51.26	52.25	52.25	52.62	0.012207	2.78	26.32	39.14	0.97
Asta 2	2228.502	tr 50	40.10	49.94	51.05	51.04	51.35	0.013348	2.84	17.79	27.95	0.89
Asta 2	2228.502	tr 100	47.82	49.94	51.12	51.12	51.47	0.014011	3.03	19.72	28.71	0.92
Asta 2	2228.502	tr 200	55.66	49.94	51.20	51.20	51.58	0.013437	3.11	22.16	29.60	0.91
Asta 2	2228.502	tr 500	66.15	49.94	51.30	51.30	51.71	0.013440	3.27	24.92	30.57	0.92
Asta 2	2178.093	tr 50	40.10	49.41	50.37	50.37	50.70	0.012304	2.59	16.20	25.54	0.96
Asta 2	2178.093	tr 100	47.82	49.41	50.46	50.46	50.82	0.011596	2.72	18.56	26.37	0.95
Asta 2	2178.093	tr 200	55.66	49.41	50.54	50.54	50.94	0.011378	2.86	20.66	27.08	0.96
Asta 2	2178.093	tr 500	66.15	49.41	50.64	50.64	51.08	0.010920	3.01	23.49	27.93	0.95
Asta 2	2128.093	tr 50	40.10	47.99	48.98	48.83	49.19	0.007056	2.34	20.11	27.15	0.76
Asta 2	2128.093	tr 100	47.82	47.99	49.06	48.92	49.30	0.007342	2.52	22.34	27.90	0.79
Asta 2	2128.093	tr 200	55.66	47.99	49.13	49.00	49.40	0.007668	2.69	24.38	28.58	0.81
Asta 2	2128.093	tr 500	66.15	47.99	49.22	49.10	49.54	0.008097	2.91	26.93	29.47	0.85
Asta 2	2078.093	tr 50	40.10	47.62	48.42	48.42	48.72	0.012530	2.57	17.36	29.88	0.97
Asta 2	2078.093	tr 100	47.82	47.62	48.50	48.50	48.82	0.012253	2.71	19.63	30.58	0.97
Asta 2	2078.093	tr 200	55.66	47.62	48.57	48.57	48.92	0.011870	2.83	21.92	31.25	0.97
Asta 2	2078.093	tr 500	66.15	47.62	48.67	48.67	49.05	0.011423	2.98	24.85	31.99	0.97
Asta 2	2028.093	tr 50	40.10	46.15	47.41		47.51	0.002370	1.47	28.52	30.82	0.45
Asta 2	2028.093	tr 100	47.82	46.15	47.51		47.64	0.002427	1.58	31.83	31.89	0.46
Asta 2	2028.093	tr 200	55.66	46.15	47.61		47.75	0.002480	1.68	35.00	32.87	0.47

HEC-RAS Plan: (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	2028.093	tr 500	66.15	46.15	47.73		47.89	0.002544	1.81	39.02	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	0.006640	2.61	23.33	28.93	0.76
Asta 2	1978.093	tr 200	55.66	45.98	47.30		47.55	0.006722	2.75	25.89	30.15	0.78
Asta 2	1978.093	tr 500	66.15	45.98	47.41		47.68	0.006705	2.90	29.33	31.71	0.79
Asta 2	1928.093	tr 50	40.10	45.67	46.78		46.92	0.009845	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	0.007323	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	0.011421	1.35	50.02	29.30	0.27
Asta 2	1828.093	tr 50	40.10	43.20	44.81	44.81	45.16	0.122395	2.62	15.63	24.09	0.76
Asta 2	1828.093	tr 100	47.82	43.20	44.89	44.89	45.29	0.112317	2.63	17.85	25.90	0.74
Asta 2	1828.093	tr 200	55.66	43.20	44.97	44.97	45.42	0.106863	2.66	19.79	27.07	0.72
Asta 2	1828.093	tr 500	66.15	43.20	45.06	45.06	45.58	0.099300	2.68	22.35	28.45	0.71
Asta 2	1778.093	tr 50	40.10	41.60	42.79	42.79	43.13	0.011653	2.64	17.22	28.62	0.94
Asta 2	1778.093	tr 100	47.82	41.60	42.89	42.89	43.26	0.011115	2.78	20.02	30.34	0.93
Asta 2	1778.093	tr 200	55.66	41.60	42.97	42.97	43.38	0.010933	2.92	22.61	31.84	0.94
Asta 2	1778.093	tr 500	66.15	41.60	43.08	43.08	43.52	0.010429	3.05	26.27	33.86	0.93
Asta 2	1728.093	tr 50	40.10	39.71	41.43		41.57	0.006210	1.60	24.24	24.49	0.42
Asta 2	1728.093	tr 100	47.82	39.71	41.52		41.70	0.006598	1.73	26.72	25.48	0.44
Asta 2	1728.093	tr 200	55.66	39.71	41.62		41.81	0.006898	1.85	29.15	26.41	0.46
Asta 2	1728.093	tr 500	66.15	39.71	41.73		41.96	0.007342	2.00	32.08	27.50	0.48
Asta 2	1678.093	tr 50	40.10	39.99	40.97	40.86	41.18	0.009607	2.16	21.16	33.06	0.75
Asta 2	1678.093	tr 100	47.82	39.99	41.04	40.94	41.29	0.009860	2.32	23.72	34.38	0.77
Asta 2	1678.093	tr 200	55.66	39.99	41.11	41.02	41.39	0.010328	2.48	25.96	35.51	0.80
Asta 2	1678.093	tr 500	66.15	39.99	41.19	41.11	41.51	0.010481	2.65	29.18	37.05	0.81
Asta 2	1628.093	tr 50	40.10	39.43	40.34	40.34	40.63	0.012527	2.44	18.02	33.26	0.95
Asta 2	1628.093	tr 100	47.82	39.43	40.41	40.41	40.74	0.012134	2.58	20.58	34.29	0.96
Asta 2	1628.093	tr 200	55.66	39.43	40.49	40.49	40.84	0.011515	2.69	23.26	35.34	0.95
Asta 2	1628.093	tr 500	66.15	39.43	40.58	40.58	40.96	0.011295	2.85	26.39	36.52	0.95
Asta 2	1578.093	tr 50	40.10	37.98	39.21		39.38	0.006593	1.90	24.10	32.01	0.59
Asta 2	1578.093	tr 100	47.82	37.98	39.30		39.49	0.006765	2.03	27.05	33.56	0.60
Asta 2	1578.093	tr 200	55.66	37.98	39.39		39.60	0.006850	2.15	30.00	35.03	0.62
Asta 2	1578.093	tr 500	66.15	37.98	39.48		39.72	0.007319	2.33	33.15	36.54	0.65
Asta 2	1534.492	tr 50	40.10	37.84	38.63	38.59	38.85	0.029036	2.11	19.77	38.22	0.84
Asta 2	1534.492	tr 100	47.82	37.84	38.68	38.66	38.94	0.030716	2.29	21.77	39.42	0.87
Asta 2	1534.492	tr 200	55.66	37.84	38.72	38.72	39.03	0.032817	2.47	23.52	40.45	0.92
Asta 2	1534.492	tr 500	66.15	37.84	38.80	38.80	39.14	0.031079	2.58	26.81	42.12	0.91
Asta 2	1478.093	tr 50	40.10	36.73	37.53	37.53	37.80	0.012880	2.36	18.05	35.44	0.96
Asta 2	1478.093	tr 100	47.82	36.73	37.60	37.60	37.89	0.012299	2.48	20.67	37.03	0.95
Asta 2	1478.093	tr 200	55.66	36.73	37.67	37.67	37.99	0.011706	2.58	23.33	38.58	0.94
Asta 2	1478.093	tr 500	66.15	36.73	37.75	37.75	38.10	0.011310	2.72	26.60	40.40	0.94
Asta 2	1428.093	tr 50	40.10	35.88	36.57	36.57	36.85	0.013545	2.36	17.48	32.36	0.97
Asta 2	1428.093	tr 100	47.82	35.88	36.65	36.65	36.95	0.012916	2.49	19.88	33.24	0.97
Asta 2	1428.093	tr 200	55.66	35.88	36.71	36.71	37.05	0.012531	2.61	22.14	33.83	0.97
Asta 2	1428.093	tr 500	66.15	35.88	36.80	36.80	37.17	0.012078	2.76	25.05	34.60	0.97
Asta 2	1378.093	tr 50	40.10	34.13	35.33	35.33	35.67	0.010059	2.84	16.87	26.11	0.91
Asta 2	1378.093	tr 100	47.82	34.13	35.44	35.44	35.80	0.009371	2.93	19.79	28.29	0.90
Asta 2	1378.093	tr 200	55.66	34.13	35.69		35.95	0.005267	2.53	27.63	33.47	0.69
Asta 2	1378.093	tr 500	66.15	34.13	36.09		36.24	0.002445	2.04	42.76	43.12	0.49
Asta 2	1333.456	tr 50	40.10	33.98	35.02		35.18	0.004827	2.00	23.70	32.28	0.64
Asta 2	1333.456	tr 100	47.82	33.98	35.38		35.47	0.002025	1.59	36.02	36.37	0.43
Asta 2	1333.456	tr 200	55.66	33.98	35.73		35.80	0.001096	1.36	49.55	40.44	0.33
Asta 2	1333.456	tr 500	66.15	33.98	36.10		36.16	0.000696	1.24	65.53	44.58	0.27
Asta 2	1273.433	tr 50	40.10	33.50	35.02		35.06	0.000636	0.93	51.01	46.98	0.25
Asta 2	1273.433	tr 100	47.82	33.50	35.38		35.41	0.000382	0.84	68.64	51.60	0.20
Asta 2	1273.433	tr 200	55.66	33.50	35.73		35.76	0.000257	0.77	87.62	56.13	0.17
Asta 2	1273.433	tr 500	66.15	33.50	36.11		36.13	0.000195	0.75	109.76	62.03	0.15
Asta 2	1228.216	tr 50	40.10	33.94	34.99		35.02	0.000861	0.81	52.01	61.88	0.27
Asta 2	1228.216	tr 100	47.82	33.94	35.37		35.39	0.000377	0.67	76.23	66.94	0.19
Asta 2	1228.216	tr 200	55.66	33.94	35.73		35.74	0.000217	0.60	101.12	71.82	0.15
Asta 2	1228.216	tr 500	66.15	33.94	36.11		36.12	0.000148	0.56	129.53	78.42	0.13
Asta 2	1185.404	tr 50	40.10	32.01	34.99	33.48	35.00	0.000167	0.55	83.62	64.03	0.10

HEC-RAS Plan: (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	1185.404	tr 100	47.82	32.01	35.37	33.56	35.38	0.000119	0.50	108.92	68.57	0.09
Asta 2	1185.404	tr 200	55.66	32.01	35.73	33.64	35.74	0.000089	0.47	133.94	70.93	0.08
Asta 2	1185.404	tr 500	66.15	32.01	36.10	33.74	36.11	0.000085	0.49	161.93	81.07	0.08
Asta 2	1175.988		Culvert									
Asta 2	1163.703	tr 50	40.10	31.57	32.75	32.75	33.11	0.011157	2.80	15.62	22.17	0.94
Asta 2	1163.703	tr 100	47.82	31.57	32.85	32.85	33.25	0.010596	2.93	17.95	23.06	0.94
Asta 2	1163.703	tr 200	55.66	31.57	32.94	32.94	33.37	0.010325	3.07	20.10	23.92	0.94
Asta 2	1163.703	tr 500	66.15	31.57	33.05	33.05	33.53	0.010092	3.24	22.84	24.95	0.94
Asta 2	1128.093	tr 50	40.10	30.19	31.09	31.09	31.42	0.012048	2.64	16.13	24.91	0.96
Asta 2	1128.093	tr 100	47.82	30.19	31.17	31.17	31.55	0.011569	2.78	18.40	25.88	0.96
Asta 2	1128.093	tr 200	55.66	30.19	31.27	31.27	31.66	0.010861	2.88	20.81	26.73	0.94
Asta 2	1128.093	tr 500	66.15	30.19	31.37	31.37	31.80	0.010669	3.05	23.51	27.53	0.95
Asta 2	1078.093	tr 50	40.10	29.18	30.18	30.18	30.46	0.011143	2.89	18.27	31.24	0.95
Asta 2	1078.093	tr 100	47.82	29.18	30.25	30.25	30.56	0.011217	3.05	20.48	31.74	0.97
Asta 2	1078.093	tr 200	55.66	29.18	30.32	30.32	30.66	0.011225	3.18	22.60	32.11	0.98
Asta 2	1078.093	tr 500	66.15	29.18	30.40	30.40	30.78	0.010970	3.31	25.48	32.61	0.98
Asta 2	1028.093	tr 50	40.10	28.34	29.50	29.50	29.85	0.010625	2.73	16.34	24.81	0.92
Asta 2	1028.093	tr 100	47.82	28.34	29.60	29.60	29.97	0.010115	2.86	18.87	26.27	0.92
Asta 2	1028.093	tr 200	55.66	28.34	29.69	29.69	30.09	0.009776	2.98	21.31	27.60	0.91
Asta 2	1028.093	tr 500	66.15	28.34	29.80	29.80	30.23	0.009464	3.13	24.44	29.21	0.91
Asta 2	978.0931	tr 50	40.10	27.07	28.34		28.60	0.006188	2.51	18.94	23.08	0.74
Asta 2	978.0931	tr 100	47.82	27.07	28.45		28.74	0.006142	2.65	21.51	24.01	0.75
Asta 2	978.0931	tr 200	55.66	27.07	28.55		28.86	0.006082	2.77	23.95	24.63	0.75
Asta 2	978.0931	tr 500	66.15	27.07	28.67		29.02	0.005985	2.91	27.08	25.40	0.76
Asta 2	928.0933	tr 50	40.10	26.70	28.21		28.37	0.002854	1.85	24.82	25.74	0.51
Asta 2	928.0933	tr 100	47.82	26.70	28.32		28.49	0.003011	2.00	27.57	26.55	0.53
Asta 2	928.0933	tr 200	55.66	26.70	28.41		28.61	0.003158	2.14	30.17	27.29	0.55
Asta 2	928.0933	tr 500	66.15	26.70	28.54		28.76	0.003300	2.30	33.58	28.35	0.57
Asta 2	878.0931	tr 50	40.10	26.05	27.86	27.51	28.03	0.029957	1.76	22.48	29.67	0.47
Asta 2	878.0931	tr 100	47.82	26.05	27.94	27.72	28.14	0.031256	1.86	24.79	31.37	0.48
Asta 2	878.0931	tr 200	55.66	26.05	28.00	27.79	28.24	0.033532	1.98	26.66	32.70	0.50
Asta 2	878.0931	tr 500	66.15	26.05	28.07	27.88	28.38	0.034578	2.07	29.29	33.96	0.51
Asta 2	828.0932	tr 50	40.10	24.39	25.56	25.56	25.95	0.059879	2.71	15.04	20.81	0.90
Asta 2	828.0932	tr 100	47.82	24.39	25.66	25.66	26.09	0.054278	2.81	17.35	22.08	0.88
Asta 2	828.0932	tr 200	55.66	24.39	25.78	25.78	26.22	0.048068	2.86	19.90	23.50	0.85
Asta 2	828.0932	tr 500	66.15	24.39	25.90	25.90	26.38	0.044984	2.98	22.84	25.33	0.84
Asta 2	778.0932	tr 50	40.10	23.02	24.19	24.19	24.54	0.015235	2.86	18.39	27.93	0.89
Asta 2	778.0932	tr 100	47.82	23.02	24.28	24.28	24.67	0.014988	2.99	21.10	29.03	0.89
Asta 2	778.0932	tr 200	55.66	23.02	24.37	24.37	24.79	0.014806	3.12	23.71	30.06	0.89
Asta 2	778.0932	tr 500	66.15	23.02	24.48	24.48	24.94	0.014819	3.28	26.95	31.34	0.90
Asta 2	728.0932	tr 50	40.10	21.00	22.44		22.63	0.028947	1.78	21.67	24.25	0.53
Asta 2	728.0932	tr 100	47.82	21.00	22.52		22.76	0.029404	1.91	23.84	24.90	0.55
Asta 2	728.0932	tr 200	55.66	21.00	22.61		22.89	0.029303	2.01	26.03	25.50	0.56
Asta 2	728.0932	tr 500	66.15	21.00	22.72		23.04	0.029336	2.14	28.75	26.24	0.57
Asta 2	664.3973	tr 50	40.10	18.98	20.21	20.21	20.69	0.031045	2.87	14.04	15.82	0.87
Asta 2	664.3973	tr 100	47.82	18.98	20.33	20.33	20.86	0.029040	2.99	16.01	16.21	0.86
Asta 2	664.3973	tr 200	55.66	18.98	20.45	20.45	21.03	0.027728	3.11	17.87	16.54	0.86
Asta 2	664.3973	tr 500	66.15	18.98	20.60	20.60	21.24	0.026061	3.25	20.33	16.90	0.85
Asta 3	604.1613	tr 50	62.72	16.56	18.38	18.38	18.91	0.027863	3.28	20.06	19.39	0.86
Asta 3	604.1613	tr 100	74.77	16.56	18.53	18.53	19.11	0.026394	3.42	22.94	20.56	0.86
Asta 3	604.1613	tr 200	86.96	16.56	18.66	18.66	19.28	0.024999	3.54	25.75	21.36	0.85
Asta 3	604.1613	tr 500	103.24	16.56	18.83	18.83	19.51	0.023378	3.66	29.43	22.35	0.84
Asta 3	578.0931	tr 50	62.72	15.62	16.86	16.86	17.35	0.017000	3.16	20.86	22.14	0.99
Asta 3	578.0931	tr 100	74.77	15.62	16.99	16.99	17.54	0.016029	3.33	23.76	22.55	0.98
Asta 3	578.0931	tr 200	86.96	15.62	17.10	17.10	17.71	0.015639	3.51	26.38	22.92	0.99
Asta 3	578.0931	tr 500	103.24	15.62	17.25	17.25	17.93	0.015008	3.70	29.84	23.33	0.99
Asta 3	528.0932	tr 50	62.72	14.00	15.29	15.25	15.76	0.010104	3.34	28.83	29.53	0.95
Asta 3	528.0932	tr 100	74.77	14.00	15.42	15.38	15.94	0.009928	3.54	32.80	30.29	0.96
Asta 3	528.0932	tr 200	86.96	14.00	15.56	15.51	16.12	0.009612	3.71	36.86	30.94	0.96
Asta 3	528.0932	tr 500	103.24	14.00	15.75	15.66	16.34	0.008821	3.84	42.77	31.79	0.94
Asta 3	478.0931	tr 50	62.72	11.98	14.08	14.08	14.58	0.104516	3.19	20.67	19.47	0.74
Asta 3	478.0931	tr 100	74.77	11.98	14.19	14.19	14.76	0.109358	3.39	22.87	20.37	0.76
Asta 3	478.0931	tr 200	86.96	11.98	14.28	14.28	14.95	0.116293	3.60	24.65	20.61	0.79
Asta 3	478.0931	tr 500	103.24	11.98	14.36	14.36	15.21	0.131380	3.92	26.34	20.84	0.85
Asta 3	428.0933	tr 50	62.72	9.92	11.40		11.76	0.007498	2.72	24.66	20.19	0.73
Asta 3	428.0933	tr 100	74.77	9.92	11.61		11.99	0.006504	2.78	29.11	21.11	0.69

HEC-RAS Plan: (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 3	428.0933	tr 200	86.96	9.92	11.82		12.20	0.005821	2.84	33.49	21.98	0.67
Asta 3	428.0933	tr 500	103.24	9.92	12.08		12.49	0.005201	2.93	40.42	31.63	0.64
Asta 3	378.0931	tr 50	62.72	9.52	11.51		11.57	0.000868	1.25	55.80	36.05	0.30
Asta 3	378.0931	tr 100	74.77	9.52	11.74		11.81	0.000802	1.30	64.17	36.95	0.29
Asta 3	378.0931	tr 200	86.96	9.52	11.95		12.03	0.000761	1.35	72.22	38.05	0.29
Asta 3	378.0931	tr 500	103.24	9.52	12.22		12.31	0.000792	1.49	84.14	46.64	0.30
Asta 3	328.0933	tr 50	62.72	8.03	10.78	10.78	11.42	0.007143	3.72	18.74	15.00	0.91
Asta 3	328.0933	tr 100	74.77	8.03	10.95	10.95	11.65	0.007077	3.94	21.29	15.64	0.92
Asta 3	328.0933	tr 200	86.96	8.03	11.12	11.12	11.87	0.006841	4.10	24.01	16.44	0.92
Asta 3	328.0933	tr 500	103.24	8.03	11.31	11.31	12.15	0.006736	4.33	27.36	17.50	0.92
Asta 3	278.0932	tr 50	62.72	5.73	8.10	8.10	8.91	0.005810	4.27	17.66	16.37	0.91
Asta 3	278.0932	tr 100	74.77	5.73	8.50	8.50	9.15	0.004012	3.97	25.02	19.37	0.78
Asta 3	278.0932	tr 200	86.96	5.73	8.66	8.66	9.35	0.004057	4.15	28.18	20.16	0.79
Asta 3	278.0932	tr 500	103.24	5.73	8.85	8.85	9.60	0.004184	4.39	31.97	21.15	0.81
Asta 3	228.0932	tr 50	62.72	5.06	7.32	7.32	7.97	0.007158	3.77	18.61	14.98	0.95
Asta 3	228.0932	tr 100	74.77	5.06	7.50	7.50	8.21	0.006869	3.96	21.35	15.73	0.94
Asta 3	228.0932	tr 200	86.96	5.06	7.66	7.66	8.43	0.006692	4.15	23.97	16.46	0.94
Asta 3	228.0932	tr 500	103.24	5.06	7.87	7.87	8.70	0.006426	4.35	27.52	17.55	0.94
Asta 3	178.0933	tr 50	62.72	3.72	6.35	6.35	6.84	0.003832	3.39	24.06	24.23	0.73
Asta 3	178.0933	tr 100	74.77	3.72	6.49	6.49	7.02	0.003907	3.57	27.64	24.89	0.74
Asta 3	178.0933	tr 200	86.96	3.72	6.61	6.61	7.18	0.004084	3.78	30.65	25.43	0.76
Asta 3	178.0933	tr 500	103.24	3.72	6.76	6.76	7.39	0.004230	4.00	34.57	26.11	0.79
Asta 3	128.0932	tr 50	62.72	2.78	5.11	5.11	5.72	0.006911	3.81	19.29	15.90	0.92
Asta 3	128.0932	tr 100	74.77	2.78	5.28	5.28	5.95	0.006744	4.00	22.08	16.76	0.92
Asta 3	128.0932	tr 200	86.96	2.78	5.43	5.43	6.16	0.006696	4.20	24.68	17.52	0.93
Asta 3	128.0932	tr 500	103.24	2.78	5.64	5.64	6.41	0.006342	4.36	28.49	18.58	0.92
Asta 3	82.0579	tr 50	62.72	2.00	3.62	3.62	4.22	0.006904	3.61	19.39	17.13	0.94
Asta 3	82.0579	tr 100	74.77	2.00	3.79	3.79	4.44	0.006555	3.79	22.44	18.37	0.94
Asta 3	82.0579	tr 200	86.96	2.00	3.91	3.91	4.64	0.006819	4.05	24.77	19.54	0.97
Asta 3	82.0579	tr 500	103.24	2.00	4.09	4.09	4.91	0.006877	4.33	28.70	27.16	0.98
Asta 3	67.52119	tr 50	62.72	1.98	3.38	3.38	3.89	0.008085	3.71	20.81	21.71	1.01
Asta 3	67.52119	tr 100	74.77	1.98	3.57	3.57	3.94	0.005725	3.41	30.92	36.43	0.87
Asta 3	67.52119	tr 200	86.96	1.98	3.65	3.65	4.06	0.005882	3.58	33.96	36.86	0.89
Asta 3	67.52119	tr 500	103.24	1.98	3.74	3.74	4.21	0.006247	3.82	37.39	37.40	0.92
Asta 3	28.38959	tr 50	62.72	0.85	2.67	2.67	3.01	0.001277	3.26	27.99	35.30	0.82
Asta 3	28.38959	tr 100	74.77	0.85	2.76	2.76	3.13	0.001340	3.46	31.07	35.51	0.85
Asta 3	28.38959	tr 200	86.96	0.85	2.84	2.84	3.25	0.001396	3.64	33.96	35.70	0.87
Asta 3	28.38959	tr 500	103.24	0.85	2.94	2.94	3.40	0.001453	3.85	37.60	35.94	0.90
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	1.80	0.78	1.88	0.000163	1.30	82.74	50.36	0.30

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Modello 7 – Gruppo rio Scamunigada

Aste torrentizie studiate:

rio Crabolu

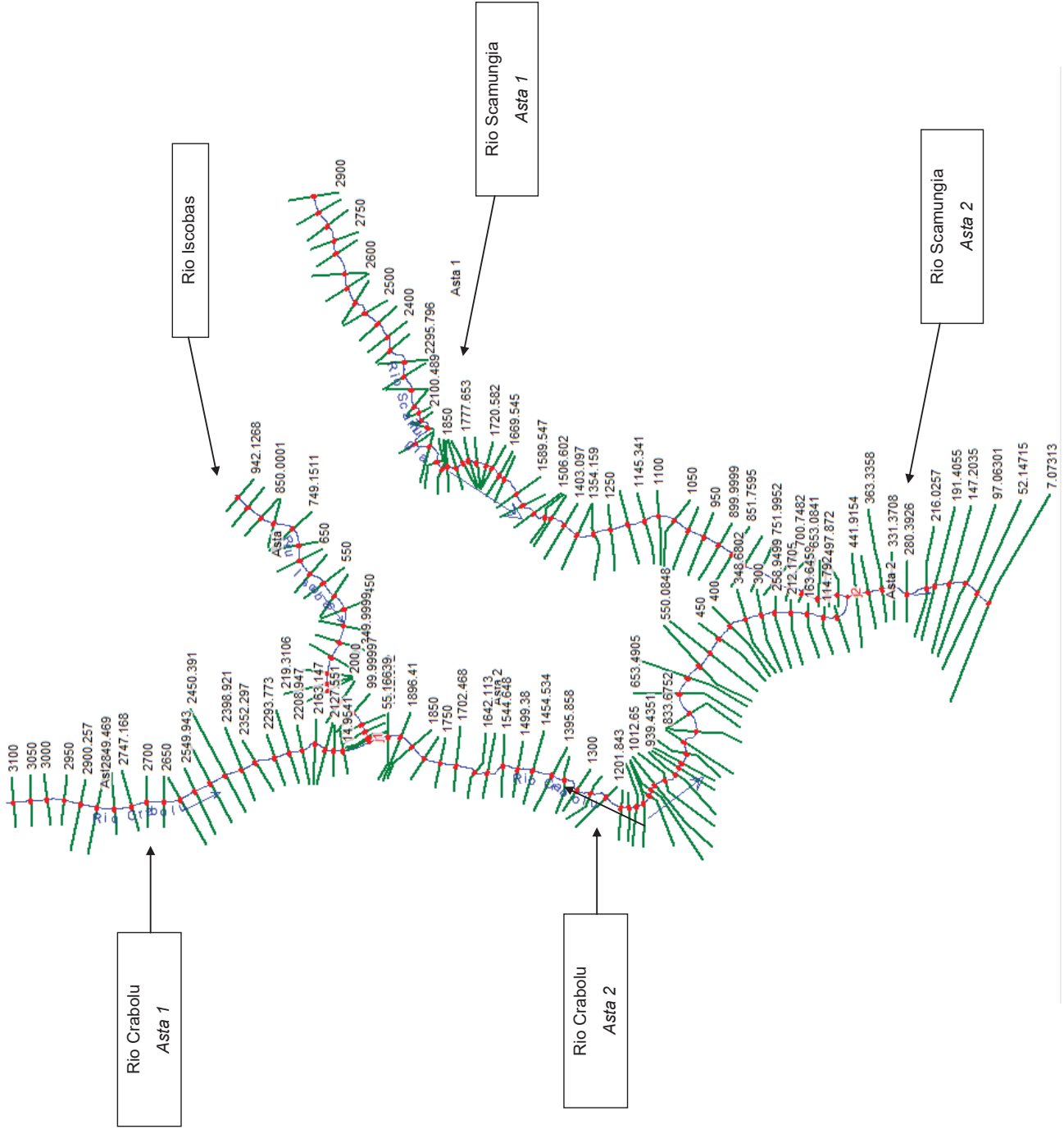
Rio Iscobas

Rio Scamunigada

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

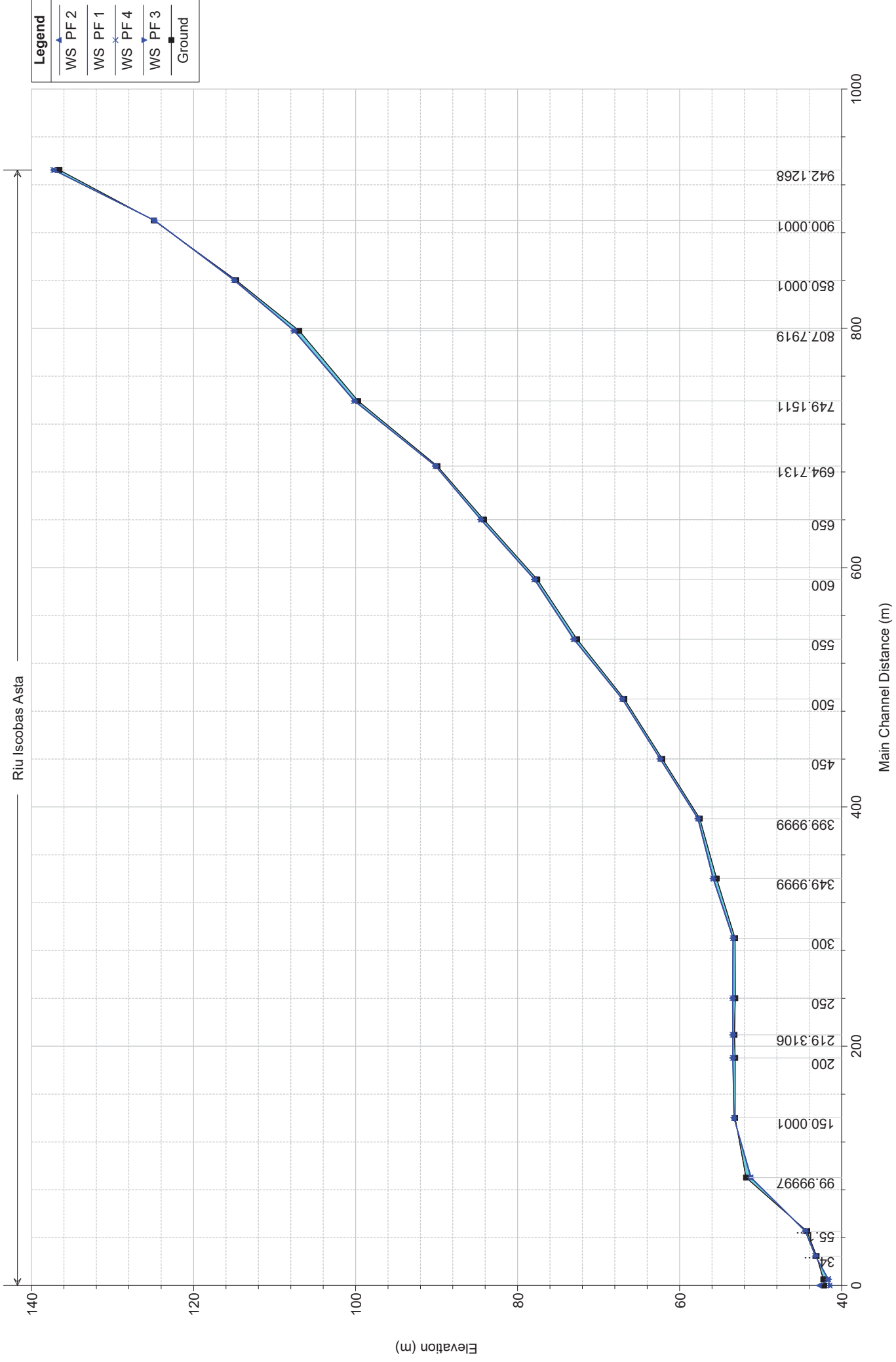
River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
Rio Crabolu	Asta 1	3100	17,727	20,586	23,513	27,606
Rio Crabolu	Asta 2	1,932,672	39,131	46,314	53,611	63,517
Rio Scamunigada	Asta 1	2900	13,461	15.82	18,244	21,634
Rio Scamunigada	Asta 1	1000	22.51	26,724	31.04	36,994
Rio Scamunigada	Asta 2	4,419,154	59,825	71,386	83,155	99.1
Riu Iscobas	Asta	9,421,268	5.16	5.83	6.54	7.58

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Rio Crabolu	Asta 1	all	Critical Depth	Junction=j1
Rio Crabolu	Asta 2	all	Junction=j1	Junction=j2
Rio Scamunigada	Asta 1	all	Critical Depth	Junction=j2
Rio Scamunigada	Asta 2	all	Junction=j2	Known WS
Riu Iscobas	Asta	all	Critical Depth	Junction=j1



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

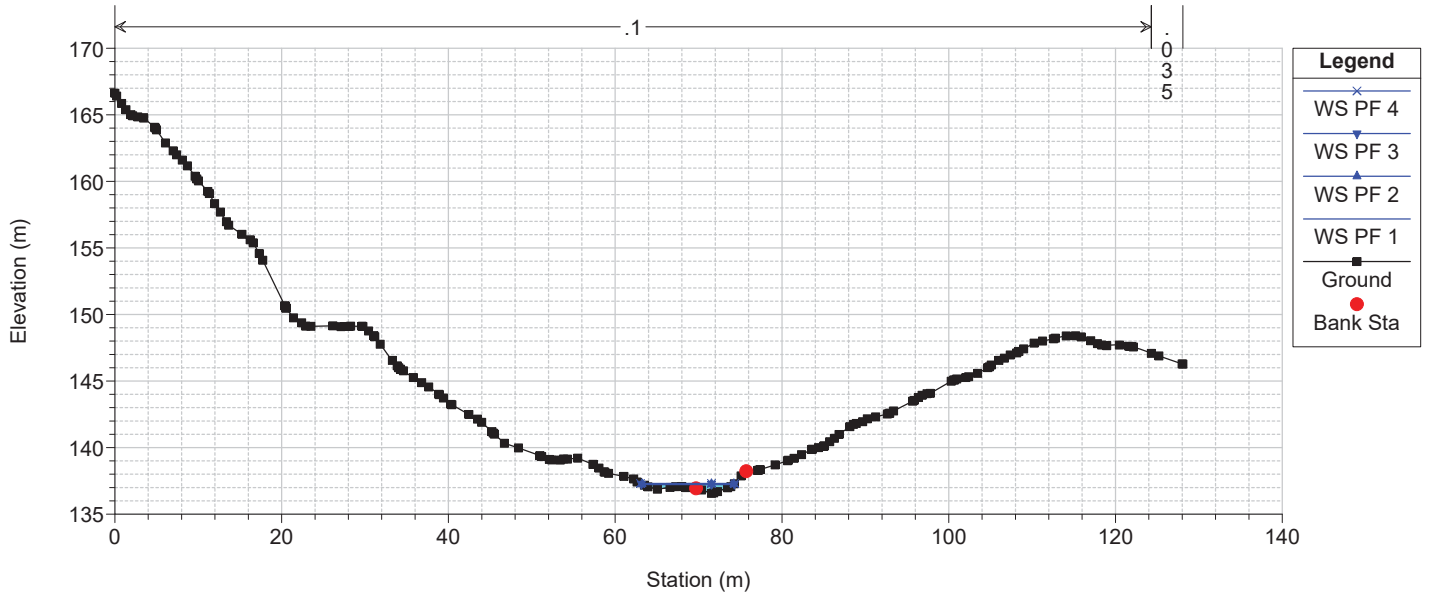


Legend	
WS PF 2	▲
WS PF 1	■
WS PF 4	×
WS PF 3	▼
Ground	■

scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

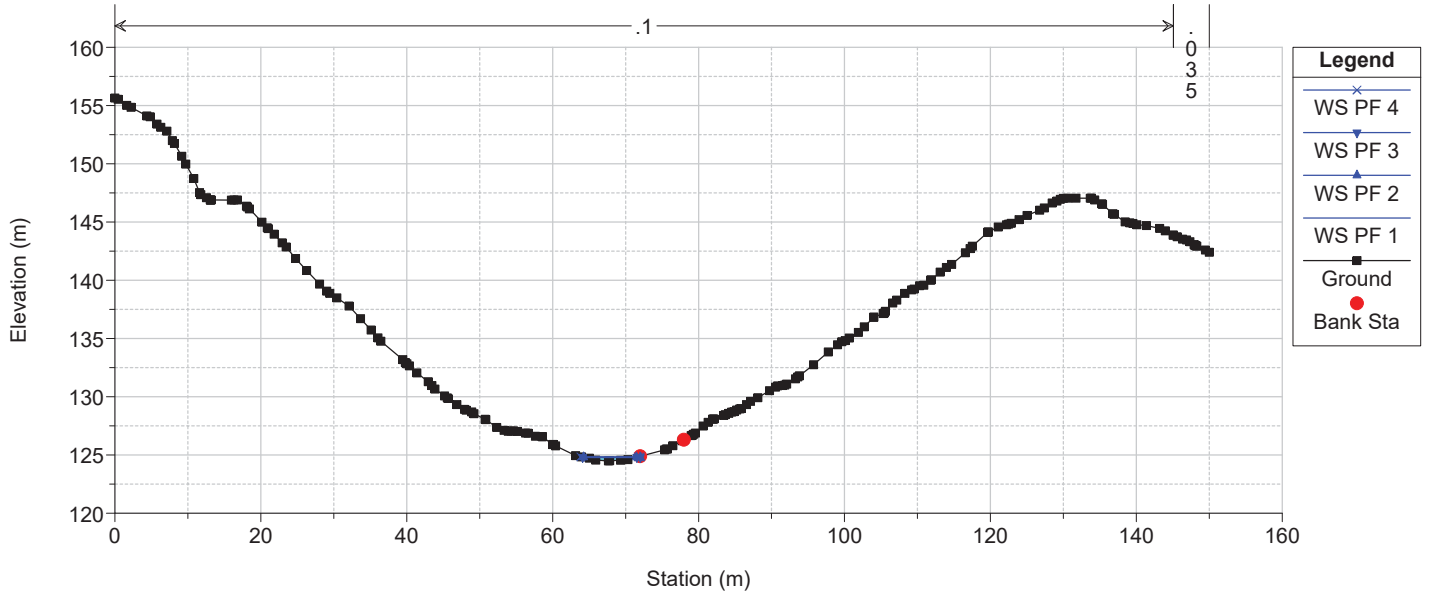
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scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

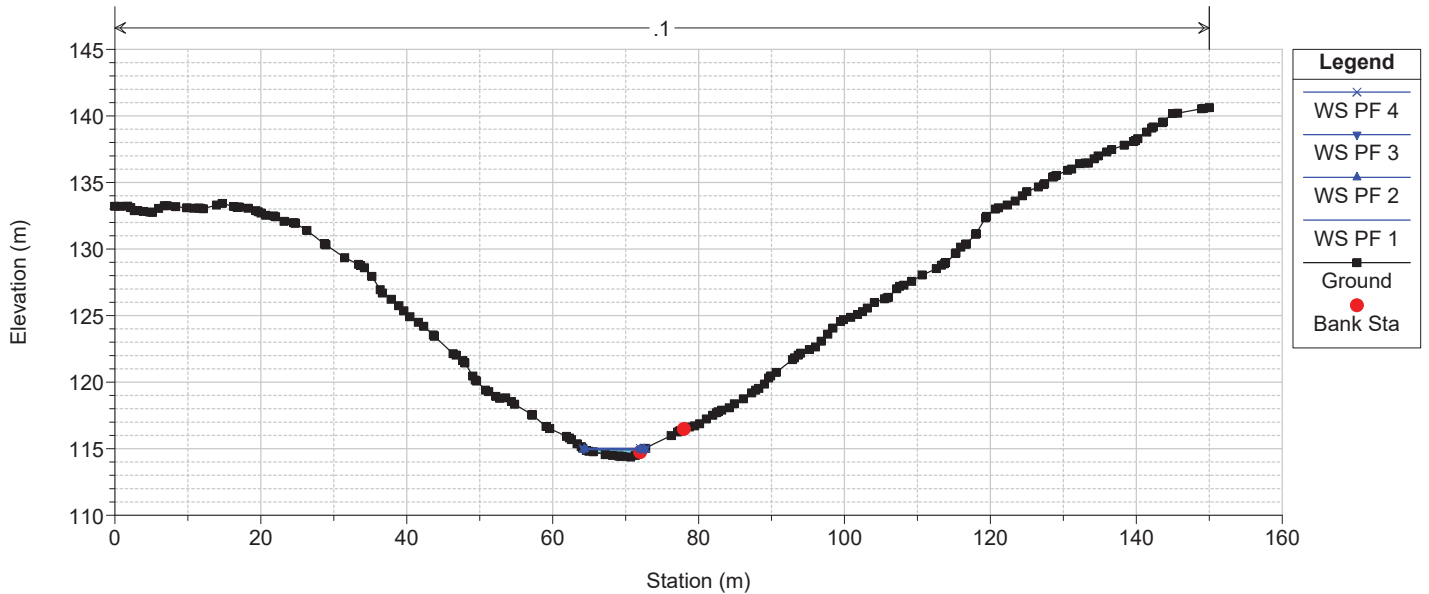
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scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

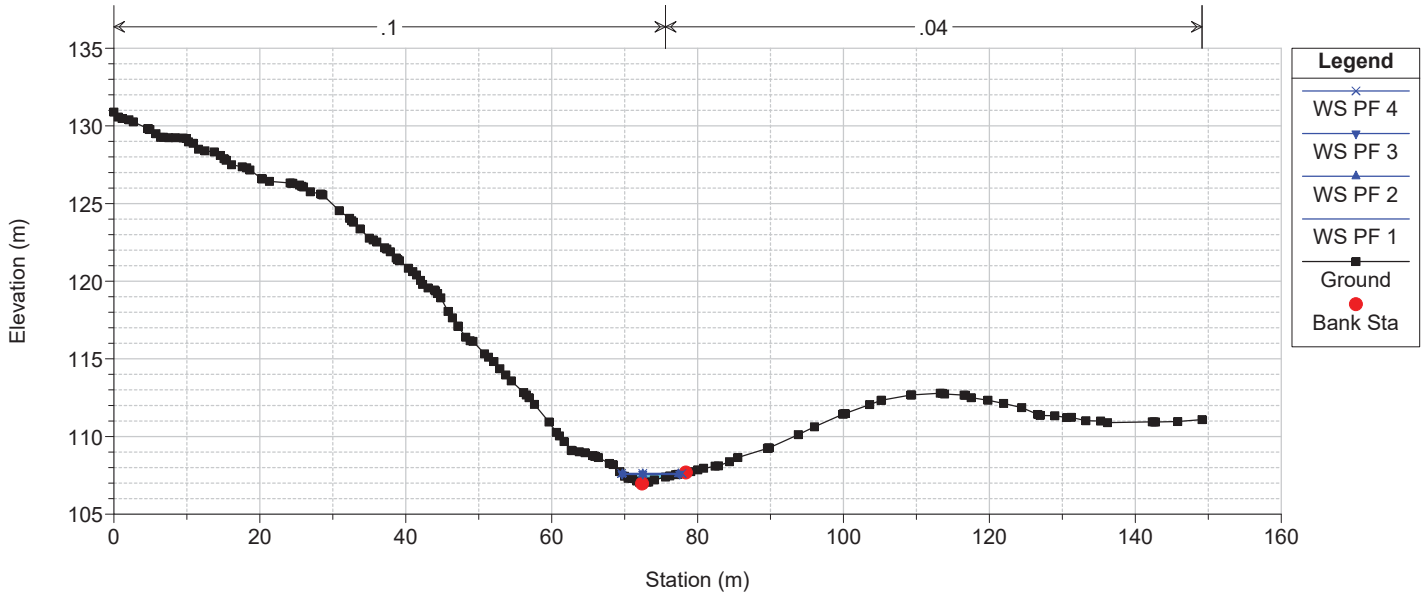
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scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

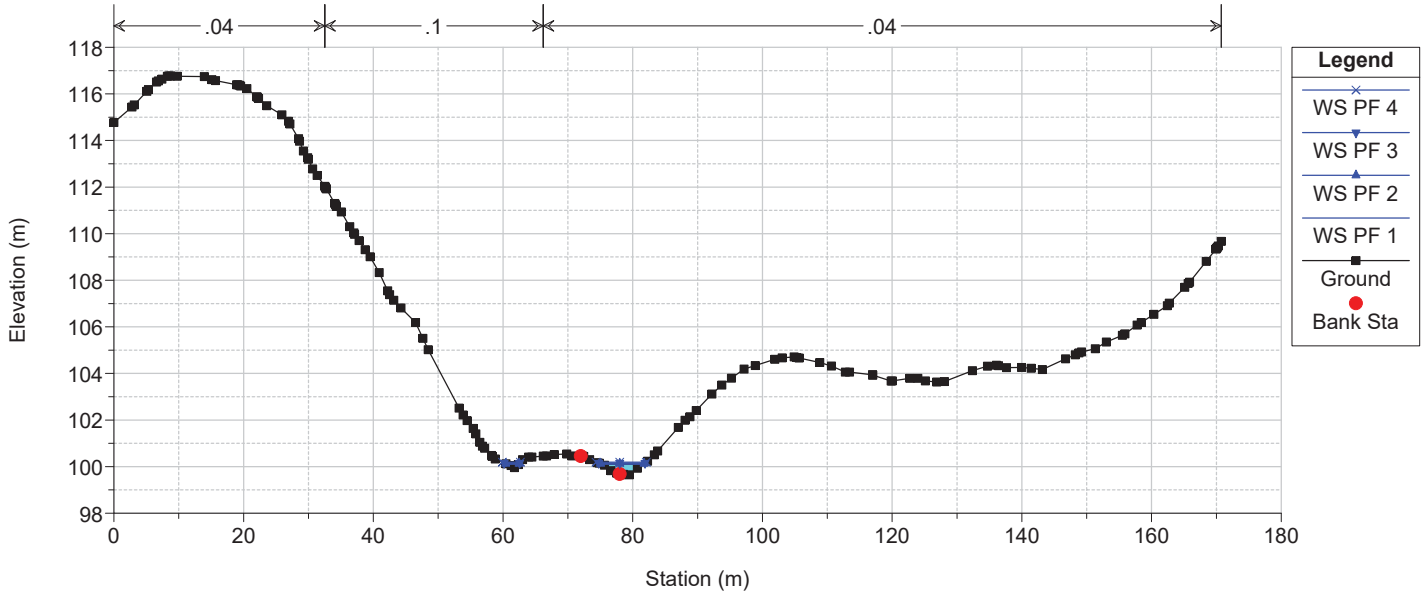
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scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

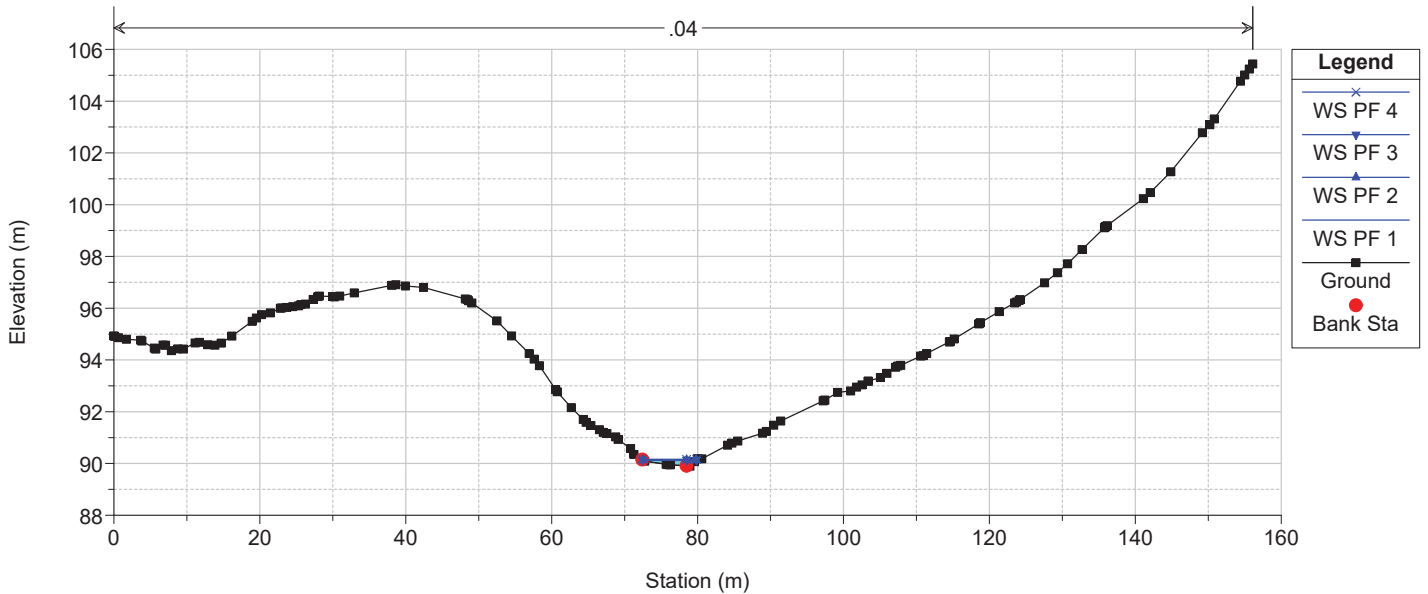
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scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

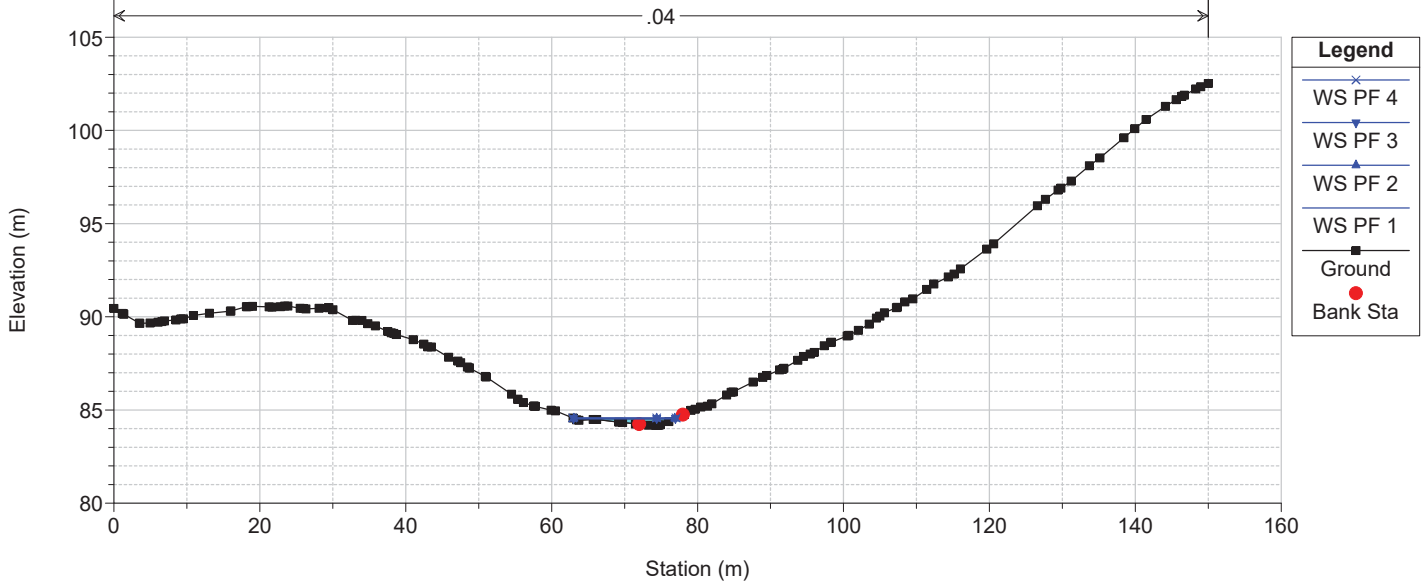
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scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

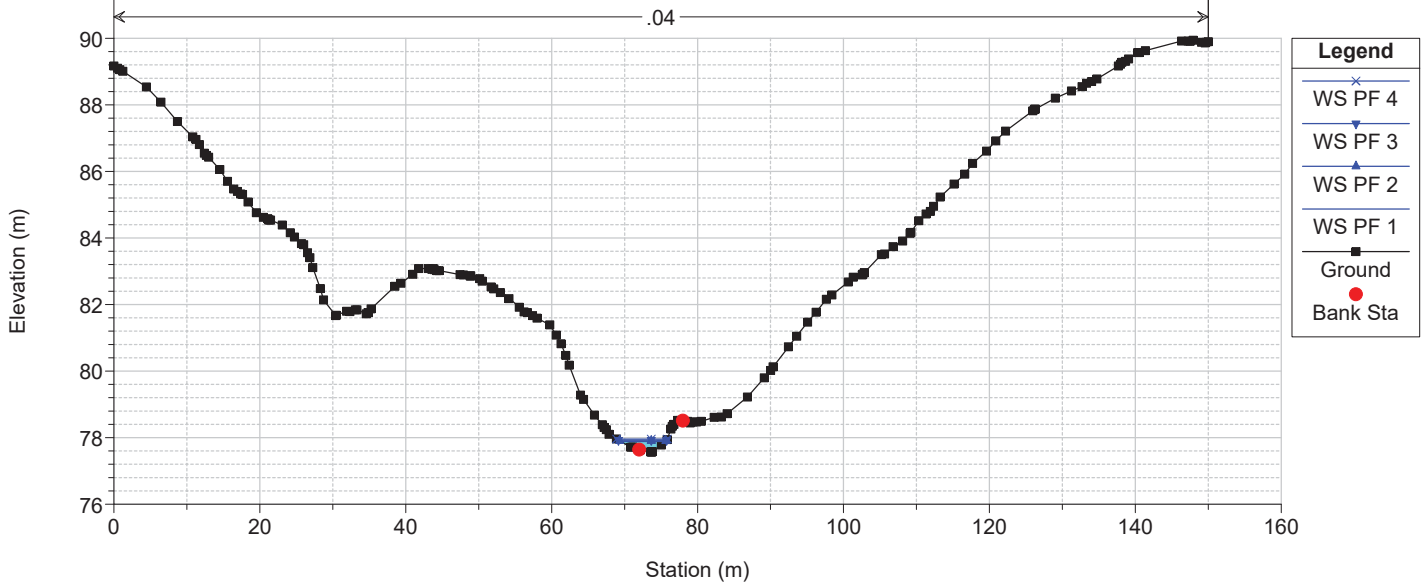
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scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

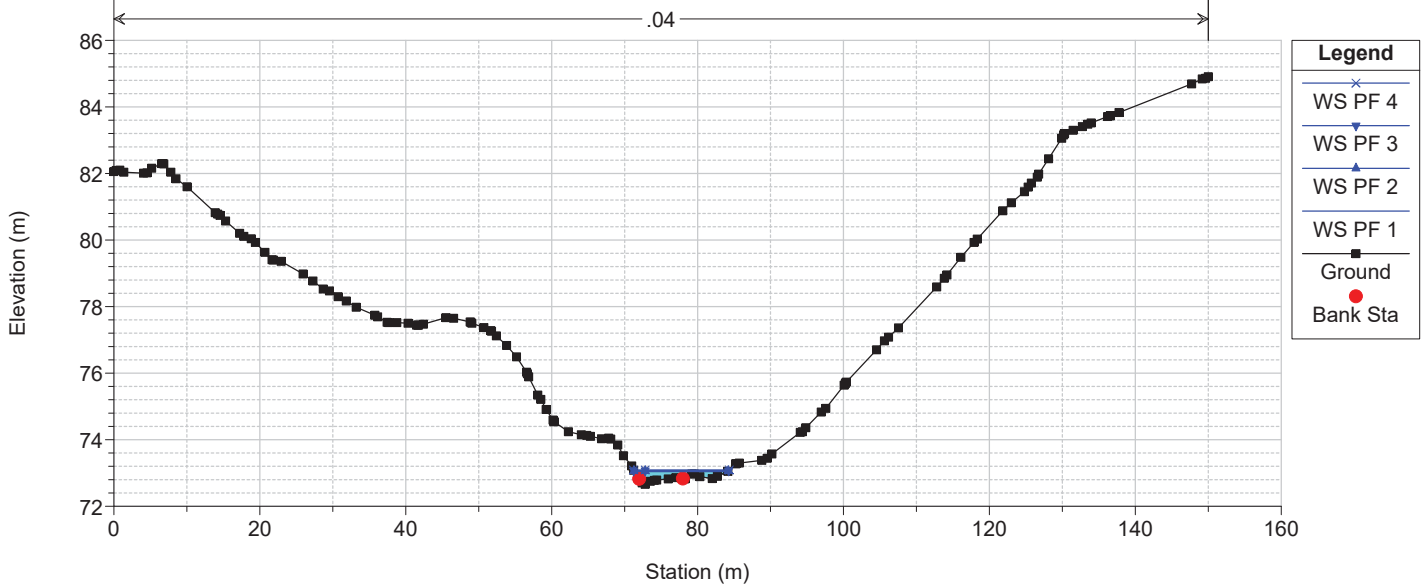
River = Riu Iscobas Reach = Asta RS = 600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

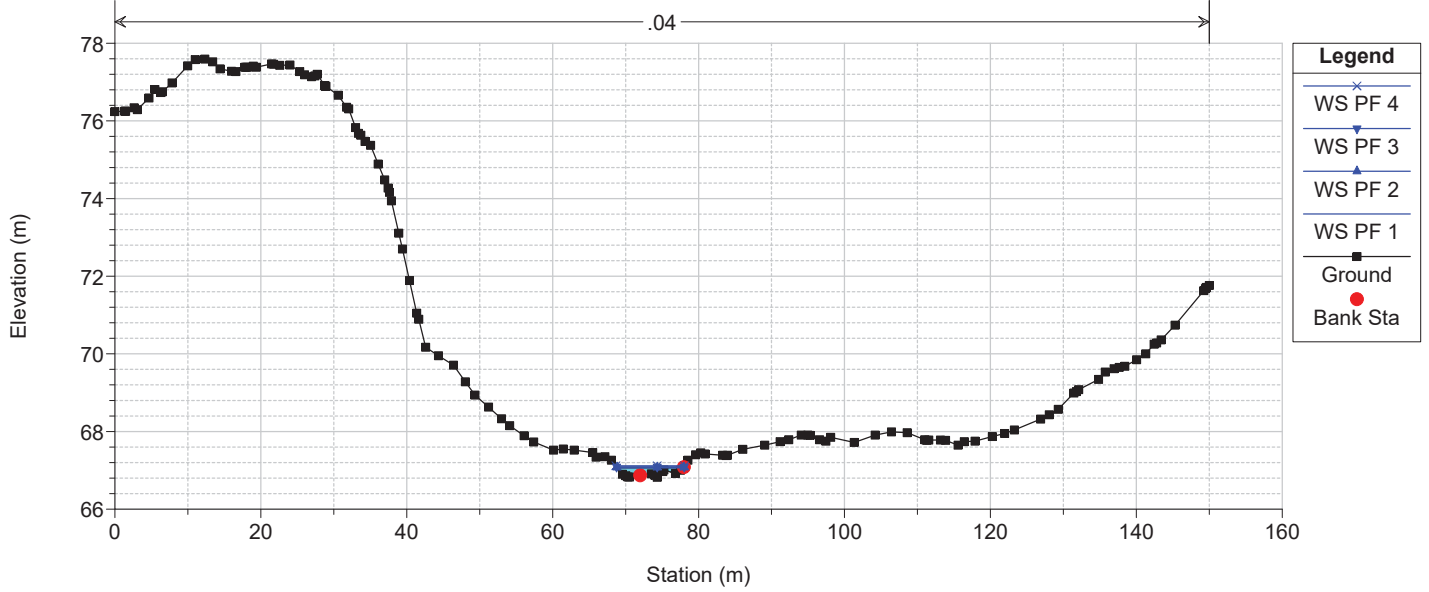
River = Riu Iscobas Reach = Asta RS = 550 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

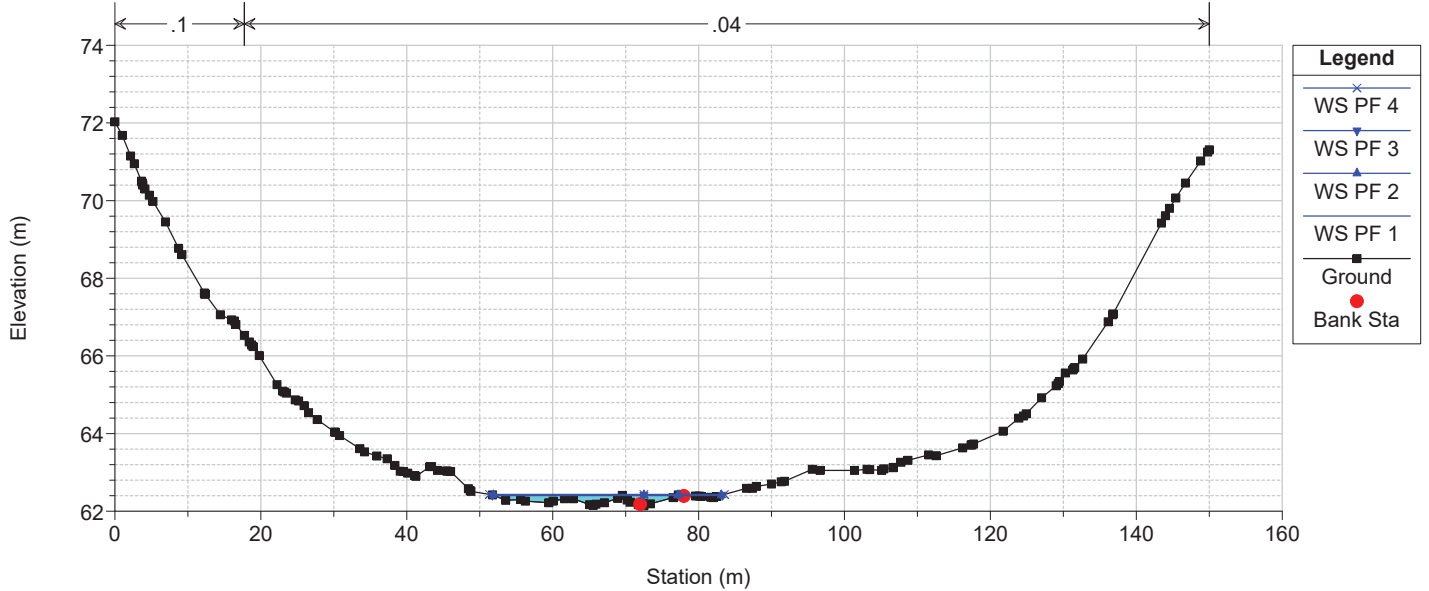
River = Riu Iscobas Reach = Asta RS = 500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

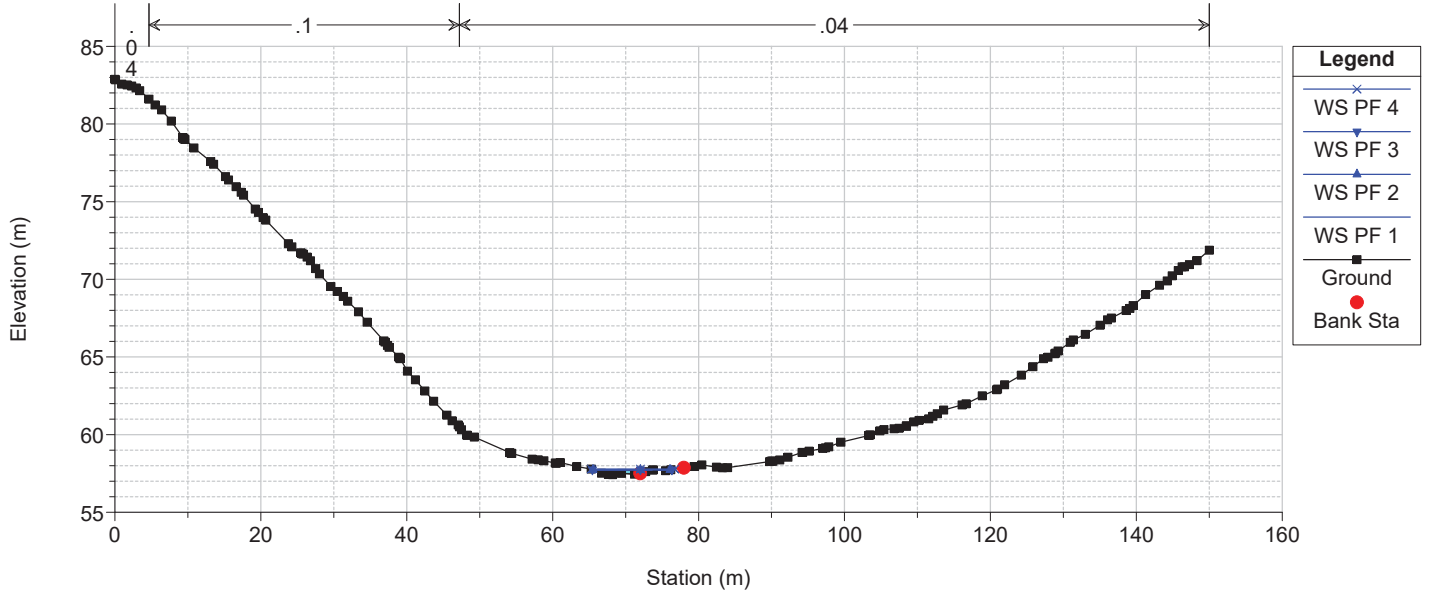
River = Riu Iscobas Reach = Asta RS = 450 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

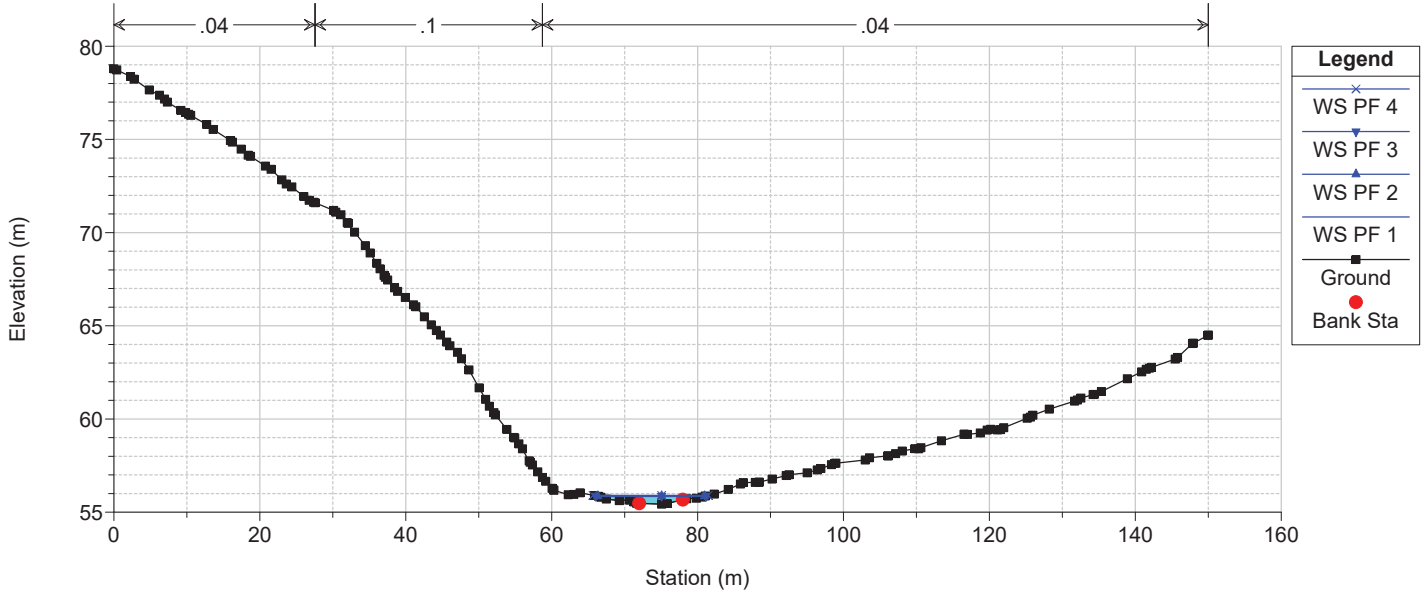
River = Riu Iscobas Reach = Asta RS = 399.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

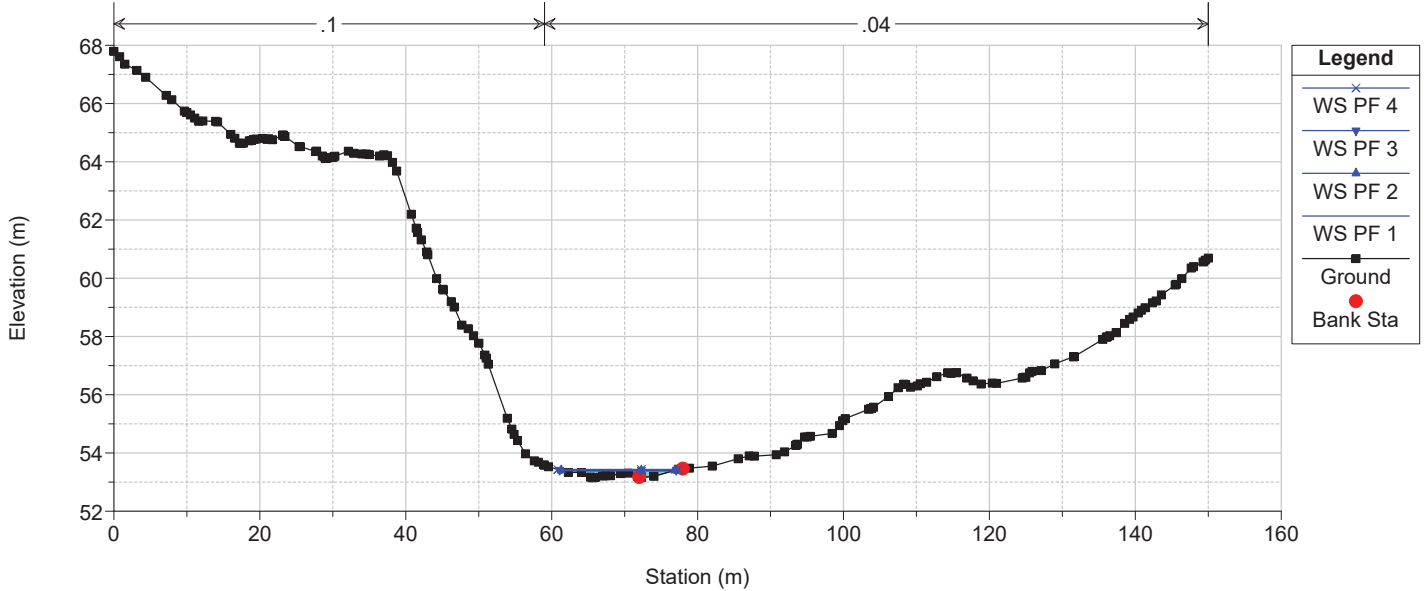
River = Riu Iscobas Reach = Asta RS = 349.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

