



REGIONE AUTONOMA DELLA SARDEGNA



COMUNE DI SASSARI

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**STUDIO DI ASSETTO IDRAULICO DEL
TERRITORIO COMUNALE
VARIANTE AL PAI
ai sensi dell'Art. 37 c. 3 delle N.A.
Aggiornamento a seguito di prescrizioni
(prot. n. 12928 del 30.12.2020)**

DATA: Febbraio 2021	SCALA:	REV: 0	ALLEGATO:
ELABORATO: Simulazioni in moto permanente (ARGENTIERA - PORTO PALMAS - SA PEDRAIA)			C-5
TECNICO INCARICATO: Dott. Ing. Alessia Vargiu  ORDINE INGEGNERI PROVINCIA CAGLIARI N. 3934 Dott. Ing. ALESSIA VARGIU			COLLABORATORI: Dott. Ing. Pier Franco Azzena Dott. Ing. Michela Cardia Geom. Luisa Antonetti CONSULENTI: Dott. Ing. Fabio Cambula Dott. Ing. Marco Pani Dott. Ing. Silvia Pisano
DIRIGENTE SETTORE PIANIFICAZIONE TERRITORIALE, PAESAGGIO E SVILUPPO TURISTICO Dott. Ing. Giovanni Antonio Pisoni			

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Il presente elaborato contiene i seguenti modelli:

20. Argentiera

21. Porto Palmas

22. Sa Pedraia

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

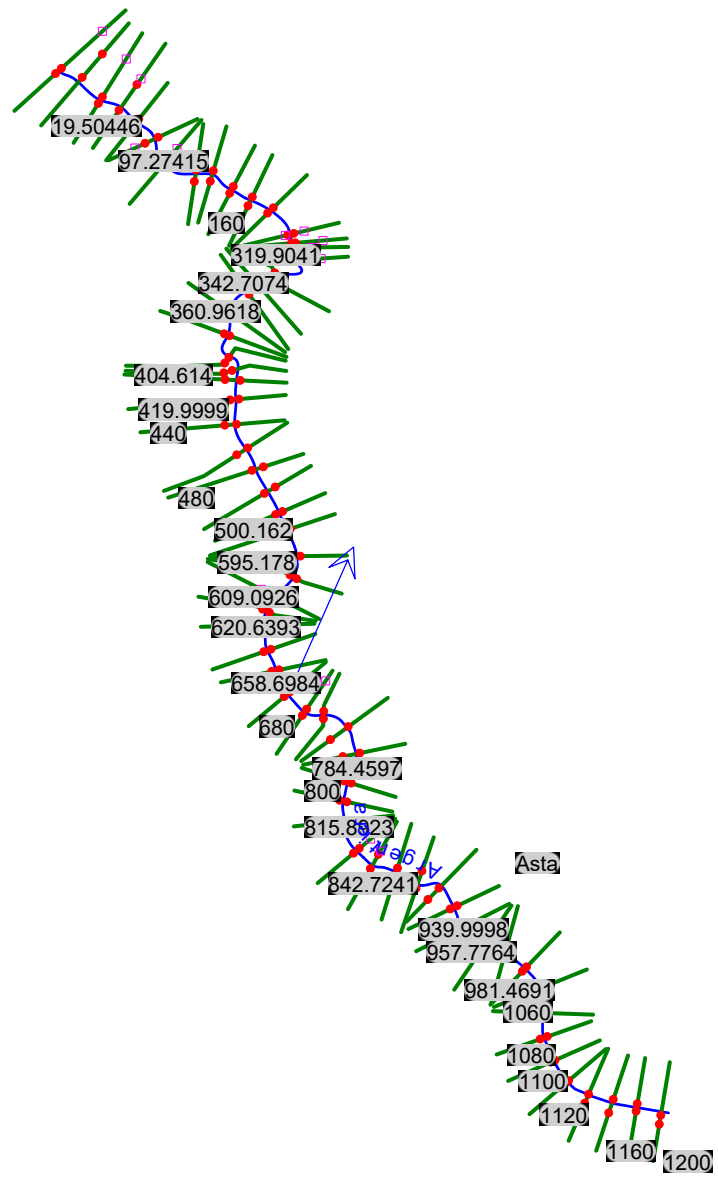
SIMULAZIONI IN MOTO PERMANENTE

Modello 20 : Argentiera

- 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 tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per tempi di ritorno 50, 100, 200 e 500 anni;
- Calcolo della portata critica;
- Profilo longitudinale del livello idrico per il tempo di ritorno critico TC;
- Verifica dei franchi idraulici e della portata critica;

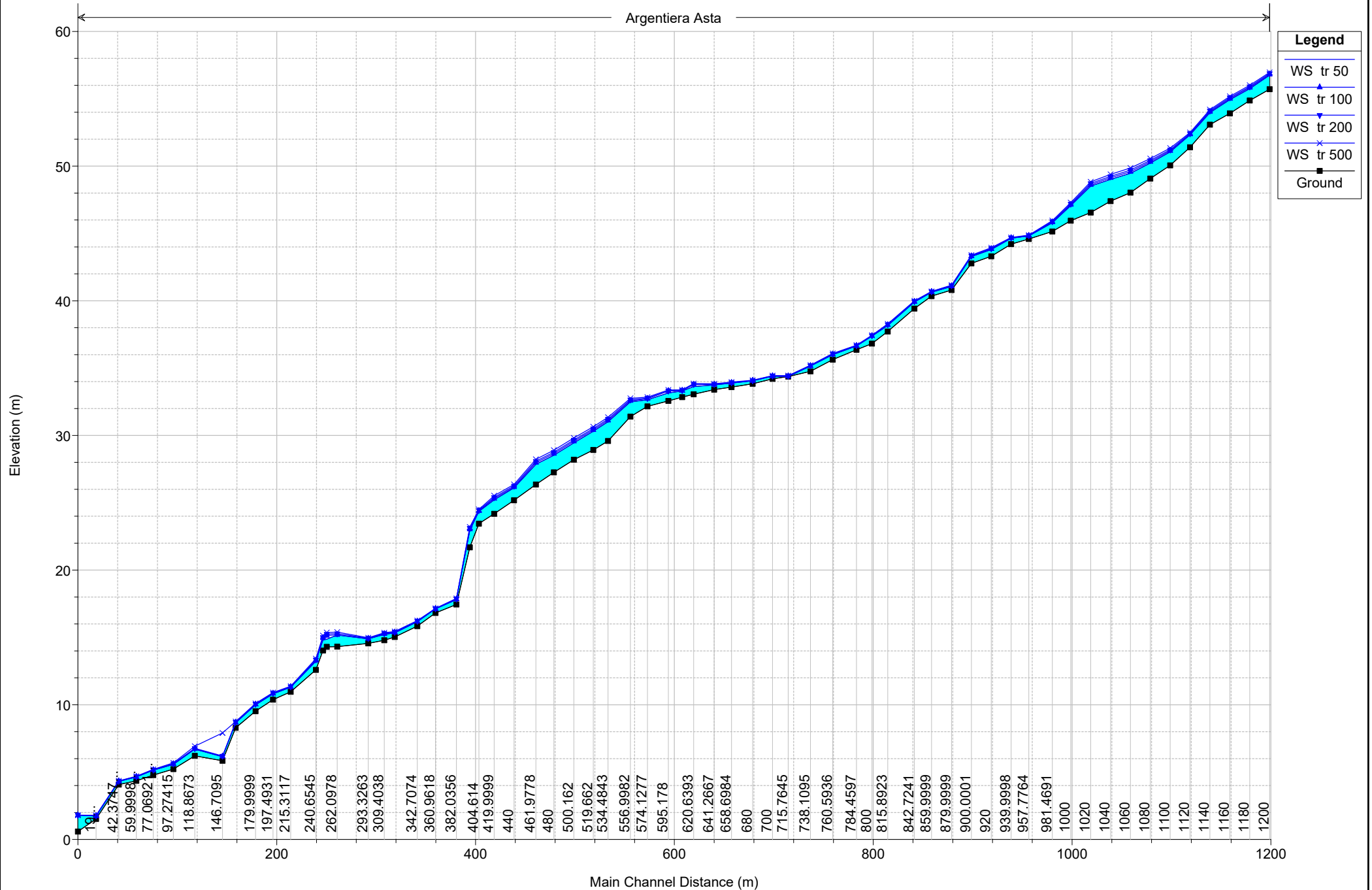
River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
Argentiera	Asta	1200	13.696	16.047	18.486	21.977
Argentiera	Asta	1080	17.866	21.046	24.332	28.984
Argentiera	Asta	342.7074	20.432	24.137	27.957	33.333

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Argentiera	Asta	all	Normal Depth $S = 0.062$	Known WS



argentiera27092016 Plan: Plan 01 11/02/2021

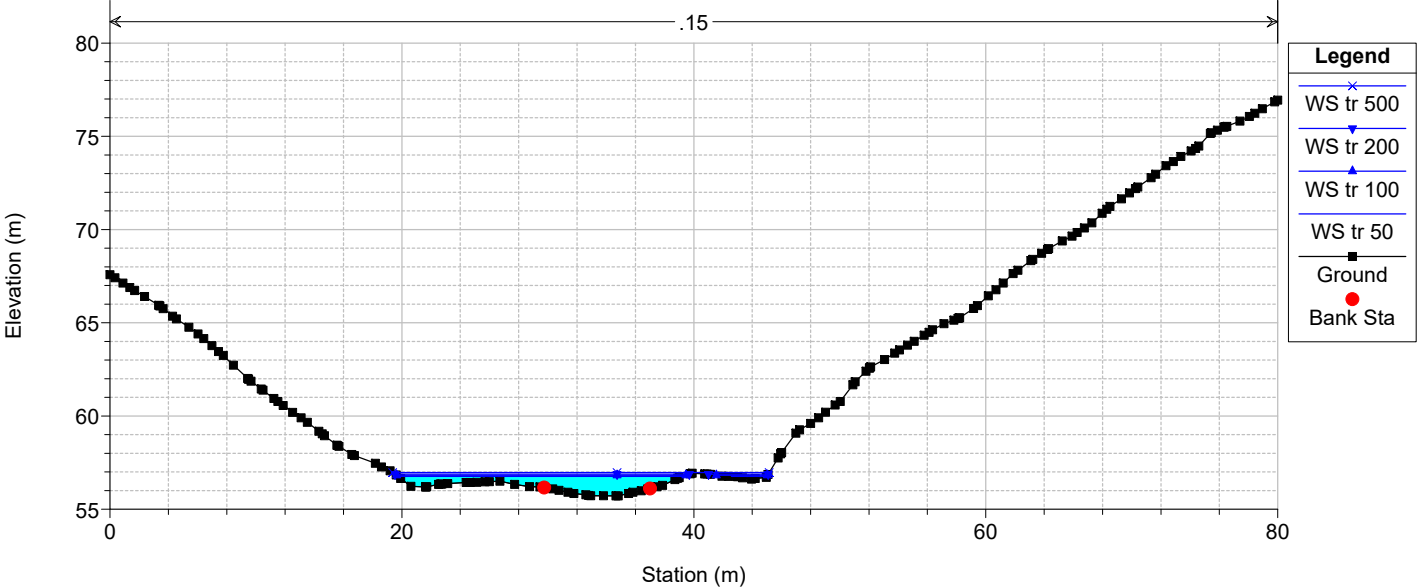
Geom: argentiera27092016 Flow: argentiera27092016 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

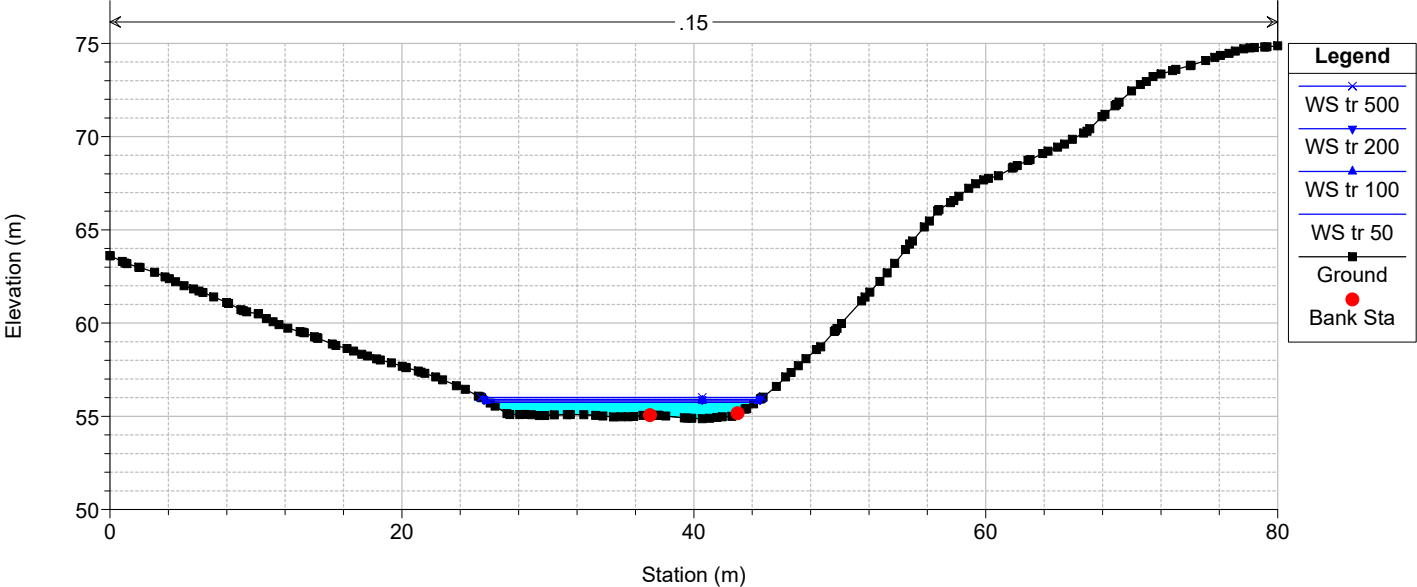
River = Argentiera Reach = Asta RS = 1200 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

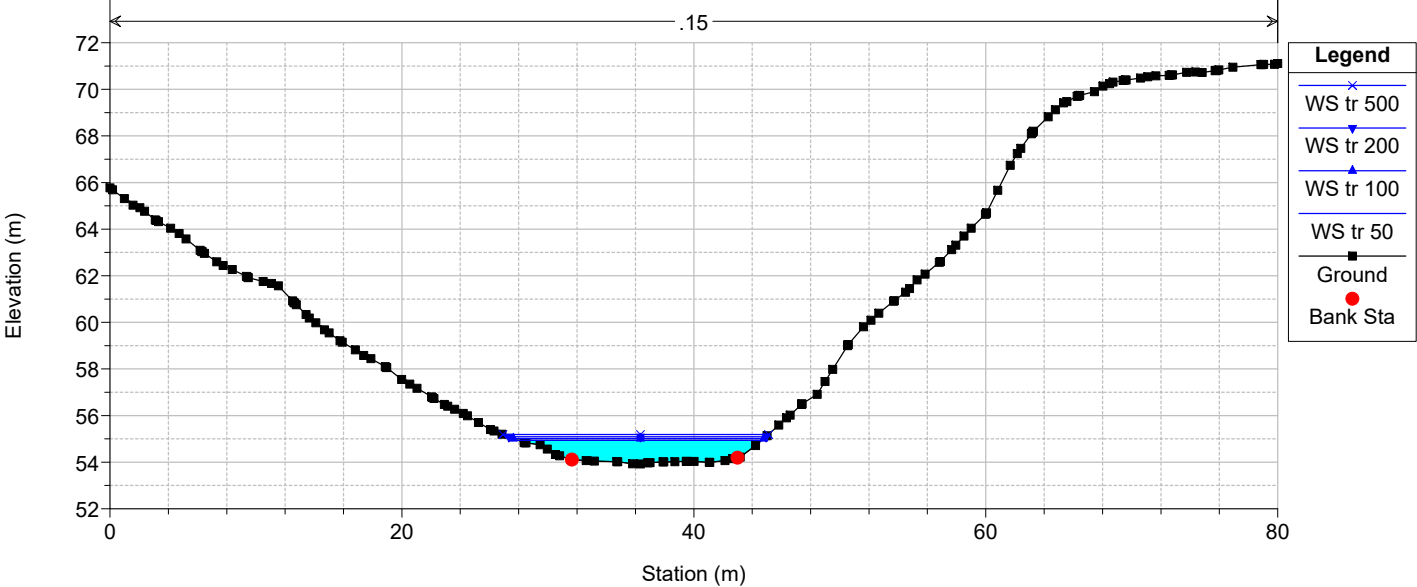
River = Argentiera Reach = Asta RS = 1180 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

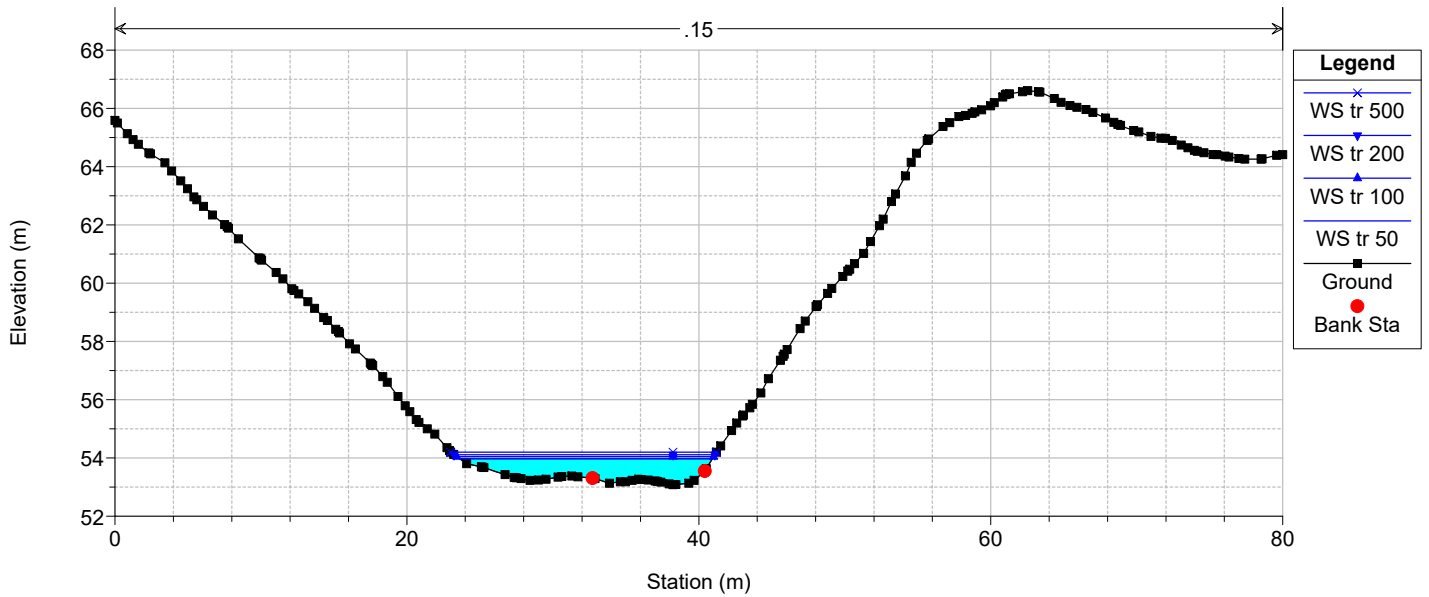
River = Argentiera Reach = Asta RS = 1160 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

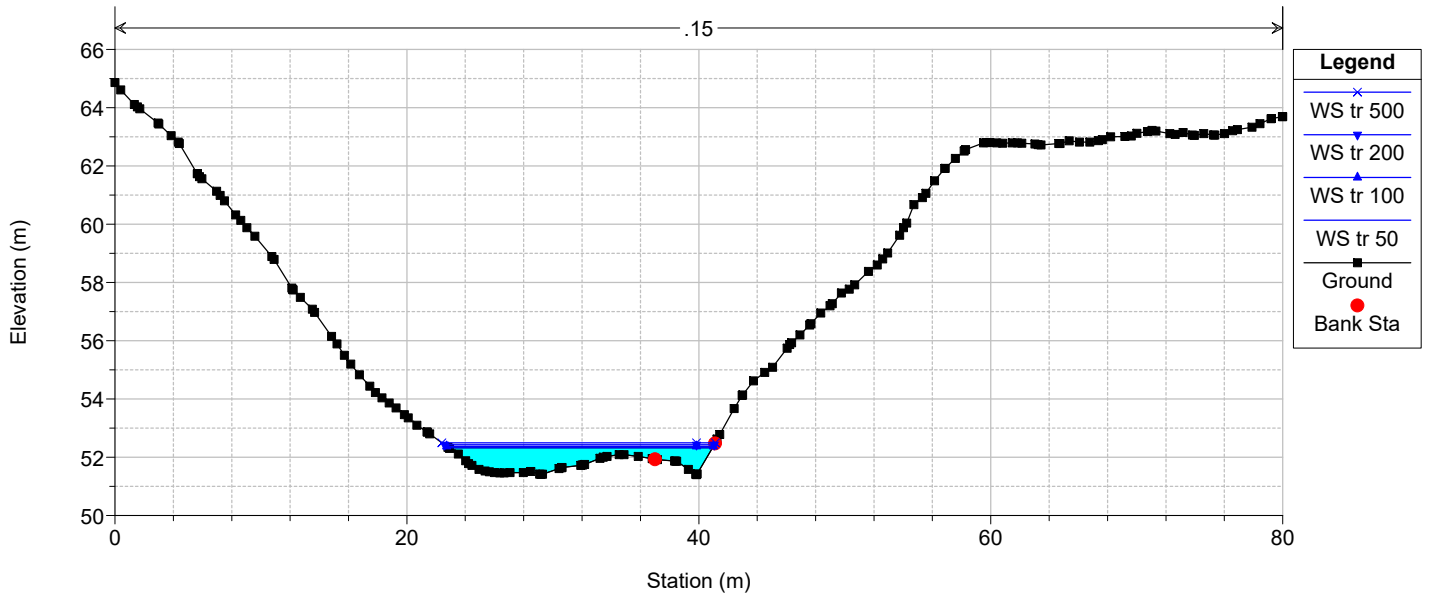
River = Argentiera Reach = Asta RS = 1140 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

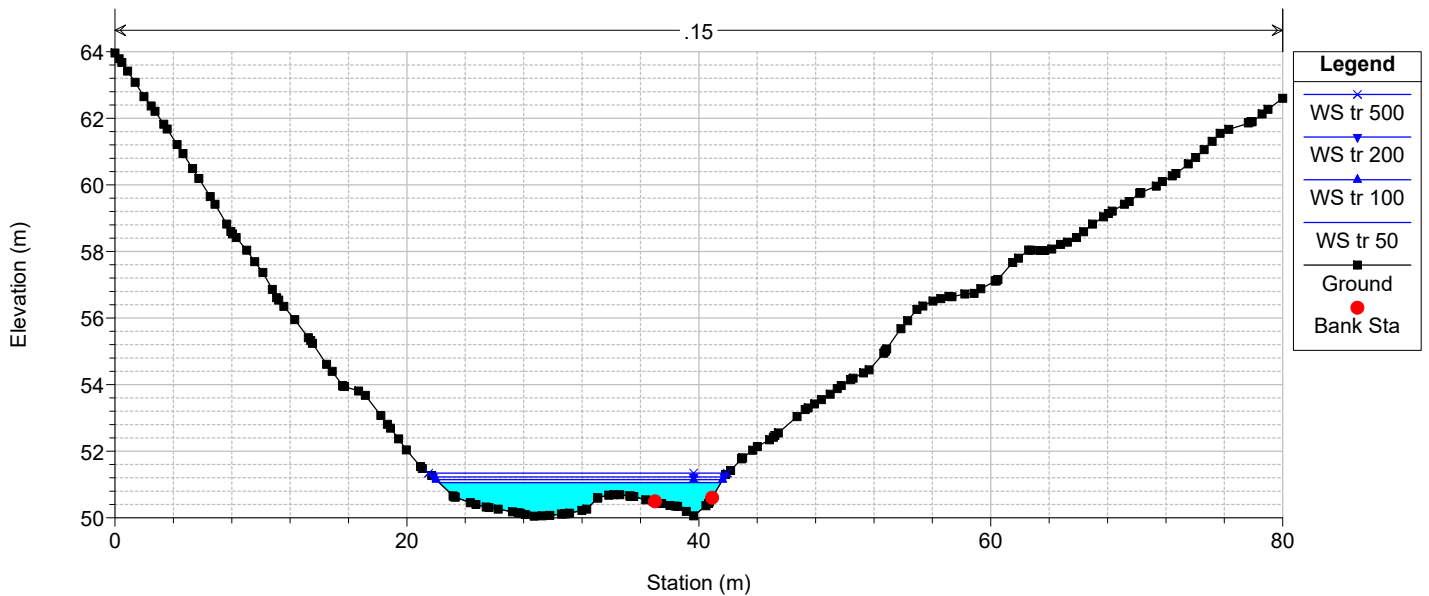
River = Argentiera Reach = Asta RS = 1120 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom: argentiera27092016 Flow: argentiera27092016

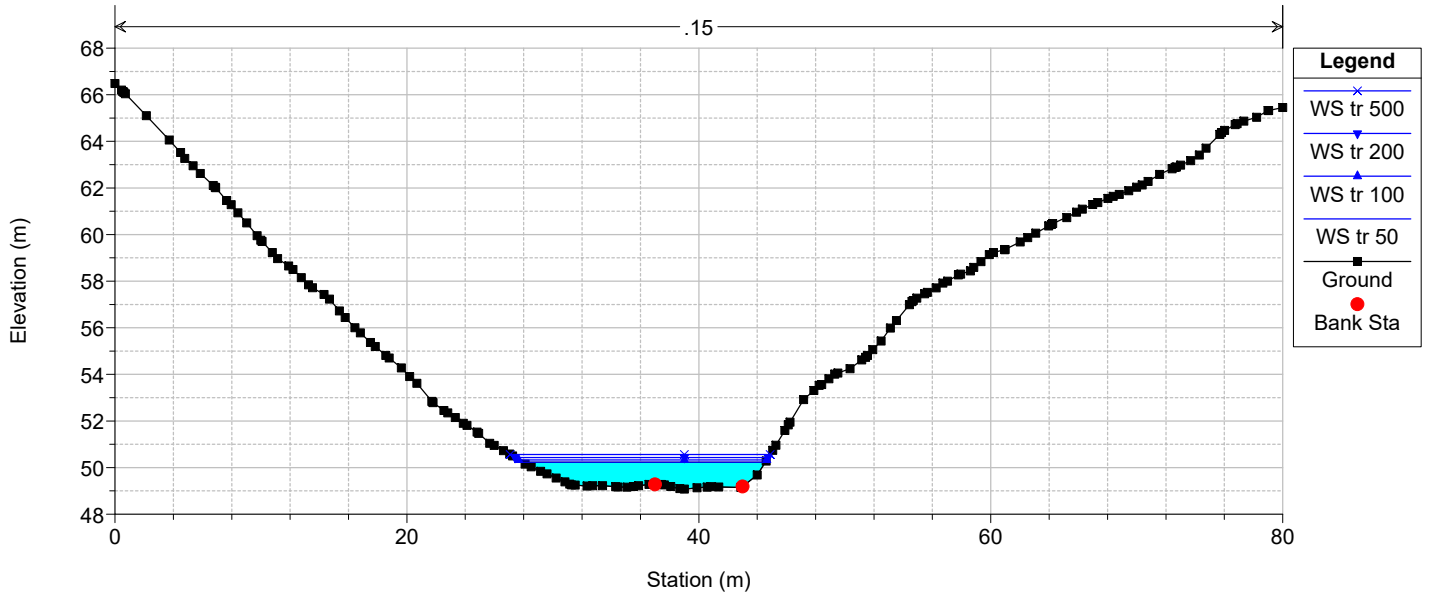
River = Argentiera Reach = Asta RS = 1100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

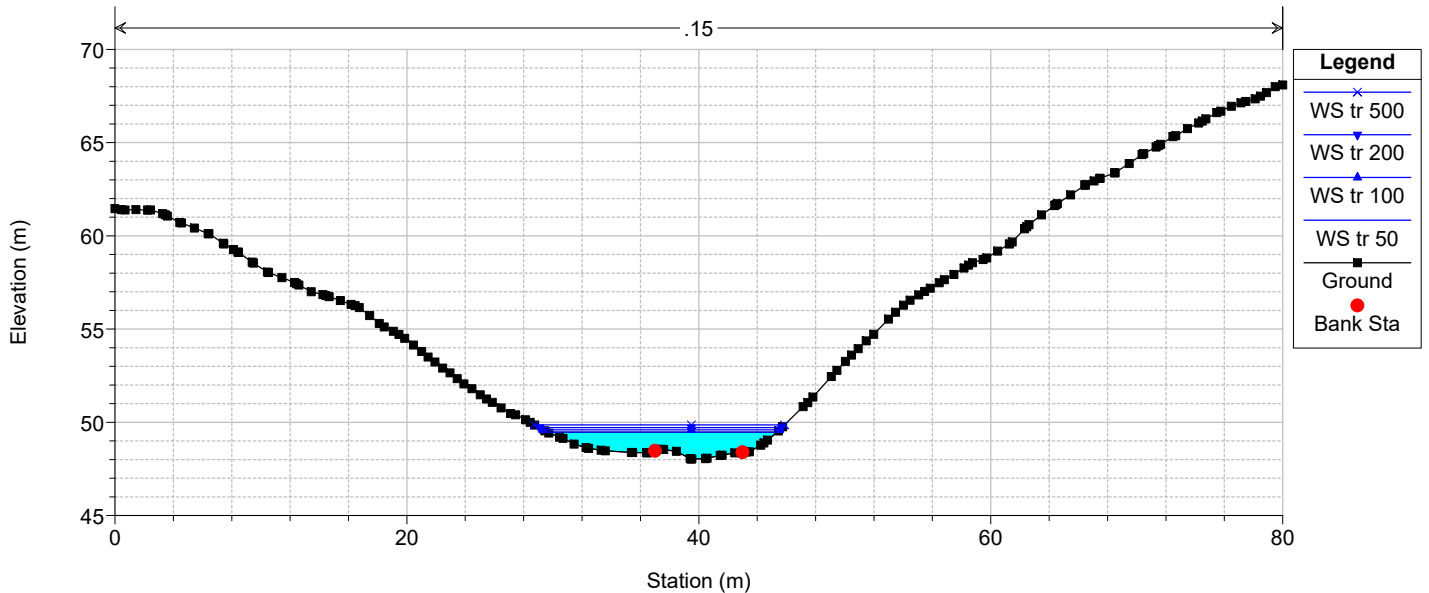
River = Argentiera Reach = Asta RS = 1080 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

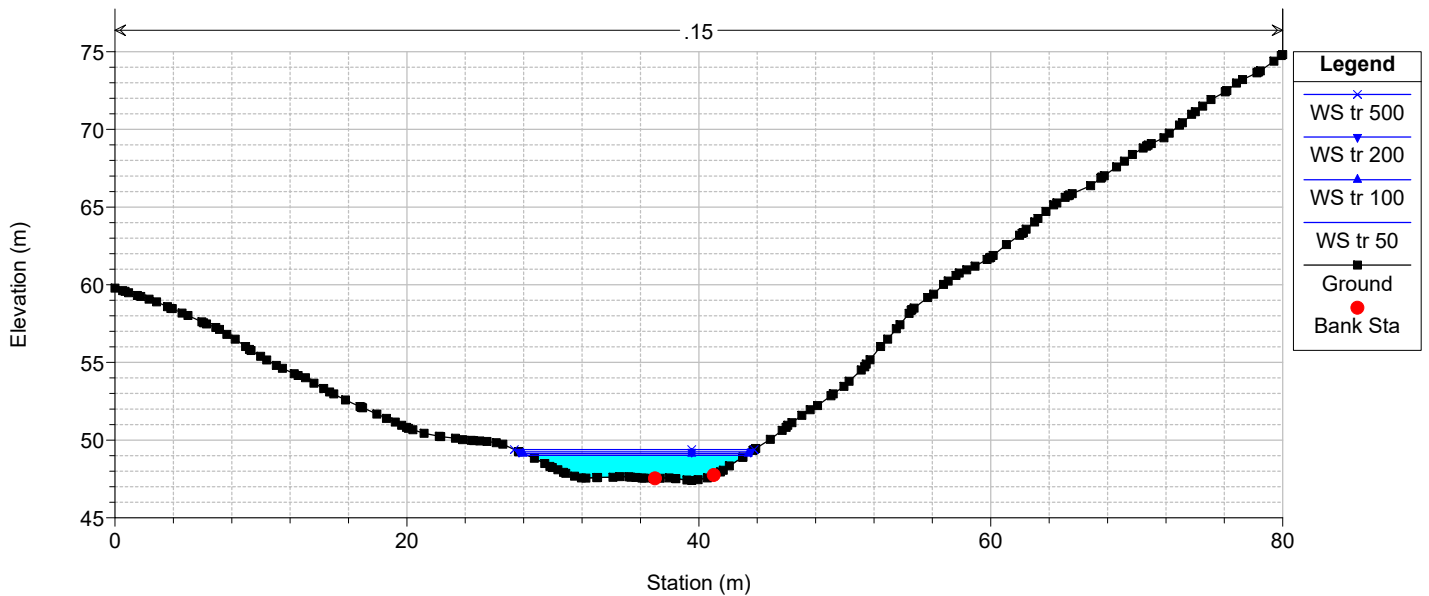
River = Argentiera Reach = Asta RS = 1060 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

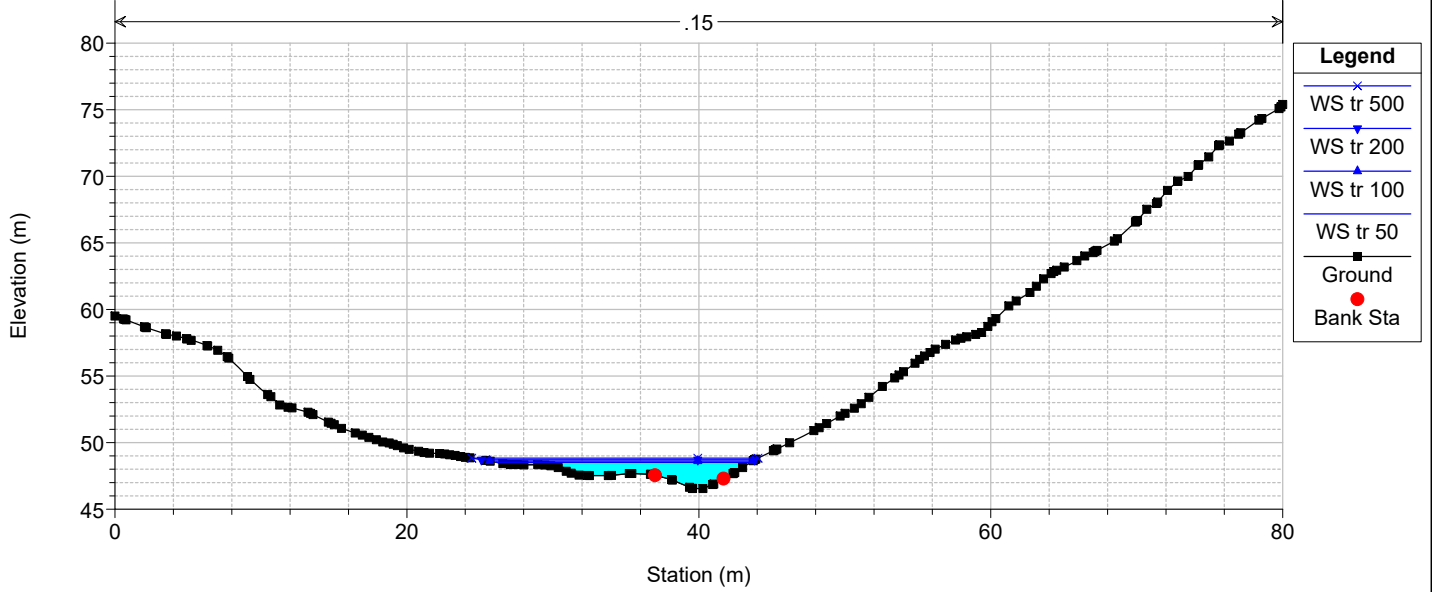
River = Argentiera Reach = Asta RS = 1040 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