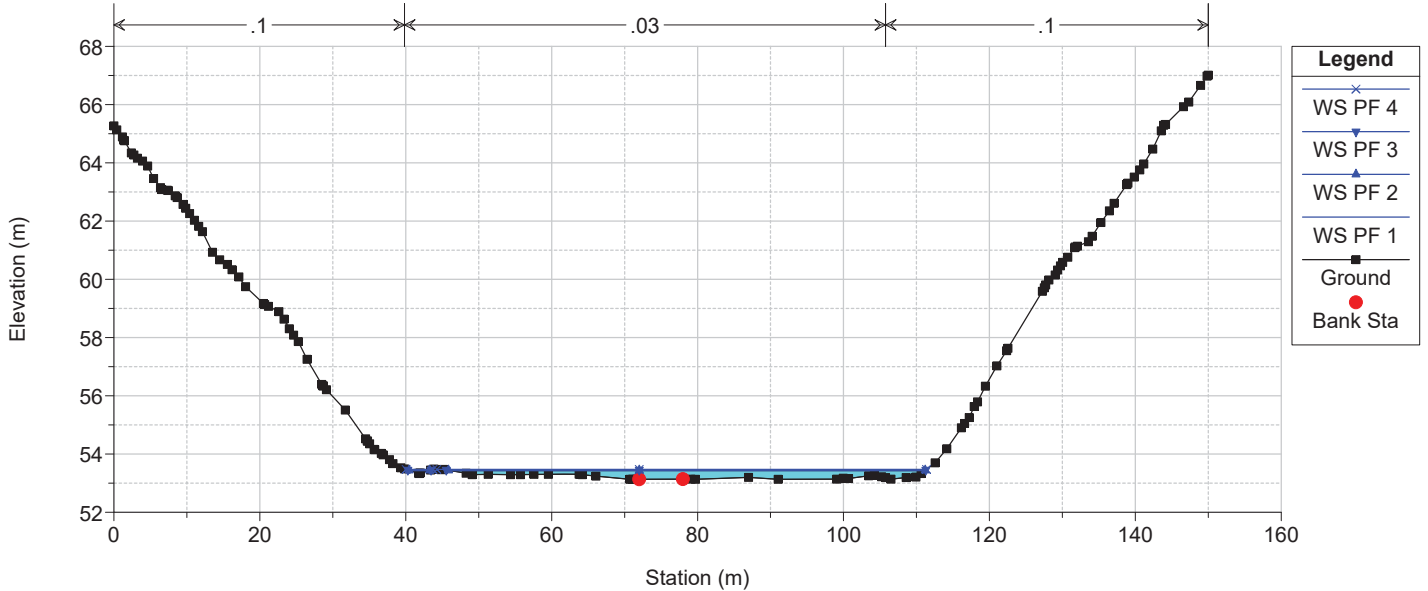
River = Riu Iscobas Reach = Asta RS = 300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

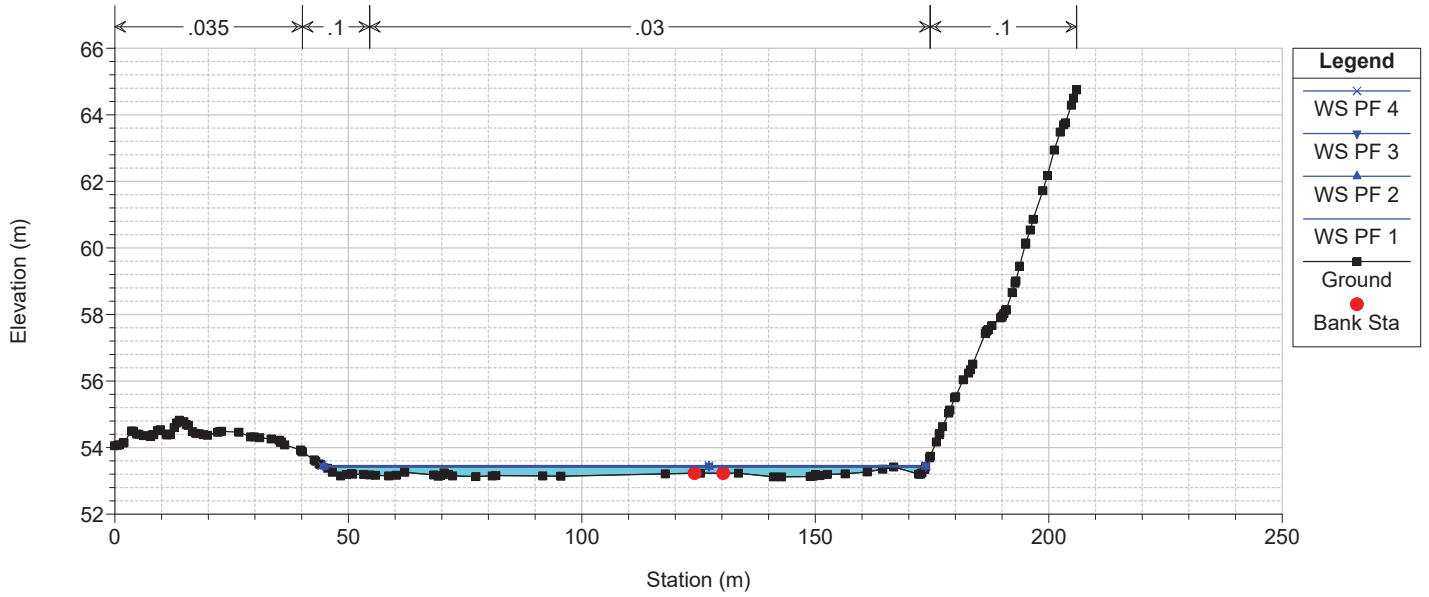
River = Riu Iscobas Reach = Asta RS = 250 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

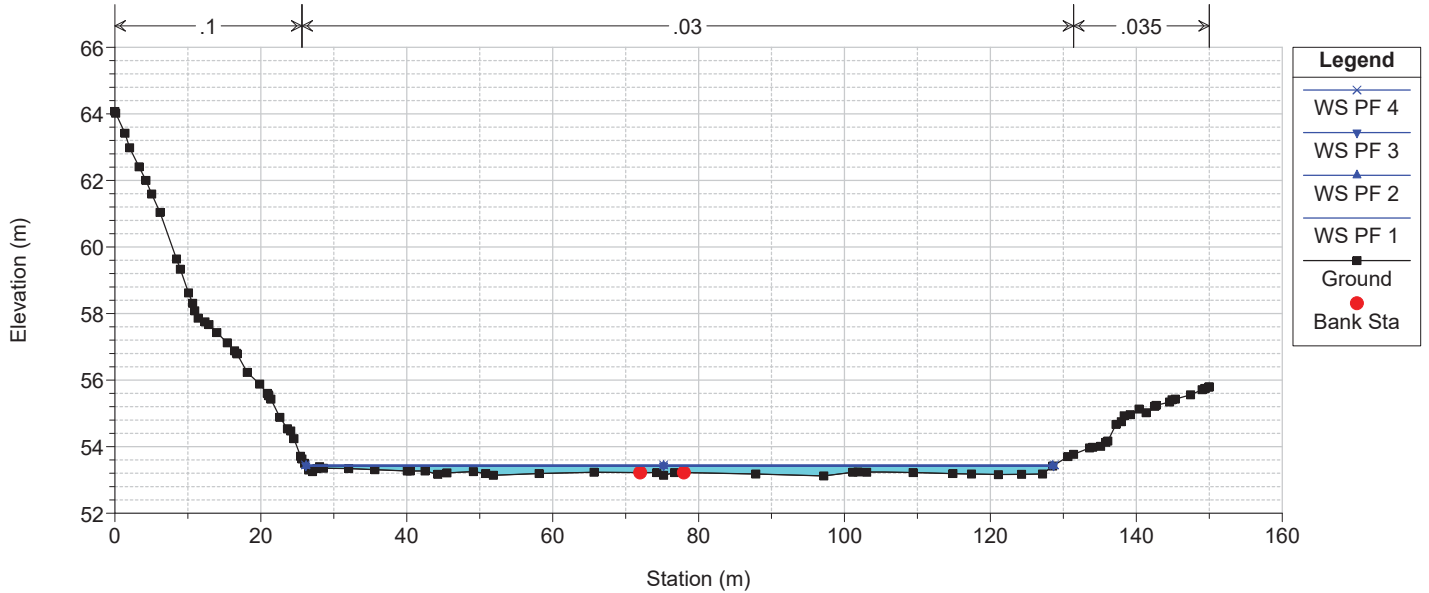
River = Riu Iscobas Reach = Asta RS = 219.3106 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

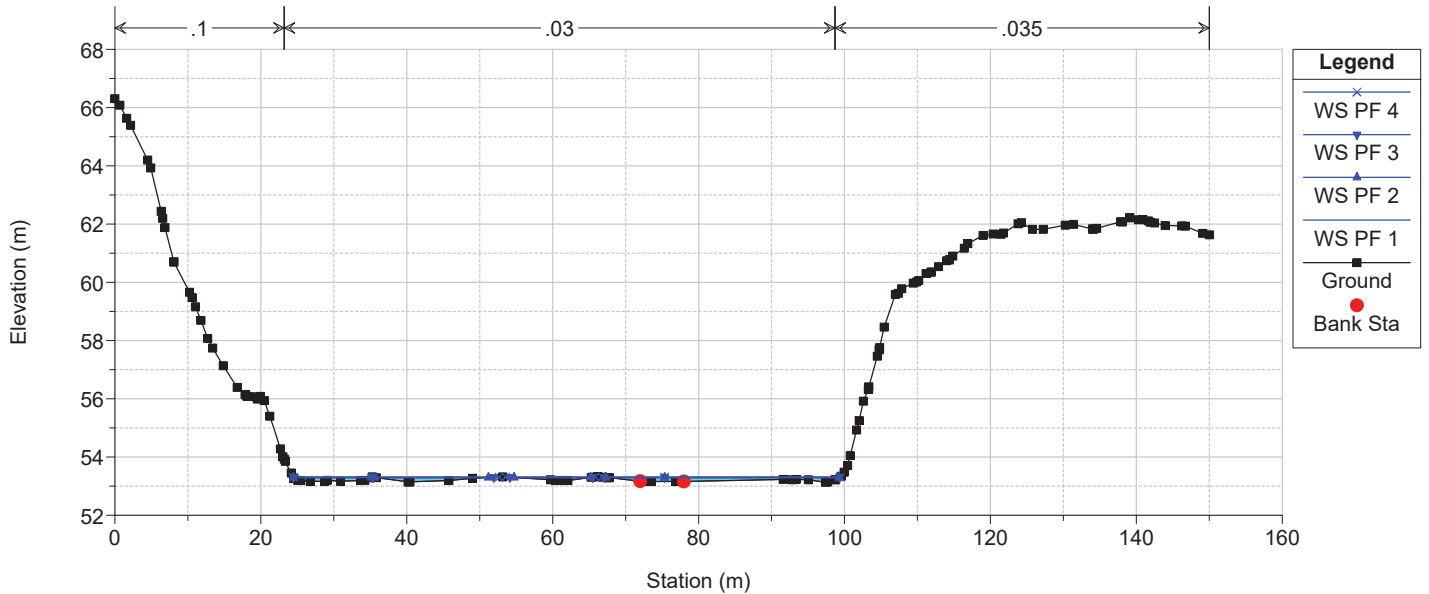
River = Riu Iscobas Reach = Asta RS = 200 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

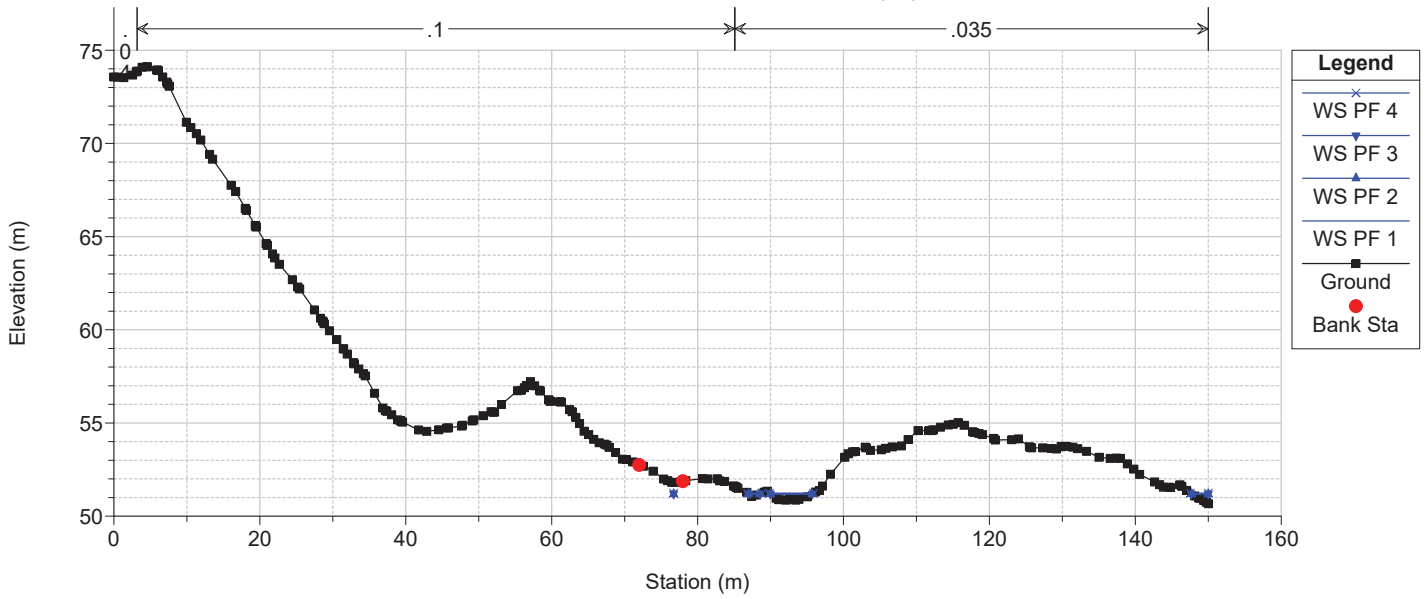
River = Riu Iscobas Reach = Asta RS = 150.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

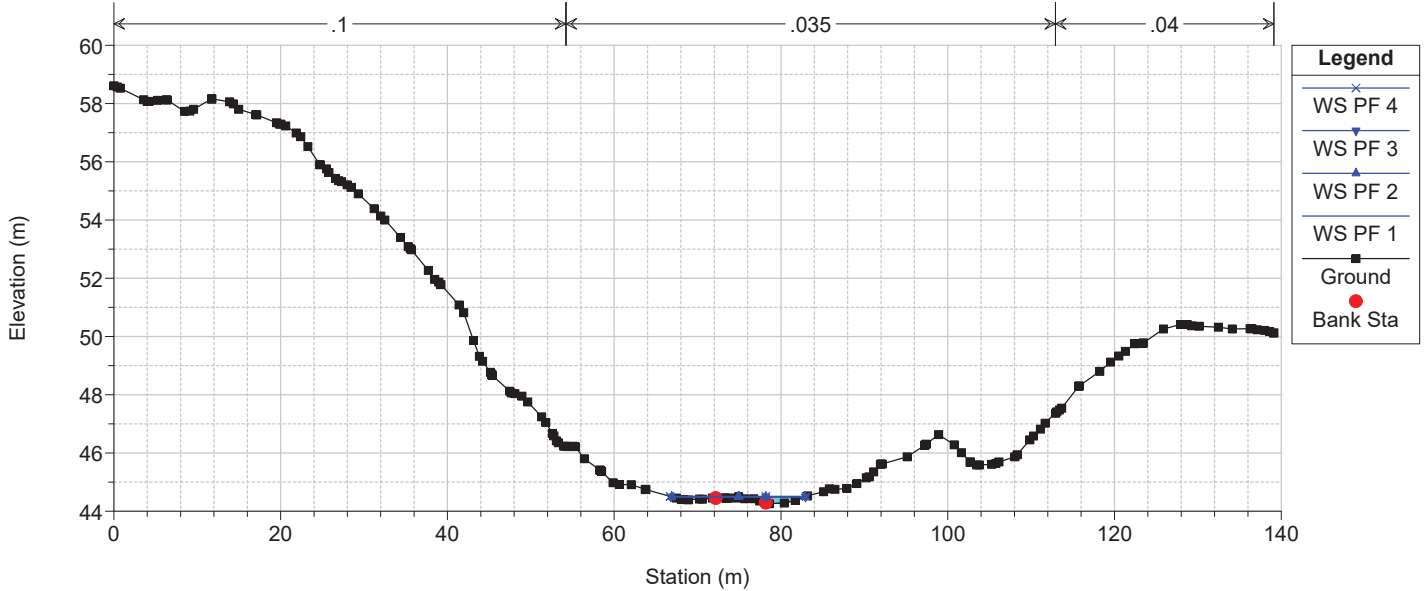
River = Riu Iscobas Reach = Asta RS = 99.99997 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

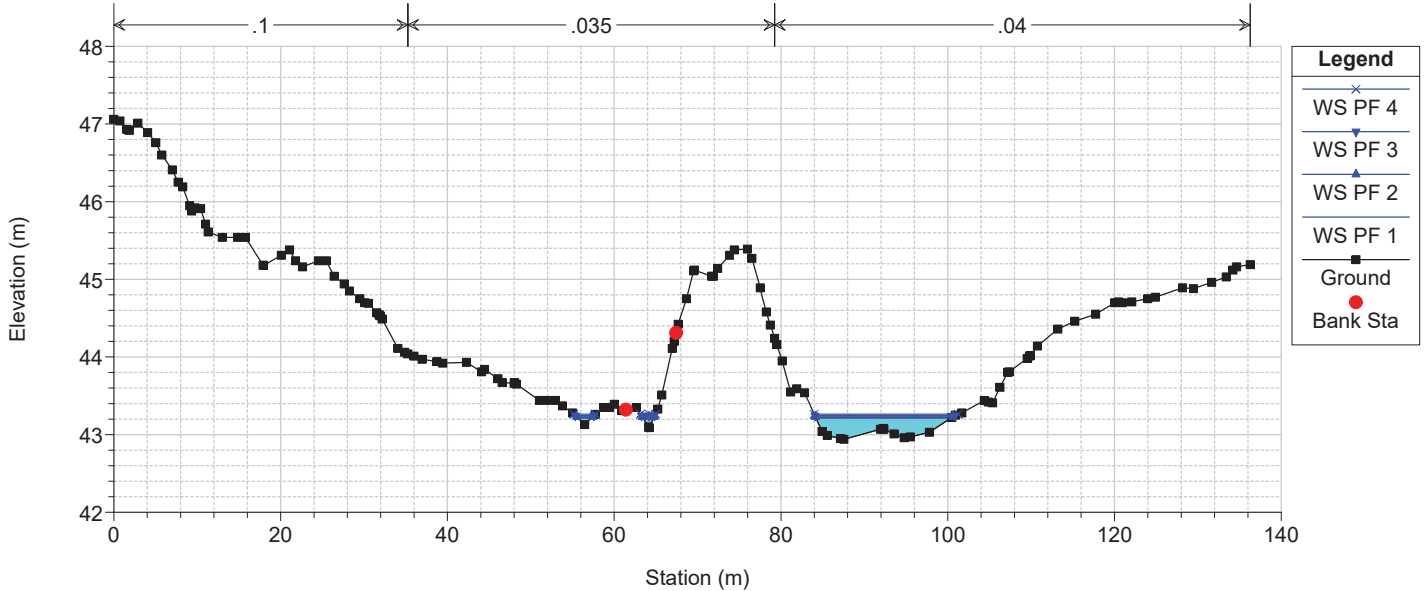
River = Riu Iscobas Reach = Asta RS = 55.16639 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

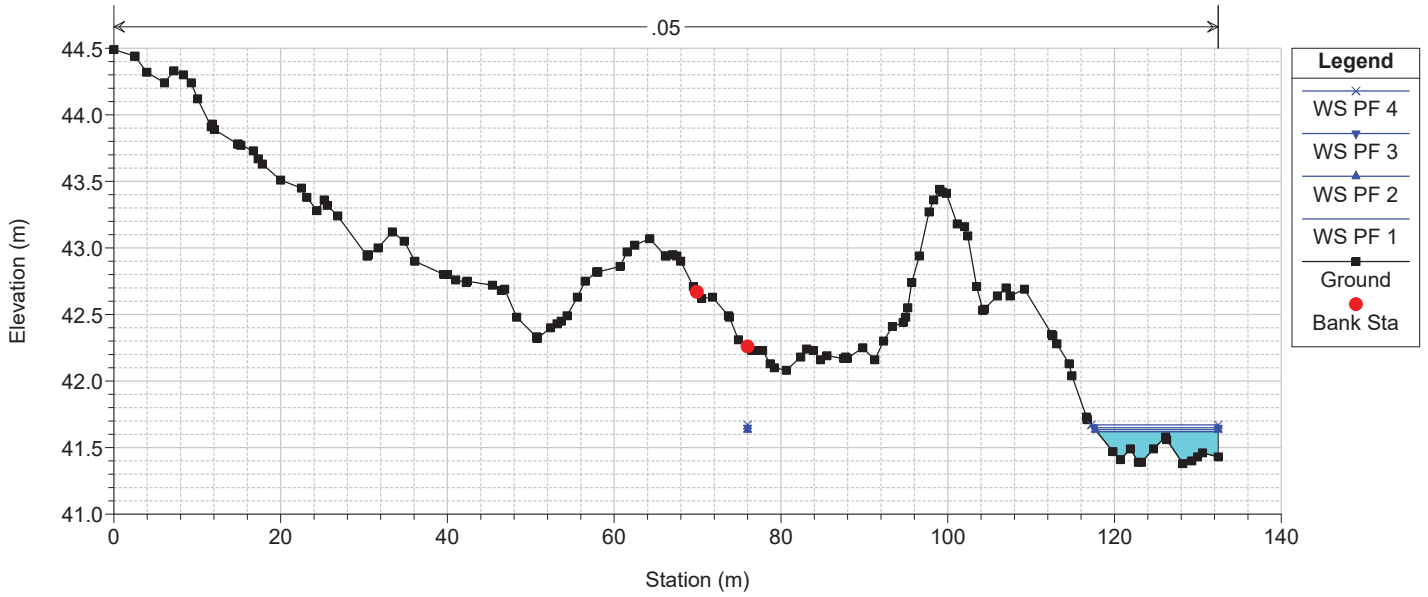
River = Riu Iscobas Reach = Asta RS = 34.30606 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

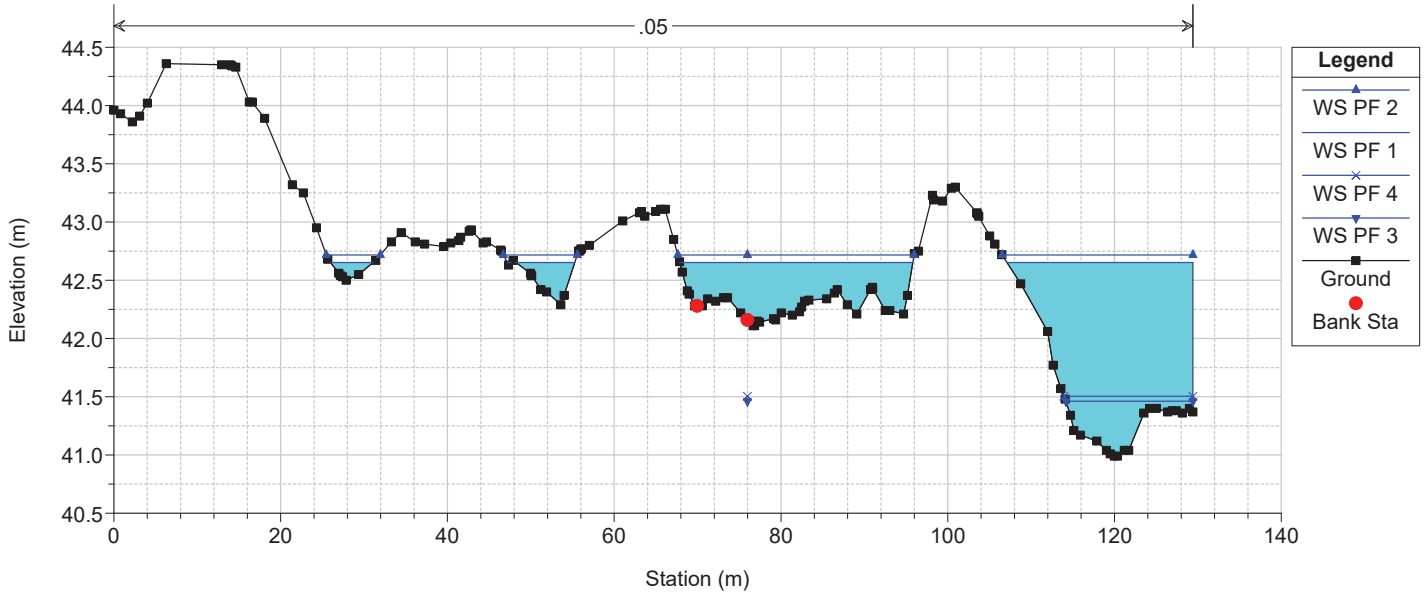
River = Riu Iscobas Reach = Asta RS = 14.9541 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

River = Riu Iscobas Reach = Asta RS = 9.809073 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



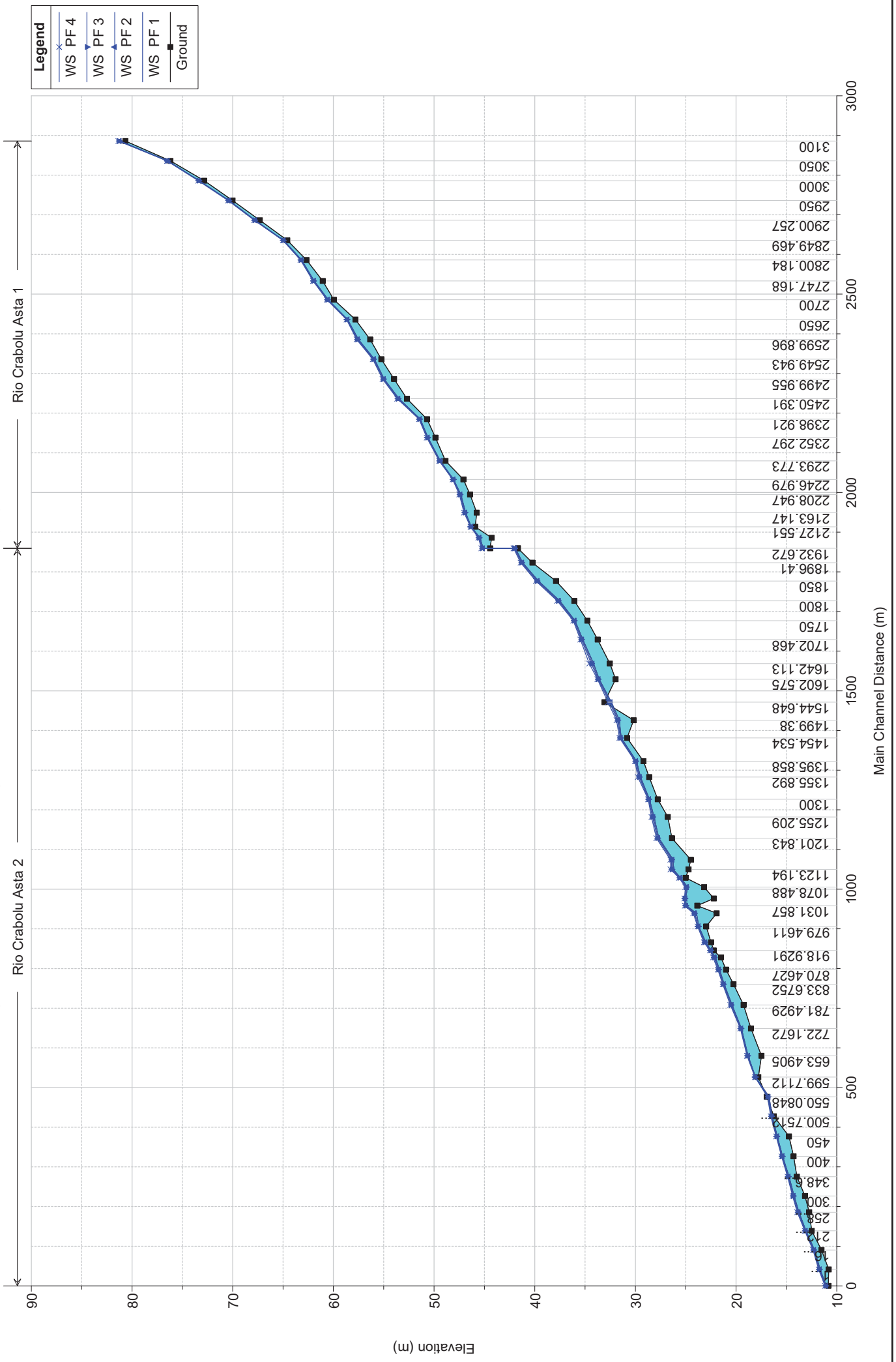
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta	942.1268	PF 1	5.16	136.56	137.22	137.22	137.37	0.113918	1.85	3.26	10.86	0.91
Asta	942.1268	PF 2	5.83	136.56	137.25	137.25	137.40	0.110028	1.89	3.59	11.02	0.91
Asta	942.1268	PF 3	6.54	136.56	137.28	137.28	137.44	0.114530	1.98	3.83	11.14	0.93
Asta	942.1268	PF 4	7.58	136.56	137.31	137.31	137.49	0.116232	2.07	4.21	11.31	0.94
Asta	900.0001	PF 1	5.16	124.89	124.78	124.97	125.58	1.462021		1.30	6.85	0.00
Asta	900.0001	PF 2	5.83	124.89	124.80	125.00	125.59	1.302850		1.48	7.25	0.00
Asta	900.0001	PF 3	6.54	124.89	124.81	125.03	125.70	1.403496		1.57	7.44	0.00
Asta	900.0001	PF 4	7.58	124.89	124.84	125.07	125.77	1.326103		1.78	7.84	0.00
Asta	850.0001	PF 1	5.16	114.74	114.93	114.93	115.11	0.139771	0.74	2.77	8.04	0.77
Asta	850.0001	PF 2	5.83	114.74	114.96	114.96	115.15	0.136030	0.81	3.03	8.21	0.78
Asta	850.0001	PF 3	6.54	114.74	114.99	114.99	115.20	0.132034	0.87	3.30	8.38	0.78
Asta	850.0001	PF 4	7.58	114.74	115.04	115.04	115.26	0.129075	0.96	3.67	8.62	0.80
Asta	807.7919	PF 1	5.16	106.95	107.55	107.64	107.85	0.240281	2.51	2.15	7.40	1.51
Asta	807.7919	PF 2	5.83	106.95	107.58	107.67	107.90	0.248054	2.65	2.31	7.67	1.58
Asta	807.7919	PF 3	6.54	106.95	107.60	107.70	107.96	0.257368	2.80	2.46	7.91	1.64
Asta	807.7919	PF 4	7.58	106.95	107.62	107.74	108.03	0.263924	2.98	2.69	8.25	1.71
Asta	749.1511	PF 1	5.16	99.68	100.10	100.25	100.54	0.076952	2.61	1.85	8.00	1.72
Asta	749.1511	PF 2	5.83	99.68	100.13	100.28	100.59	0.075737	2.65	2.08	8.77	1.72
Asta	749.1511	PF 3	6.54	99.68	100.15	100.31	100.63	0.074457	2.66	2.33	9.50	1.71
Asta	749.1511	PF 4	7.58	99.68	100.19	100.36	100.69	0.073763	2.68	2.69	10.52	1.71
Asta	694.7131	PF 1	5.16	89.91	90.12	90.36	91.52	0.622595	5.17	0.99	7.18	4.50
Asta	694.7131	PF 2	5.83	89.91	90.13	90.39	91.66	0.622261	5.42	1.07	7.28	4.55
Asta	694.7131	PF 3	6.54	89.91	90.14	90.41	91.79	0.622704	5.66	1.15	7.38	4.61
Asta	694.7131	PF 4	7.58	89.91	90.16	90.45	91.96	0.602784	5.95	1.27	7.53	4.61
Asta	650	PF 1	5.16	84.17	84.53	84.60	84.79	0.062054	2.57	2.44	13.68	1.59
Asta	650	PF 2	5.83	84.17	84.54	84.62	84.82	0.063018	2.66	2.65	13.83	1.61
Asta	650	PF 3	6.54	84.17	84.56	84.64	84.86	0.063972	2.75	2.85	13.97	1.63
Asta	650	PF 4	7.58	84.17	84.58	84.67	84.90	0.065799	2.87	3.12	14.17	1.67
Asta	600	PF 1	5.16	77.57	77.89	78.12	78.98	0.290409	4.93	1.14	6.08	3.33
Asta	600	PF 2	5.83	77.57	77.91	78.15	79.04	0.277716	5.02	1.27	6.34	3.29
Asta	600	PF 3	6.54	77.57	77.93	78.18	79.09	0.266279	5.10	1.40	6.60	3.25
Asta	600	PF 4	7.58	77.57	77.95	78.23	79.17	0.248888	5.21	1.59	6.92	3.19
Asta	550	PF 1	5.16	72.66	73.05	73.12	73.29	0.056488	2.39	2.48	12.79	1.51
Asta	550	PF 2	5.83	72.66	73.06	73.14	73.33	0.057835	2.51	2.66	12.92	1.54
Asta	550	PF 3	6.54	72.66	73.07	73.16	73.37	0.059181	2.62	2.85	13.03	1.57
Asta	550	PF 4	7.58	72.66	73.09	73.19	73.42	0.061367	2.79	3.10	13.16	1.62
Asta	500	PF 1	5.16	66.82	67.06	67.23	67.83	0.289299	3.49	1.35	9.03	3.05
Asta	500	PF 2	5.83	66.82	67.08	67.26	67.88	0.272680	3.62	1.49	9.16	3.01
Asta	500	PF 3	6.54	66.82	67.09	67.29	67.92	0.257719	3.76	1.63	9.27	2.98
Asta	500	PF 4	7.58	66.82	67.11	67.33	67.99	0.237769	3.93	1.84	9.43	2.92
Asta	450	PF 1	5.16	62.14	62.40	62.43	62.51	0.048620	1.45	3.60	30.42	1.26
Asta	450	PF 2	5.83	62.14	62.41	62.44	62.53	0.050207	1.50	3.90	31.07	1.28
Asta	450	PF 3	6.54	62.14	62.42	62.46	62.55	0.051858	1.56	4.18	31.58	1.31
Asta	450	PF 4	7.58	62.14	62.43	62.47	62.58	0.054365	1.68	4.56	32.20	1.36
Asta	399.9999	PF 1	5.16	57.50	57.71	57.88	58.31	0.147254	1.45	1.58	9.34	1.90
Asta	399.9999	PF 2	5.83	57.50	57.73	57.90	58.34	0.138161	1.44	1.79	10.55	1.86
Asta	399.9999	PF 3	6.54	57.50	57.75	57.92	58.37	0.130953	1.62	1.99	10.91	1.87
Asta	399.9999	PF 4	7.58	57.50	57.78	57.95	58.41	0.121684	1.82	2.29	11.46	1.88
Asta	349.9999	PF 1	5.16	55.43	55.84	55.85	55.97	0.020618	1.77	3.41	14.31	0.96
Asta	349.9999	PF 2	5.83	55.43	55.86	55.87	56.00	0.021168	1.86	3.68	14.63	0.98
Asta	349.9999	PF 3	6.54	55.43	55.88	55.89	56.04	0.021584	1.95	3.98	15.09	1.00
Asta	349.9999	PF 4	7.58	55.43	55.90	55.92	56.08	0.022184	2.06	4.39	15.79	1.02
Asta	300	PF 1	5.16	53.16	53.39	53.49	53.72	0.152192	2.69	2.03	15.19	2.25
Asta	300	PF 2	5.83	53.16	53.40	53.51	53.75	0.143049	2.70	2.24	15.58	2.21
Asta	300	PF 3	6.54	53.16	53.42	53.52	53.78	0.136666	2.73	2.46	15.96	2.17
Asta	300	PF 4	7.58	53.16	53.44	53.56	53.82	0.128412	2.76	2.78	16.50	2.13
Asta	250	PF 1	5.16	53.13	53.43	53.29	53.43	0.000960	0.45	14.21	67.34	0.27
Asta	250	PF 2	5.83	53.13	53.44	53.29	53.45	0.001003	0.48	15.18	68.15	0.28
Asta	250	PF 3	6.54	53.13	53.45	53.30	53.46	0.001055	0.51	16.09	68.90	0.29
Asta	250	PF 4	7.58	53.13	53.47	53.32	53.48	0.001124	0.54	17.43	70.83	0.30
Asta	219.3106	PF 1	5.16	53.23	53.42		53.42	0.000235	0.17	28.47	128.41	0.12
Asta	219.3106	PF 2	5.83	53.23	53.43		53.43	0.000248	0.18	30.29	128.79	0.13
Asta	219.3106	PF 3	6.54	53.23	53.44		53.45	0.000262	0.19	31.97	129.01	0.13
Asta	219.3106	PF 4	7.58	53.23	53.46		53.47	0.000276	0.21	34.42	129.34	0.14
Asta	200	PF 1	5.16	53.14	53.41		53.41	0.000529	0.27	19.86	102.23	0.19
Asta	200	PF 2	5.83	53.14	53.42		53.43	0.000542	0.28	21.26	102.36	0.19
Asta	200	PF 3	6.54	53.14	53.43		53.44	0.000562	0.30	22.54	102.49	0.20

HEC-RAS Plan: Plan 02 River: Riu Iscobas 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	200	PF 4	7.58	53.14	53.45		53.46	0.000582	0.32	24.42	102.67	0.20
Asta	150.0001	PF 1	5.16	53.16	53.29	53.29	53.33	0.018149	1.14	5.71	66.46	1.02
Asta	150.0001	PF 2	5.83	53.16	53.30	53.30	53.34	0.018078	1.18	6.23	68.68	1.03
Asta	150.0001	PF 3	6.54	53.16	53.30	53.30	53.35	0.017309	1.21	6.84	70.90	1.01
Asta	150.0001	PF 4	7.58	53.16	53.31	53.31	53.37	0.018061	1.28	7.49	73.14	1.05
Asta	99.99997	PF 1	5.16	51.81	51.16	51.30	51.59	0.087429		1.78	8.86	0.00
Asta	99.99997	PF 2	5.83	51.81	51.19	51.32	51.63	0.083689		1.98	9.33	0.00
Asta	99.99997	PF 3	6.54	51.81	51.20	51.35	51.68	0.084871		2.14	9.69	0.00
Asta	99.99997	PF 4	7.58	51.81	51.24	51.38	51.71	0.075573		2.50	10.43	0.00
Asta	55.16639	PF 1	5.16	44.29	44.49	44.62	45.31	0.290731	2.41	1.45	15.58	3.09
Asta	55.16639	PF 2	5.83	44.29	44.49	44.64	45.39	0.307955	2.63	1.56	15.85	3.22
Asta	55.16639	PF 3	6.54	44.29	44.50	44.65	45.41	0.301866	2.80	1.71	16.17	3.25
Asta	55.16639	PF 4	7.58	44.29	44.51	44.68	45.59	0.350615	3.17	1.80	16.29	3.55
Asta	34.30606	PF 1	5.16	43.09	43.21	43.24	43.35	0.039561	0.88	3.23	19.15	1.13
Asta	34.30606	PF 2	5.83	43.09	43.23	43.26	43.37	0.039707	0.95	3.51	19.86	1.15
Asta	34.30606	PF 3	6.54	43.09	43.24	43.28	43.40	0.039951	1.02	3.80	20.53	1.17
Asta	34.30606	PF 4	7.58	43.09	43.26	43.31	43.44	0.040703	1.12	4.22	21.65	1.21
Asta	14.9541	PF 1	5.16	42.26	41.62	41.70	41.88	0.155956		2.27	14.55	0.00
Asta	14.9541	PF 2	5.83	42.26	41.63	41.72	41.92	0.152134		2.48	14.73	0.00
Asta	14.9541	PF 3	6.54	42.26	41.65	41.74	41.95	0.147915		2.69	14.92	0.00
Asta	14.9541	PF 4	7.58	42.26	41.67	41.77	41.99	0.139809		3.02	15.19	0.00
Asta	9.809073	PF 1	5.16	42.16	42.65	41.46	42.65	0.000066	0.08	37.02	62.90	0.04
Asta	9.809073	PF 2	5.83	42.16	42.72	41.47	42.72	0.000067	0.09	41.21	66.53	0.05
Asta	9.809073	PF 3	6.54	42.16	41.46	41.49	41.64	0.061756		3.52	15.24	0.00
Asta	9.809073	PF 4	7.58	42.16	41.50	41.52	41.67	0.048264		4.17	15.46	0.00

scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

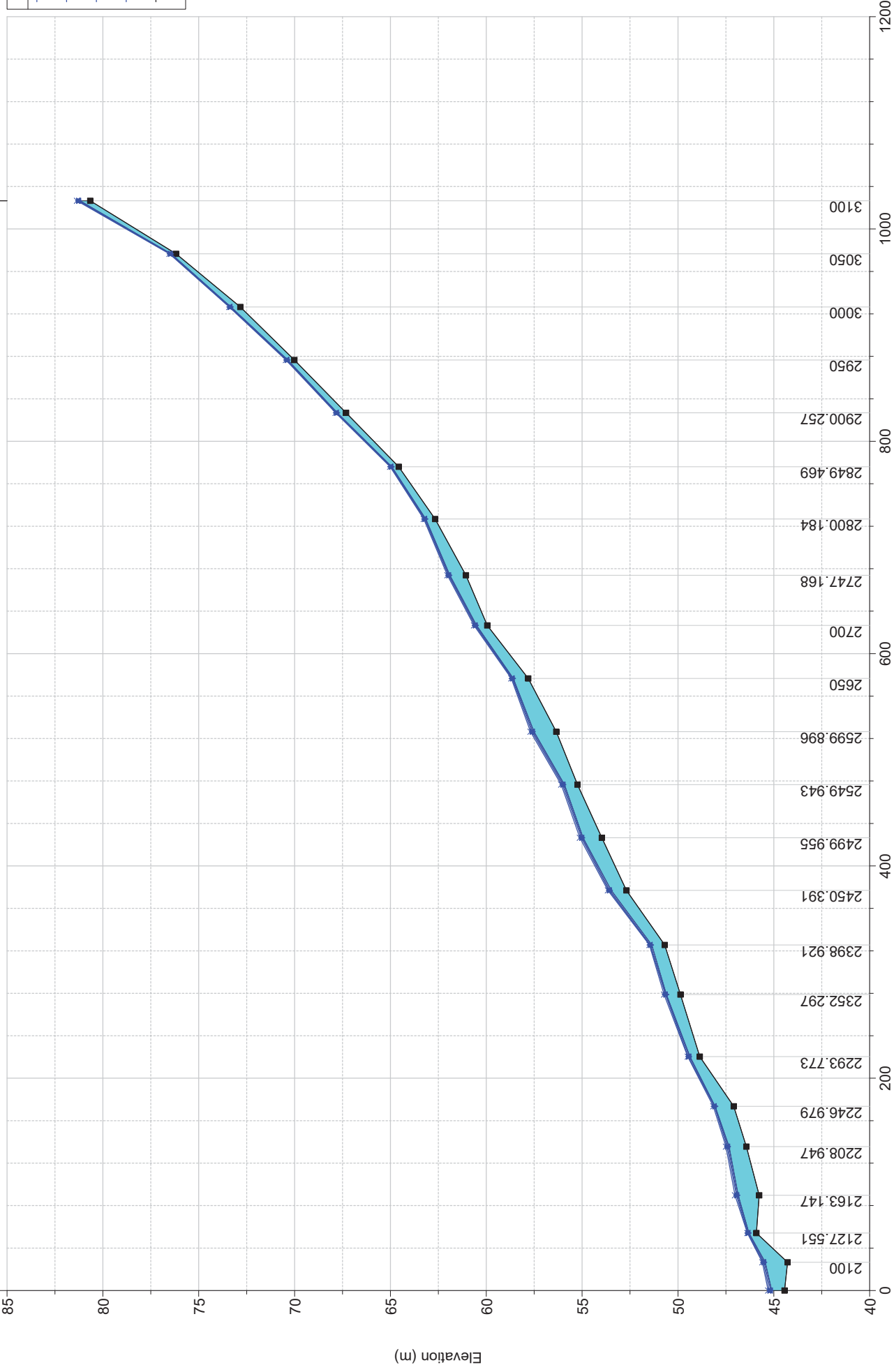


scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Crabolù Asta 1

Legend	
WS PF 4	✕
WS PF 3	▶
WS PF 2	◀
WS PF 1	■
Ground	■

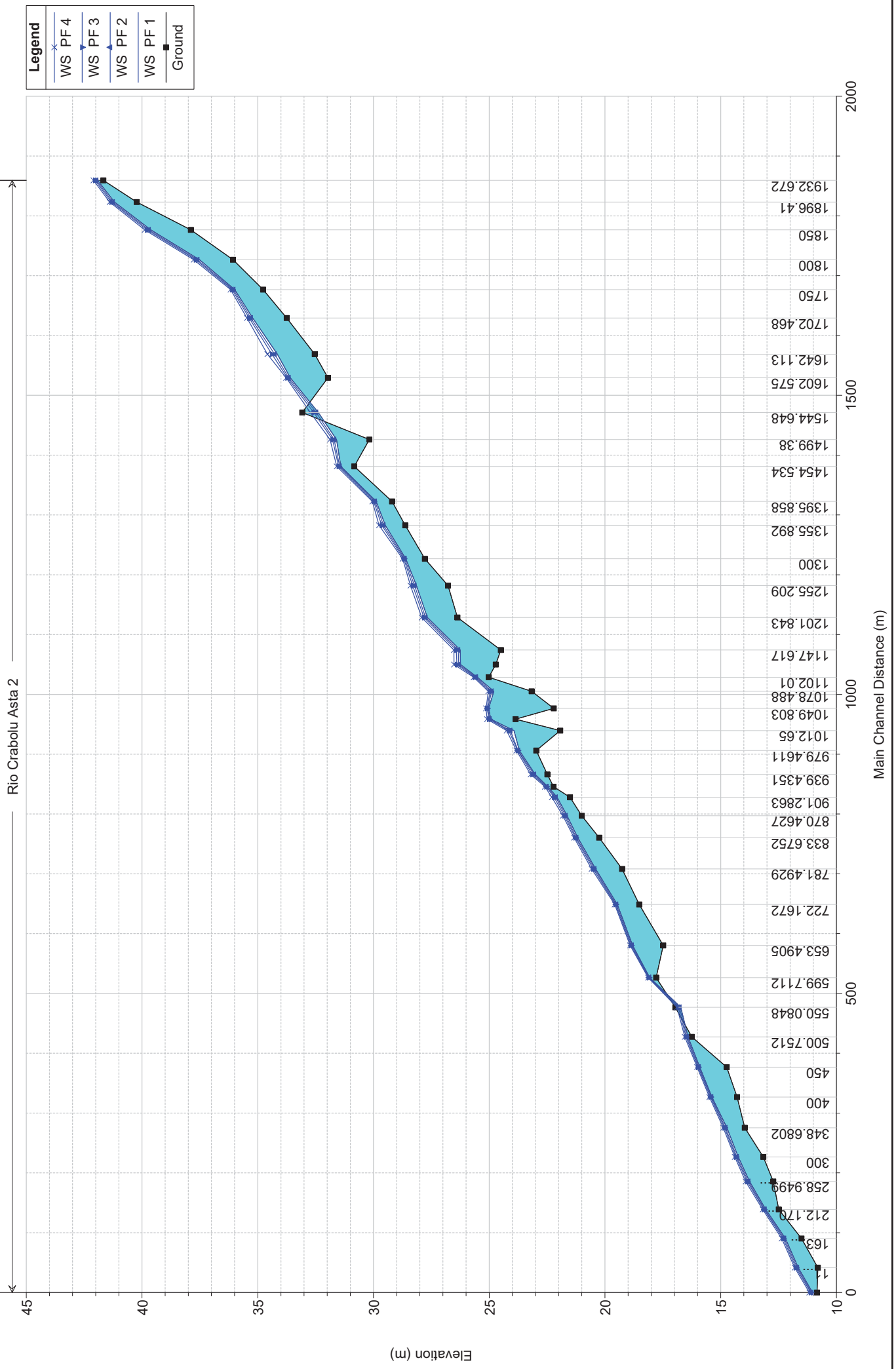


Main Channel Distance (m)

Elevation (m)

scamunigada01082017 Plan: Plan 02 8/1/2017

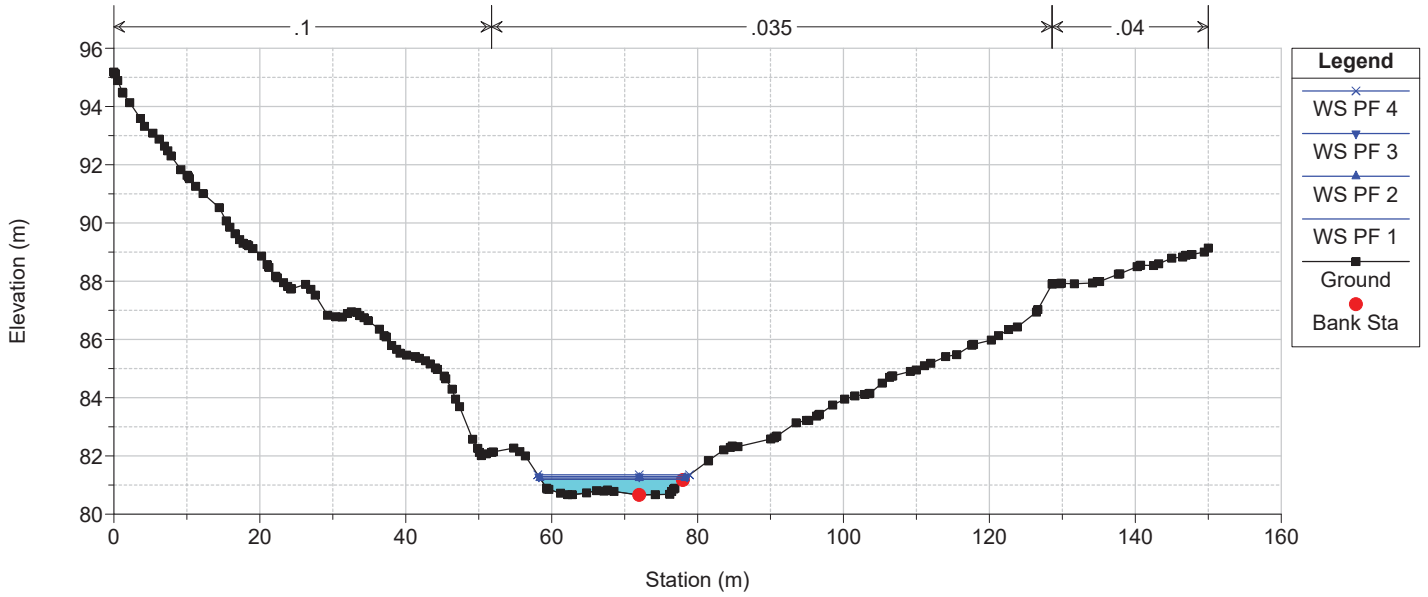
Geom: scamunigada01082017_nb Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

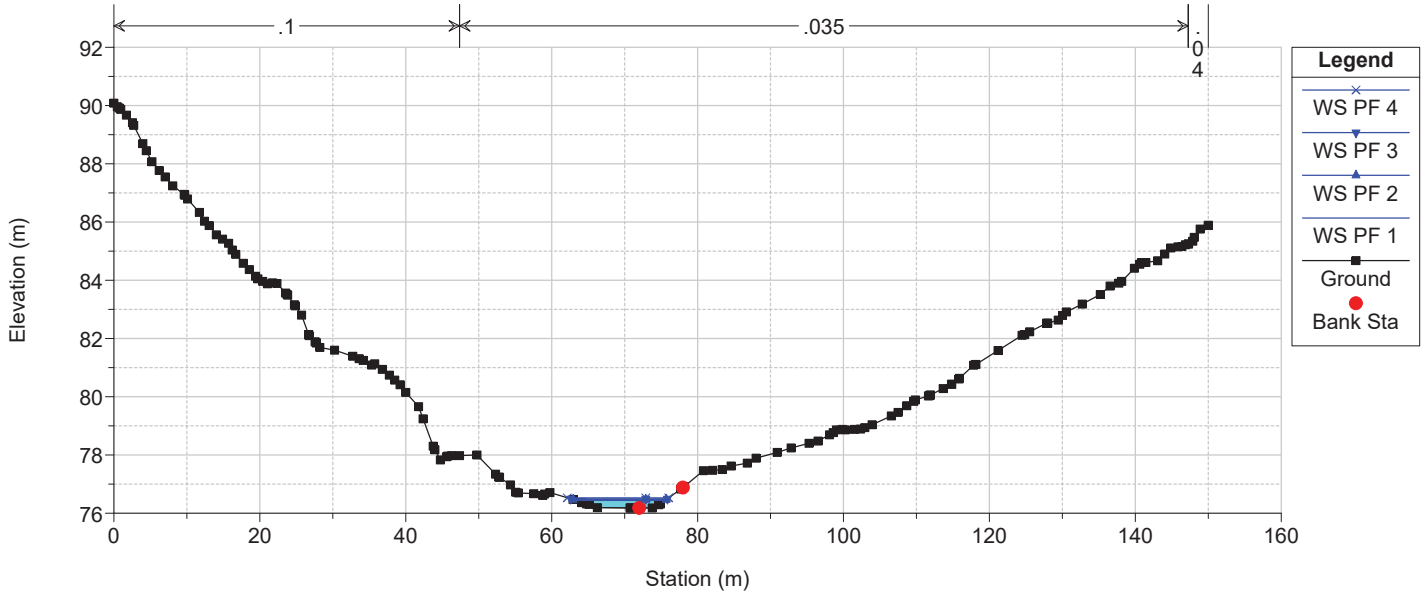
River = Rio Crabolu Reach = Asta 1 RS = 3100 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

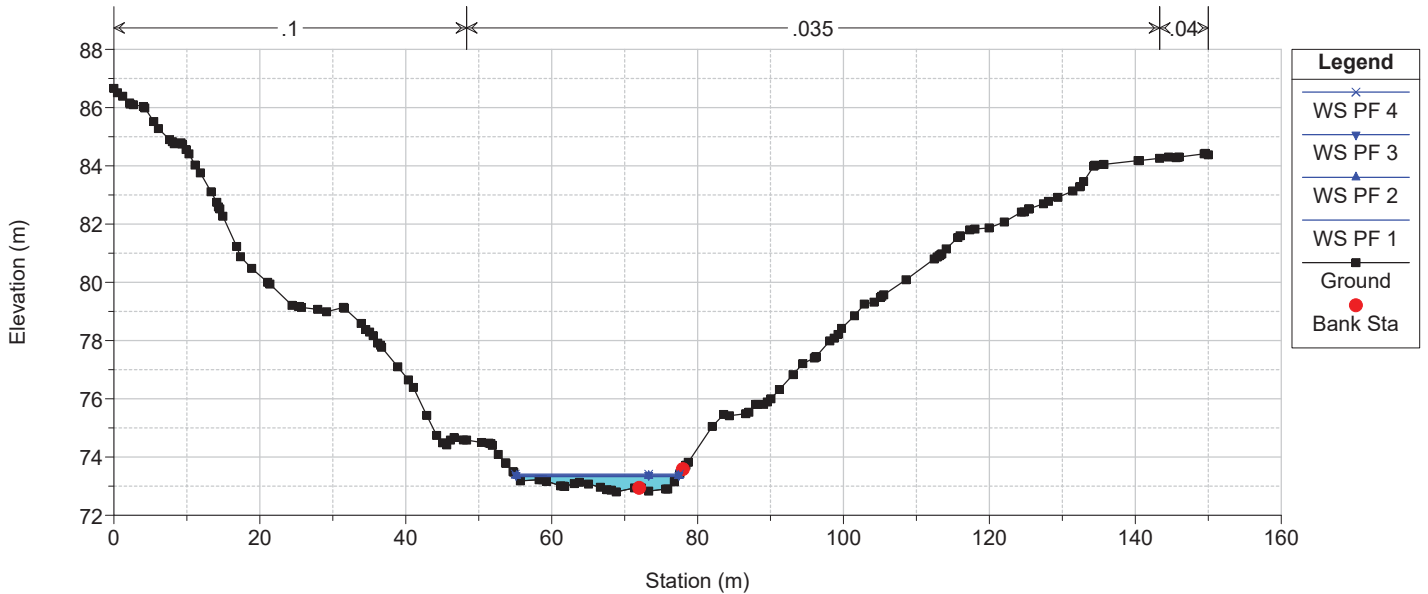
River = Rio Crabolu Reach = Asta 1 RS = 3050 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

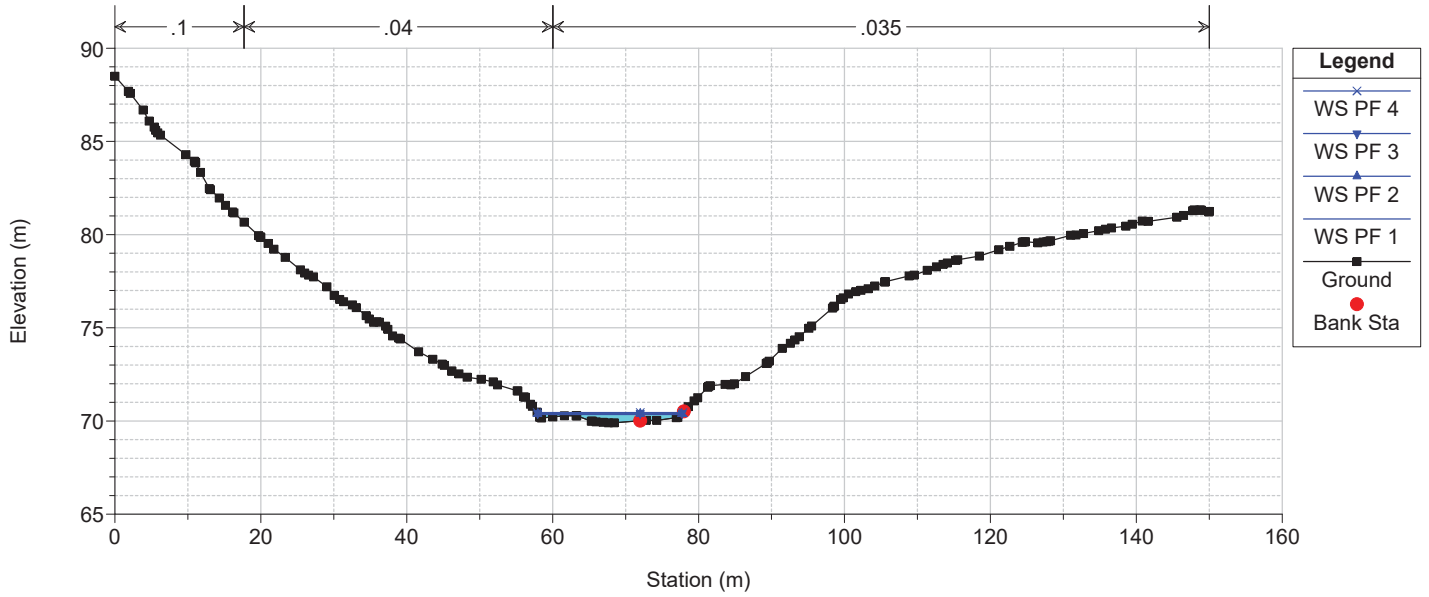
River = Rio Crabolu Reach = Asta 1 RS = 3000 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

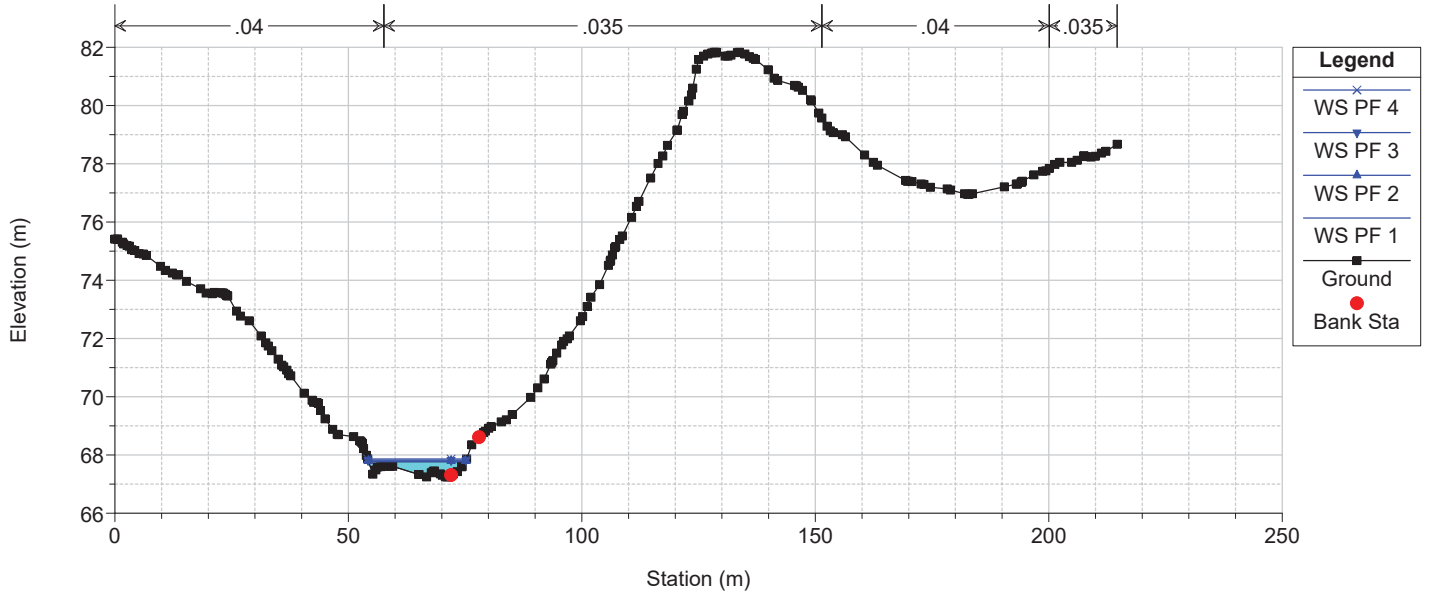
River = Rio Crabolu Reach = Asta 1 RS = 2950 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

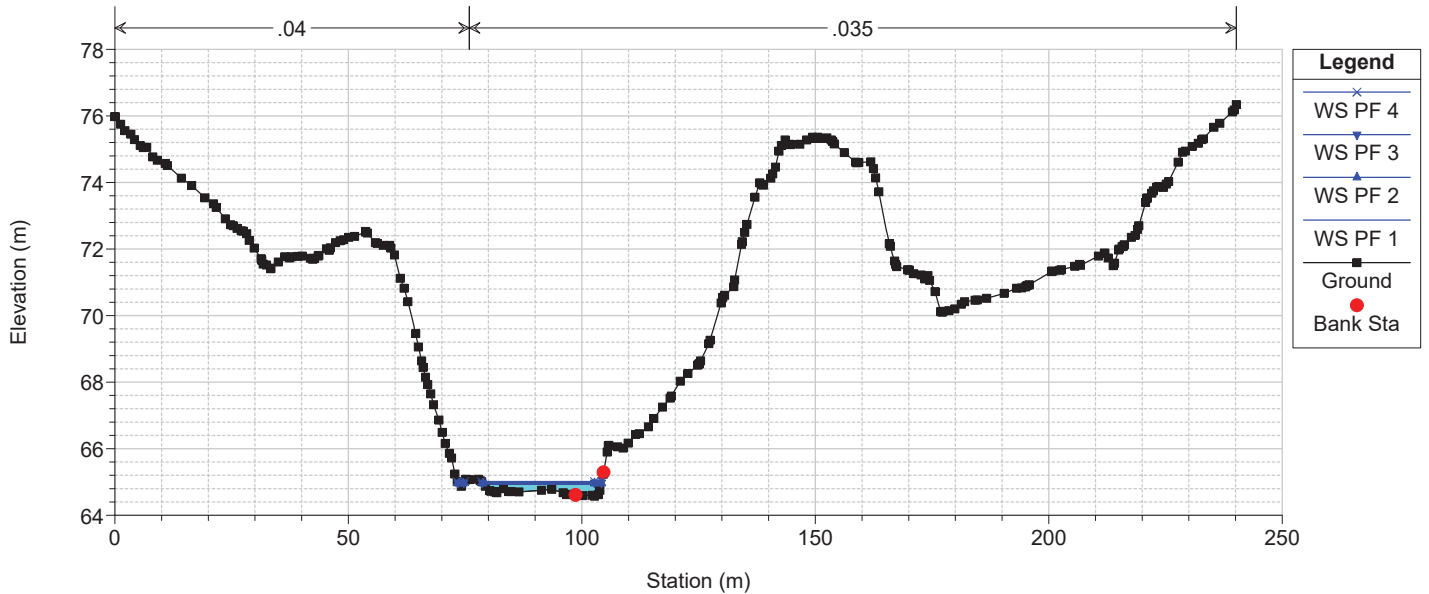
River = Rio Crabolu Reach = Asta 1 RS = 2900.257 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

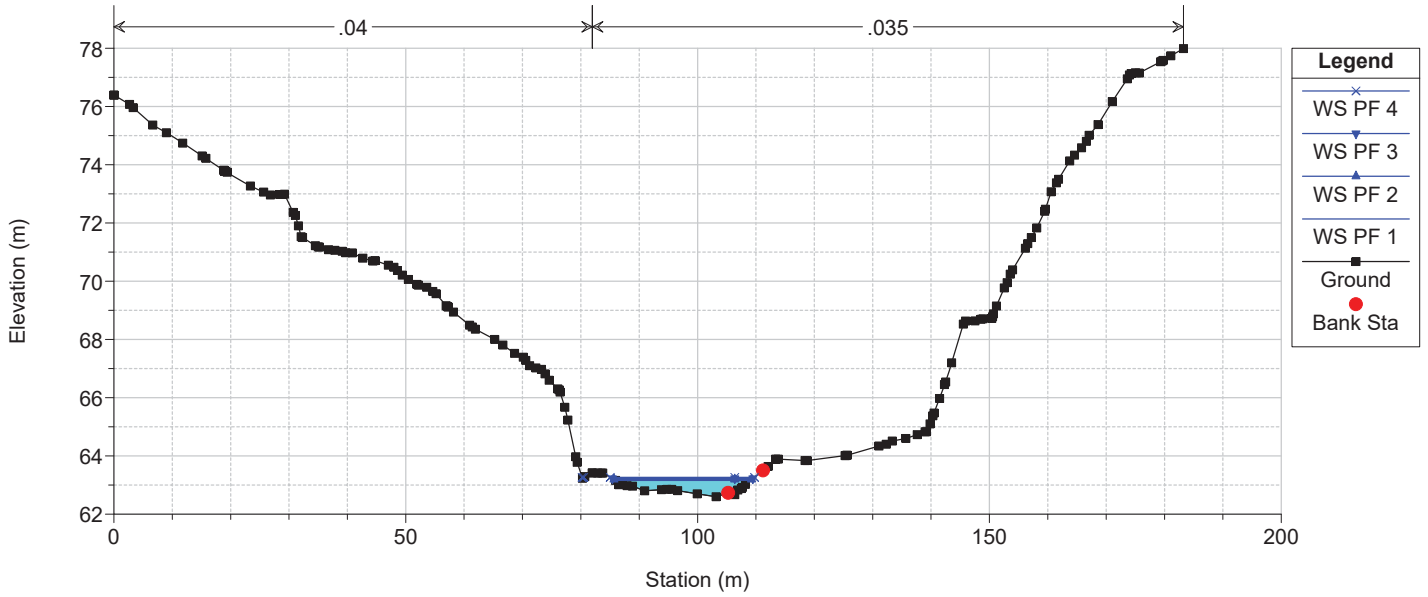
River = Rio Crabolu Reach = Asta 1 RS = 2849.469 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

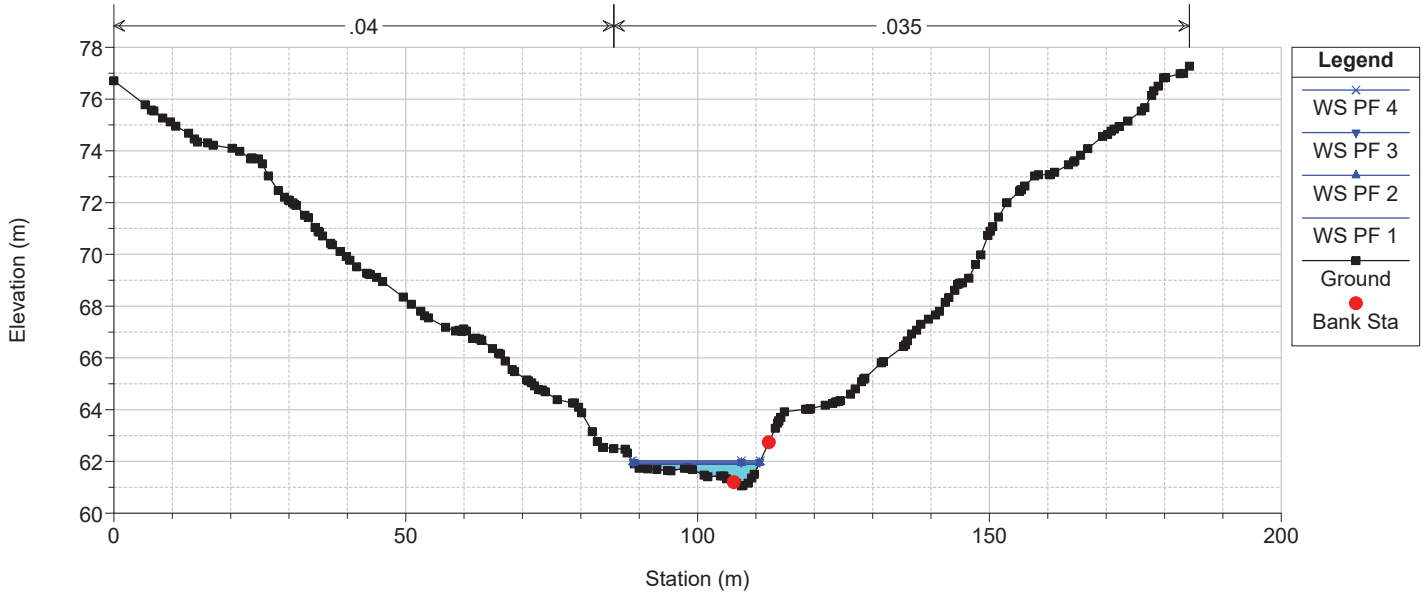
River = Rio Crabolu Reach = Asta 1 RS = 2800.184 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

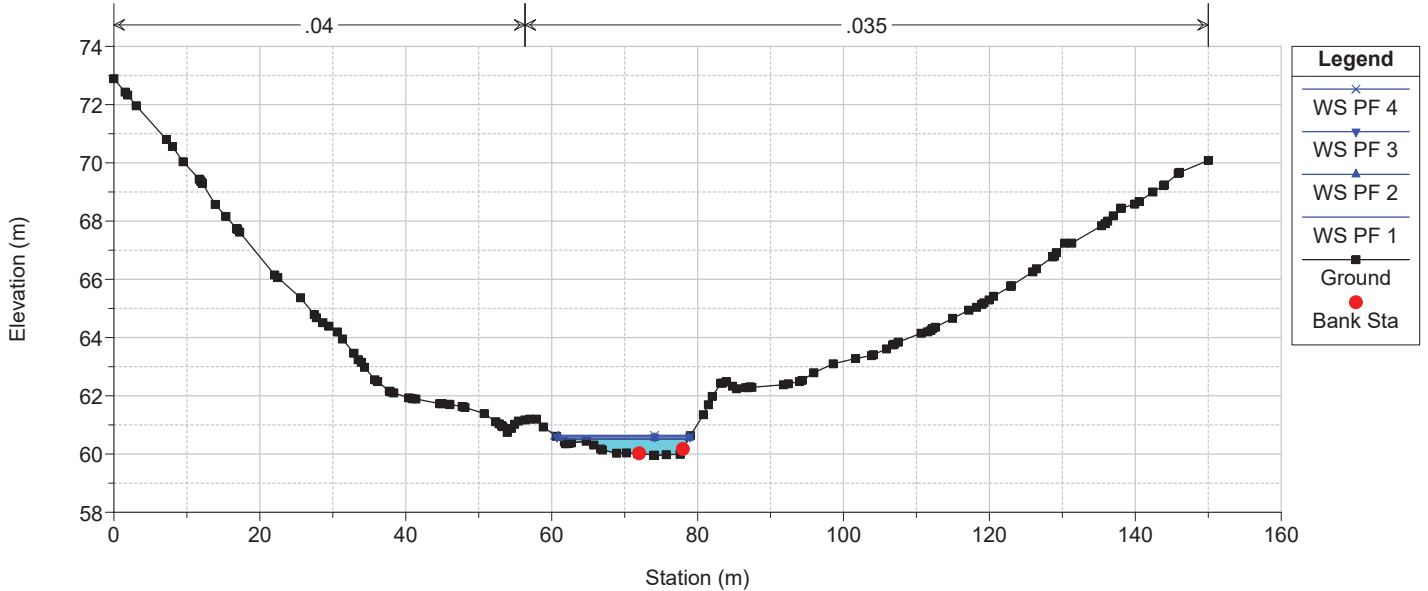
River = Rio Crabolu Reach = Asta 1 RS = 2747.168 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

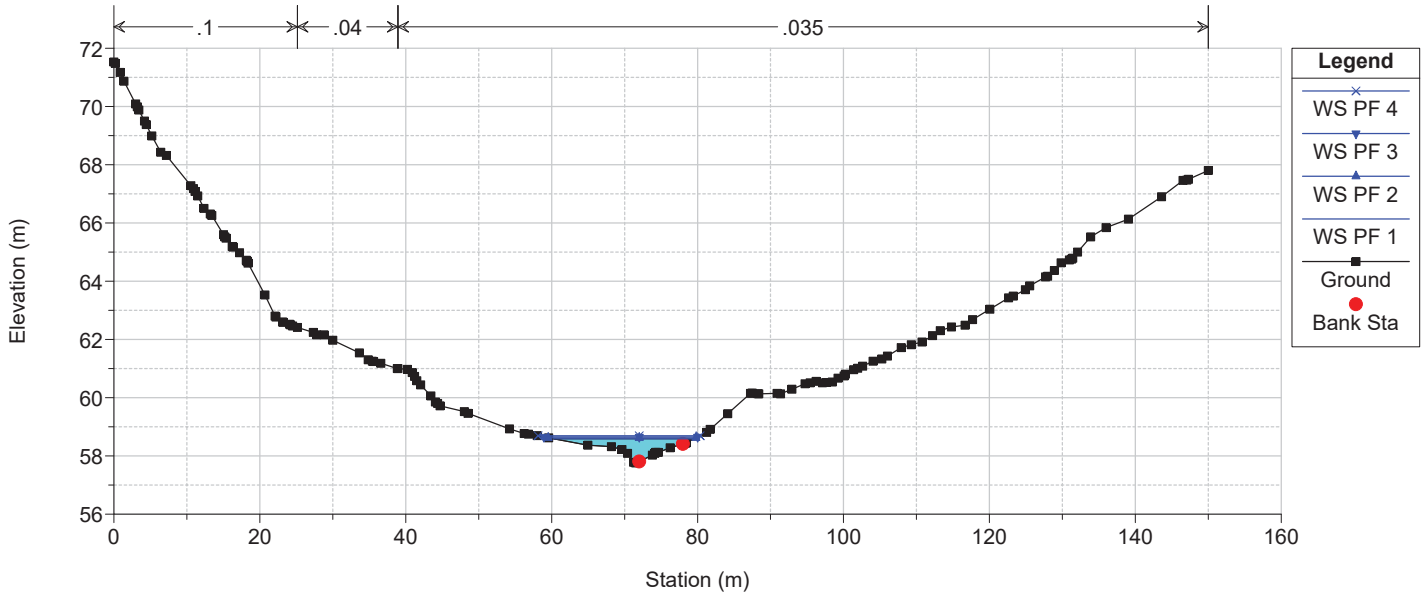
River = Rio Crabolu Reach = Asta 1 RS = 2700 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

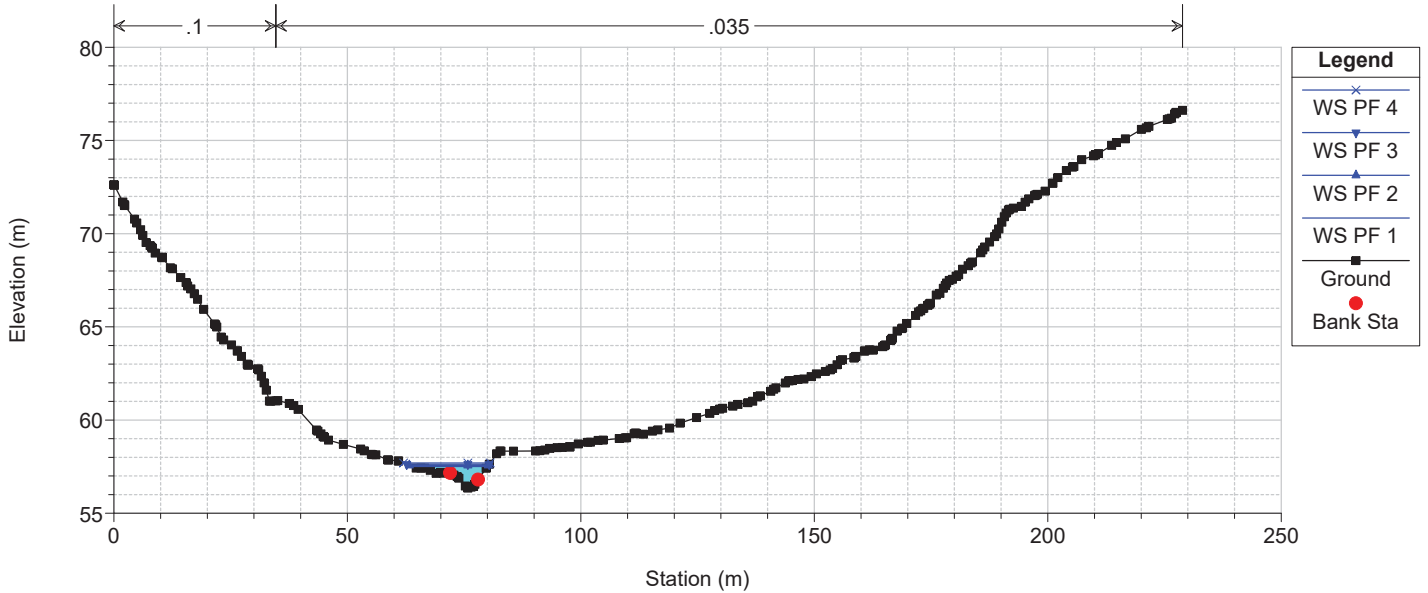
River = Rio Crabolu Reach = Asta 1 RS = 2650 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

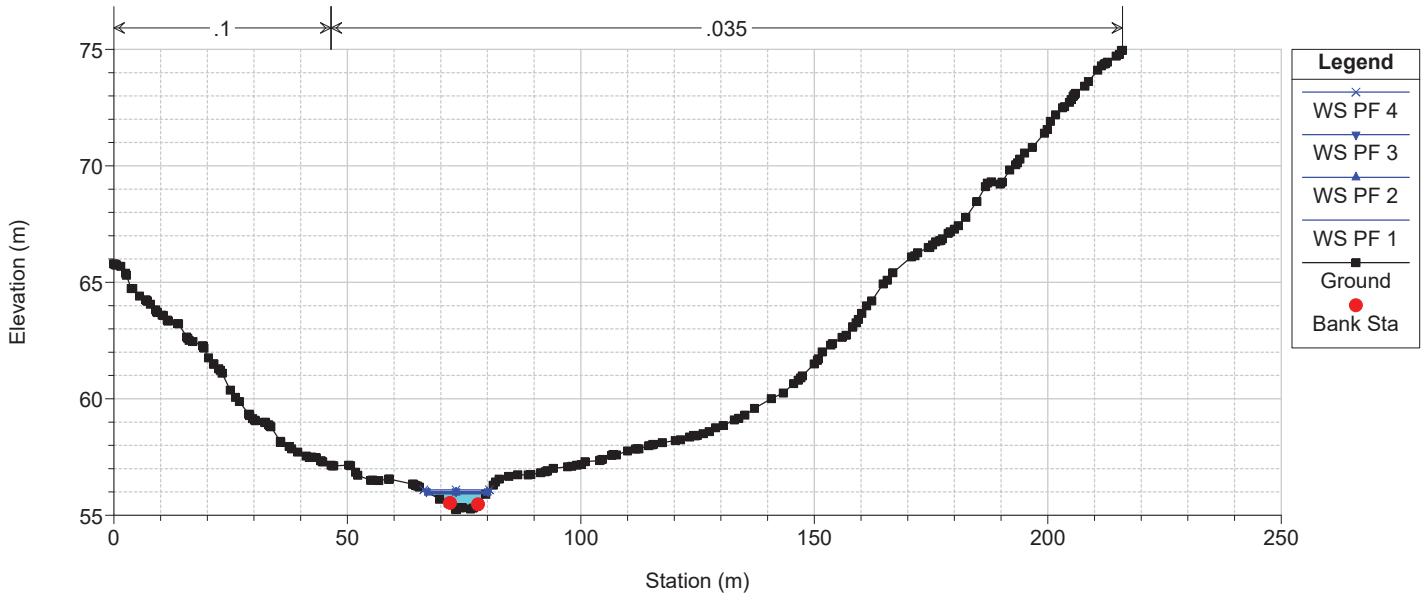
River = Rio Crabolu Reach = Asta 1 RS = 2599.896 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

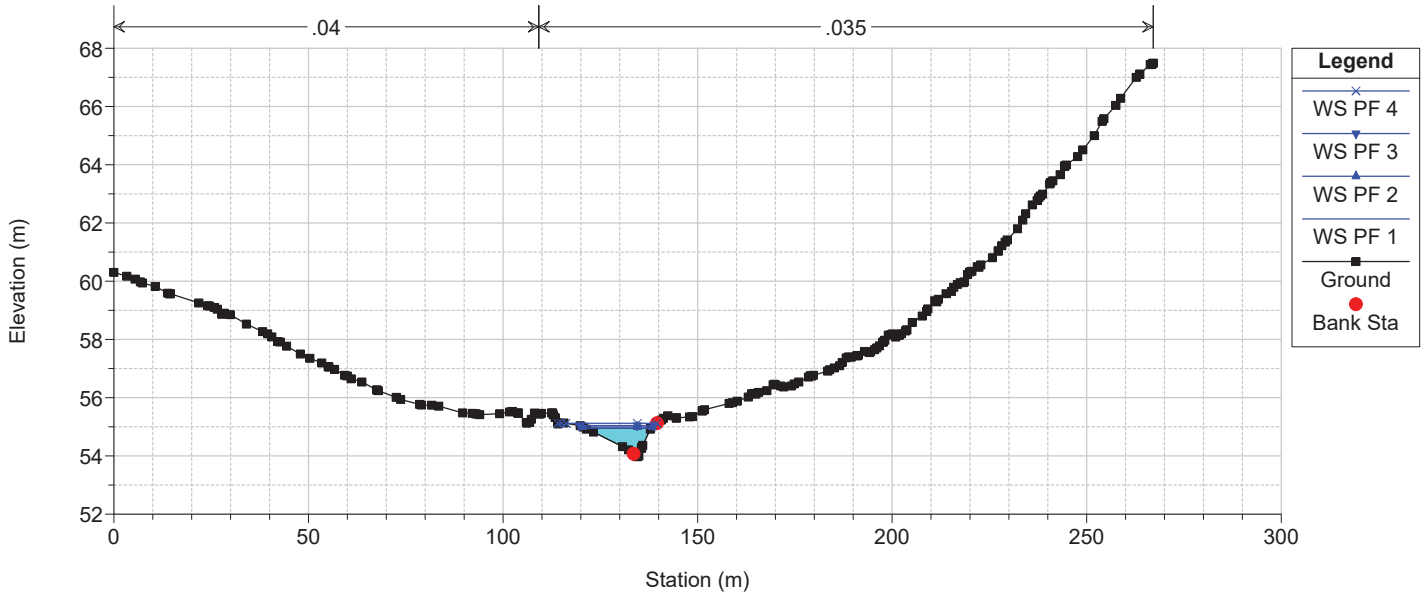
River = Rio Crabolu Reach = Asta 1 RS = 2549.943 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

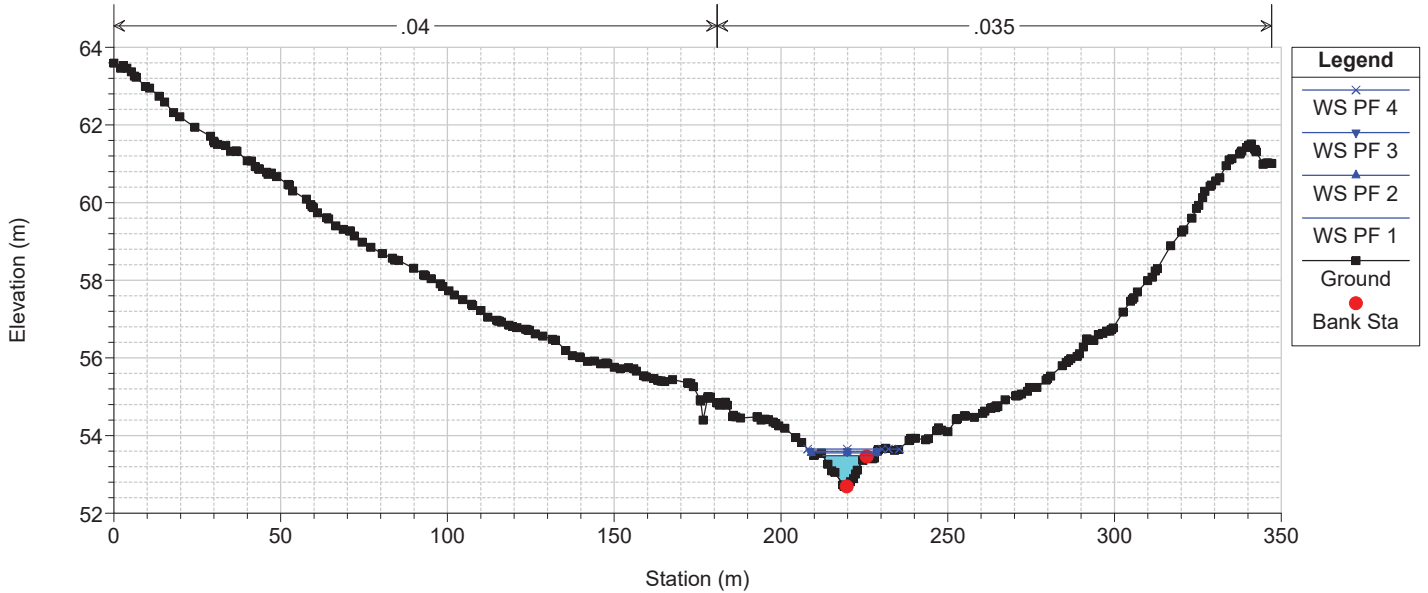
River = Rio Crabolu Reach = Asta 1 RS = 2499.955 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

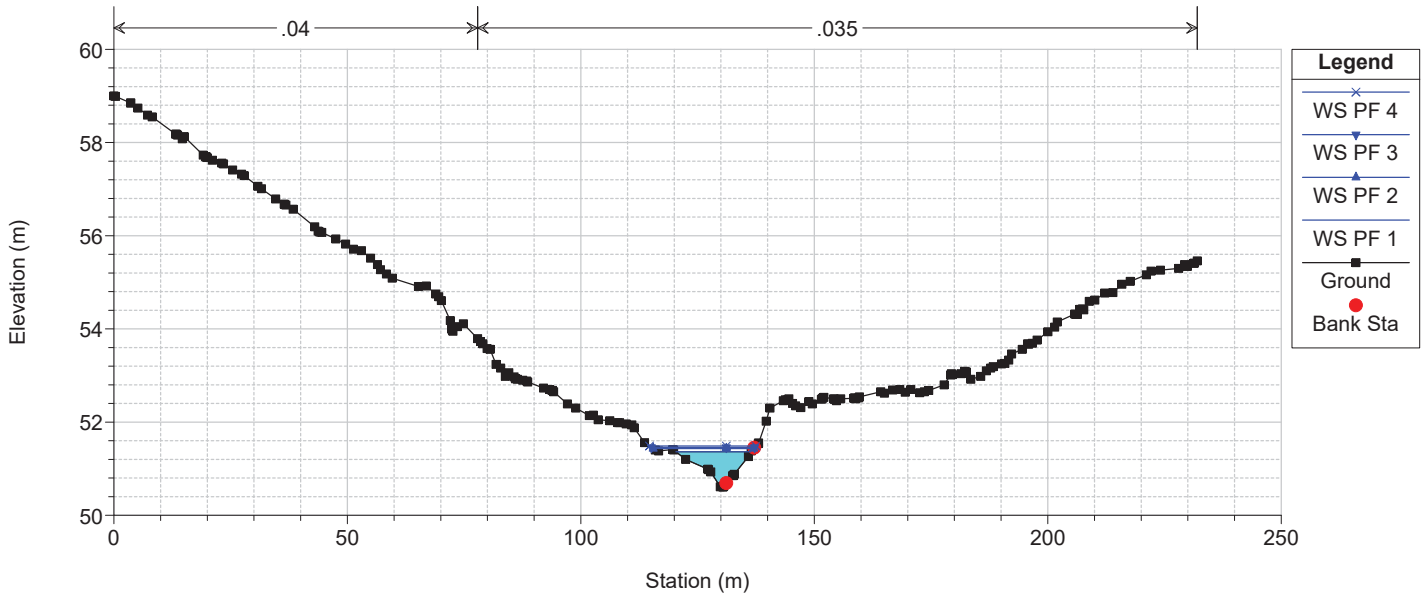
River = Rio Crabolu Reach = Asta 1 RS = 2450.391 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

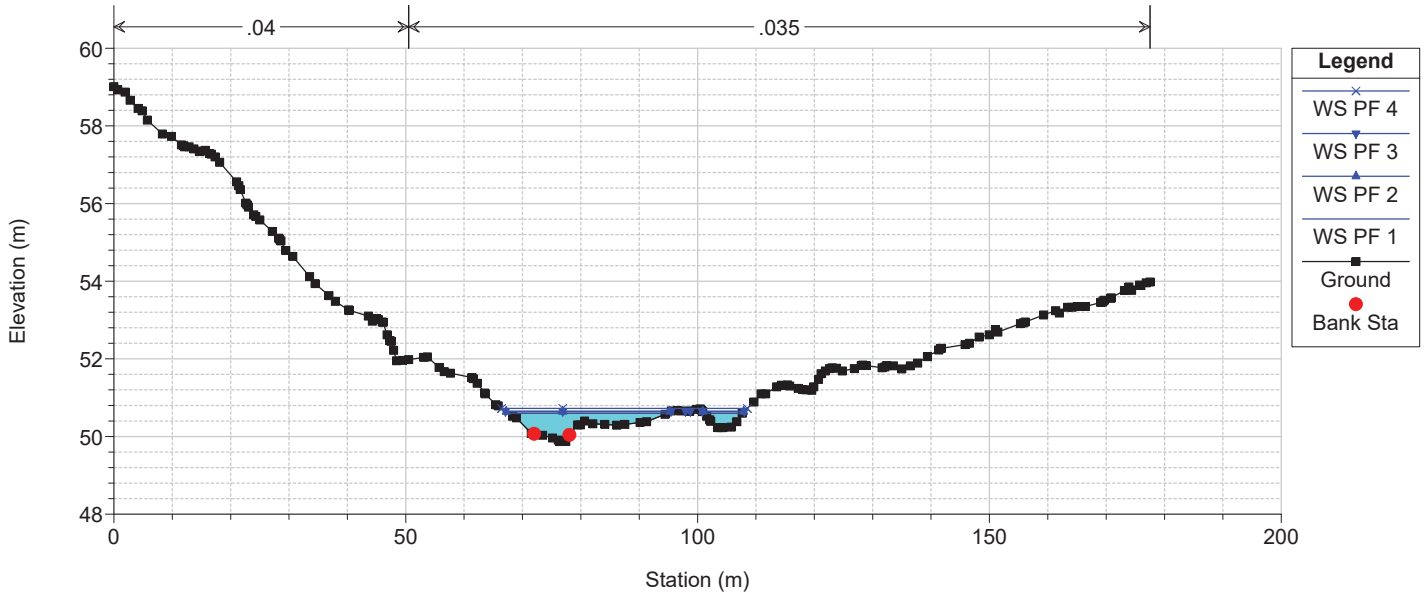
River = Rio Crabolu Reach = Asta 1 RS = 2398.921 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

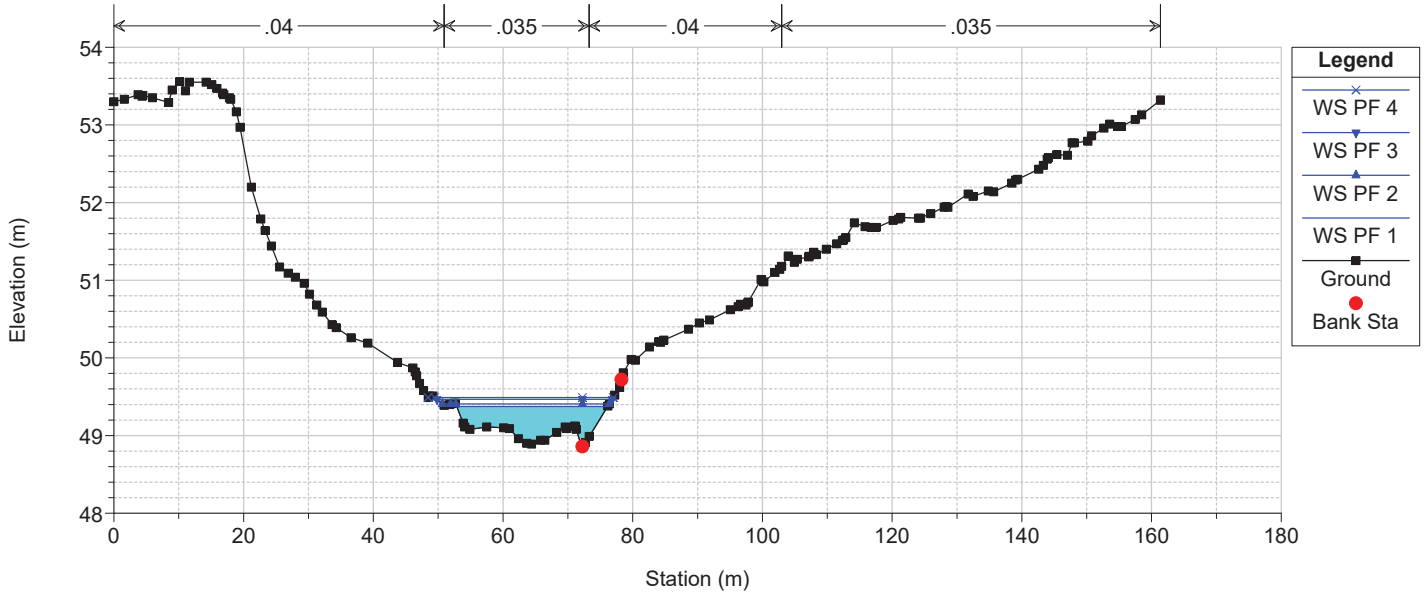
River = Rio Crabolu Reach = Asta 1 RS = 2352.297 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

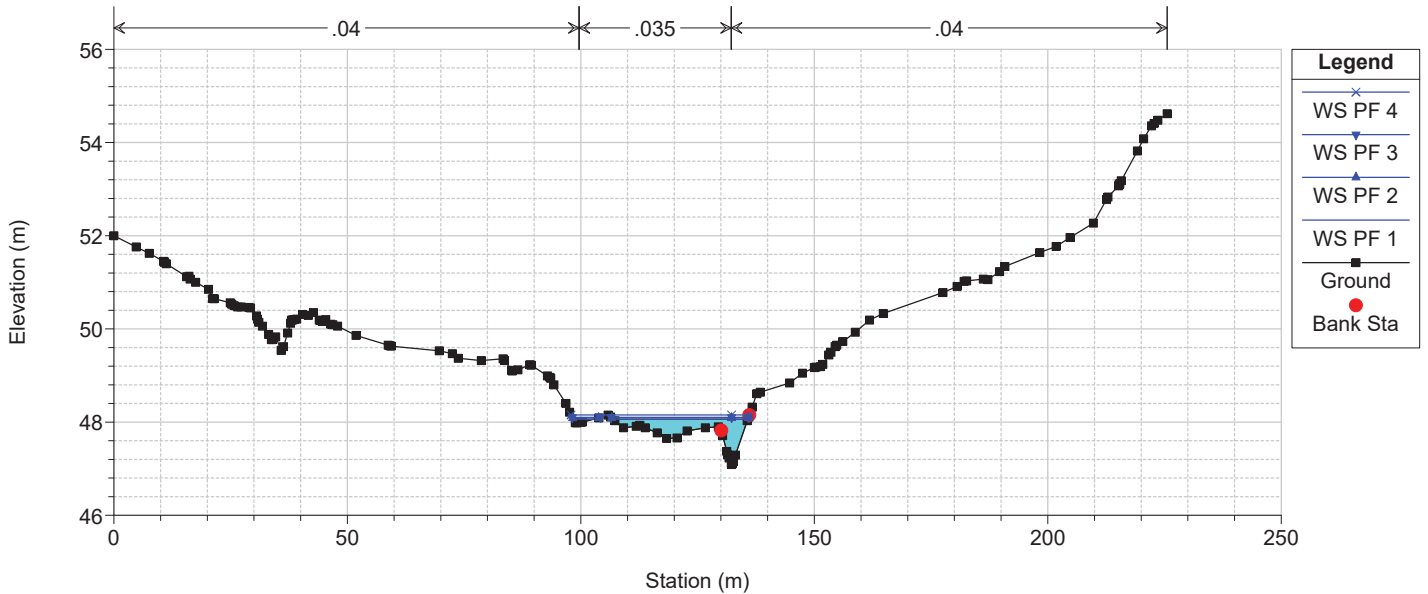
River = Rio Crabolu Reach = Asta 1 RS = 2293.773 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

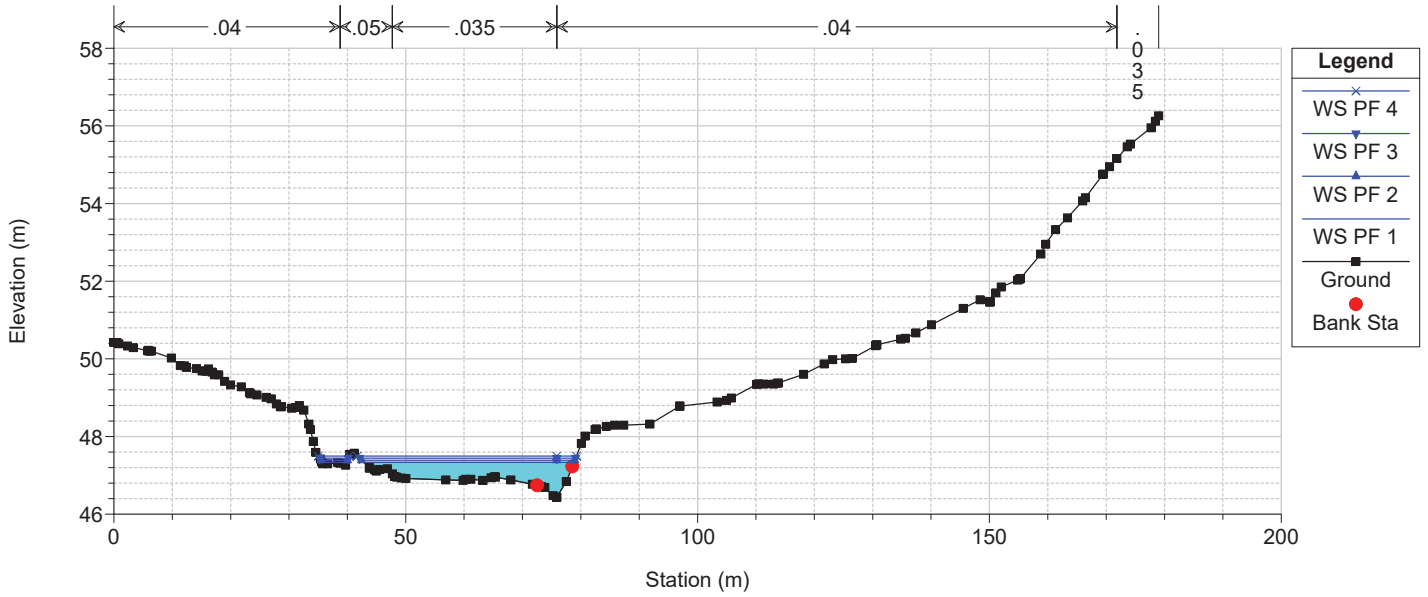
River = Rio Crabolu Reach = Asta 1 RS = 2246.979 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

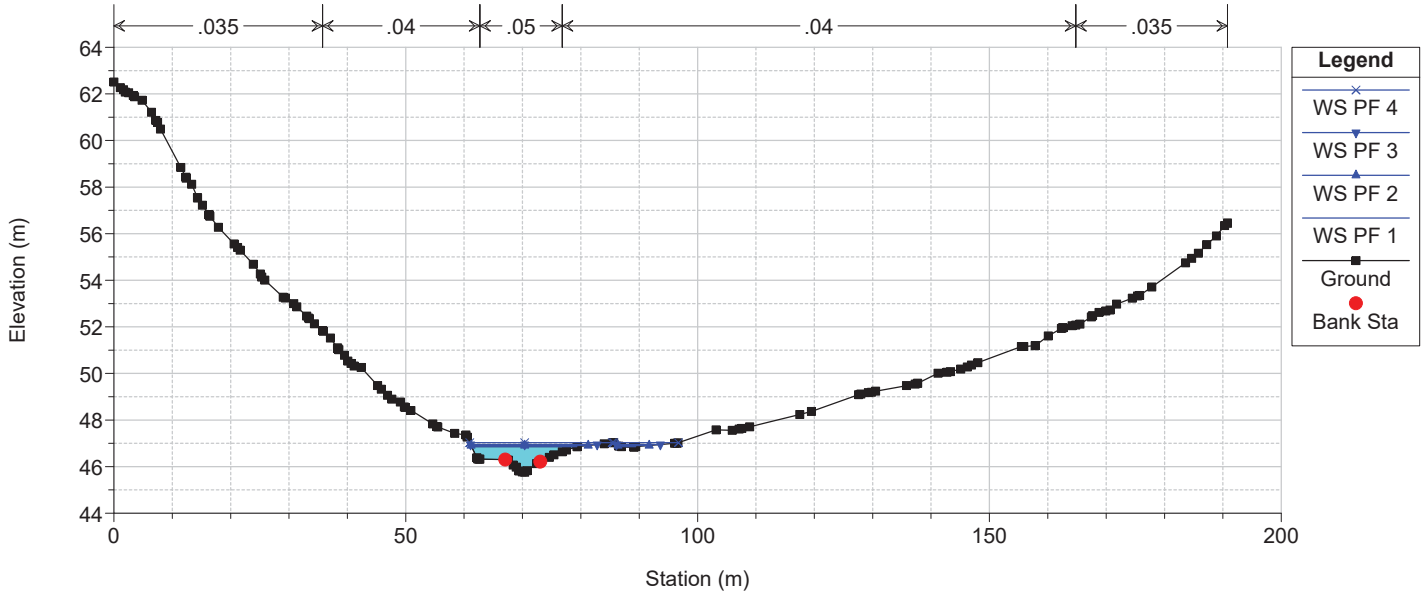
River = Rio Crabolu Reach = Asta 1 RS = 2208.947 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

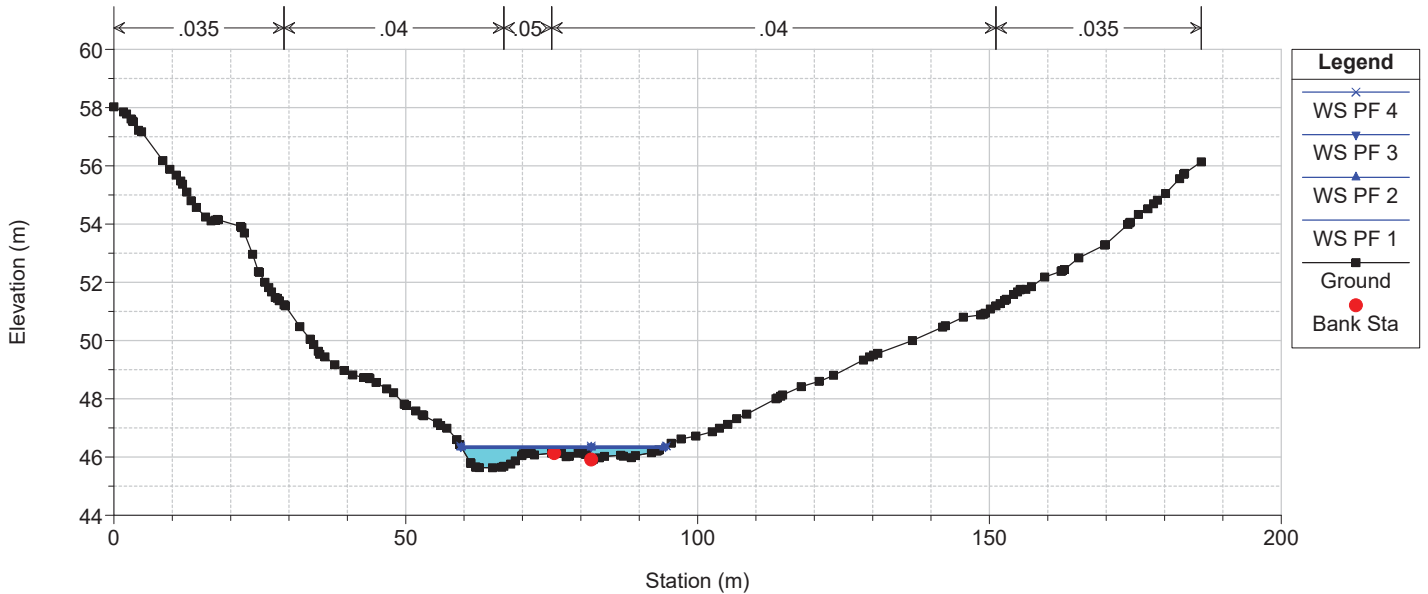
River = Rio Crabolu Reach = Asta 1 RS = 2163.147 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

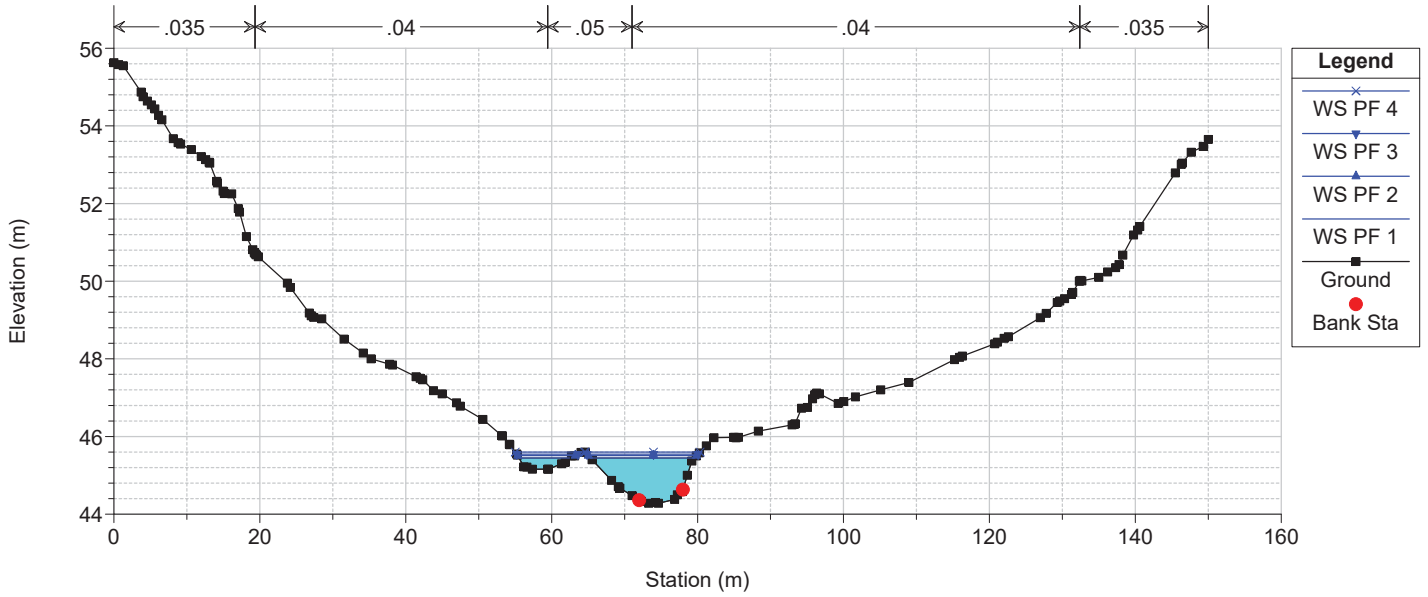
River = Rio Crabolu Reach = Asta 1 RS = 2127.551 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

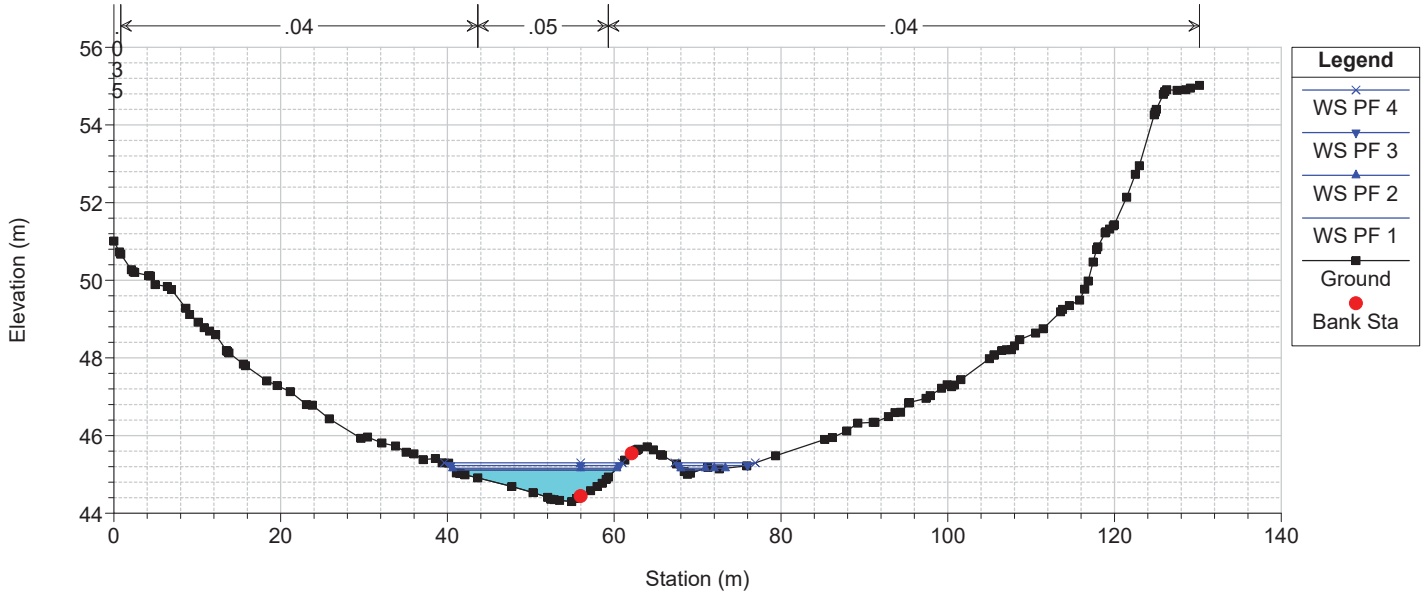
River = Rio Crabolu Reach = Asta 1 RS = 2100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

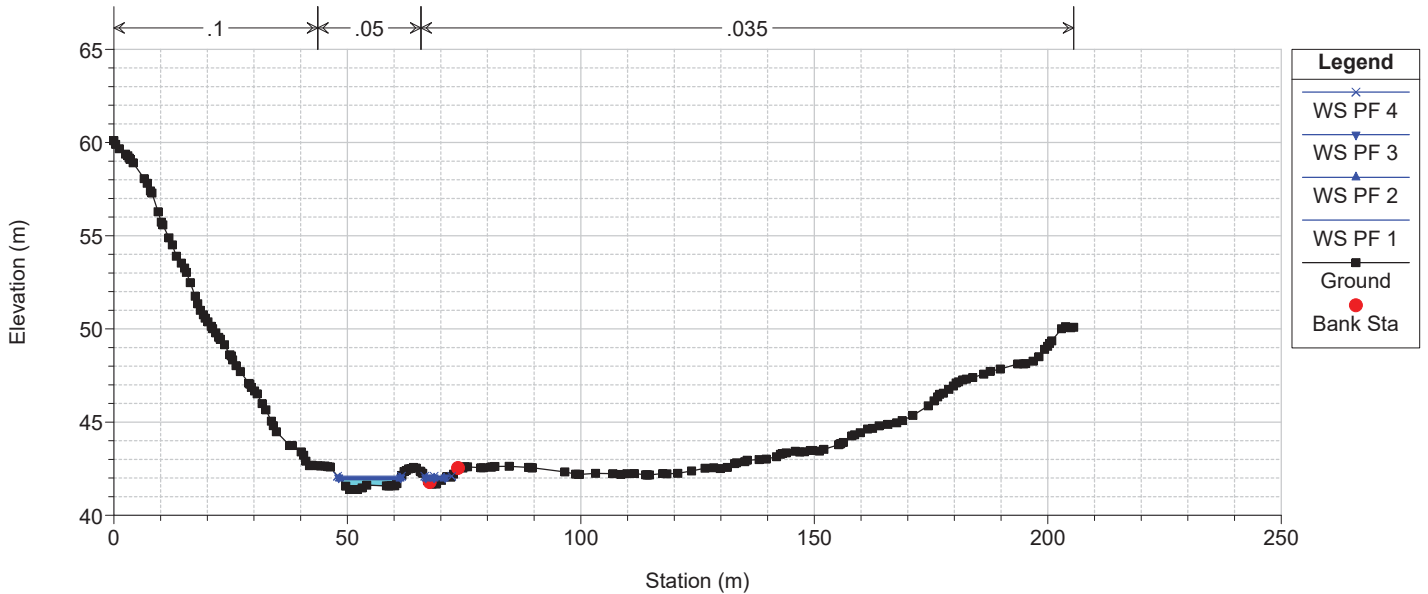
River = Rio Crabolu Reach = Asta 1 RS = 2073.411 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

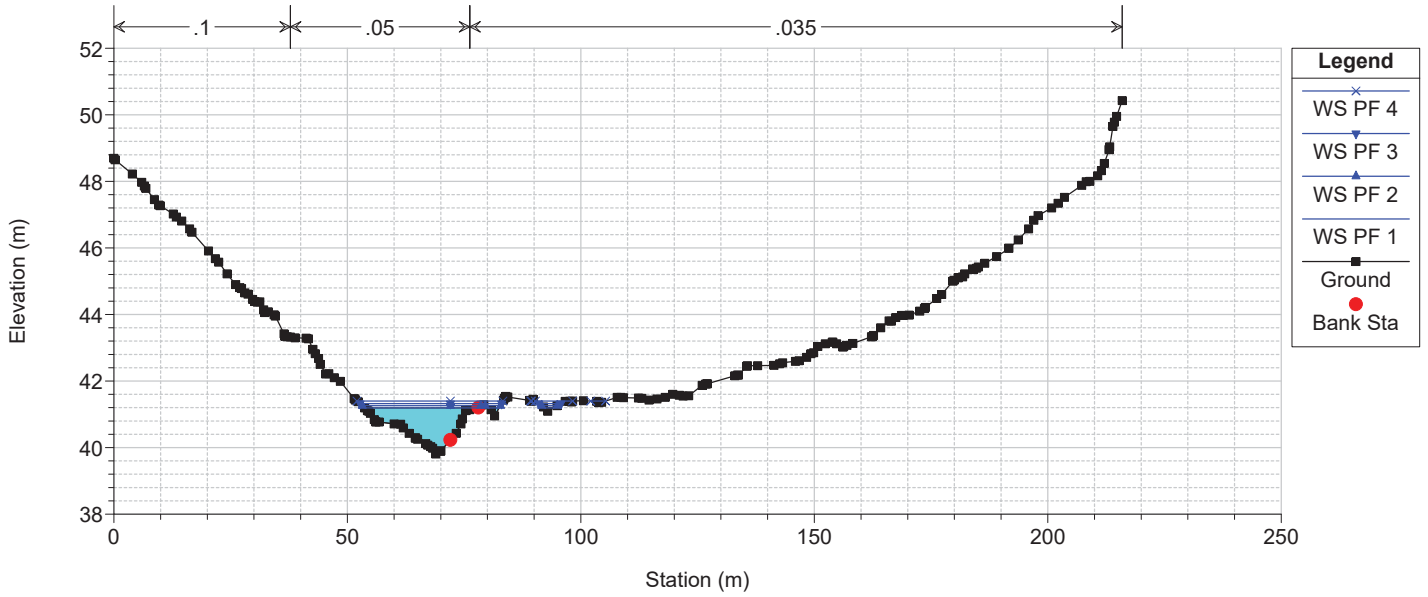
River = Rio Crabolu Reach = Asta 2 RS = 1932.672 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

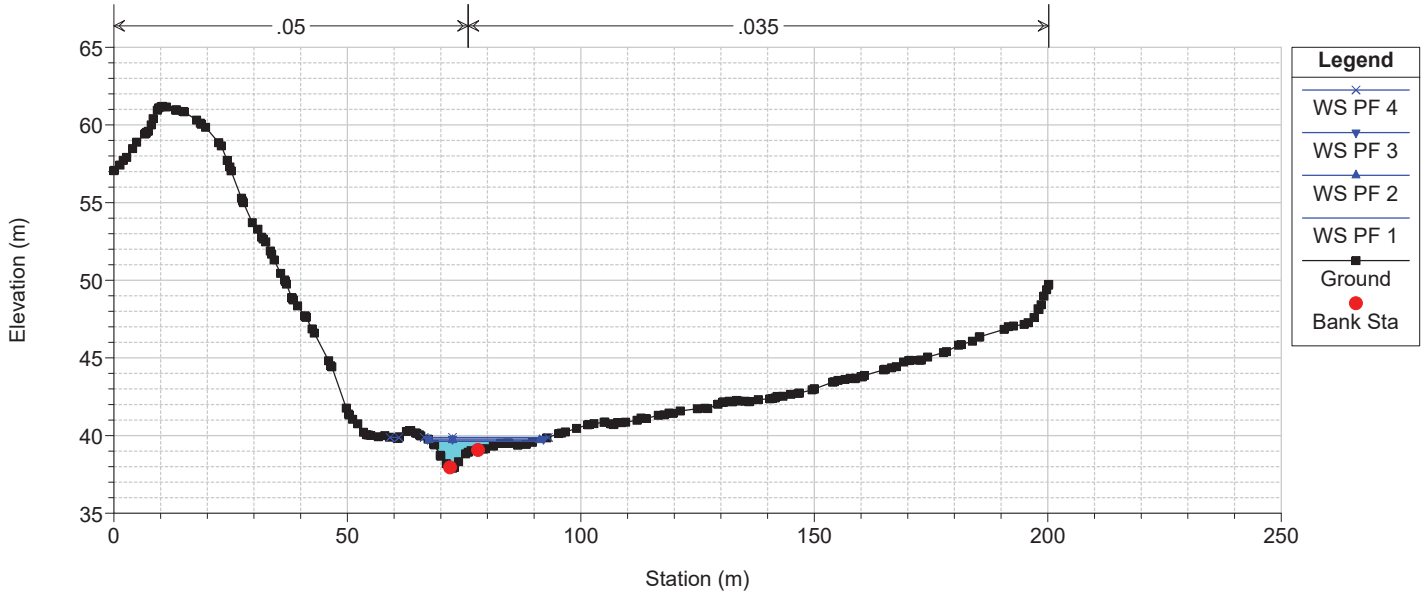
River = Rio Crabolu Reach = Asta 2 RS = 1896.41 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

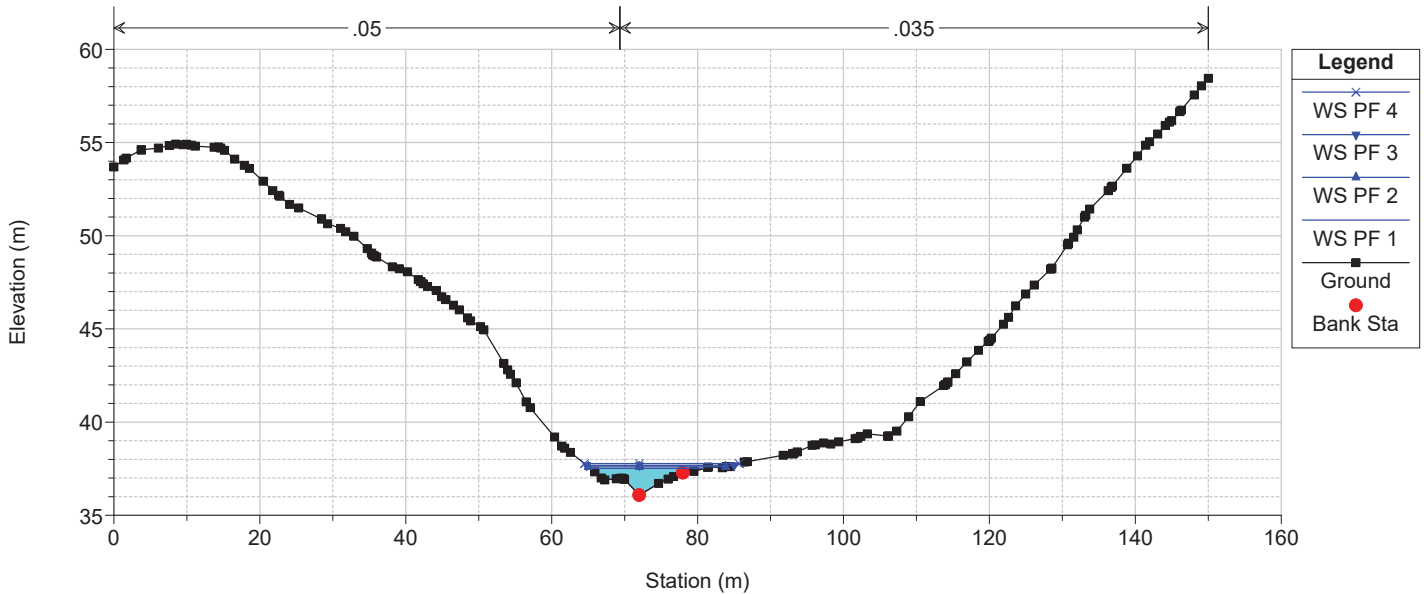
River = Rio Crabolu Reach = Asta 2 RS = 1850 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

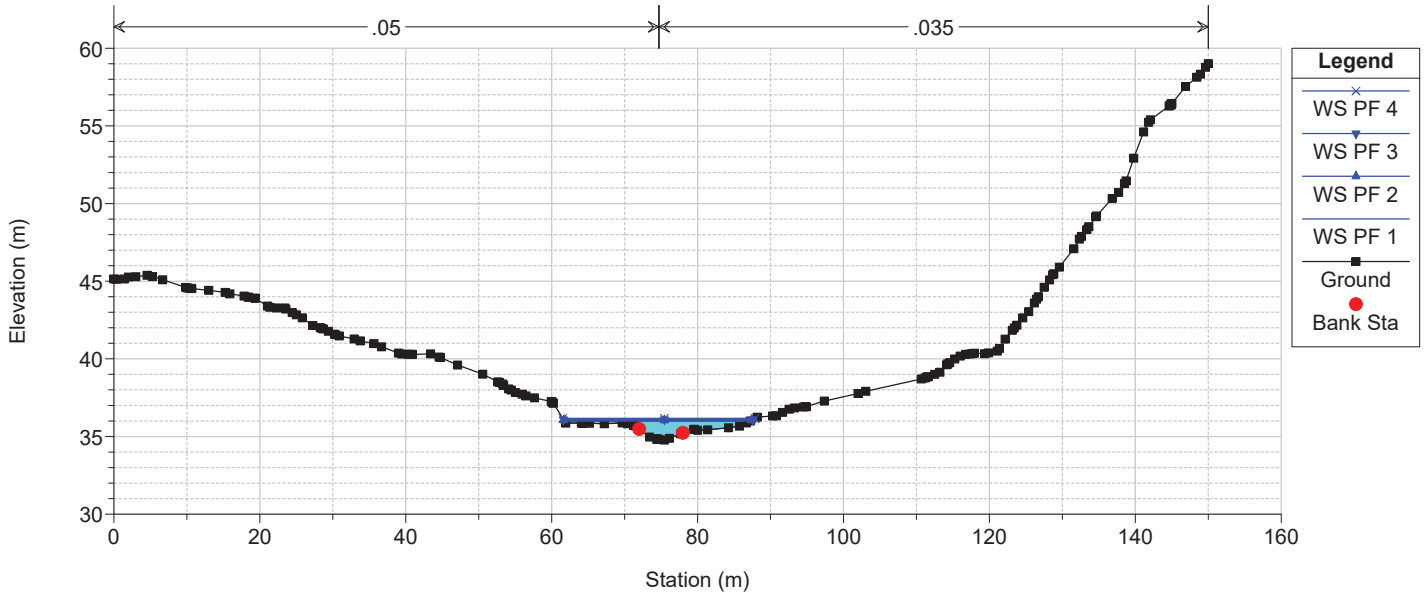
River = Rio Crabolu Reach = Asta 2 RS = 1800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

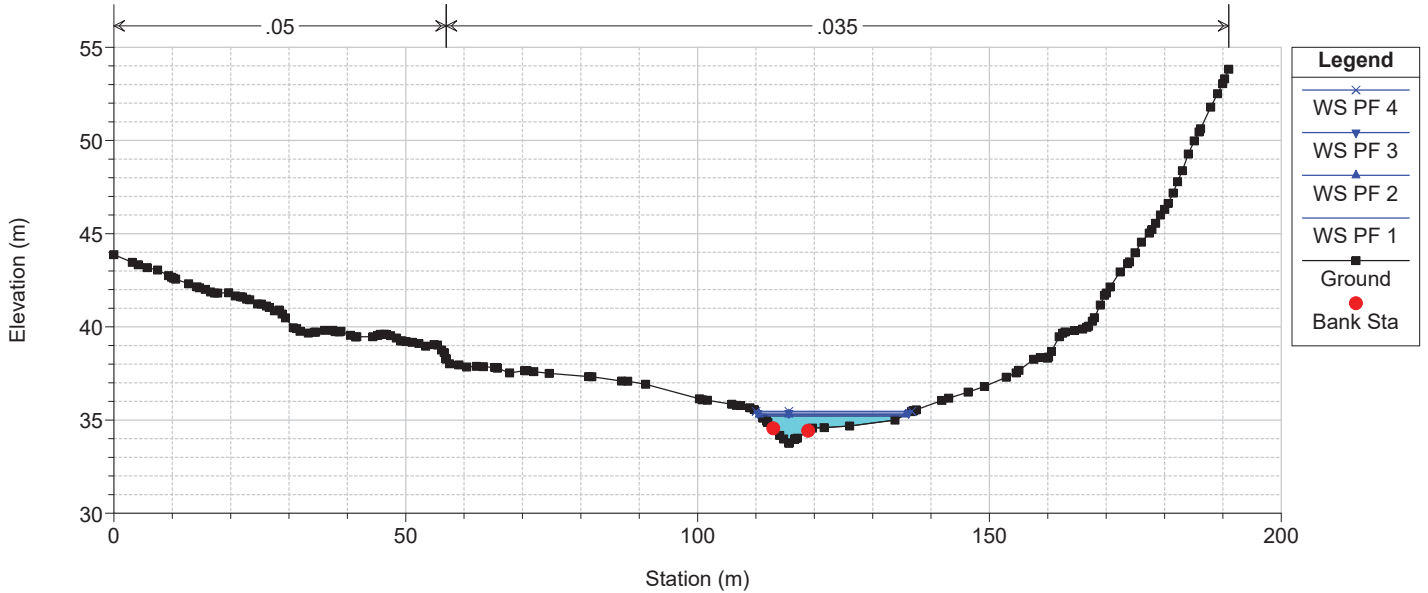
River = Rio Crabolu Reach = Asta 2 RS = 1750 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

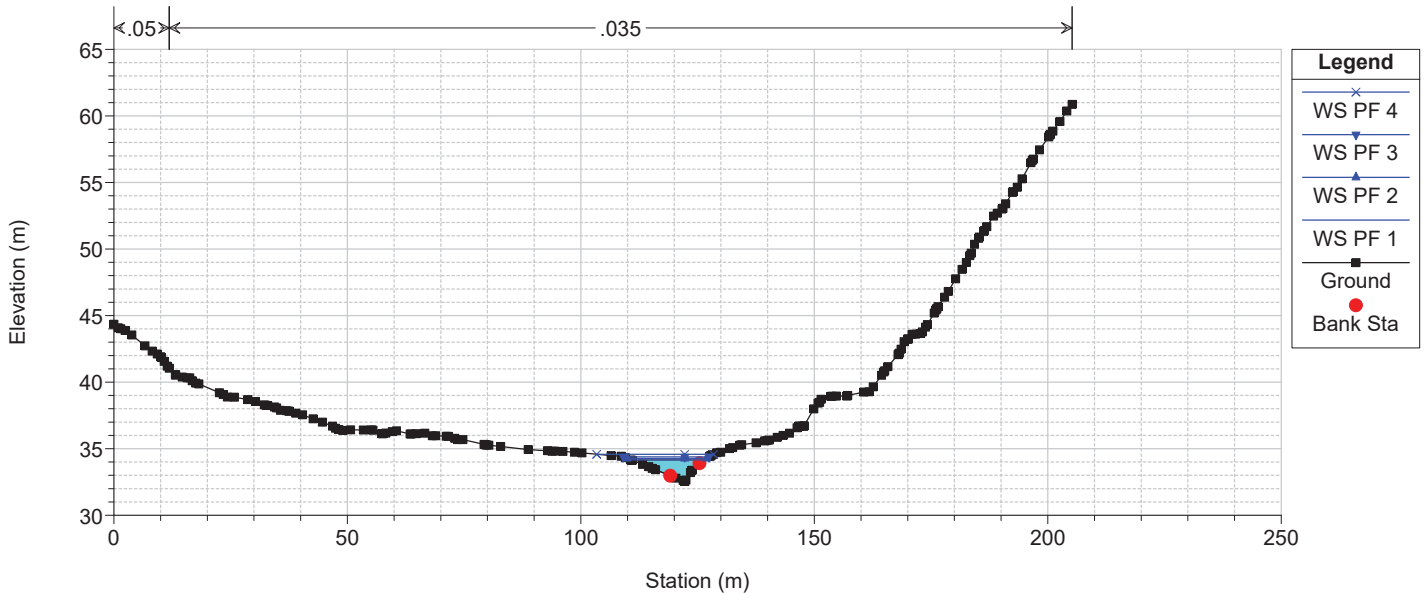
River = Rio Crabolu Reach = Asta 2 RS = 1702.468 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

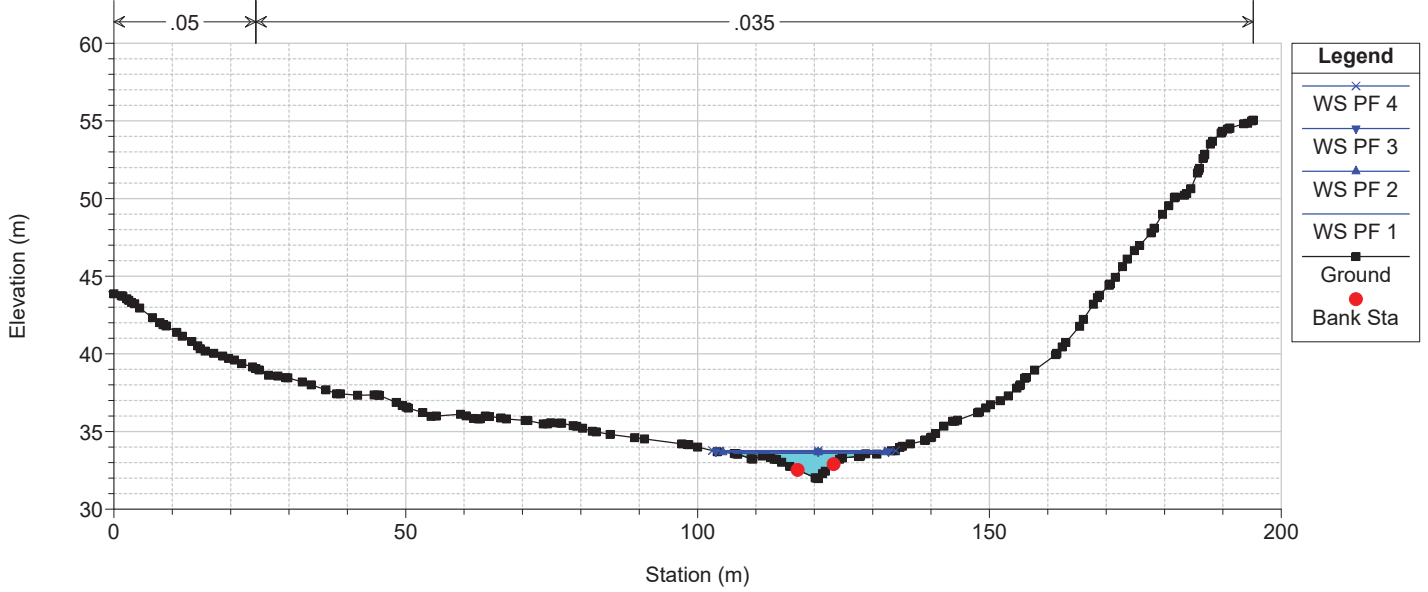
River = Rio Crabolu Reach = Asta 2 RS = 1642.113 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

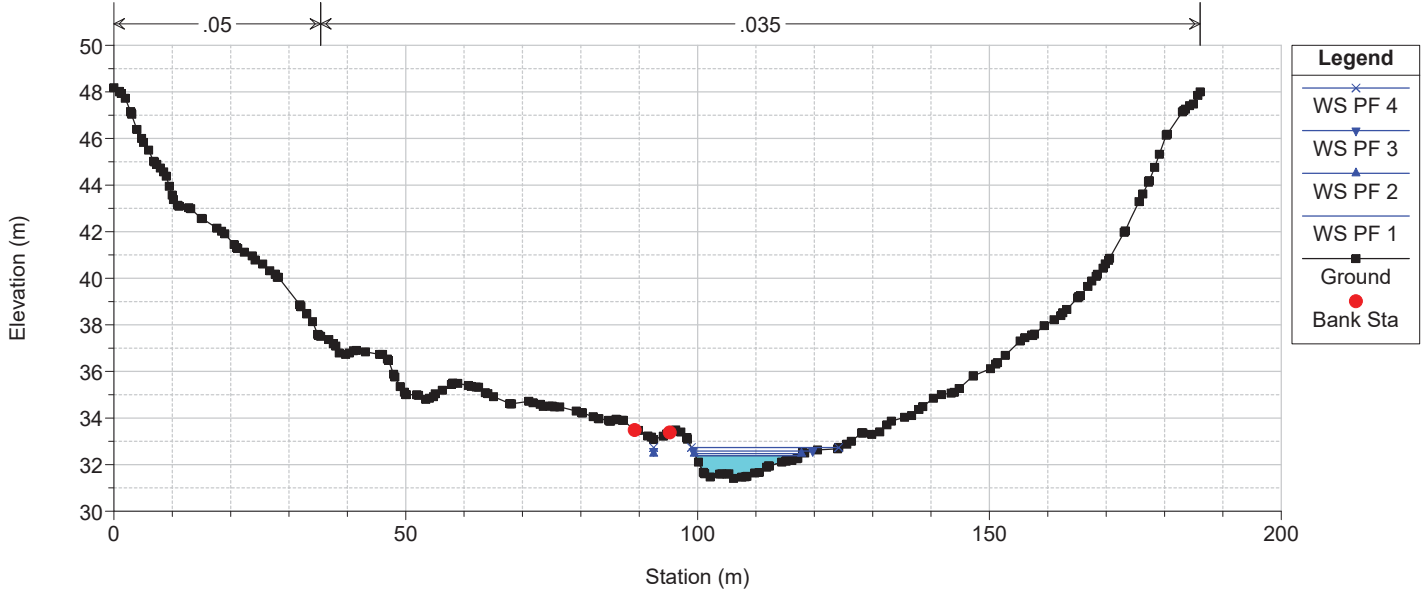
River = Rio Crabolu Reach = Asta 2 RS = 1602.575 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

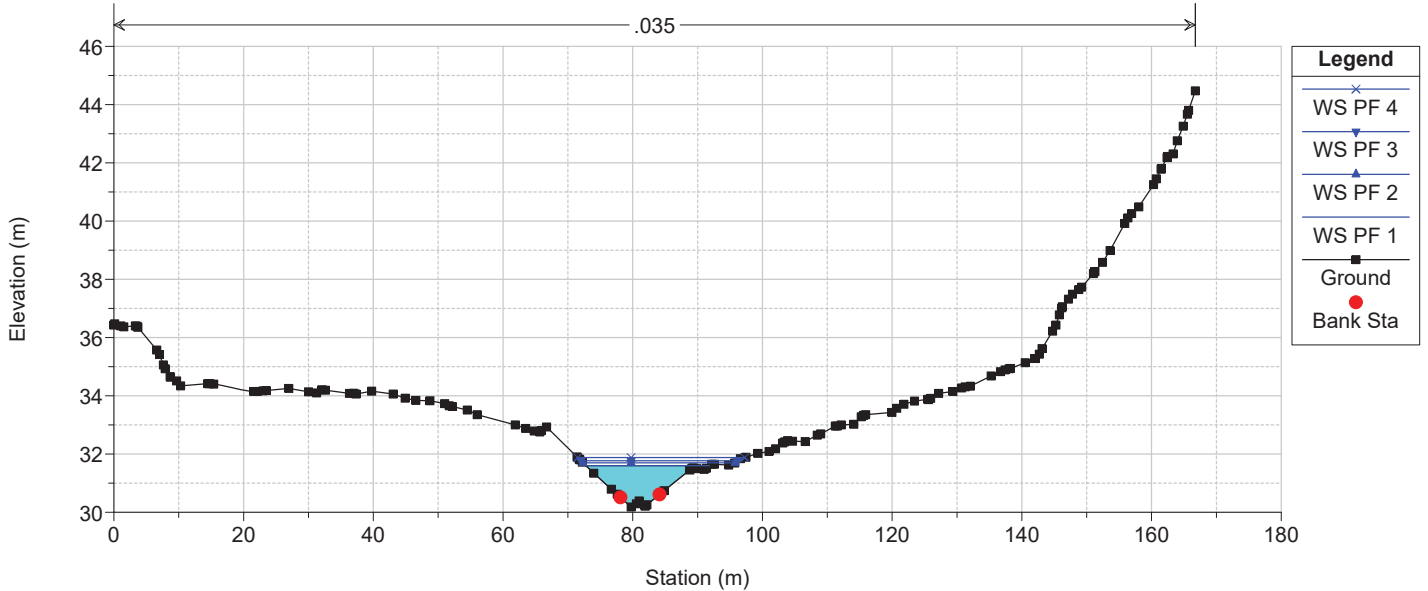
River = Rio Crabolu Reach = Asta 2 RS = 1544.648 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

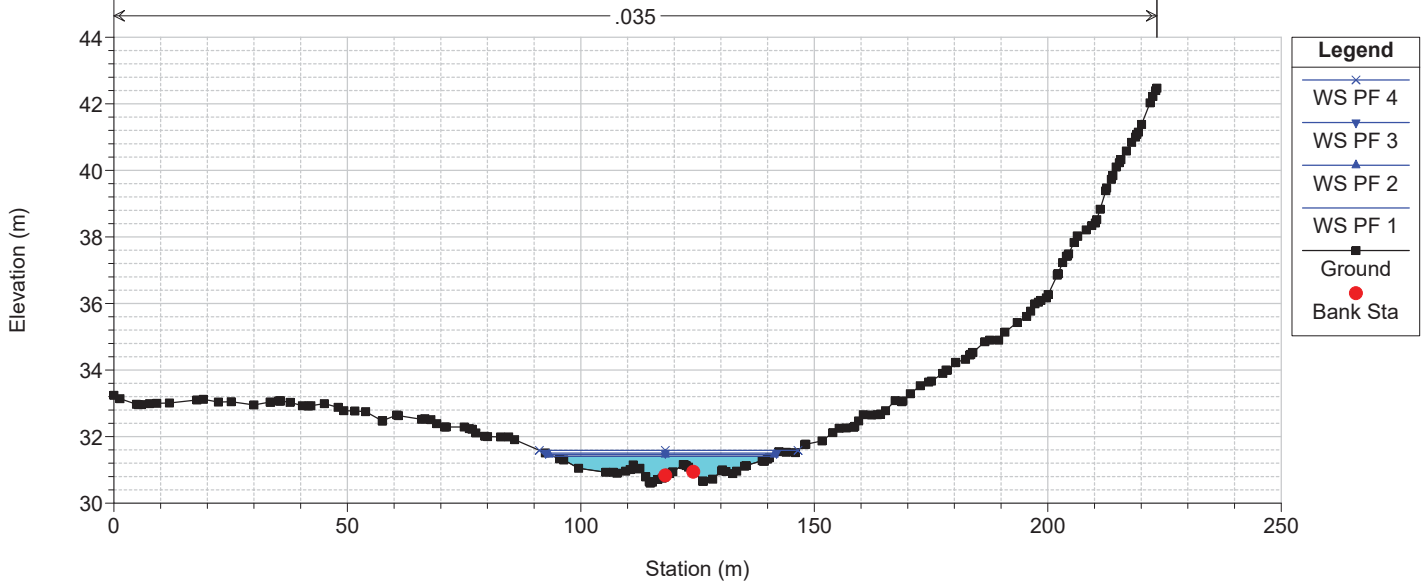
River = Rio Crabolu Reach = Asta 2 RS = 1499.38 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

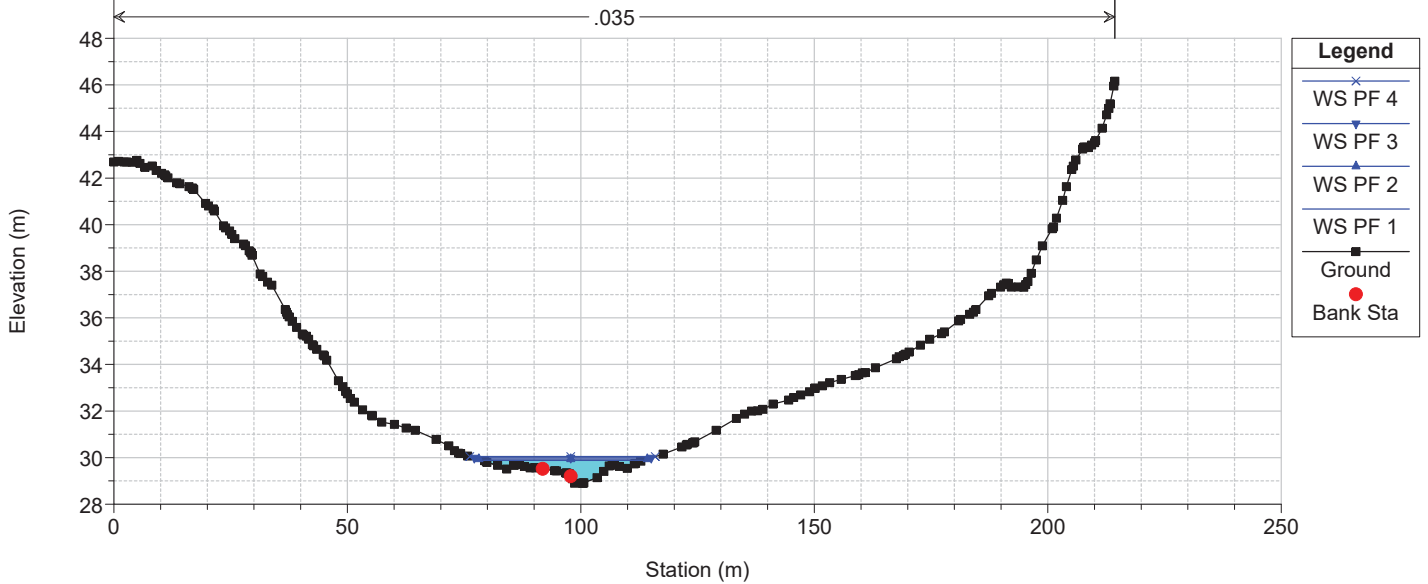
River = Rio Crabolu Reach = Asta 2 RS = 1454.534 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