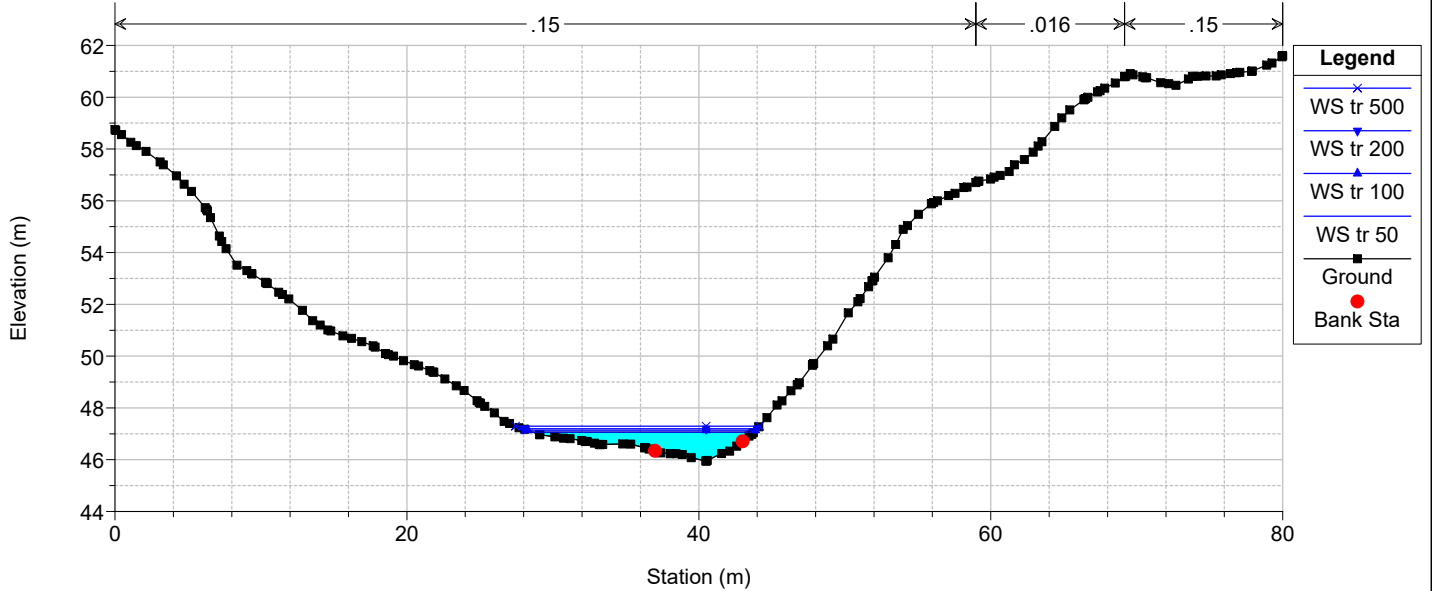
River = Argentiera Reach = Asta RS = 1020 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

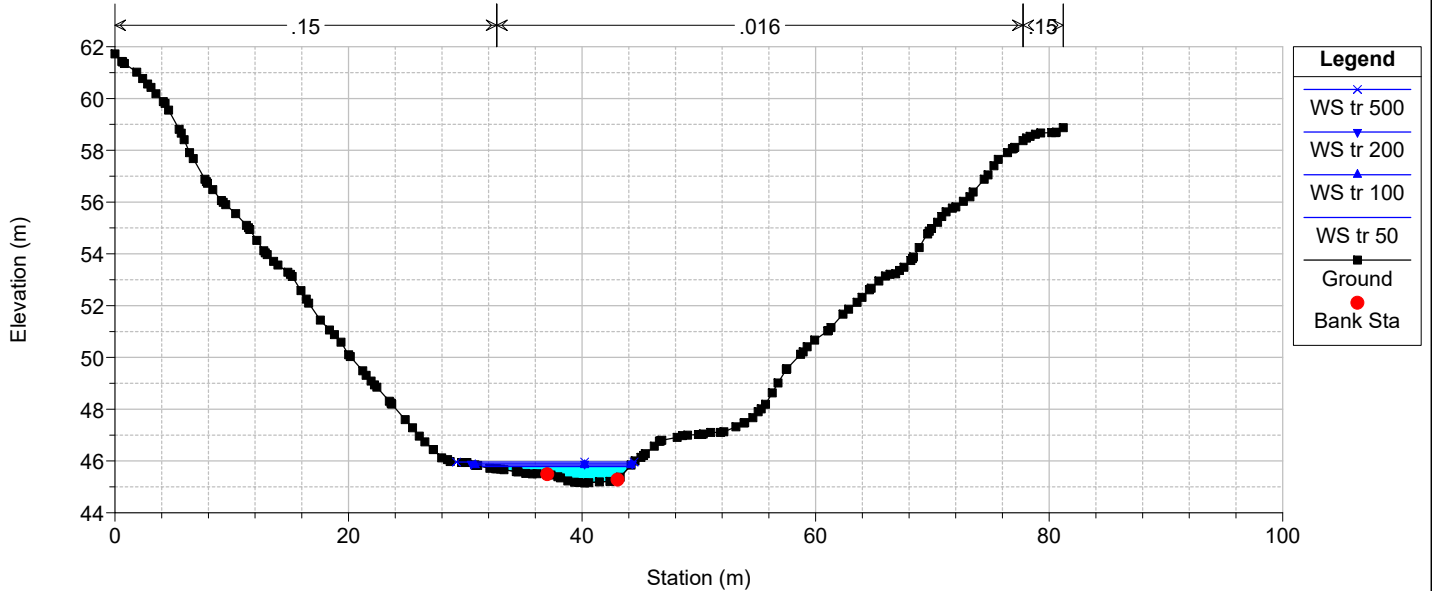
River = Argentiera Reach = Asta RS = 1000 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

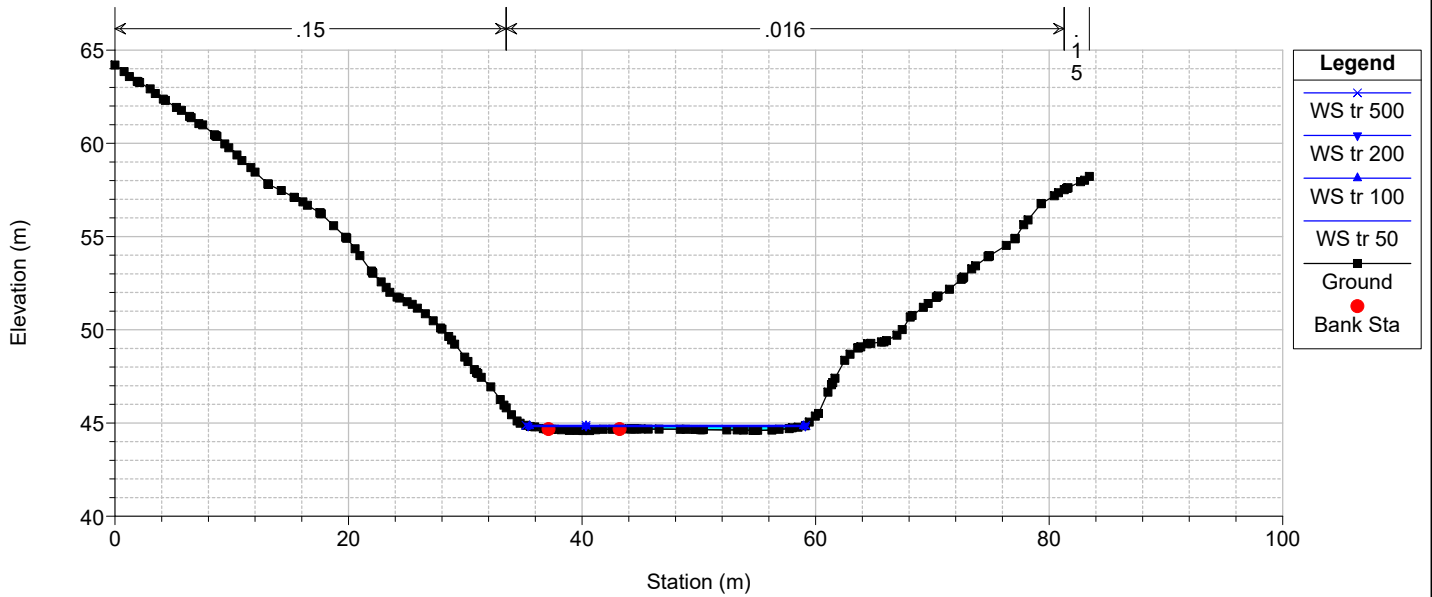
River = Argentiera Reach = Asta RS = 981.4691 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

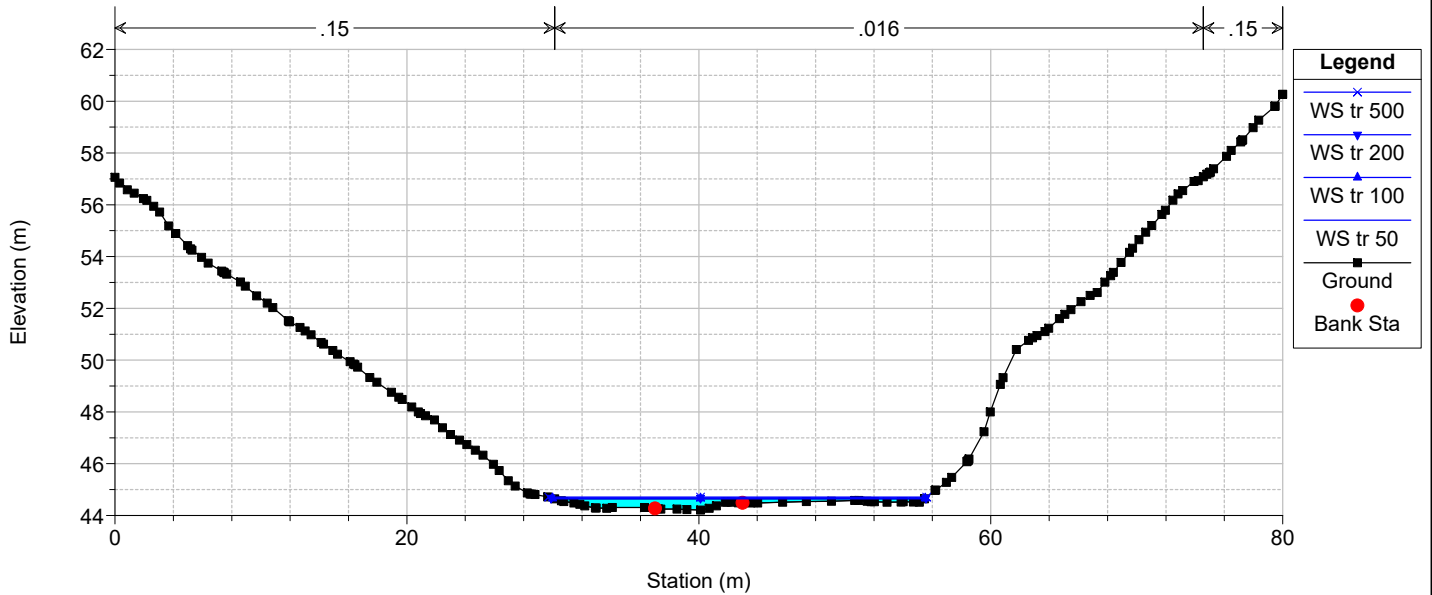
River = Argentiera Reach = Asta RS = 957.7764 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

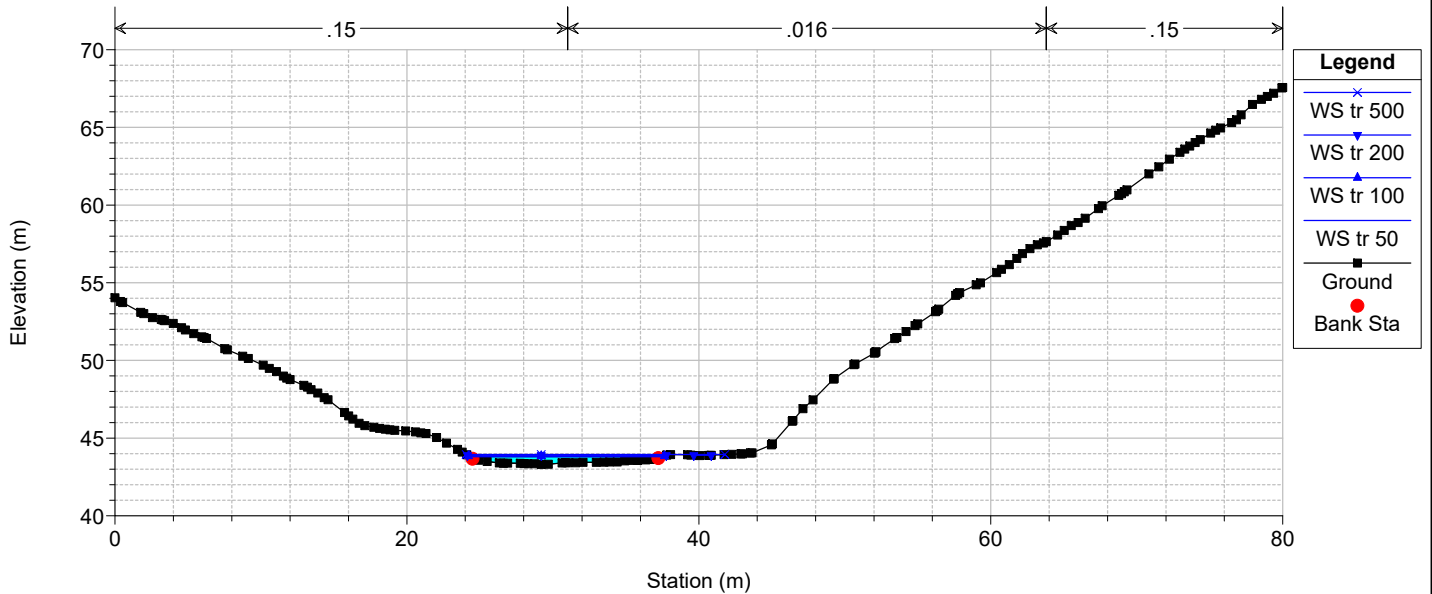
River = Argentiera Reach = Asta RS = 939.9998 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

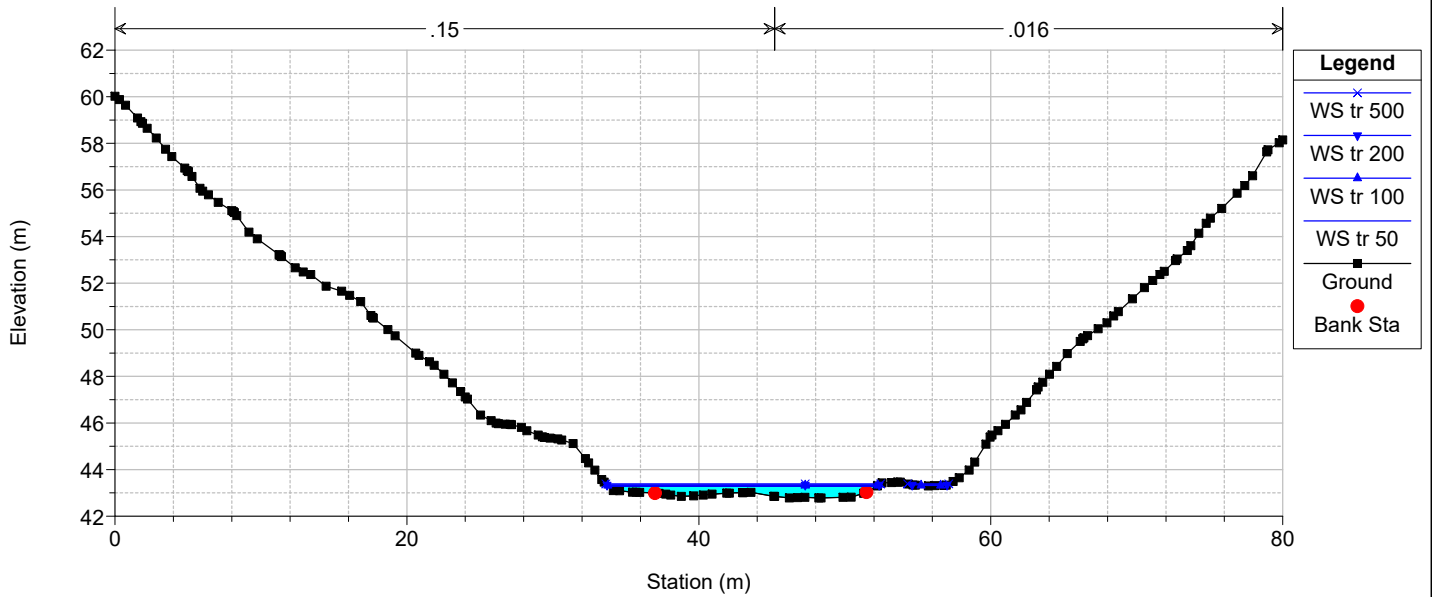
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

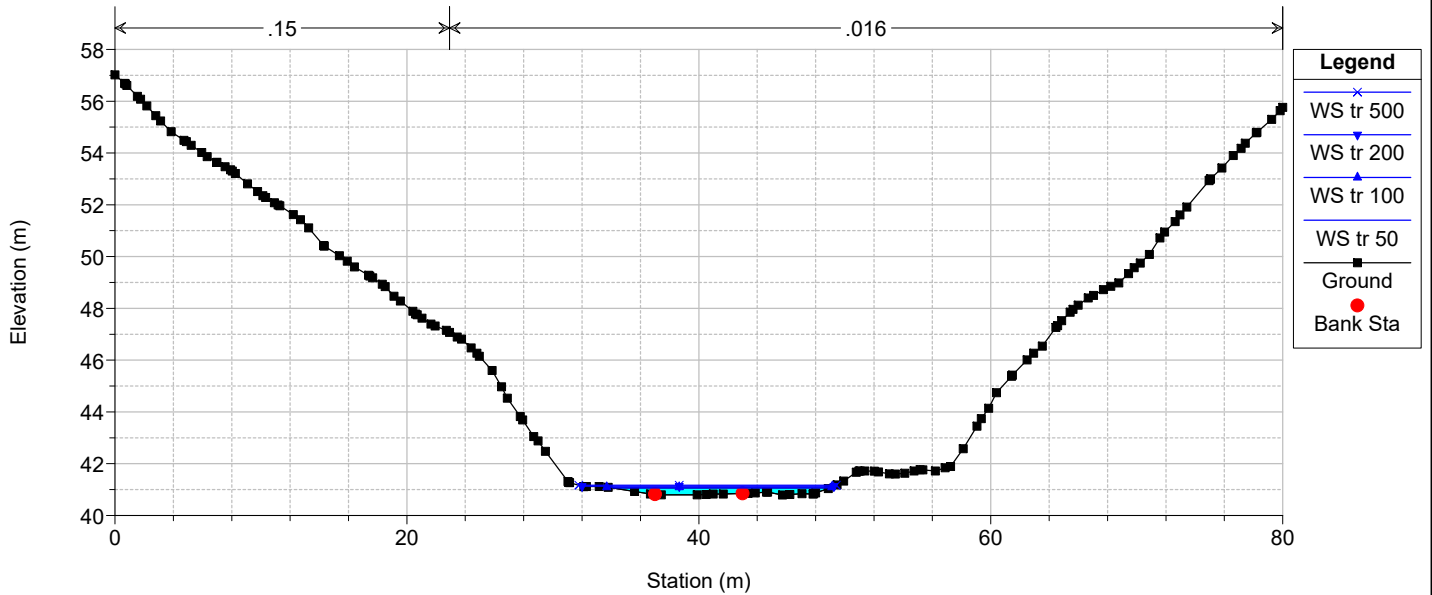
River = Argentiera Reach = Asta RS = 900.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

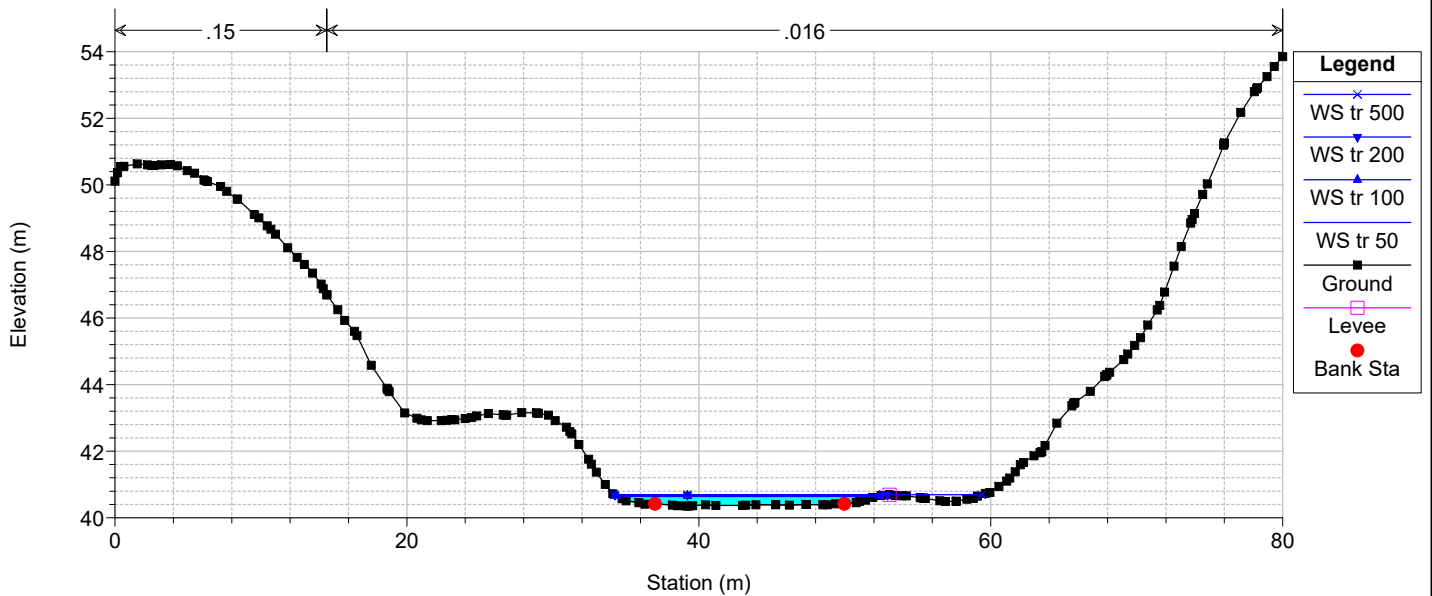
River = Argentiera Reach = Asta RS = 879.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

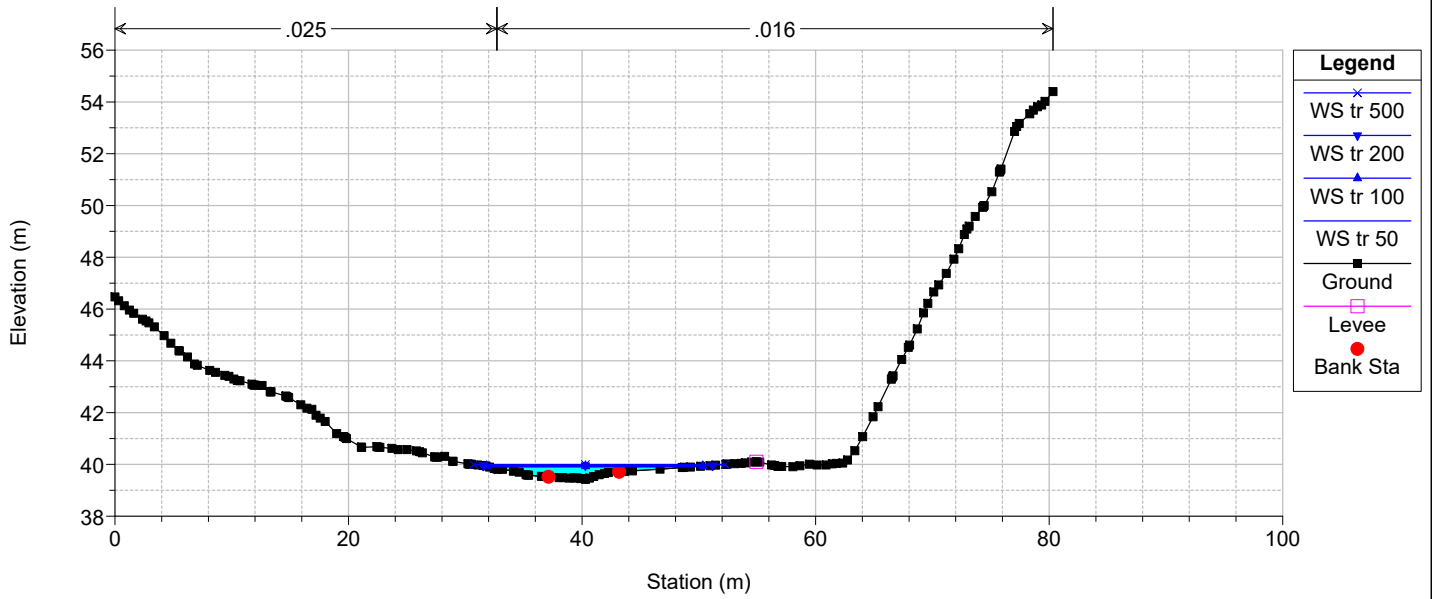
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

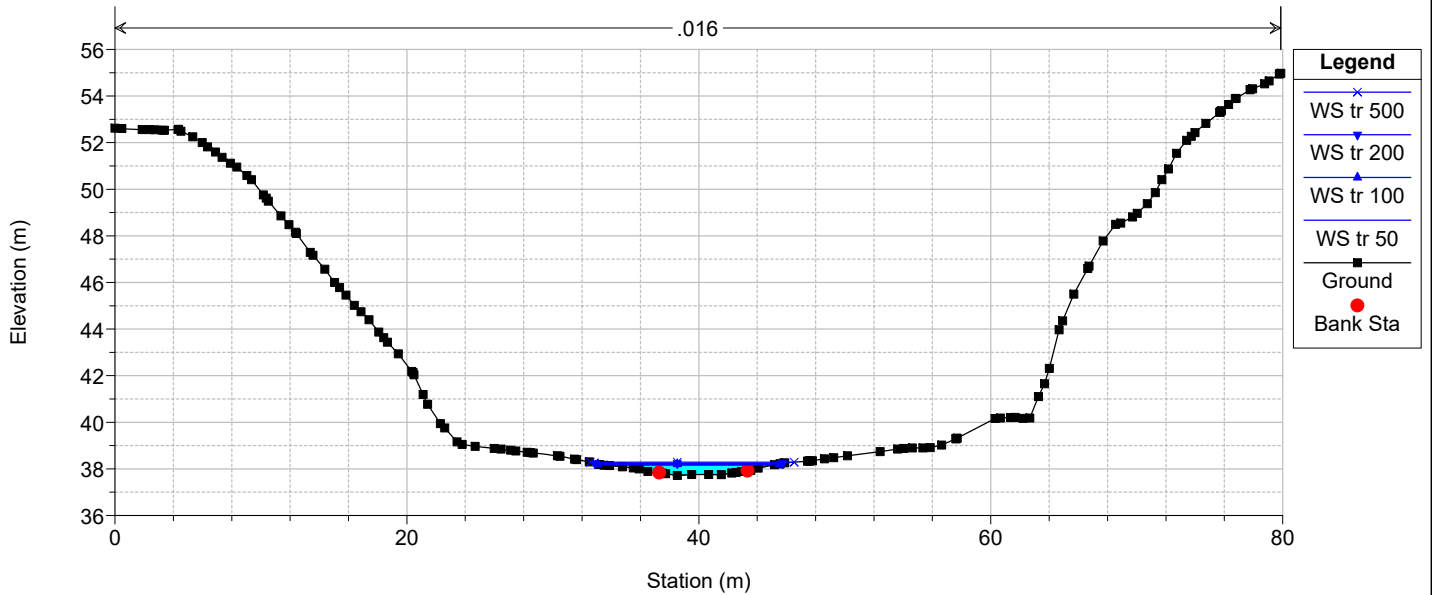
River = Argentiera Reach = Asta RS = 842.7241 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

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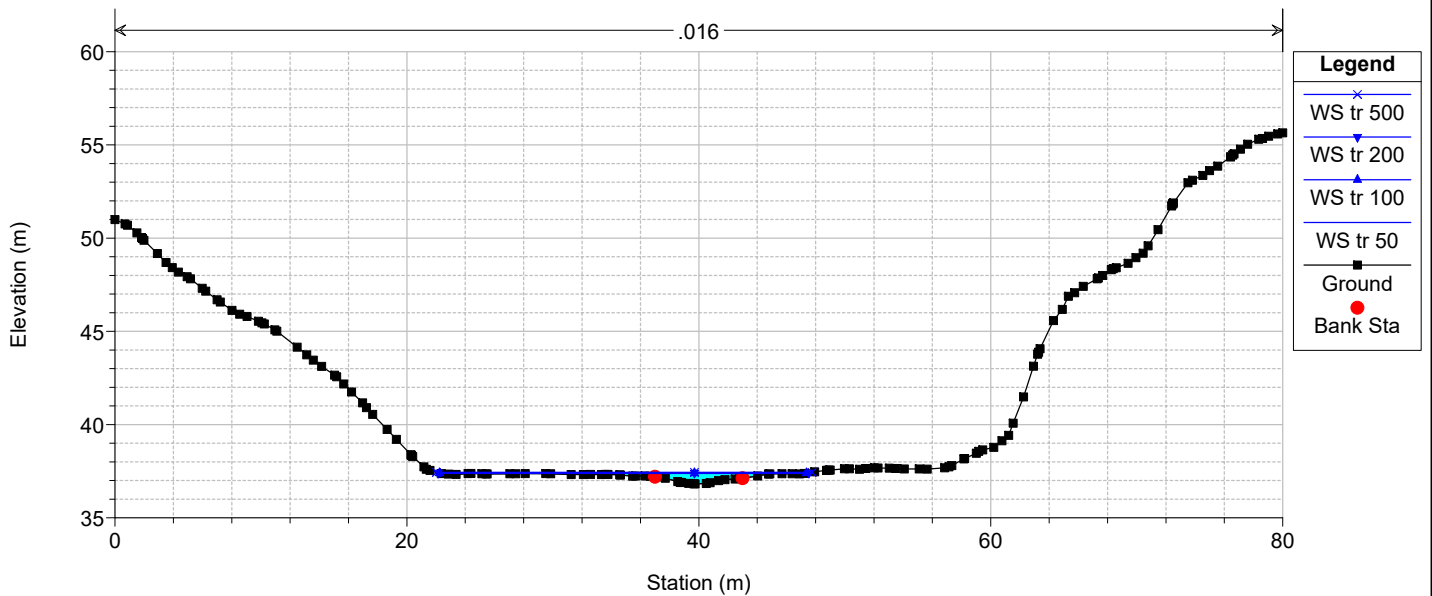
River = Argentiera Reach = Asta RS = 815.8923 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

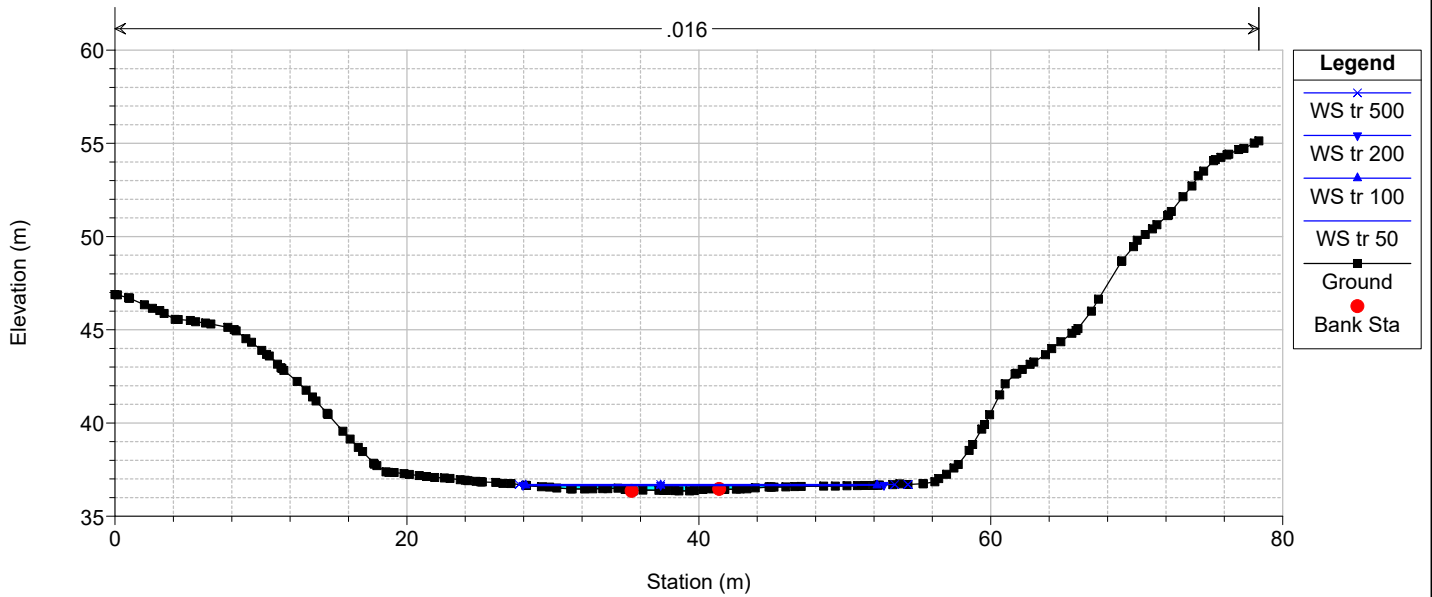
River = Argentiera Reach = Asta RS = 800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

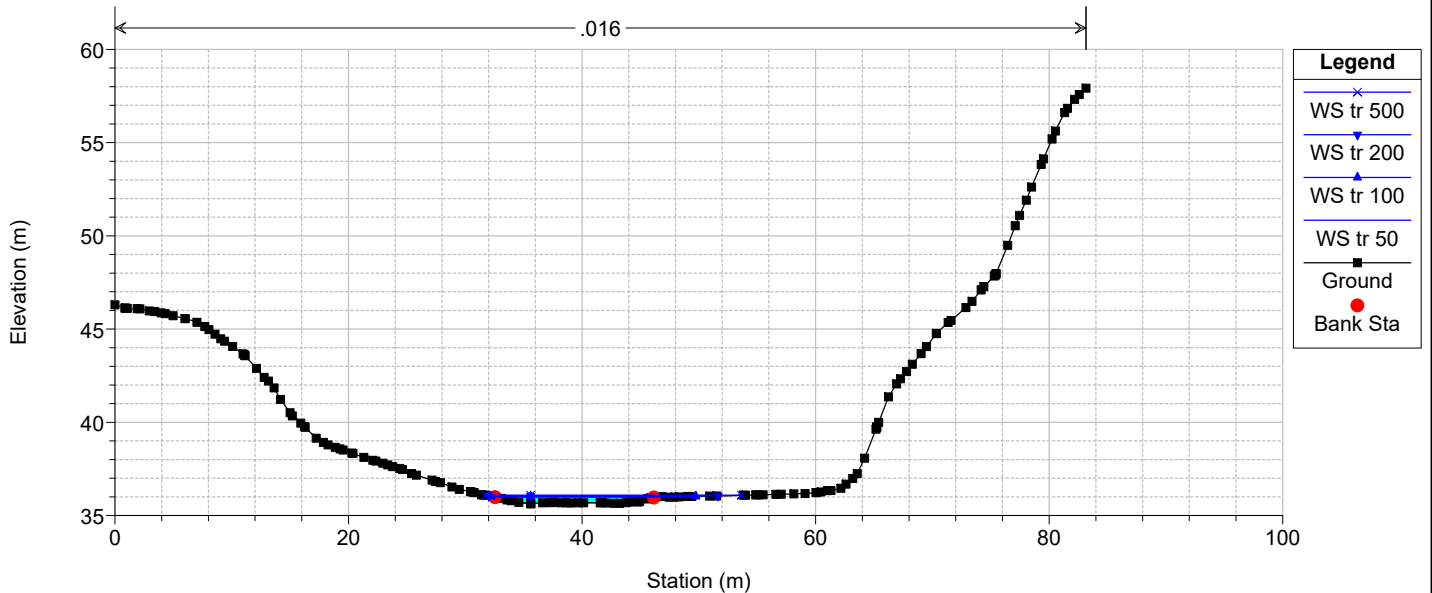
River = Argentiera Reach = Asta RS = 784.4597 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