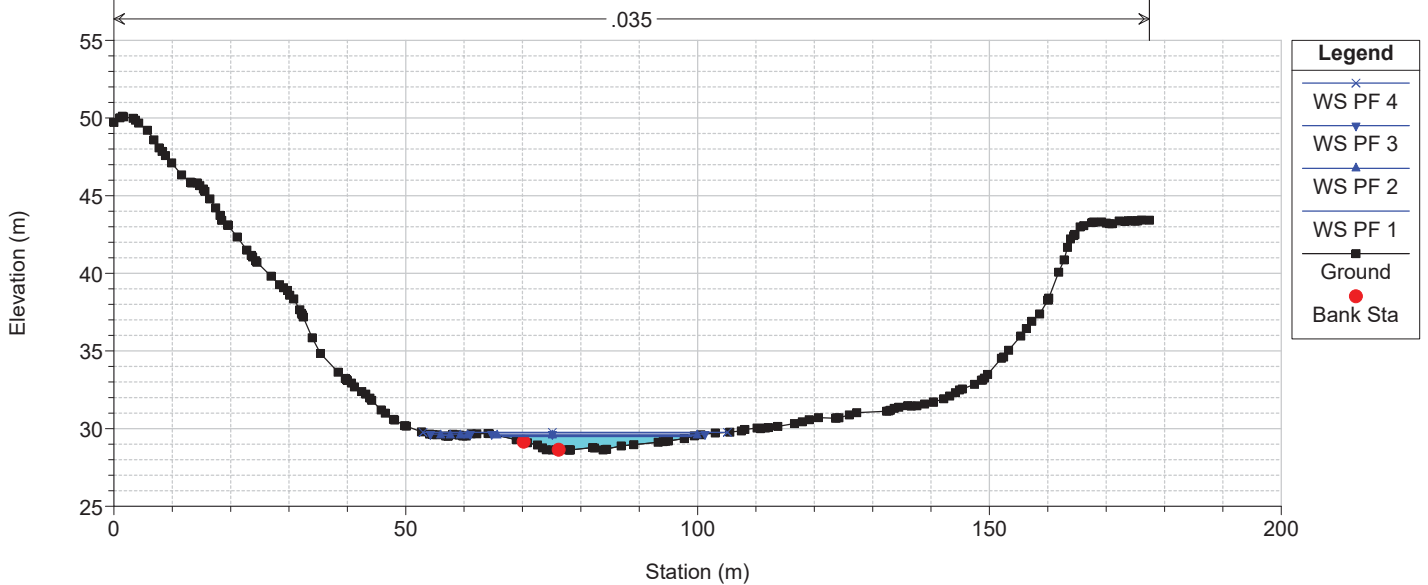
River = Rio Crabolu Reach = Asta 2 RS = 1395.858 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

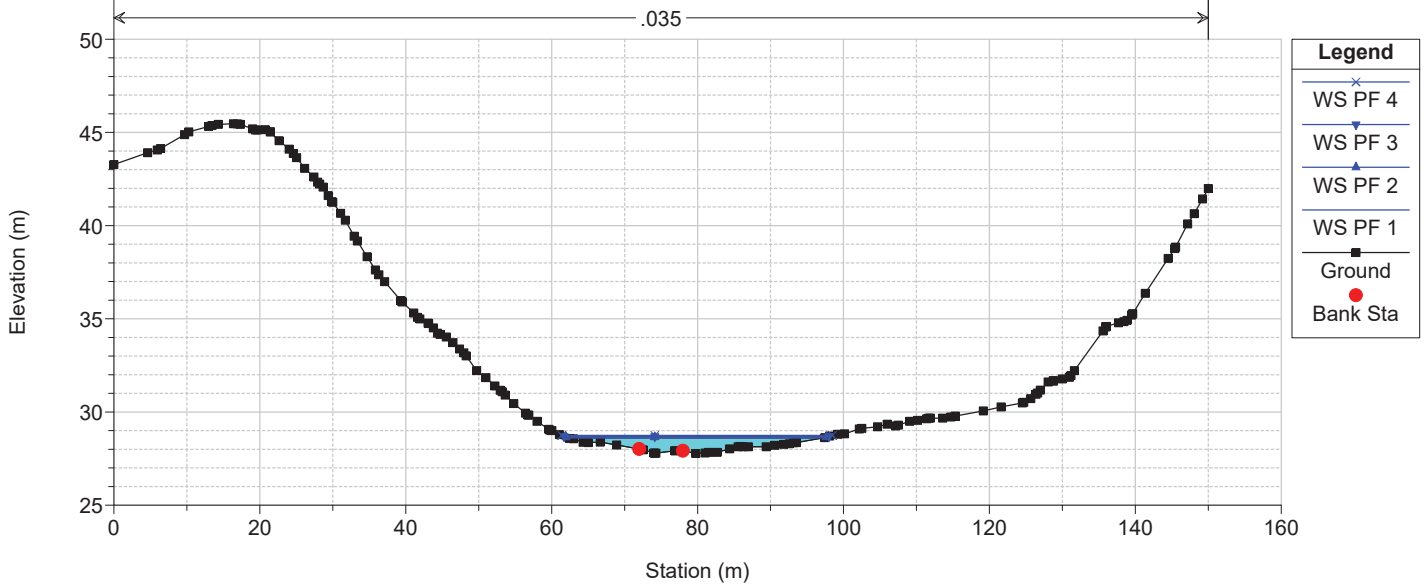
River = Rio Crabolu Reach = Asta 2 RS = 1355.892 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

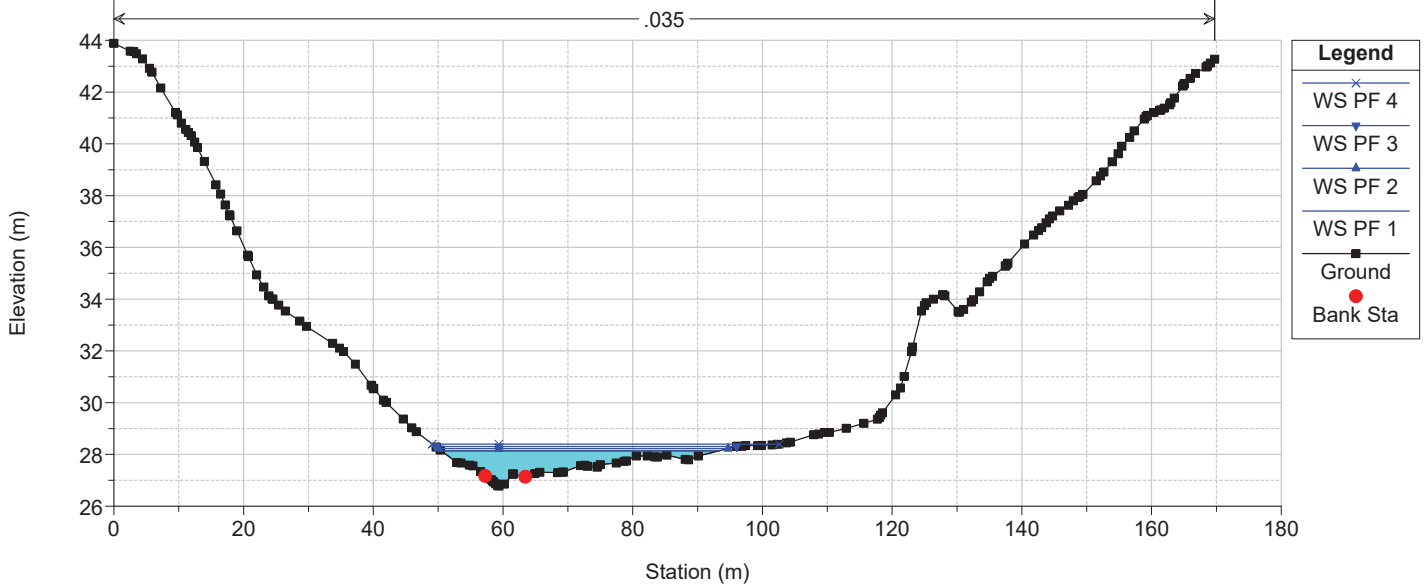
River = Rio Crabolu Reach = Asta 2 RS = 1300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

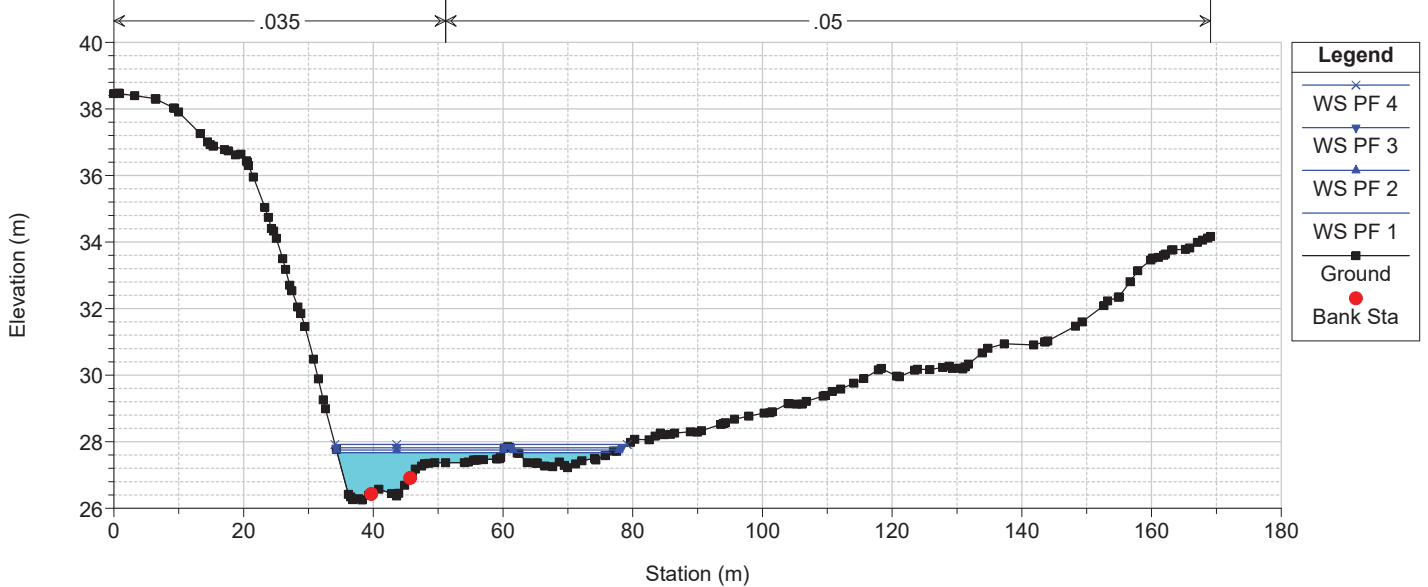
River = Rio Crabolu Reach = Asta 2 RS = 1255.209 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

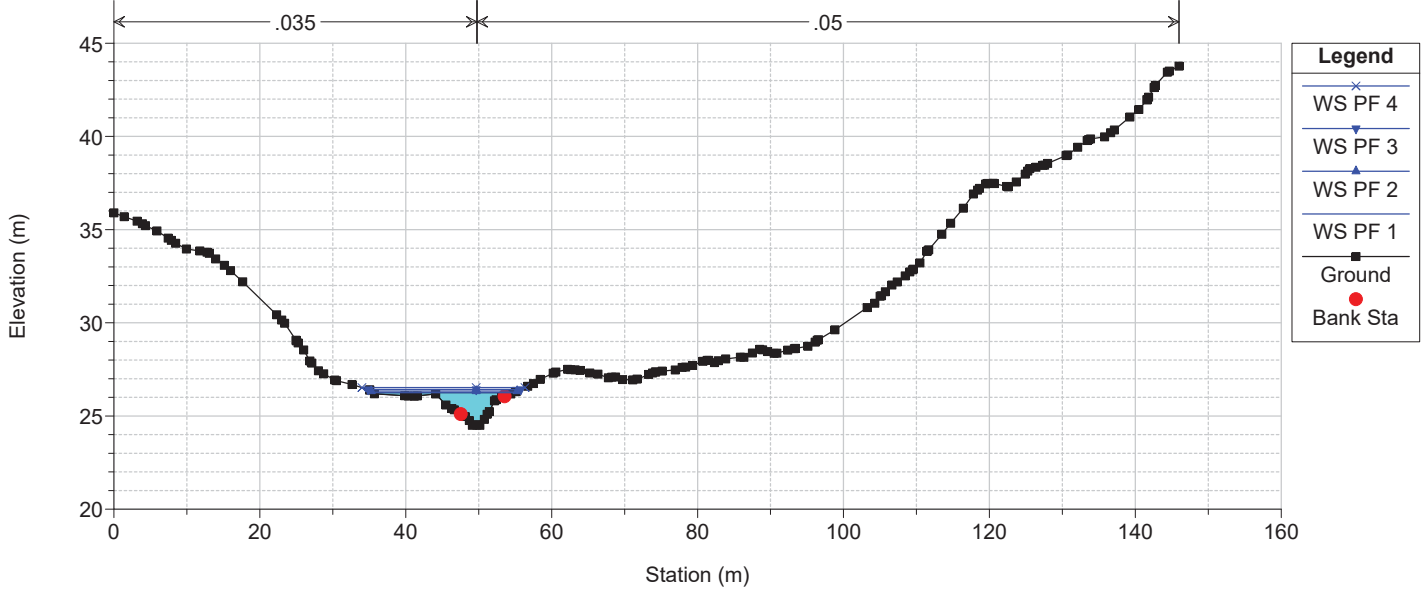
River = Rio Crabolu Reach = Asta 2 RS = 1201.843 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

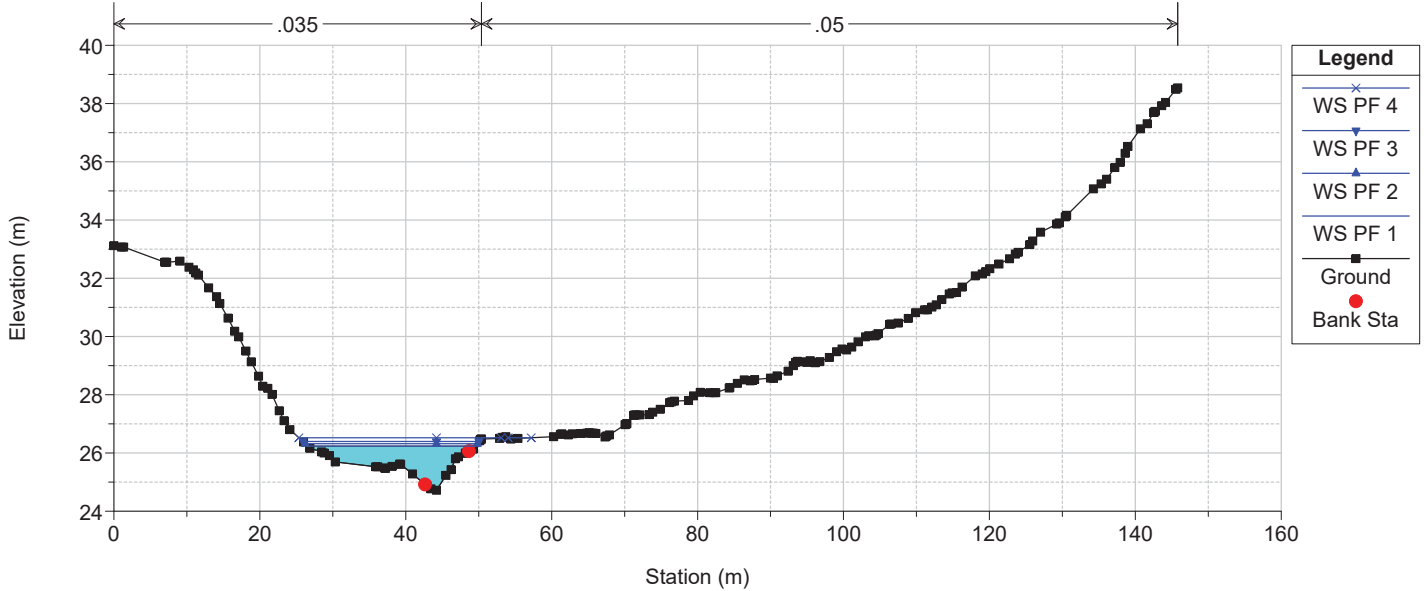
River = Rio Crabolu Reach = Asta 2 RS = 1147.617 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

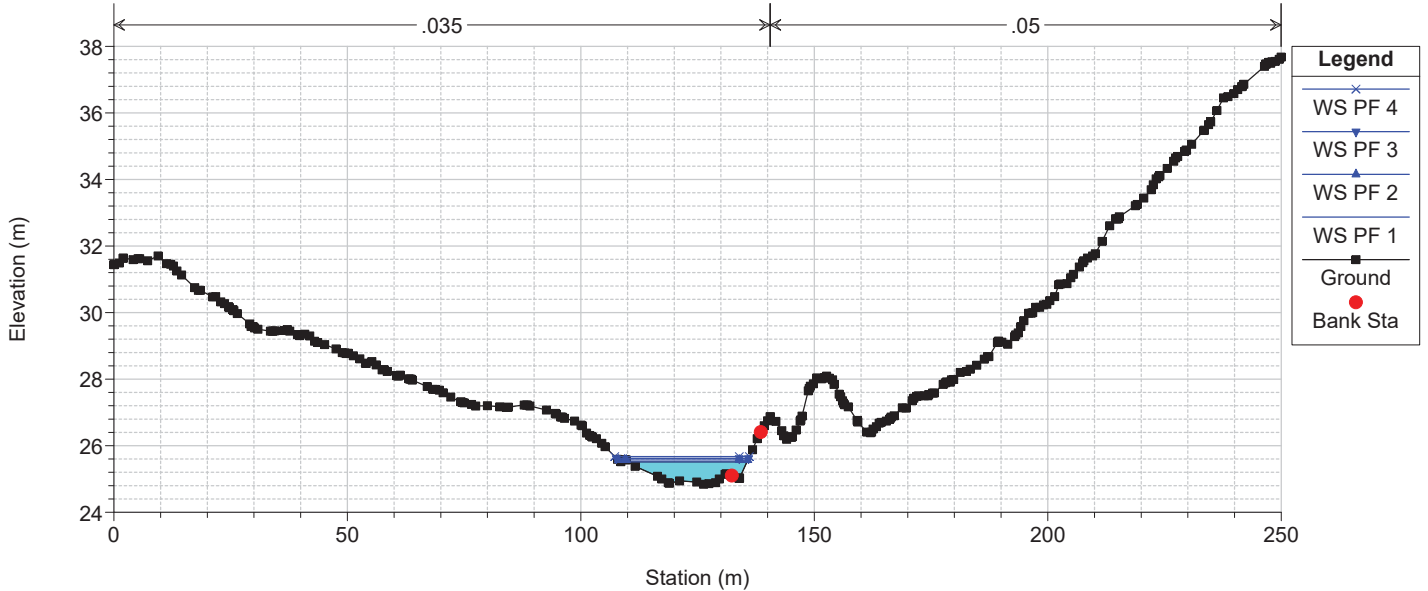
River = Rio Crabolu Reach = Asta 2 RS = 1123.194 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

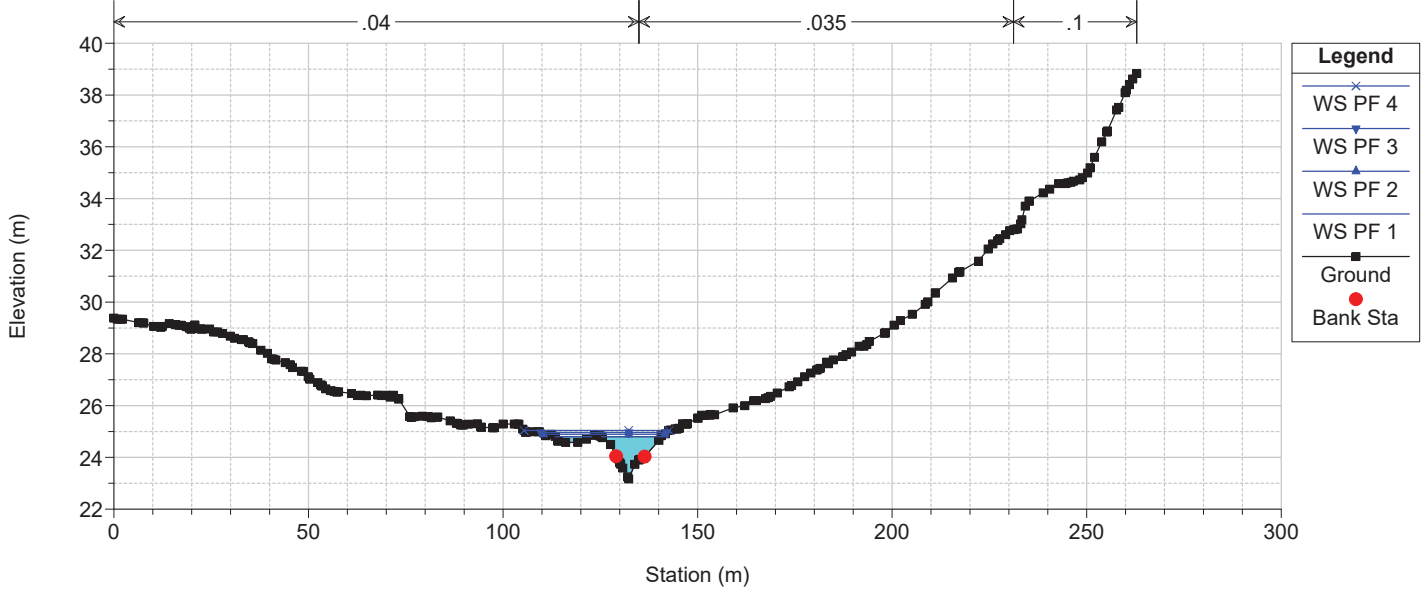
River = Rio Crabolu Reach = Asta 2 RS = 1102.01 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

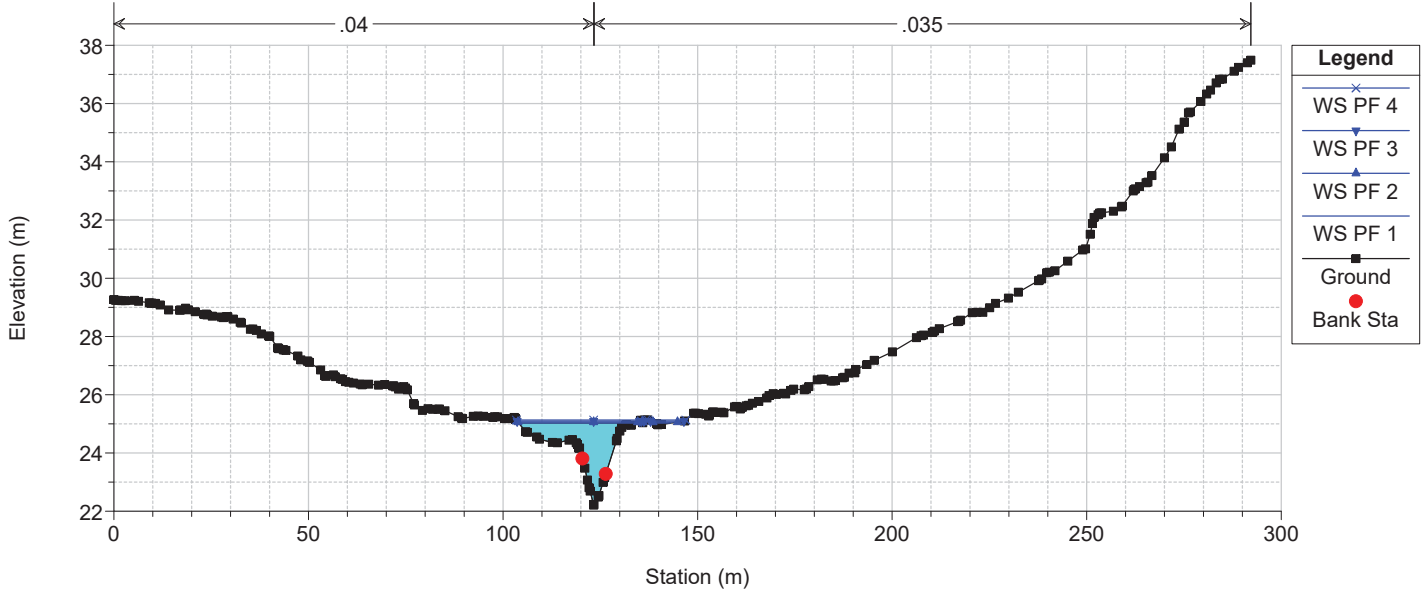
River = Rio Crabolu Reach = Asta 2 RS = 1078.488 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

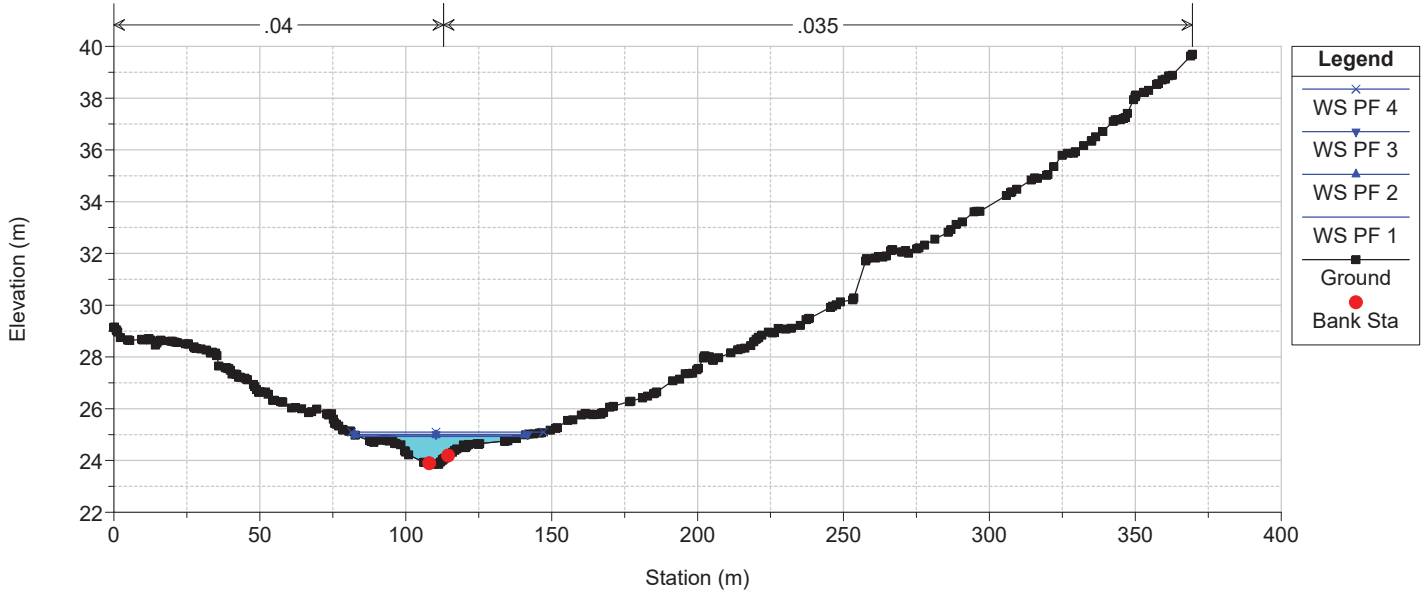
River = Rio Crabolu Reach = Asta 2 RS = 1049.803 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

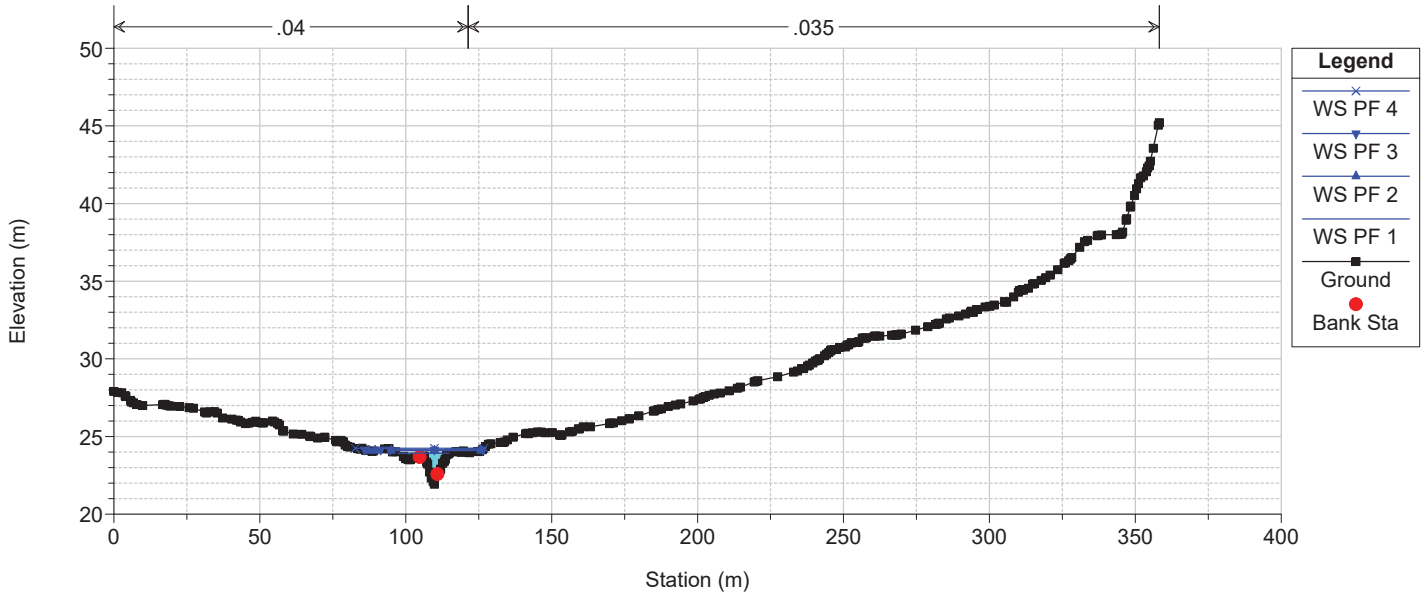
River = Rio Crabolu Reach = Asta 2 RS = 1031.857 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

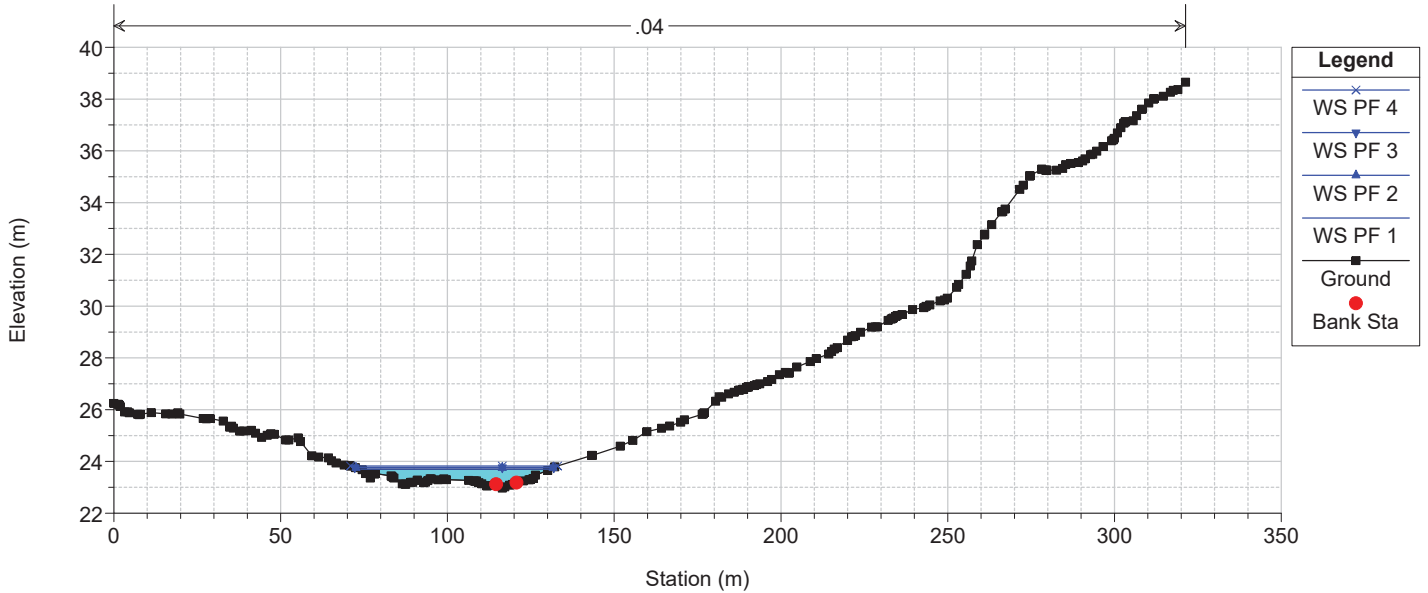
River = Rio Crabolu Reach = Asta 2 RS = 1012.65 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

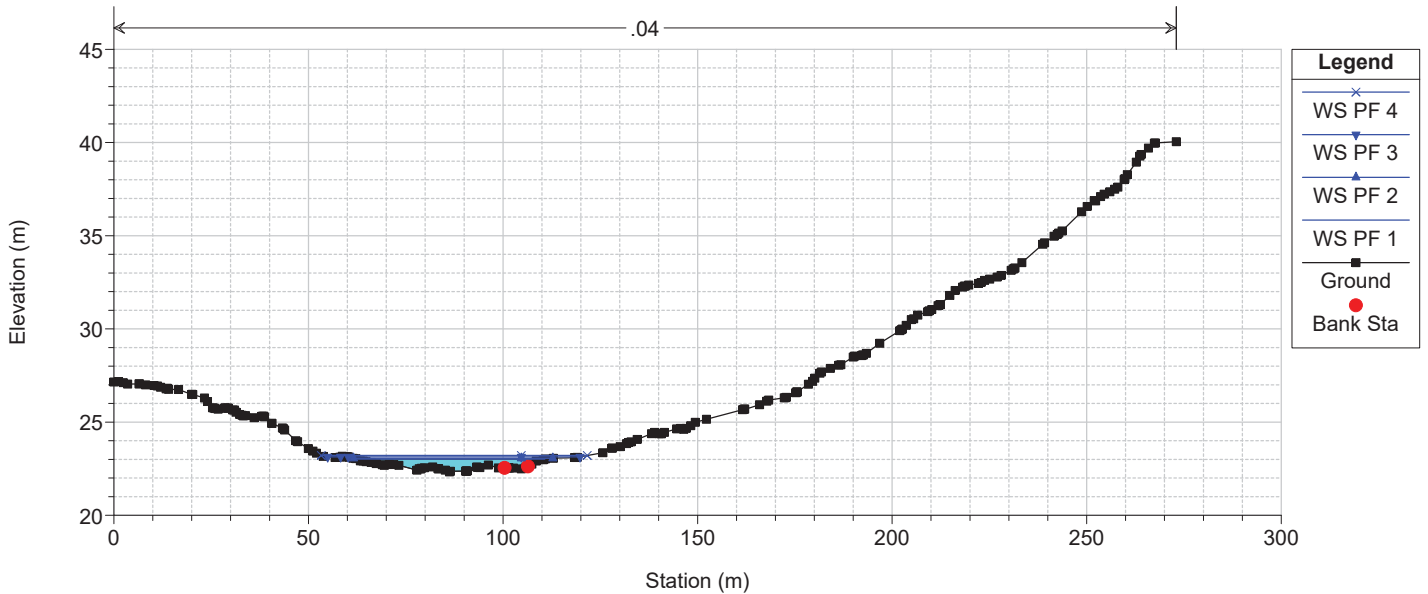
River = Rio Crabolu Reach = Asta 2 RS = 979.4611 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

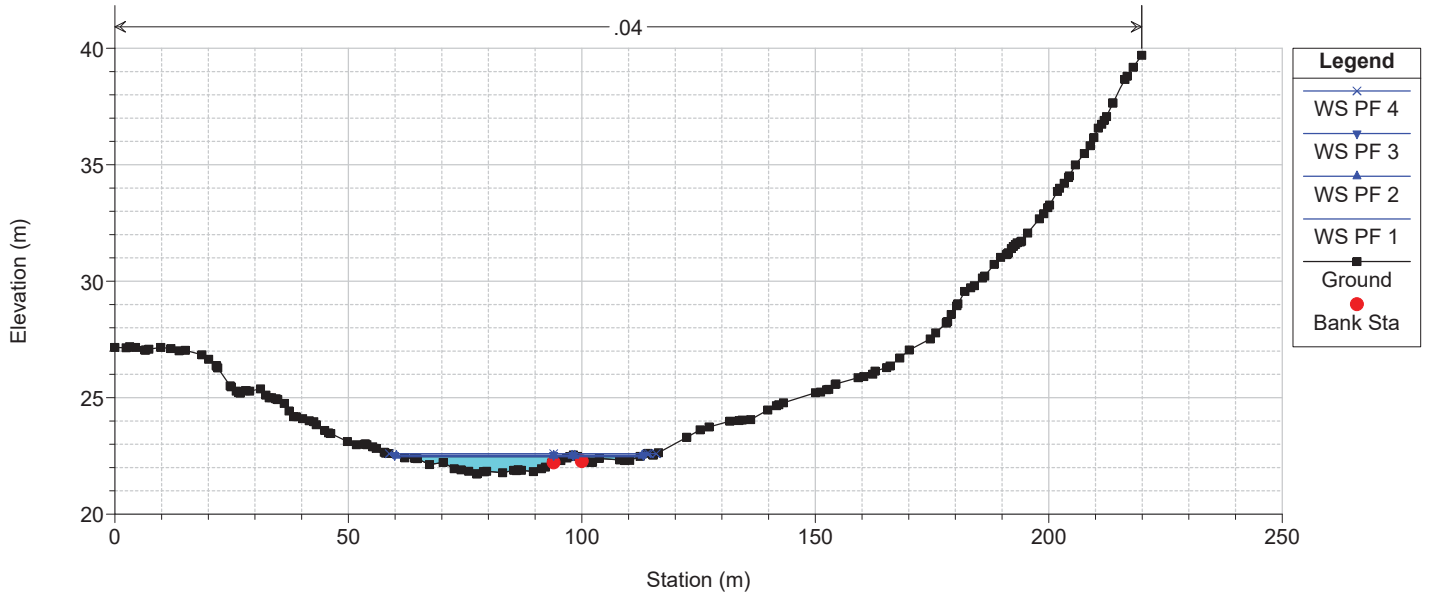
River = Rio Crabolu Reach = Asta 2 RS = 939.4351 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

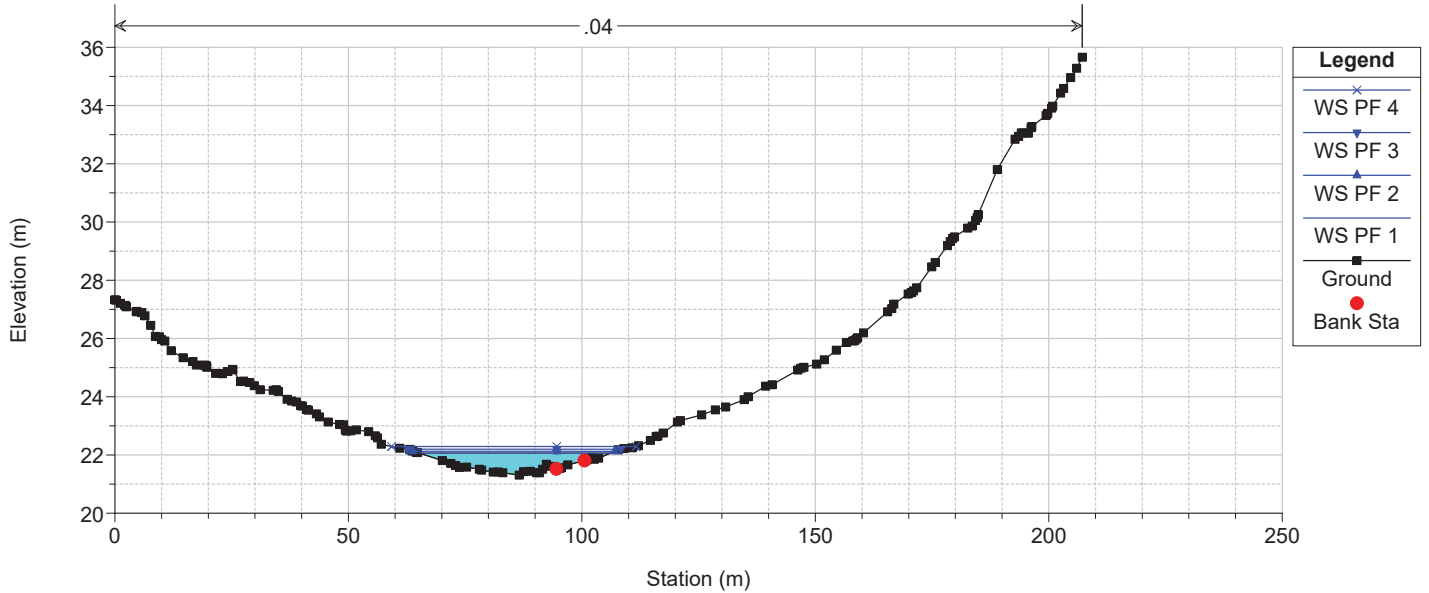
River = Rio Crabolu Reach = Asta 2 RS = 918.9291 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

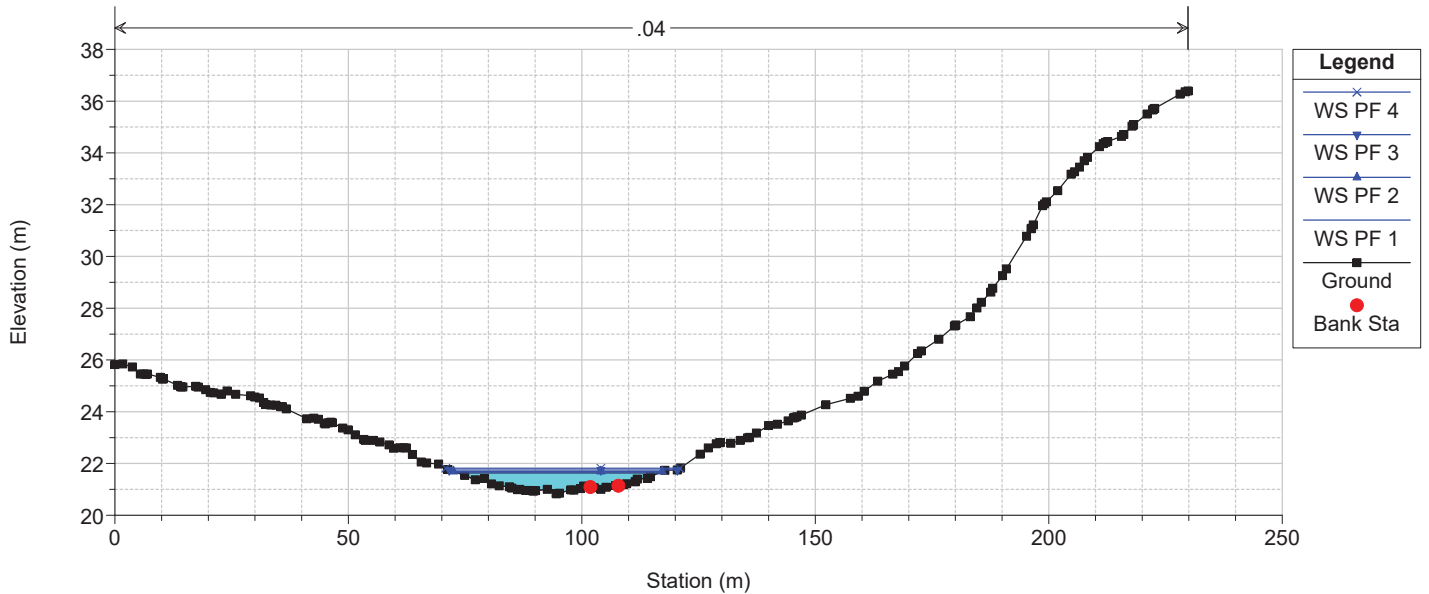
River = Rio Crabolu Reach = Asta 2 RS = 901.2863 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

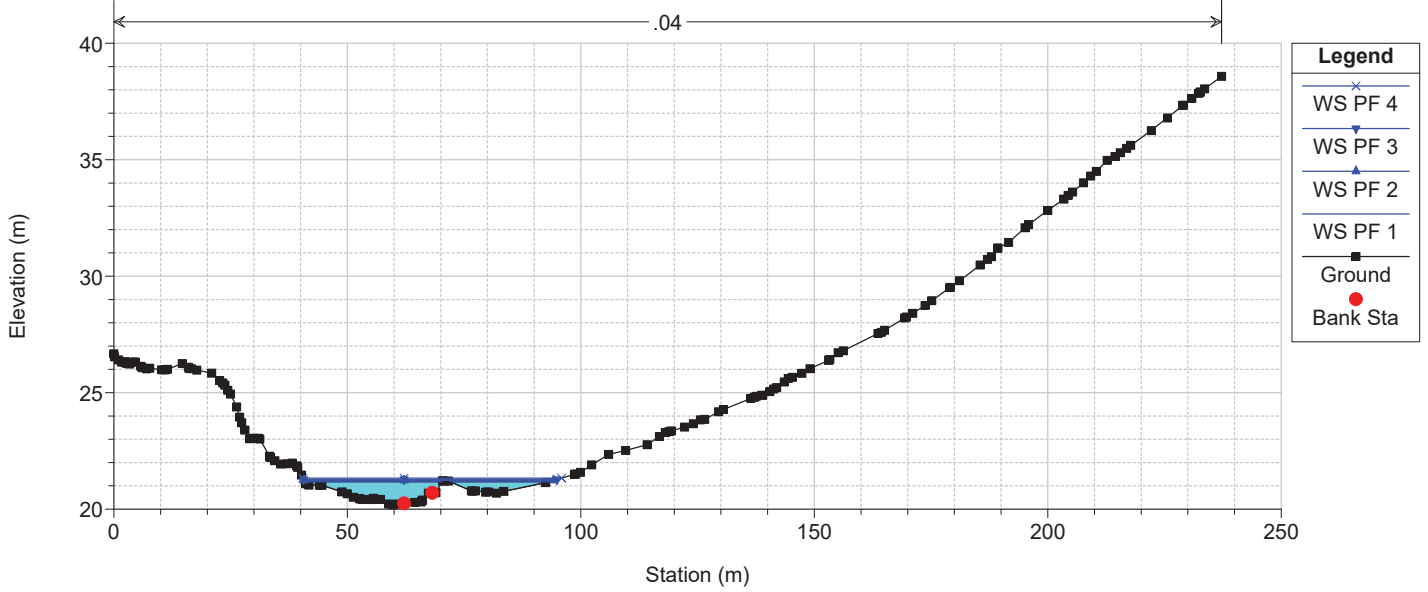
River = Rio Crabolu Reach = Asta 2 RS = 870.4627 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

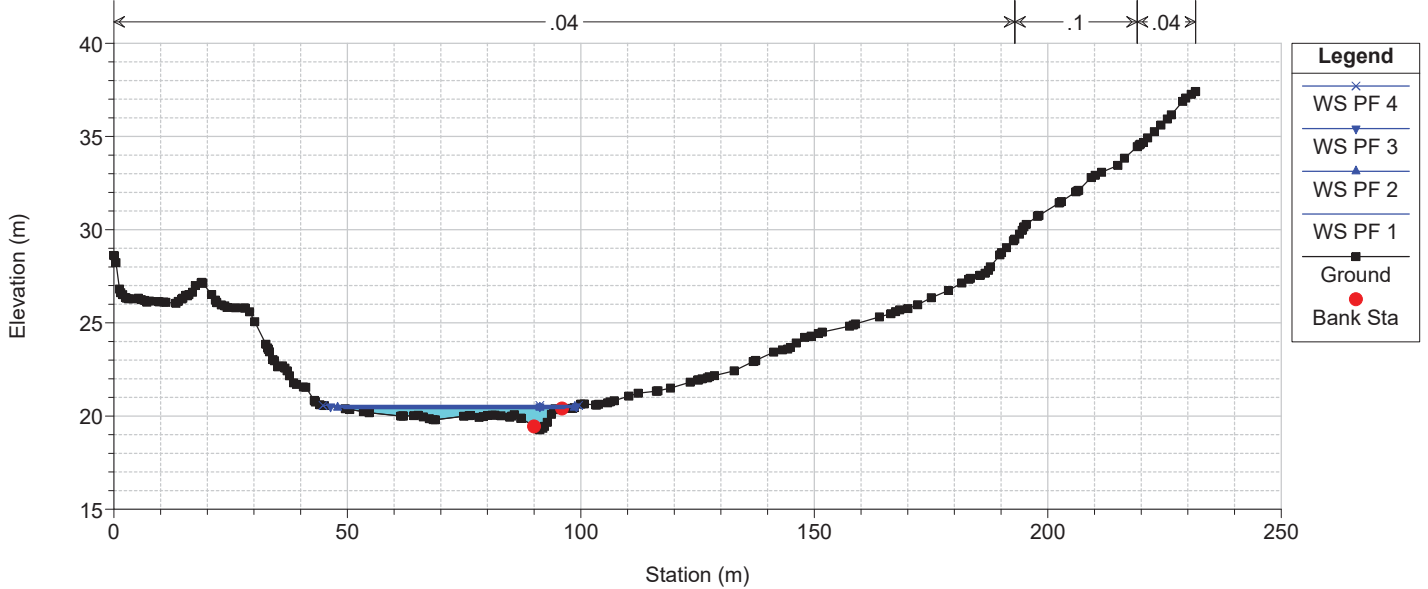
River = Rio Crabolu Reach = Asta 2 RS = 833.6752 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

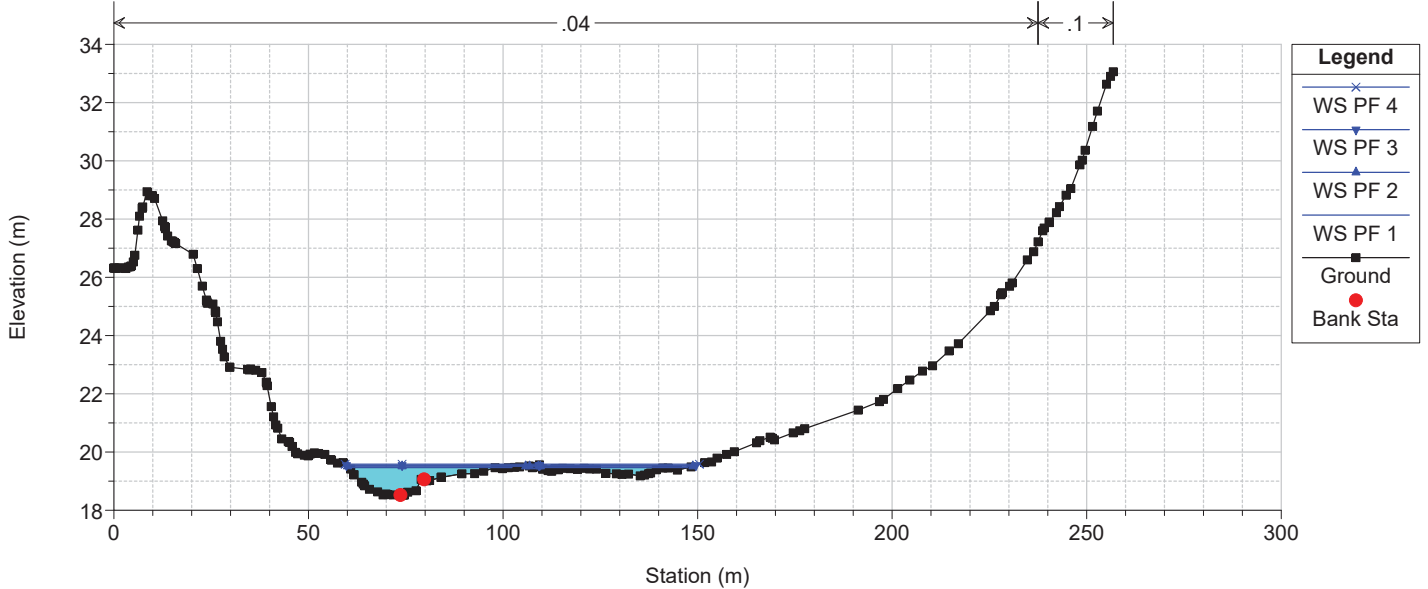
River = Rio Crabolu Reach = Asta 2 RS = 781.4929 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

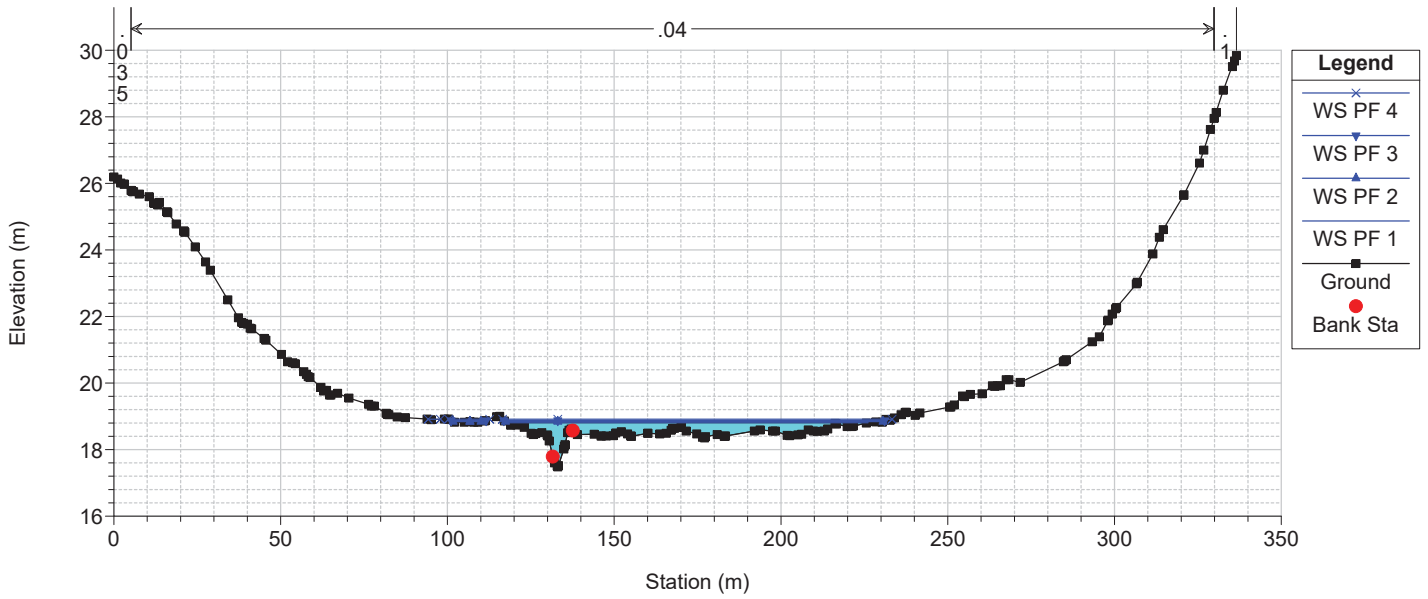
River = Rio Crabolu Reach = Asta 2 RS = 722.1672 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

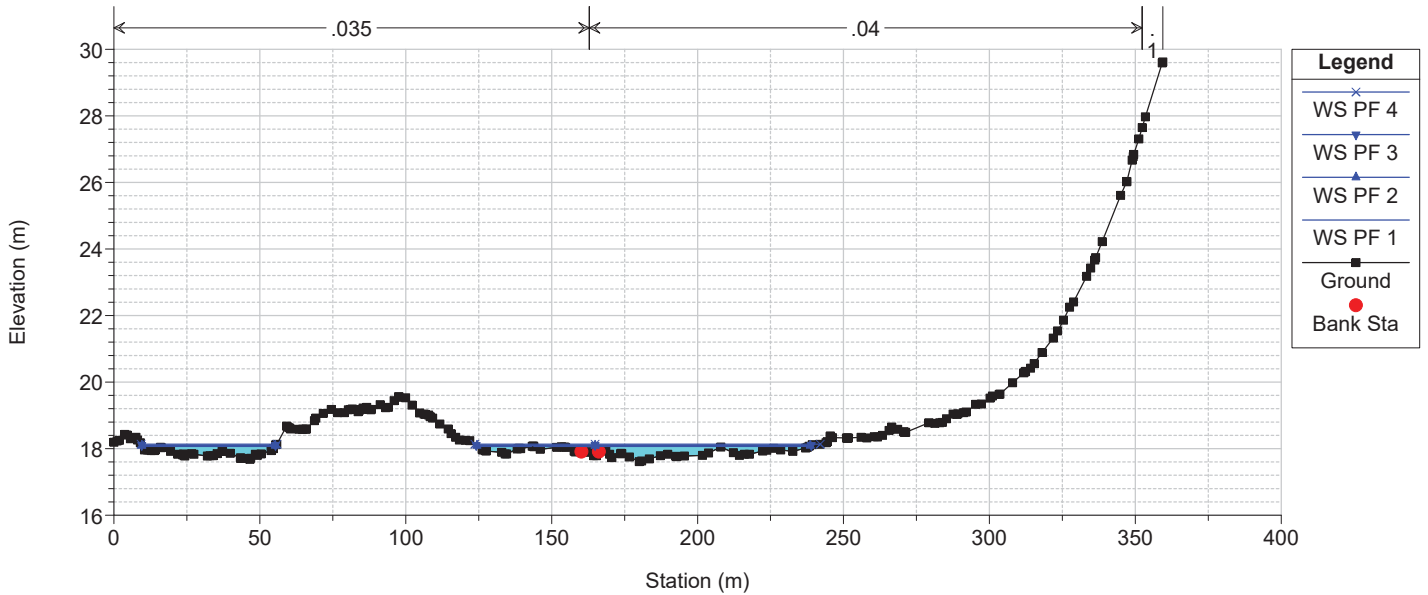
River = Rio Crabolu Reach = Asta 2 RS = 653.4905 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

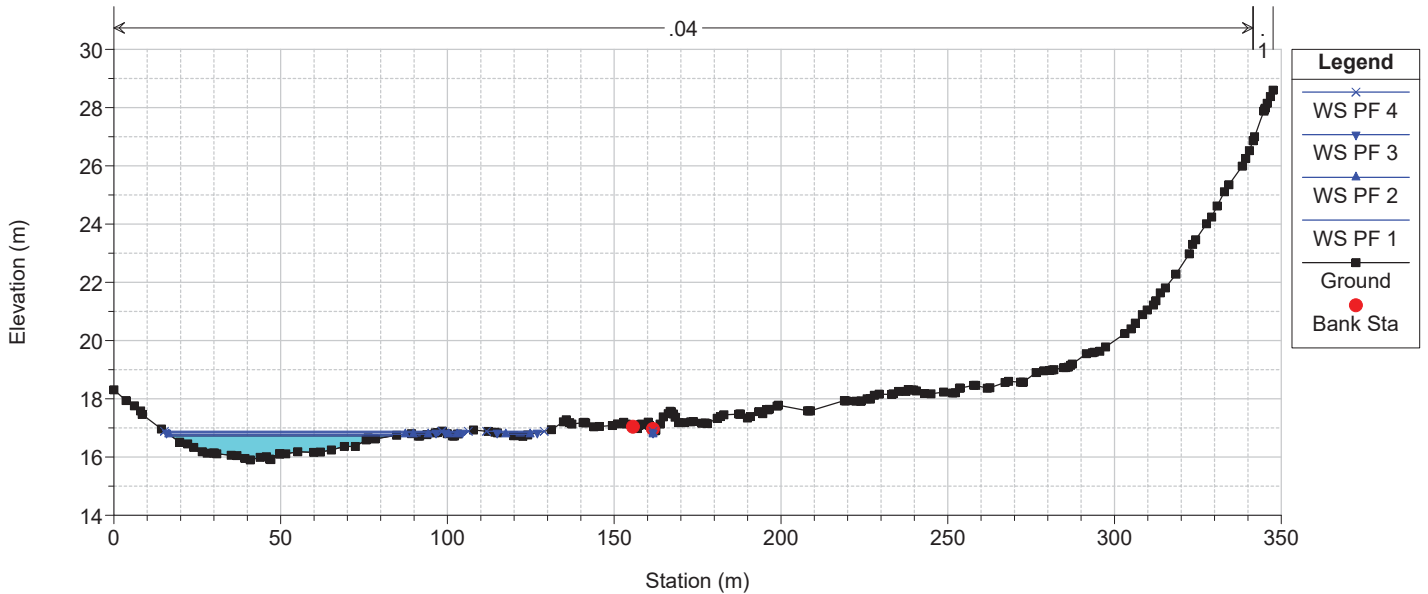
River = Rio Crabolu Reach = Asta 2 RS = 599.7112 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

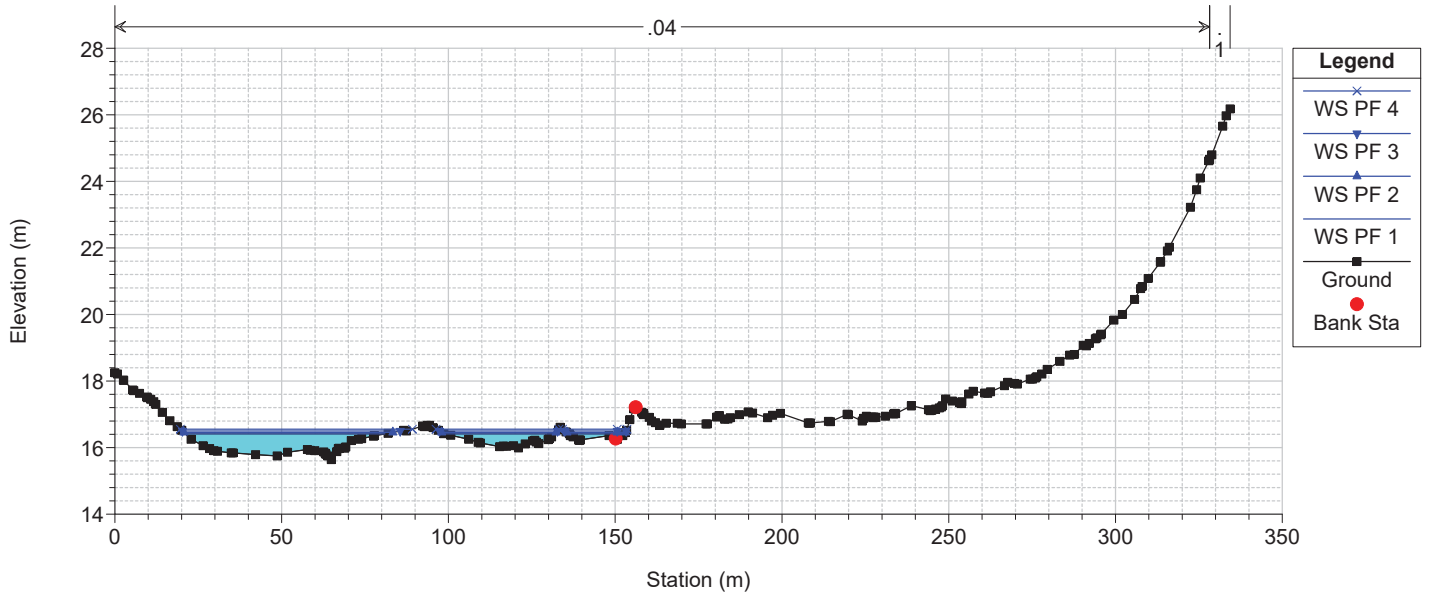
River = Rio Crabolu Reach = Asta 2 RS = 550.0848 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

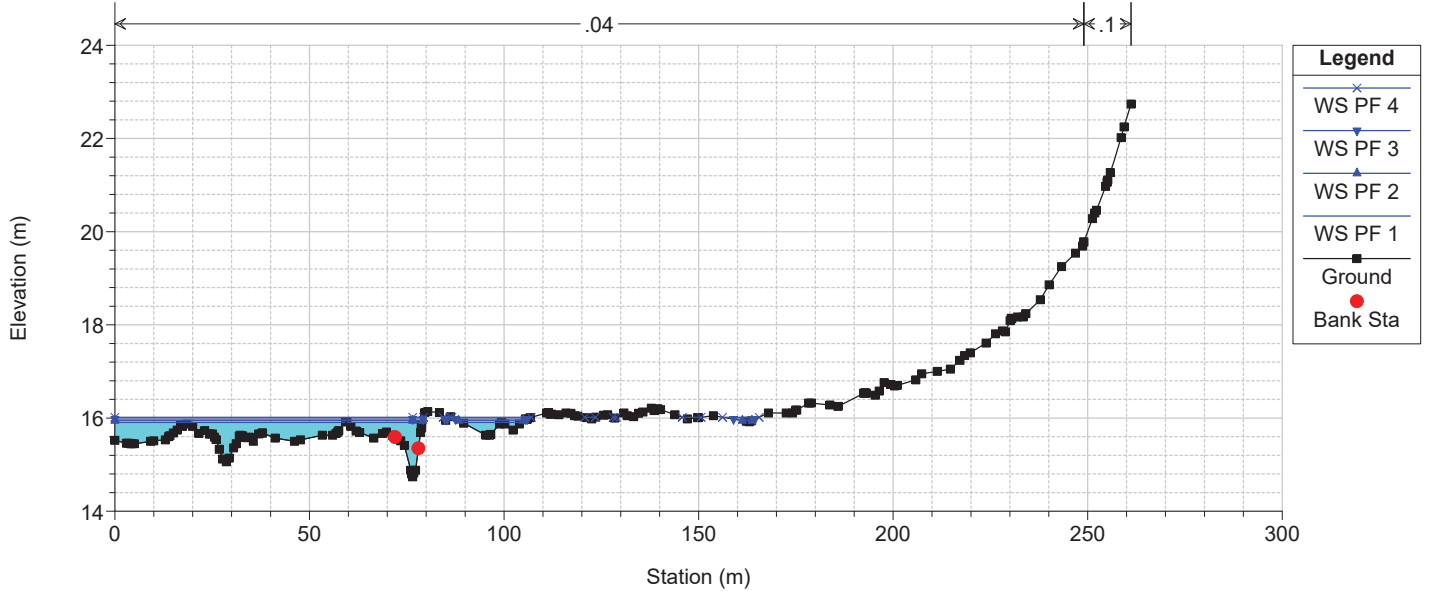
River = Rio Crabolu Reach = Asta 2 RS = 500.7512 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

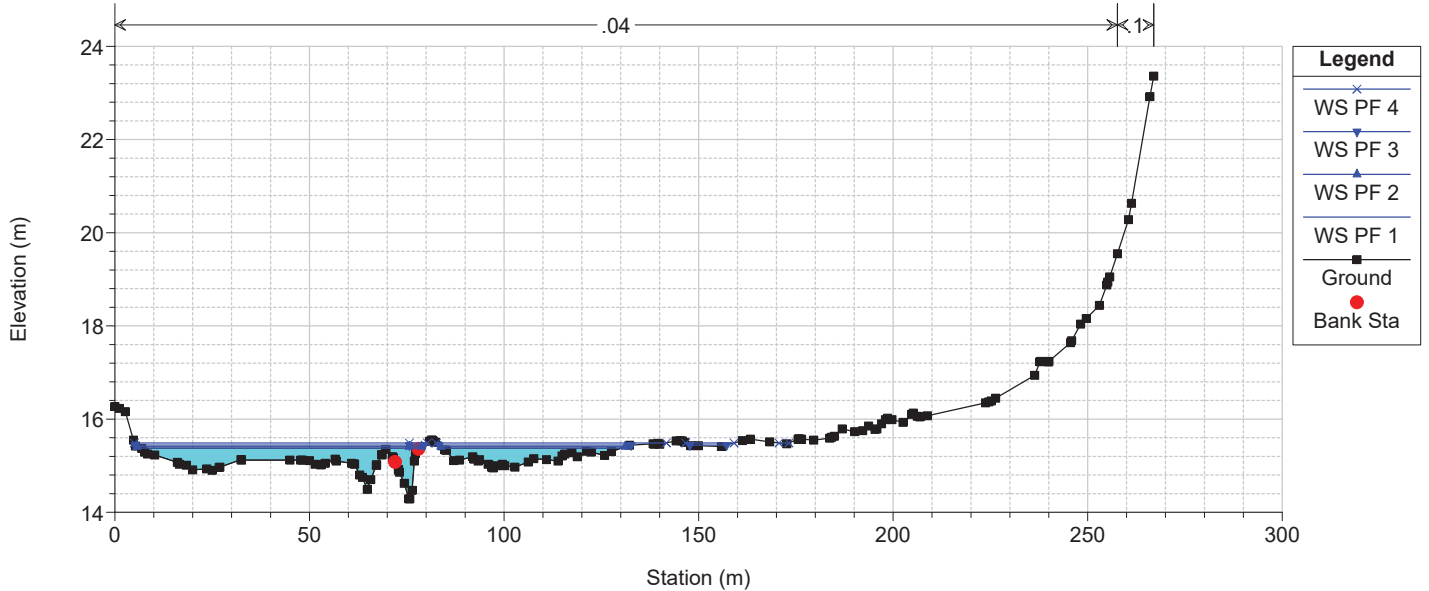
River = Rio Crabolu Reach = Asta 2 RS = 450 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

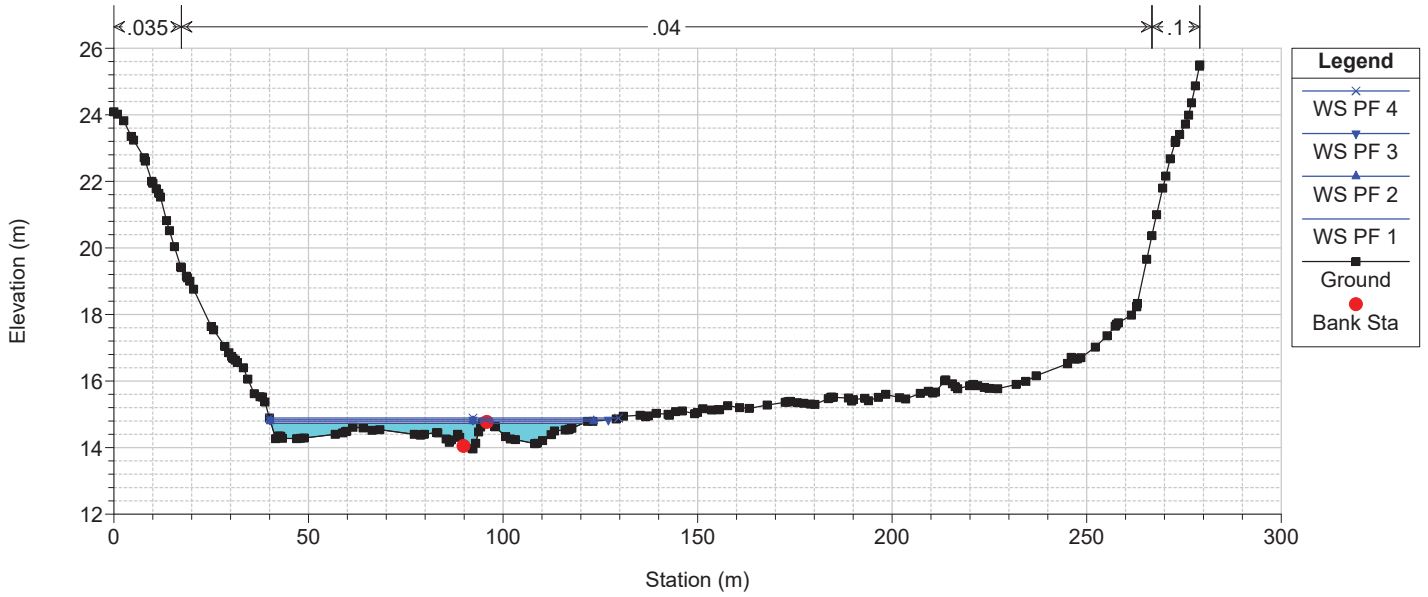
River = Rio Crabolu Reach = Asta 2 RS = 400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

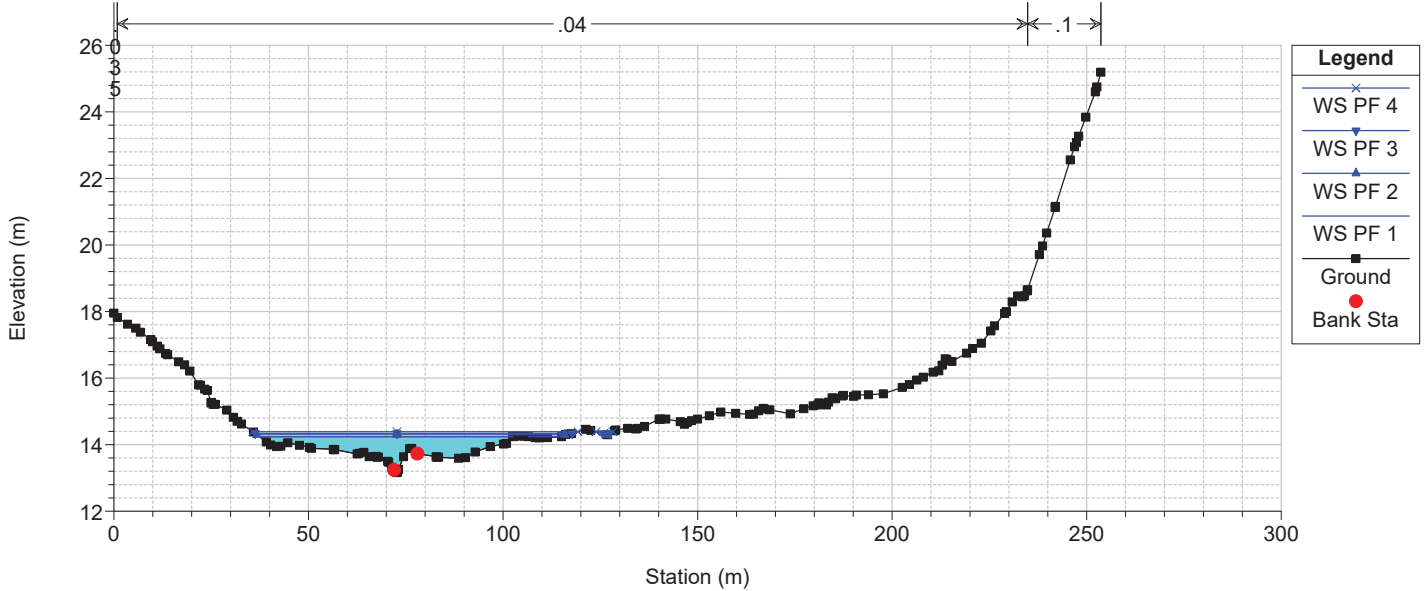
River = Rio Crabolu Reach = Asta 2 RS = 348.6802 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

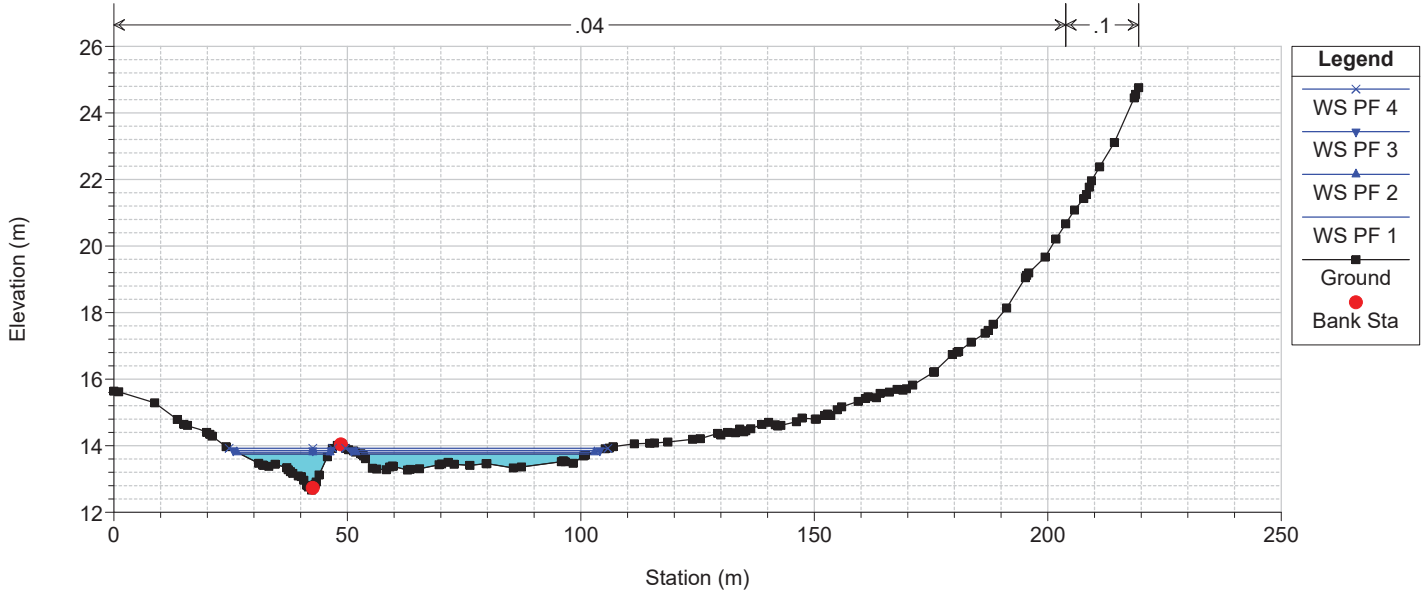
River = Rio Crabolu Reach = Asta 2 RS = 300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

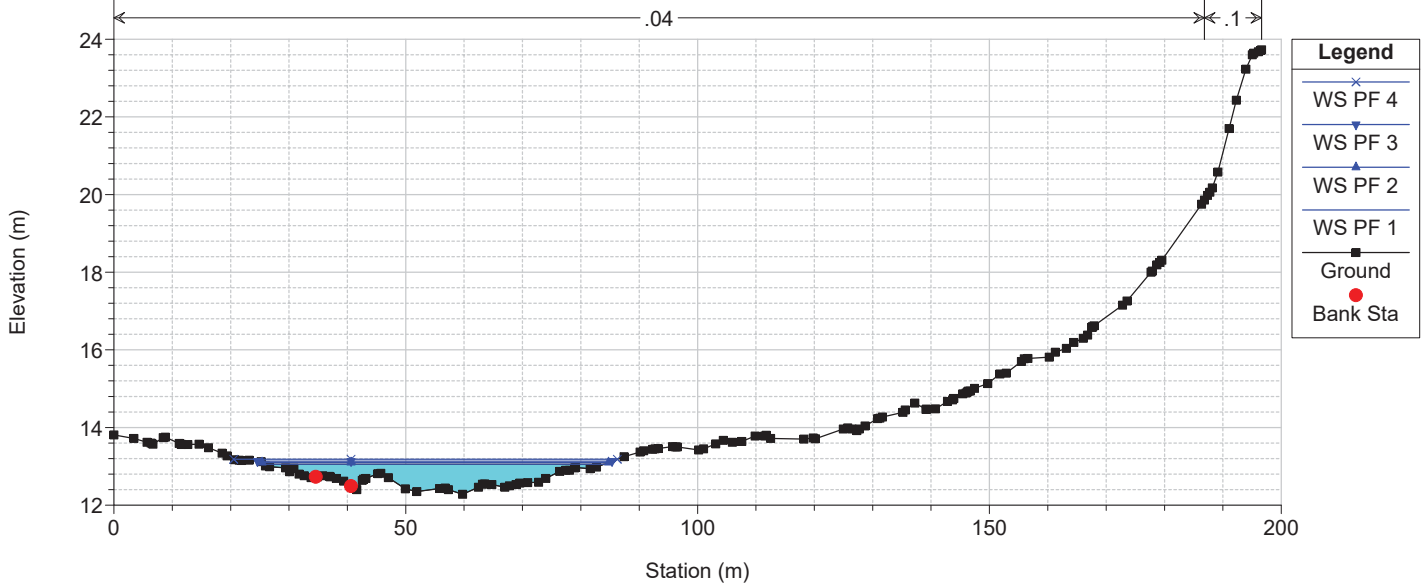
River = Rio Crabolu Reach = Asta 2 RS = 258.9499 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

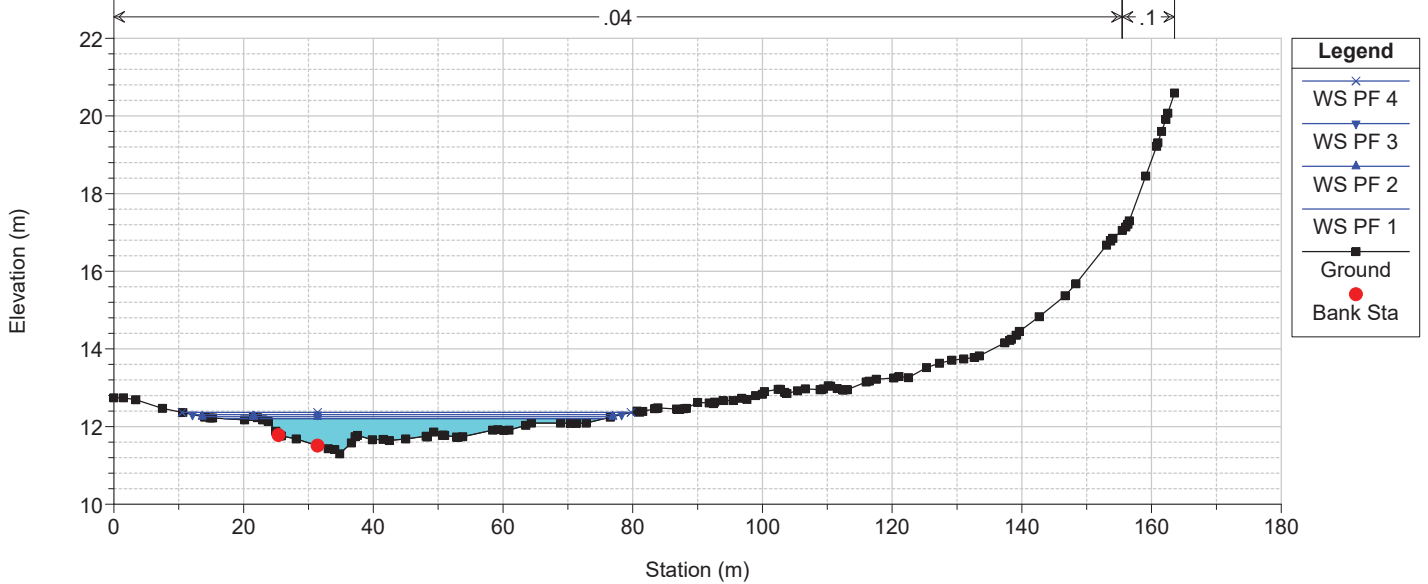
River = Rio Crabolu Reach = Asta 2 RS = 212.1705 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

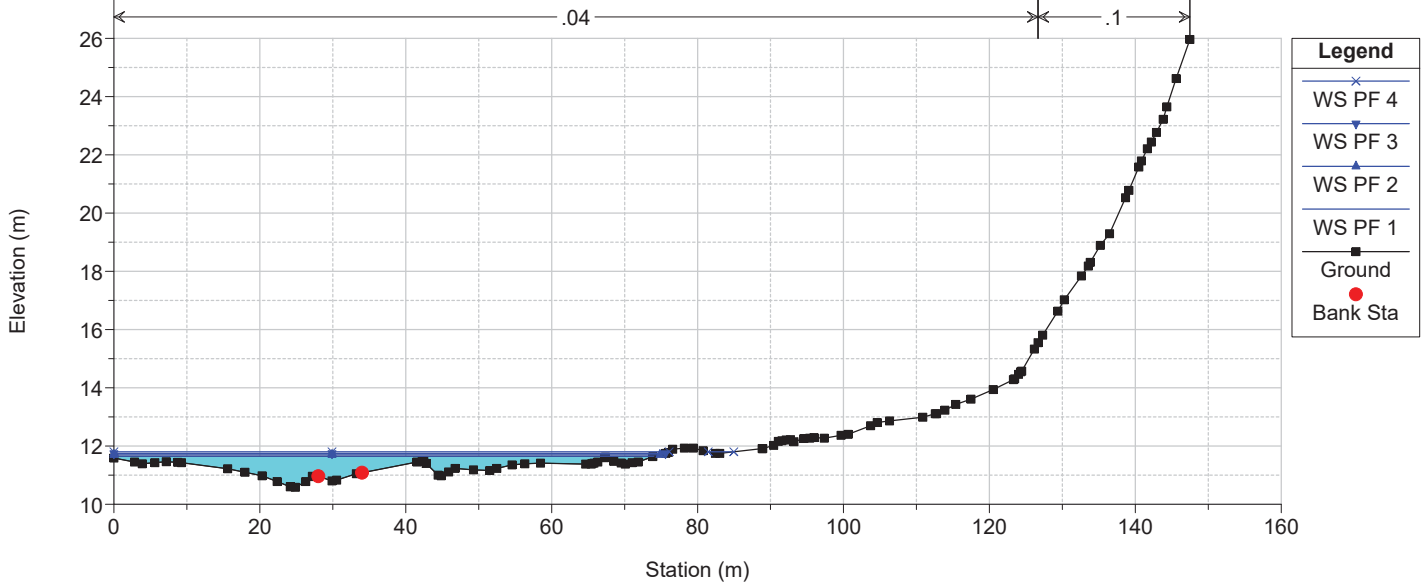
River = Rio Crabolu Reach = Asta 2 RS = 163.6459 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

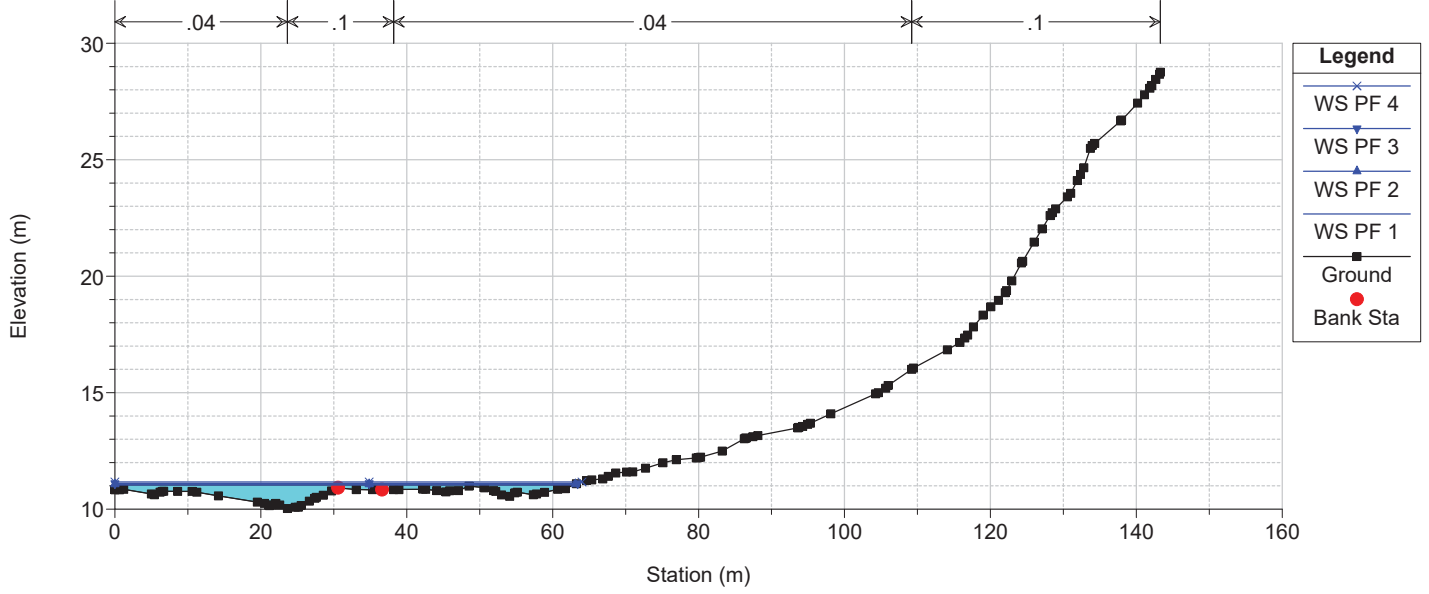
River = Rio Crabolu Reach = Asta 2 RS = 114.792 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

River = Rio Crabolu Reach = Asta 2 RS = 73.29565 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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	PF 1	17.73	80.66	81.20	81.20	81.42	0.016245	2.10	8.51	19.58	1.01
Asta 1	3100	PF 2	20.59	80.66	81.24	81.24	81.49	0.015674	2.21	9.44	19.93	1.01
Asta 1	3100	PF 3	23.51	80.66	81.29	81.29	81.55	0.015169	2.31	10.36	20.30	1.01
Asta 1	3100	PF 4	27.61	80.66	81.35	81.35	81.64	0.014515	2.43	11.64	20.79	1.00
Asta 1	3050	PF 1	17.73	76.18	76.44	76.81	78.87	0.475086	6.77	2.57	12.32	4.80
Asta 1	3050	PF 2	20.59	76.18	76.47	76.85	79.03	0.443562	6.93	2.91	12.77	4.70
Asta 1	3050	PF 3	23.51	76.18	76.49	76.89	79.16	0.419351	7.08	3.25	13.26	4.63
Asta 1	3050	PF 4	27.61	76.18	76.53	76.95	79.34	0.393044	7.28	3.72	13.90	4.55
Asta 1	3000	PF 1	17.73	72.83	73.33	73.42	73.67	0.037889	2.95	6.88	22.01	1.50
Asta 1	3000	PF 2	20.59	72.83	73.35	73.46	73.75	0.039247	3.11	7.48	22.17	1.54
Asta 1	3000	PF 3	23.51	72.83	73.38	73.51	73.82	0.040443	3.26	8.06	22.32	1.58
Asta 1	3000	PF 4	27.61	72.83	73.41	73.56	73.92	0.041919	3.45	8.82	22.52	1.62
Asta 1	2950	PF 1	17.73	70.01	70.35	70.52	70.93	0.080087	3.31	5.25	19.56	2.06
Asta 1	2950	PF 2	20.59	70.01	70.38	70.57	71.01	0.075819	3.44	5.86	19.69	2.03
Asta 1	2950	PF 3	23.51	70.01	70.41	70.61	71.09	0.072385	3.56	6.46	19.81	2.02
Asta 1	2950	PF 4	27.61	70.01	70.45	70.67	71.19	0.068832	3.71	7.25	19.97	2.00
Asta 1	2900.257	PF 1	17.73	67.31	67.77	67.87	68.13	0.039410	2.41	6.66	20.64	1.45
Asta 1	2900.257	PF 2	20.59	67.31	67.80	67.92	68.21	0.040982	2.55	7.23	20.81	1.49
Asta 1	2900.257	PF 3	23.51	67.31	67.83	67.96	68.29	0.042412	2.69	7.78	20.98	1.53
Asta 1	2900.257	PF 4	27.61	67.31	67.86	68.02	68.40	0.044029	2.86	8.51	21.19	1.58
Asta 1	2849.469	PF 1	17.73	64.57	64.93	65.08	65.42	0.075914	3.64	5.87	25.86	2.06
Asta 1	2849.469	PF 2	20.59	64.57	64.96	65.12	65.48	0.073249	3.74	6.55	26.31	2.04
Asta 1	2849.469	PF 3	23.51	64.57	64.98	65.15	65.55	0.071107	3.85	7.20	26.75	2.03
Asta 1	2849.469	PF 4	27.61	64.57	65.01	65.20	65.63	0.069163	3.99	8.07	27.33	2.03
Asta 1	2800.184	PF 1	17.73	62.67	63.16	63.21	63.41	0.025038	1.93	7.96	23.09	1.16
Asta 1	2800.184	PF 2	20.59	62.67	63.19	63.25	63.48	0.025509	2.03	8.73	23.58	1.18
Asta 1	2800.184	PF 3	23.51	62.67	63.22	63.30	63.54	0.025982	2.12	9.48	24.06	1.20
Asta 1	2800.184	PF 4	27.61	62.67	63.26	63.35	63.62	0.026342	2.23	10.50	24.99	1.22
Asta 1	2747.168	PF 1	17.73	61.06	61.90	61.98	62.20	0.021363	2.97	7.85	21.28	1.20
Asta 1	2747.168	PF 2	20.59	61.06	61.94	62.02	62.26	0.021226	3.05	8.71	21.50	1.21
Asta 1	2747.168	PF 3	23.51	61.06	61.98	62.05	62.32	0.021058	3.12	9.54	21.69	1.21
Asta 1	2747.168	PF 4	27.61	61.06	62.03	62.11	62.40	0.020932	3.21	10.63	21.94	1.21
Asta 1	2700	PF 1	17.73	59.95	60.51	60.64	60.95	0.032375	3.32	6.42	17.54	1.47
Asta 1	2700	PF 2	20.59	59.95	60.55	60.69	61.02	0.031597	3.45	7.15	17.87	1.47
Asta 1	2700	PF 3	23.51	59.95	60.59	60.74	61.09	0.030955	3.57	7.86	18.18	1.47
Asta 1	2700	PF 4	27.61	59.95	60.64	60.80	61.19	0.030128	3.72	8.83	18.60	1.47
Asta 1	2650	PF 1	17.73	57.81	58.59	58.74	59.06	0.043742	3.47	6.08	19.26	1.66
Asta 1	2650	PF 2	20.59	57.81	58.62	58.80	59.15	0.044416	3.67	6.75	20.24	1.69
Asta 1	2650	PF 3	23.51	57.81	58.65	58.84	59.23	0.045143	3.86	7.39	21.10	1.73
Asta 1	2650	PF 4	27.61	57.81	58.69	58.90	59.33	0.046084	4.10	8.25	22.19	1.77
Asta 1	2599.896	PF 1	17.73	56.35	57.51	57.60	57.89	0.014426	2.94	7.37	16.18	1.04
Asta 1	2599.896	PF 2	20.59	56.35	57.57	57.67	57.96	0.014215	3.06	8.35	16.95	1.04
Asta 1	2599.896	PF 3	23.51	56.35	57.62	57.73	58.04	0.014091	3.17	9.29	17.67	1.05
Asta 1	2599.896	PF 4	27.61	56.35	57.69	57.78	58.13	0.013898	3.30	10.57	18.57	1.06
Asta 1	2549.943	PF 1	17.73	55.24	55.92	56.17	56.69	0.042667	4.14	4.92	11.94	1.72
Asta 1	2549.943	PF 2	20.59	55.24	55.98	56.23	56.79	0.041219	4.31	5.56	12.59	1.71
Asta 1	2549.943	PF 3	23.51	55.24	56.03	56.30	56.89	0.039828	4.45	6.21	13.21	1.70
Asta 1	2549.943	PF 4	27.61	55.24	56.09	56.37	57.00	0.038264	4.63	7.09	14.02	1.69
Asta 1	2499.955	PF 1	17.73	53.97	54.95	54.99	55.23	0.017979	2.66	7.73	16.86	1.10
Asta 1	2499.955	PF 2	20.59	53.97	55.00	55.04	55.30	0.018908	2.72	8.55	17.88	1.12
Asta 1	2499.955	PF 3	23.51	53.97	55.04	55.12	55.37	0.019796	2.76	9.40	19.13	1.15
Asta 1	2499.955	PF 4	27.61	53.97	55.12	55.20	55.45	0.020953	2.83	11.01	24.32	1.18
Asta 1	2450.391	PF 1	17.73	52.69	53.48	53.64	53.97	0.036638	2.97	5.81	15.75	1.49
Asta 1	2450.391	PF 2	20.59	52.69	53.55	53.73	54.01	0.036604	3.30	7.05	19.58	1.53
Asta 1	2450.391	PF 3	23.51	52.69	53.60	53.77	54.08	0.034714	3.41	7.89	20.26	1.51
Asta 1	2450.391	PF 4	27.61	52.69	53.65	53.82	54.16	0.032052	3.52	9.19	25.51	1.48
Asta 1	2398.921	PF 1	17.73	50.69	51.36	51.52	51.85	0.046056	3.09	5.75	16.05	1.64
Asta 1	2398.921	PF 2	20.59	50.69	51.43	51.57	51.88	0.046599	3.27	7.01	21.48	1.67
Asta 1	2398.921	PF 3	23.51	50.69	51.46	51.61	51.96	0.048899	3.42	7.57	22.09	1.72
Asta 1	2398.921	PF 4	27.61	50.69	51.49	51.66	52.07	0.052005	3.70	8.25	22.81	1.80
Asta 1	2352.297	PF 1	17.73	49.87	50.60	50.62	50.78	0.012084	2.31	10.90	33.73	0.93
Asta 1	2352.297	PF 2	20.59	49.87	50.64	50.65	50.82	0.011892	2.38	12.24	35.05	0.93
Asta 1	2352.297	PF 3	23.51	49.87	50.65	50.65	50.87	0.013896	2.61	12.75	36.33	1.01
Asta 1	2352.297	PF 4	27.61	49.87	50.73	50.76	50.93	0.012046	2.60	15.64	42.08	0.95
Asta 1	2293.773	PF 1	17.73	48.86	49.37	49.46	49.67	0.032218	2.19	7.38	23.25	1.37
Asta 1	2293.773	PF 2	20.59	48.86	49.41	49.50	49.73	0.031768	2.24	8.18	24.96	1.36
Asta 1	2293.773	PF 3	23.51	48.86	49.47	49.54	49.77	0.026529	2.17	9.72	27.01	1.25

HEC-RAS Plan: Plan 02 (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	2293.773	PF 4	27.61	48.86	49.49	49.59	49.85	0.029955	2.35	10.37	27.54	1.33
Asta 1	2246.979	PF 1	17.73	47.09	48.06	48.13	48.32	0.025461	2.74	8.62	33.08	1.17
Asta 1	2246.979	PF 2	20.59	47.09	48.09	48.17	48.36	0.026305	2.83	9.57	34.80	1.20
Asta 1	2246.979	PF 3	23.51	47.09	48.10	48.20	48.43	0.030624	3.08	10.00	35.48	1.29
Asta 1	2246.979	PF 4	27.61	47.09	48.15	48.24	48.47	0.028437	3.09	11.96	38.20	1.26
Asta 1	2208.947	PF 1	17.73	46.43	47.33	47.19	47.40	0.004465	1.31	15.87	40.24	0.52
Asta 1	2208.947	PF 2	20.59	46.43	47.39	47.22	47.46	0.004109	1.33	18.15	41.10	0.51
Asta 1	2208.947	PF 3	23.51	46.43	47.44	47.25	47.51	0.003849	1.35	20.36	41.94	0.50
Asta 1	2208.947	PF 4	27.61	46.43	47.50	47.30	47.58	0.003867	1.42	22.70	42.86	0.51
Asta 1	2163.147	PF 1	17.73	45.76	46.86	46.79	47.04	0.014335	2.13	9.88	20.41	0.74
Asta 1	2163.147	PF 2	20.59	45.76	46.91	46.85	47.11	0.014962	2.26	11.02	25.44	0.76
Asta 1	2163.147	PF 3	23.51	45.76	46.95	46.93	47.17	0.015870	2.39	12.11	29.17	0.79
Asta 1	2163.147	PF 4	27.61	45.76	47.03	47.03	47.25	0.014447	2.41	14.69	35.49	0.76
Asta 1	2127.551	PF 1	17.73	45.91	46.30	46.30	46.45	0.018583	1.21	10.78	34.29	0.84
Asta 1	2127.551	PF 2	20.59	45.91	46.33	46.33	46.49	0.019149	1.35	11.85	34.66	0.87
Asta 1	2127.551	PF 3	23.51	45.91	46.36	46.36	46.54	0.018799	1.46	13.07	35.07	0.88
Asta 1	2127.551	PF 4	27.61	45.91	46.38	46.40	46.60	0.023019	1.68	13.61	35.25	0.98
Asta 1	2100	PF 1	17.73	44.28	45.45	45.19	45.57	0.004714	1.81	12.68	21.16	0.55
Asta 1	2100	PF 2	20.59	44.28	45.51	45.28	45.65	0.005023	1.94	14.00	22.70	0.58
Asta 1	2100	PF 3	23.51	44.28	45.55	45.34	45.71	0.005662	2.11	14.90	23.60	0.62
Asta 1	2100	PF 4	27.61	44.28	45.60	45.43	45.80	0.006481	2.32	16.15	25.22	0.66
Asta 1	2073.411	PF 1	17.73	44.44	45.11	45.11	45.33	0.026311	1.77	8.78	21.42	0.91
Asta 1	2073.411	PF 2	20.59	44.44	45.16	45.16	45.39	0.026215	1.86	9.78	23.94	0.92
Asta 1	2073.411	PF 3	23.51	44.44	45.23	45.23	45.45	0.021971	1.83	11.65	28.59	0.87
Asta 1	2073.411	PF 4	27.61	44.44	45.30	45.30	45.52	0.020032	1.86	13.70	30.97	0.85
Asta 2	1932.672	PF 1	39.13	41.67	41.92	42.45	45.03	0.635454	7.09	5.01	15.96	5.40
Asta 2	1932.672	PF 2	46.31	41.67	41.97	42.50	45.10	0.542864	7.39	5.91	16.73	5.14
Asta 2	1932.672	PF 3	53.61	41.67	42.03	42.55	45.16	0.472403	7.60	6.83	17.48	4.91
Asta 2	1932.672	PF 4	63.52	41.67	42.10	42.62	45.23	0.414072	6.92	8.12	19.42	4.57
Asta 2	1896.41	PF 1	39.13	40.23	41.19	41.22	41.51	0.025141	1.70	16.04	28.23	0.91
Asta 2	1896.41	PF 2	46.31	40.23	41.26	41.32	41.62	0.025675	1.91	18.16	31.96	0.95
Asta 2	1896.41	PF 3	53.61	40.23	41.32	41.40	41.71	0.026248	2.12	20.24	35.07	0.98
Asta 2	1896.41	PF 4	63.52	40.23	41.40	41.53	41.82	0.026773	2.37	23.07	42.61	1.02
Asta 2	1850	PF 1	39.13	37.89	39.62	39.78	40.19	0.029202	3.78	12.64	22.44	1.19
Asta 2	1850	PF 2	46.31	37.89	39.71	39.88	40.30	0.028400	3.93	14.58	23.66	1.19
Asta 2	1850	PF 3	53.61	37.89	39.78	39.98	40.40	0.027597	4.06	16.49	24.86	1.19
Asta 2	1850	PF 4	63.52	37.89	39.88	40.07	40.53	0.026610	4.20	19.13	28.49	1.18
Asta 2	1800	PF 1	39.13	36.07	37.51	37.83	38.48	0.039459	4.74	9.30	15.56	1.71
Asta 2	1800	PF 2	46.31	36.07	37.60	37.94	38.65	0.037520	4.98	10.84	18.80	1.70
Asta 2	1800	PF 3	53.61	36.07	37.68	38.04	38.79	0.036552	5.19	12.32	20.21	1.70
Asta 2	1800	PF 4	63.52	36.07	37.77	38.15	38.95	0.035564	5.45	14.22	21.20	1.71
Asta 2	1750	PF 1	39.13	34.77	36.00	36.21	36.67	0.030445	4.06	12.05	25.43	1.30
Asta 2	1750	PF 2	46.31	34.77	36.05	36.27	36.82	0.032746	4.36	13.40	25.71	1.36
Asta 2	1750	PF 3	53.61	34.77	36.10	36.39	36.95	0.033990	4.59	14.79	25.99	1.40
Asta 2	1750	PF 4	63.52	34.77	36.17	36.48	37.11	0.035322	4.87	16.56	26.35	1.44
Asta 2	1702.468	PF 1	39.13	33.75	35.22	35.31	35.67	0.013719	3.52	14.74	24.34	1.07
Asta 2	1702.468	PF 2	46.31	33.75	35.30	35.40	35.78	0.013411	3.65	16.78	25.12	1.07
Asta 2	1702.468	PF 3	53.61	33.75	35.37	35.47	35.89	0.013317	3.79	18.67	25.83	1.07
Asta 2	1702.468	PF 4	63.52	33.75	35.46	35.57	36.02	0.013264	3.96	21.09	26.68	1.08
Asta 2	1642.113	PF 1	39.13	32.54	34.15	34.29	34.76	0.016366	3.80	12.03	15.73	1.15
Asta 2	1642.113	PF 2	46.31	32.54	34.27	34.38	34.91	0.015247	3.92	13.98	17.02	1.13
Asta 2	1642.113	PF 3	53.61	32.54	34.39	34.43	35.04	0.014291	4.03	16.00	18.33	1.11
Asta 2	1642.113	PF 4	63.52	32.54	34.58	34.69	35.23	0.012574	4.14	20.23	25.02	1.06
Asta 2	1602.575	PF 1	39.13	31.97	33.59	33.80	34.18	0.013441	3.79	13.80	25.15	1.08
Asta 2	1602.575	PF 2	46.31	31.97	33.66	33.88	34.32	0.014589	4.09	15.61	27.75	1.13
Asta 2	1602.575	PF 3	53.61	31.97	33.72	33.95	34.45	0.015754	4.37	17.24	29.59	1.18
Asta 2	1602.575	PF 4	63.52	31.97	33.77	34.04	34.63	0.018025	4.79	18.87	31.41	1.27
Asta 2	1544.648	PF 1	39.13	33.08	32.39	32.58	33.04	0.030955		10.94	17.92	0.00
Asta 2	1544.648	PF 2	46.31	33.08	32.47	32.71	33.17	0.028370		12.55	18.37	0.00
Asta 2	1544.648	PF 3	53.61	33.08	32.58	32.79	33.27	0.026543		14.60	20.47	0.00
Asta 2	1544.648	PF 4	63.52	33.08	32.73	32.89	33.36	0.024034		18.09	25.21	0.00
Asta 2	1499.38	PF 1	39.13	30.18	31.60	31.78	32.15	0.012892	3.72	13.36	19.05	1.06
Asta 2	1499.38	PF 2	46.31	30.18	31.70	31.85	32.31	0.013064	3.95	15.57	23.45	1.08
Asta 2	1499.38	PF 3	53.61	30.18	31.77	31.95	32.43	0.013550	4.16	17.25	24.20	1.11
Asta 2	1499.38	PF 4	63.52	30.18	31.88	32.08	32.57	0.013268	4.32	19.93	25.75	1.11
Asta 2	1454.534	PF 1	39.13	30.83	31.41	31.41	31.62	0.016207	1.95	19.40	46.79	0.99

HEC-RAS Plan: Plan 02 (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	1454.534	PF 2	46.31	30.83	31.46	31.46	31.69	0.015935	2.10	21.84	48.23	1.00
Asta 2	1454.534	PF 3	53.61	30.83	31.50	31.50	31.76	0.016186	2.25	23.97	49.45	1.03
Asta 2	1454.534	PF 4	63.52	30.83	31.59	31.59	31.85	0.015071	2.41	28.29	55.38	1.02
Asta 2	1395.858	PF 1	39.13	29.20	29.88	30.02	30.33	0.030373	2.99	13.78	34.23	1.40
Asta 2	1395.858	PF 2	46.31	29.20	29.94	30.08	30.42	0.030167	3.21	15.66	36.05	1.42
Asta 2	1395.858	PF 3	53.61	29.20	29.99	30.14	30.49	0.029142	3.37	17.68	37.91	1.42
Asta 2	1395.858	PF 4	63.52	29.20	30.05	30.21	30.60	0.030266	3.64	19.76	39.74	1.46
Asta 2	1355.892	PF 1	39.13	28.63	29.49	29.49	29.76	0.013698	2.51	17.21	32.49	0.99
Asta 2	1355.892	PF 2	46.31	28.63	29.56	29.56	29.86	0.013057	2.63	19.79	37.17	0.98
Asta 2	1355.892	PF 3	53.61	28.63	29.64	29.64	29.94	0.012167	2.72	22.94	43.39	0.97
Asta 2	1355.892	PF 4	63.52	28.63	29.76	29.76	30.04	0.010661	2.79	28.69	52.14	0.93
Asta 2	1300	PF 1	39.13	27.78	28.60	28.66	28.92	0.017531	3.03	16.39	34.91	1.14
Asta 2	1300	PF 2	46.31	27.78	28.65	28.72	29.02	0.018401	3.24	18.09	35.71	1.18
Asta 2	1300	PF 3	53.61	27.78	28.69	28.78	29.11	0.019422	3.45	19.60	36.29	1.22
Asta 2	1300	PF 4	63.52	27.78	28.74	28.86	29.23	0.021373	3.75	21.31	37.10	1.30
Asta 2	1255.209	PF 1	39.13	26.78	28.14	28.08	28.32	0.006223	2.38	23.82	42.89	0.72
Asta 2	1255.209	PF 2	46.31	26.78	28.23	28.13	28.40	0.005820	2.42	27.53	44.71	0.71
Asta 2	1255.209	PF 3	53.61	26.78	28.31	28.19	28.49	0.005485	2.46	31.22	46.44	0.70
Asta 2	1255.209	PF 4	63.52	26.78	28.40	28.26	28.60	0.005726	2.63	35.93	53.50	0.72
Asta 2	1201.843	PF 1	39.13	26.37	27.67	27.67	27.95	0.007186	2.61	20.82	39.96	0.78
Asta 2	1201.843	PF 2	46.31	26.37	27.75	27.75	28.05	0.007317	2.75	24.10	42.02	0.80
Asta 2	1201.843	PF 3	53.61	26.37	27.82	27.82	28.13	0.007609	2.91	26.93	43.30	0.82
Asta 2	1201.843	PF 4	63.52	26.37	27.92	27.92	28.24	0.007447	3.03	31.35	45.06	0.82
Asta 2	1147.617	PF 1	39.13	24.50	26.25	26.52	27.14	0.039941	4.53	10.32	19.27	1.37
Asta 2	1147.617	PF 2	46.31	24.50	26.34	26.62	27.23	0.037789	4.62	11.98	20.01	1.34
Asta 2	1147.617	PF 3	53.61	24.50	26.42	26.70	27.32	0.034934	4.66	13.75	20.92	1.31
Asta 2	1147.617	PF 4	63.52	24.50	26.53	26.82	27.45	0.032958	4.76	15.98	22.37	1.29
Asta 2	1123.194	PF 1	39.13	24.72	26.24	26.24	26.58	0.012520	2.91	15.56	23.00	0.98
Asta 2	1123.194	PF 2	46.31	24.72	26.32	26.32	26.69	0.012362	3.06	17.45	23.57	0.98
Asta 2	1123.194	PF 3	53.61	24.72	26.39	26.39	26.81	0.012334	3.21	19.24	24.11	0.99
Asta 2	1123.194	PF 4	63.52	24.72	26.52	26.52	26.95	0.010993	3.27	22.53	30.88	0.96
Asta 2	1102.01	PF 1	39.13	25.02	25.52	25.69	26.10	0.038617	2.74	11.66	25.31	1.48
Asta 2	1102.01	PF 2	46.31	25.02	25.57	25.77	26.21	0.038451	2.91	13.10	27.36	1.50
Asta 2	1102.01	PF 3	53.61	25.02	25.62	25.83	26.32	0.040334	3.14	14.56	28.32	1.56
Asta 2	1102.01	PF 4	63.52	25.02	25.67	25.92	26.48	0.042378	3.38	16.00	28.84	1.61
Asta 2	1078.488	PF 1	39.13	23.17	24.80	25.05	25.45	0.020408	3.87	12.62	24.56	1.17
Asta 2	1078.488	PF 2	46.31	23.17	24.89	25.17	25.58	0.020135	4.06	15.22	31.11	1.17
Asta 2	1078.488	PF 3	53.61	23.17	24.96	25.22	25.68	0.020266	4.21	17.33	32.44	1.19
Asta 2	1078.488	PF 4	63.52	23.17	25.04	25.23	25.80	0.020727	4.44	20.21	37.26	1.21
Asta 2	1049.803	PF 1	39.13	22.21	25.03	24.60	25.20	0.002545	2.12	26.24	33.84	0.46
Asta 2	1049.803	PF 2	46.31	22.21	25.06	24.77	25.29	0.003247	2.43	27.53	37.29	0.52
Asta 2	1049.803	PF 3	53.61	22.21	25.10	24.86	25.37	0.003991	2.72	28.82	40.60	0.58
Asta 2	1049.803	PF 4	63.52	22.21	25.13	24.98	25.49	0.005124	3.11	30.40	42.95	0.65
Asta 2	1031.857	PF 1	39.13	23.86	24.93	24.93	25.12	0.010054	2.54	23.64	55.92	0.82
Asta 2	1031.857	PF 2	46.31	23.86	24.98	24.98	25.19	0.010520	2.68	26.41	58.14	0.85
Asta 2	1031.857	PF 3	53.61	23.86	25.01	25.01	25.25	0.011794	2.89	28.20	59.49	0.90
Asta 2	1031.857	PF 4	63.52	23.86	25.10	25.10	25.33	0.010578	2.89	33.61	65.77	0.86
Asta 2	1012.65	PF 1	39.13	21.93	23.93	24.29	24.73	0.035429	4.37	10.68	17.47	1.40
Asta 2	1012.65	PF 2	46.31	21.93	24.09	24.35	24.81	0.029575	4.40	14.56	32.96	1.31
Asta 2	1012.65	PF 3	53.61	21.93	24.15	24.40	24.87	0.028004	4.45	16.95	37.28	1.29
Asta 2	1012.65	PF 4	63.52	21.93	24.25	24.48	24.97	0.027003	4.59	20.77	44.07	1.28
Asta 2	979.4611	PF 1	39.13	22.97	23.70	23.66	23.85	0.014384	2.20	23.18	56.84	0.88
Asta 2	979.4611	PF 2	46.31	22.97	23.75	23.71	23.92	0.013850	2.28	26.35	59.04	0.88
Asta 2	979.4611	PF 3	53.61	22.97	23.77	23.75	23.98	0.016688	2.54	27.33	59.68	0.97
Asta 2	979.4611	PF 4	63.52	22.97	23.82	23.81	24.06	0.016774	2.68	30.68	62.10	0.99
Asta 2	939.4351	PF 1	39.13	22.49	23.01	23.01	23.22	0.020391	2.20	19.56	48.31	1.01
Asta 2	939.4351	PF 2	46.31	22.49	23.06	23.06	23.30	0.020885	2.36	21.80	51.22	1.04
Asta 2	939.4351	PF 3	53.61	22.49	23.14	23.14	23.36	0.016687	2.32	26.40	62.92	0.95
Asta 2	939.4351	PF 4	63.52	22.49	23.21	23.21	23.44	0.016879	2.51	31.05	68.33	0.97
Asta 2	918.9291	PF 1	39.13	22.22	22.47	22.54	22.75	0.026176	1.05	17.46	49.44	0.92
Asta 2	918.9291	PF 2	46.31	22.22	22.52	22.59	22.82	0.025935	1.13	19.93	52.06	0.93
Asta 2	918.9291	PF 3	53.61	22.22	22.54	22.64	22.90	0.030376	1.26	20.98	53.18	1.02
Asta 2	918.9291	PF 4	63.52	22.22	22.59	22.70	22.98	0.029078	1.51	24.20	56.71	1.05
Asta 2	901.2863	PF 1	39.13	21.51	22.06	22.09	22.33	0.022329	2.01	17.64	41.05	1.02
Asta 2	901.2863	PF 2	46.31	21.51	22.12	22.15	22.40	0.021530	2.17	20.17	43.13	1.03
Asta 2	901.2863	PF 3	53.61	21.51	22.20	22.20	22.48	0.018948	2.24	23.41	45.68	0.99
Asta 2	901.2863	PF 4	63.52	21.51	22.29	22.29	22.57	0.017115	2.38	28.08	52.36	0.96

HEC-RAS Plan: Plan 02 (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	870.4627	PF 1	39.13	21.00	21.64	21.60	21.83	0.014859	2.06	20.54	43.13	0.88
Asta 2	870.4627	PF 2	46.31	21.00	21.69	21.66	21.91	0.014968	2.21	23.02	44.71	0.90
Asta 2	870.4627	PF 3	53.61	21.00	21.75	21.71	21.99	0.015036	2.35	25.68	48.87	0.92
Asta 2	870.4627	PF 4	63.52	21.00	21.82	21.80	22.08	0.014961	2.49	28.89	50.15	0.93
Asta 2	833.6752	PF 1	39.13	20.25	21.17		21.34	0.010870	2.20	23.33	50.45	0.79
Asta 2	833.6752	PF 2	46.31	20.25	21.23	21.17	21.41	0.010903	2.31	26.35	53.42	0.80
Asta 2	833.6752	PF 3	53.61	20.25	21.28	21.24	21.48	0.011430	2.44	28.68	54.28	0.83
Asta 2	833.6752	PF 4	63.52	20.25	21.33	21.30	21.56	0.011822	2.59	31.84	55.43	0.85
Asta 2	781.4929	PF 1	39.13	19.26	20.40	20.40	20.61	0.020077	2.40	19.62	47.37	1.01
Asta 2	781.4929	PF 2	46.31	19.26	20.45	20.45	20.68	0.019979	2.53	22.08	50.73	1.02
Asta 2	781.4929	PF 3	53.61	19.26	20.51	20.51	20.75	0.018667	2.59	25.03	52.64	1.00
Asta 2	781.4929	PF 4	63.52	19.26	20.57	20.57	20.84	0.017927	2.70	28.53	54.74	0.99
Asta 2	722.1672	PF 1	39.13	18.52	19.47	19.53	19.69	0.013288	2.37	22.69	79.86	0.87
Asta 2	722.1672	PF 2	46.31	18.52	19.51	19.57	19.75	0.013922	2.51	26.28	87.17	0.90
Asta 2	722.1672	PF 3	53.61	18.52	19.54	19.61	19.80	0.014902	2.67	29.24	89.64	0.94
Asta 2	722.1672	PF 4	63.52	18.52	19.58	19.65	19.86	0.016083	2.86	32.68	91.04	0.98
Asta 2	653.4905	PF 1	39.13	17.48	18.81	18.77	18.90	0.009622	2.03	33.07	108.22	0.73
Asta 2	653.4905	PF 2	46.31	17.48	18.84	18.79	18.94	0.010112	2.14	36.97	121.47	0.76
Asta 2	653.4905	PF 3	53.61	17.48	18.88	18.83	18.98	0.009662	2.16	41.57	124.70	0.74
Asta 2	653.4905	PF 4	63.52	17.48	18.91	18.87	19.03	0.010088	2.27	46.32	132.75	0.77
Asta 2	599.7112	PF 1	39.13	17.79	18.07	18.07	18.16	0.021942	1.35	29.33	157.89	0.96
Asta 2	599.7112	PF 2	46.31	17.79	18.09	18.09	18.19	0.021133	1.43	33.16	159.91	0.96
Asta 2	599.7112	PF 3	53.61	17.79	18.10	18.10	18.22	0.023025	1.55	35.42	160.65	1.01
Asta 2	599.7112	PF 4	63.52	17.79	18.13	18.13	18.26	0.022343	1.65	40.12	164.85	1.01
Asta 2	550.0848	PF 1	39.13	16.96	16.73	16.54	16.80	0.006600		31.64	70.25	0.00
Asta 2	550.0848	PF 2	46.31	16.96	16.78	16.59	16.86	0.006952		35.82	85.13	0.00
Asta 2	550.0848	PF 3	53.61	16.96	16.83	16.63	16.92	0.007419		40.81	97.94	0.00
Asta 2	550.0848	PF 4	63.52	16.96	16.89	16.70	16.98	0.007562		46.20	108.18	0.00
Asta 2	500.7512	PF 1	39.13	16.25	16.41		16.47	0.006838	0.45	36.34	109.25	0.45
Asta 2	500.7512	PF 2	46.31	16.25	16.46		16.52	0.006950	0.53	41.19	114.48	0.47
Asta 2	500.7512	PF 3	53.61	16.25	16.50		16.57	0.006895	0.61	46.17	119.13	0.49
Asta 2	500.7512	PF 4	63.52	16.25	16.55		16.63	0.006820	0.71	52.86	125.78	0.50
Asta 2	450	PF 1	39.13	14.74	15.90	15.87	16.02	0.012170	2.08	28.83	93.37	0.80
Asta 2	450	PF 2	46.31	14.74	15.94		16.06	0.012037	2.14	32.66	98.26	0.81
Asta 2	450	PF 3	53.61	14.74	15.98	15.95	16.11	0.012305	2.23	35.84	103.65	0.82
Asta 2	450	PF 4	63.52	14.74	16.02	15.98	16.16	0.012551	2.33	40.28	119.23	0.84
Asta 2	400	PF 1	39.13	14.29	15.38	15.33	15.45	0.009881	1.70	34.45	117.57	0.70
Asta 2	400	PF 2	46.31	14.29	15.41	15.36	15.49	0.010398	1.80	37.95	120.51	0.72
Asta 2	400	PF 3	53.61	14.29	15.44	15.38	15.53	0.010186	1.84	42.30	133.10	0.72
Asta 2	400	PF 4	63.52	14.29	15.49	15.41	15.59	0.009970	1.91	48.80	149.41	0.72
Asta 2	348.6802	PF 1	39.13	13.96	14.73	14.69	14.84	0.013695	1.94	27.00	78.50	0.83
Asta 2	348.6802	PF 2	46.31	13.96	14.79		14.90	0.012175	1.71	31.80	83.04	0.77
Asta 2	348.6802	PF 3	53.61	13.96	14.84		14.95	0.011853	1.79	35.56	86.96	0.77
Asta 2	348.6802	PF 4	63.52	13.96	14.89		15.02	0.011544	1.88	40.13	89.73	0.78
Asta 2	300	PF 1	39.13	13.16	14.24		14.33	0.008126	1.64	29.47	73.62	0.66
Asta 2	300	PF 2	46.31	13.16	14.30		14.40	0.008690	1.81	34.16	79.23	0.69
Asta 2	300	PF 3	53.61	13.16	14.34		14.45	0.008992	1.91	37.37	83.41	0.71
Asta 2	300	PF 4	63.52	13.16	14.39		14.52	0.009233	2.02	41.62	87.81	0.73
Asta 2	258.9499	PF 1	39.13	12.73	13.75	13.72	13.88	0.015319	1.92	24.63	67.80	0.86
Asta 2	258.9499	PF 2	46.31	12.73	13.80	13.76	13.94	0.014502	1.92	28.28	71.04	0.84
Asta 2	258.9499	PF 3	53.61	12.73	13.86		14.00	0.013482	1.90	32.15	74.19	0.82
Asta 2	258.9499	PF 4	63.52	12.73	13.92		14.07	0.012585	1.89	37.18	78.35	0.80
Asta 2	212.1705	PF 1	39.13	12.49	13.06	13.01	13.20	0.013850	1.53	23.52	58.36	0.80
Asta 2	212.1705	PF 2	46.31	12.49	13.10	13.06	13.27	0.014381	1.67	26.01	59.38	0.83
Asta 2	212.1705	PF 3	53.61	12.49	13.13	13.10	13.33	0.015412	1.83	28.06	60.76	0.87
Asta 2	212.1705	PF 4	63.52	12.49	13.18	13.15	13.41	0.016025	2.00	31.29	65.72	0.90
Asta 2	163.6459	PF 1	39.13	11.51	12.20	12.20	12.40	0.020012	2.37	20.52	56.85	1.02
Asta 2	163.6459	PF 2	46.31	11.51	12.25	12.25	12.46	0.018992	2.45	23.66	63.12	1.01
Asta 2	163.6459	PF 3	53.61	11.51	12.31	12.31	12.52	0.017672	2.50	27.08	66.18	0.99
Asta 2	163.6459	PF 4	63.52	11.51	12.36	12.36	12.60	0.017242	2.61	30.91	69.24	0.99
Asta 2	114.792	PF 1	39.13	10.80	11.65	11.56	11.75	0.008139	1.82	30.25	74.02	0.68
Asta 2	114.792	PF 2	46.31	10.80	11.70	11.60	11.80	0.007963	1.88	33.98	74.82	0.68
Asta 2	114.792	PF 3	53.61	10.80	11.75	11.64	11.86	0.007786	1.93	37.61	75.60	0.68
Asta 2	114.792	PF 4	63.52	10.80	11.80	11.69	11.93	0.007830	2.03	41.91	79.62	0.69
Asta 2	73.29565	PF 1	39.13	10.84	11.03	11.03	11.21	0.024137	0.49	22.35	62.84	0.37
Asta 2	73.29565	PF 2	46.31	10.84	11.07	11.07	11.27	0.024397	0.56	24.85	63.13	0.39

HEC-RAS Plan: Plan 02 (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	73.29565	PF 3	53.61	10.84	11.11	11.11	11.33	0.024958	0.63	27.11	63.44	0.40
Asta 2	73.29565	PF 4	63.52	10.84	11.17	11.17	11.40	0.023449	0.70	30.85	64.02	0.40

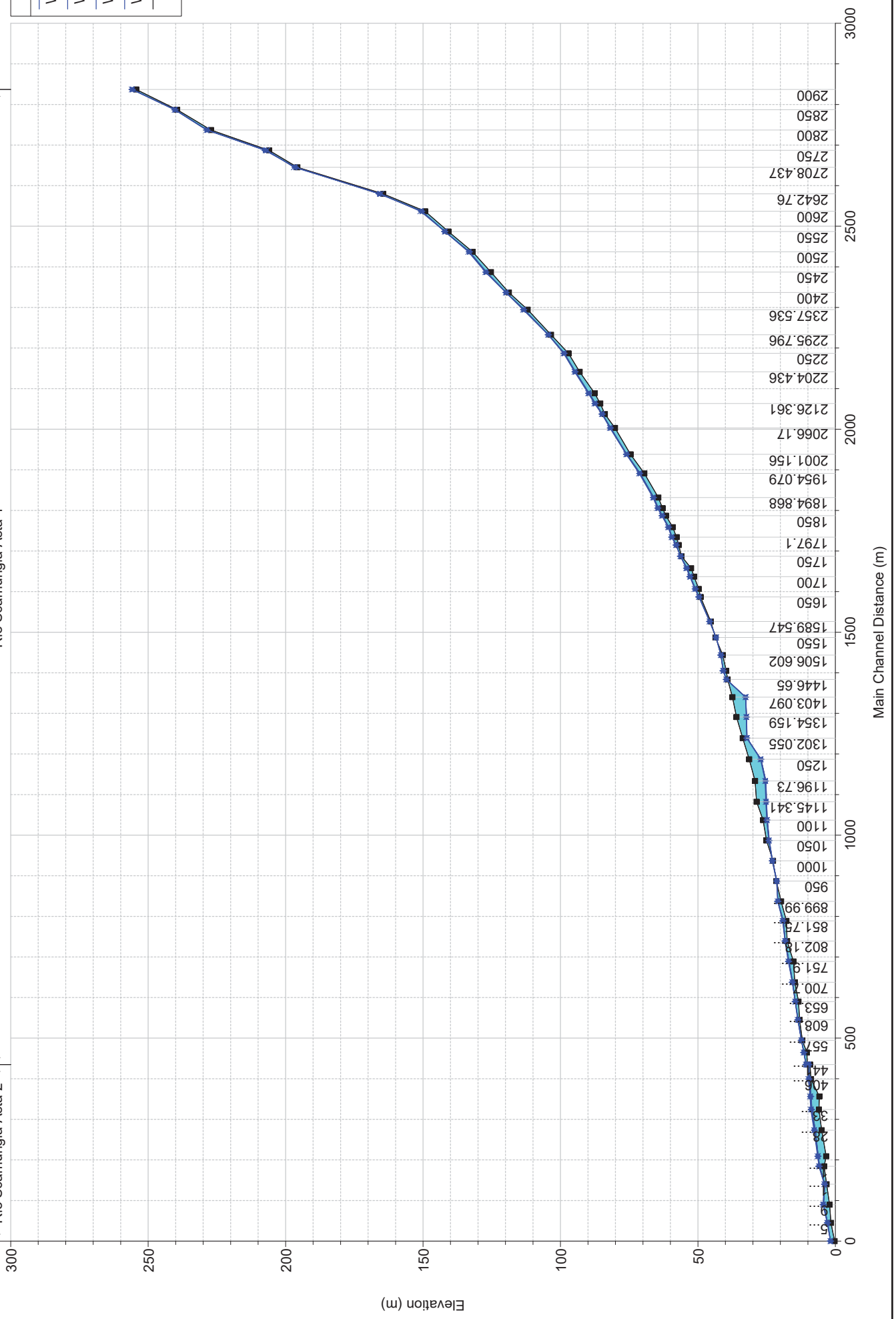
scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Scamungia Asta 1

Rio Scamungia Asta 2

Legend	
WS PF 1	▲
WS PF 2	▲
WS PF 3	▲
WS PF 4	×
Ground	■

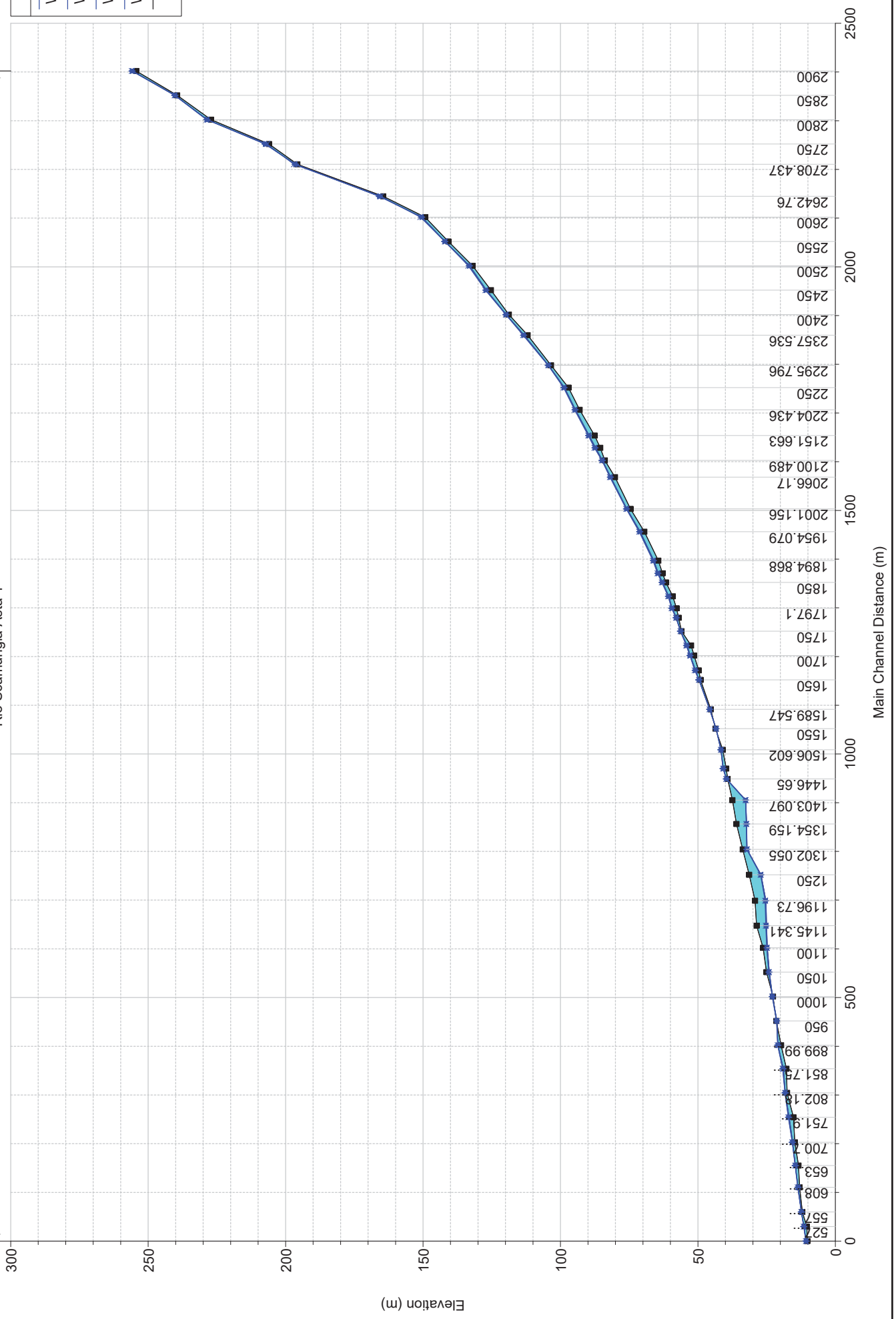


scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Scamungia Asta 1

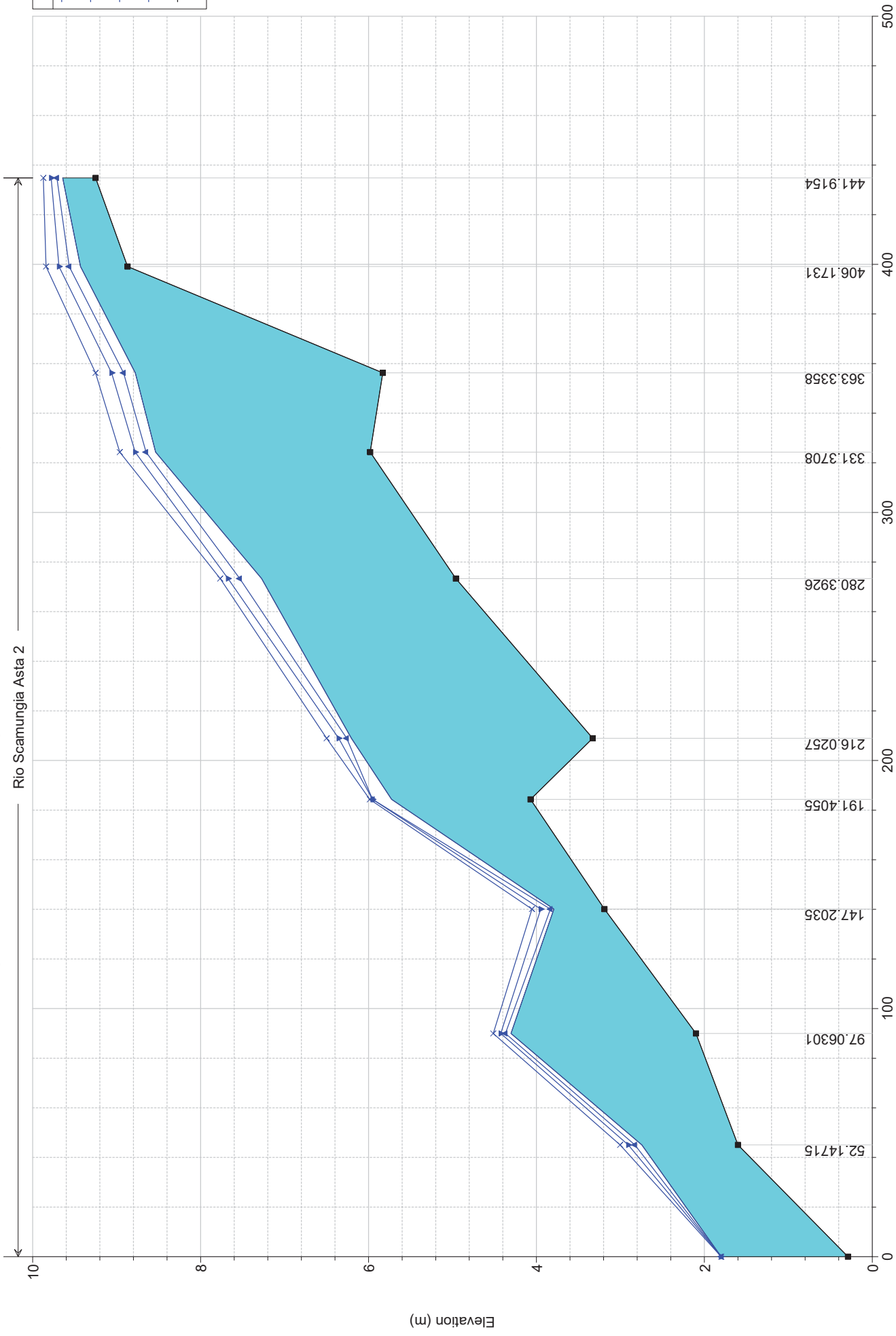
Legend	
WS PF 4	✕
WS PF 3	▶
WS PF 2	▲
WS PF 1	■
Ground	■



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA
Rio Scamungia Asta 2

Legend	
WS PF 1	—
WS PF 2	—
WS PF 3	—
WS PF 4	—
Ground	■



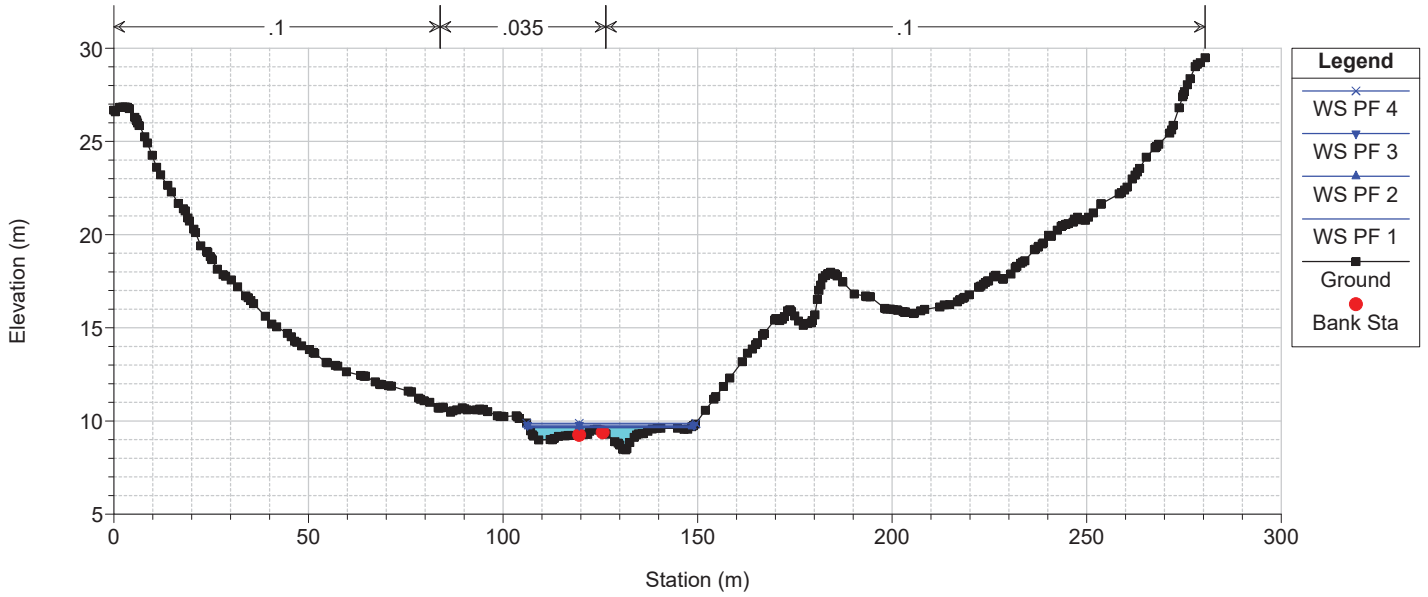
Main Channel Distance (m)

Elevation (m)

scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

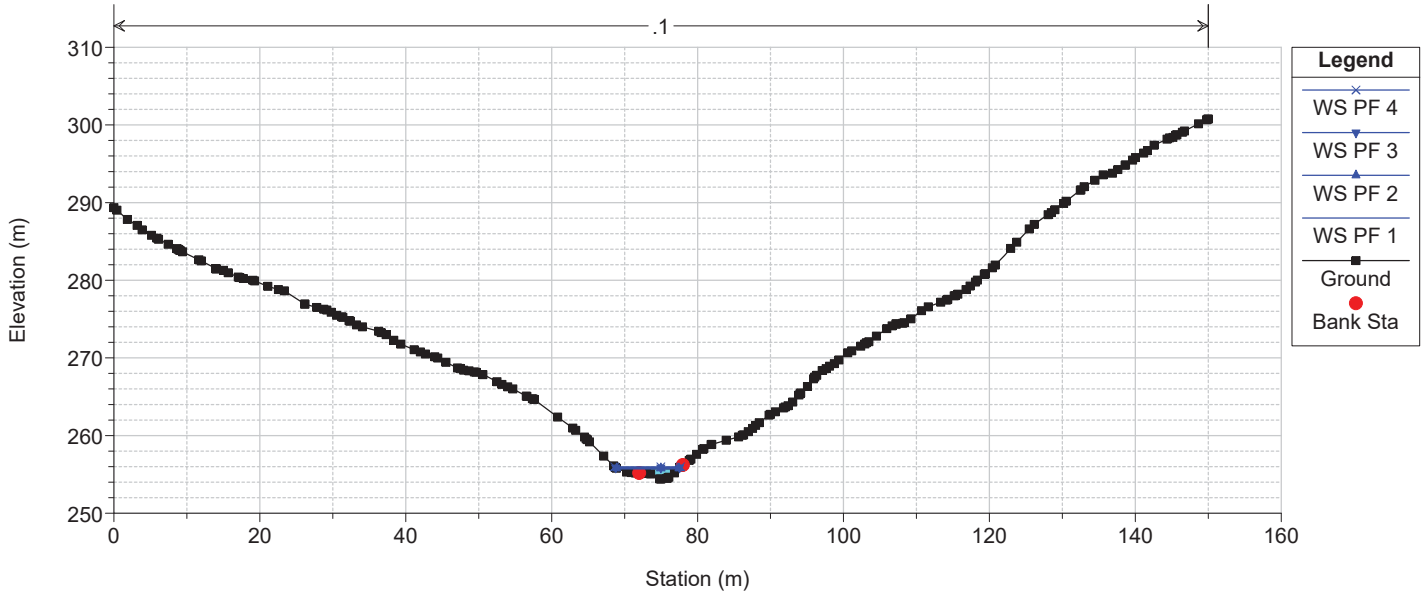
River = Rio Scamungia Reach = Asta 2 RS = 441.9154 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

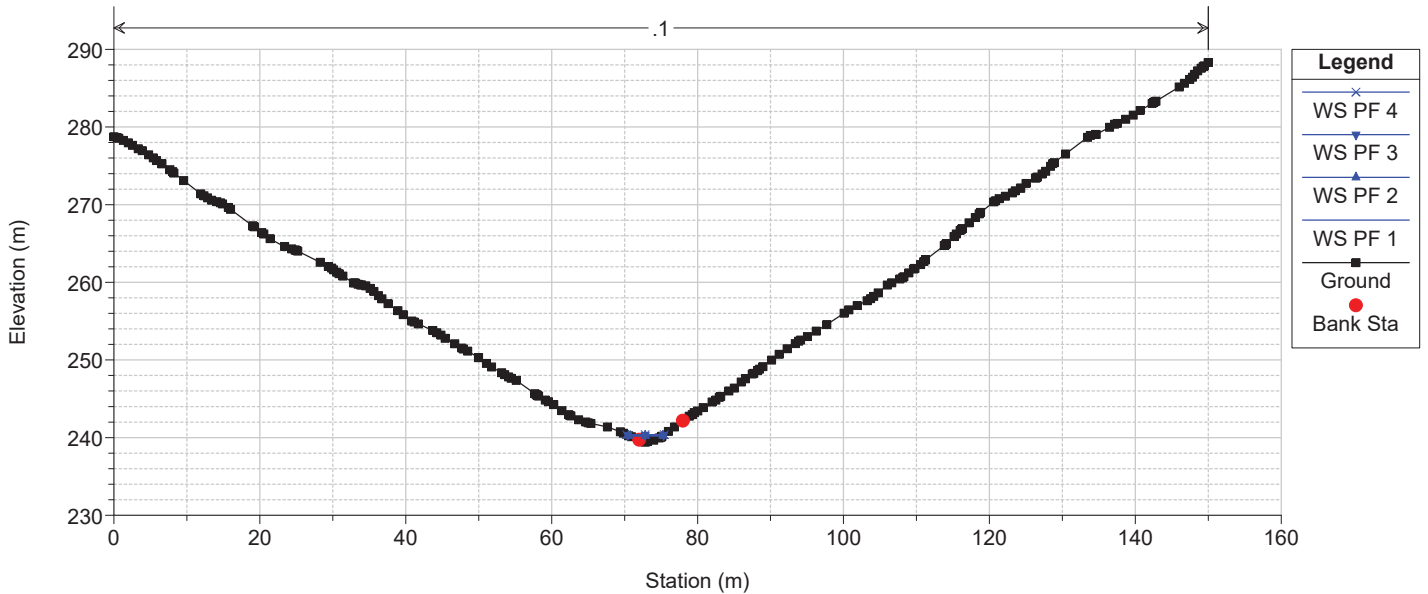
River = Rio Scamungia Reach = Asta 1 RS = 2900 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