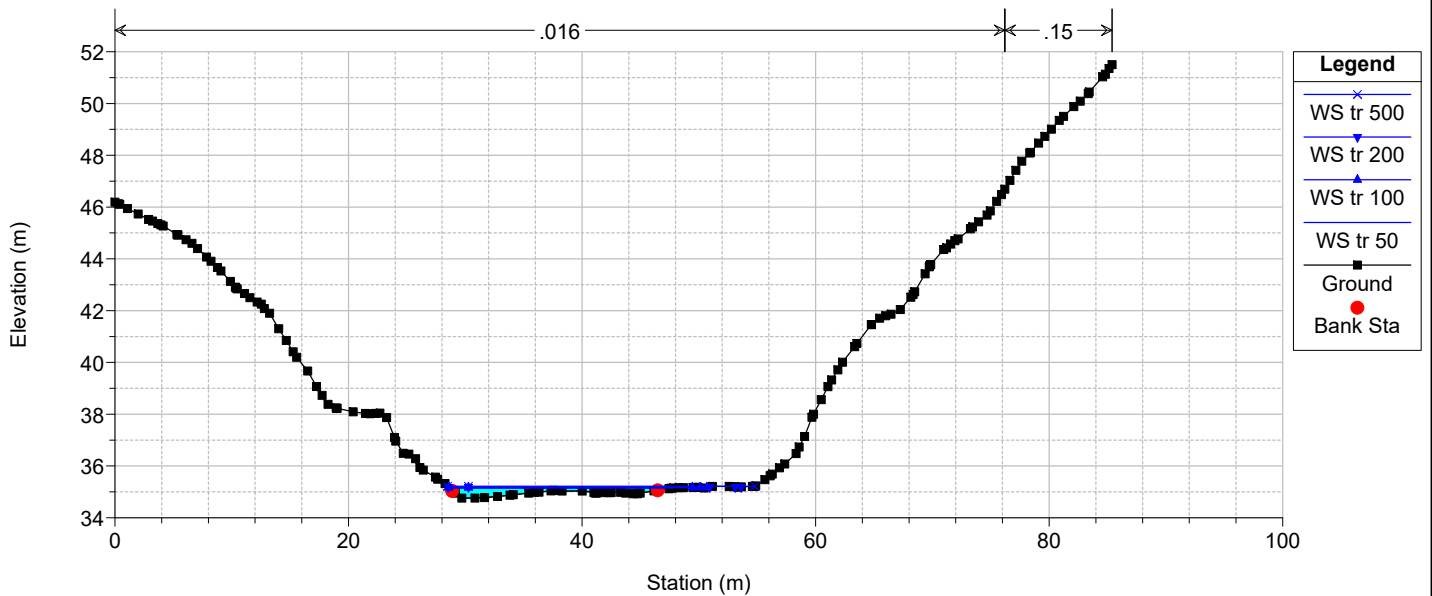
River = Argentiera Reach = Asta RS = 760.5936 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

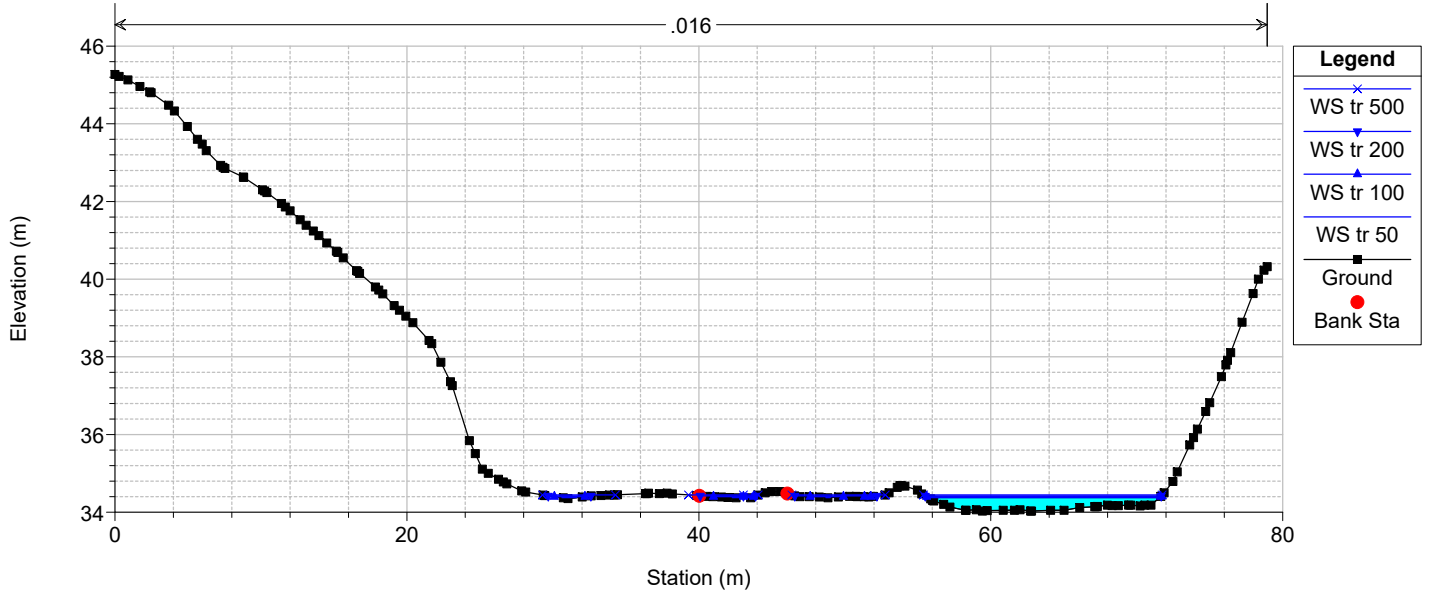
River = Argentiera Reach = Asta RS = 738.1095 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

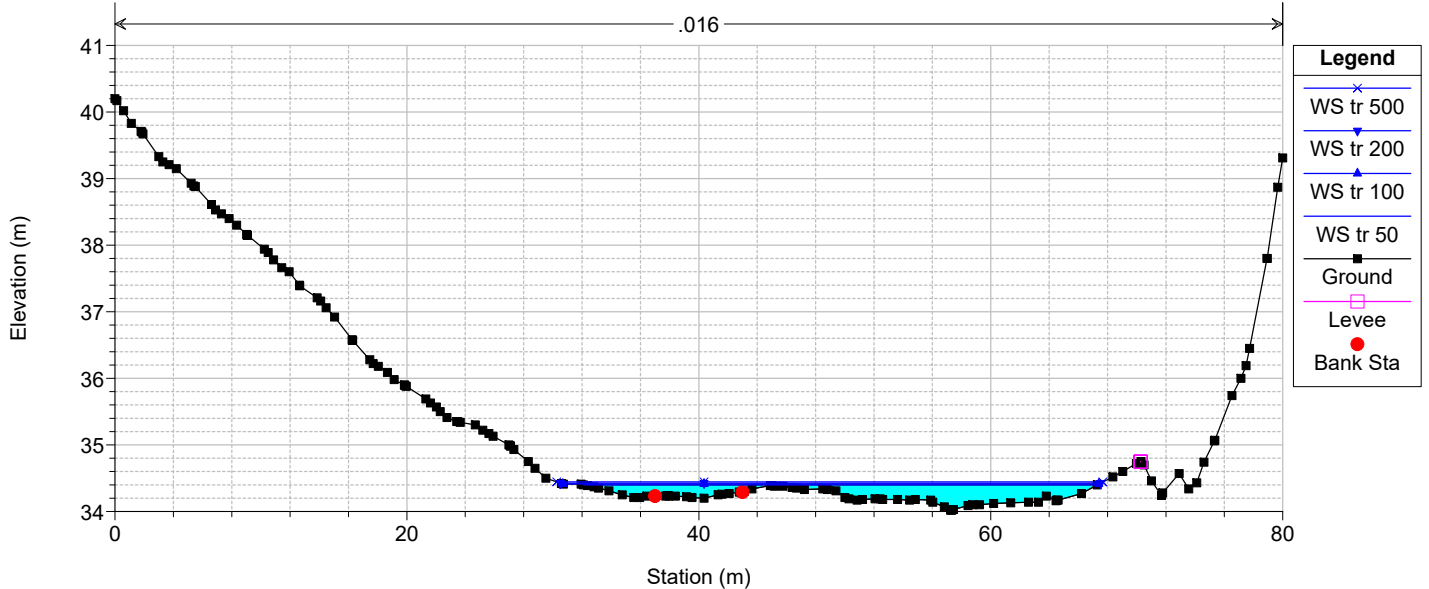
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

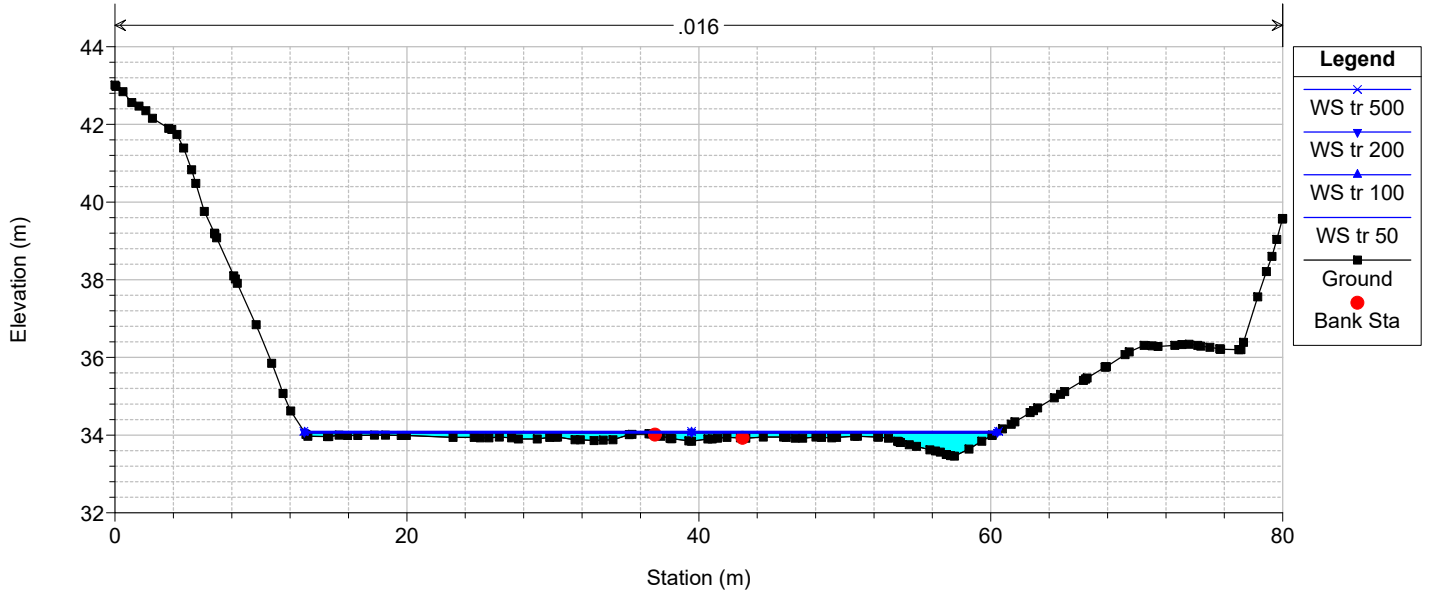
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

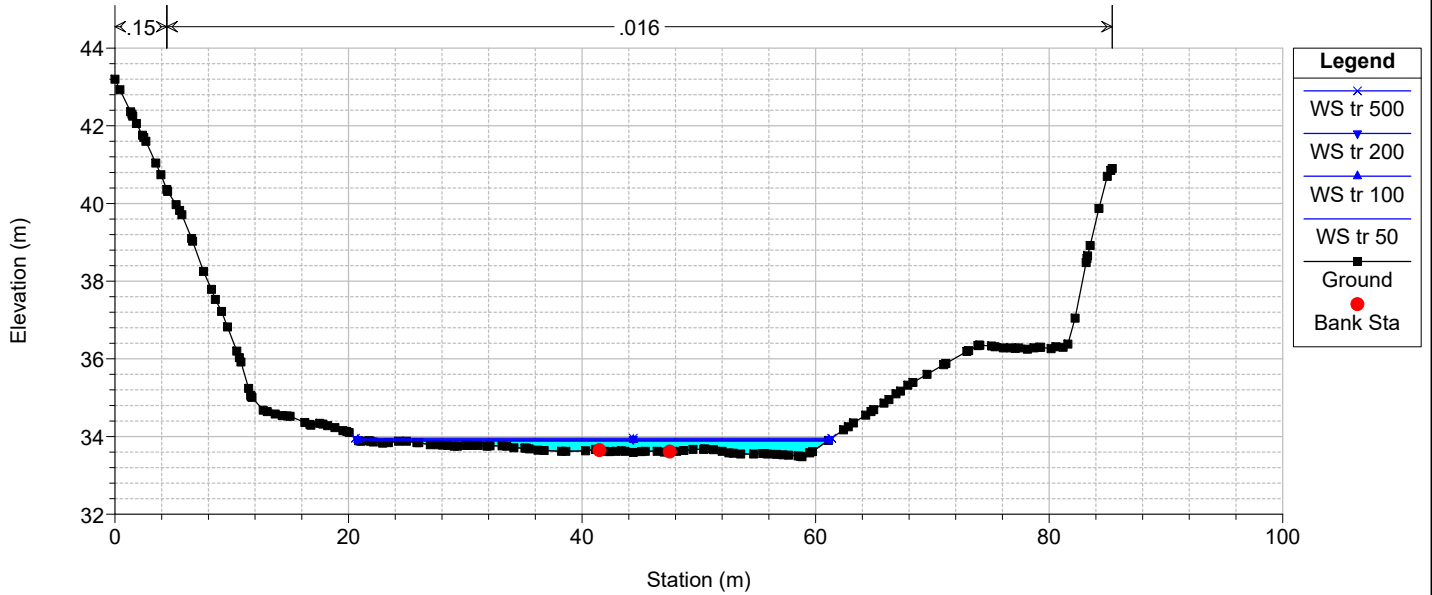
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

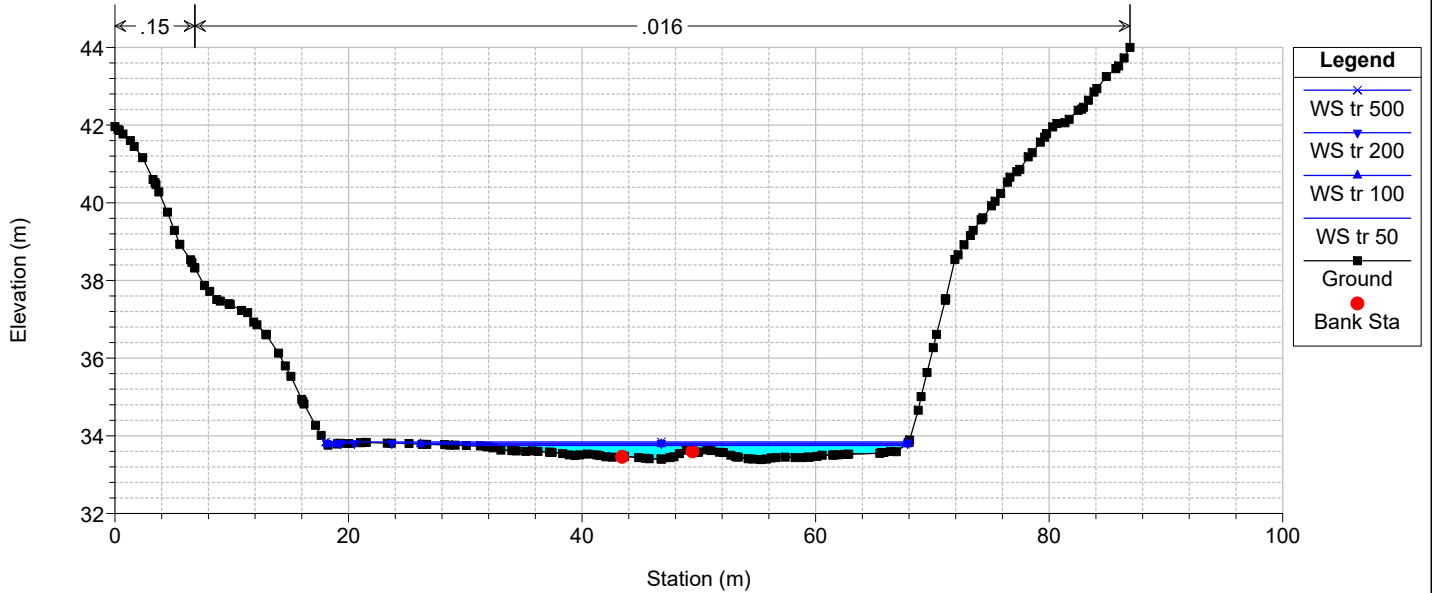
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

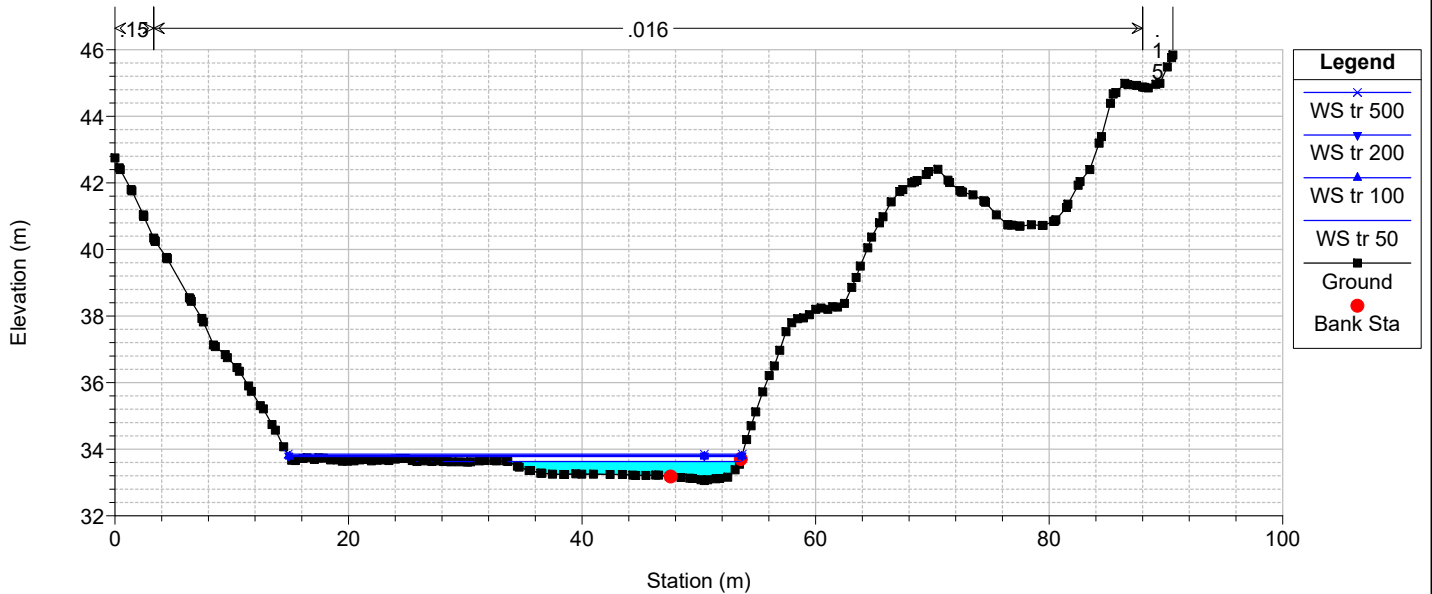
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

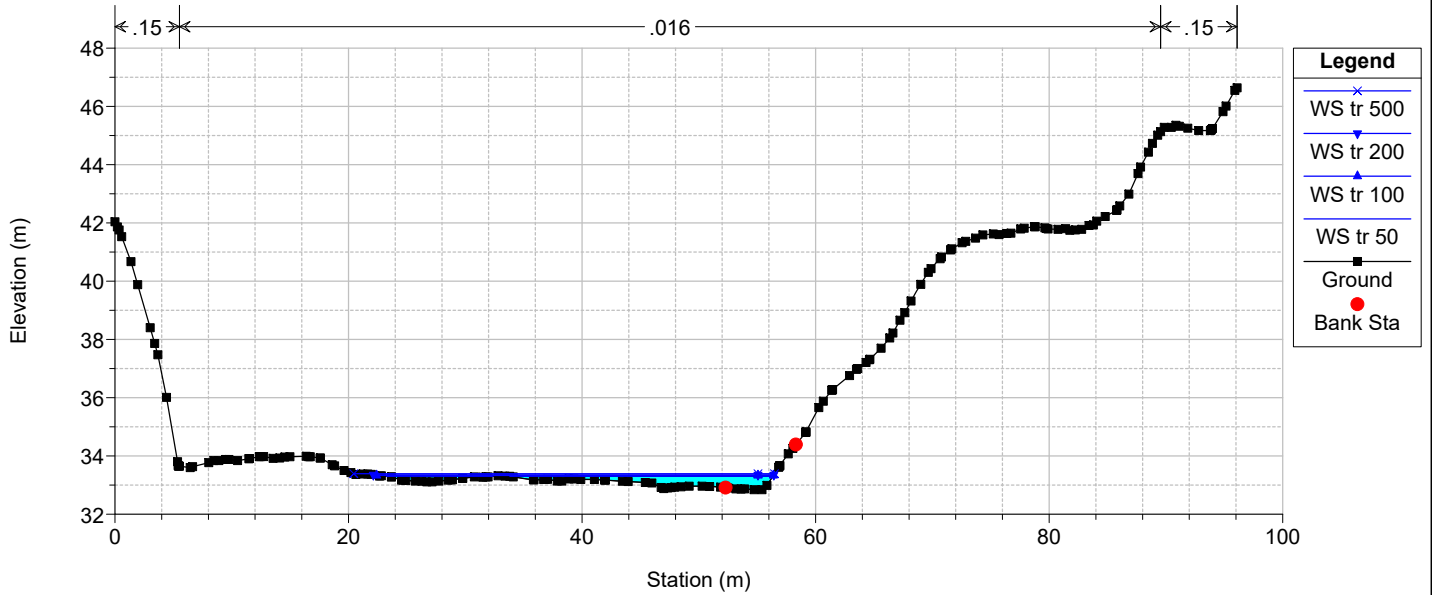
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

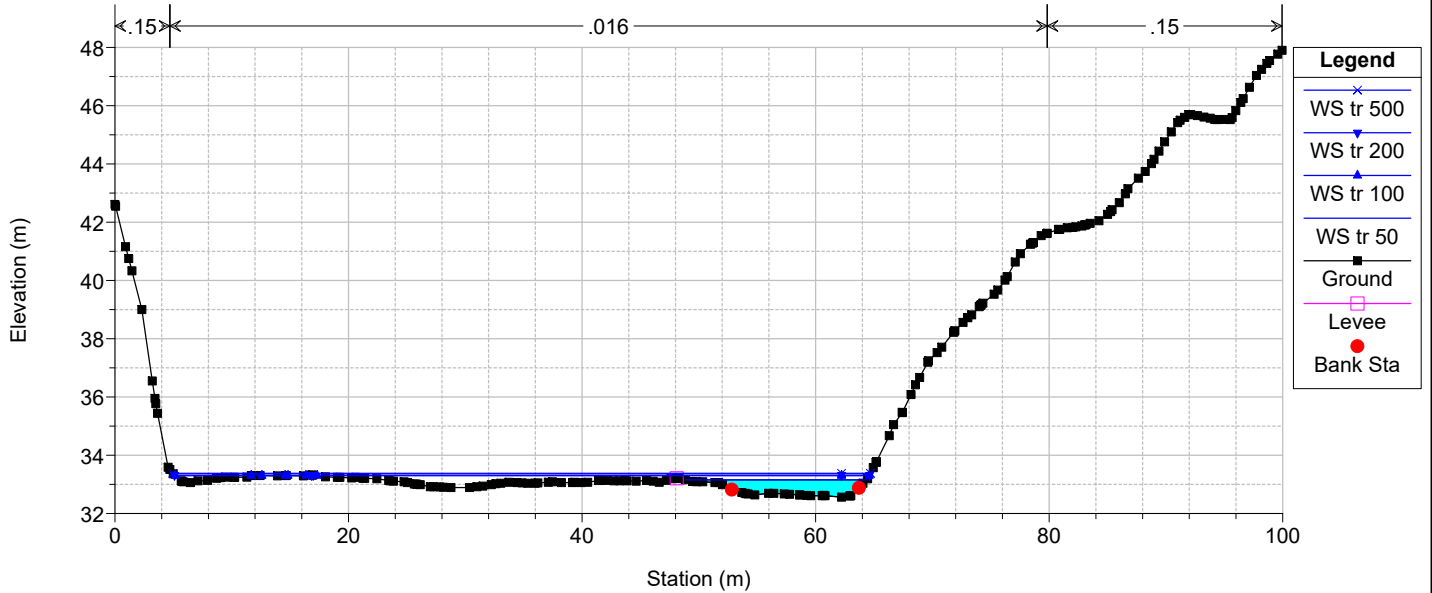
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

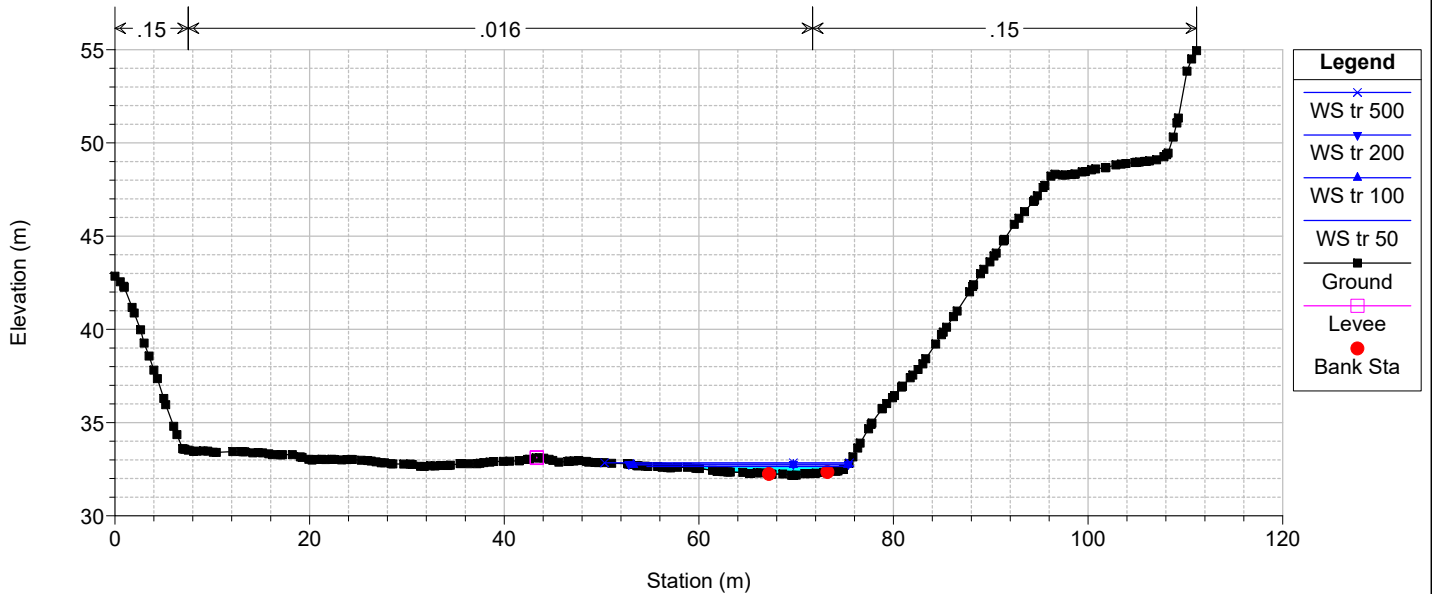
River = Argentiera Reach = Asta RS = 595.178 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

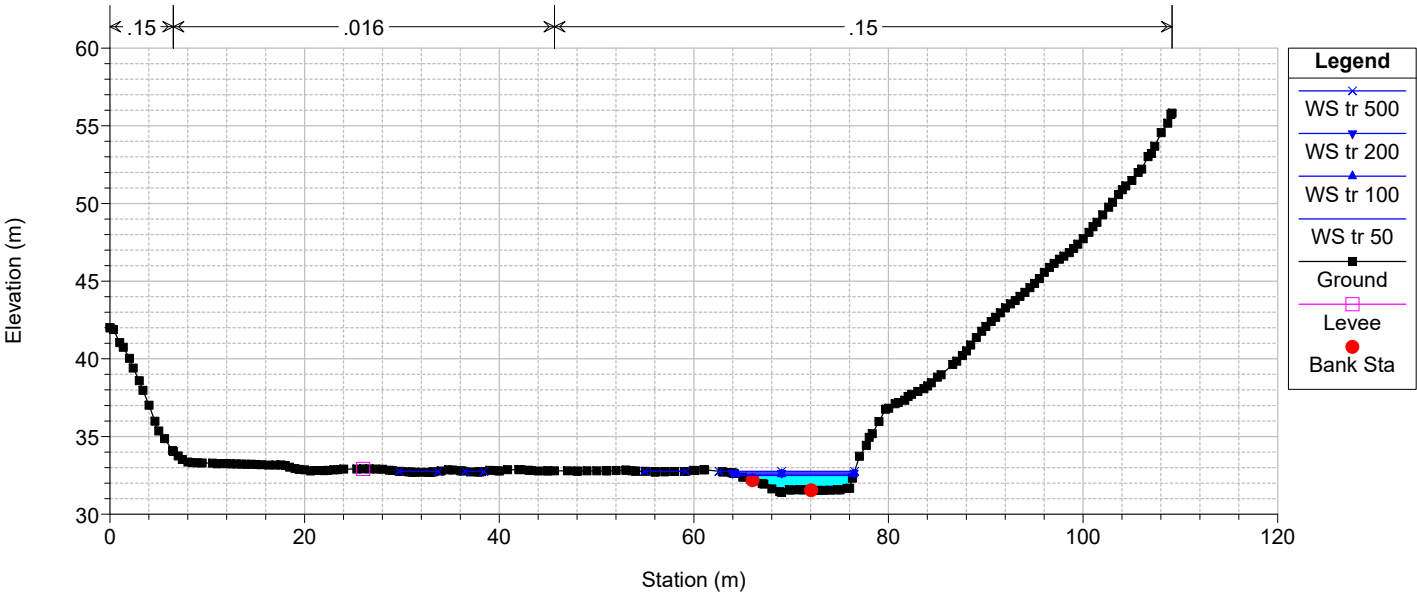
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

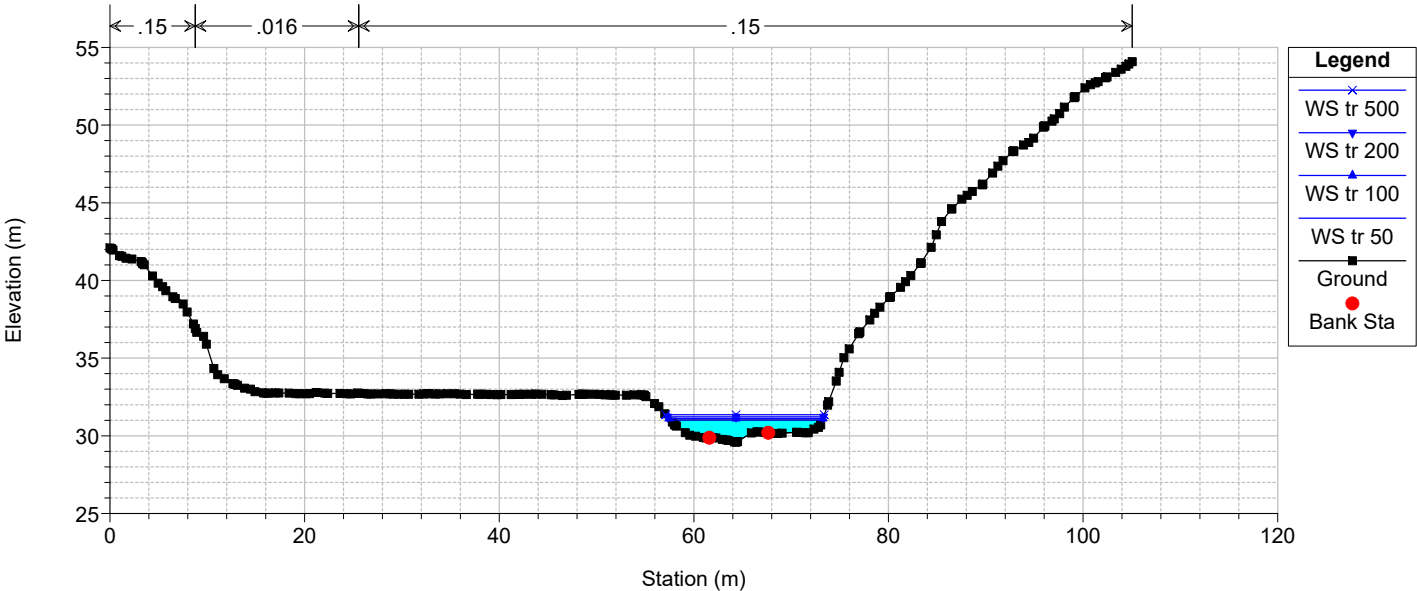
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argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

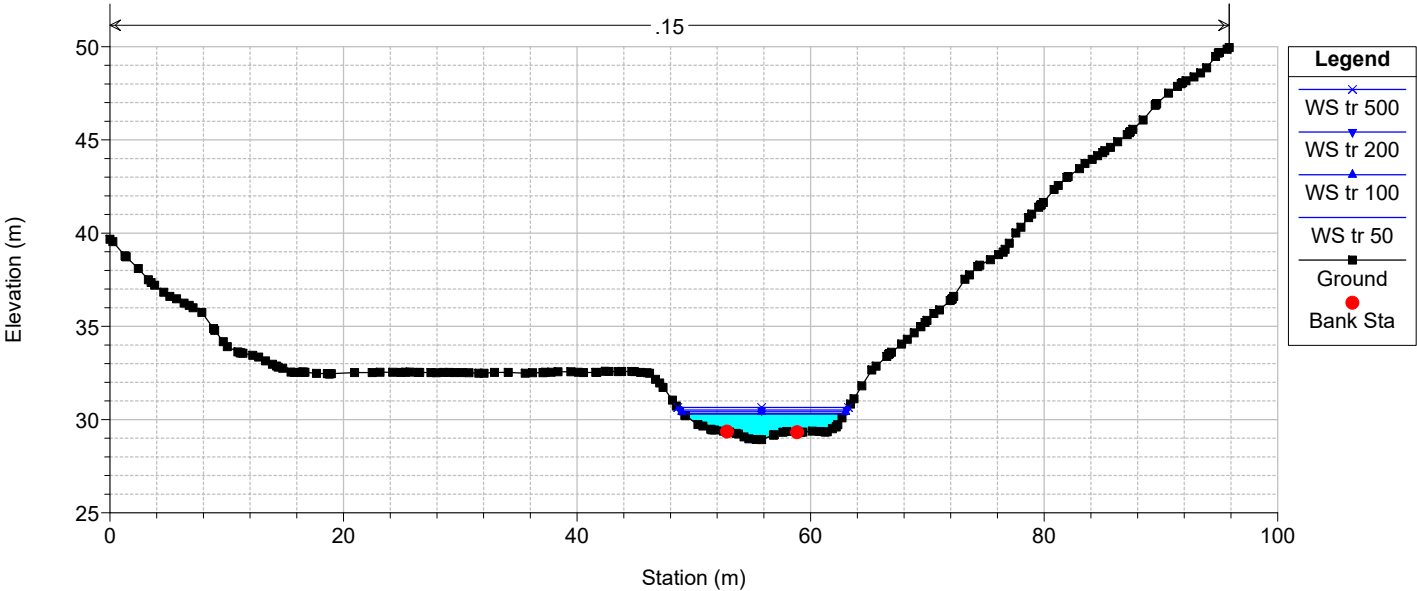
River = Argentiera Reach = Asta RS = 534.4843 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

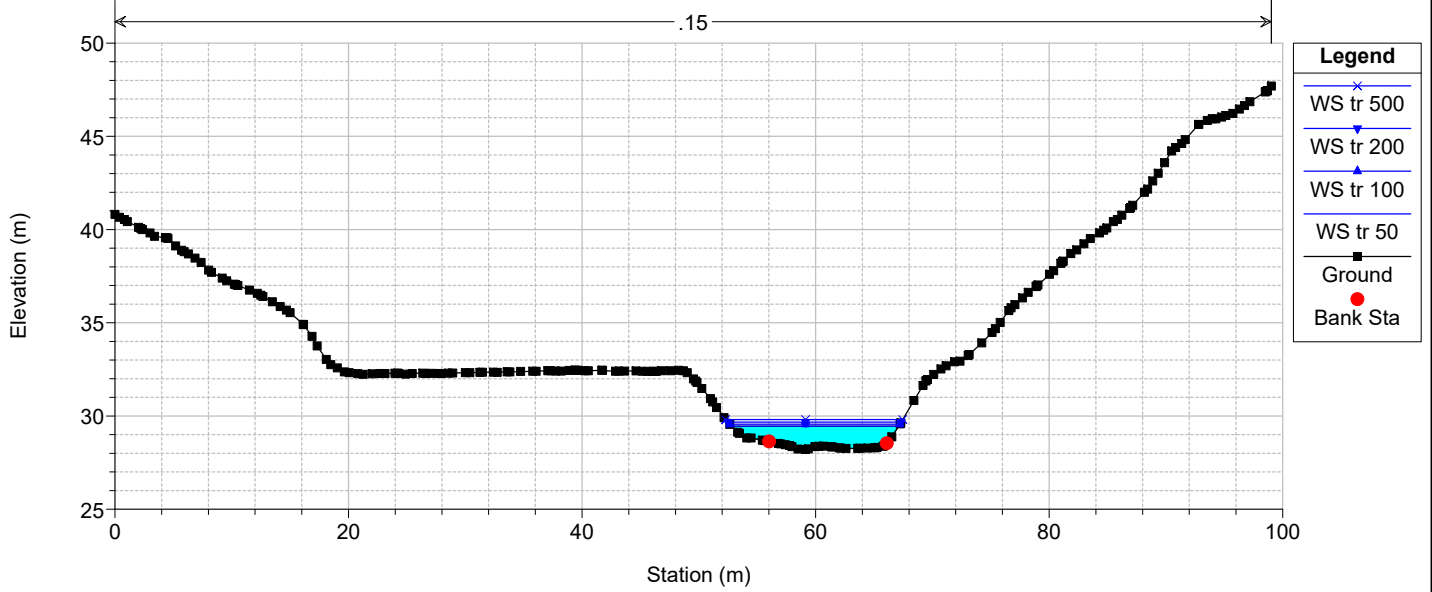
River = Argentiera Reach = Asta RS = 519.662 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

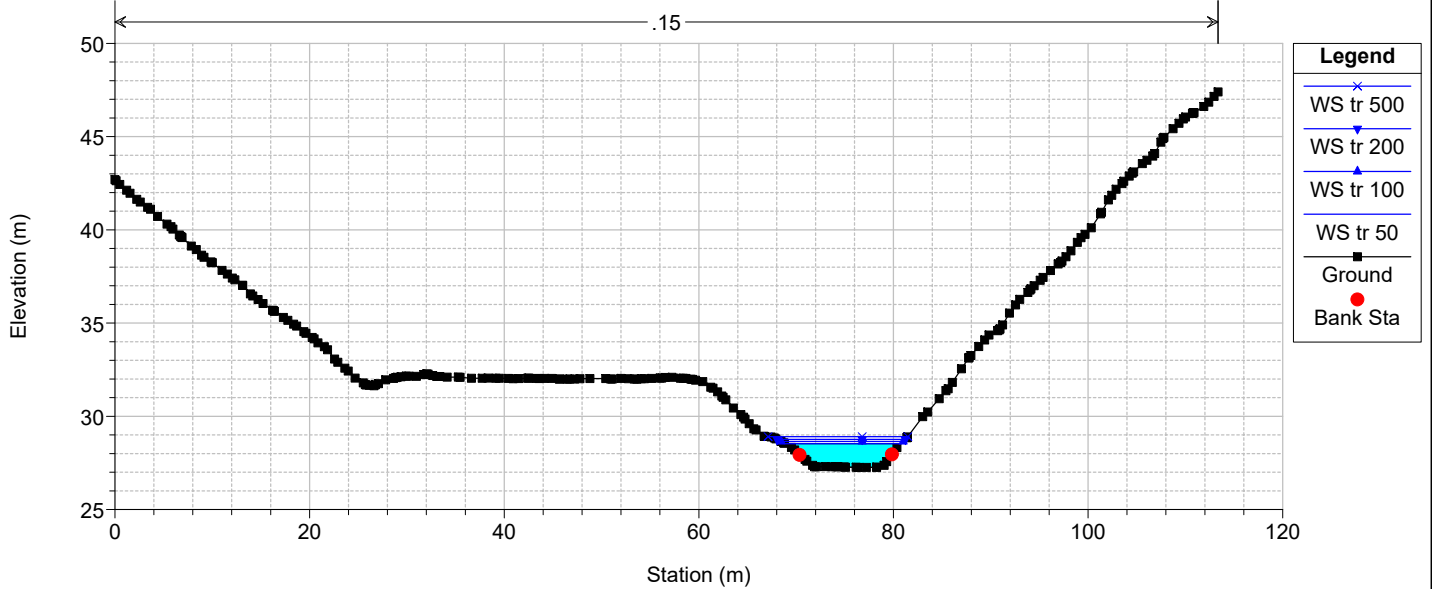
River = Argentiera Reach = Asta RS = 500.162 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

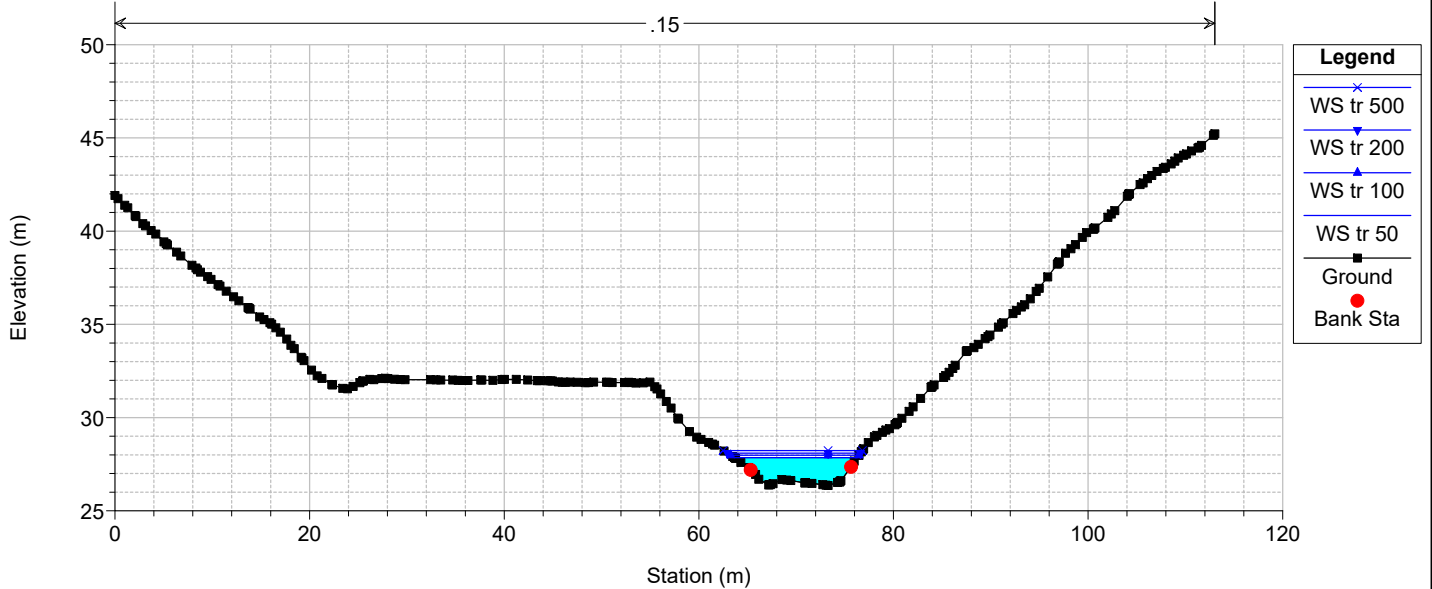
River = Argentiera Reach = Asta RS = 480 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

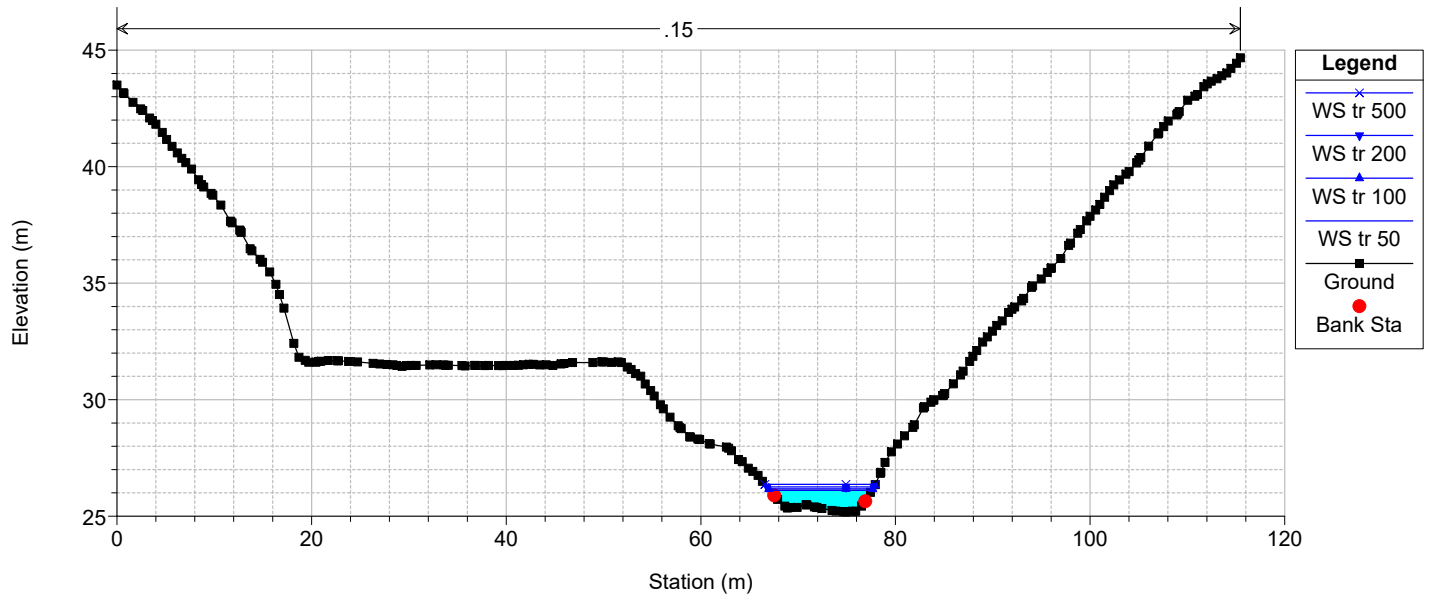
River = Argentiera Reach = Asta RS = 461.9778 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

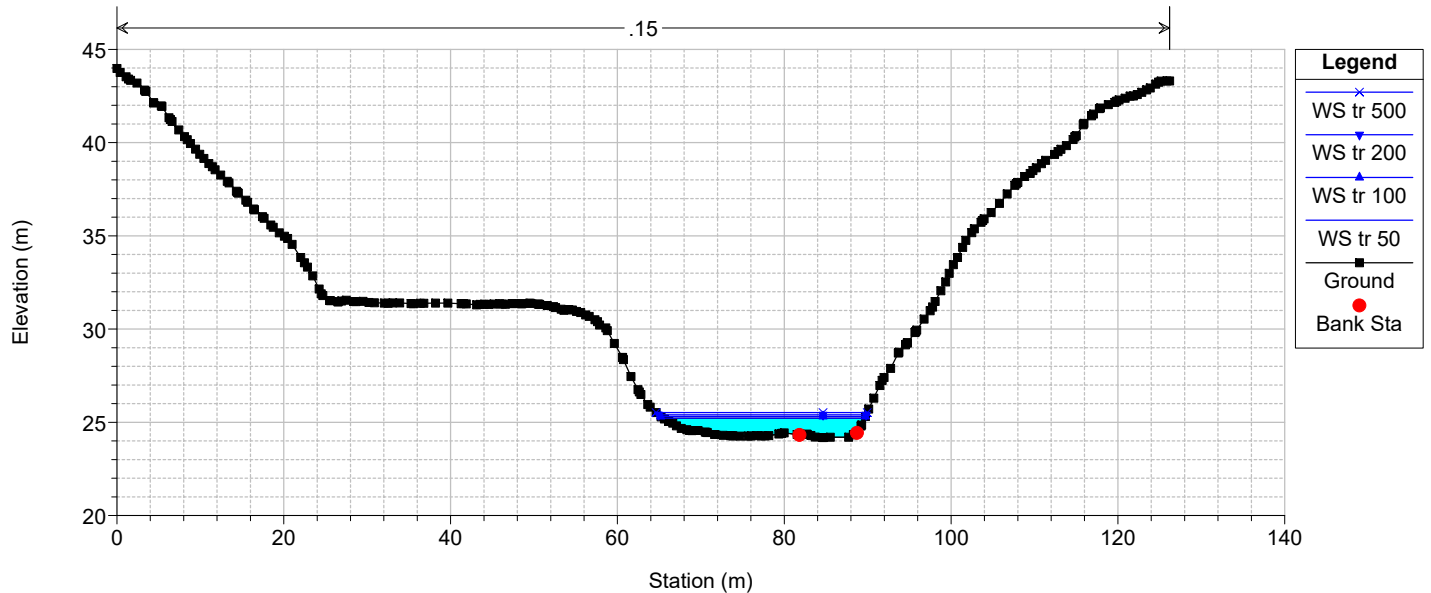
River = Argentiera Reach = Asta RS = 440 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

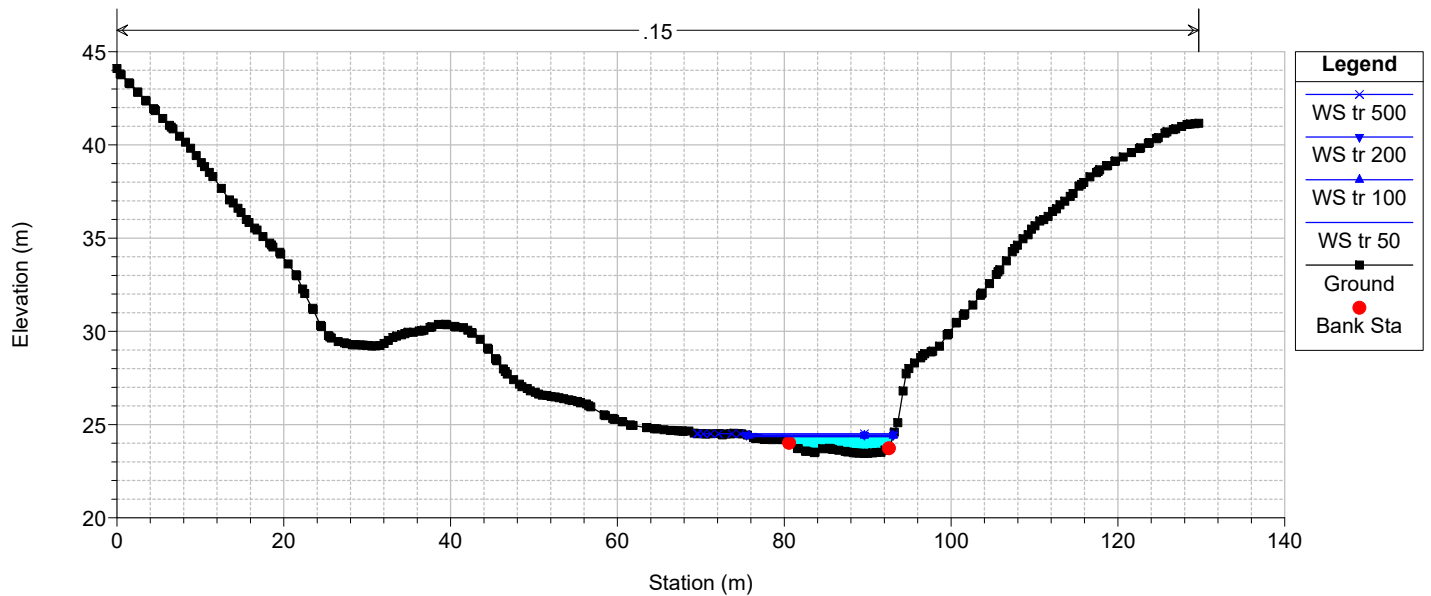
River = Argentiera Reach = Asta RS = 419.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

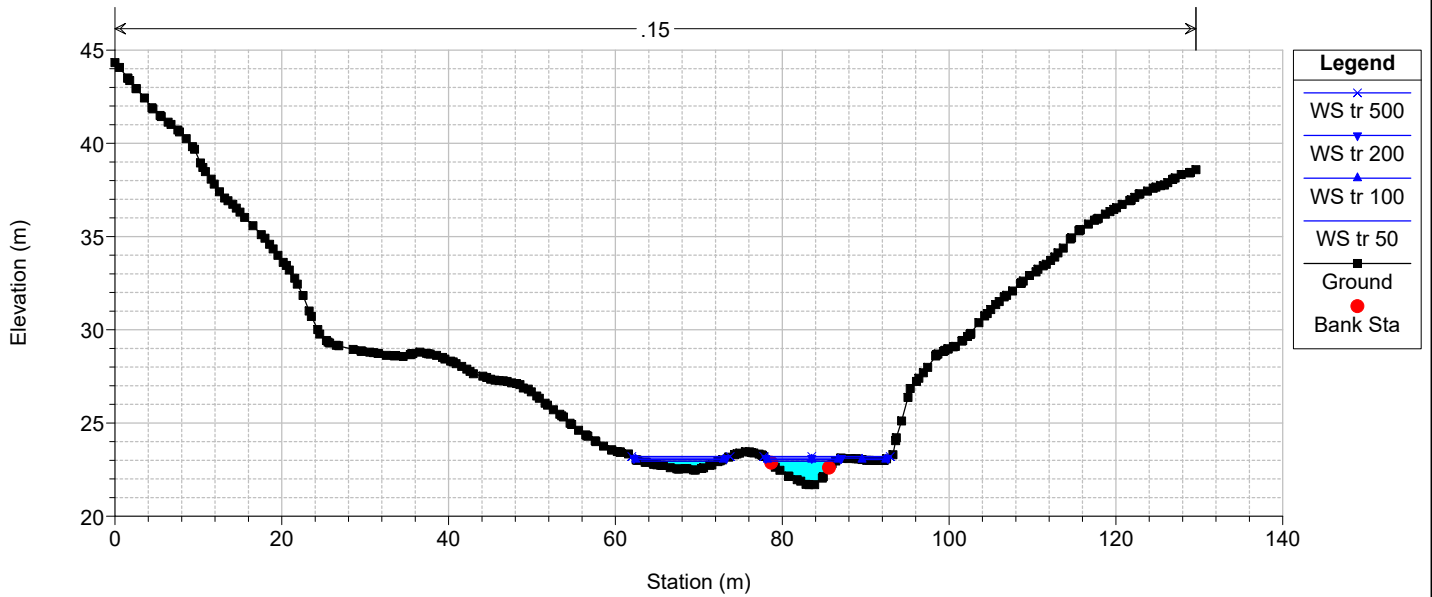
River = Argentiera Reach = Asta RS = 404.614 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

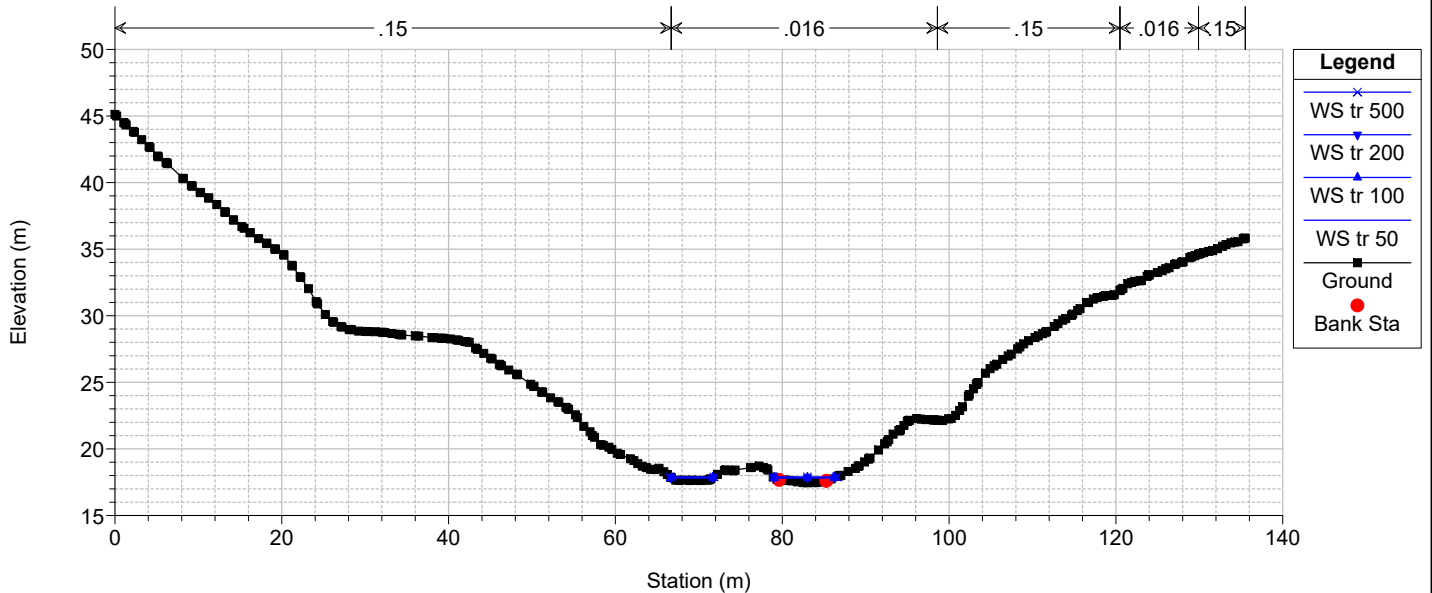
River = Argentiera Reach = Asta RS = 395.4275 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

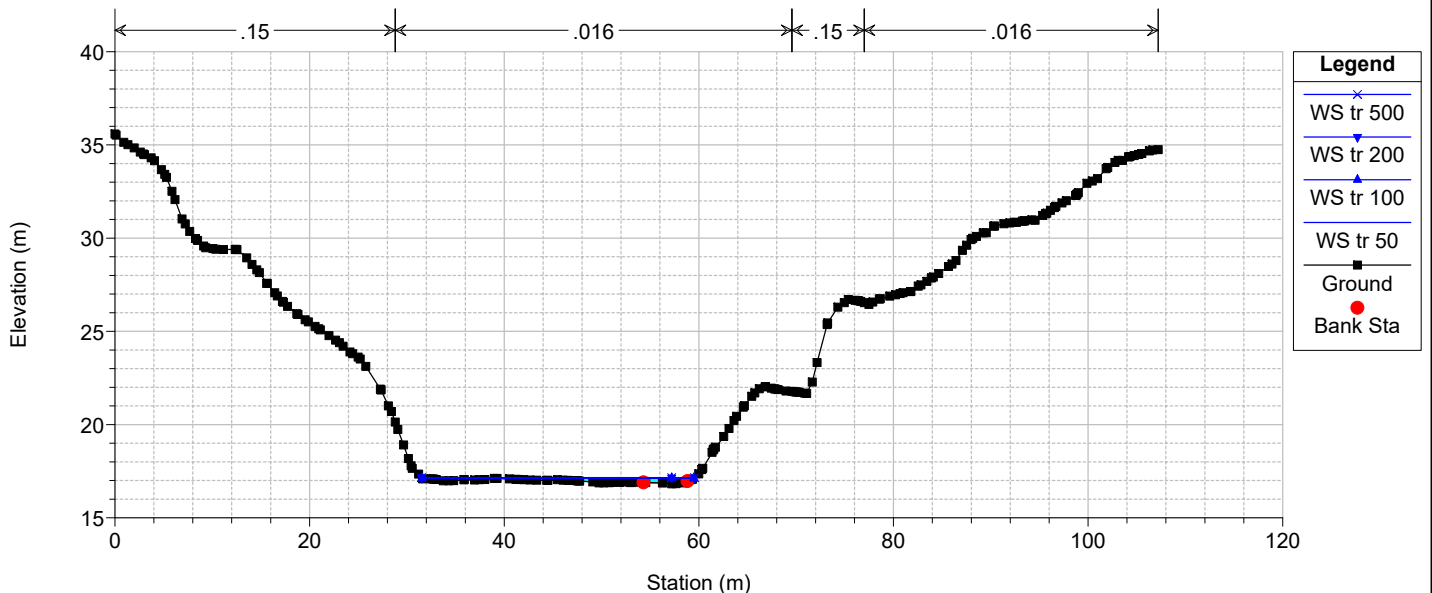
River = Argentiera Reach = Asta RS = 382.0356 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

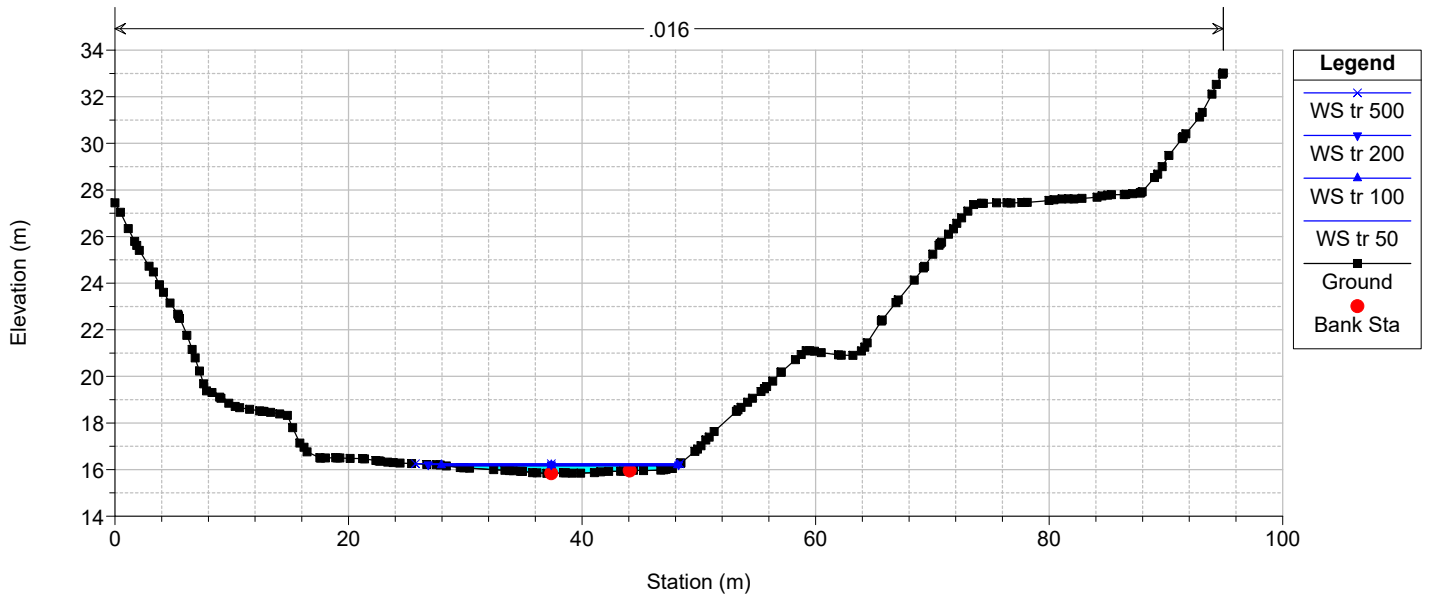
River = Argentiera Reach = Asta RS = 360.9618 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

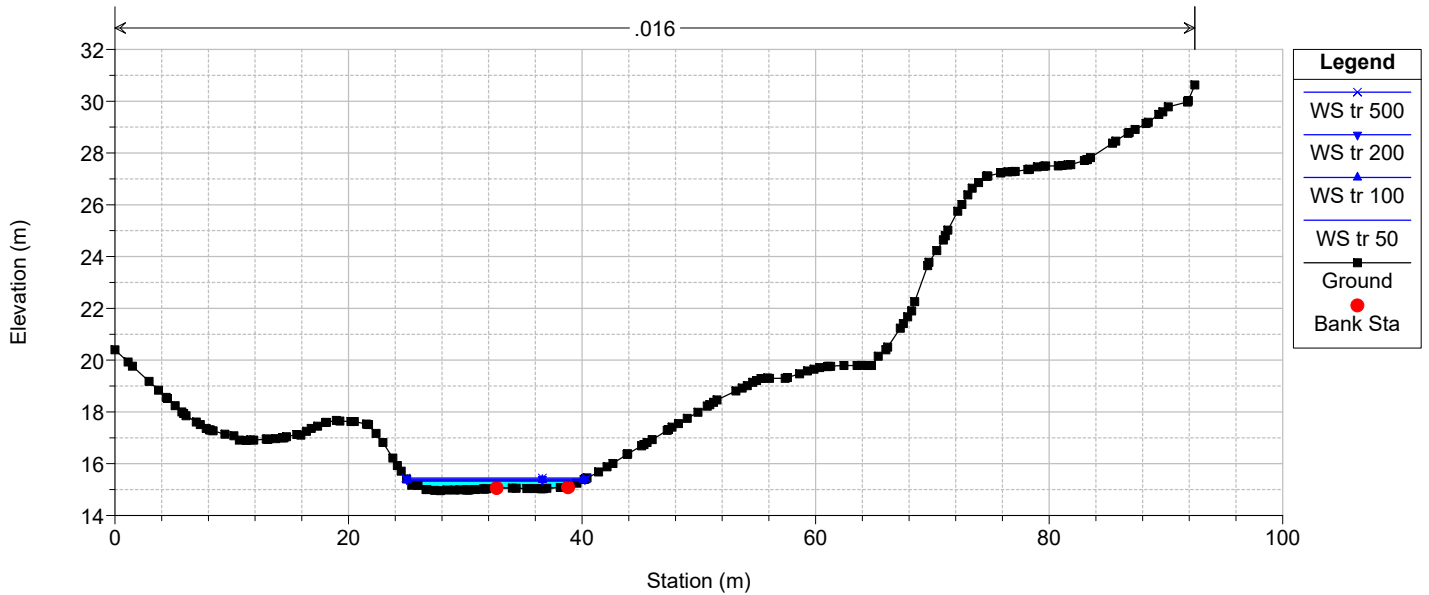
River = Argentiera Reach = Asta RS = 342.7074 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

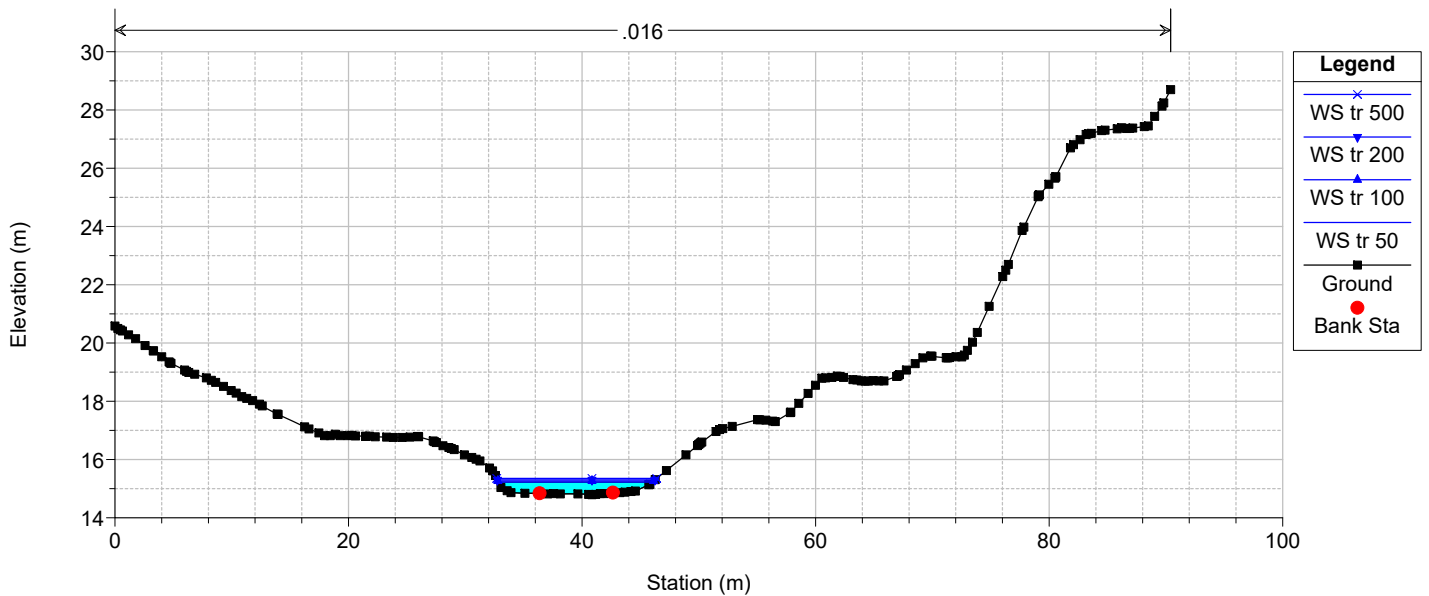
River = Argentiera Reach = Asta RS = 319.9041 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

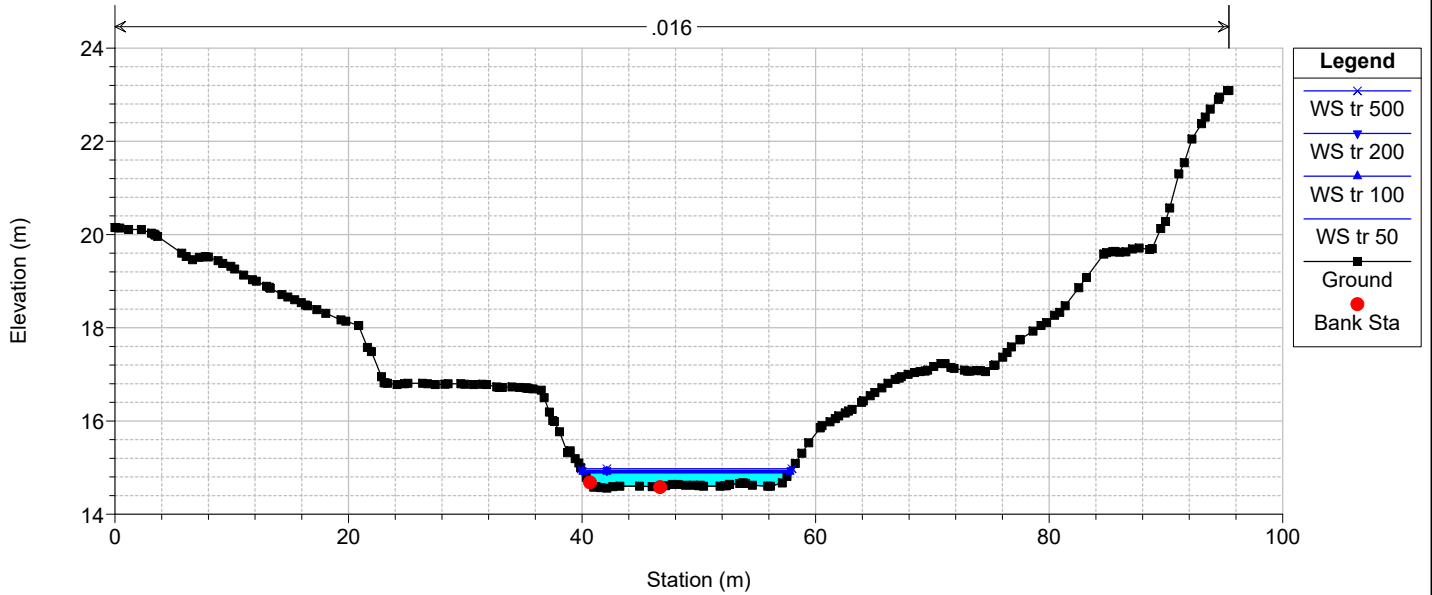
River = Argentiera Reach = Asta RS = 309.4038 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

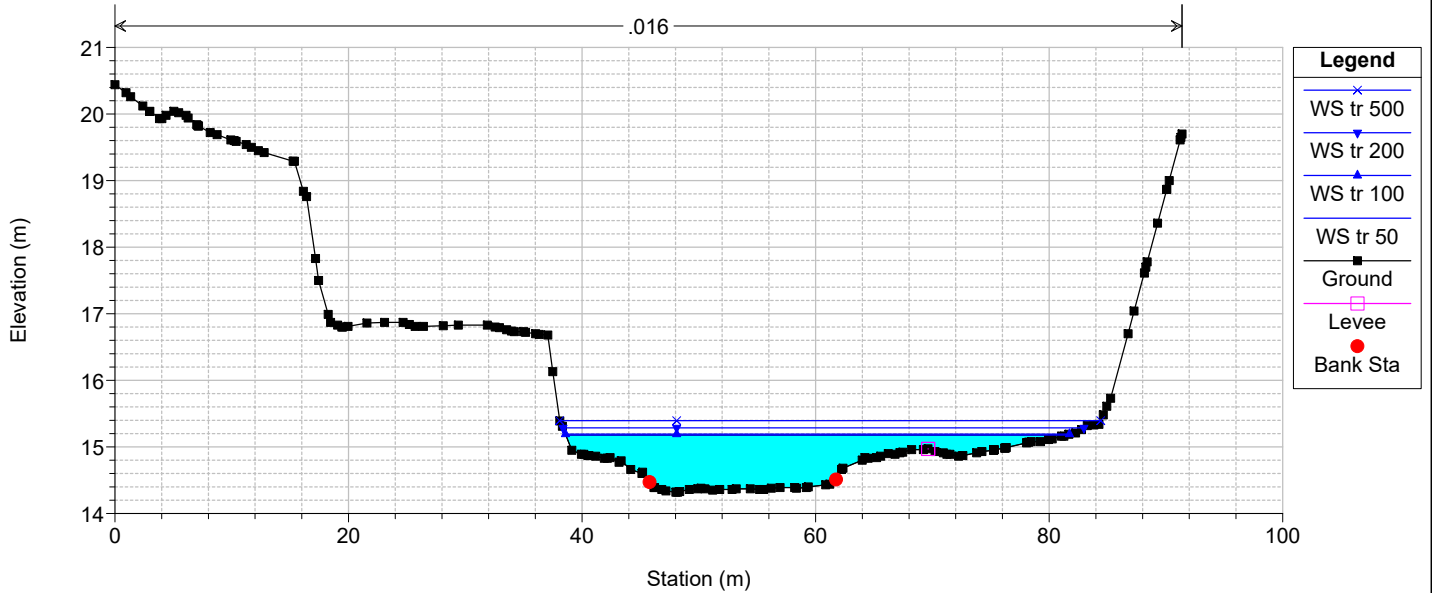
River = Argentiera Reach = Asta RS = 293.3263 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