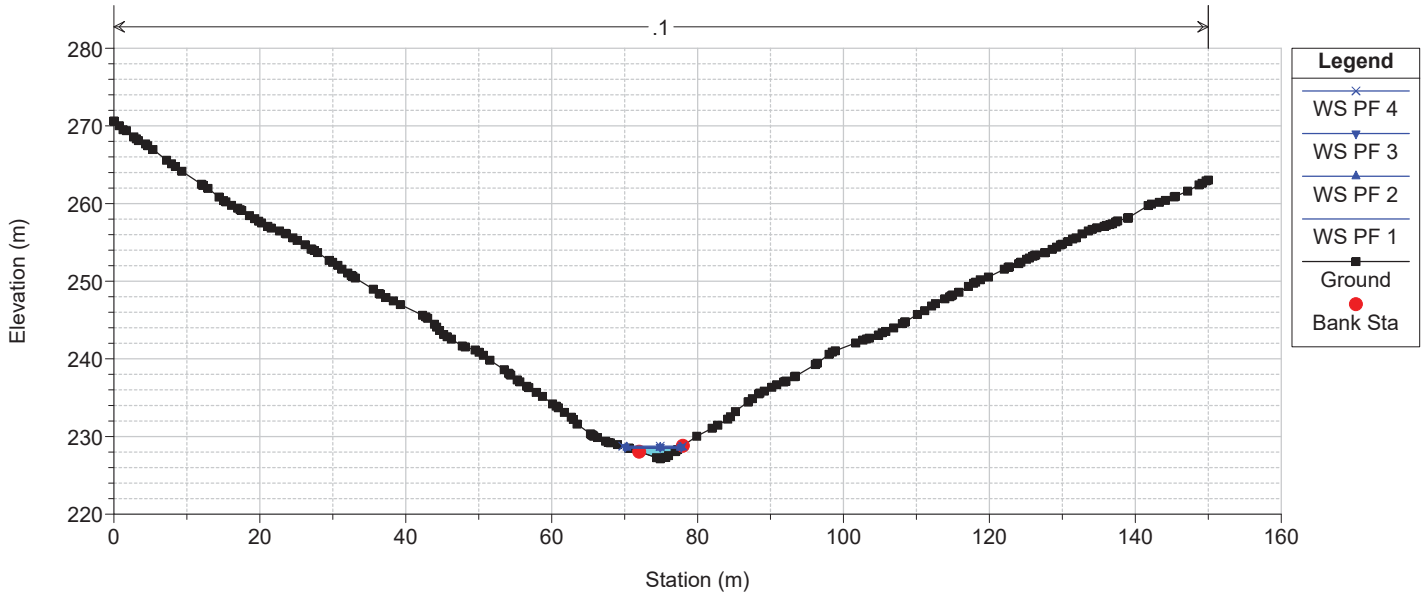
River = Rio Scamungia Reach = Asta 1 RS = 2850 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

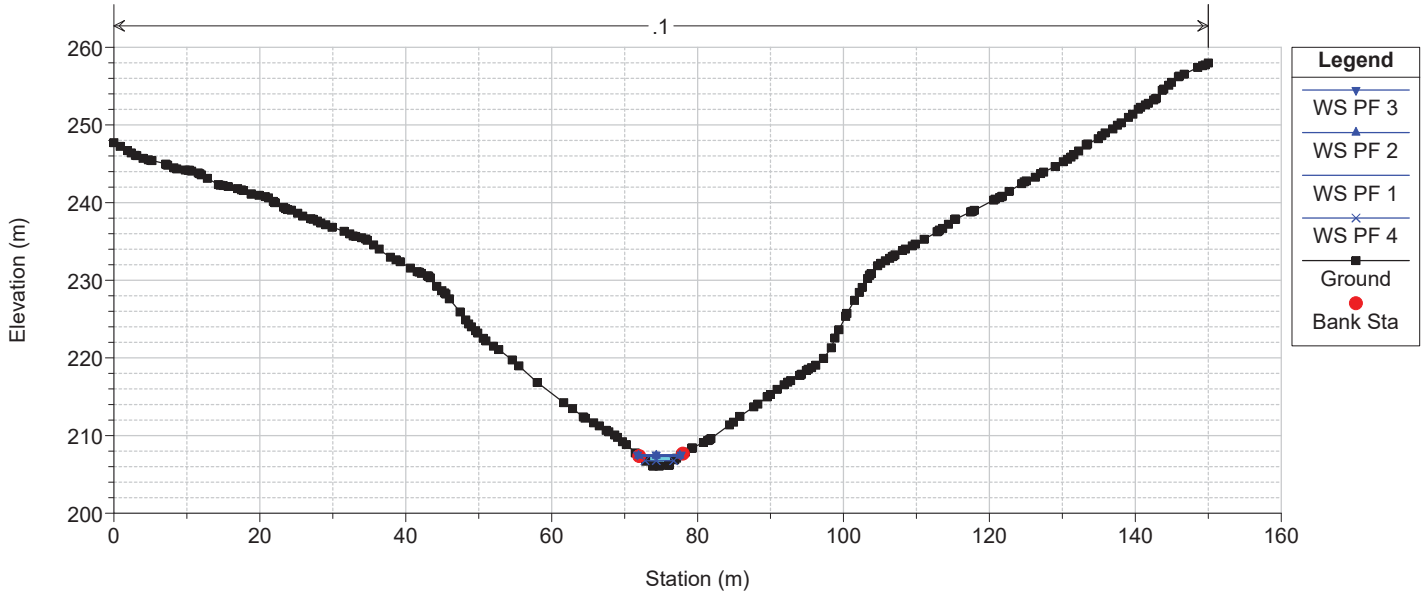
River = Rio Scamungia Reach = Asta 1 RS = 2800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

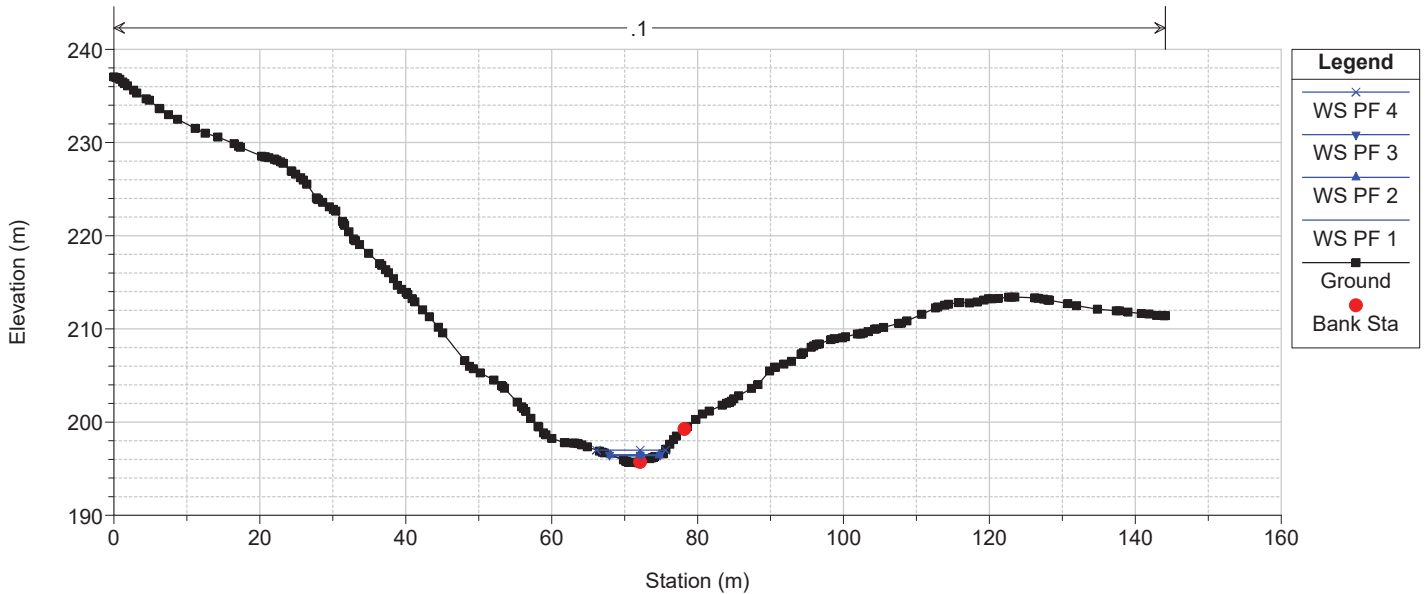
River = Rio Scamungia Reach = Asta 1 RS = 2750 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

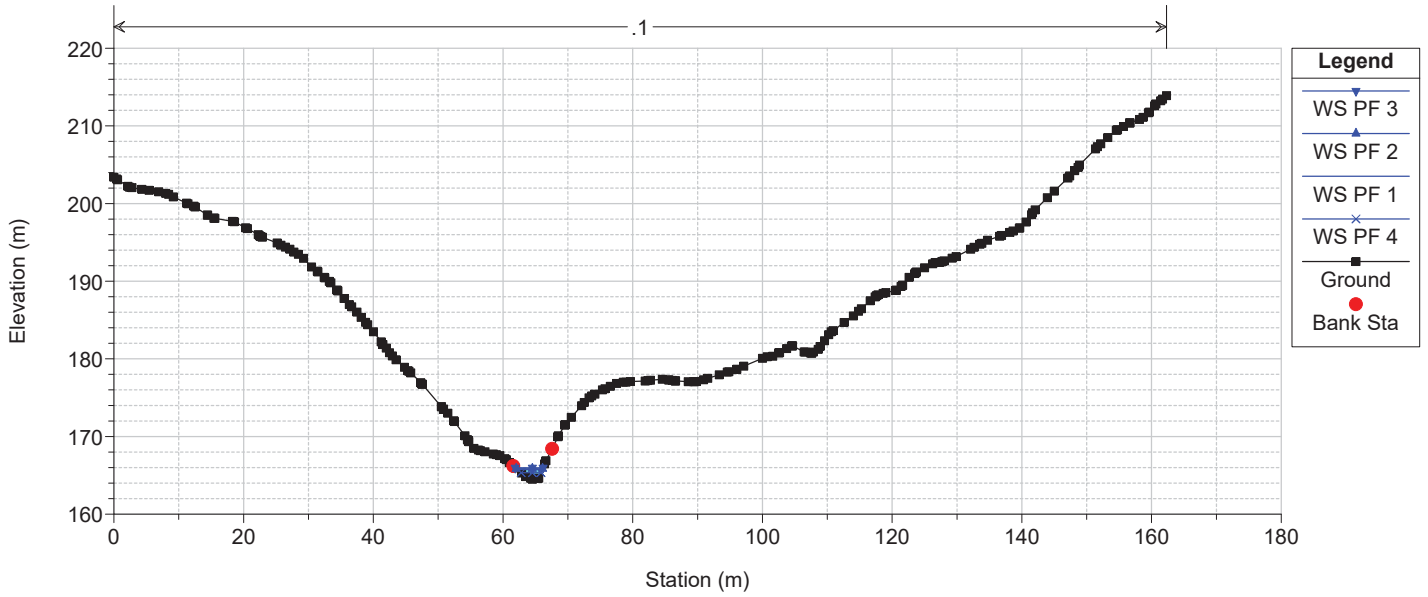
River = Rio Scamungia Reach = Asta 1 RS = 2708.437 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

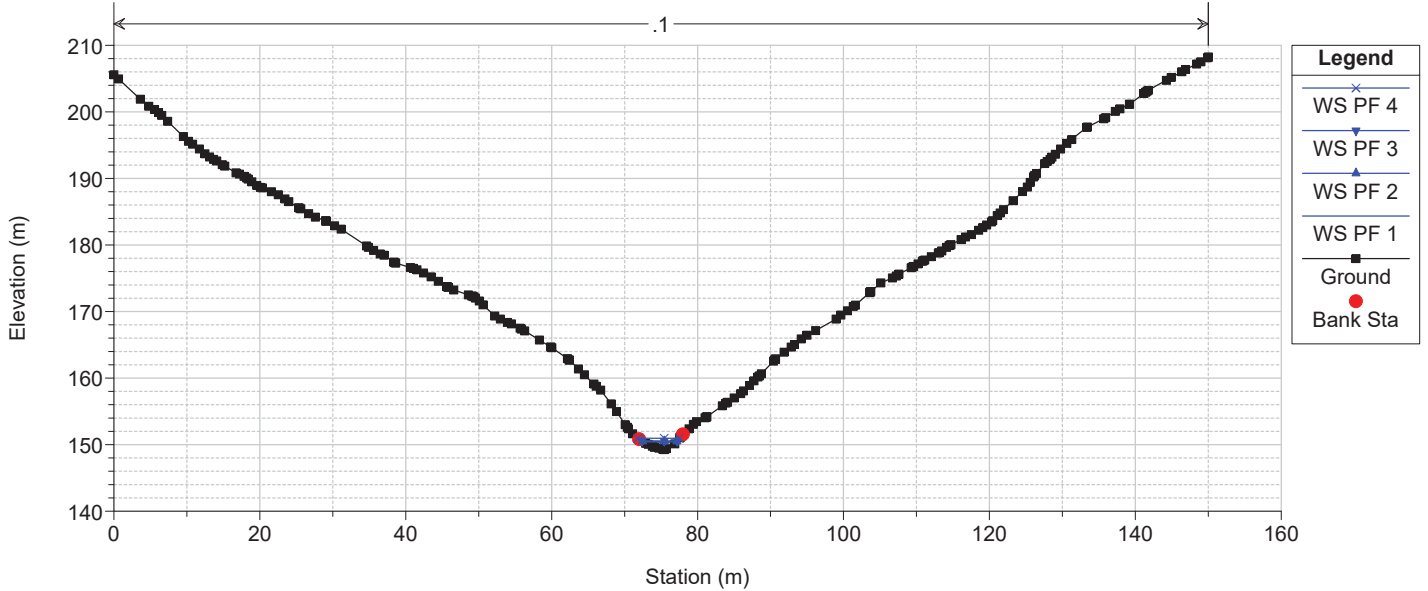
River = Rio Scamungia Reach = Asta 1 RS = 2642.76 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

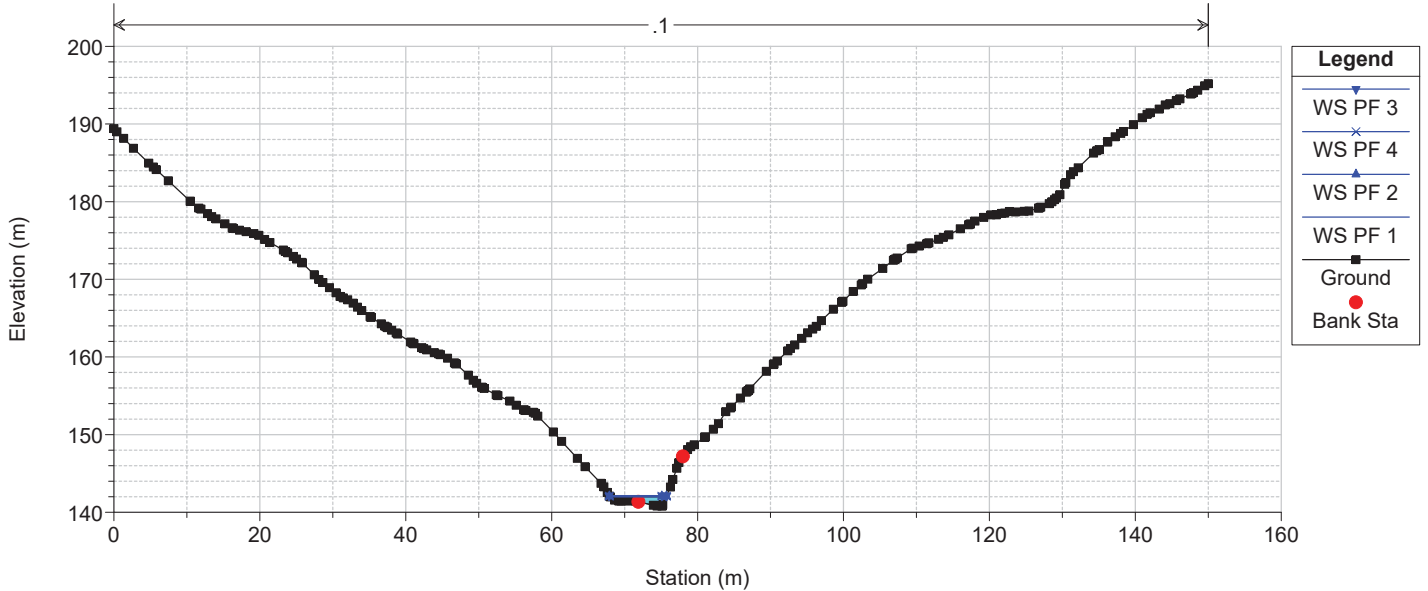
River = Rio Scamungia Reach = Asta 1 RS = 2600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

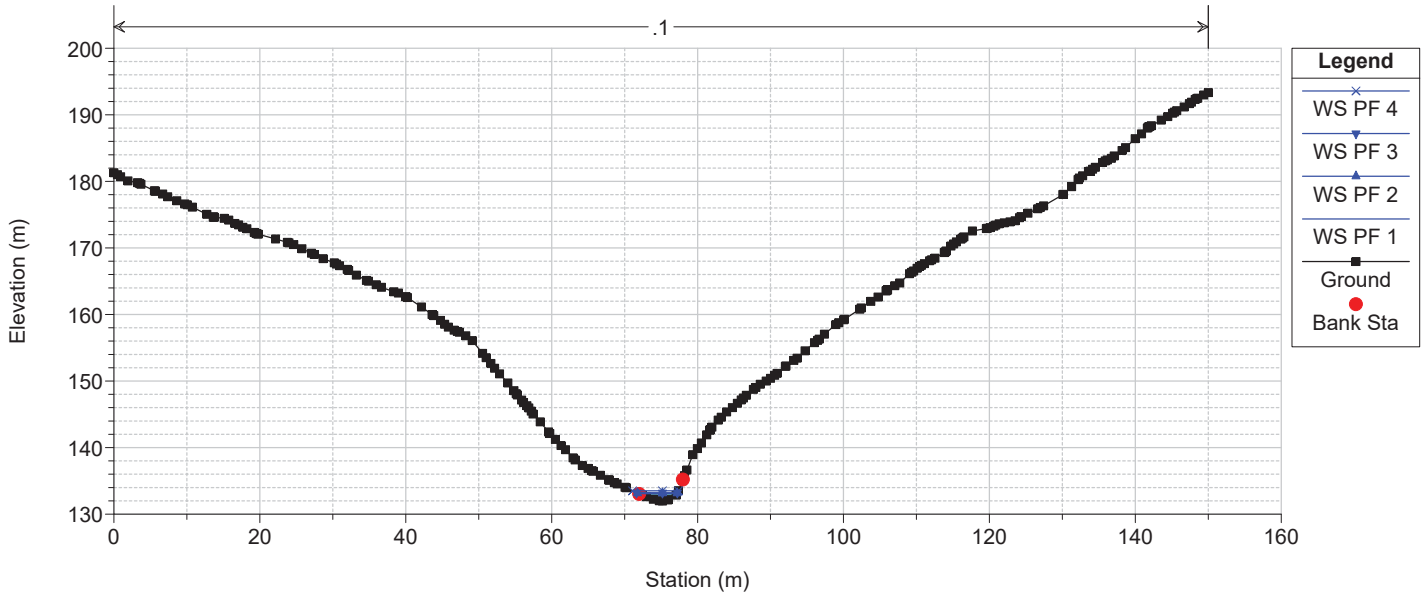
River = Rio Scamungia Reach = Asta 1 RS = 2550 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

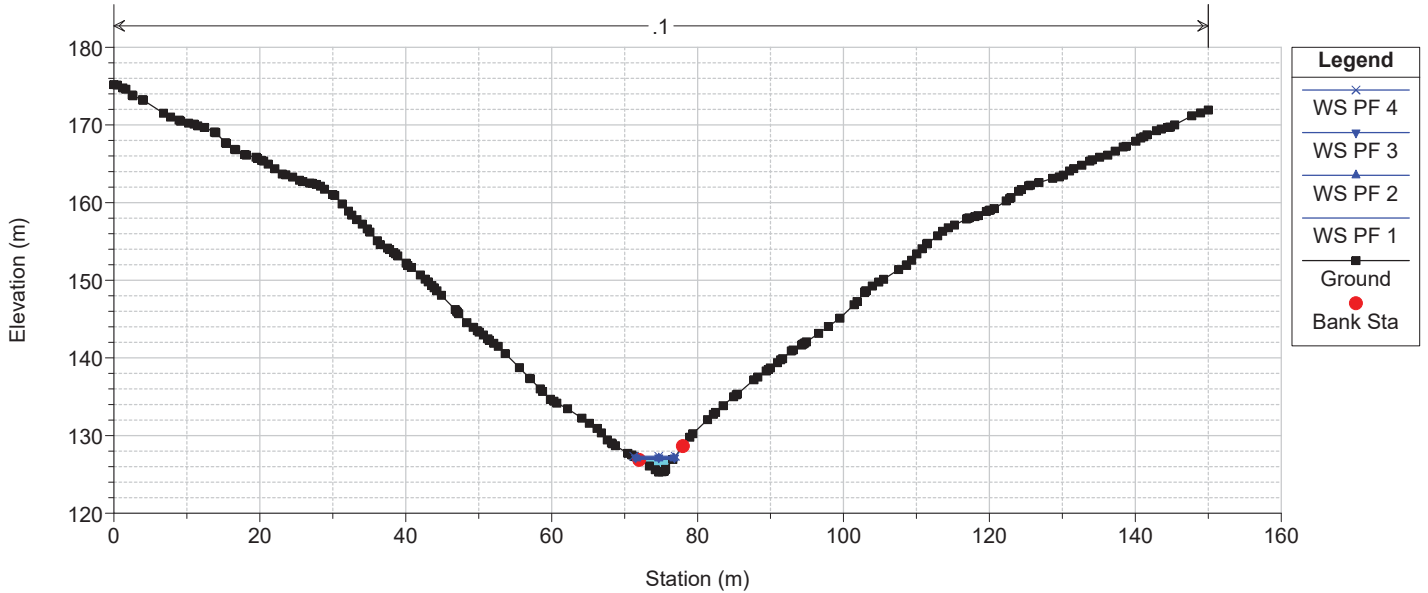
River = Rio Scamungia Reach = Asta 1 RS = 2500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

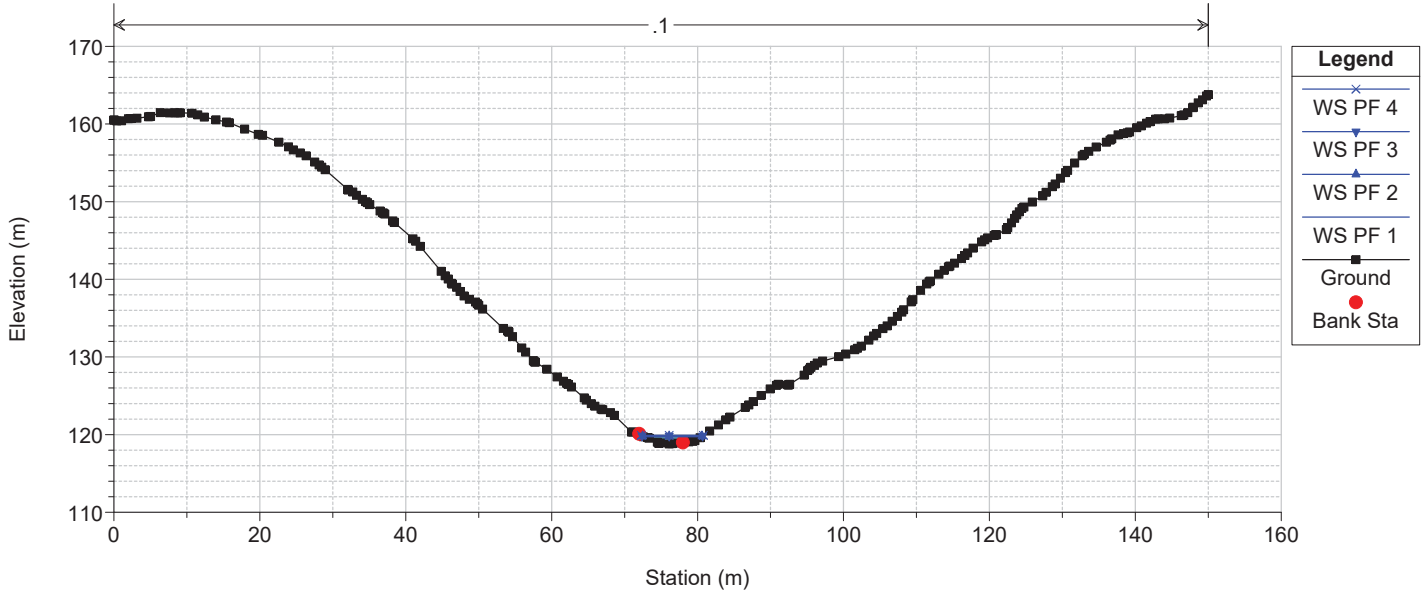
River = Rio Scamungia Reach = Asta 1 RS = 2450 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

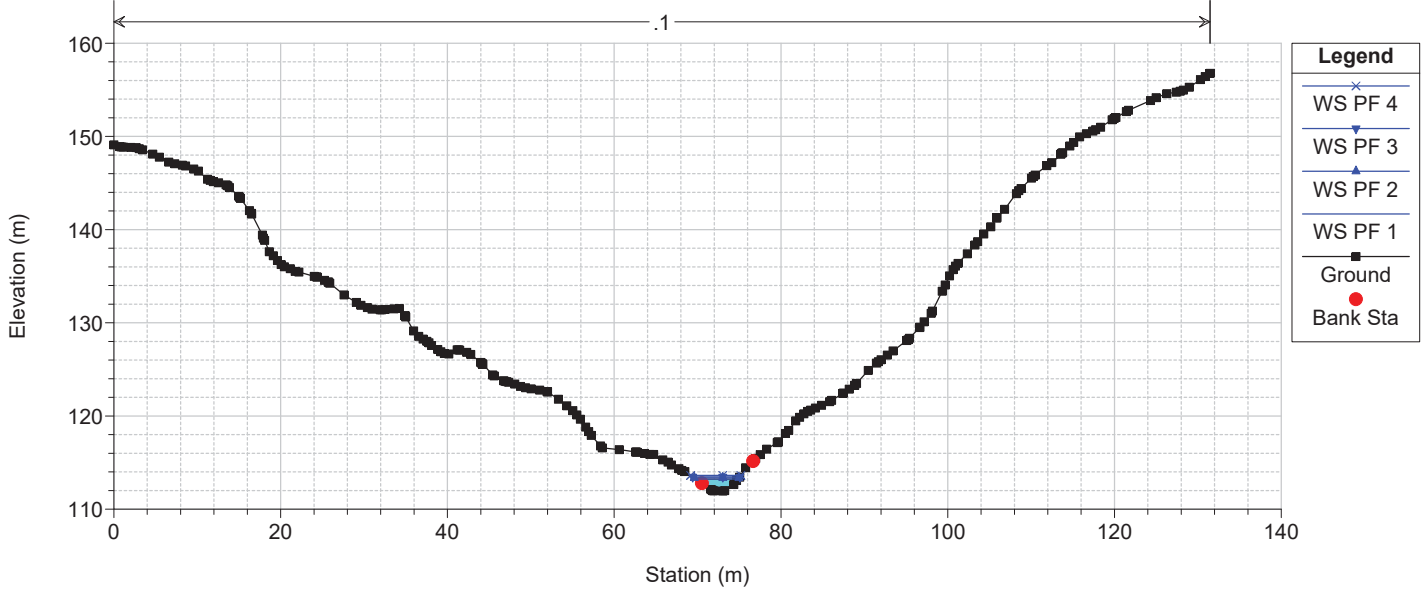
River = Rio Scamungia Reach = Asta 1 RS = 2400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

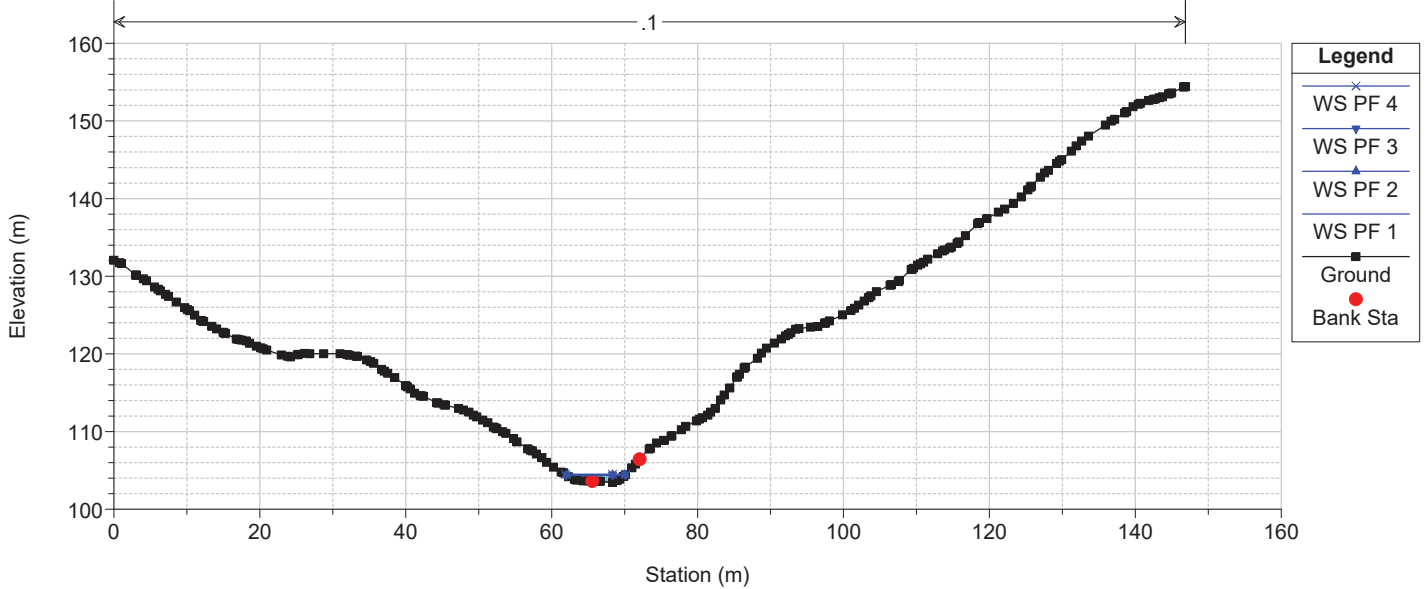
River = Rio Scamungia Reach = Asta 1 RS = 2357.536 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

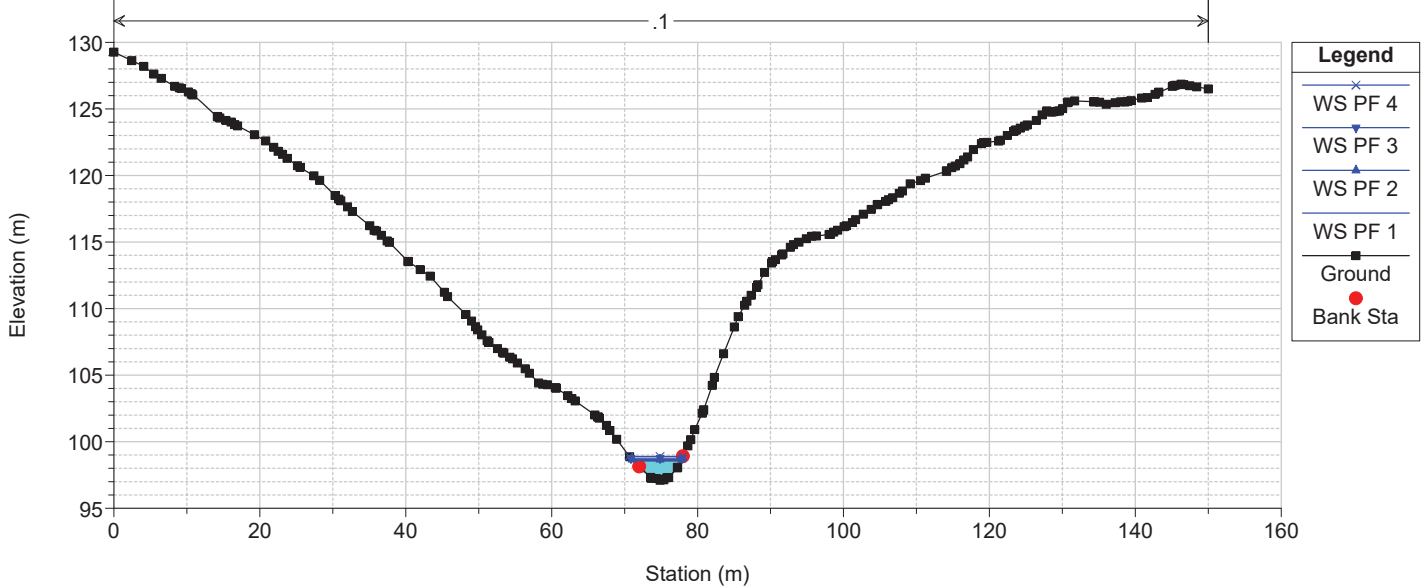
River = Rio Scamungia Reach = Asta 1 RS = 2295.796 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

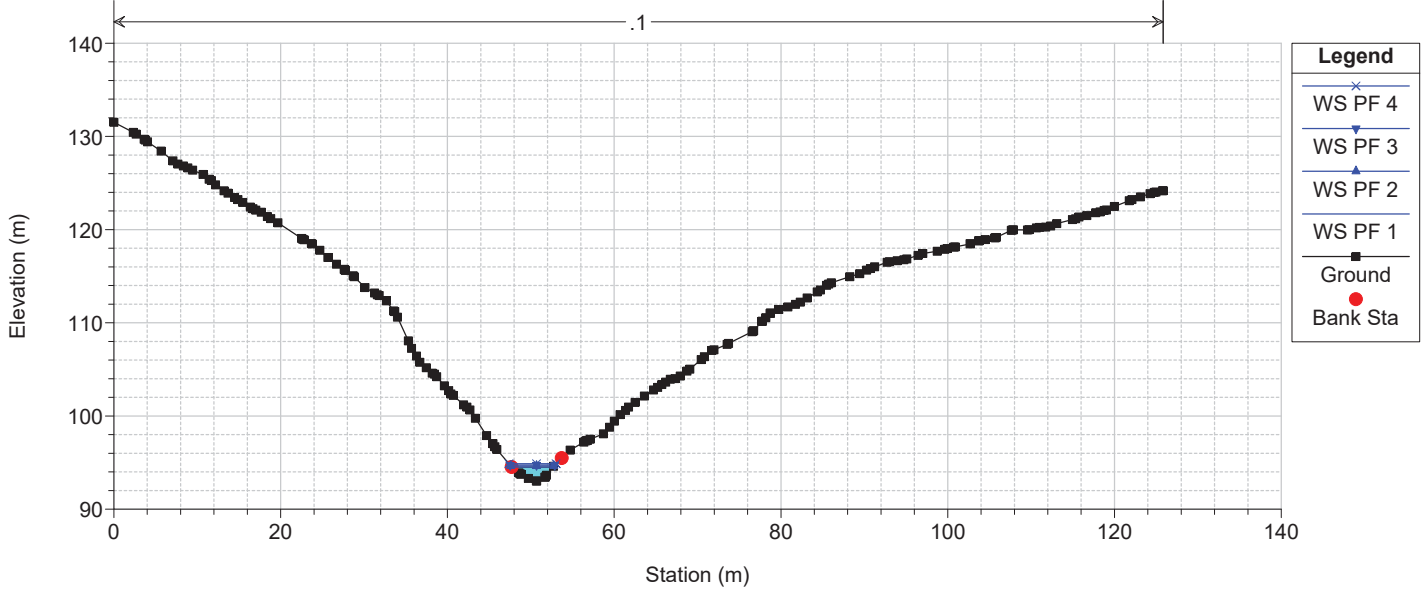
River = Rio Scamungia Reach = Asta 1 RS = 2250 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

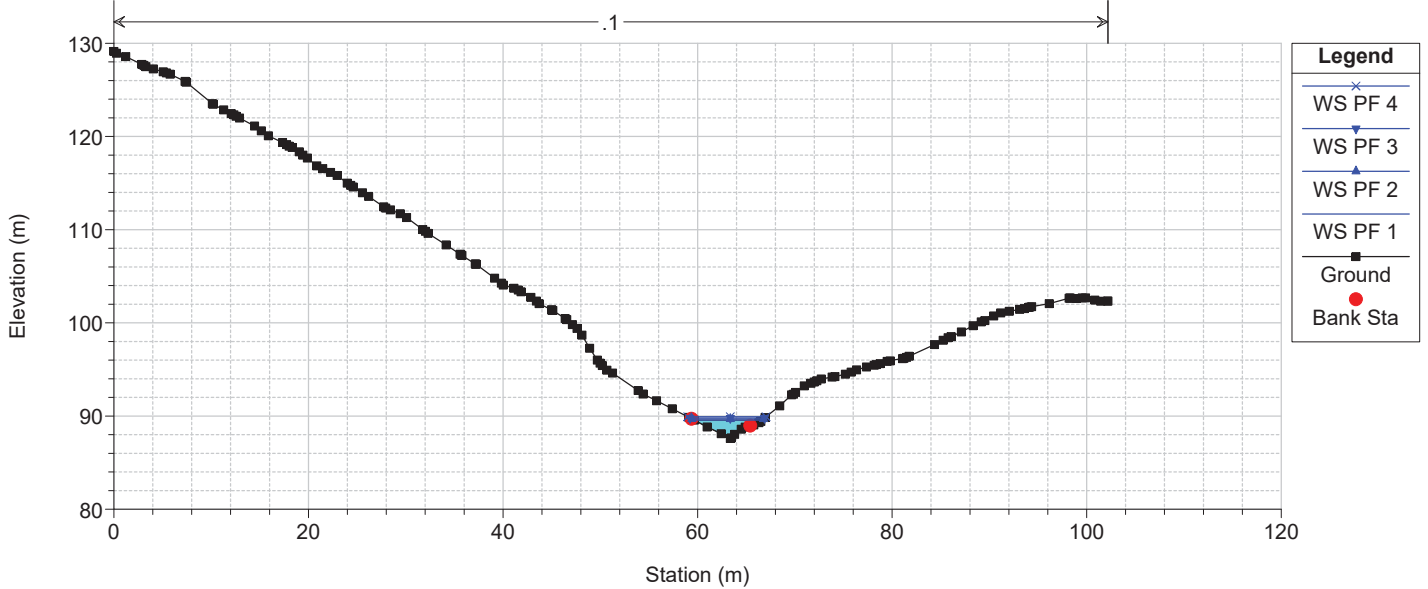
River = Rio Scamungia Reach = Asta 1 RS = 2204.436 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

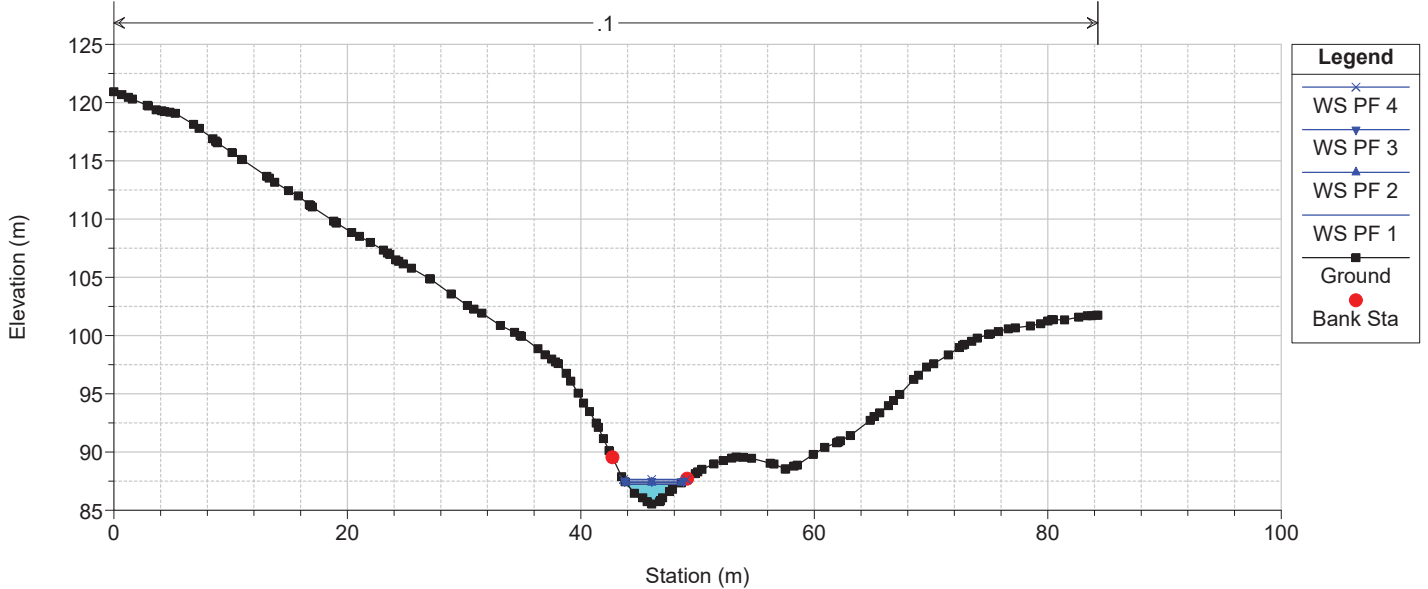
River = Rio Scamungia Reach = Asta 1 RS = 2151.663 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

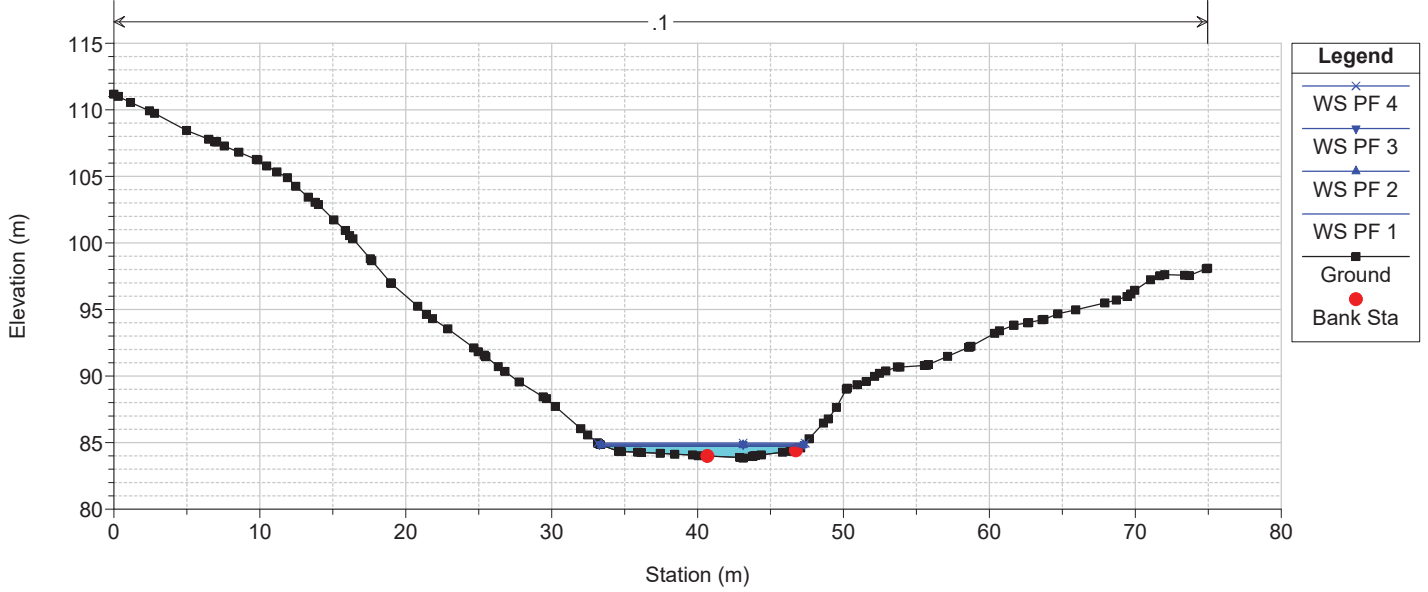
River = Rio Scamungia Reach = Asta 1 RS = 2126.361 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

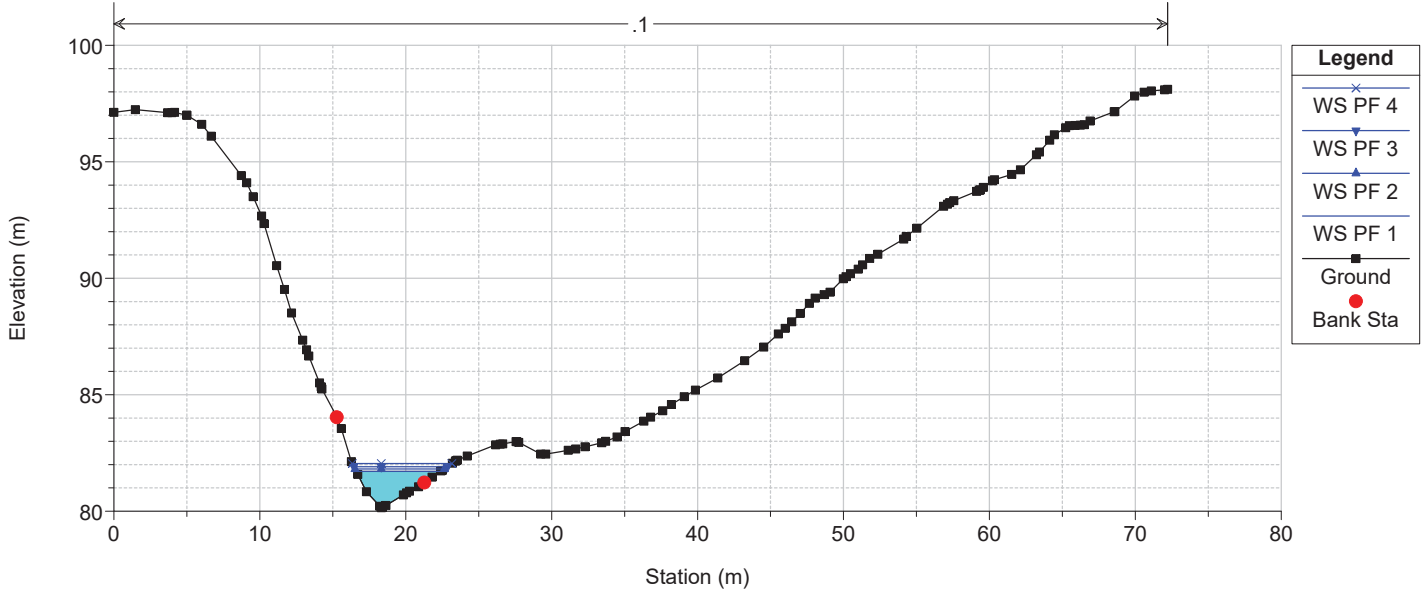
River = Rio Scamungia Reach = Asta 1 RS = 2100.489 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

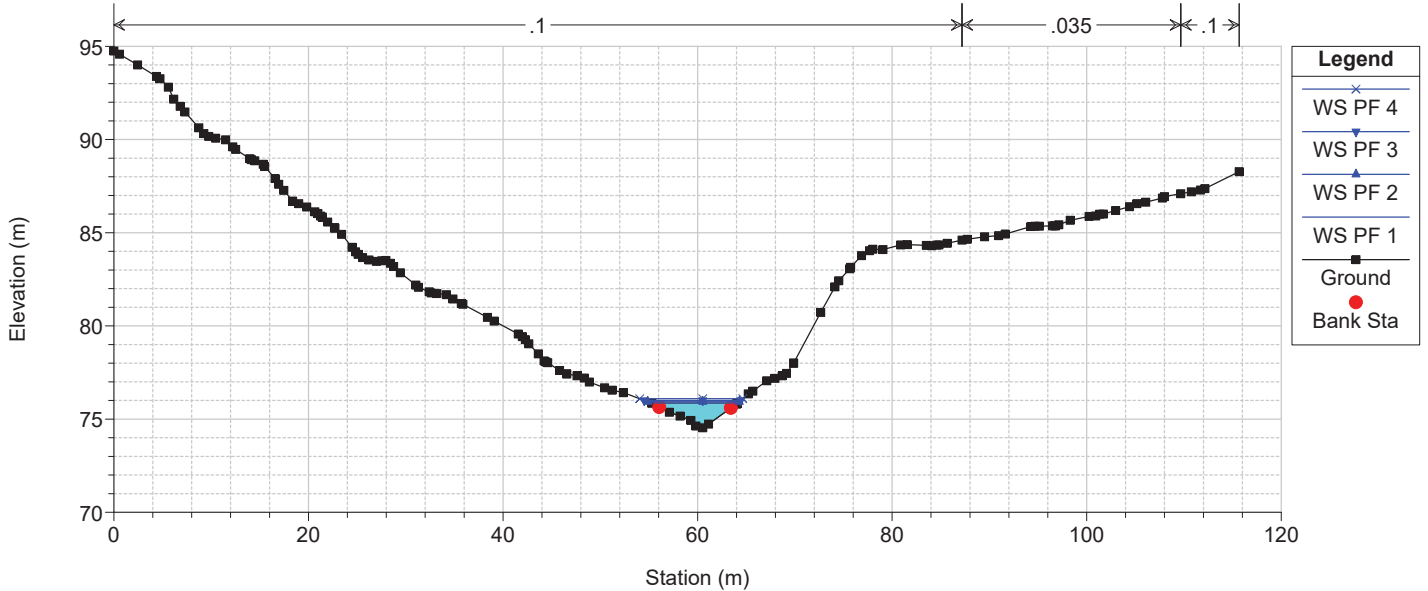
River = Rio Scamungia Reach = Asta 1 RS = 2066.17 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

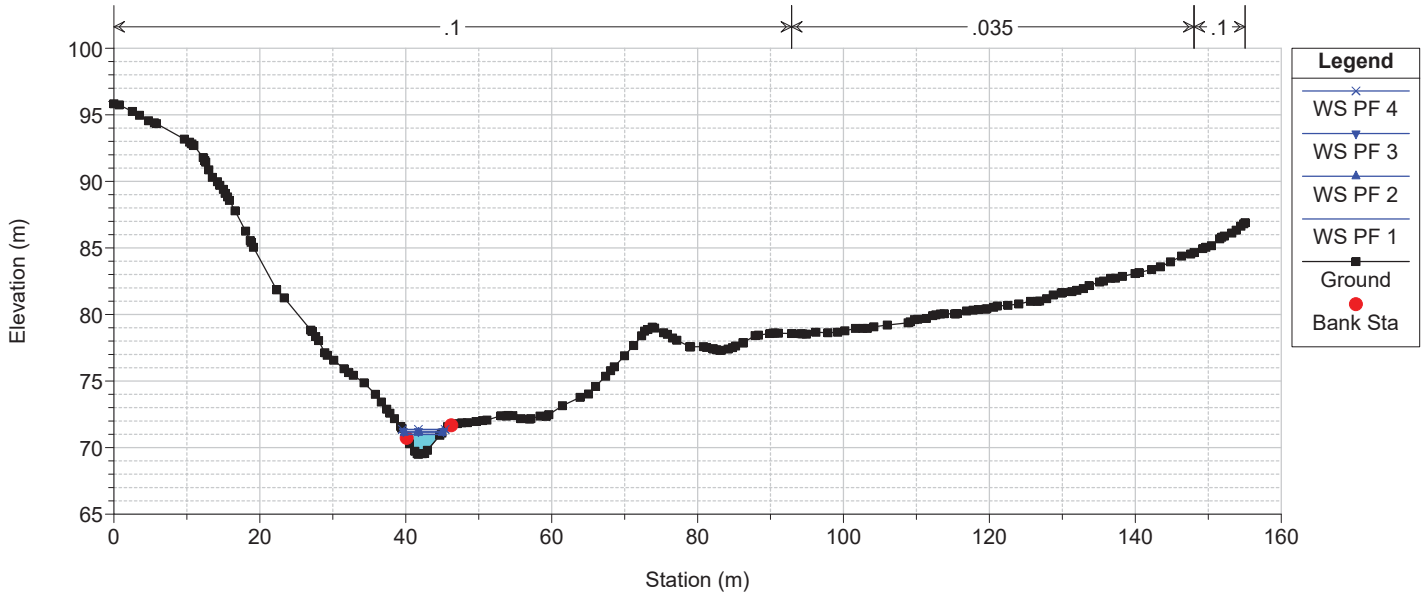
River = Rio Scamungia Reach = Asta 1 RS = 2001.156 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

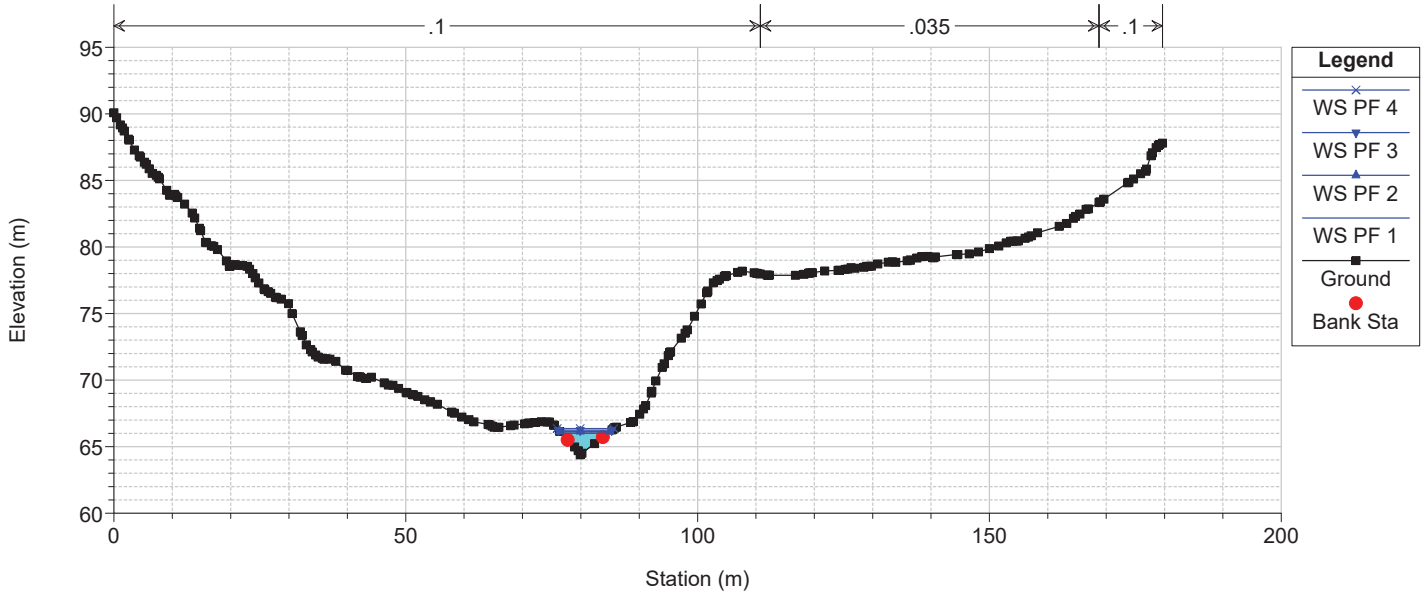
River = Rio Scamungia Reach = Asta 1 RS = 1954.079 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

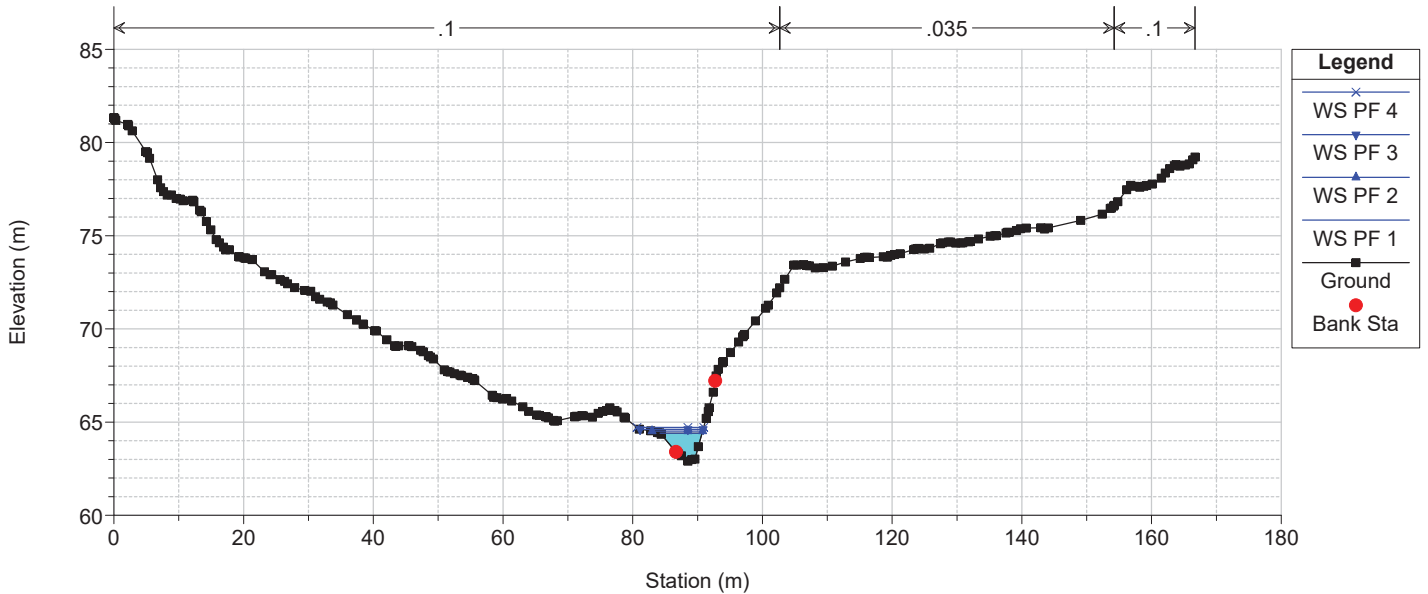
River = Rio Scamungia Reach = Asta 1 RS = 1894.868 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

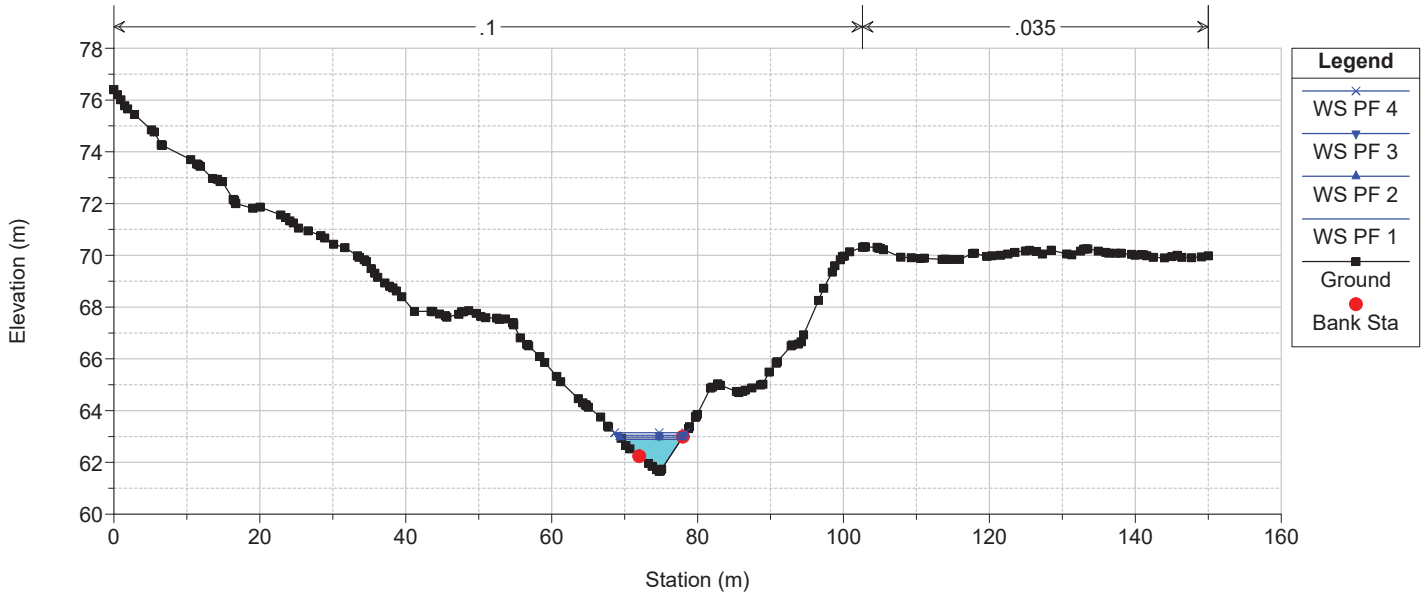
River = Rio Scamungia Reach = Asta 1 RS = 1868.65 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

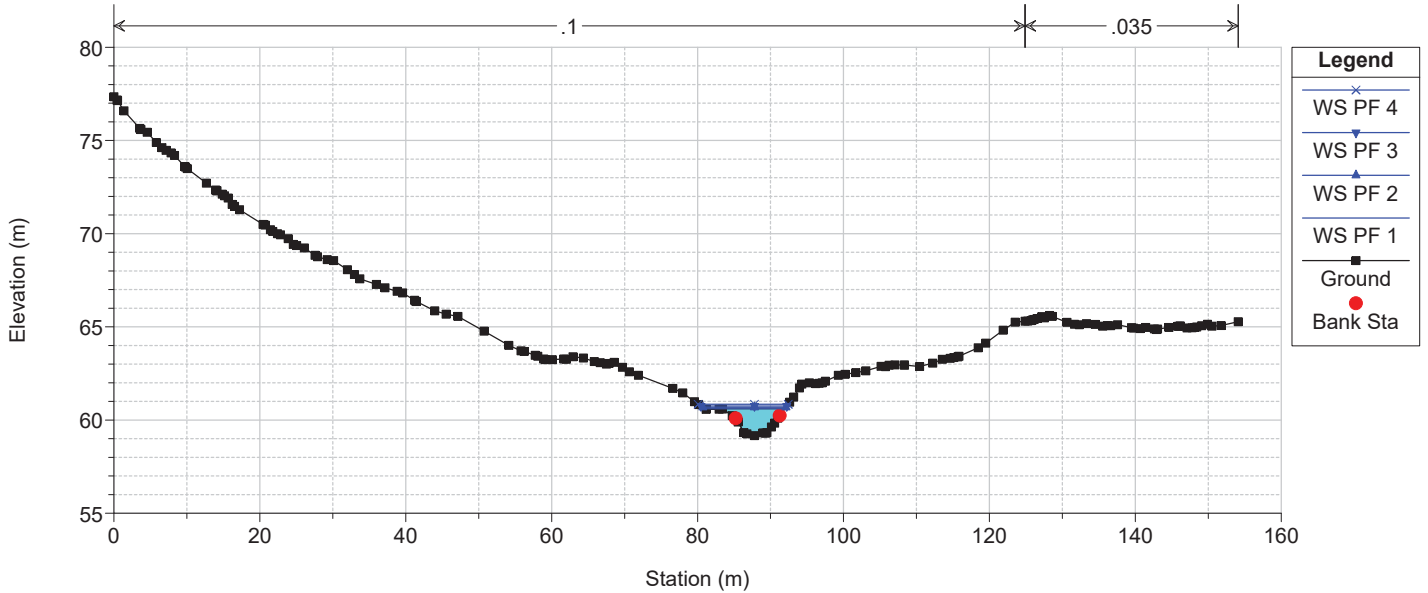
River = Rio Scamungia Reach = Asta 1 RS = 1850 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

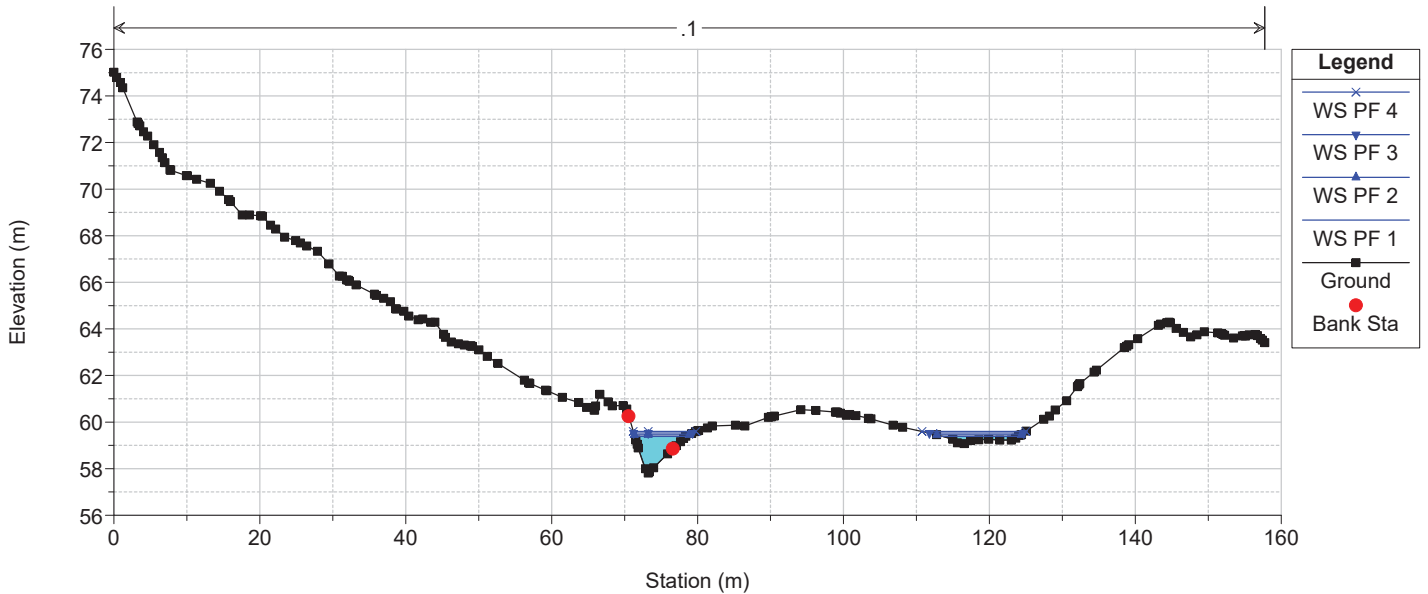
River = Rio Scamungia Reach = Asta 1 RS = 1821.607 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

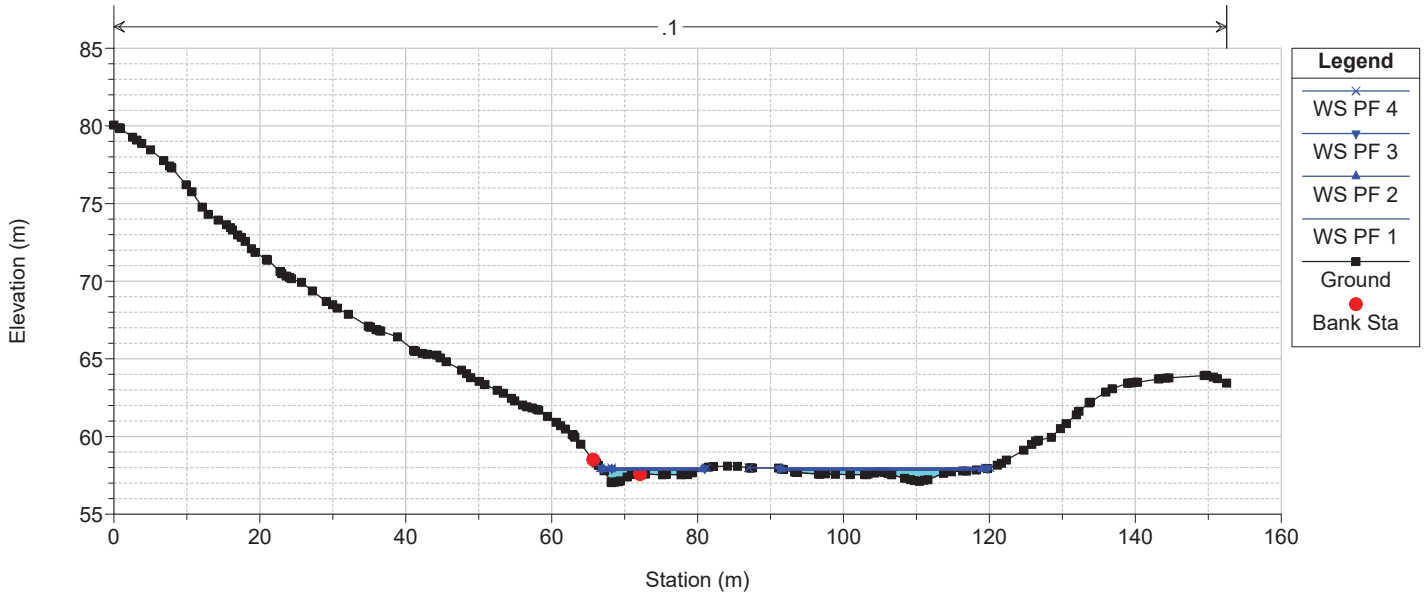
River = Rio Scamungia Reach = Asta 1 RS = 1797.1 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

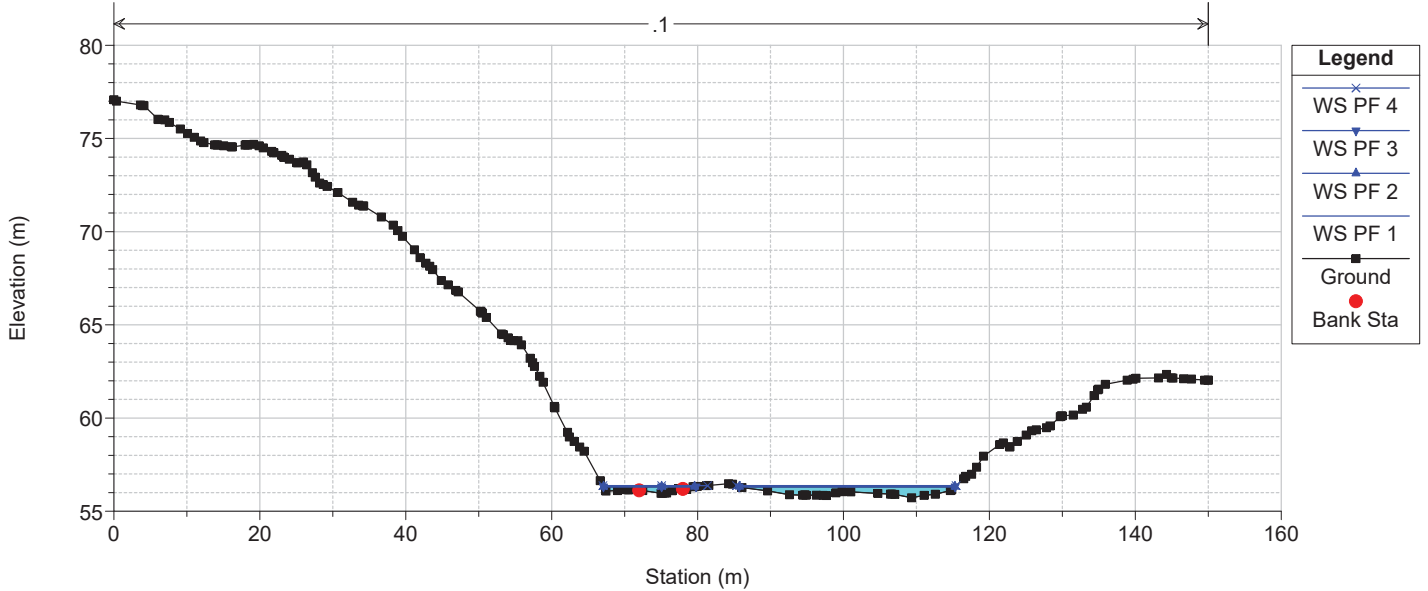
River = Rio Scamungia Reach = Asta 1 RS = 1777.653 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