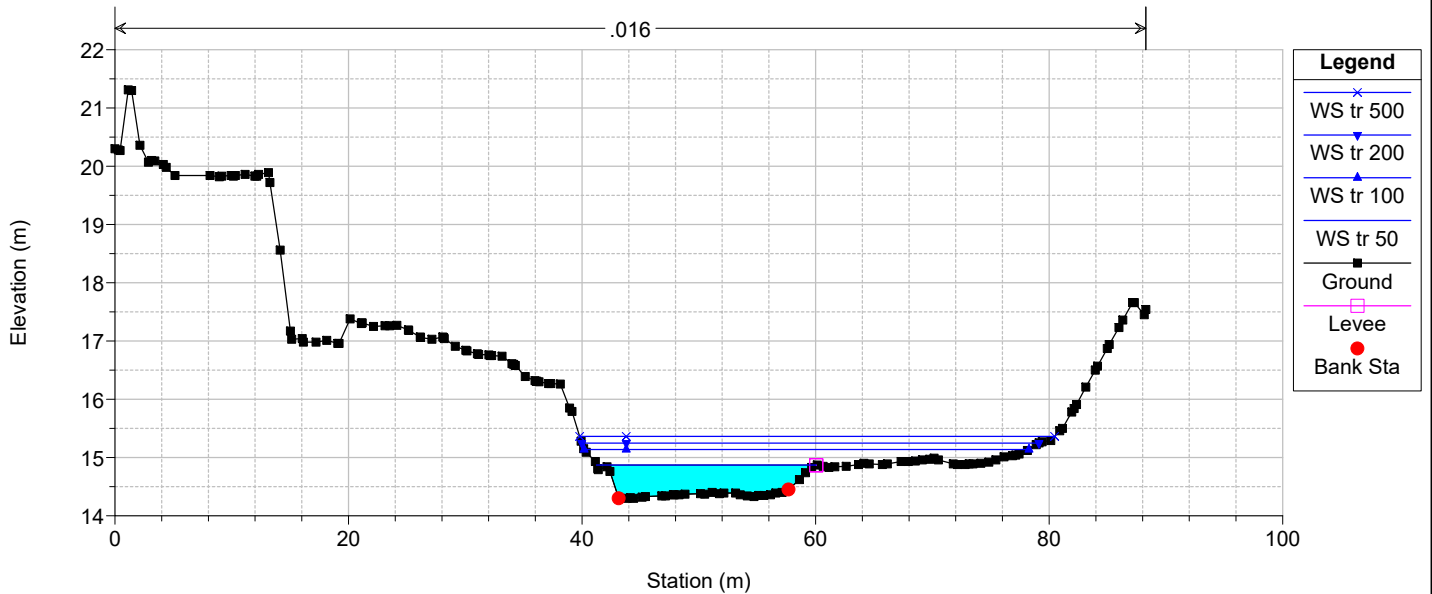
River = Argentiera Reach = Asta RS = 262.0978 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

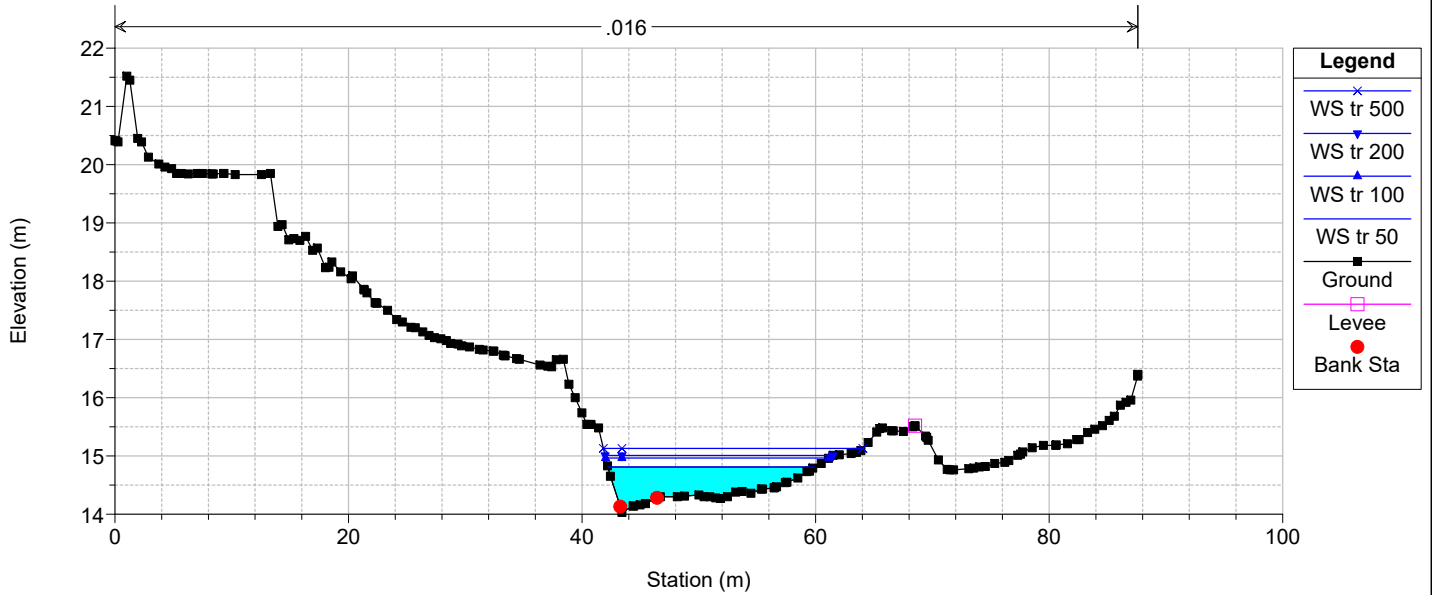
River = Argentiera Reach = Asta RS = 251.6194 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

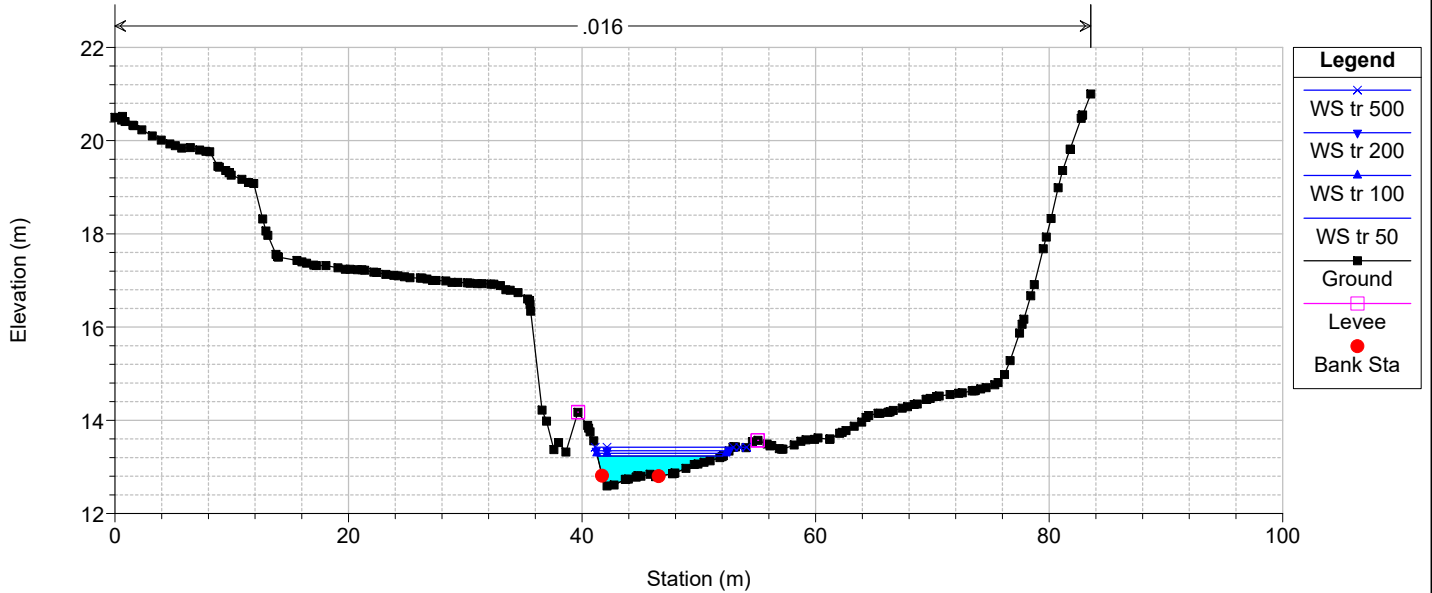
River = Argentiera Reach = Asta RS = 247.8209 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

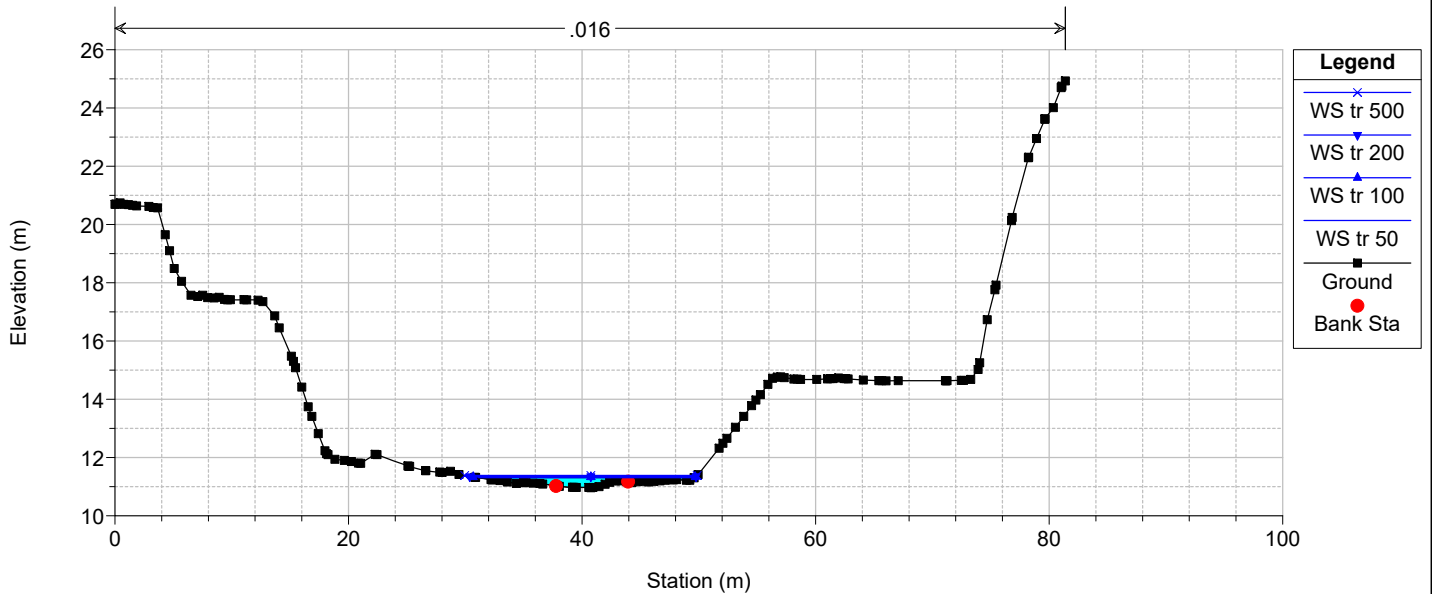
River = Argentiera Reach = Asta RS = 240.6545 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

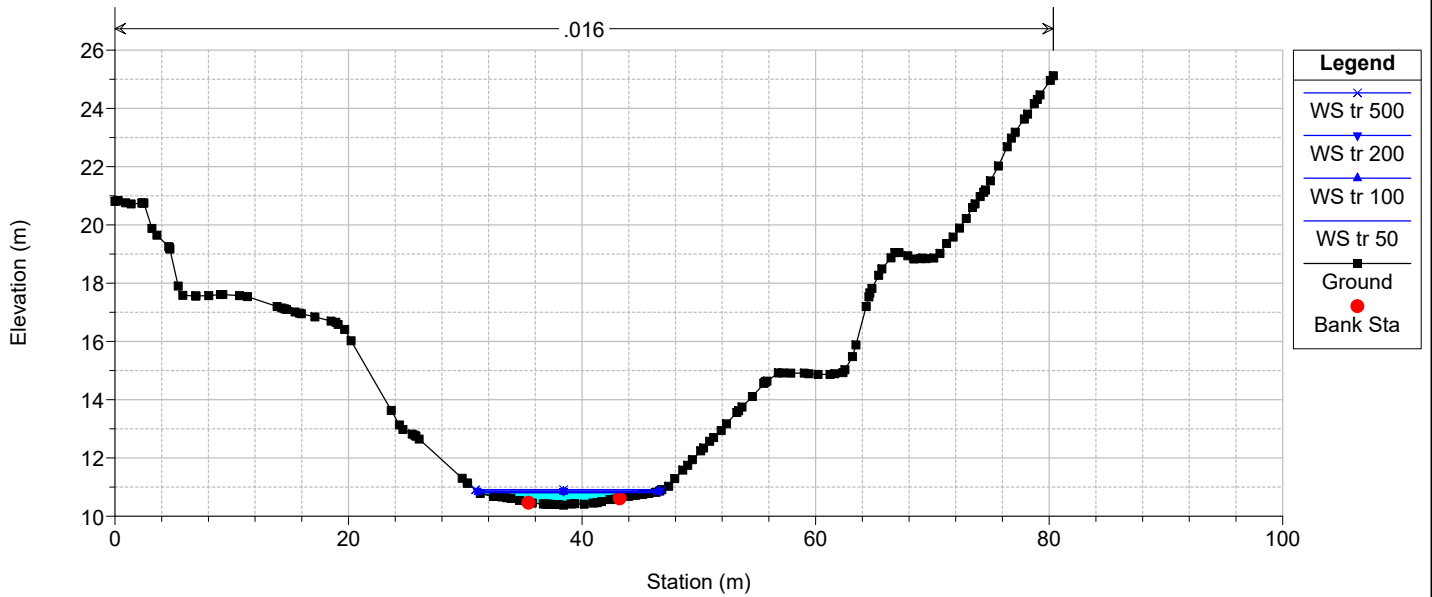
River = Argentiera Reach = Asta RS = 215.3117 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

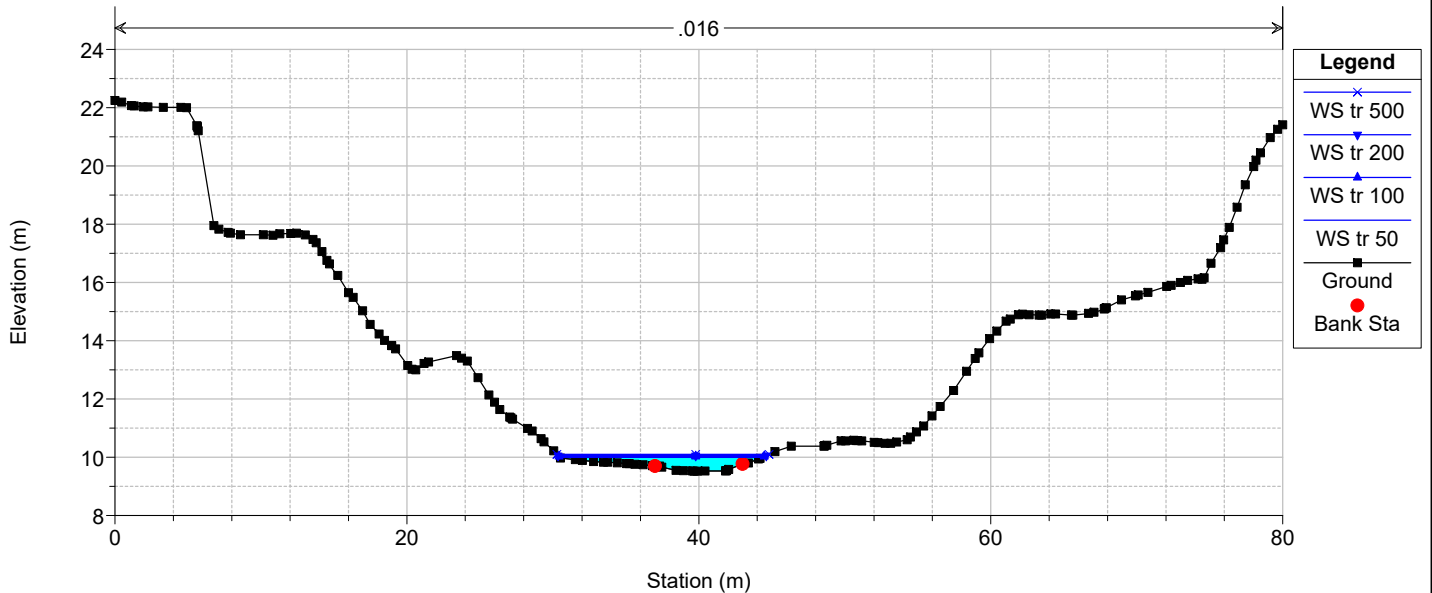
River = Argentiera Reach = Asta RS = 197.4931 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

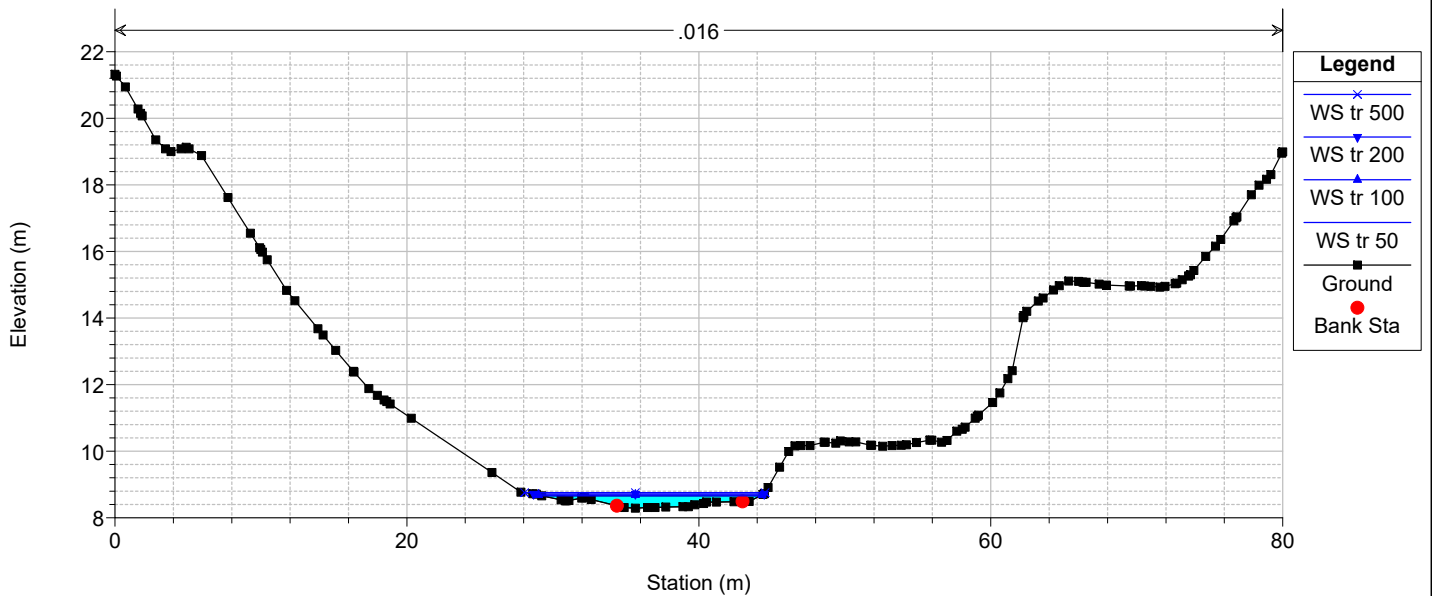
River = Argentiera Reach = Asta RS = 179.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

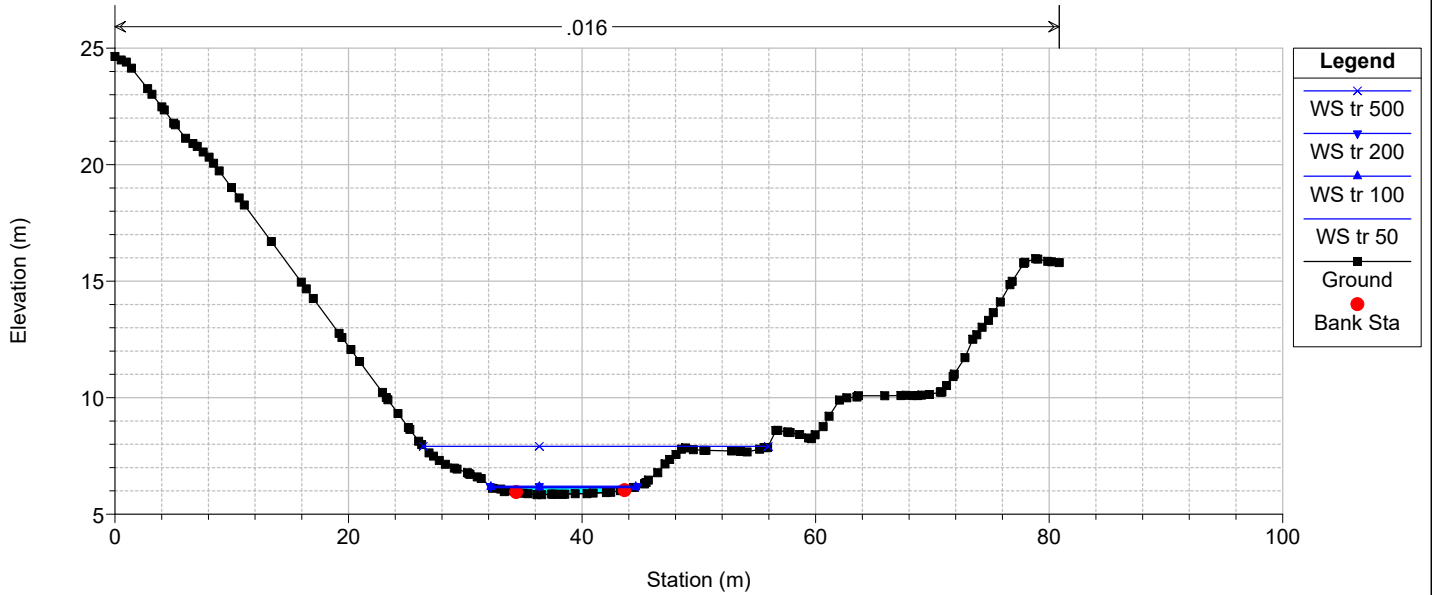
River = Argentiera Reach = Asta RS = 160 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

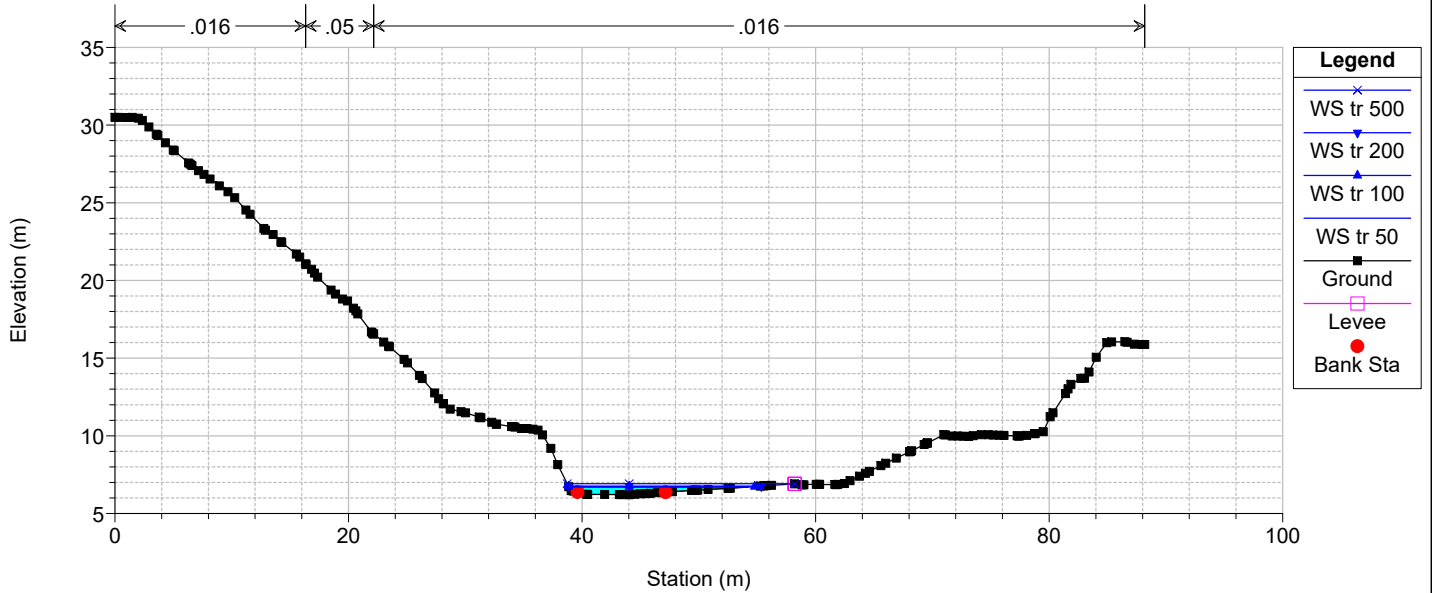
River = Argentiera Reach = Asta RS = 146.7095 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

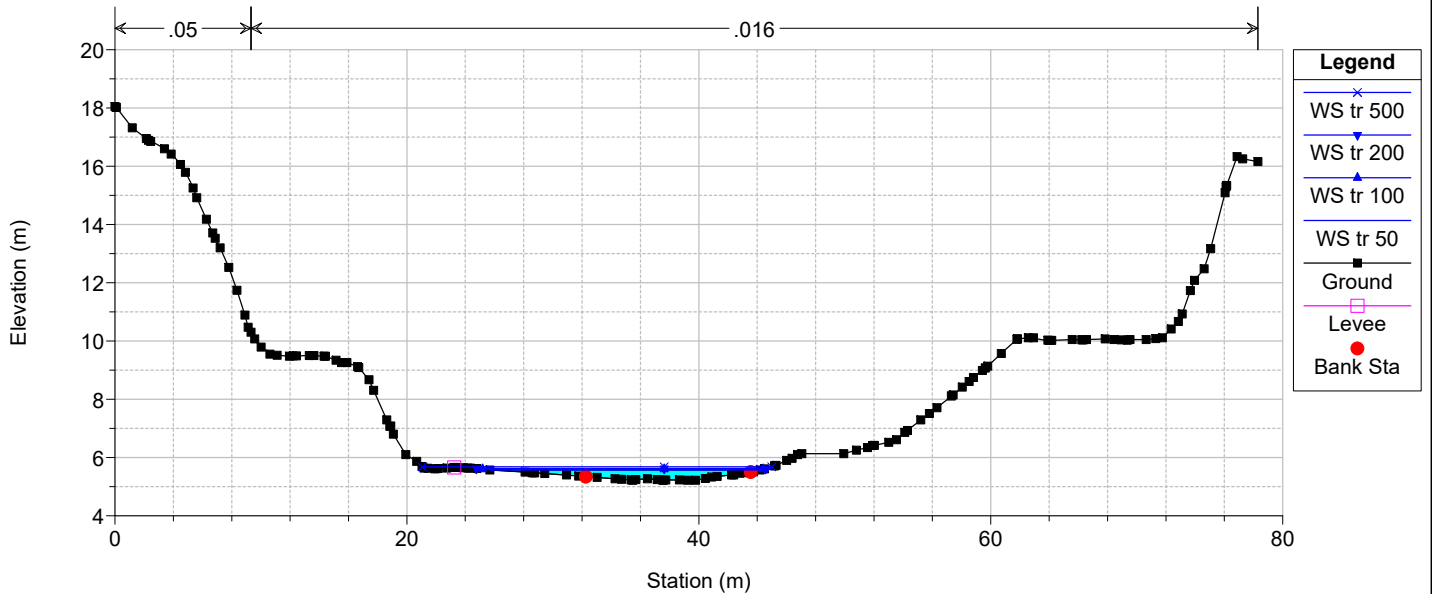
River = Argentiera Reach = Asta RS = 118.8673 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

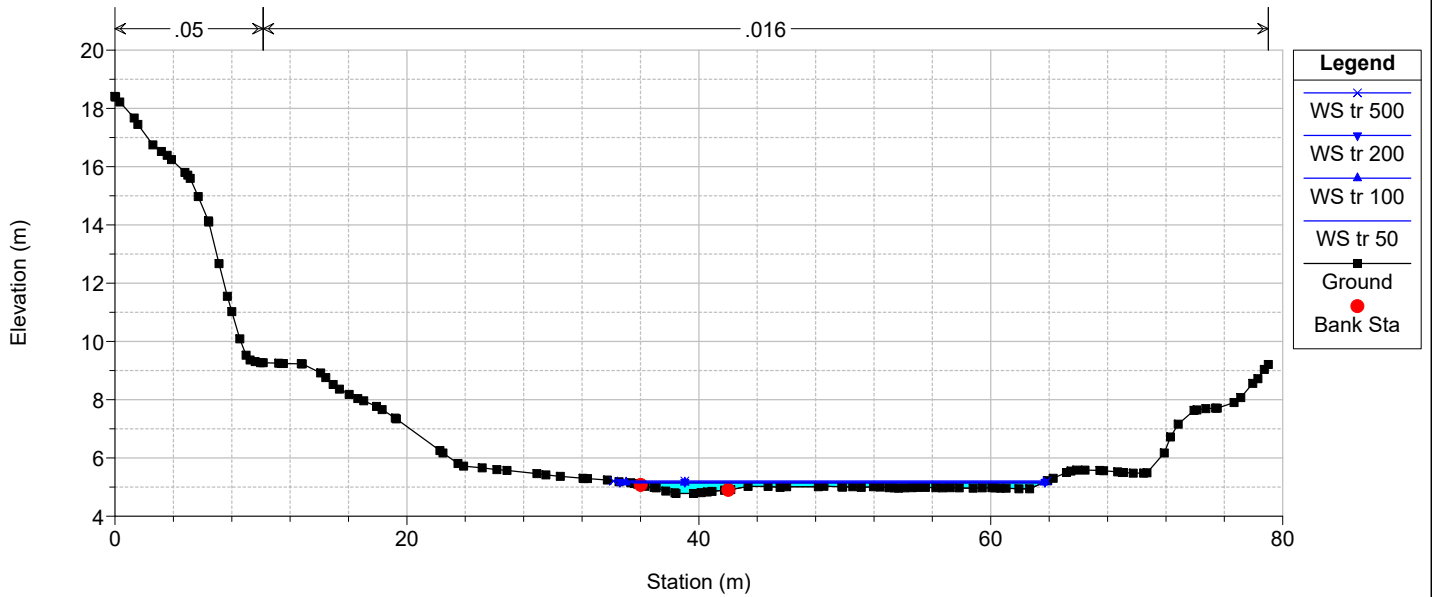
River = Argentiera Reach = Asta RS = 97.27415 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

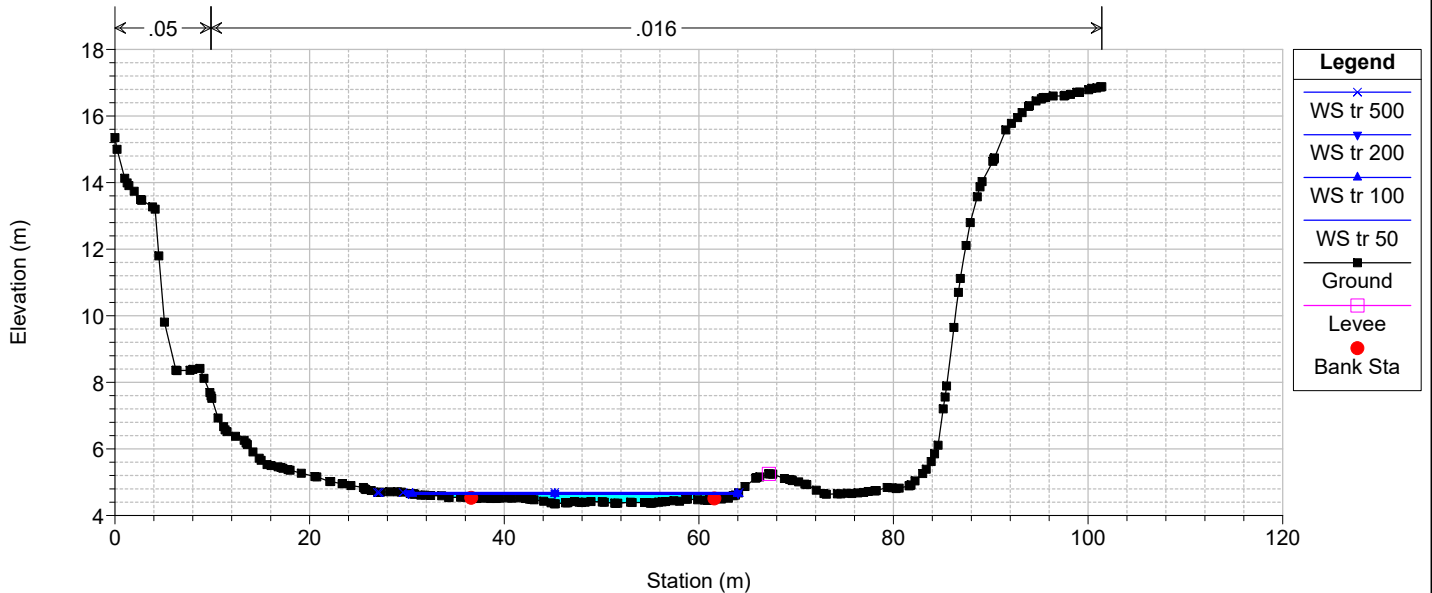
River = Argentiera Reach = Asta RS = 77.06921 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

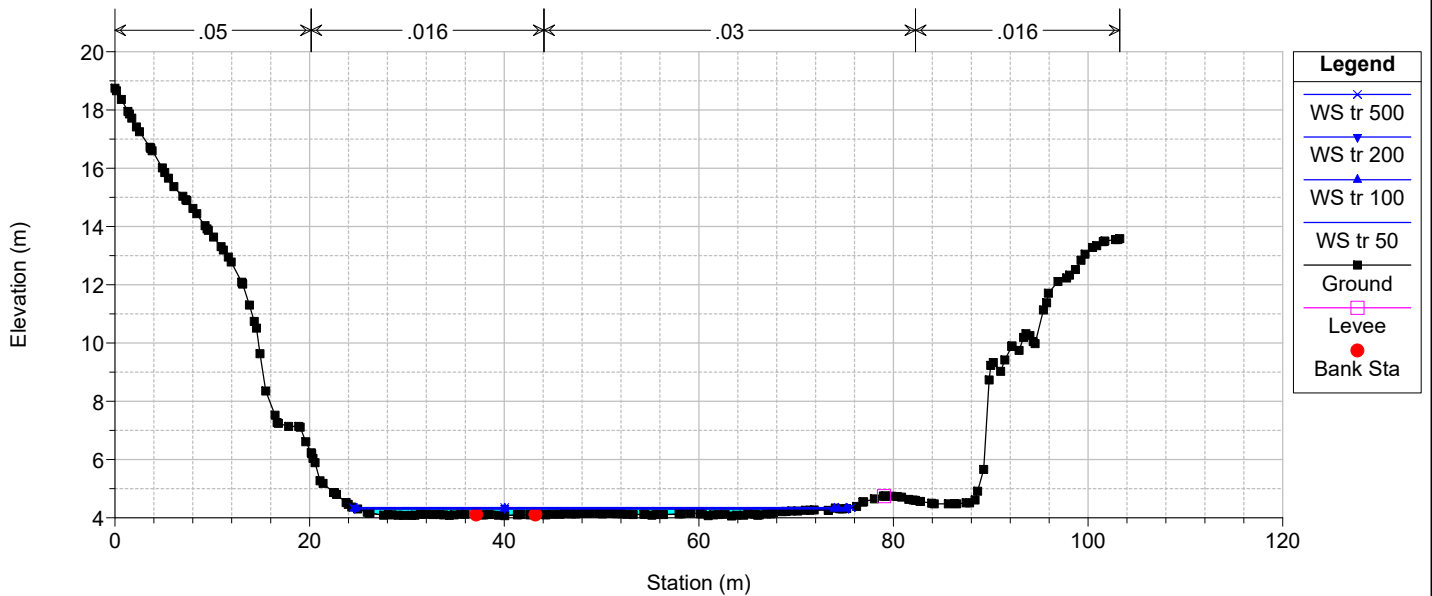
River = Argentiera Reach = Asta RS = 59.99981 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