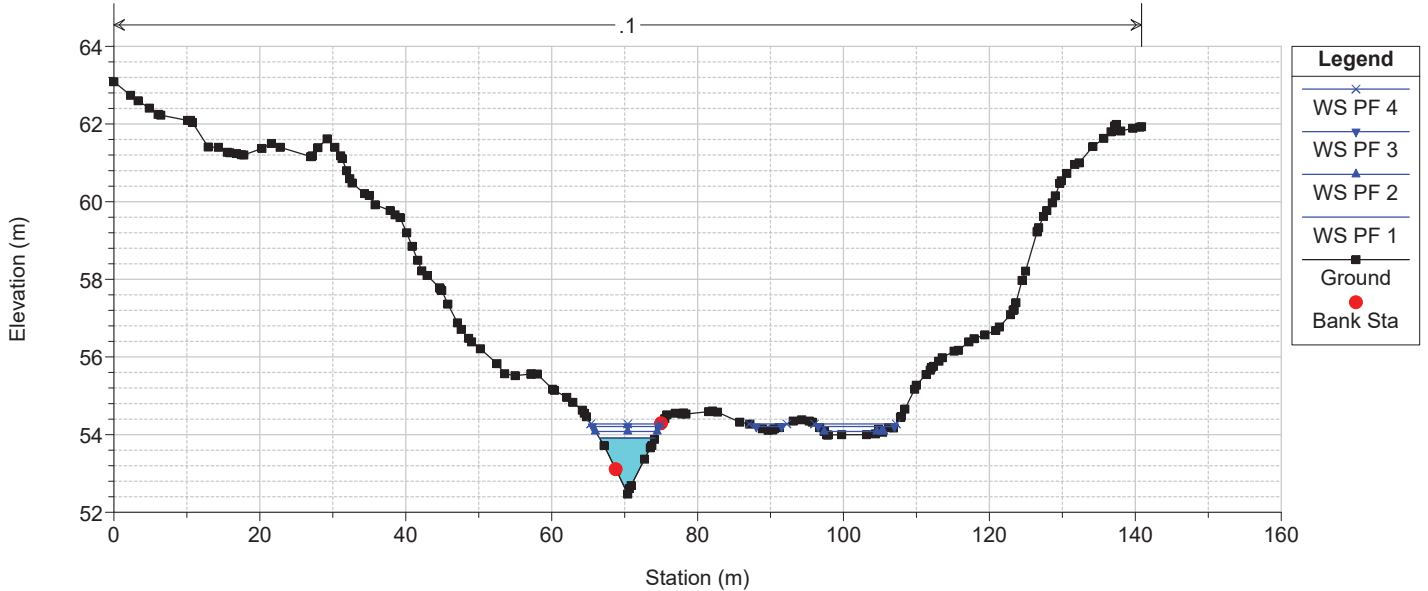
River = Rio Scamungia Reach = Asta 1 RS = 1750 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

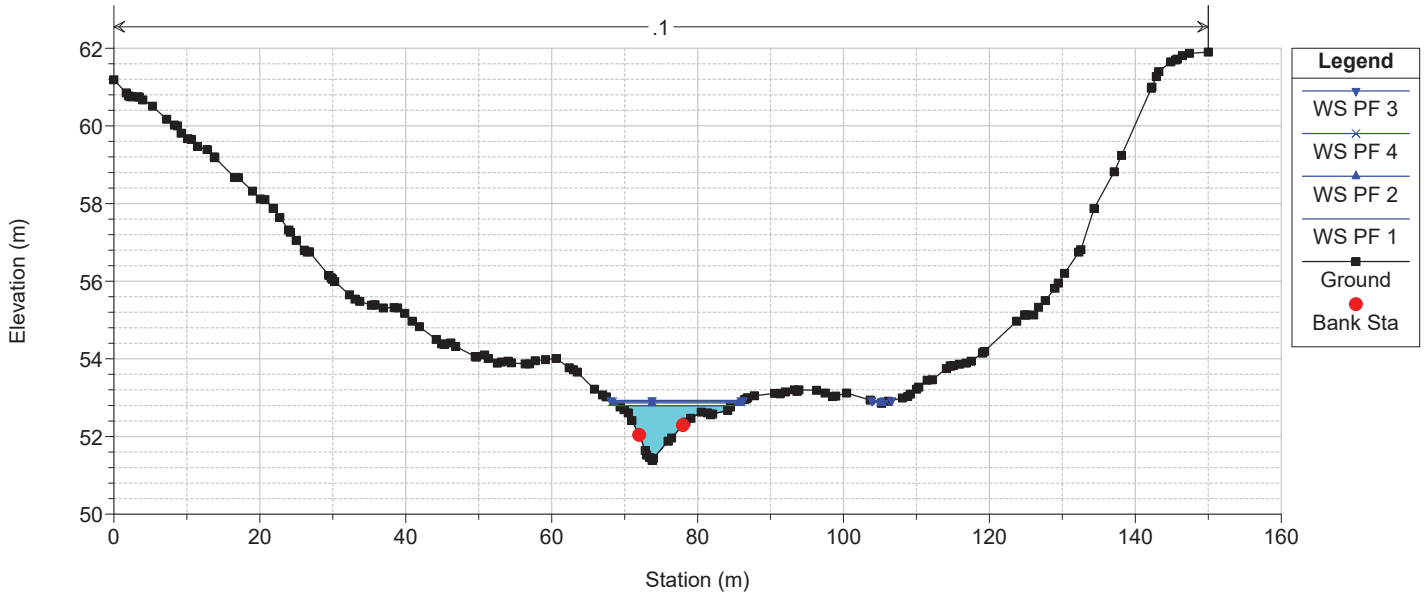
River = Rio Scamungia Reach = Asta 1 RS = 1720.582 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

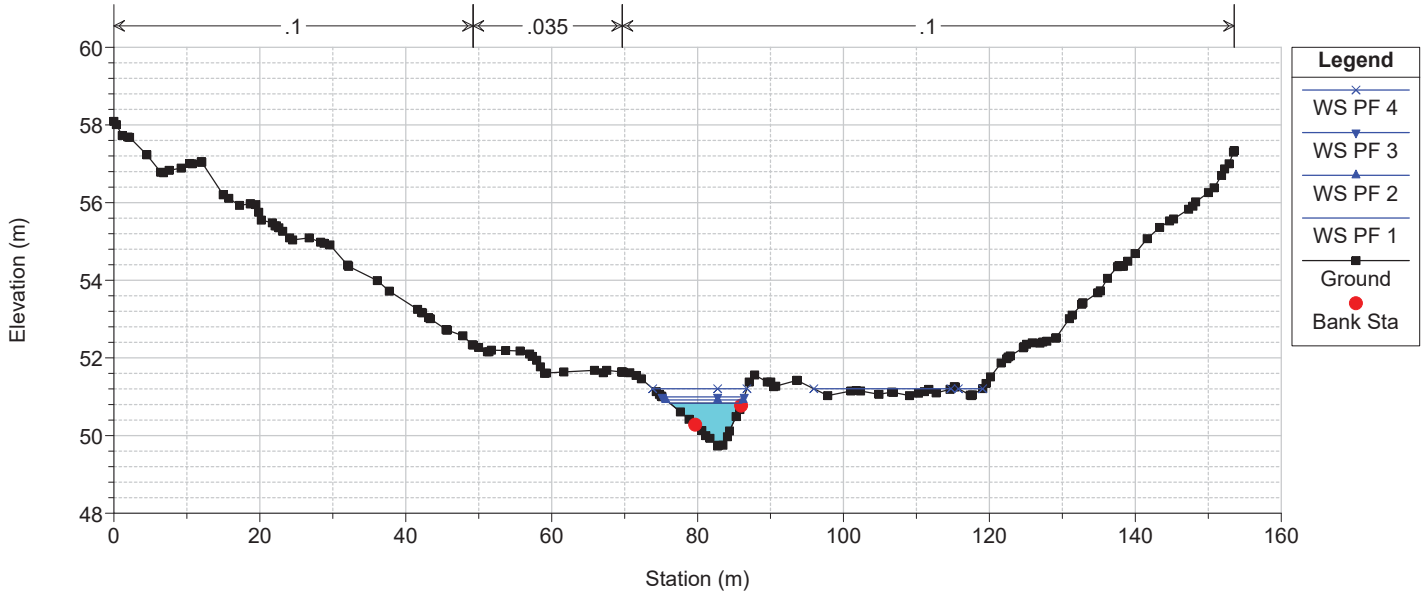
River = Rio Scamungia Reach = Asta 1 RS = 1700 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

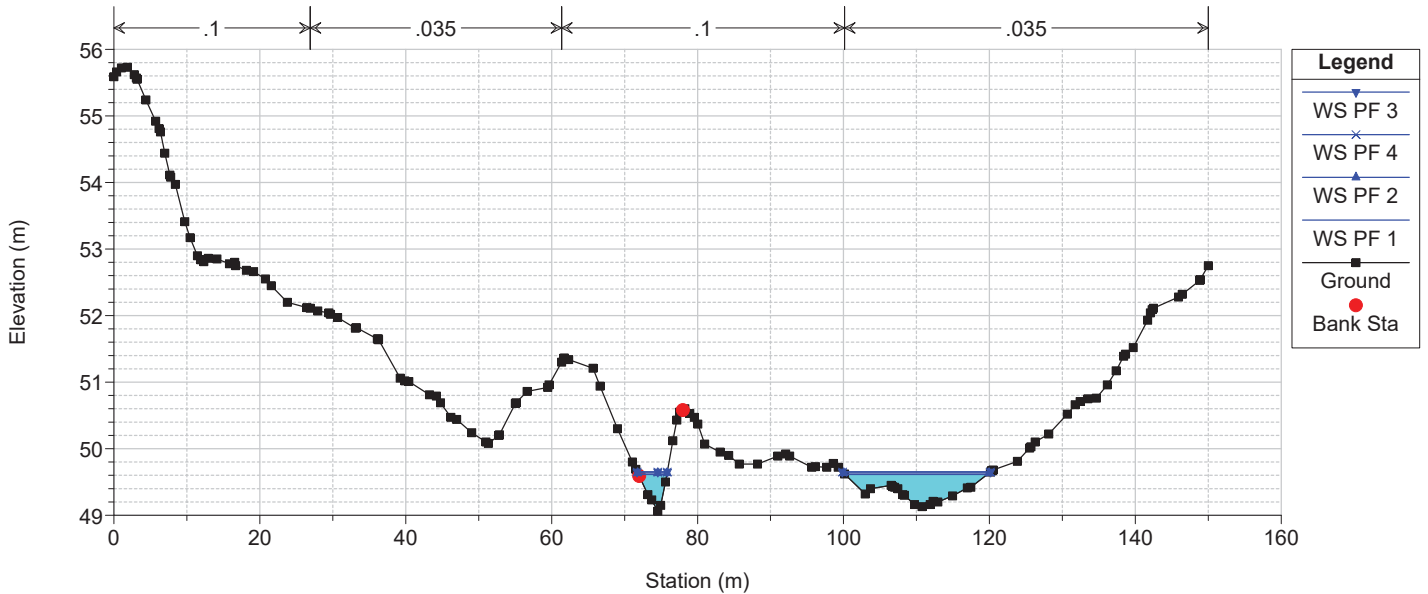
River = Rio Scamungia Reach = Asta 1 RS = 1669.545 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

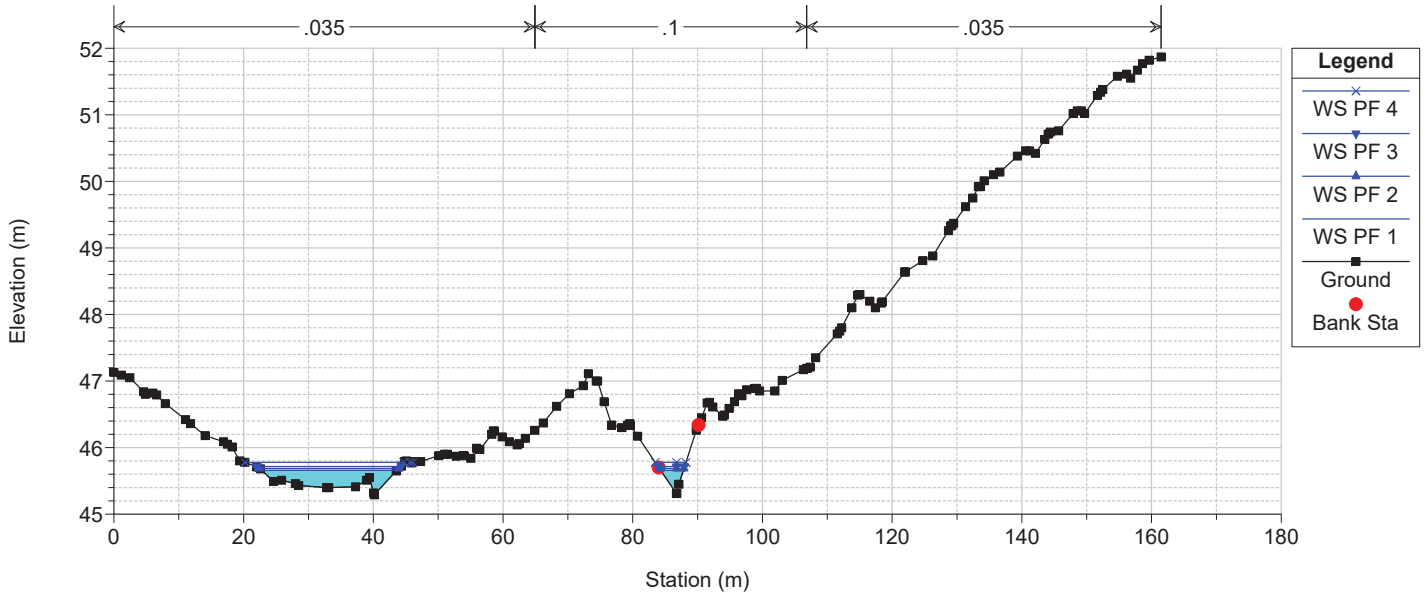
River = Rio Scamungia Reach = Asta 1 RS = 1650 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

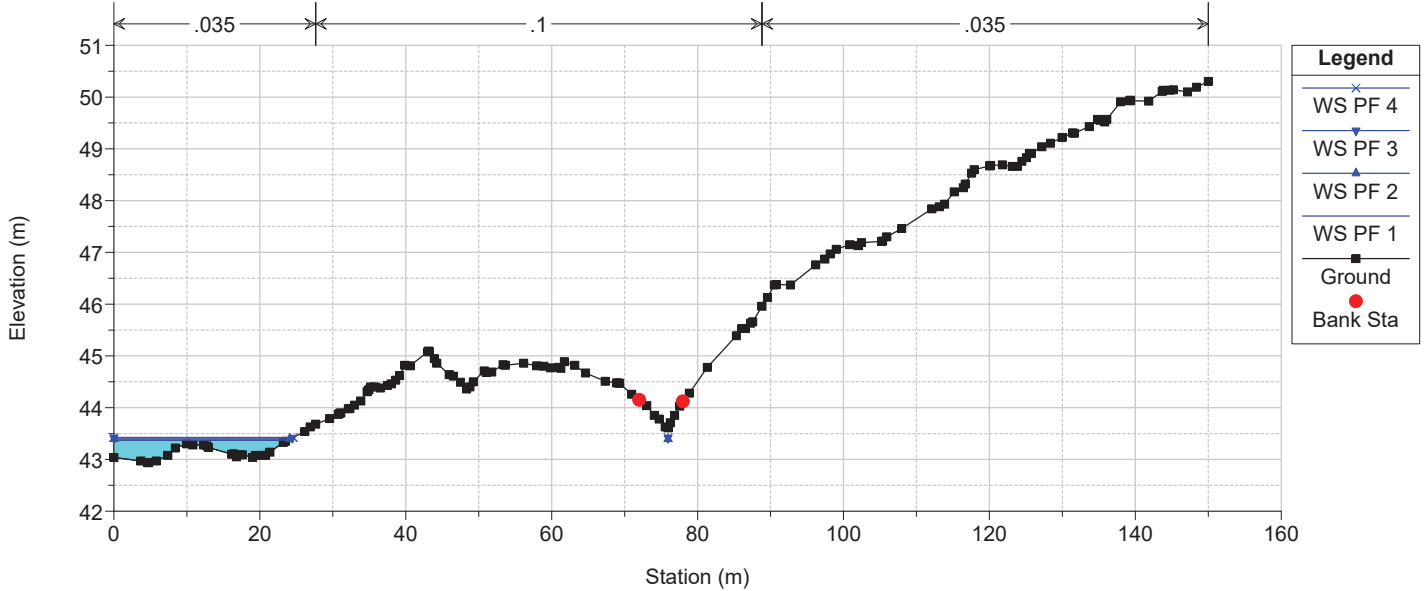
River = Rio Scamungia Reach = Asta 1 RS = 1589.547 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

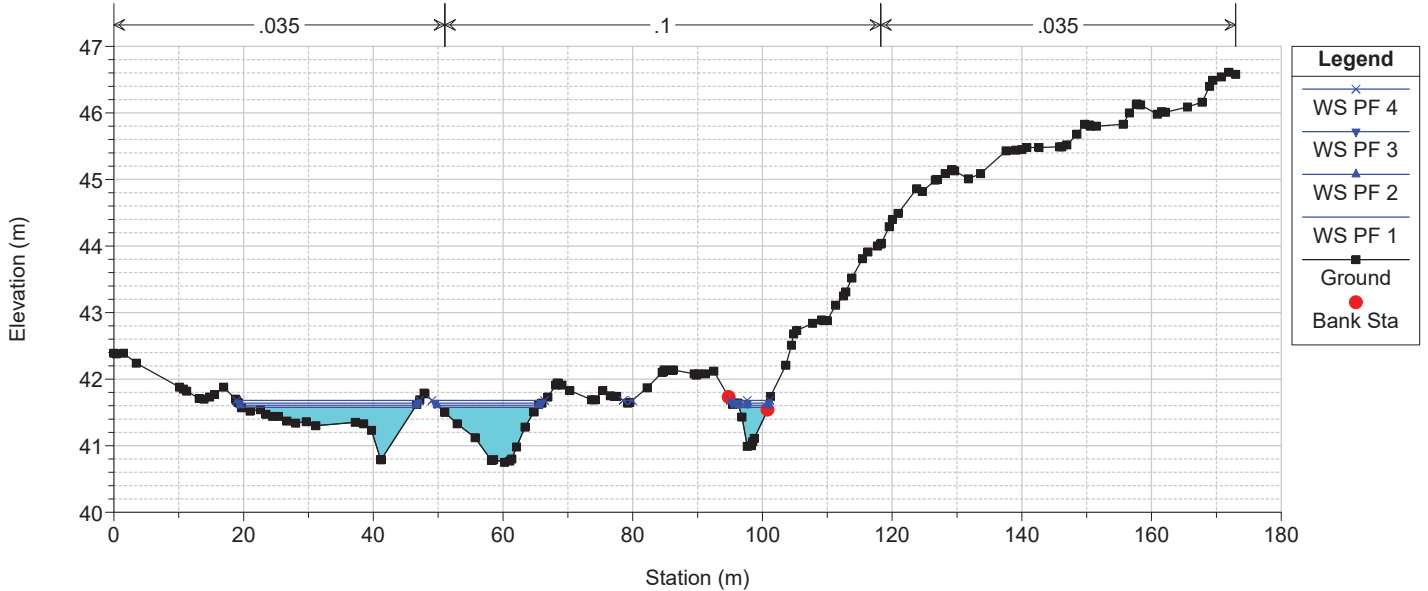
River = Rio Scamungia Reach = Asta 1 RS = 1550 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

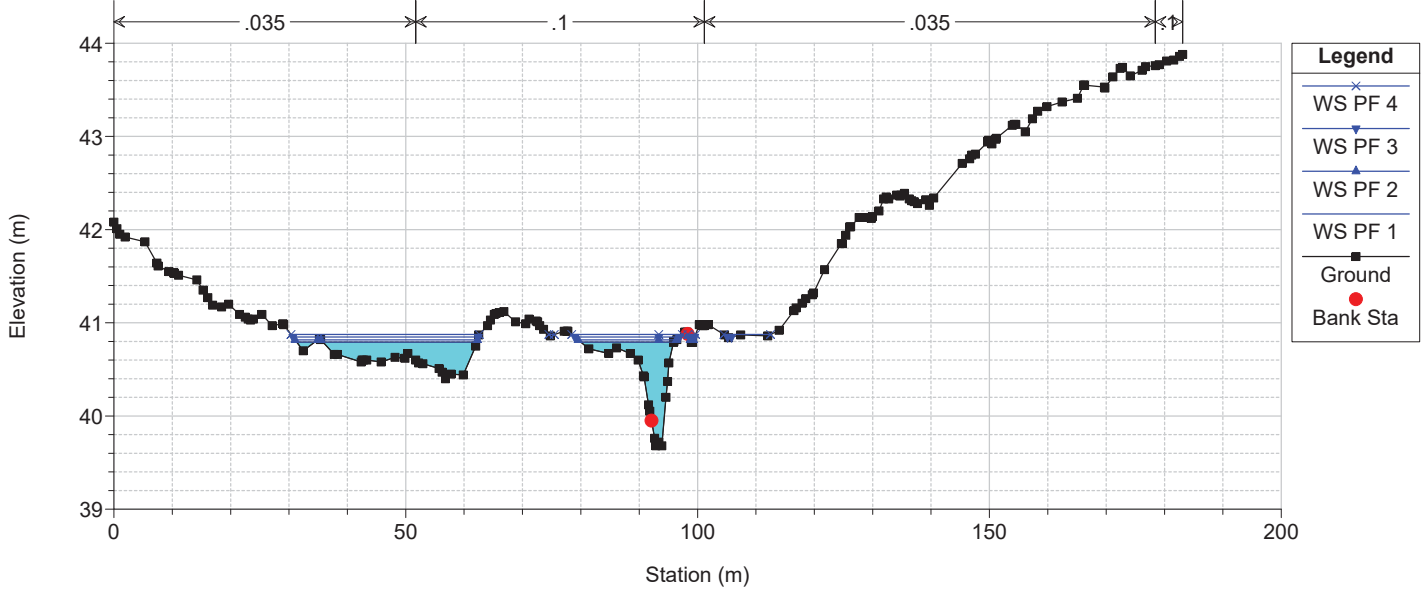
River = Rio Scamungia Reach = Asta 1 RS = 1506.602 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

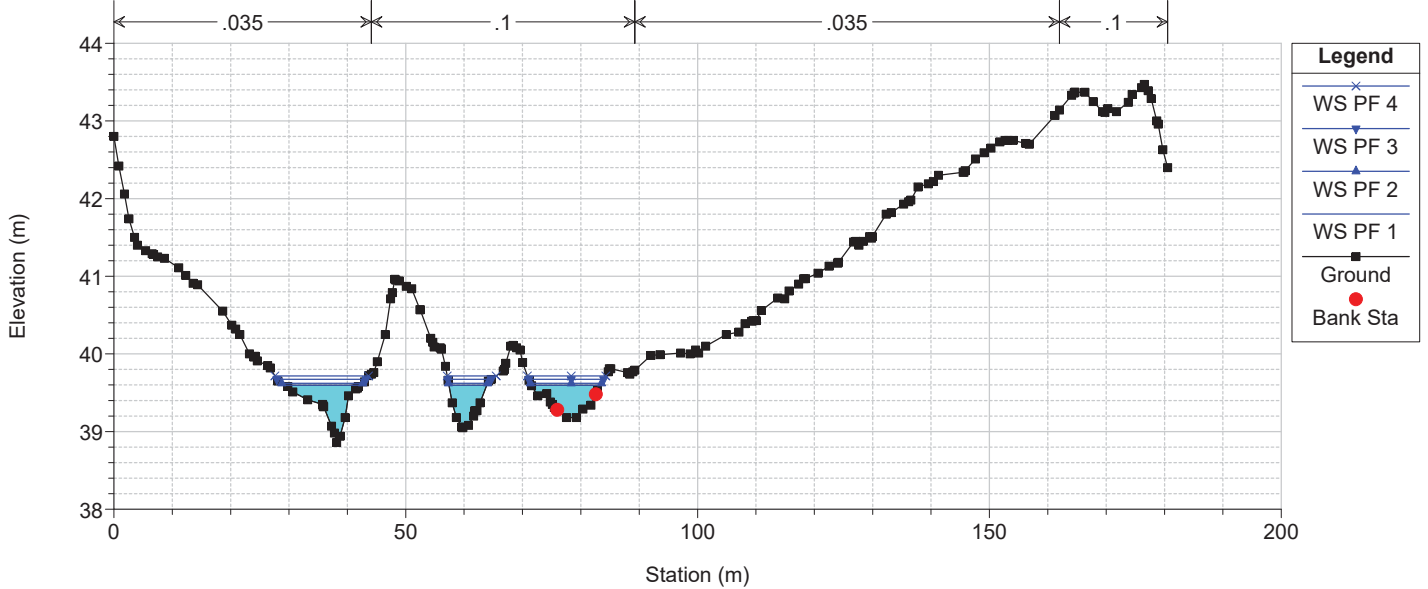
River = Rio Scamungia Reach = Asta 1 RS = 1468.003 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

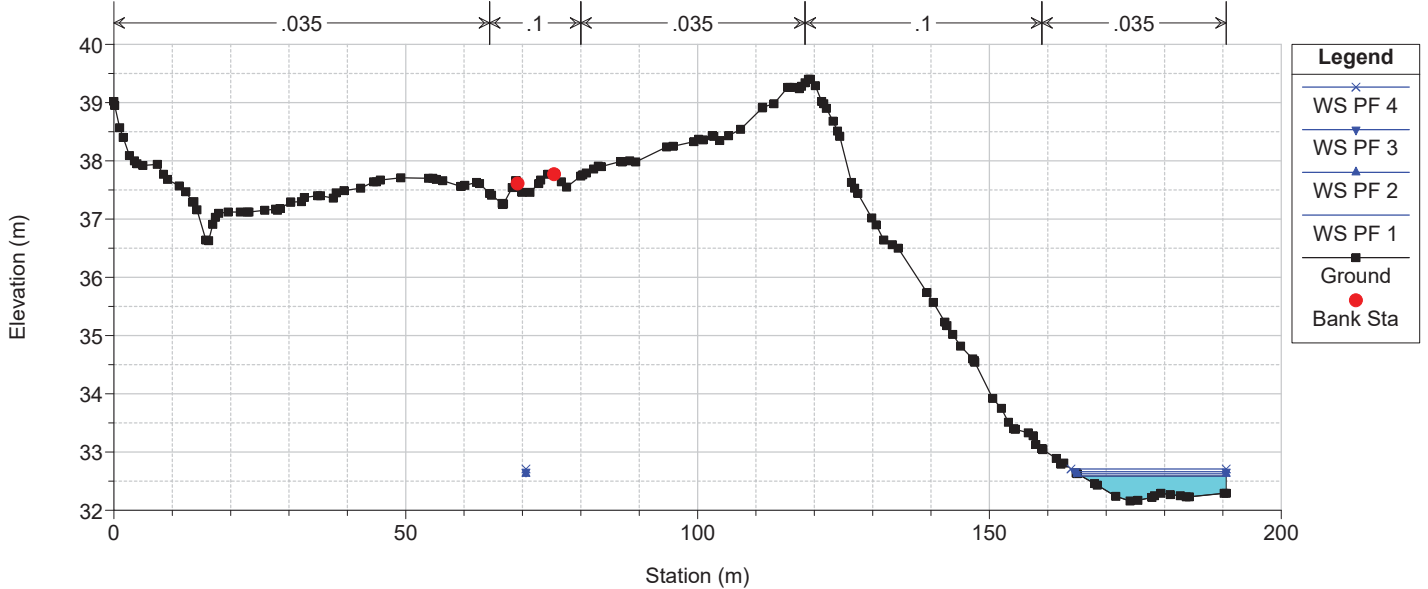
River = Rio Scamungia Reach = Asta 1 RS = 1446.65 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

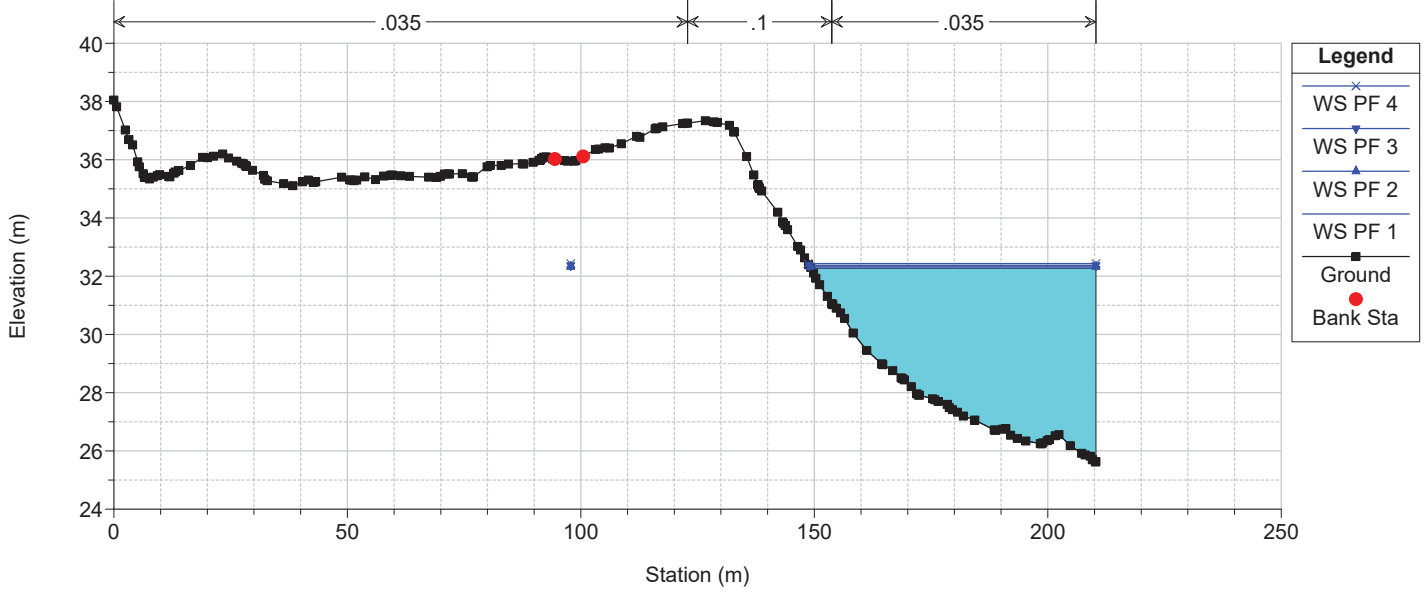
River = Rio Scamungia Reach = Asta 1 RS = 1403.097 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

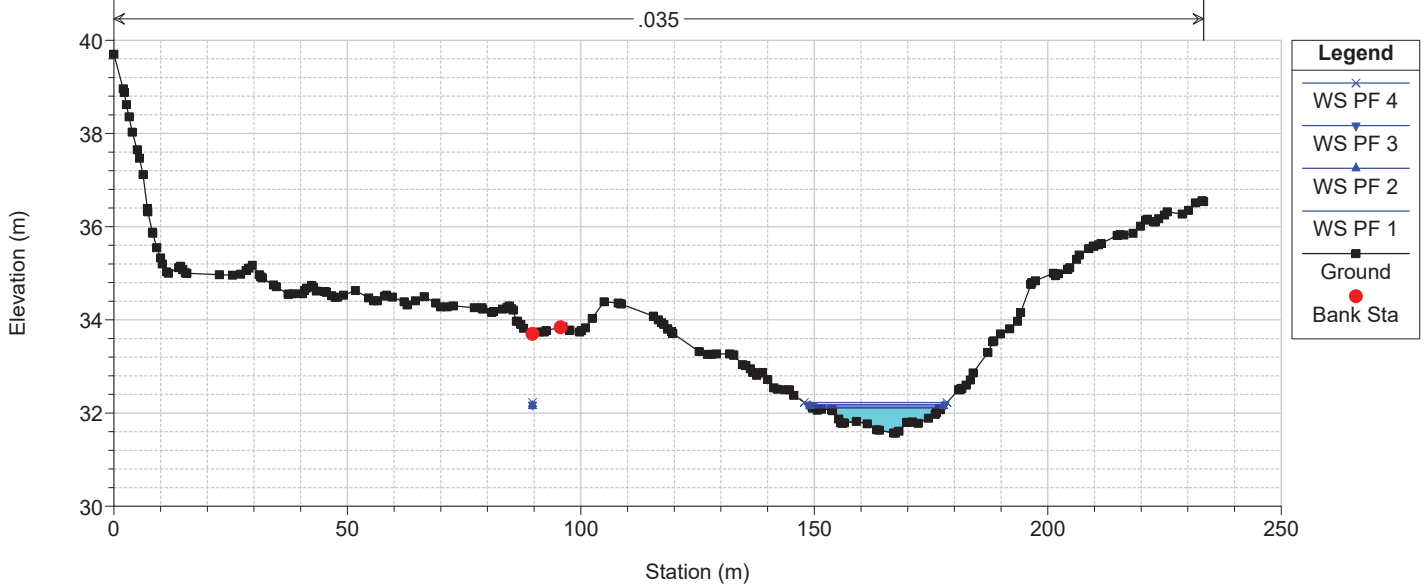
River = Rio Scamungia Reach = Asta 1 RS = 1354.159 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

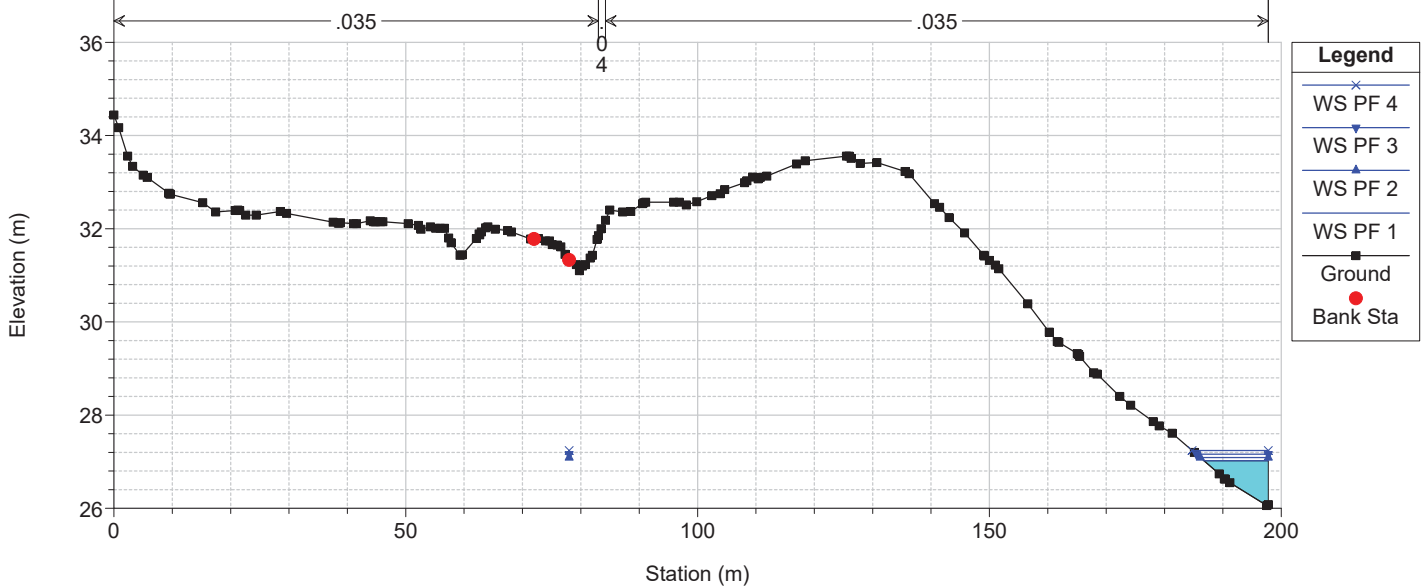
River = Rio Scamungia Reach = Asta 1 RS = 1302.055 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

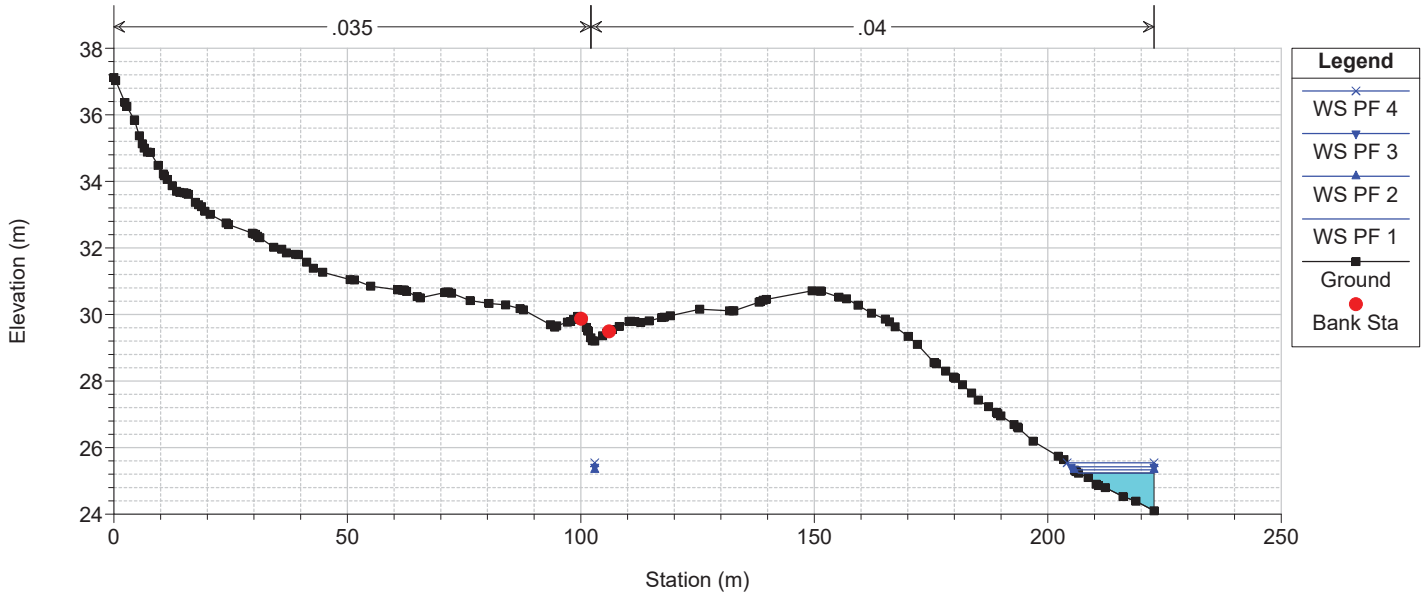
River = Rio Scamungia Reach = Asta 1 RS = 1250 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

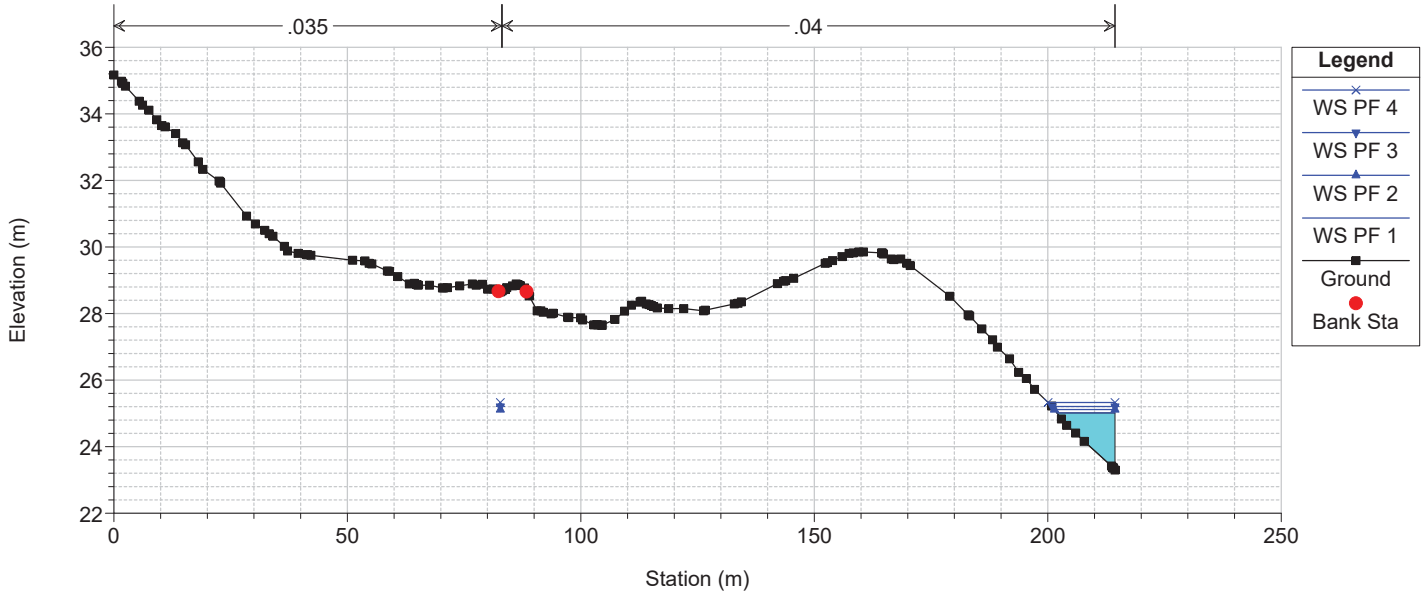
River = Rio Scamungia Reach = Asta 1 RS = 1196.73 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

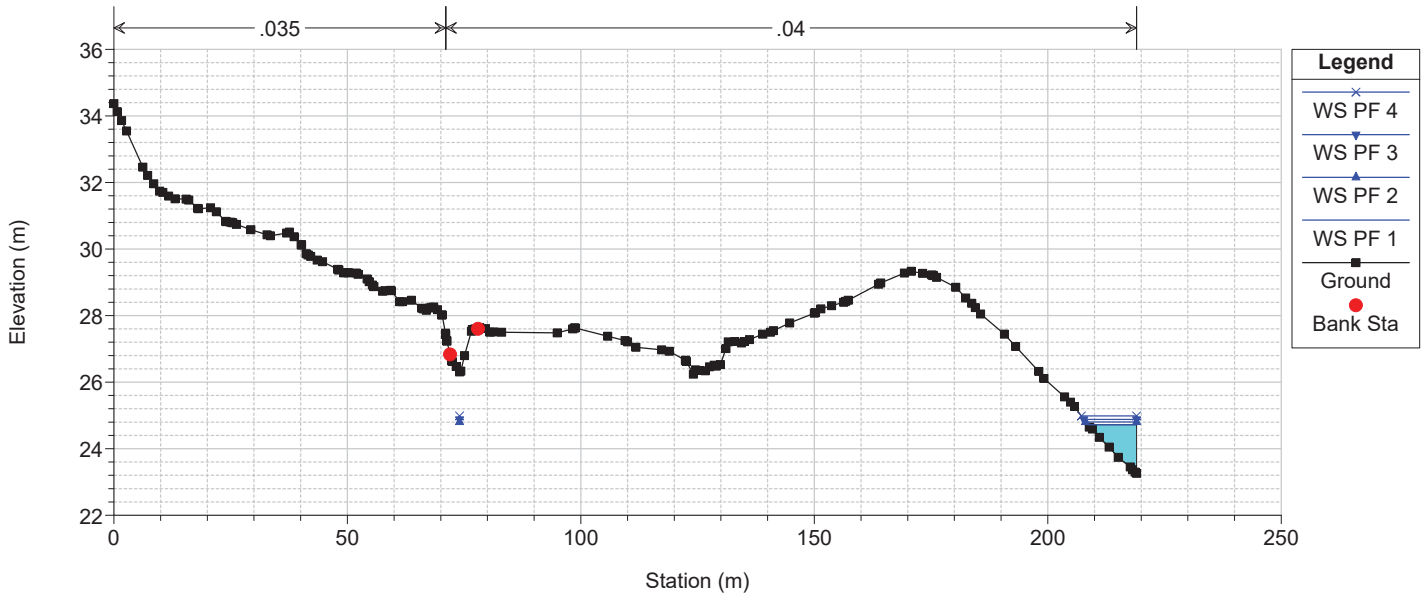
River = Rio Scamungia Reach = Asta 1 RS = 1145.341 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

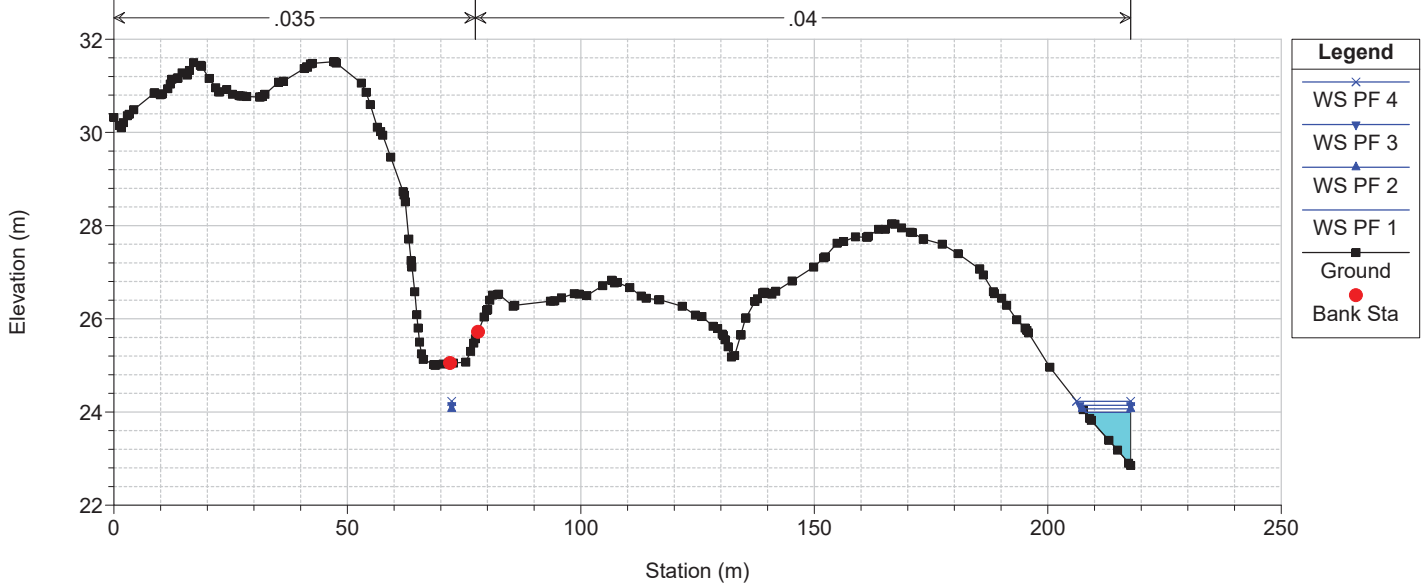
River = Rio Scamungia Reach = Asta 1 RS = 1100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

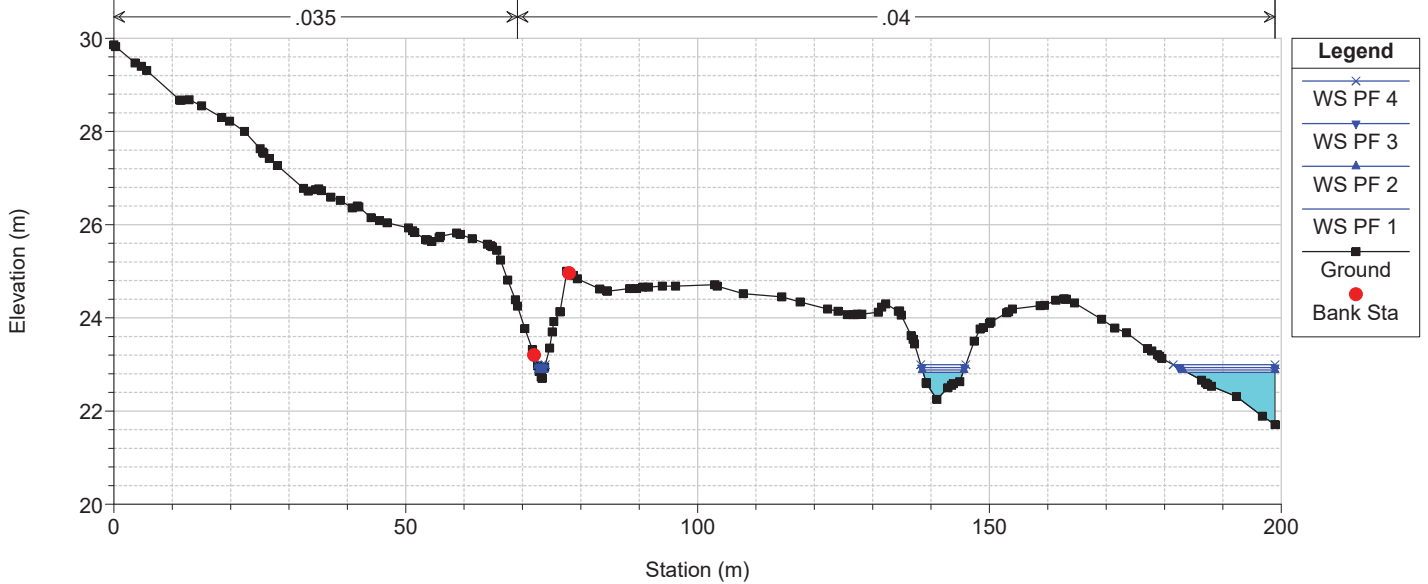
River = Rio Scamungia Reach = Asta 1 RS = 1050 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

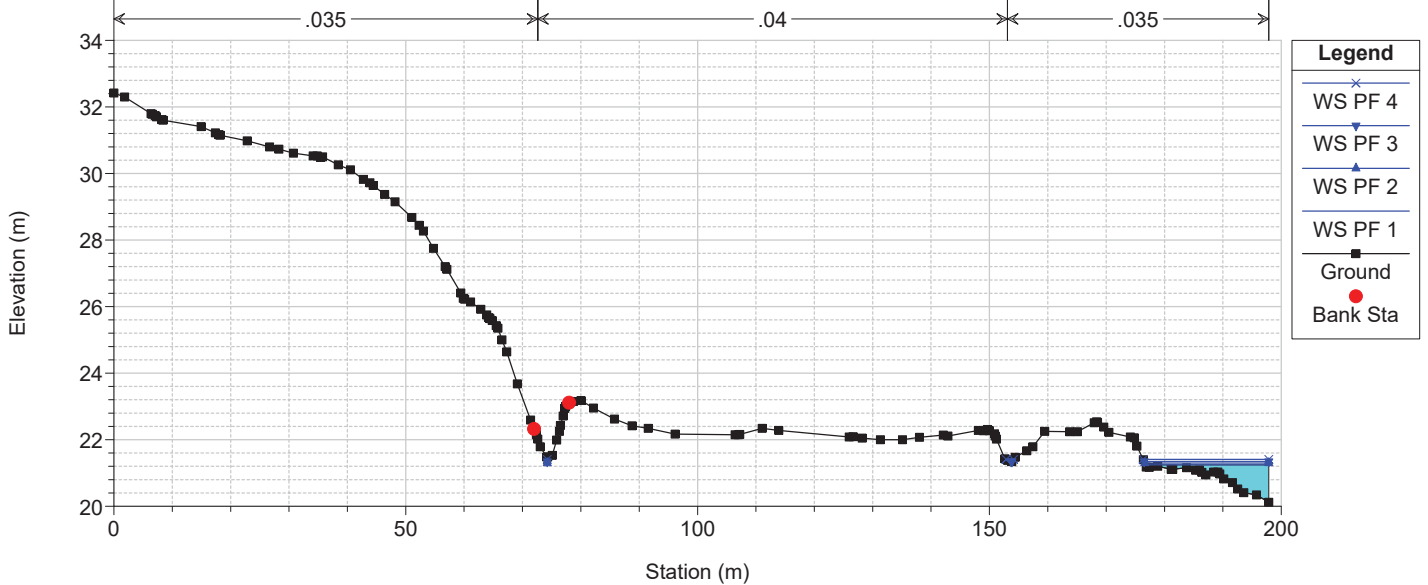
River = Rio Scamungia Reach = Asta 1 RS = 1000 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

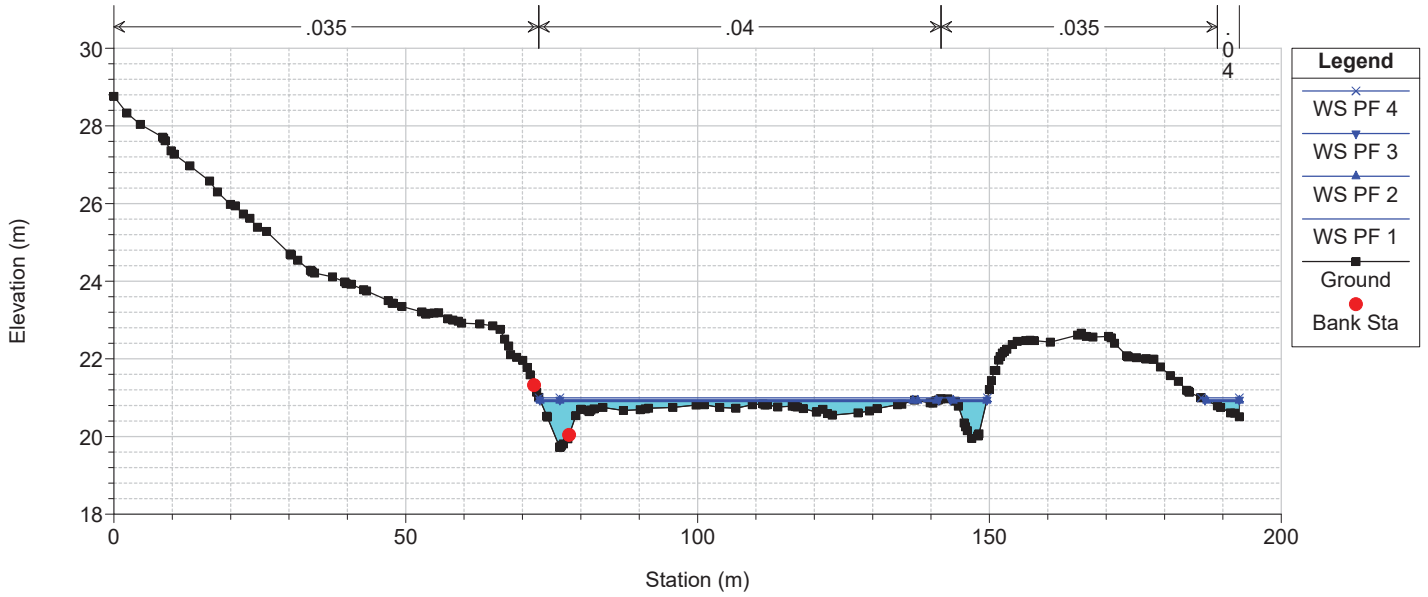
River = Rio Scamungia Reach = Asta 1 RS = 950 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

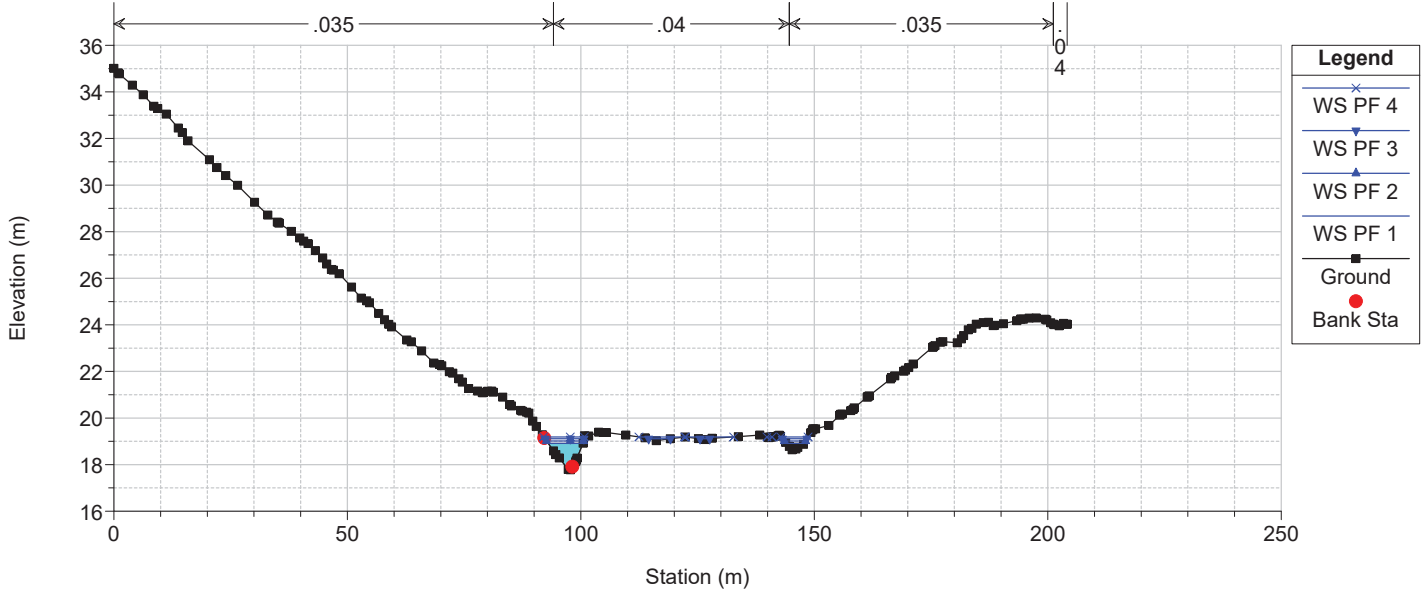
River = Rio Scamungia Reach = Asta 1 RS = 899.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

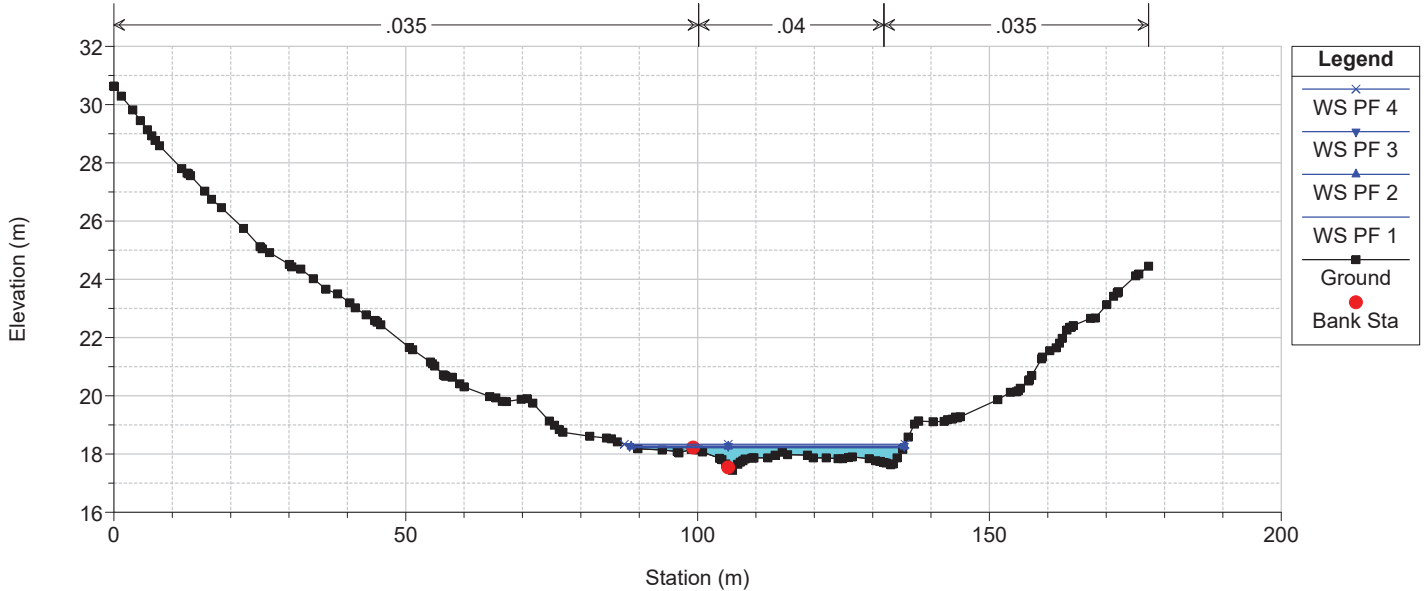
River = Rio Scamungia Reach = Asta 1 RS = 851.7595 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

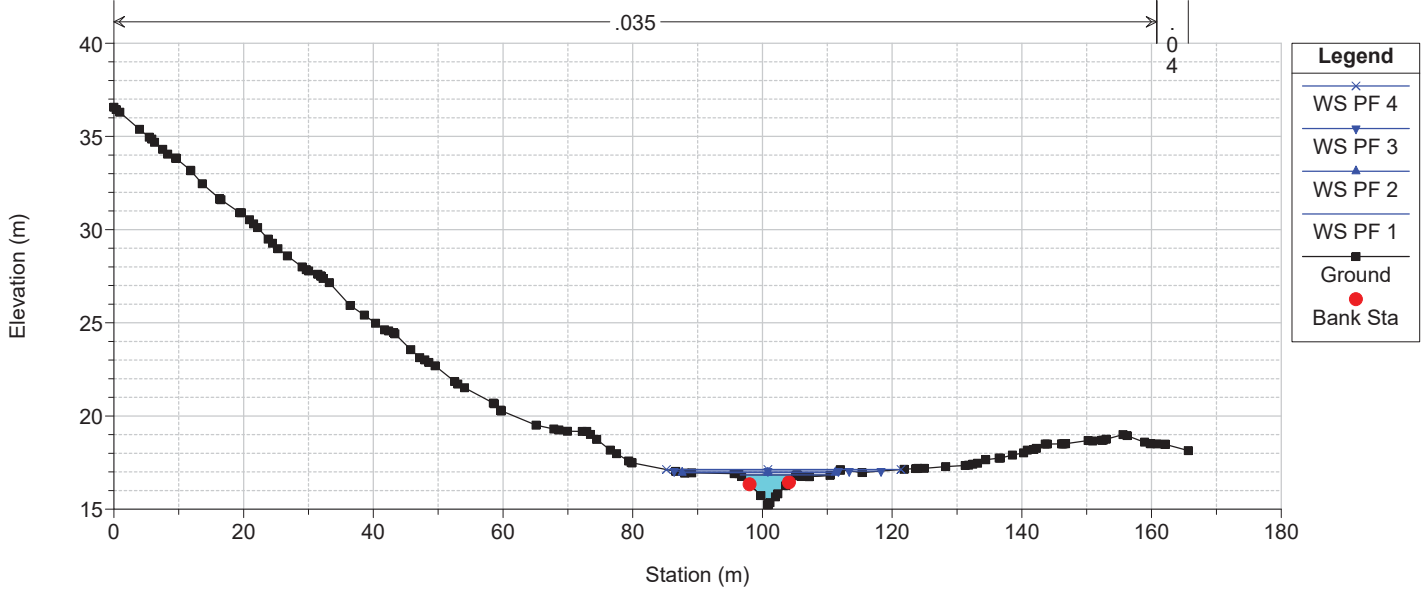
River = Rio Scamungia Reach = Asta 1 RS = 802.1884 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

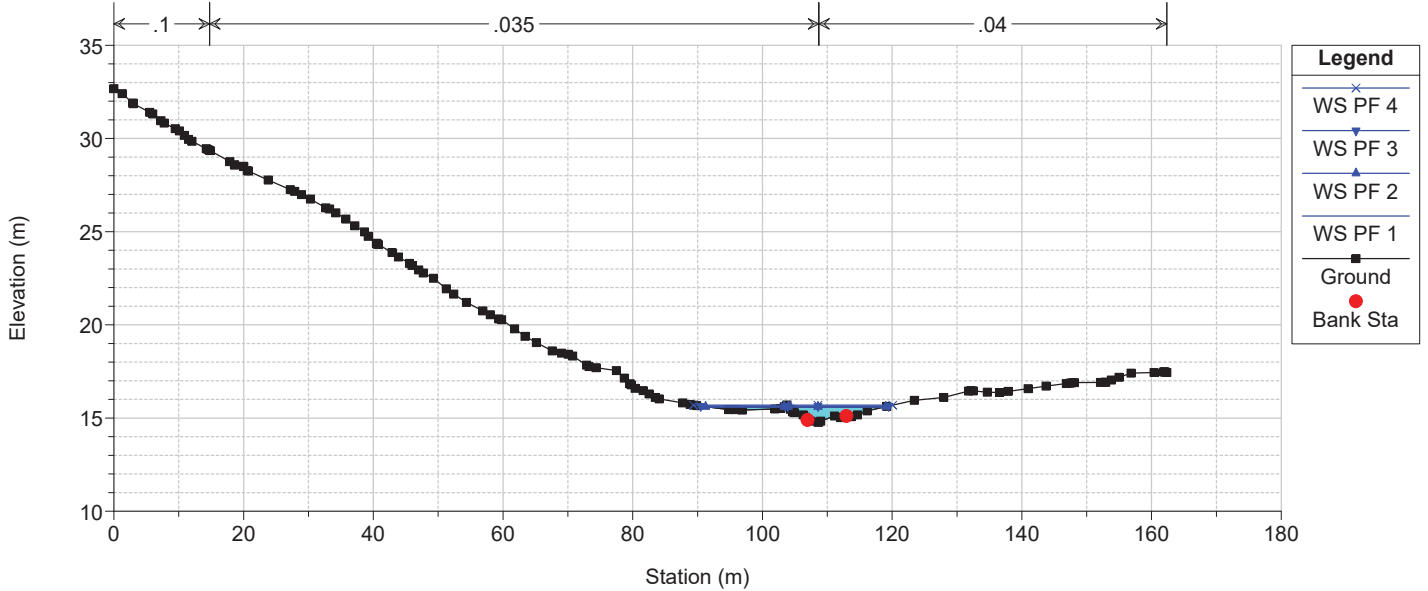
River = Rio Scamungia Reach = Asta 1 RS = 751.9952 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

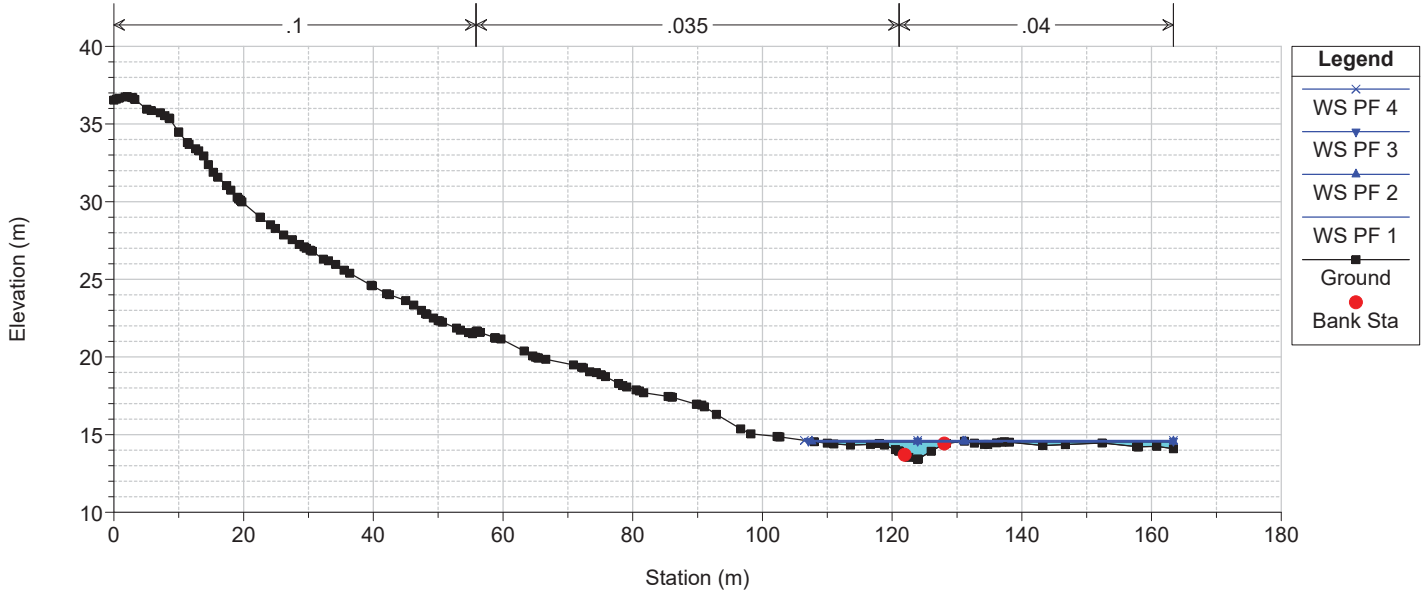
River = Rio Scamungia Reach = Asta 1 RS = 700.7482 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

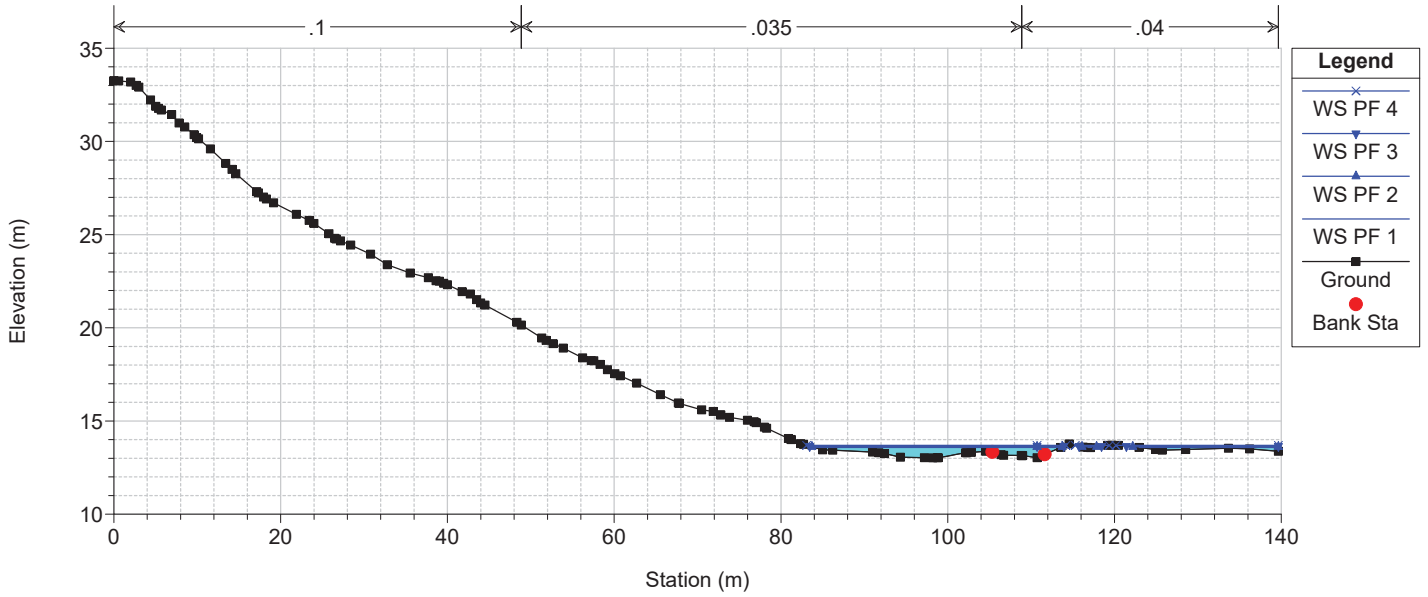
River = Rio Scamungia Reach = Asta 1 RS = 653.0841 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

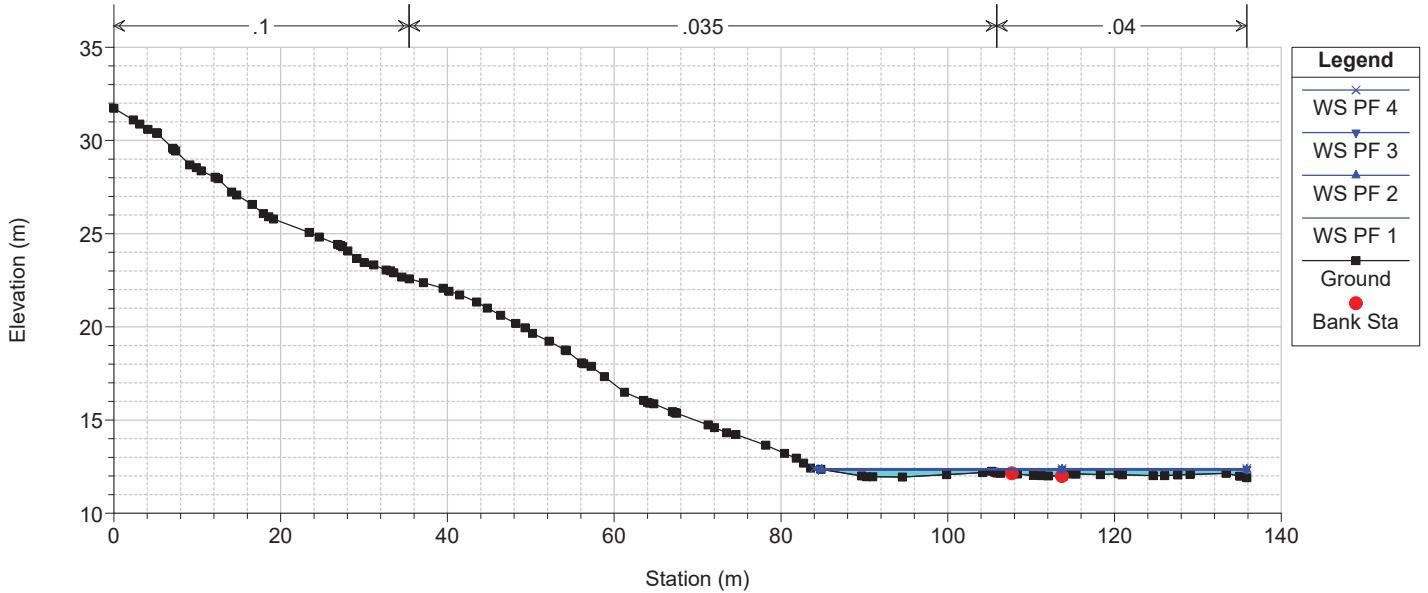
River = Rio Scamungia Reach = Asta 1 RS = 608.2032 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

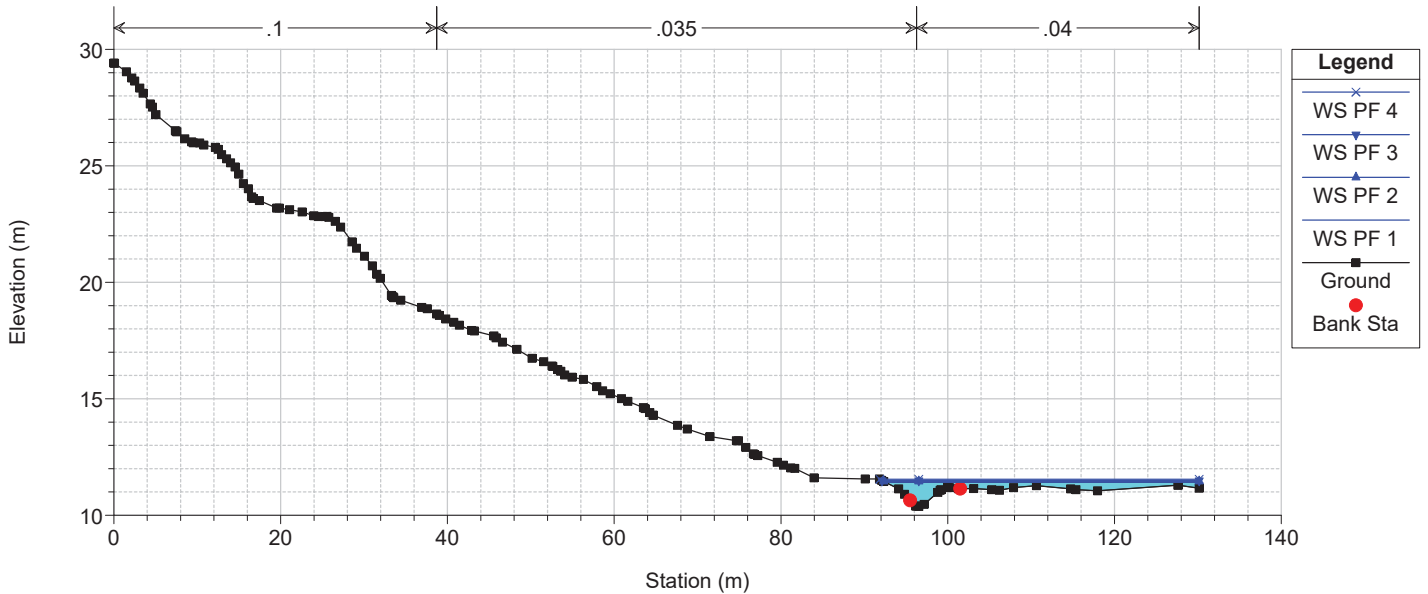
River = Rio Scamungia Reach = Asta 1 RS = 557.7609 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

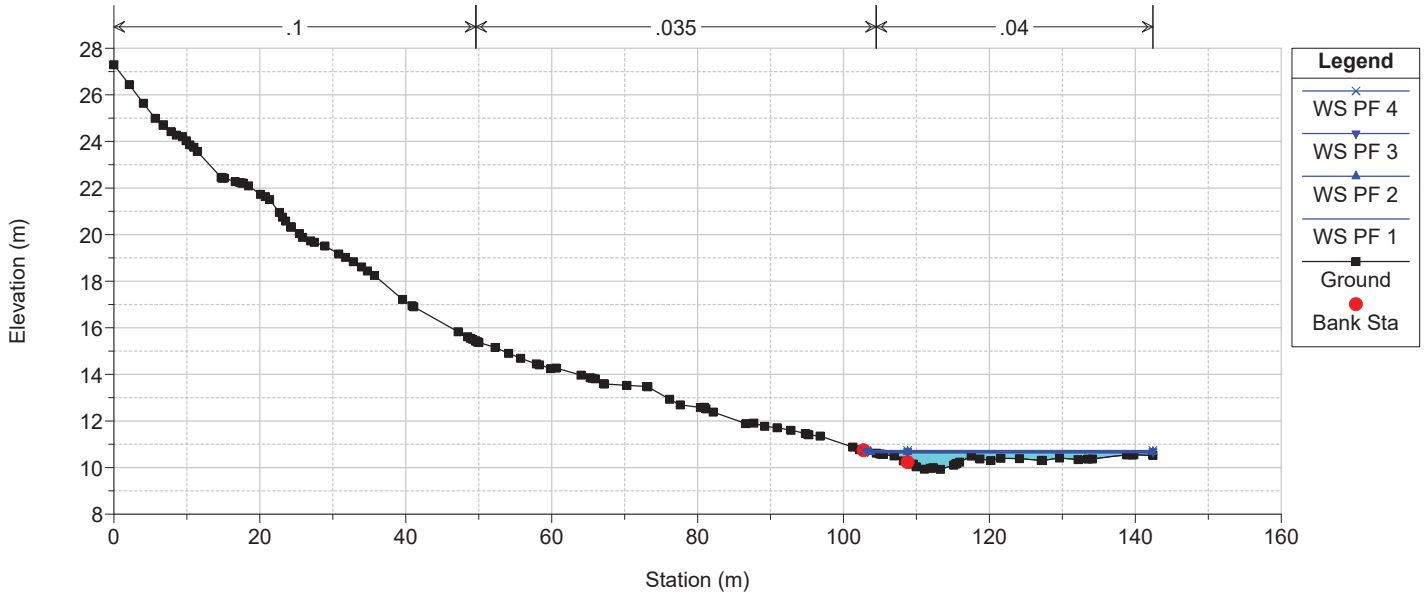
River = Rio Scamungia Reach = Asta 1 RS = 527.76 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

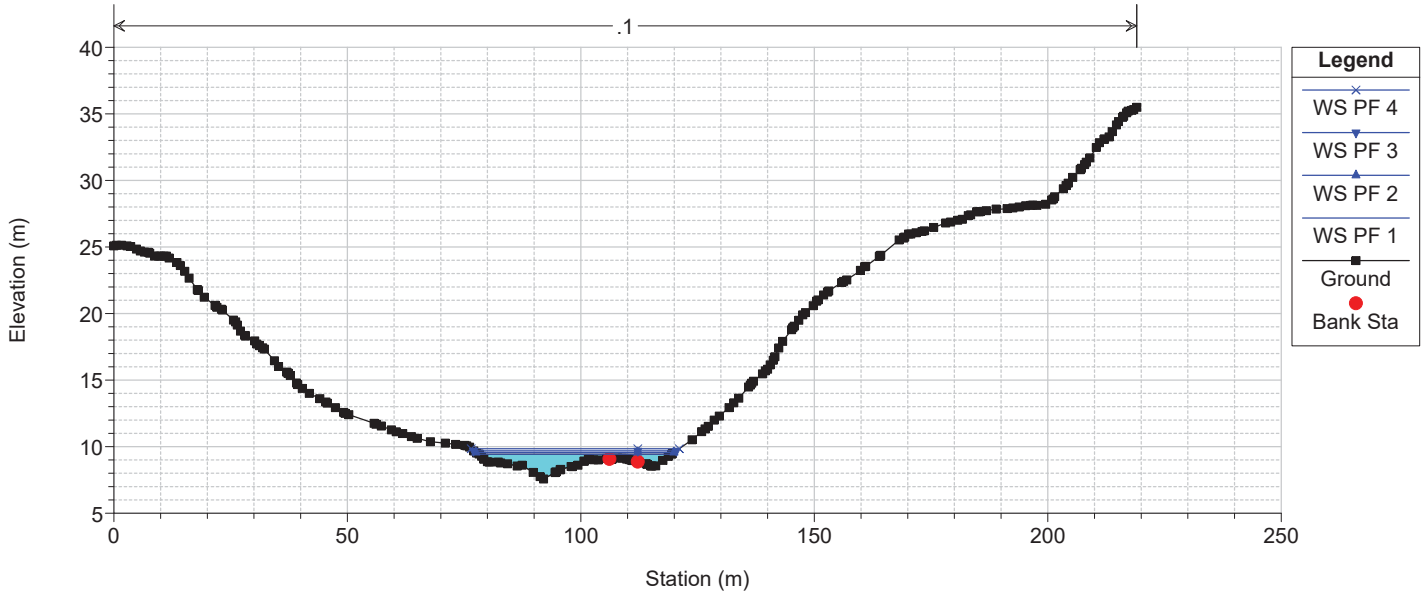
River = Rio Scamungia Reach = Asta 1 RS = 497.872 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

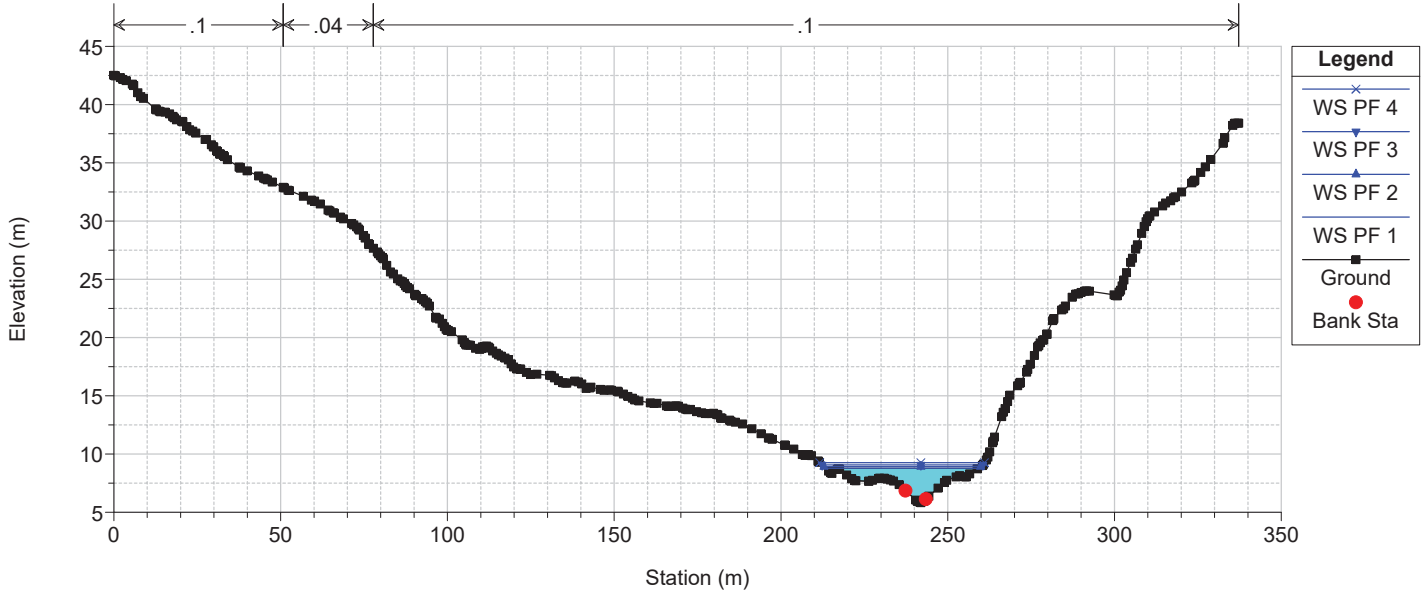
River = Rio Scamungia Reach = Asta 2 RS = 406.1731 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

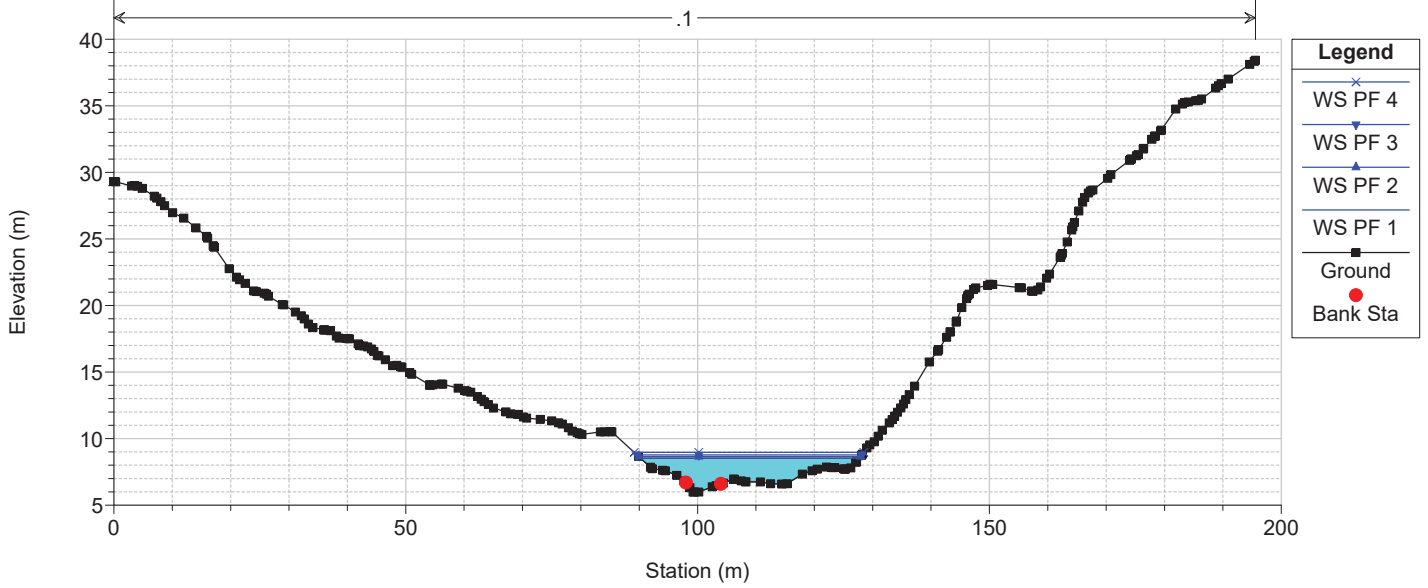
River = Rio Scamungia Reach = Asta 2 RS = 363.3358 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

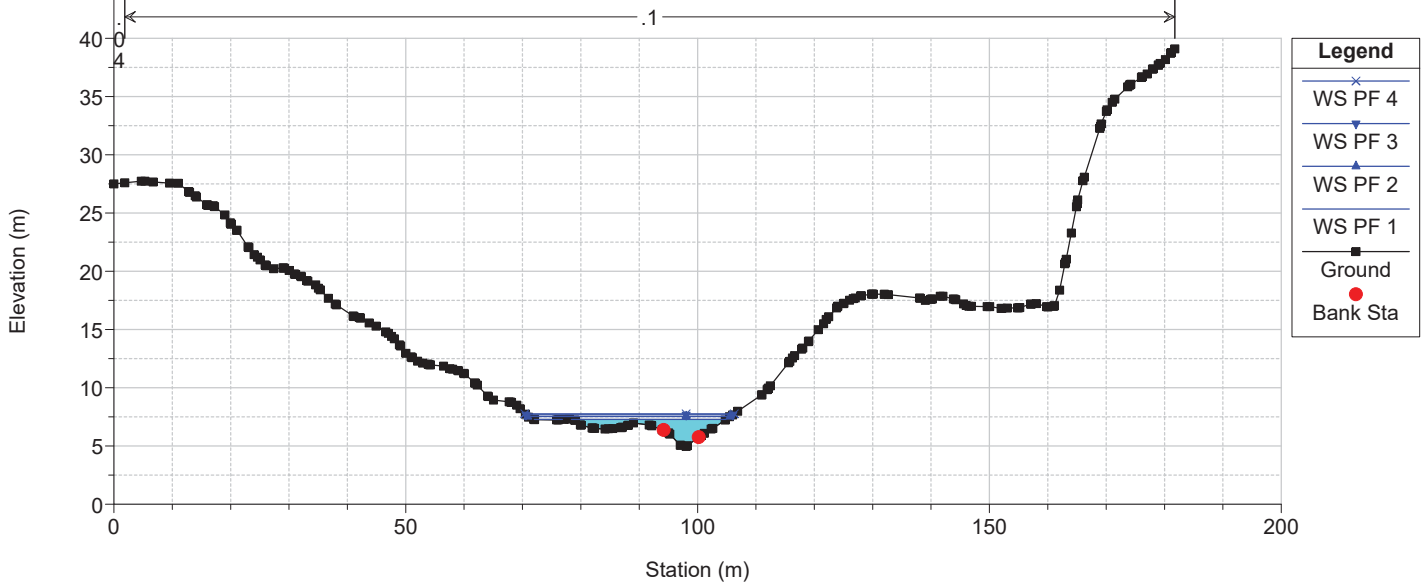
River = Rio Scamungia Reach = Asta 2 RS = 331.3708 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

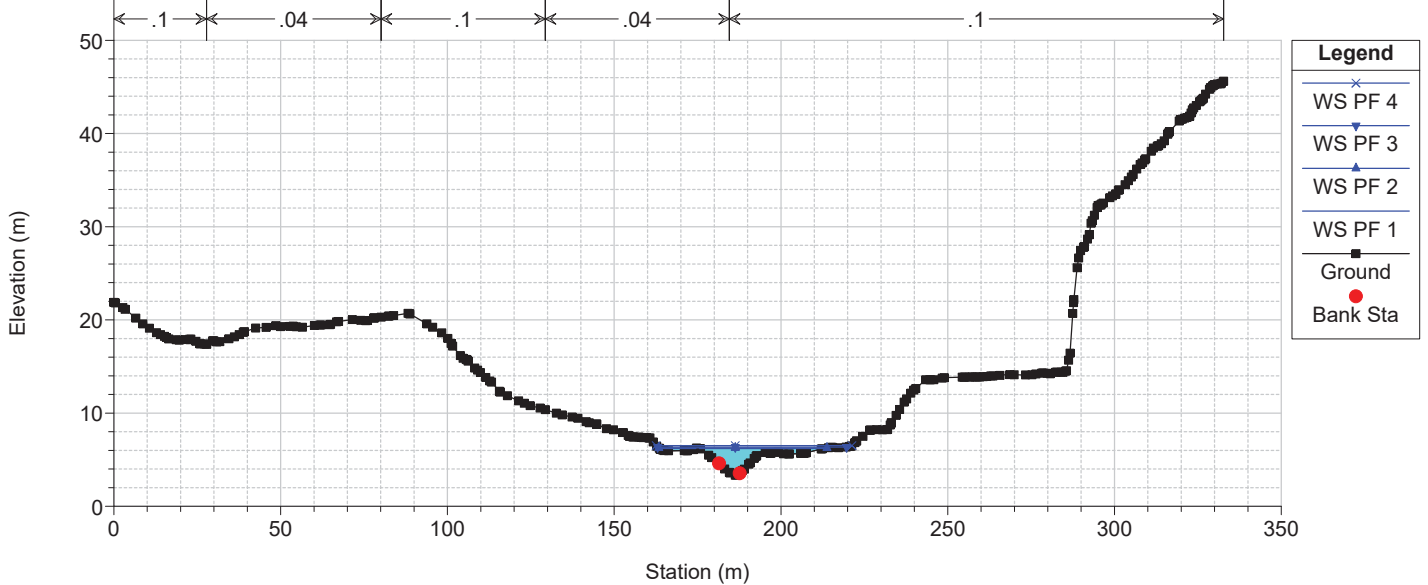
River = Rio Scamungia Reach = Asta 2 RS = 280.3926 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

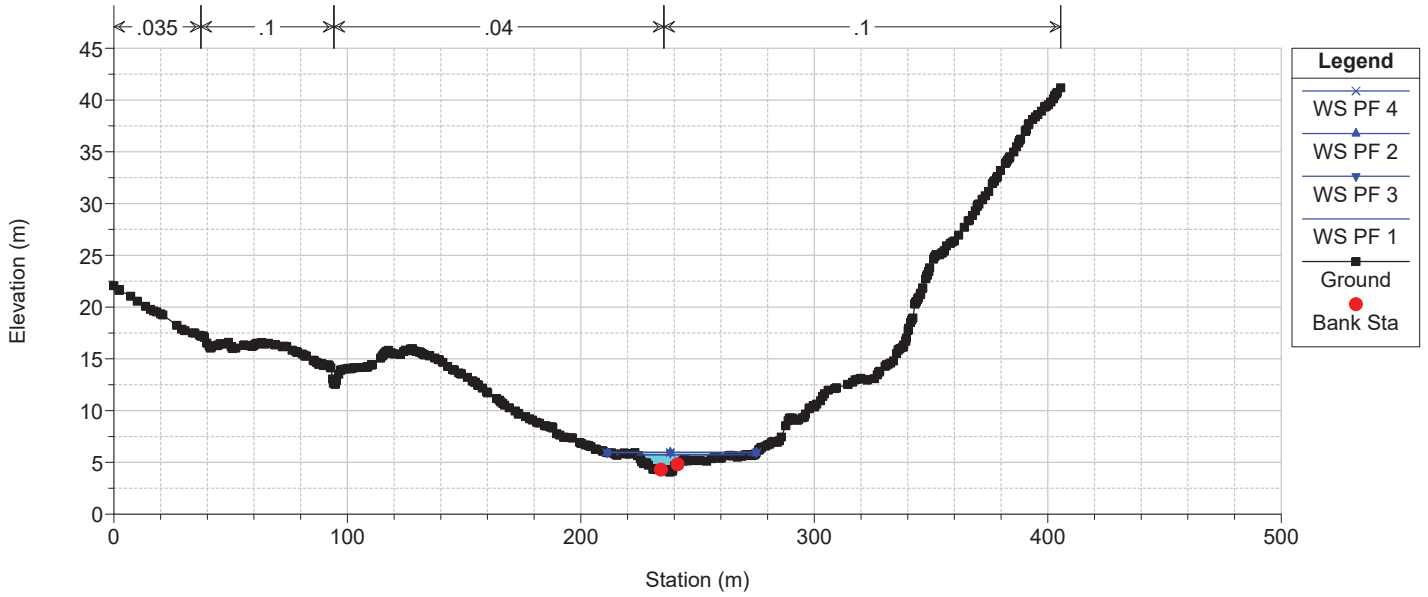
River = Rio Scamungia Reach = Asta 2 RS = 216.0257 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

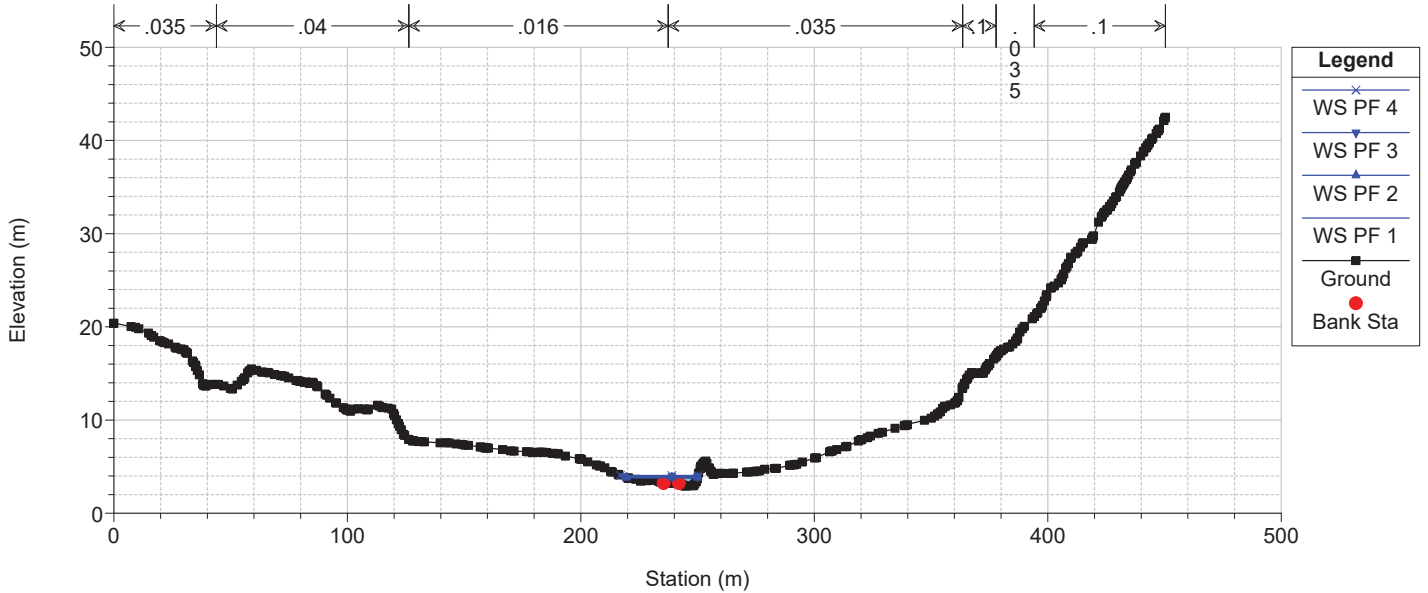
River = Rio Scamungia Reach = Asta 2 RS = 191.4055 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

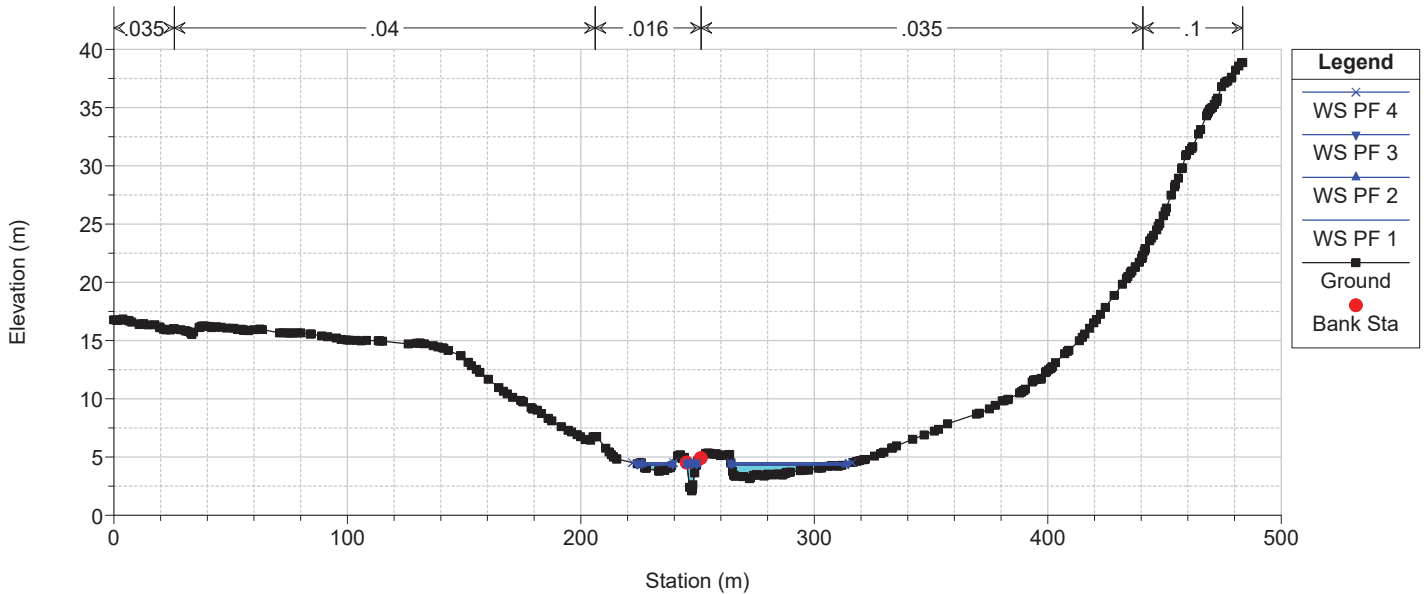
River = Rio Scamungia Reach = Asta 2 RS = 147.2035 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

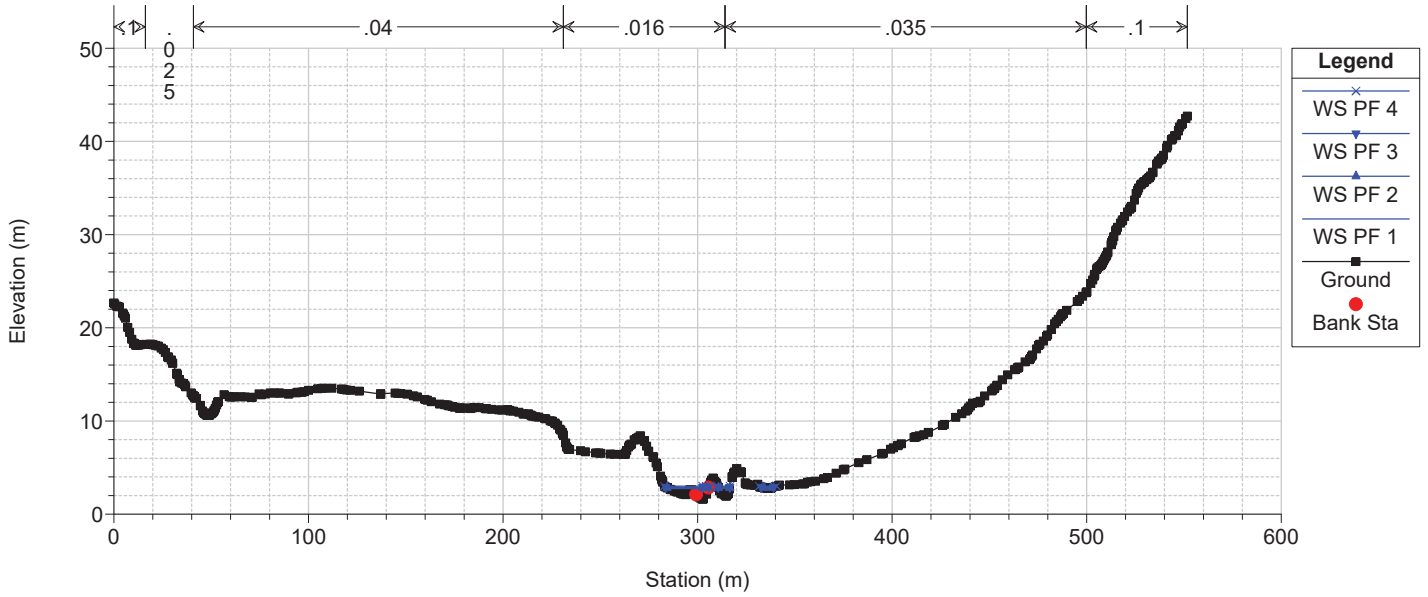
River = Rio Scamungia Reach = Asta 2 RS = 97.06301 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

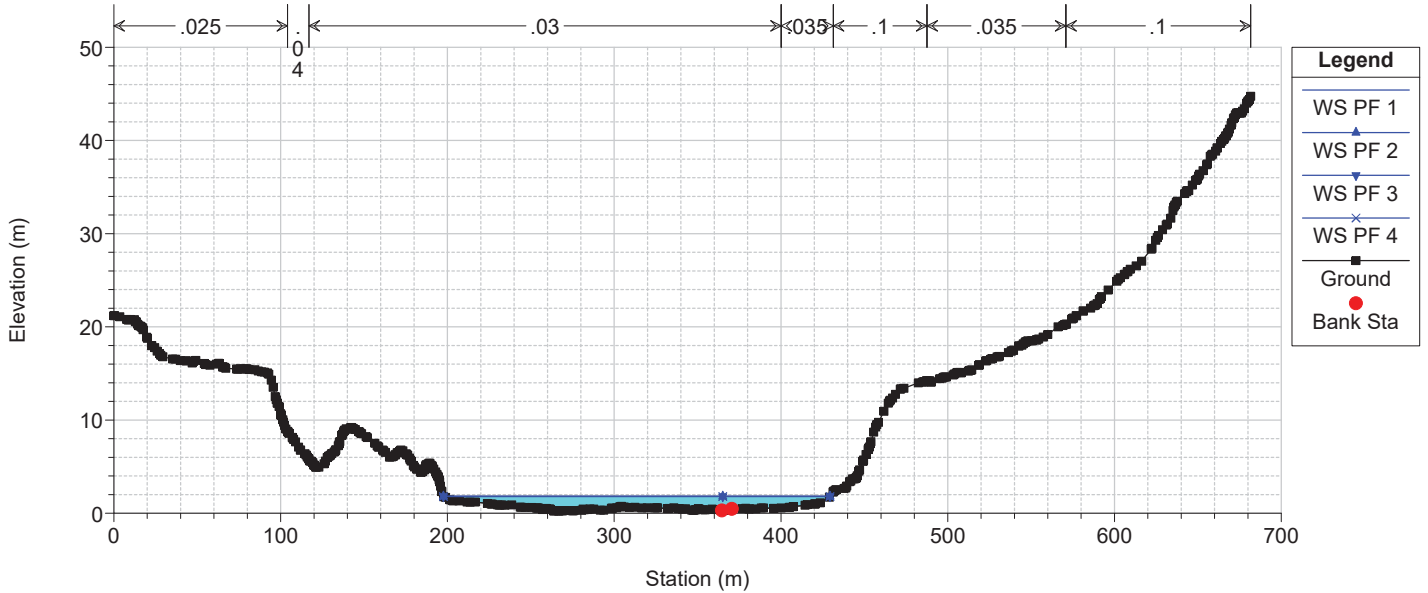
River = Rio Scamungia Reach = Asta 2 RS = 52.14715 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



scamunigada01082017 Plan: Plan 02 8/1/2017

Geom: scamunigada01082017_nb Flow: scamunigada01082017

River = Rio Scamungia Reach = Asta 2 RS = 7.07313 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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	PF 1	13.46	254.38	255.70	255.70	256.03	0.105334	2.66	5.47	8.22	0.94
Asta 1	2900	PF 2	15.82	254.38	255.79	255.79	256.14	0.103240	2.77	6.18	8.54	0.94
Asta 1	2900	PF 3	18.24	254.38	255.86	255.86	256.25	0.103095	2.89	6.83	8.76	0.94
Asta 1	2900	PF 4	21.63	254.38	255.97	255.97	256.38	0.100957	3.01	7.75	9.02	0.94
Asta 1	2850	PF 1	13.46	239.44	240.21	240.76	242.81	1.446426	7.39	1.95	4.50	3.30
Asta 1	2850	PF 2	15.82	239.44	240.26	240.86	243.10	1.448061	7.76	2.19	4.71	3.33
Asta 1	2850	PF 3	18.24	239.44	240.31	240.96	243.31	1.398640	7.99	2.46	4.91	3.31
Asta 1	2850	PF 4	21.63	239.44	240.38	241.09	243.65	1.392305	8.38	2.78	5.14	3.33
Asta 1	2800	PF 1	13.46	227.13	228.48	228.48	228.87	0.107654	2.78	5.02	6.92	0.96
Asta 1	2800	PF 2	15.82	227.13	228.57	228.59	228.99	0.108783	2.94	5.64	7.33	0.98
Asta 1	2800	PF 3	18.24	227.13	228.65	228.68	229.11	0.110469	3.08	6.23	7.71	1.00
Asta 1	2800	PF 4	21.63	227.13	228.75	228.80	229.26	0.111907	3.25	7.05	8.20	1.01
Asta 1	2750	PF 1	13.46	206.06	207.32	207.32	207.75	0.125899	2.92	4.61	5.38	1.01
Asta 1	2750	PF 2	15.82	206.06	207.42	207.42	207.89	0.123404	3.05	5.20	5.67	1.01
Asta 1	2750	PF 3	18.24	206.06	207.53	207.53	208.03	0.116824	3.13	5.84	5.99	0.99
Asta 1	2750	PF 4	21.63	206.06	206.75	207.67	212.73	3.304462	10.83	2.00	3.92	4.85
Asta 1	2708.437	PF 1	13.46	195.71	196.40	196.75	197.60	0.680986	4.02	2.81	6.30	2.16
Asta 1	2708.437	PF 2	15.82	195.71	196.45	196.82	197.78	0.702071	4.25	3.15	6.68	2.21
Asta 1	2708.437	PF 3	18.24	195.71	196.49	196.90	198.01	0.772554	4.58	3.38	6.94	2.34
Asta 1	2708.437	PF 4	21.63	195.71	196.99	197.00	197.41	0.117692	2.74	7.57	9.44	0.99
Asta 1	2642.76	PF 1	13.46	164.49	165.75	166.03	166.68	0.332717	4.29	3.14	3.86	1.52
Asta 1	2642.76	PF 2	15.82	164.49	165.86	166.16	166.86	0.325613	4.43	3.57	4.07	1.51
Asta 1	2642.76	PF 3	18.24	164.49	165.97	166.28	167.00	0.306527	4.49	4.06	4.29	1.47
Asta 1	2642.76	PF 4	21.63	164.49	165.34	166.43	173.41	4.429173	12.59	1.72	3.05	5.35
Asta 1	2600	PF 1	13.46	149.26	150.42	150.73	151.40	0.384935	4.38	3.07	4.52	1.70
Asta 1	2600	PF 2	15.82	149.26	150.49	150.83	151.58	0.393122	4.63	3.42	4.69	1.73
Asta 1	2600	PF 3	18.24	149.26	150.56	150.94	151.79	0.416750	4.92	3.71	4.82	1.79
Asta 1	2600	PF 4	21.63	149.26	150.96	151.07	151.66	0.162115	3.72	5.82	5.71	1.16
Asta 1	2550	PF 1	13.46	140.80	141.99	141.99	142.32	0.110352	2.76	5.39	7.67	0.92
Asta 1	2550	PF 2	15.82	140.80	142.06	142.06	142.44	0.111943	2.90	5.99	7.82	0.93
Asta 1	2550	PF 3	18.24	140.80	142.14	142.14	142.55	0.110584	3.00	6.63	7.92	0.93
Asta 1	2550	PF 4	21.63	140.80	142.08	142.24	142.75	0.200082	3.91	6.09	7.84	1.25
Asta 1	2500	PF 1	13.46	131.96	133.07	133.29	133.83	0.283741	3.84	3.50	5.22	1.49
Asta 1	2500	PF 2	15.82	131.96	133.16	133.40	133.98	0.273063	4.03	3.94	5.42	1.48
Asta 1	2500	PF 3	18.24	131.96	133.23	133.50	134.14	0.273194	4.24	4.33	5.60	1.49
Asta 1	2500	PF 4	21.63	131.96	133.52	133.63	134.19	0.145123	3.66	6.06	6.30	1.12
Asta 1	2450	PF 1	13.46	125.30	126.94	126.94	127.42	0.135343	3.06	4.41	4.78	1.00
Asta 1	2450	PF 2	15.82	125.30	127.06	127.06	127.58	0.129292	3.18	5.00	5.06	0.99
Asta 1	2450	PF 3	18.24	125.30	127.17	127.17	127.73	0.125721	3.30	5.58	5.32	0.99
Asta 1	2450	PF 4	21.63	125.30	127.33	127.33	127.92	0.118532	3.42	6.44	5.68	0.97
Asta 1	2400	PF 1	13.46	118.79	119.73	119.80	120.13	0.158001	2.90	4.85	7.98	1.15
Asta 1	2400	PF 2	15.82	118.79	119.79	119.88	120.25	0.168150	3.12	5.29	8.15	1.19
Asta 1	2400	PF 3	18.24	118.79	119.84	119.95	120.37	0.174742	3.31	5.75	8.32	1.23
Asta 1	2400	PF 4	21.63	118.79	119.91	120.05	120.52	0.190312	3.60	6.27	8.51	1.29
Asta 1	2357.536	PF 1	13.46	111.94	113.23	113.30	113.77	0.141659	3.27	4.22	5.03	1.08
Asta 1	2357.536	PF 2	15.82	111.94	113.36	113.43	113.92	0.132680	3.36	4.86	5.37	1.05
Asta 1	2357.536	PF 3	18.24	111.94	113.47	113.54	114.06	0.127351	3.46	5.48	5.67	1.04
Asta 1	2357.536	PF 4	21.63	111.94	113.62	113.68	114.24	0.118172	3.55	6.38	6.03	1.02
Asta 1	2295.796	PF 1	13.46	103.45	104.34	104.39	104.73	0.146768	2.89	4.92	7.87	1.11
Asta 1	2295.796	PF 2	15.82	103.45	104.40	104.47	104.85	0.158670	3.11	5.35	8.01	1.16
Asta 1	2295.796	PF 3	18.24	103.45	104.45	104.55	104.96	0.167393	3.32	5.78	8.14	1.20
Asta 1	2295.796	PF 4	21.63	103.45	104.51	104.65	105.12	0.184789	3.62	6.27	8.28	1.27
Asta 1	2250	PF 1	13.46	97.10	98.56	98.35	98.83	0.058378	2.27	6.03	6.46	0.72
Asta 1	2250	PF 2	15.82	97.10	98.67	98.46	98.96	0.059645	2.42	6.70	6.74	0.73
Asta 1	2250	PF 3	18.24	97.10	98.77	98.56	99.09	0.060363	2.54	7.39	7.01	0.74
Asta 1	2250	PF 4	21.63	97.10	98.90	98.69	99.26	0.060697	2.69	8.34	7.35	0.75
Asta 1	2204.436	PF 1	13.46	93.03	94.52	94.52	94.98	0.130849	3.01	4.48	4.94	1.01
Asta 1	2204.436	PF 2	15.82	93.03	94.63	94.63	95.13	0.125145	3.13	5.06	5.15	1.00
Asta 1	2204.436	PF 3	18.24	93.03	94.74	94.74	95.28	0.121490	3.25	5.63	5.37	1.00
Asta 1	2204.436	PF 4	21.63	93.03	94.88	94.88	95.47	0.118706	3.41	6.39	5.66	1.00
Asta 1	2151.663	PF 1	13.46	87.59	89.57	89.32	89.80	0.051931	2.13	6.55	7.02	0.66
Asta 1	2151.663	PF 2	15.82	87.59	89.69	89.43	89.93	0.051526	2.22	7.40	7.37	0.67
Asta 1	2151.663	PF 3	18.24	87.59	89.79	89.52	90.06	0.050734	2.33	8.17	7.67	0.67
Asta 1	2151.663	PF 4	21.63	87.59	89.92	89.64	90.22	0.050064	2.48	9.19	8.05	0.68
Asta 1	2126.361	PF 1	13.46	85.53	87.25	87.25	87.74	0.141264	3.11	4.33	4.50	1.01
Asta 1	2126.361	PF 2	15.82	85.53	87.37	87.37	87.90	0.138616	3.21	4.93	4.77	1.01
Asta 1	2126.361	PF 3	18.24	85.53	87.49	87.49	88.05	0.136687	3.31	5.52	5.05	1.01

HEC-RAS Plan: Plan 02 (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	2126.361	PF 4	21.63	85.53	87.65	87.65	88.24	0.133888	3.42	6.32	5.39	1.01
Asta 1	2100.489	PF 1	13.46	83.84	84.74	84.62	84.89	0.059691	1.88	7.85	13.59	0.73
Asta 1	2100.489	PF 2	15.82	83.84	84.81	84.68	84.98	0.057919	1.97	8.79	13.81	0.73
Asta 1	2100.489	PF 3	18.24	83.84	84.88	84.74	85.06	0.055973	2.06	9.74	14.02	0.73
Asta 1	2100.489	PF 4	21.63	83.84	84.96	84.80	85.17	0.054738	2.17	10.93	14.20	0.73
Asta 1	2066.17	PF 1	13.46	80.15	81.71	81.68	82.12	0.104869	2.87	4.84	5.76	0.92
Asta 1	2066.17	PF 2	15.82	80.15	81.81	81.80	82.26	0.103698	3.01	5.48	6.12	0.93
Asta 1	2066.17	PF 3	18.24	80.15	81.91	81.91	82.40	0.103555	3.14	6.09	6.42	0.94
Asta 1	2066.17	PF 4	21.63	80.15	82.05	82.05	82.57	0.100813	3.28	6.99	6.83	0.93
Asta 1	2001.156	PF 1	13.46	74.53	75.86	75.79	76.14	0.080206	2.32	5.93	8.90	0.84
Asta 1	2001.156	PF 2	15.82	74.53	75.93	75.88	76.24	0.081865	2.49	6.57	9.41	0.86
Asta 1	2001.156	PF 3	18.24	74.53	76.00	75.96	76.35	0.082809	2.63	7.23	9.92	0.88
Asta 1	2001.156	PF 4	21.63	74.53	76.09	76.06	76.48	0.082537	2.80	8.18	10.59	0.89
Asta 1	1954.079	PF 1	13.46	69.49	70.99	70.99	71.46	0.124962	3.04	4.45	4.89	1.00
Asta 1	1954.079	PF 2	15.82	69.49	71.11	71.11	71.62	0.119297	3.14	5.08	5.21	0.99
Asta 1	1954.079	PF 3	18.24	69.49	71.23	71.23	71.76	0.115247	3.24	5.70	5.50	0.98
Asta 1	1954.079	PF 4	21.63	69.49	71.37	71.37	71.95	0.112818	3.39	6.51	5.85	0.99
Asta 1	1894.868	PF 1	13.46	64.39	66.03	65.85	66.27	0.055146	2.20	6.38	8.05	0.71
Asta 1	1894.868	PF 2	15.82	64.39	66.14	65.94	66.40	0.051647	2.29	7.32	8.61	0.70
Asta 1	1894.868	PF 3	18.24	64.39	66.24	66.03	66.52	0.049222	2.38	8.25	9.12	0.69
Asta 1	1894.868	PF 4	21.63	64.39	66.36	66.16	66.67	0.048986	2.52	9.35	9.72	0.70
Asta 1	1868.65	PF 1	13.46	62.90	64.40	64.25	64.69	0.066405	2.52	5.82	6.47	0.75
Asta 1	1868.65	PF 2	15.82	62.90	64.51	64.36	64.84	0.069272	2.68	6.62	7.80	0.77
Asta 1	1868.65	PF 3	18.24	62.90	64.61	64.43	64.98	0.072071	2.84	7.50	9.73	0.79
Asta 1	1868.65	PF 4	21.63	62.90	64.71	64.71	65.11	0.074927	2.99	8.51	10.28	0.81
Asta 1	1850	PF 1	13.46	61.65	62.89	62.89	63.22	0.102416	2.64	5.44	8.16	0.95
Asta 1	1850	PF 2	15.82	61.65	62.97	62.97	63.33	0.103512	2.77	6.11	8.61	0.96
Asta 1	1850	PF 3	18.24	61.65	63.05	63.05	63.44	0.102582	2.91	6.77	9.08	0.97
Asta 1	1850	PF 4	21.63	61.65	63.15	63.16	63.58	0.098320	3.05	7.73	9.72	0.97
Asta 1	1821.607	PF 1	13.46	59.16	60.60	60.29	60.79	0.036794	1.96	7.35	10.90	0.59
Asta 1	1821.607	PF 2	15.82	59.16	60.69	60.40	60.90	0.038270	2.10	8.28	11.38	0.61
Asta 1	1821.607	PF 3	18.24	59.16	60.75	60.50	60.99	0.041091	2.25	9.04	11.77	0.64
Asta 1	1821.607	PF 4	21.63	59.16	60.85	60.67	61.12	0.042279	2.40	10.24	12.35	0.66
Asta 1	1797.1	PF 1	13.46	57.81	59.39	59.39	59.62	0.063341	2.28	7.27	17.34	0.73
Asta 1	1797.1	PF 2	15.82	57.81	59.46	59.46	59.70	0.063816	2.37	8.52	19.12	0.74
Asta 1	1797.1	PF 3	18.24	57.81	59.53	59.53	59.77	0.061792	2.41	9.92	20.97	0.73
Asta 1	1797.1	PF 4	21.63	57.81	59.60	59.60	59.85	0.063790	2.52	11.45	22.82	0.75
Asta 1	1777.653	PF 1	13.46	57.03	57.84	57.76	57.91	0.061687	1.47	11.86	39.35	0.68
Asta 1	1777.653	PF 2	15.82	57.03	57.89	57.80	57.96	0.052777	1.44	13.99	41.20	0.63
Asta 1	1777.653	PF 3	18.24	57.03	57.94	57.82	58.01	0.045173	1.40	16.24	42.69	0.59
Asta 1	1777.653	PF 4	21.63	57.03	57.99	57.86	58.07	0.049085	1.52	18.28	47.57	0.62
Asta 1	1750	PF 1	13.46	55.96	56.31		56.37	0.054134	0.89	12.51	41.63	0.58
Asta 1	1750	PF 2	15.82	55.96	56.32	56.25	56.40	0.065547	1.01	13.07	42.02	0.65
Asta 1	1750	PF 3	18.24	55.96	56.33	56.28	56.42	0.082119	1.15	13.33	42.30	0.73
Asta 1	1750	PF 4	21.63	55.96	56.37		56.48	0.073690	1.23	15.47	44.44	0.71
Asta 1	1720.582	PF 1	13.46	52.47	53.91	53.90	54.26	0.102517	2.70	5.33	7.61	0.94
Asta 1	1720.582	PF 2	15.82	52.47	54.08	54.08	54.37	0.074735	2.51	7.23	15.98	0.82
Asta 1	1720.582	PF 3	18.24	52.47	54.21	54.21	54.45	0.058065	2.35	9.74	23.08	0.74
Asta 1	1720.582	PF 4	21.63	52.47	54.27	54.27	54.53	0.062190	2.47	11.34	25.94	0.76
Asta 1	1700	PF 1	13.46	51.38	52.80	52.60	52.97	0.039370	1.94	8.36	15.76	0.62
Asta 1	1700	PF 2	15.82	51.38	52.86	52.74	53.05	0.040548	2.06	9.48	17.15	0.63
Asta 1	1700	PF 3	18.24	51.38	52.93	52.81	53.13	0.040996	2.15	10.73	20.89	0.64
Asta 1	1700	PF 4	21.63	51.38	52.90	52.92	53.21	0.065762	2.67	10.09	19.01	0.81
Asta 1	1669.545	PF 1	13.46	49.73	50.83	50.83	51.14	0.099306	2.55	5.74	9.91	0.94
Asta 1	1669.545	PF 2	15.82	49.73	50.92	50.92	51.25	0.092777	2.65	6.59	10.60	0.92
Asta 1	1669.545	PF 3	18.24	49.73	50.99	50.99	51.34	0.088799	2.74	7.43	11.23	0.91
Asta 1	1669.545	PF 4	21.63	49.73	51.21	51.22	51.45	0.050176	2.37	12.17	35.06	0.71
Asta 1	1650	PF 1	13.46	49.06	49.61	49.69	49.89	0.043094	0.92	6.28	23.39	0.53
Asta 1	1650	PF 2	15.82	49.06	49.63	49.76	49.97	0.047244	1.00	6.76	23.94	0.56
Asta 1	1650	PF 3	18.24	49.06	49.65	49.80	50.04	0.050221	1.06	7.27	24.49	0.58
Asta 1	1650	PF 4	21.63	49.06	49.65	49.84	50.21	0.074838	1.29	7.13	24.35	0.71
Asta 1	1589.547	PF 1	13.46	45.31	45.66	45.81	46.12	0.097148	0.96	4.81	24.28	0.73
Asta 1	1589.547	PF 2	15.82	45.31	45.69	45.84	46.16	0.087009	0.96	5.58	25.33	0.70
Asta 1	1589.547	PF 3	18.24	45.31	45.72	45.89	46.21	0.081535	0.99	6.31	26.50	0.69
Asta 1	1589.547	PF 4	21.63	45.31	45.78	45.92	46.20	0.057864	0.96	8.06	29.70	0.60
Asta 1	1550	PF 1	13.46	43.61	43.37	43.44	43.63	0.040948		5.94	23.84	0.00

HEC-RAS Plan: Plan 02 (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	1550	PF 2	15.82	43.61	43.39	43.48	43.70	0.043808		6.45	24.14	0.00
Asta 1	1550	PF 3	18.24	43.61	43.42	43.52	43.76	0.045567		6.98	24.44	0.00
Asta 1	1550	PF 4	21.63	43.61	43.43	43.56	43.88	0.057410		7.23	24.58	0.00
Asta 1	1506.602	PF 1	13.46	40.99	41.58	41.42	41.62	0.011673	0.50	14.98	46.22	0.28
Asta 1	1506.602	PF 2	15.82	40.99	41.61	41.46	41.66	0.011655	0.53	16.51	47.39	0.28
Asta 1	1506.602	PF 3	18.24	40.99	41.64	41.48	41.69	0.011900	0.52	17.97	49.31	0.28
Asta 1	1506.602	PF 4	21.63	40.99	41.68	41.53	41.74	0.011903	0.52	20.07	52.93	0.28
Asta 1	1468.003	PF 1	13.46	39.68	40.79	40.79	40.89	0.048161	1.66	10.34	45.54	0.62
Asta 1	1468.003	PF 2	15.82	39.68	40.82	40.82	40.92	0.050775	1.62	11.49	48.09	0.64
Asta 1	1468.003	PF 3	18.24	39.68	40.85	40.82	40.95	0.050164	1.55	13.01	51.32	0.63
Asta 1	1468.003	PF 4	21.63	39.68	40.87	40.86	40.99	0.051872	1.53	14.52	61.43	0.64
Asta 1	1446.65	PF 1	13.46	39.18	39.60	39.61	39.74	0.049456	1.08	8.44	31.11	0.59
Asta 1	1446.65	PF 2	15.82	39.18	39.62	39.64	39.79	0.054180	1.18	9.25	32.72	0.63
Asta 1	1446.65	PF 3	18.24	39.18	39.67	39.67	39.83	0.045220	1.18	10.97	35.63	0.58
Asta 1	1446.65	PF 4	21.63	39.18	39.72	39.72	39.88	0.042720	1.23	12.59	37.86	0.58
Asta 1	1403.097	PF 1	13.46	37.46	32.59	32.59	32.75	0.018422		7.66	24.84	0.00
Asta 1	1403.097	PF 2	15.82	37.46	32.63	32.63	32.80	0.017887		8.61	25.50	0.00
Asta 1	1403.097	PF 3	18.24	37.46	32.66	32.66	32.85	0.017451		9.53	26.00	0.00
Asta 1	1403.097	PF 4	21.63	37.46	32.71	32.71	32.91	0.016775		10.79	26.60	0.00
Asta 1	1354.159	PF 1	13.46	35.95	32.27	26.62	32.27	0.000000		266.63	60.98	0.00
Asta 1	1354.159	PF 2	15.82	35.95	32.32	26.66	32.32	0.000001		269.67	61.18	0.00
Asta 1	1354.159	PF 3	18.24	35.95	32.37	26.71	32.37	0.000001		272.60	61.41	0.00
Asta 1	1354.159	PF 4	21.63	35.95	32.43	26.78	32.43	0.000001		276.41	61.67	0.00
Asta 1	1302.055	PF 1	13.46	33.70	32.11	32.11	32.26	0.018834		7.93	27.80	0.00
Asta 1	1302.055	PF 2	15.82	33.70	32.15	32.15	32.31	0.018240		8.93	28.65	0.00
Asta 1	1302.055	PF 3	18.24	33.70	32.18	32.18	32.35	0.017867		9.90	29.45	0.00
Asta 1	1302.055	PF 4	21.63	33.70	32.23	32.23	32.42	0.017291		11.23	30.52	0.00
Asta 1	1250	PF 1	13.46	31.33	27.02	27.02	27.29	0.017033		5.84	11.02	0.00
Asta 1	1250	PF 2	15.82	31.33	27.09	27.09	27.38	0.016635		6.63	11.67	0.00
Asta 1	1250	PF 3	18.24	31.33	27.16	27.16	27.46	0.015989		7.47	12.32	0.00
Asta 1	1250	PF 4	21.63	31.33	27.24	27.24	27.57	0.015929		8.49	13.06	0.00
Asta 1	1196.73	PF 1	13.46	29.20	25.24	25.02	25.34	0.007172		9.52	16.27	0.00
Asta 1	1196.73	PF 2	15.82	29.20	25.33	25.07	25.44	0.006365		11.11	17.13	0.00
Asta 1	1196.73	PF 3	18.24	29.20	25.42	25.13	25.53	0.005747		12.67	17.76	0.00
Asta 1	1196.73	PF 4	21.63	29.20	25.54	25.21	25.65	0.005099		14.84	18.61	0.00
Asta 1	1145.341	PF 1	13.46	28.65	25.02		25.09	0.003273		11.12	12.45	0.00
Asta 1	1145.341	PF 2	15.82	28.65	25.11		25.20	0.003360		12.37	12.97	0.00
Asta 1	1145.341	PF 3	18.24	28.65	25.21		25.30	0.003440		13.59	13.46	0.00
Asta 1	1145.341	PF 4	21.63	28.65	25.33		25.43	0.003565		15.26	14.32	0.00
Asta 1	1100	PF 1	13.46	26.31	24.72		24.87	0.007979		7.96	10.50	0.00
Asta 1	1100	PF 2	15.82	26.31	24.80		24.97	0.008228		8.83	10.91	0.00
Asta 1	1100	PF 3	18.24	26.31	24.88		25.06	0.008423		9.70	11.31	0.00
Asta 1	1100	PF 4	21.63	26.31	24.99		25.19	0.008564		10.89	11.84	0.00
Asta 1	1050	PF 1	13.46	25.05	23.99	23.99	24.28	0.022443		5.61	9.74	0.00
Asta 1	1050	PF 2	15.82	25.05	24.07	24.07	24.38	0.021702		6.40	10.33	0.00
Asta 1	1050	PF 3	18.24	25.05	24.14	24.14	24.47	0.021158		7.18	10.91	0.00
Asta 1	1050	PF 4	21.63	25.05	24.23	24.23	24.59	0.021199		8.14	11.57	0.00
Asta 1	1000	PF 1	22.51	22.70	22.83	22.84	23.08	0.023423	0.63	10.12	22.59	0.75
Asta 1	1000	PF 2	26.72	22.70	22.88	22.92	23.17	0.024457	0.80	11.34	23.84	0.81
Asta 1	1000	PF 3	31.04	22.70	22.93	22.98	23.25	0.025376	0.96	12.52	24.98	0.85
Asta 1	1000	PF 4	36.99	22.70	23.00	23.05	23.35	0.025966	1.12	14.18	26.52	0.89
Asta 1	950	PF 1	22.51	21.48	21.25	21.35	21.64	0.035973		8.14	21.13	0.00
Asta 1	950	PF 2	26.72	21.48	21.30	21.42	21.72	0.033842		9.22	21.24	0.00
Asta 1	950	PF 3	31.04	21.48	21.35	21.48	21.81	0.032078		10.28	21.49	0.00
Asta 1	950	PF 4	36.99	21.48	21.41	21.55	21.92	0.030680		11.66	22.75	0.00
Asta 1	899.9999	PF 1	22.51	19.72	20.90	20.90	21.00	0.010296	2.01	18.30	75.80	0.75
Asta 1	899.9999	PF 2	26.72	19.72	20.93	20.93	21.04	0.011486	2.15	20.28	78.40	0.79
Asta 1	899.9999	PF 3	31.04	19.72	20.95	20.95	21.08	0.013028	2.31	22.09	80.49	0.84
Asta 1	899.9999	PF 4	36.99	19.72	21.00	20.99	21.13	0.012419	2.31	26.02	83.36	0.83
Asta 1	851.7595	PF 1	22.51	17.78	18.91	19.31	19.91	0.062326	4.77	5.26	11.20	1.87
Asta 1	851.7595	PF 2	26.72	17.78	19.02	19.36	19.94	0.051700	4.62	6.50	12.47	1.74
Asta 1	851.7595	PF 3	31.04	17.78	19.11	19.42	19.96	0.044097	4.50	7.98	20.36	1.63
Asta 1	851.7595	PF 4	36.99	17.78	19.19	19.46	20.02	0.042117	4.64	10.05	35.73	1.62
Asta 1	802.1884	PF 1	22.51	17.54	18.22	18.22	18.37	0.018244	1.52	13.50	46.05	0.93
Asta 1	802.1884	PF 2	26.72	17.54	18.26	18.26	18.42	0.017625	1.60	15.34	46.77	0.92
Asta 1	802.1884	PF 3	31.04	17.54	18.28	18.30	18.48	0.020387	1.78	16.15	47.06	0.99
Asta 1	802.1884	PF 4	36.99	17.54	18.34	18.34	18.54	0.017637	1.83	19.04	48.08	0.94

HEC-RAS Plan: Plan 02 (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	751.9952	PF 1	22.51	15.24	16.83	17.09	17.45	0.016680	3.54	7.01	13.88	1.13
Asta 1	751.9952	PF 2	26.72	15.24	16.96	17.21	17.57	0.014681	3.59	9.08	23.61	1.08
Asta 1	751.9952	PF 3	31.04	15.24	17.05	17.27	17.62	0.013281	3.59	11.42	30.23	1.04
Asta 1	751.9952	PF 4	36.99	15.24	17.13	17.34	17.73	0.013520	3.78	14.13	36.18	1.06
Asta 1	700.7482	PF 1	22.51	14.77	15.58	15.78	16.18	0.039932	3.93	7.58	26.08	1.57
Asta 1	700.7482	PF 2	26.72	14.77	15.61	15.82	16.32	0.046651	4.35	8.23	27.15	1.71
Asta 1	700.7482	PF 3	31.04	14.77	15.64	15.88	16.42	0.048966	4.60	9.17	28.58	1.76
Asta 1	700.7482	PF 4	36.99	14.77	15.69	15.93	16.51	0.049028	4.81	10.62	30.67	1.78
Asta 1	653.0841	PF 1	22.51	13.41	14.52	14.60	14.78	0.019700	2.80	12.51	52.55	1.05
Asta 1	653.0841	PF 2	26.72	13.41	14.56	14.64	14.82	0.019318	2.88	14.69	55.42	1.05
Asta 1	653.0841	PF 3	31.04	13.41	14.59	14.67	14.86	0.019661	2.98	16.48	56.28	1.06
Asta 1	653.0841	PF 4	36.99	13.41	14.63	14.70	14.92	0.020357	3.12	18.55	56.90	1.09
Asta 1	608.2032	PF 1	22.51	13.03	13.58	13.63	13.80	0.023497	2.33	11.64	46.78	1.14
Asta 1	608.2032	PF 2	26.72	13.03	13.61	13.67	13.86	0.023519	2.46	13.26	49.23	1.15
Asta 1	608.2032	PF 3	31.04	13.03	13.65	13.72	13.91	0.022823	2.54	15.01	51.40	1.15
Asta 1	608.2032	PF 4	36.99	13.03	13.69	13.76	13.97	0.021692	2.63	17.46	54.62	1.14
Asta 1	557.7609	PF 1	22.51	11.99	12.32	12.34	12.48	0.029431	1.83	12.59	50.61	1.11
Asta 1	557.7609	PF 2	26.72	11.99	12.34	12.37	12.53	0.029580	1.95	13.98	50.99	1.13
Asta 1	557.7609	PF 3	31.04	11.99	12.37	12.40	12.58	0.030807	2.09	15.16	51.38	1.16
Asta 1	557.7609	PF 4	36.99	11.99	12.39	12.45	12.65	0.032703	2.27	16.62	51.88	1.21
Asta 1	527.76	PF 1	22.51	10.38	11.41	11.47	11.65	0.024975	2.73	11.55	37.63	1.15
Asta 1	527.76	PF 2	26.72	10.38	11.45	11.51	11.71	0.024569	2.83	13.01	37.85	1.15
Asta 1	527.76	PF 3	31.04	10.38	11.49	11.53	11.76	0.023622	2.90	14.54	38.05	1.14
Asta 1	527.76	PF 4	36.99	10.38	11.55	11.62	11.83	0.022496	2.98	16.54	38.29	1.13
Asta 1	497.872	PF 1	22.51	10.23	10.64	10.67	10.84	0.030648	1.36	11.38	38.21	1.07
Asta 1	497.872	PF 2	26.72	10.23	10.67	10.71	10.91	0.030952	1.51	12.61	38.68	1.14
Asta 1	497.872	PF 3	31.04	10.23	10.70	10.75	10.97	0.032306	1.65	13.66	39.08	1.20
Asta 1	497.872	PF 4	36.99	10.23	10.74	10.80	11.05	0.033172	1.81	15.11	39.61	1.26
Asta 2	441.9154	PF 1	59.83	9.25	9.64	10.01	11.08	0.120751	3.81	15.72	41.45	2.49
Asta 2	441.9154	PF 2	71.39	9.25	9.71	10.10	11.14	0.104612	4.20	18.60	42.14	2.41
Asta 2	441.9154	PF 3	83.16	9.25	9.78	10.20	11.21	0.091772	4.50	21.51	42.77	2.34
Asta 2	441.9154	PF 4	99.10	9.25	9.87	10.28	11.29	0.077507	4.79	25.54	43.47	2.23
Asta 2	406.1731	PF 1	59.83	8.87	9.43	9.29	9.64	0.054043	1.19	30.58	41.18	0.63
Asta 2	406.1731	PF 2	71.39	8.87	9.56	9.37	9.77	0.046583	1.36	36.20	42.44	0.61
Asta 2	406.1731	PF 3	83.16	8.87	9.69	9.45	9.90	0.041869	1.49	41.47	43.43	0.60
Asta 2	406.1731	PF 4	99.10	8.87	9.84	9.54	10.06	0.037507	1.63	48.22	44.53	0.59
Asta 2	363.3358	PF 1	59.83	5.83	8.78		8.86	0.008265	1.68	53.65	45.73	0.33
Asta 2	363.3358	PF 2	71.39	5.83	8.92		9.01	0.008616	1.78	60.14	47.00	0.34
Asta 2	363.3358	PF 3	83.16	5.83	9.06		9.16	0.008687	1.85	66.92	48.20	0.35
Asta 2	363.3358	PF 4	99.10	5.83	9.25		9.36	0.008478	1.91	76.24	49.35	0.35
Asta 2	331.3708	PF 1	59.83	5.98	8.54		8.61	0.007586	1.46	53.08	37.51	0.31
Asta 2	331.3708	PF 2	71.39	5.98	8.65		8.74	0.008531	1.61	57.40	37.99	0.33
Asta 2	331.3708	PF 3	83.16	5.98	8.78		8.88	0.009014	1.71	62.37	38.54	0.34
Asta 2	331.3708	PF 4	99.10	5.98	8.96		9.08	0.009232	1.81	69.52	39.32	0.35
Asta 2	280.3926	PF 1	59.83	4.96	7.27	7.25	7.72	0.062331	3.48	23.41	31.30	0.84
Asta 2	280.3926	PF 2	71.39	4.96	7.53	7.49	7.88	0.043330	3.18	32.19	34.67	0.71
Asta 2	280.3926	PF 3	83.16	4.96	7.67		8.01	0.040012	3.19	37.05	35.44	0.69
Asta 2	280.3926	PF 4	99.10	4.96	7.77		8.16	0.044507	3.46	40.41	35.88	0.74
Asta 2	216.0257	PF 1	59.83	3.33	6.20	5.55	6.40	0.009291	2.34	39.88	48.30	0.48
Asta 2	216.0257	PF 2	71.39	3.33	6.26	5.69	6.51	0.012178	2.72	42.62	50.39	0.55
Asta 2	216.0257	PF 3	83.16	3.33	6.36	5.76	6.63	0.012987	2.88	47.80	56.60	0.57
Asta 2	216.0257	PF 4	99.10	3.33	6.50	6.33	6.77	0.012154	2.89	56.07	58.70	0.56
Asta 2	191.4055	PF 1	59.83	4.07	5.73	5.73	6.08	0.017091	2.05	31.11	49.84	0.56
Asta 2	191.4055	PF 2	71.39	4.07	5.95	5.95	6.15	0.015935	2.19	43.91	63.93	0.55
Asta 2	191.4055	PF 3	83.16	4.07	5.95	5.95	6.22	0.021650	2.55	43.89	63.93	0.64
Asta 2	191.4055	PF 4	99.10	4.07	5.99	5.99	6.33	0.026864	2.88	46.06	64.55	0.72
Asta 2	147.2035	PF 1	59.83	3.19	3.79	4.11	4.87	0.036974	4.72	13.01	29.81	2.11
Asta 2	147.2035	PF 2	71.39	3.19	3.83	4.21	5.13	0.039500	5.14	14.23	30.34	2.21
Asta 2	147.2035	PF 3	83.16	3.19	3.95	4.33	5.09	0.026002	4.73	17.84	31.85	1.85
Asta 2	147.2035	PF 4	99.10	3.19	4.05	4.45	5.22	0.021205	4.71	21.22	33.20	1.71
Asta 2	97.06301	PF 1	59.83	2.10	4.30	4.30	4.54	0.003701	3.38	37.65	64.16	0.95
Asta 2	97.06301	PF 2	71.39	2.10	4.37	4.36	4.62	0.003911	3.52	41.96	66.14	0.98
Asta 2	97.06301	PF 3	83.16	2.10	4.43	4.43	4.70	0.004181	3.67	45.72	68.18	1.01
Asta 2	97.06301	PF 4	99.10	2.10	4.51	4.51	4.80	0.004165	3.73	52.05	73.93	1.02
Asta 2	52.14715	PF 1	59.83	1.60	2.74	3.12	4.13	0.014030	6.31	12.91	25.88	2.21
Asta 2	52.14715	PF 2	71.39	1.60	2.83	3.25	4.21	0.012909	6.36	15.23	30.80	2.15

HEC-RAS Plan: Plan 02 (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	52.14715	PF 3	83.16	1.60	2.91	3.34	4.30	0.011871	6.43	17.79	34.48	2.09
Asta 2	52.14715	PF 4	99.10	1.60	3.00	3.42	4.40	0.010737	6.52	21.35	38.14	2.02
Asta 2	7.07313	PF 1	59.83	0.29	1.80	0.72	1.80	0.000039	0.27	265.15	231.78	0.07
Asta 2	7.07313	PF 2	71.39	0.29	1.80	0.75	1.80	0.000055	0.32	265.15	231.78	0.08
Asta 2	7.07313	PF 3	83.16	0.29	1.80	0.78	1.81	0.000075	0.37	265.15	231.78	0.10
Asta 2	7.07313	PF 4	99.10	0.29	1.80	0.82	1.81	0.000106	0.45	265.15	231.78	0.12