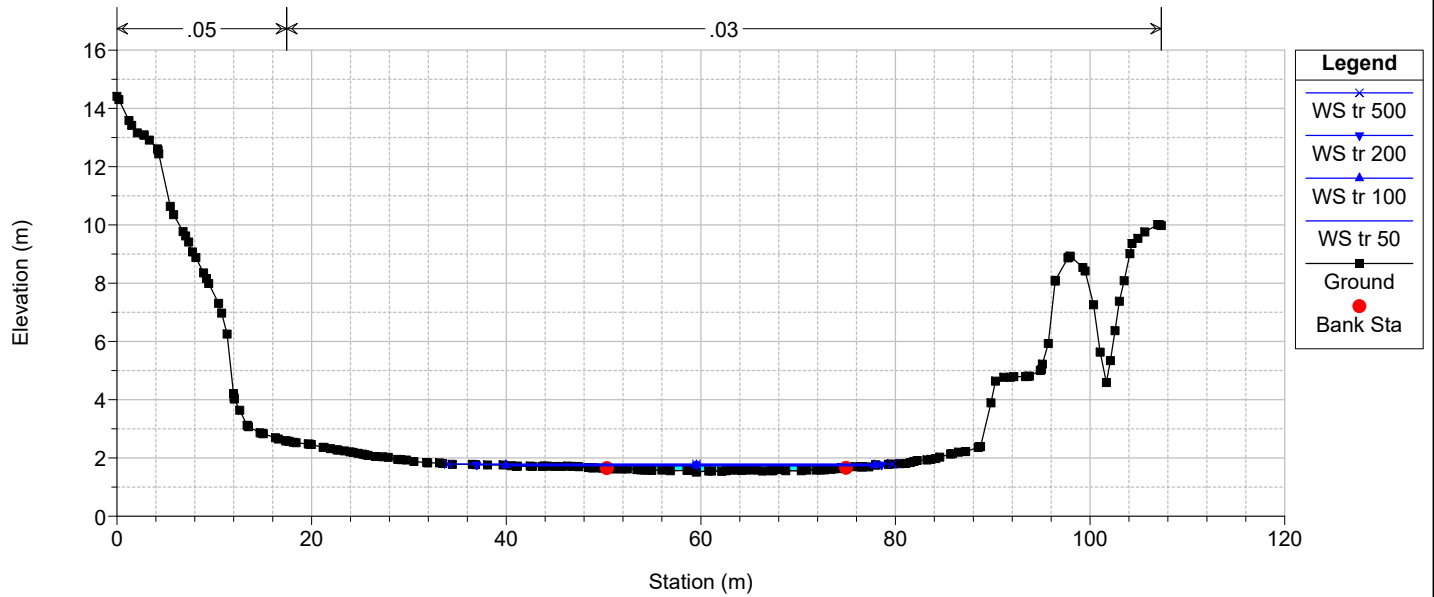
River = Argentiera Reach = Asta RS = 42.37476 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

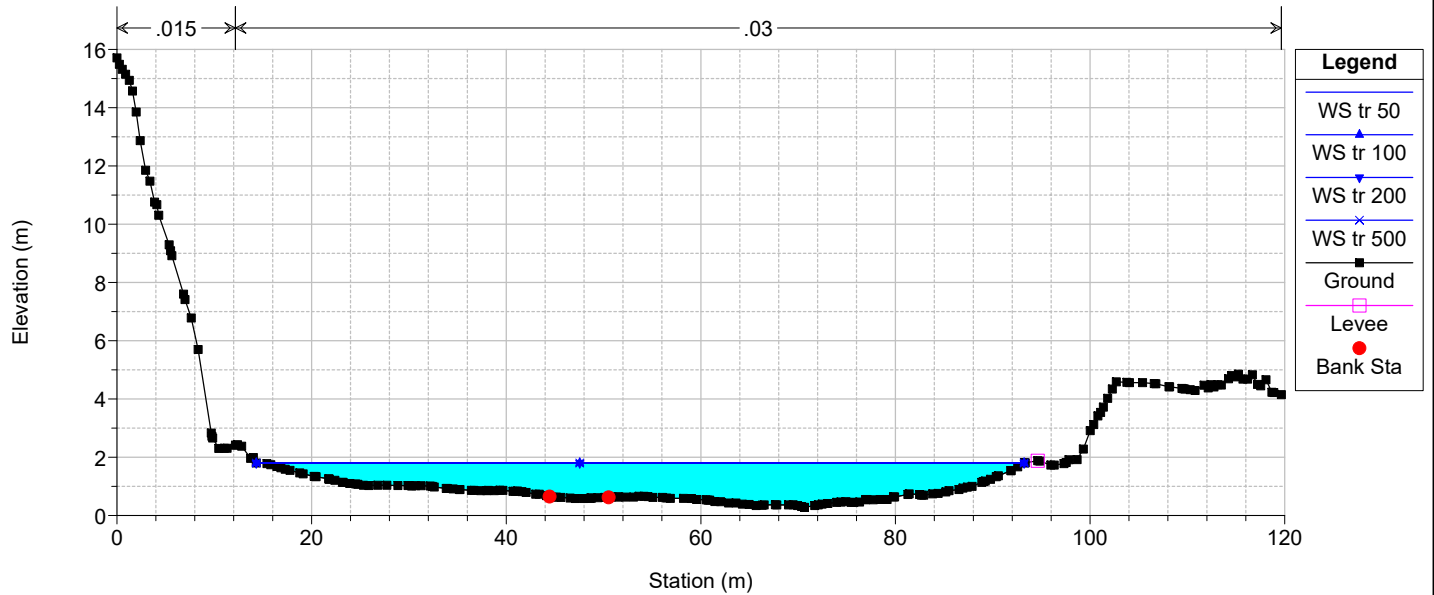
River = Argentiera Reach = Asta RS = 19.50446 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



argentiera27092016 Plan: Plan 01 11/02/2021

Geom: argentiera27092016 Flow: argentiera27092016

River = Argentiera Reach = Asta RS = 1.248311 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Asta	1200	tr 50	13.70	55.71	56.76	56.57	56.85	0.058582	1.48	11.43	21.92	0.50
Asta	1200	tr 100	16.05	55.71	56.82	56.62	56.92	0.058977	1.56	12.85	23.32	0.51
Asta	1200	tr 200	18.49	55.71	56.88	56.67	56.98	0.058350	1.61	14.34	24.24	0.51
Asta	1200	tr 500	21.98	55.71	56.97	56.73	57.08	0.057745	1.69	16.49	25.79	0.52
Asta	1180	tr 50	13.70	54.87	55.75		55.82	0.044844	1.20	12.44	18.30	0.43
Asta	1180	tr 100	16.05	54.87	55.83		55.90	0.043419	1.26	13.92	18.61	0.43
Asta	1180	tr 200	18.49	54.87	55.91		55.98	0.042532	1.32	15.34	18.91	0.43
Asta	1180	tr 500	21.98	54.87	56.01		56.09	0.041606	1.40	17.28	19.28	0.44
Asta	1160	tr 50	13.70	53.92	54.94		55.00	0.036157	1.19	12.44	16.70	0.40
Asta	1160	tr 100	16.05	53.92	55.01		55.09	0.037019	1.27	13.73	17.16	0.41
Asta	1160	tr 200	18.49	53.92	55.09		55.17	0.037694	1.35	15.02	17.61	0.42
Asta	1160	tr 500	21.98	53.92	55.19		55.28	0.038477	1.44	16.78	18.20	0.43
Asta	1140	tr 50	13.70	53.08	53.97		54.06	0.063553	1.40	10.90	17.31	0.51
Asta	1140	tr 100	16.05	53.08	54.04		54.14	0.062570	1.47	12.13	17.60	0.51
Asta	1140	tr 200	18.49	53.08	54.11		54.21	0.062049	1.54	13.33	17.87	0.52
Asta	1140	tr 500	21.98	53.08	54.20		54.32	0.061517	1.63	14.95	18.20	0.52
Asta	1120	tr 50	13.70	51.40	52.32		52.41	0.091993	1.24	10.15	18.07	0.54
Asta	1120	tr 100	16.05	51.40	52.37		52.48	0.095404	1.33	11.10	18.28	0.56
Asta	1120	tr 200	18.49	51.40	52.43		52.55	0.097578	1.41	12.06	18.48	0.57
Asta	1120	tr 500	21.98	51.40	52.49		52.63	0.100298	1.52	13.34	18.74	0.59
Asta	1100	tr 50	13.70	50.06	51.06		51.12	0.042609	1.10	13.01	19.31	0.41
Asta	1100	tr 100	16.05	50.06	51.14		51.21	0.040150	1.15	14.66	19.62	0.40
Asta	1100	tr 200	18.49	50.06	51.23		51.29	0.038360	1.20	16.28	19.93	0.40
Asta	1100	tr 500	21.98	50.06	51.34		51.41	0.036077	1.26	18.57	20.45	0.40
Asta	1080	tr 50	17.87	49.08	50.23		50.31	0.037824	1.35	14.85	16.66	0.42
Asta	1080	tr 100	21.05	49.08	50.33		50.42	0.037716	1.43	16.54	17.01	0.42
Asta	1080	tr 200	24.33	49.08	50.43		50.53	0.037337	1.50	18.26	17.35	0.43
Asta	1080	tr 500	28.98	49.08	50.56		50.67	0.036758	1.60	20.60	17.81	0.43
Asta	1060	tr 50	17.87	48.03	49.47		49.55	0.035167	1.39	14.78	15.76	0.41
Asta	1060	tr 100	21.05	48.03	49.59		49.68	0.033484	1.45	16.76	16.21	0.40
Asta	1060	tr 200	24.33	48.03	49.71		49.80	0.032488	1.51	18.65	16.61	0.40
Asta	1060	tr 500	28.98	48.03	49.86		49.96	0.031413	1.59	21.22	17.15	0.40
Asta	1040	tr 50	17.87	47.40	49.01		49.07	0.018546	1.18	17.56	14.94	0.31
Asta	1040	tr 100	21.05	47.40	49.13		49.20	0.019457	1.27	19.35	15.42	0.32
Asta	1040	tr 200	24.33	47.40	49.24		49.32	0.020265	1.35	21.11	15.88	0.33
Asta	1040	tr 500	28.98	47.40	49.39		49.47	0.021324	1.46	23.42	16.43	0.34
Asta	1020	tr 50	17.87	46.55	48.52	48.02	48.61	0.032504	1.53	15.16	17.43	0.39
Asta	1020	tr 100	21.05	46.55	48.62	48.09	48.72	0.033456	1.62	16.92	18.03	0.40
Asta	1020	tr 200	24.33	46.55	48.72	48.16	48.82	0.033843	1.70	18.76	18.71	0.41
Asta	1020	tr 500	28.98	46.55	48.84	48.26	48.95	0.035359	1.81	21.02	19.61	0.42
Asta	1000	tr 50	17.87	45.95	47.07	47.07	47.34	0.187884	2.56	8.38	15.14	0.88
Asta	1000	tr 100	21.05	45.95	47.14	47.14	47.43	0.185065	2.68	9.46	15.60	0.89
Asta	1000	tr 200	24.33	45.95	47.20	47.20	47.52	0.189374	2.82	10.40	16.05	0.91
Asta	1000	tr 500	28.98	45.95	47.29	47.29	47.64	0.180671	2.93	11.97	16.70	0.90
Asta	981.4691	tr 50	17.87	45.15	45.79	46.06	46.70	0.011889	4.52	4.57	12.65	1.96
Asta	981.4691	tr 100	21.05	45.15	45.84	46.13	46.81	0.011414	4.71	5.23	13.35	1.95
Asta	981.4691	tr 200	24.33	45.15	45.89	46.19	46.91	0.010966	4.87	5.92	13.80	1.94
Asta	981.4691	tr 500	28.98	45.15	45.96	46.28	47.05	0.010478	5.09	6.87	15.21	1.92
Asta	957.7764	tr 50	17.87	44.59	44.81	45.05	46.11	0.075144	5.42	3.57	23.11	4.10
Asta	957.7764	tr 100	21.05	44.59	44.83	45.09	46.24	0.070299	5.63	4.05	23.46	4.04
Asta	957.7764	tr 200	24.33	44.59	44.85	45.13	46.36	0.066097	5.82	4.52	23.75	3.98
Asta	957.7764	tr 500	28.98	44.59	44.88	45.19	46.51	0.060840	6.04	5.17	23.96	3.89
Asta	939.9998	tr 50	17.87	44.21	44.64	44.82	45.32	0.019127	4.06	5.29	25.36	2.28
Asta	939.9998	tr 100	21.05	44.21	44.66	44.86	45.44	0.020289	4.35	5.80	25.53	2.37
Asta	939.9998	tr 200	24.33	44.21	44.68	44.90	45.55	0.021264	4.62	6.29	25.69	2.45
Asta	939.9998	tr 500	28.98	44.21	44.71	44.96	45.71	0.022514	4.97	6.94	25.89	2.55
Asta	920	tr 50	17.87	43.31	43.80	44.06	44.62	0.083476	3.99	4.49	13.23	2.15
Asta	920	tr 100	21.05	43.31	43.85	44.11	44.73	0.074535	4.17	5.08	13.43	2.12
Asta	920	tr 200	24.33	43.31	43.89	44.16	44.85	0.068150	4.34	5.66	14.81	2.10
Asta	920	tr 500	28.98	43.31	43.94	44.22	45.00	0.063126	4.59	6.49	17.72	2.09
Asta	900.0001	tr 50	17.87	42.78	43.28	43.41	43.74	0.021870	3.04	6.54	18.36	1.54
Asta	900.0001	tr 100	21.05	42.78	43.32	43.50	43.85	0.023709	3.29	7.17	19.84	1.60
Asta	900.0001	tr 200	24.33	42.78	43.35	43.55	43.96	0.025317	3.52	7.82	21.04	1.66
Asta	900.0001	tr 500	28.98	42.78	43.39	43.61	44.10	0.027282	3.80	8.68	21.63	1.72
Asta	879.9999	tr 50	17.87	40.80	41.06	41.38	42.89	0.069000	6.48	3.05	14.88	4.16
Asta	879.9999	tr 100	21.05	40.80	41.10	41.43	43.00	0.061472	6.63	3.53	15.42	4.00
Asta	879.9999	tr 200	24.33	40.80	41.13	41.49	43.10	0.055371	6.79	4.08	17.25	3.87

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	879.9999	tr 500	28.98	40.80	41.17	41.55	43.24	0.050574	6.99	4.73	17.64	3.77
Asta	859.9999	tr 50	17.87	40.35	40.64	40.85	41.70	0.035743	4.73	3.99	17.72	3.00
Asta	859.9999	tr 100	21.05	40.35	40.66	40.90	41.87	0.036121	5.05	4.42	18.05	3.06
Asta	859.9999	tr 200	24.33	40.35	40.69	40.94	42.04	0.036378	5.35	4.85	18.68	3.12
Asta	859.9999	tr 500	28.98	40.35	40.69	40.99	42.17	0.040269	5.74	5.72	25.17	3.29
Asta	842.7241	tr 50	17.87	39.42	39.91	40.18	41.13	0.028376	5.38	3.96	17.49	2.84
Asta	842.7241	tr 100	21.05	39.42	39.93	40.21	41.29	0.029098	5.71	4.44	18.52	2.91
Asta	842.7241	tr 200	24.33	39.42	39.96	40.25	41.45	0.029875	6.03	4.91	19.65	2.98
Asta	842.7241	tr 500	28.98	39.42	40.00	40.30	41.57	0.028719	6.27	5.71	21.55	2.96
Asta	815.8923	tr 50	17.87	37.72	38.17	38.55	40.14	0.039849	6.58	3.10	11.66	3.39
Asta	815.8923	tr 100	21.05	37.72	38.20	38.61	40.31	0.038183	6.86	3.55	12.41	3.37
Asta	815.8923	tr 200	24.33	37.72	38.24	38.68	40.47	0.037015	7.12	3.98	12.88	3.36
Asta	815.8923	tr 500	28.98	37.72	38.29	38.76	40.64	0.034553	7.37	4.65	13.97	3.31
Asta	800	tr 50	17.87	36.82	37.38	37.67	39.48	0.040540	6.75	3.36	24.59	3.42
Asta	800	tr 100	21.05	36.82	37.40	37.72	39.65	0.042316	7.14	3.90	25.15	3.53
Asta	800	tr 200	24.33	36.82	37.42	37.75	39.81	0.044028	7.51	4.38	25.40	3.63
Asta	800	tr 500	28.98	36.82	37.44	37.80	39.98	0.045420	7.92	5.02	25.73	3.72
Asta	784.4597	tr 50	17.87	36.36	36.64	36.90	38.54	0.084249	7.07	3.23	22.48	4.58
Asta	784.4597	tr 100	21.05	36.36	36.66	36.94	38.69	0.082462	7.37	3.69	24.07	4.59
Asta	784.4597	tr 200	24.33	36.36	36.68	36.97	38.82	0.081027	7.63	4.12	24.74	4.59
Asta	784.4597	tr 500	28.98	36.36	36.70	37.02	38.99	0.078895	7.94	4.72	25.75	4.60
Asta	760.5936	tr 50	17.87	35.63	36.00	36.27	37.15	0.032391	4.76	3.77	15.19	2.89
Asta	760.5936	tr 100	21.05	35.63	36.02	36.32	37.32	0.031918	5.05	4.25	17.53	2.92
Asta	760.5936	tr 200	24.33	35.63	36.05	36.36	37.47	0.031441	5.31	4.76	19.65	2.94
Asta	760.5936	tr 500	28.98	35.63	36.09	36.42	37.66	0.030991	5.63	5.49	21.89	2.97
Asta	738.1095	tr 50	17.87	34.76	35.15	35.39	36.29	0.045705	4.74	3.81	19.12	3.29
Asta	738.1095	tr 100	21.05	34.76	35.17	35.43	36.47	0.045731	5.06	4.25	21.44	3.34
Asta	738.1095	tr 200	24.33	34.76	35.19	35.47	36.63	0.045660	5.35	4.70	22.90	3.39
Asta	738.1095	tr 500	28.98	34.76	35.22	35.53	36.83	0.044835	5.68	5.39	26.31	3.41
Asta	715.7645	tr 50	17.87	34.37	34.37	34.59	35.33	0.029087	0.28	4.14	18.46	1.37
Asta	715.7645	tr 100	21.05	34.37	34.40	34.62	35.48	0.030077	0.79	4.65	23.59	1.80
Asta	715.7645	tr 200	24.33	34.37	34.42	34.67	35.61	0.031725	1.11	5.18	28.50	2.00
Asta	715.7645	tr 500	28.98	34.37	34.44	34.70	35.77	0.033769	1.63	5.92	32.49	2.25
Asta	700	tr 50	17.87	34.20	34.40	34.53	34.85	0.022573	2.81	6.08	35.18	2.22
Asta	700	tr 100	21.05	34.20	34.41	34.56	34.96	0.025475	3.13	6.53	36.72	2.38
Asta	700	tr 200	24.33	34.20	34.43	34.59	35.06	0.027394	3.41	7.00	37.00	2.50
Asta	700	tr 500	28.98	34.20	34.44	34.64	35.19	0.029049	3.73	7.68	37.41	2.62
Asta	680	tr 50	17.87	33.84	34.05	34.16	34.43	0.019198	2.37	6.96	47.31	2.00
Asta	680	tr 100	21.05	33.84	34.07	34.18	34.50	0.019875	2.57	7.66	47.40	2.07
Asta	680	tr 200	24.33	33.84	34.08	34.21	34.56	0.020642	2.77	8.31	47.48	2.13
Asta	680	tr 500	28.98	33.84	34.10	34.25	34.65	0.021654	3.03	9.15	47.59	2.22
Asta	658.6984	tr 50	17.87	33.59	33.89	33.96	34.15	0.008476	2.41	8.27	39.67	1.48
Asta	658.6984	tr 100	21.05	33.59	33.91	33.99	34.20	0.008384	2.54	9.29	40.35	1.49
Asta	658.6984	tr 200	24.33	33.59	33.93	34.02	34.25	0.008629	2.70	10.12	40.53	1.53
Asta	658.6984	tr 500	28.98	33.59	33.96	34.06	34.32	0.008810	2.88	11.25	40.77	1.57
Asta	641.2667	tr 50	17.87	33.40	33.75	33.83	33.99	0.008271	2.46	8.39	37.80	1.47
Asta	641.2667	tr 100	21.05	33.40	33.78	33.87	34.05	0.008087	2.59	9.58	42.26	1.48
Asta	641.2667	tr 200	24.33	33.40	33.81	33.90	34.10	0.007863	2.70	10.77	46.55	1.48
Asta	641.2667	tr 500	28.98	33.40	33.84	33.93	34.16	0.007999	2.89	12.29	49.95	1.51
Asta	620.6393	tr 50	17.87	33.06	33.63	33.65	33.91	0.004760	2.56	7.77	22.58	1.20
Asta	620.6393	tr 100	21.05	33.06	33.78	33.79	33.94	0.002632	2.27	12.89	38.72	0.93
Asta	620.6393	tr 200	24.33	33.06	33.81	33.82	33.99	0.002711	2.38	14.03	38.80	0.95
Asta	620.6393	tr 500	28.98	33.06	33.85	33.86	34.05	0.002784	2.51	15.56	38.90	0.97
Asta	609.0926	tr 50	17.87	32.84	33.30	33.44	33.78	0.014623	4.00	6.31	31.64	2.03
Asta	609.0926	tr 100	21.05	32.84	33.33	33.47	33.84	0.014695	4.17	7.32	33.96	2.05
Asta	609.0926	tr 200	24.33	32.84	33.35	33.51	33.88	0.014226	4.23	8.15	34.29	2.03
Asta	609.0926	tr 500	28.98	32.84	33.39	33.55	33.94	0.013677	4.32	9.38	36.03	2.01
Asta	595.178	tr 50	17.87	32.56	33.15	33.24	33.65	0.006543	3.17	5.95	15.46	1.43
Asta	595.178	tr 100	21.05	32.56	33.30	33.30	33.43	0.001637	1.88	15.82	57.28	0.75
Asta	595.178	tr 200	24.33	32.56	33.32	33.32	33.47	0.001843	2.04	17.04	59.37	0.80
Asta	595.178	tr 500	28.98	32.56	33.38	33.38	33.52	0.001654	2.04	20.47	59.73	0.77
Asta	574.1277	tr 50	17.87	32.16	32.65	32.87	33.39	0.022907	4.29	5.22	20.48	2.16
Asta	574.1277	tr 100	21.05	32.16	32.73	32.92	33.30	0.014210	3.76	6.90	21.99	1.73
Asta	574.1277	tr 200	24.33	32.16	32.78	32.95	33.34	0.012093	3.69	8.03	22.57	1.61
Asta	574.1277	tr 500	28.98	32.16	32.85	33.03	33.40	0.010575	3.72	9.68	25.15	1.53
Asta	556.9982	tr 50	17.87	31.40	32.49	32.32	32.70	0.124877	2.04	8.99	11.76	0.72

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	556.9982	tr 100	21.05	31.40	32.58	32.40	32.81	0.126213	2.19	10.00	12.09	0.73
Asta	556.9982	tr 200	24.33	31.40	32.66	32.48	32.92	0.126860	2.32	11.01	12.51	0.75
Asta	556.9982	tr 500	28.98	31.40	32.76	32.59	33.04	0.124796	2.46	12.69	24.14	0.75
Asta	534.4843	tr 50	17.87	29.59	31.02		31.10	0.042729	1.44	14.04	15.62	0.44
Asta	534.4843	tr 100	21.05	29.59	31.12		31.21	0.042222	1.52	15.67	15.83	0.44
Asta	534.4843	tr 200	24.33	29.59	31.22		31.32	0.041803	1.60	17.27	16.02	0.45
Asta	534.4843	tr 500	28.98	29.59	31.35		31.47	0.041341	1.69	19.42	16.28	0.45
Asta	519.662	tr 50	17.87	28.92	30.31		30.42	0.049322	1.61	12.68	13.78	0.48
Asta	519.662	tr 100	21.05	28.92	30.41		30.53	0.049367	1.71	14.12	14.04	0.49
Asta	519.662	tr 200	24.33	28.92	30.51		30.65	0.049433	1.80	15.54	14.28	0.49
Asta	519.662	tr 500	28.98	28.92	30.65		30.80	0.049453	1.91	17.45	14.61	0.50
Asta	500.162	tr 50	17.87	28.20	29.45		29.55	0.040314	1.43	13.48	14.30	0.43
Asta	500.162	tr 100	21.05	28.20	29.56		29.67	0.039729	1.51	15.08	14.59	0.44
Asta	500.162	tr 200	24.33	28.20	29.67		29.79	0.039254	1.58	16.65	14.84	0.44
Asta	500.162	tr 500	28.98	28.20	29.81		29.94	0.038637	1.68	18.77	15.16	0.44
Asta	480	tr 50	17.87	27.26	28.53		28.66	0.048293	1.59	11.68	11.90	0.47
Asta	480	tr 100	21.05	27.26	28.65		28.79	0.047754	1.68	13.12	12.55	0.47
Asta	480	tr 200	24.33	27.26	28.76		28.91	0.047204	1.77	14.58	13.19	0.48
Asta	480	tr 500	28.98	27.26	28.91		29.08	0.046804	1.88	16.59	14.36	0.48
Asta	461.9778	tr 50	17.87	26.36	27.85		27.94	0.031990	1.35	13.68	12.62	0.38
Asta	461.9778	tr 100	21.05	26.36	27.98	27.34	28.08	0.031761	1.43	15.32	13.20	0.39
Asta	461.9778	tr 200	24.33	26.36	28.09	27.42	28.20	0.032598	1.52	16.76	13.66	0.40
Asta	461.9778	tr 500	28.98	26.36	28.23	27.53	28.36	0.033294	1.64	18.78	14.31	0.41
Asta	440	tr 50	17.87	25.18	26.11	26.09	26.44	0.224276	2.55	7.14	10.46	0.94
Asta	440	tr 100	21.05	25.18	26.17	26.17	26.56	0.237056	2.76	7.79	10.68	0.98
Asta	440	tr 200	24.33	25.18	26.26	26.26	26.67	0.223471	2.87	8.72	10.98	0.97
Asta	440	tr 500	28.98	25.18	26.36	26.36	26.82	0.214059	3.03	9.92	11.34	0.97
Asta	419.9999	tr 50	17.87	24.18	25.22		25.26	0.024043	1.01	19.68	24.14	0.33
Asta	419.9999	tr 100	21.05	24.18	25.31	24.80	25.36	0.023598	1.07	22.00	24.56	0.33
Asta	419.9999	tr 200	24.33	24.18	25.40	24.85	25.46	0.023233	1.12	24.25	24.89	0.33
Asta	419.9999	tr 500	28.98	24.18	25.52	24.91	25.58	0.022950	1.18	27.23	25.31	0.33
Asta	404.614	tr 50	17.87	23.45	24.36		24.53	0.117327	1.89	10.00	16.98	0.69
Asta	404.614	tr 100	21.05	23.45	24.40	24.30	24.62	0.131360	2.08	10.78	17.27	0.74
Asta	404.614	tr 200	24.33	23.45	24.45	24.37	24.70	0.142690	2.25	11.60	17.62	0.78
Asta	404.614	tr 500	28.98	23.45	24.51	24.46	24.81	0.156632	2.47	12.76	21.02	0.82
Asta	395.4275	tr 50	17.87	21.69	22.95	22.95	23.22	0.185385	2.48	8.62	17.26	0.86
Asta	395.4275	tr 100	21.05	21.69	23.04	23.04	23.30	0.164444	2.50	10.38	21.82	0.82
Asta	395.4275	tr 200	24.33	21.69	23.12	23.12	23.38	0.152840	2.53	12.16	25.64	0.80
Asta	395.4275	tr 500	28.98	21.69	23.20	23.20	23.47	0.143323	2.60	14.50	26.96	0.79
Asta	382.0356	tr 50	17.87	17.45	17.81	18.23	21.11	0.115745	8.76	2.34	11.79	5.43
Asta	382.0356	tr 100	21.05	17.45	17.83	18.29	21.34	0.108350	9.05	2.67	12.10	5.34
Asta	382.0356	tr 200	24.33	17.45	17.86	18.37	21.52	0.100554	9.27	3.01	12.43	5.22
Asta	382.0356	tr 500	28.98	17.45	17.90	18.42	21.72	0.090950	9.50	3.50	12.83	5.06
Asta	360.9618	tr 50	17.87	16.82	17.12	17.33	18.43	0.066590	6.43	3.87	27.89	4.09
Asta	360.9618	tr 100	21.05	16.82	17.13	17.37	18.63	0.070901	6.86	4.22	27.94	4.25
Asta	360.9618	tr 200	24.33	16.82	17.14	17.41	18.82	0.074449	7.24	4.56	27.99	4.39
Asta	360.9618	tr 500	28.98	16.82	17.16	17.46	19.08	0.078076	7.70	5.02	28.05	4.54
Asta	342.7074	tr 50	20.43	15.84	16.17	16.44	17.43	0.043624	5.62	4.25	19.81	3.38
Asta	342.7074	tr 100	24.14	15.84	16.19	16.47	17.59	0.043077	5.92	4.76	20.23	3.40
Asta	342.7074	tr 200	27.96	15.84	16.22	16.56	17.75	0.043154	6.25	5.30	21.44	3.45
Asta	342.7074	tr 500	33.33	15.84	16.25	16.61	17.96	0.043541	6.67	6.00	22.64	3.52
Asta	319.9041	tr 50	20.43	15.03	15.34	15.63	16.55	0.031197	4.74	4.22	14.84	2.85
Asta	319.9041	tr 100	24.14	15.03	15.37	15.70	16.73	0.030605	5.06	4.72	15.04	2.88
Asta	319.9041	tr 200	27.96	15.03	15.40	15.77	16.90	0.029963	5.34	5.22	15.26	2.90
Asta	319.9041	tr 500	33.33	15.03	15.45	15.85	17.12	0.029194	5.70	5.88	15.49	2.91
Asta	309.4038	tr 50	20.43	14.79	15.23	15.51	16.24	0.019569	4.78	4.65	13.19	2.40
Asta	309.4038	tr 100	24.14	14.79	15.26	15.58	16.42	0.019769	5.10	5.15	13.34	2.45
Asta	309.4038	tr 200	27.96	14.79	15.30	15.65	16.59	0.019827	5.39	5.64	13.48	2.49
Asta	309.4038	tr 500	33.33	14.79	15.35	15.75	16.82	0.019828	5.76	6.31	13.69	2.53
Asta	293.3263	tr 50	20.43	14.56	14.89	15.14	15.87	0.027828	4.64	4.70	17.61	2.71
Asta	293.3263	tr 100	24.14	14.56	14.92	15.20	16.04	0.028608	4.98	5.16	17.74	2.79
Asta	293.3263	tr 200	27.96	14.56	14.94	15.26	16.21	0.028902	5.27	5.64	17.87	2.84
Asta	293.3263	tr 500	33.33	14.56	14.98	15.33	16.44	0.029295	5.65	6.27	18.04	2.91
Asta	262.0978	tr 50	20.43	14.32	15.18	14.95	15.24	0.000518	1.23	20.40	42.92	0.44
Asta	262.0978	tr 100	24.14	14.32	15.19	15.02	15.28	0.000670	1.41	20.98	43.17	0.50
Asta	262.0978	tr 200	27.96	14.32	15.29	15.07	15.36	0.000548	1.37	25.09	44.61	0.46
Asta	262.0978	tr 500	33.33	14.32	15.39	15.13	15.47	0.000469	1.37	30.05	46.33	0.43

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	251.6194	tr 50	20.43	14.30	14.87	14.87	15.20	0.004247	2.61	8.24	18.82	1.16
Asta	251.6194	tr 100	24.14	14.30	15.14	14.87	15.26	0.001032	1.70	17.35	38.09	0.61
Asta	251.6194	tr 200	27.96	14.30	15.25	15.09	15.35	0.000757	1.59	21.60	39.15	0.54
Asta	251.6194	tr 500	33.33	14.30	15.36	15.15	15.46	0.000629	1.57	26.14	40.67	0.50
Asta	247.8209	tr 50	20.43	14.03	14.81	14.90	15.18	0.004941	3.28	7.86	17.73	1.29
Asta	247.8209	tr 100	24.14	14.03	14.96	14.96	15.24	0.002756	2.82	10.70	19.11	1.00
Asta	247.8209	tr 200	27.96	14.03	15.01	15.01	15.33	0.002937	3.02	11.57	19.52	1.04
Asta	247.8209	tr 500	33.33	14.03	15.13	15.13	15.44	0.002536	3.06	14.12	22.22	0.99
Asta	240.6545	tr 50	20.43	12.59	13.23	13.70	14.97	0.027063	6.38	3.75	10.74	2.89
Asta	240.6545	tr 100	24.14	12.59	13.29	13.76	15.05	0.023892	6.45	4.39	11.08	2.77
Asta	240.6545	tr 200	27.96	12.59	13.35	13.82	15.13	0.021587	6.54	5.02	11.40	2.67
Asta	240.6545	tr 500	33.33	12.59	13.42	13.89	15.24	0.018984	6.64	5.91	12.40	2.56
Asta	215.3117	tr 50	20.43	10.96	11.31	11.64	13.73	0.096001	7.82	3.18	18.49	4.92
Asta	215.3117	tr 100	24.14	10.96	11.33	11.69	13.90	0.091641	8.10	3.63	19.01	4.88
Asta	215.3117	tr 200	27.96	10.96	11.35	11.75	14.06	0.087514	8.35	4.07	19.39	4.83
Asta	215.3117	tr 500	33.33	10.96	11.38	11.81	14.25	0.082020	8.62	4.68	19.91	4.76
Asta	197.4931	tr 50	20.43	10.38	10.81	11.15	12.51	0.037963	6.12	3.78	14.93	3.27
Asta	197.4931	tr 100	24.14	10.38	10.84	11.21	12.70	0.037692	6.45	4.26	15.38	3.31
Asta	197.4931	tr 200	27.96	10.38	10.87	11.27	12.89	0.037395	6.75	4.72	15.69	3.33
Asta	197.4931	tr 500	33.33	10.38	10.91	11.35	13.13	0.036765	7.11	5.36	15.95	3.36
Asta	179.9999	tr 50	20.43	9.52	9.99	10.36	11.84	0.035823	6.53	3.71	13.86	3.25
Asta	179.9999	tr 100	24.14	9.52	10.03	10.45	12.04	0.035828	6.88	4.17	14.06	3.29
Asta	179.9999	tr 200	27.96	9.52	10.06	10.52	12.24	0.035675	7.18	4.62	14.26	3.32
Asta	179.9999	tr 500	33.33	9.52	10.10	10.64	12.48	0.035203	7.55	5.23	14.53	3.34
Asta	160	tr 50	20.43	8.29	8.66	9.02	10.87	0.065581	6.96	3.28	14.98	4.15
Asta	160	tr 100	24.14	8.29	8.69	9.08	11.08	0.063265	7.28	3.71	15.32	4.14
Asta	160	tr 200	27.96	8.29	8.72	9.14	11.29	0.061214	7.58	4.15	15.79	4.13
Asta	160	tr 500	33.33	8.29	8.75	9.23	11.56	0.058945	7.96	4.74	16.47	4.12
Asta	146.7095	tr 50	20.43	5.84	6.14	6.59	9.60	0.118229	8.42	2.55	12.10	5.43
Asta	146.7095	tr 100	24.14	5.84	6.17	6.67	9.87	0.109229	8.74	2.91	12.40	5.32
Asta	146.7095	tr 200	27.96	5.84	6.20	6.74	10.13	0.101919	9.02	3.28	12.63	5.22
Asta	146.7095	tr 500	33.33	5.84	7.91	6.83	7.97	0.000142	1.19	35.10	29.54	0.27
Asta	118.8673	tr 50	20.43	6.21	6.71	6.92	7.83	0.019062	5.02	4.71	15.33	2.40
Asta	118.8673	tr 100	24.14	6.21	6.74	6.92	8.04	0.020686	5.45	5.16	15.93	2.53
Asta	118.8673	tr 200	27.96	6.21	6.76	6.92	8.26	0.022163	5.86	5.61	16.52	2.64
Asta	118.8673	tr 500	33.33	6.21	6.92	6.92	7.86	0.010303	4.79	8.44	19.47	1.89
Asta	97.27415	tr 50	20.43	5.22	5.57	5.87	7.16	0.048134	5.82	3.86	18.55	3.53
Asta	97.27415	tr 100	24.14	5.22	5.60	5.92	7.35	0.047679	6.15	4.35	19.22	3.57
Asta	97.27415	tr 200	27.96	5.22	5.62	5.96	7.54	0.047567	6.46	4.83	19.83	3.61
Asta	97.27415	tr 500	33.33	5.22	5.68	6.03	7.41	0.035313	6.24	6.22	23.95	3.20
Asta	77.06921	tr 50	20.43	4.78	5.15	5.35	6.08	0.037685	5.16	5.05	28.20	3.12
Asta	77.06921	tr 100	24.14	4.78	5.16	5.40	6.24	0.039922	5.51	5.52	28.62	3.24
Asta	77.06921	tr 200	27.96	4.78	5.18	5.44	6.40	0.041976	5.85	5.98	29.11	3.36
Asta	77.06921	tr 500	33.33	4.78	5.21	5.50	6.51	0.038931	6.00	6.86	29.68	3.28
Asta	59.99981	tr 50	20.43	4.35	4.63	4.82	5.40	0.035458	3.95	5.44	32.97	2.86
Asta	59.99981	tr 100	24.14	4.35	4.65	4.85	5.52	0.036141	4.23	6.02	33.38	2.93
Asta	59.99981	tr 200	27.96	4.35	4.67	4.89	5.65	0.037156	4.50	6.57	33.89	3.01
Asta	59.99981	tr 500	33.33	4.35	4.69	4.94	5.80	0.036945	4.80	7.38	34.71	3.05
Asta	42.37476	tr 50	20.43	4.07	4.30	4.43	4.74	0.028653	3.68	8.29	49.00	2.59
Asta	42.37476	tr 100	24.14	4.07	4.32	4.46	4.83	0.030609	3.99	9.04	49.97	2.71
Asta	42.37476	tr 200	27.96	4.07	4.33	4.49	4.92	0.032376	4.29	9.82	50.74	2.82
Asta	42.37476	tr 500	33.33	4.07	4.35	4.54	5.04	0.034662	4.67	10.77	51.17	2.96
Asta	19.50446	tr 50	20.43	1.52	1.73	1.93	3.11	0.311842	5.28	4.13	37.19	4.34
Asta	19.50446	tr 100	24.14	1.52	1.75	1.97	3.16	0.279156	5.40	4.84	37.91	4.18
Asta	19.50446	tr 200	27.96	1.52	1.77	2.00	3.23	0.254064	5.53	5.58	41.62	4.06
Asta	19.50446	tr 500	33.33	1.52	1.79	2.03	3.31	0.232004	5.71	6.59	45.64	3.96
Asta	1.248311	tr 50	20.43	0.58	1.80	0.83	1.80	0.000061	0.29	77.46	78.91	0.09
Asta	1.248311	tr 100	24.14	0.58	1.80	0.87	1.81	0.000085	0.35	77.46	78.91	0.10
Asta	1.248311	tr 200	27.96	0.58	1.80	0.91	1.81	0.000114	0.40	77.46	78.91	0.12
Asta	1.248311	tr 500	33.33	0.58	1.80	0.96	1.81	0.000162	0.48	77.46	78.91	0.14

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Modello 21 : Porto Palmas

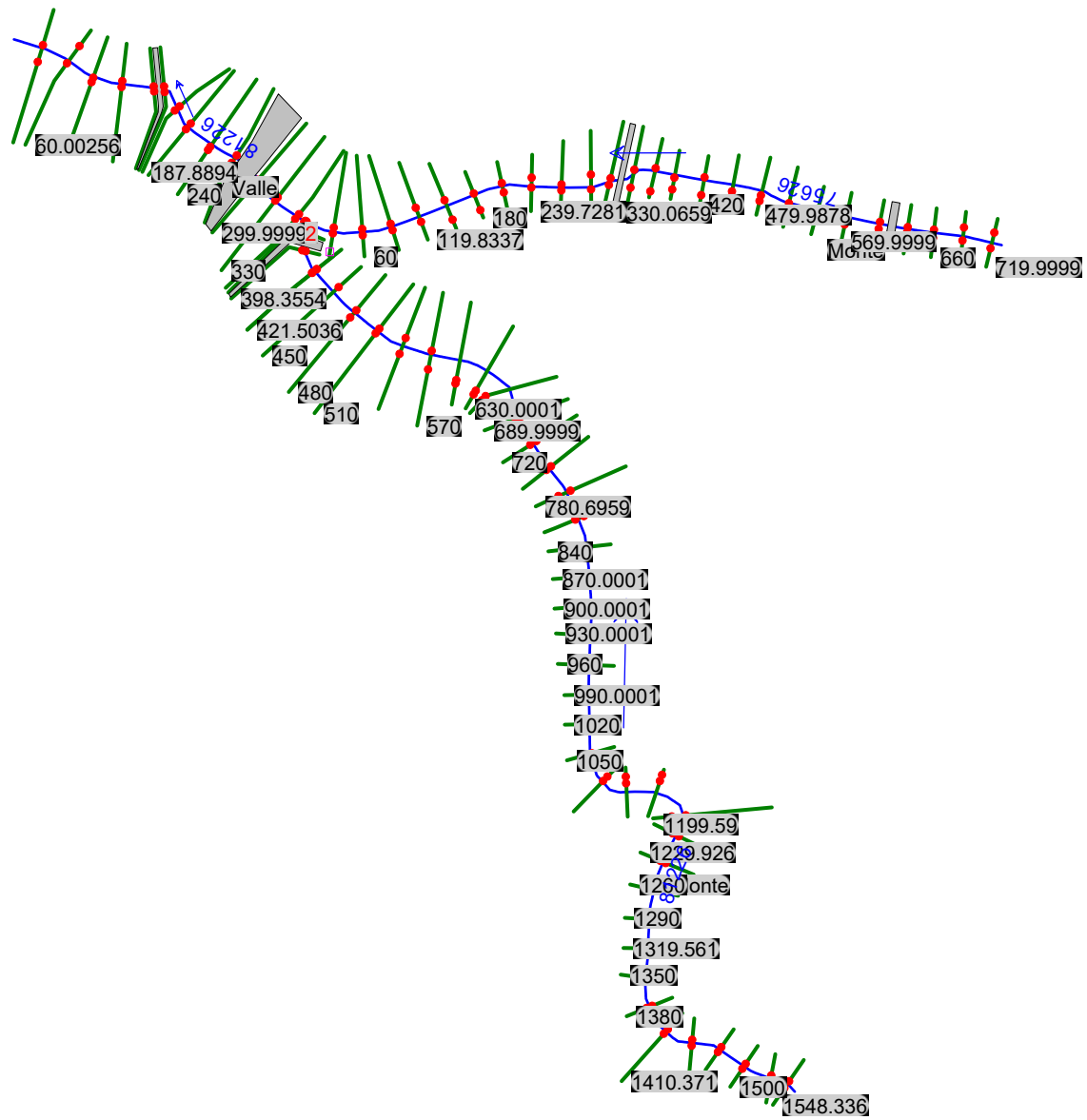
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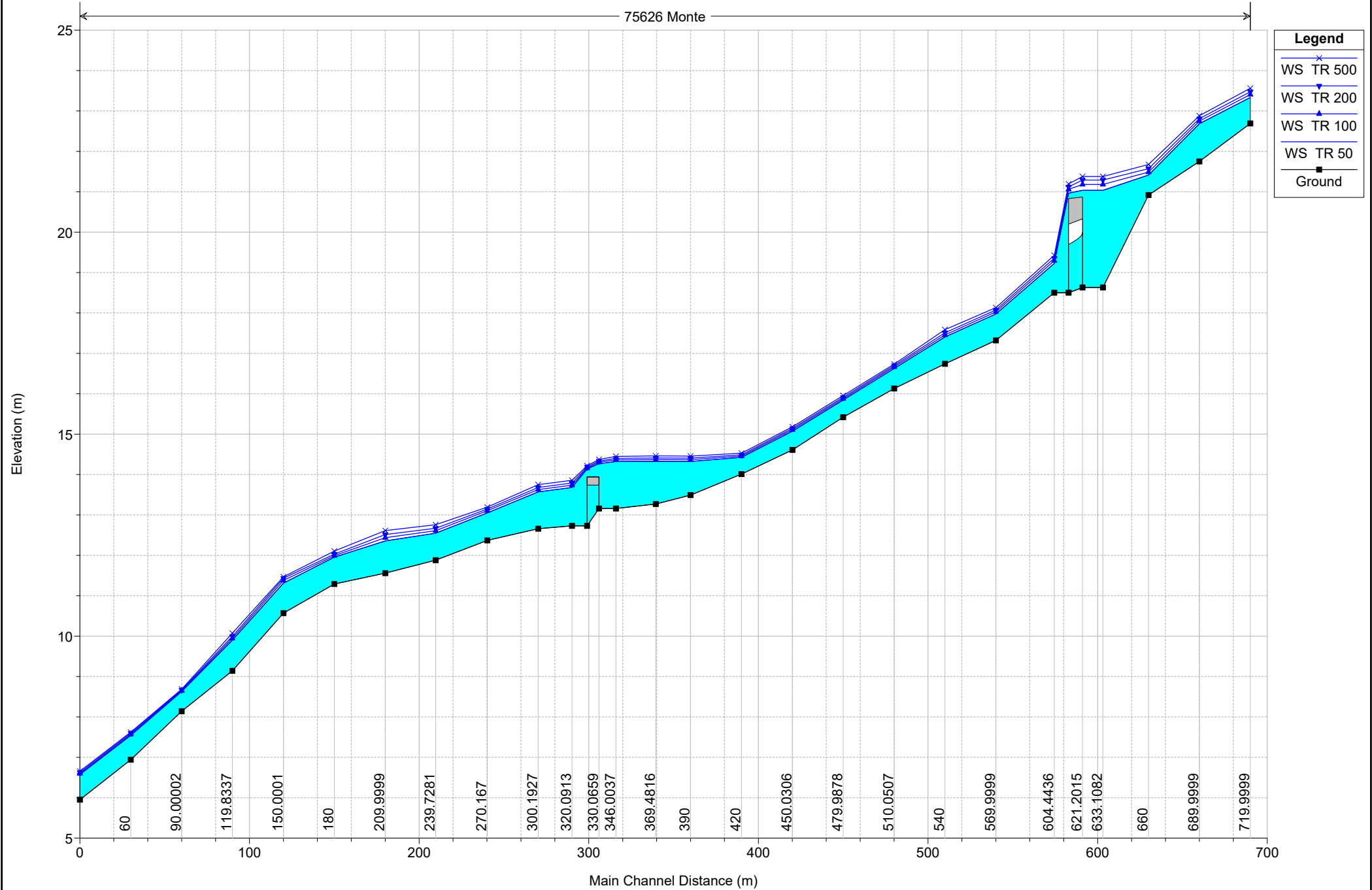
Fiume 75626
Fiume 81226

- 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 tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per tempi di ritorno 50, 100, 200 e 500 anni;
- Calcolo della portata critica;
- Profilo longitudinale del livello idrico per il tempo di ritorno critico TC;
- Verifica dei franchi idraulici e della portata critica;

River	Reach	RS	PORTATE mc/s			
			TR 50	TR 100	TR 200	TR 500
75626	Monte	719.9999	10.338	12.329	14.358	17.116
75626	Monte	300.1927	18.045	21.596	25.212	30.111
81226	Monte	1548.336	42.953	52.001	61.226	73.644
81226	Valle	357.5708	58.12	70.101	82.279	98.601

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
75626	Monte	all	Critical Depth	Junction=2
81226	Monte	all	Critical Depth	Junction=2
81226	Valle	all	Junction=2	Known WS

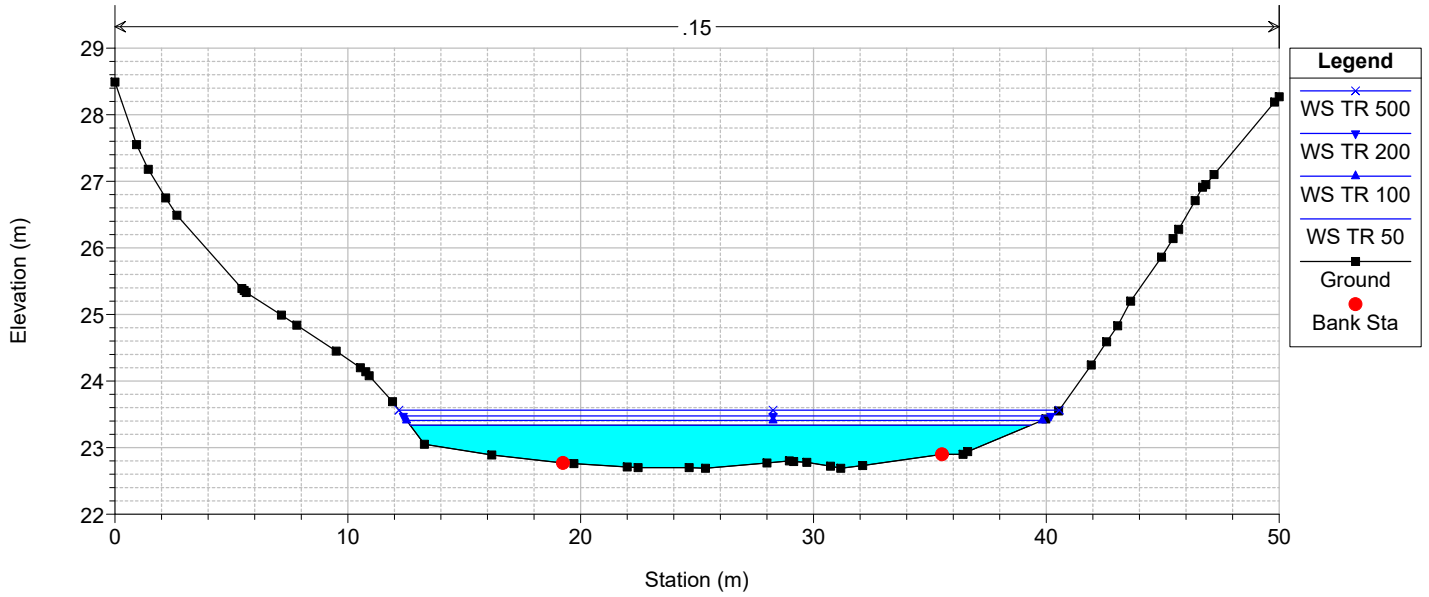




ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

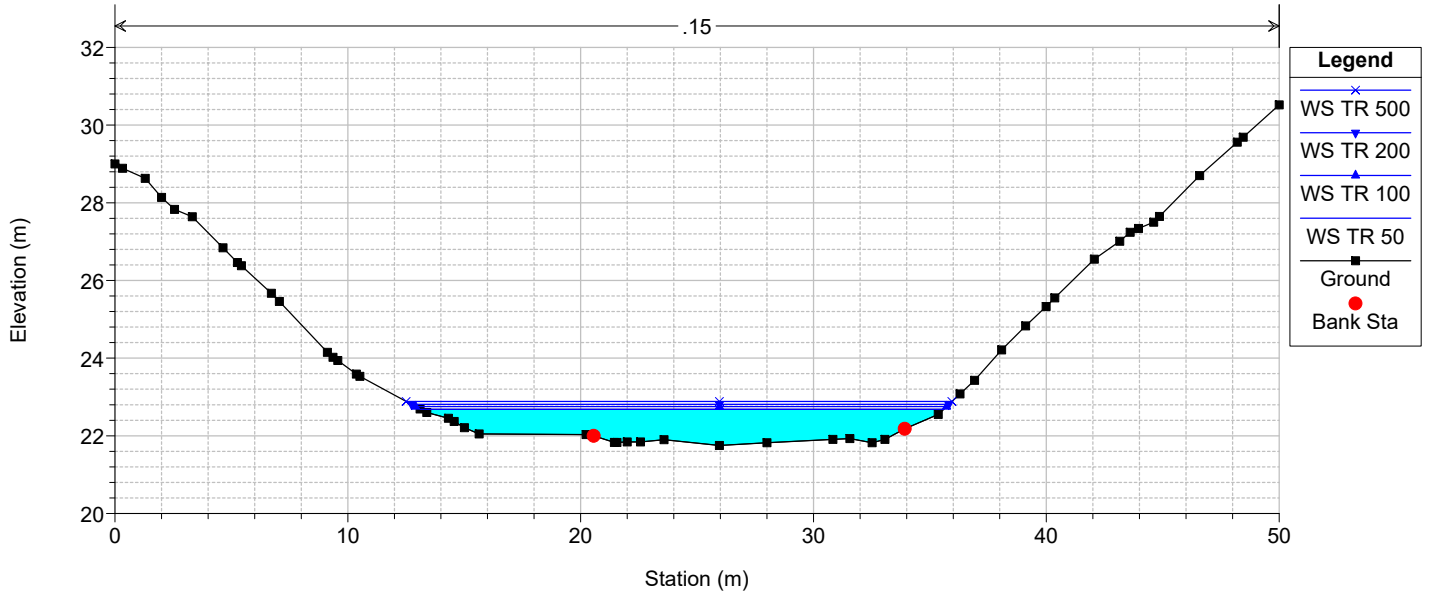
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ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

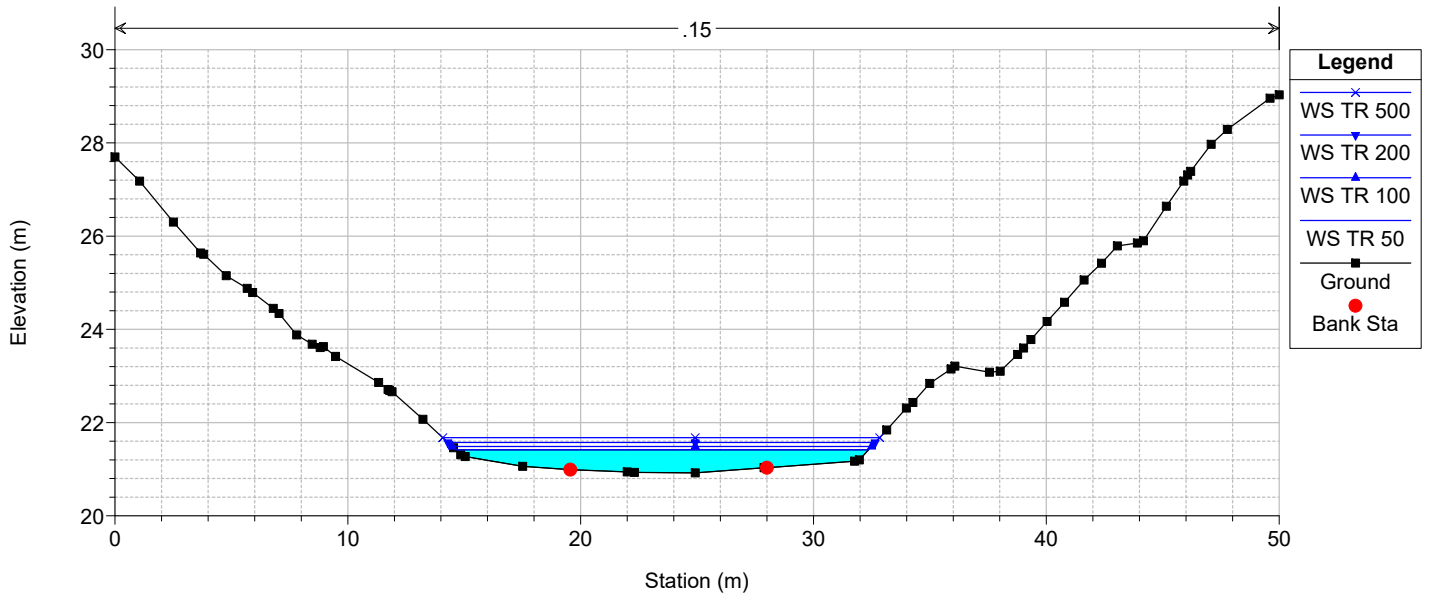
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ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

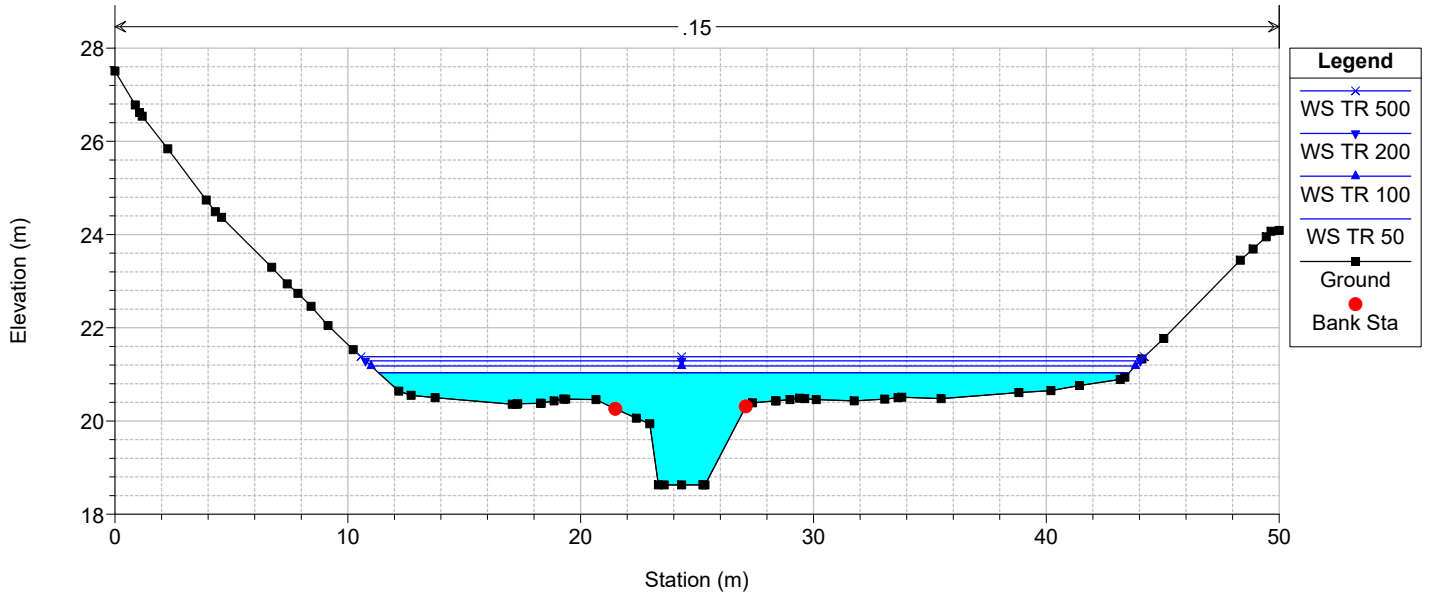
River = 75626 Reach = Monte RS = 660 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

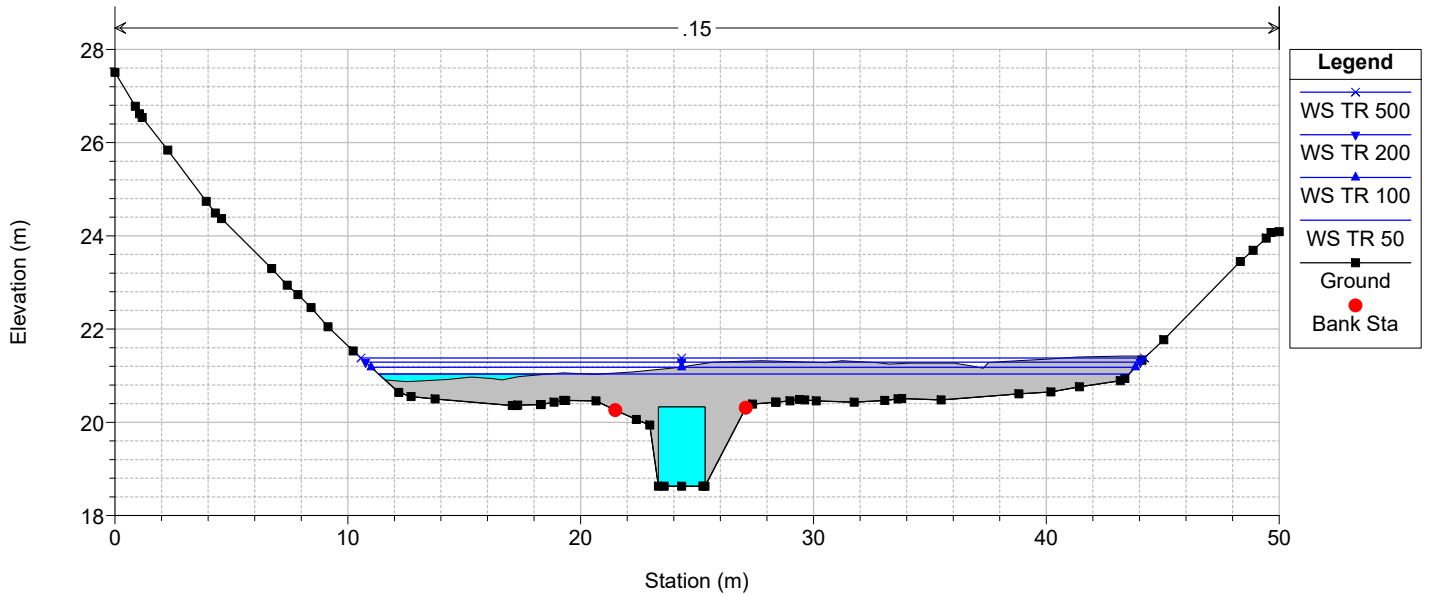
River = 75626 Reach = Monte RS = 633.1082 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

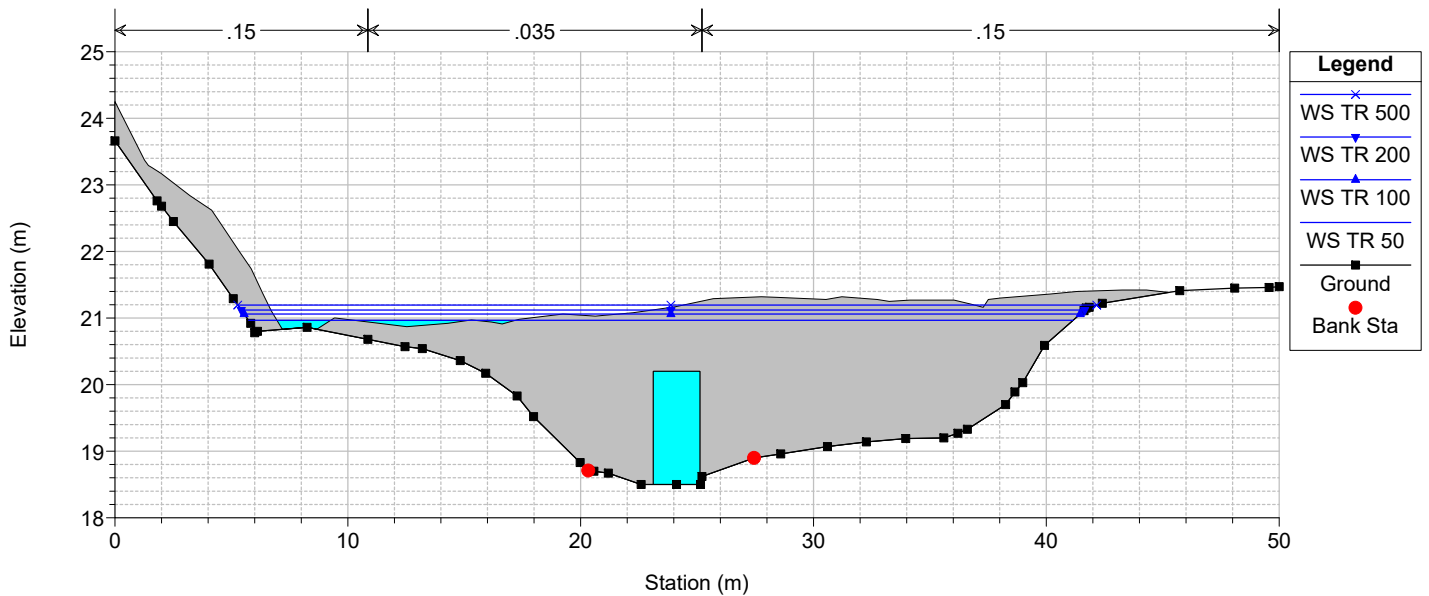
River = 75626 Reach = Monte RS = 621.2015 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

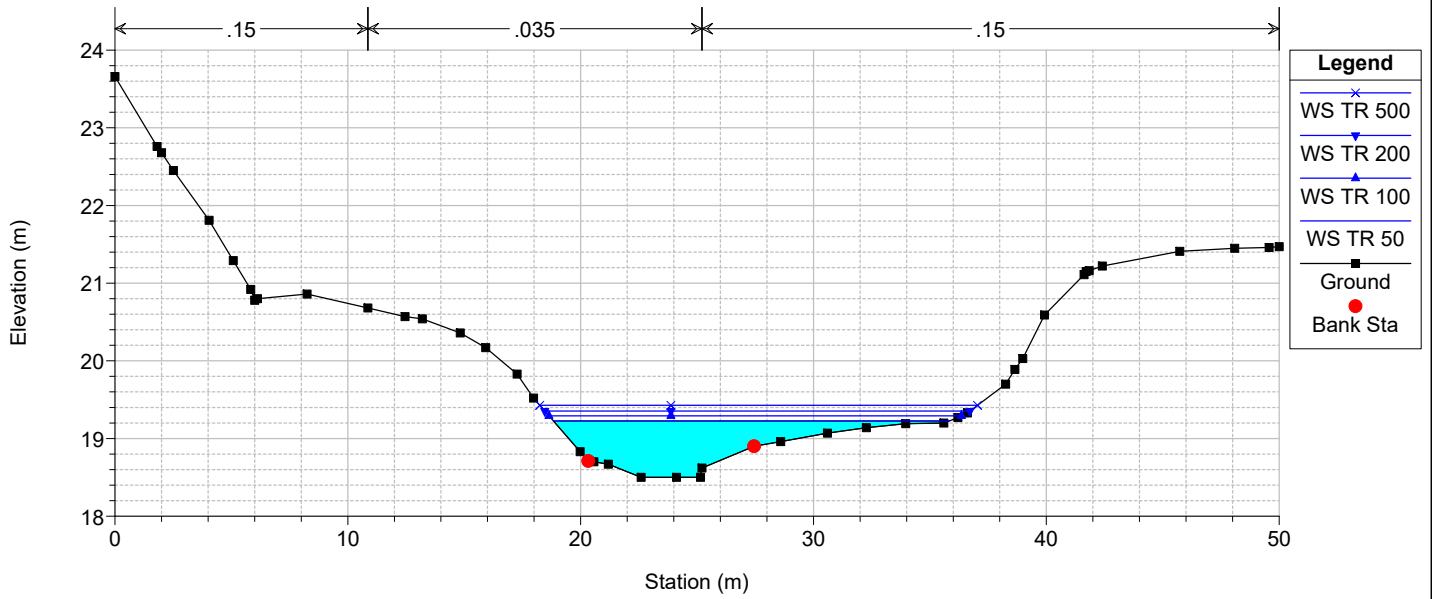
River = 75626 Reach = Monte RS = 621.2015 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

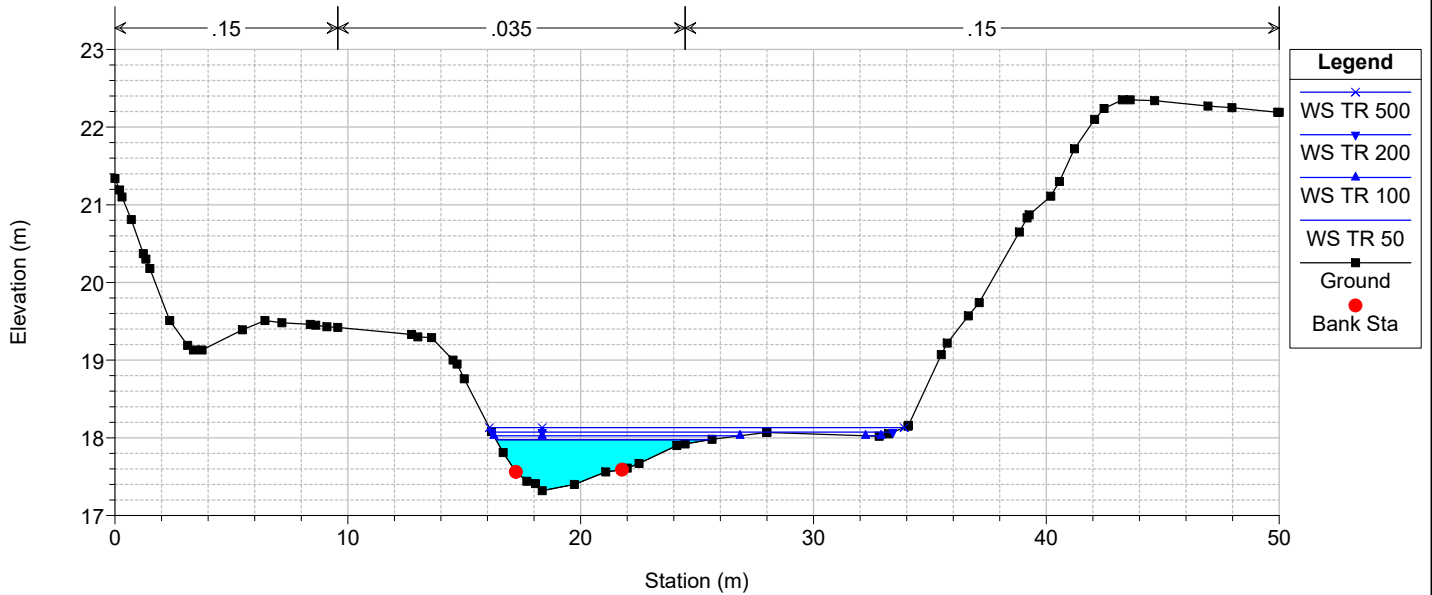
River = 75626 Reach = Monte RS = 604.4436 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

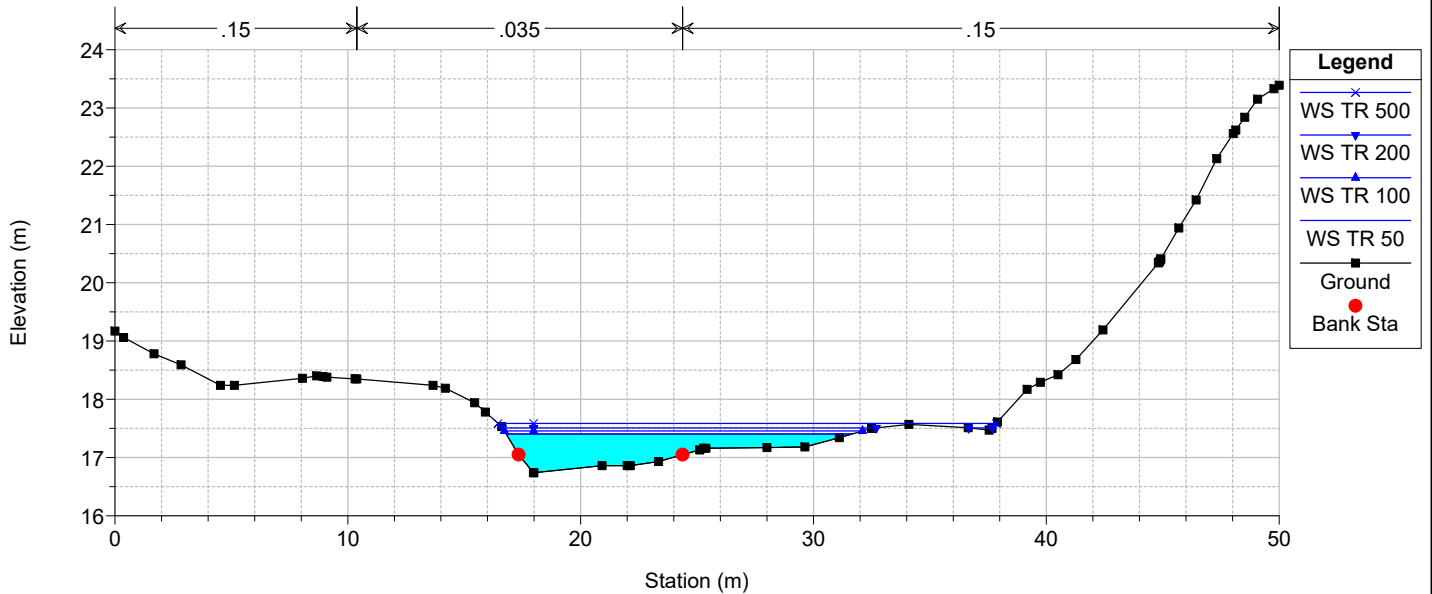
River = 75626 Reach = Monte RS = 569.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

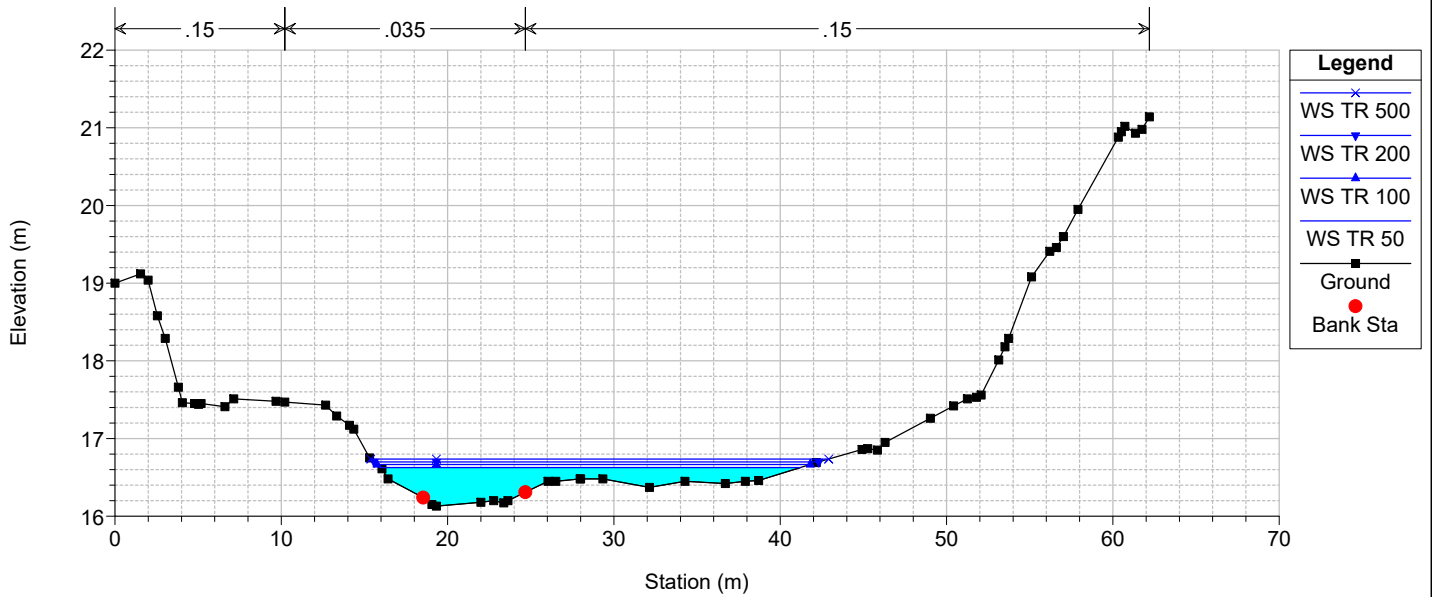
River = 75626 Reach = Monte RS = 540 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

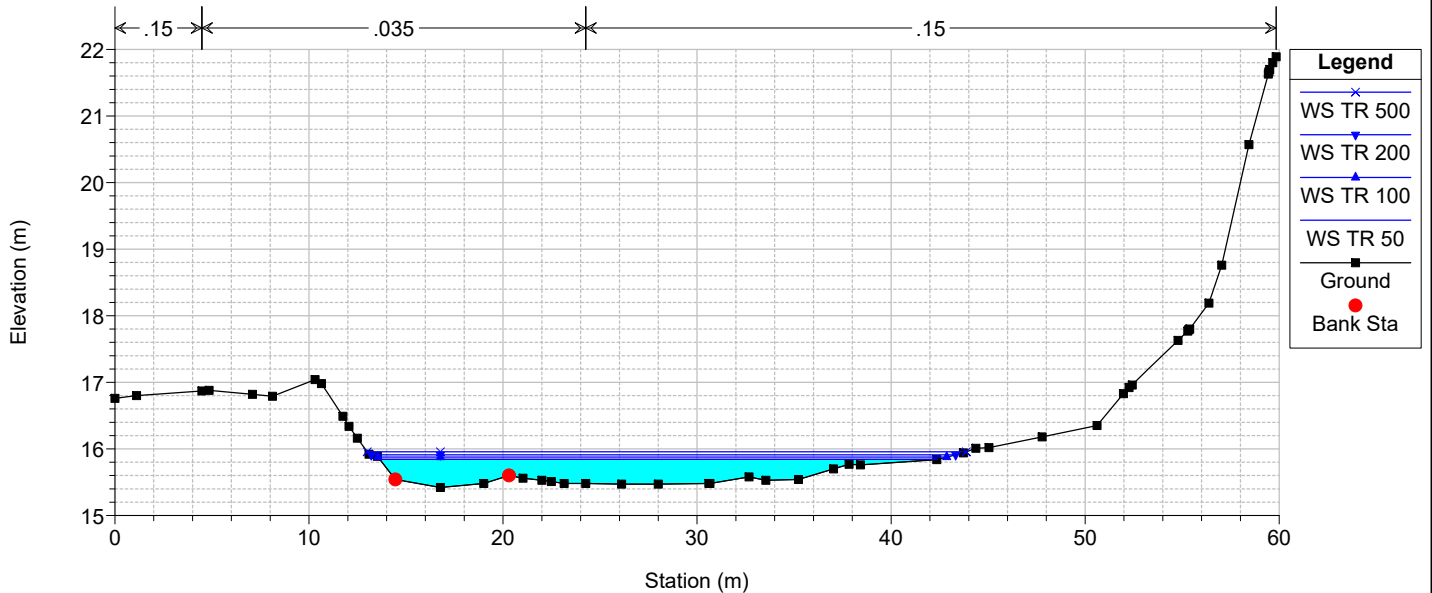
River = 75626 Reach = Monte RS = 510.0507 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

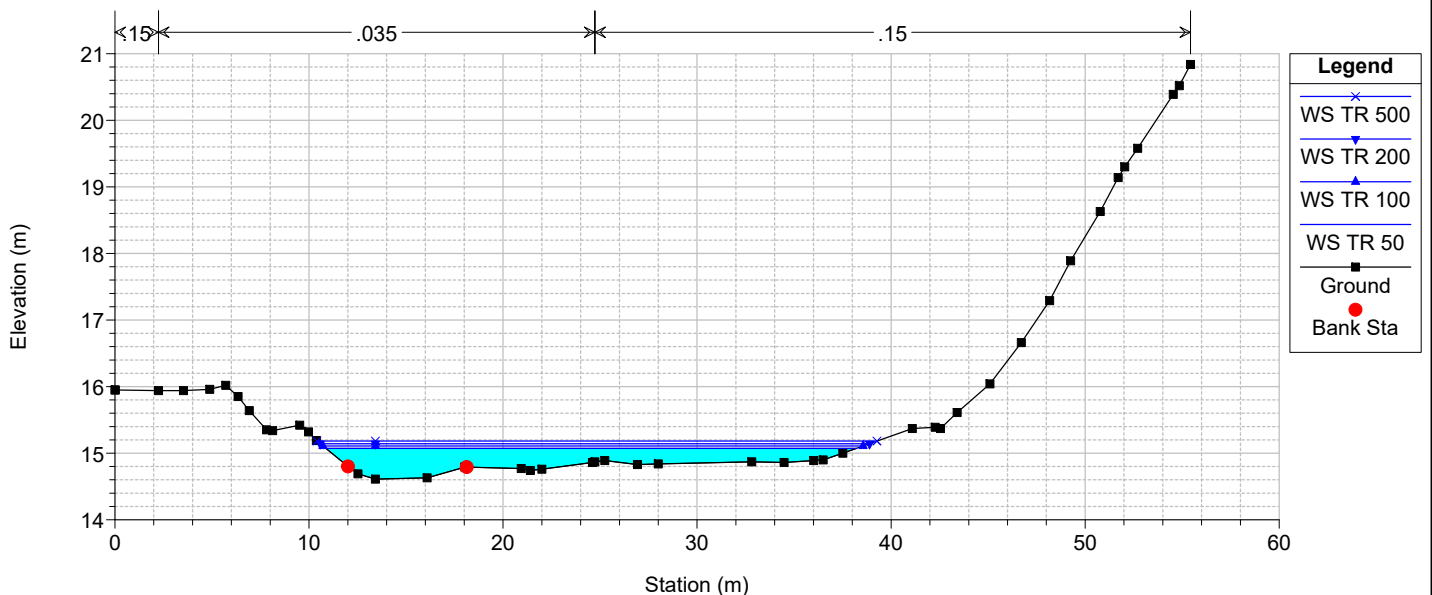
River = 75626 Reach = Monte RS = 479.9878 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

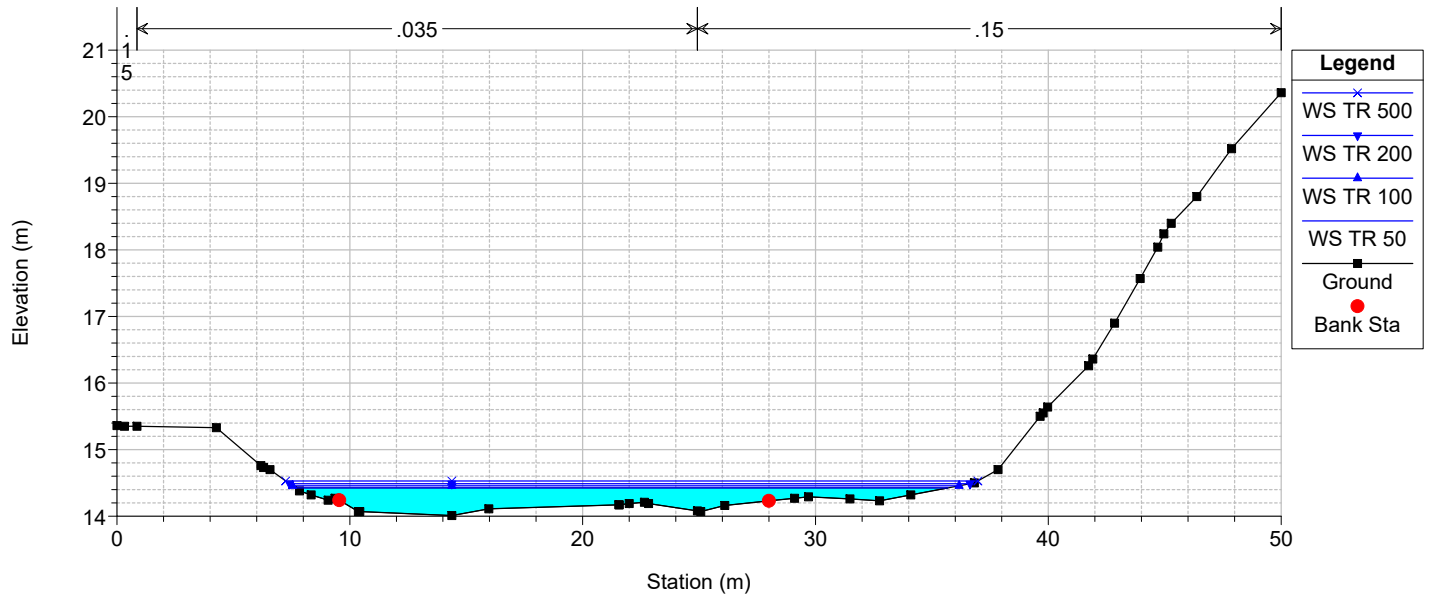
River = 75626 Reach = Monte RS = 450.0306 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

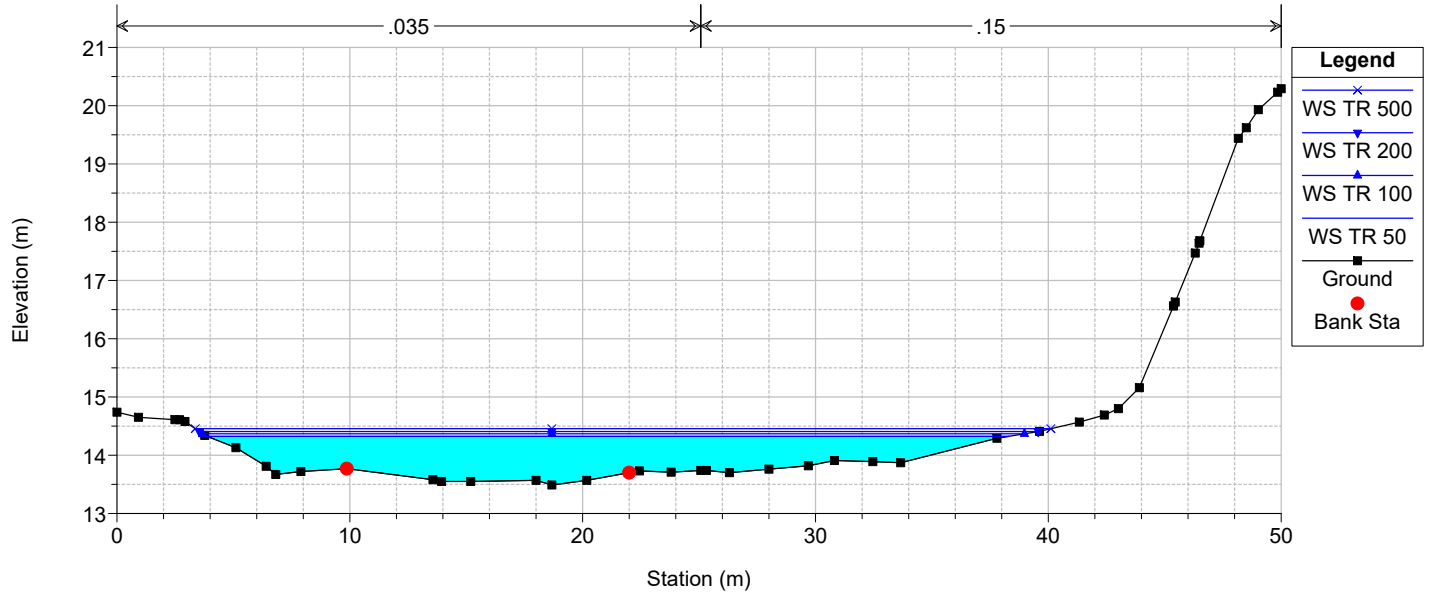
River = 75626 Reach = Monte RS = 420 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

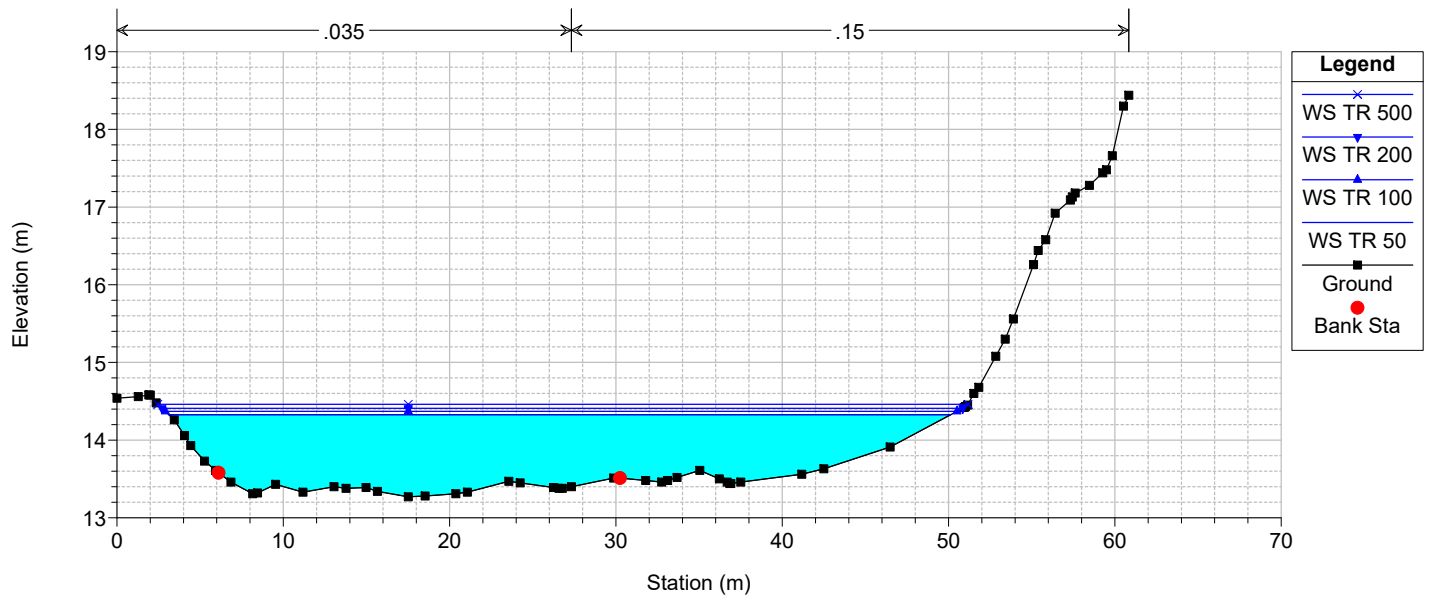
River = 75626 Reach = Monte RS = 390 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

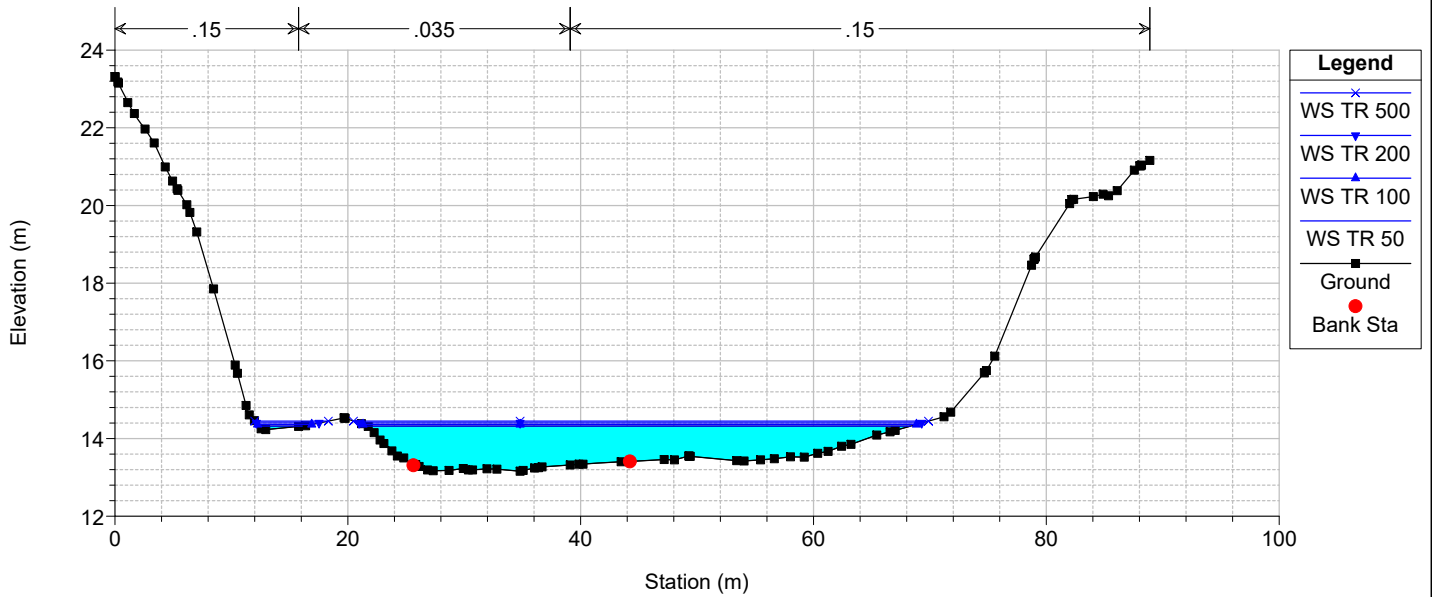
River = 75626 Reach = Monte RS = 369.4816 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

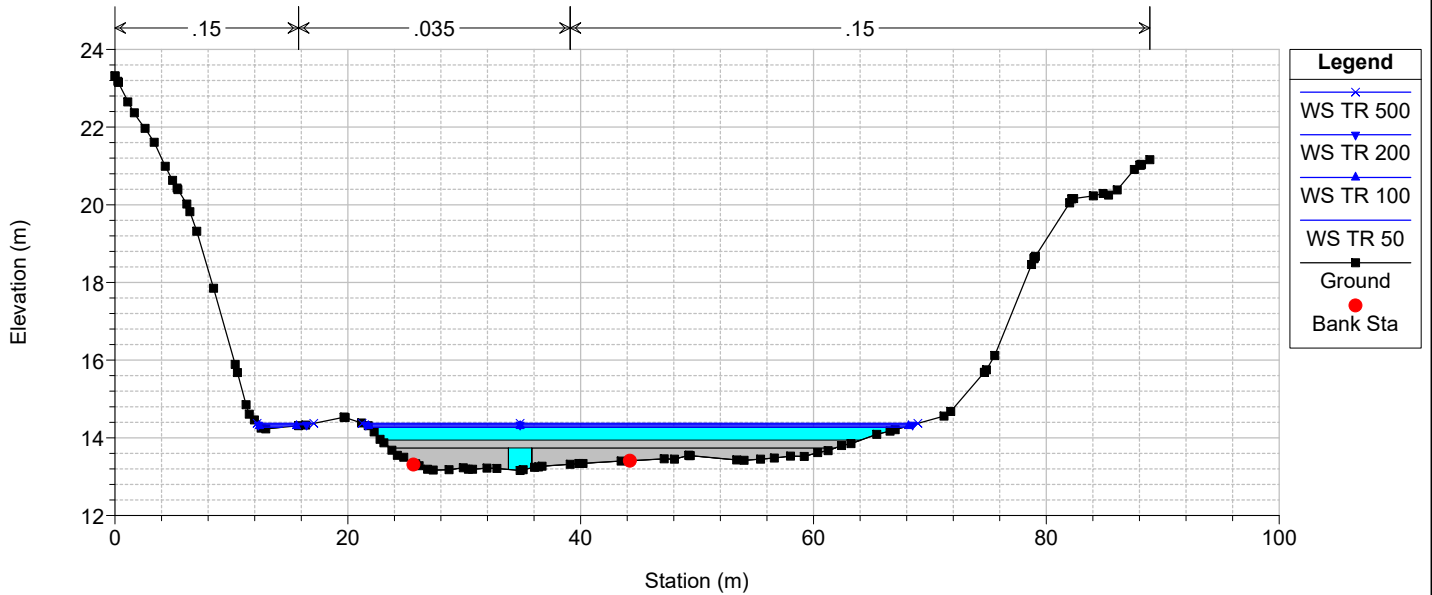
River = 75626 Reach = Monte RS = 346.0037 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

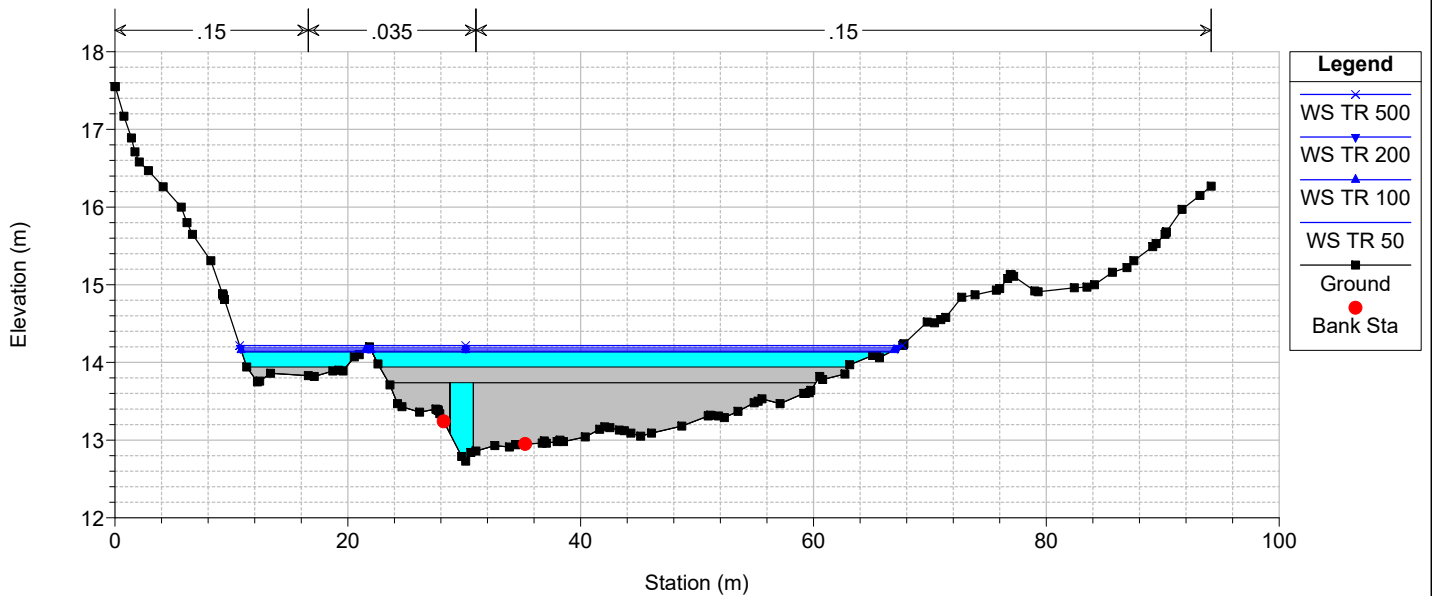
River = 75626 Reach = Monte RS = 330.0659 BR COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

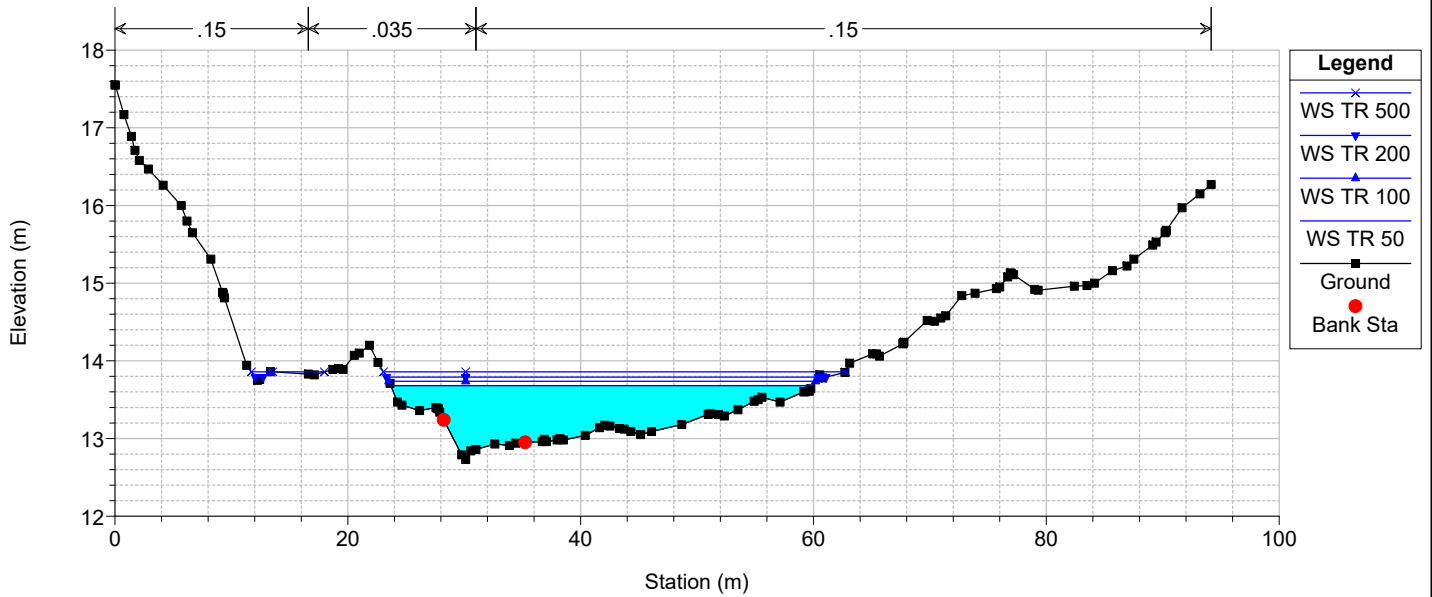
River = 75626 Reach = Monte RS = 330.0659 BR COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

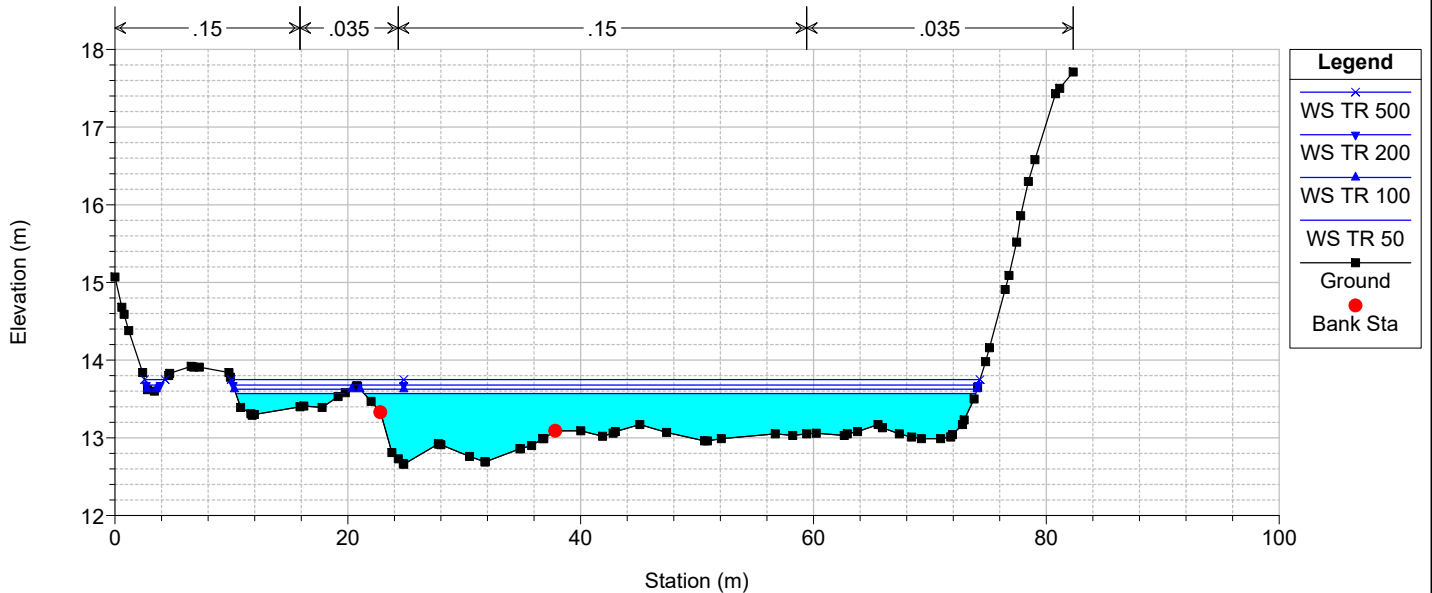
River = 75626 Reach = Monte RS = 320.0913 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

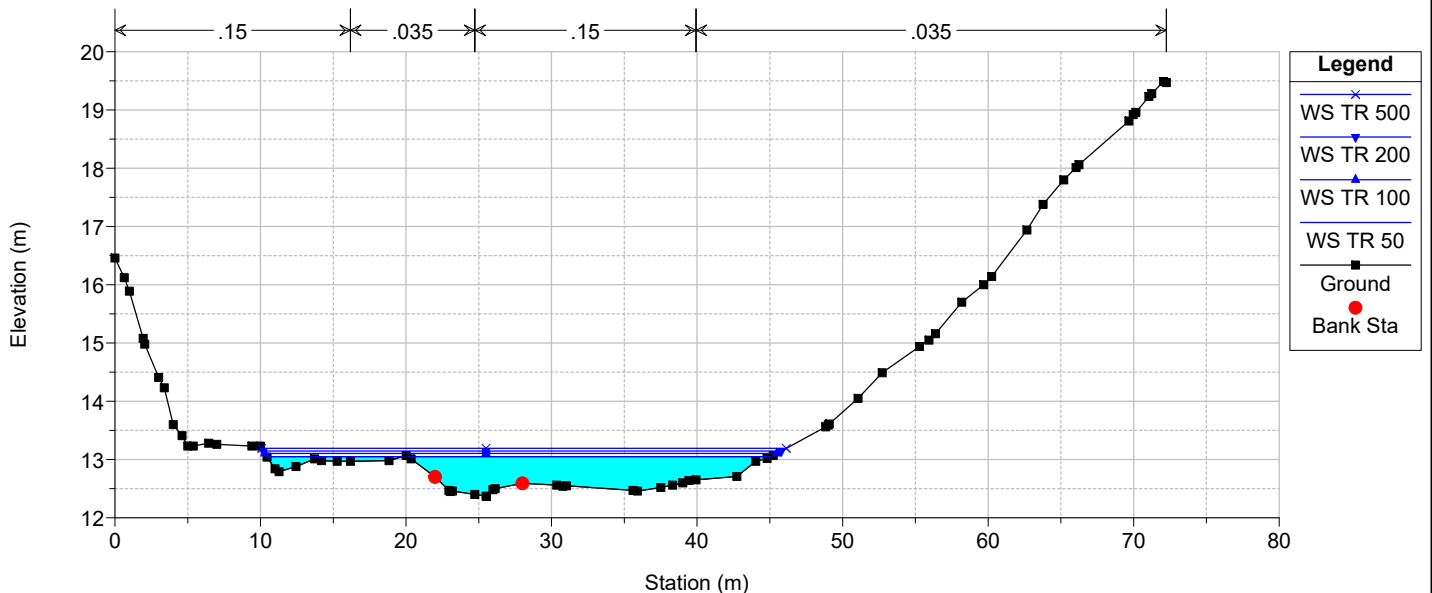
River = 75626 Reach = Monte RS = 300.1927 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

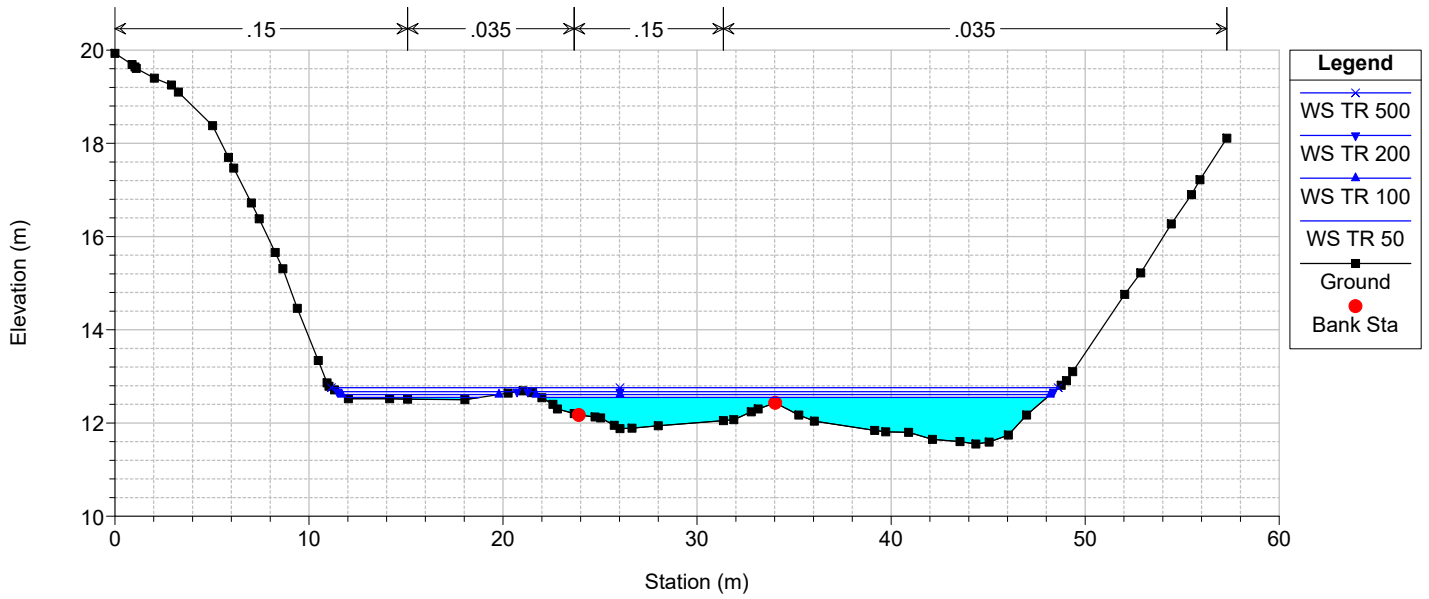
River = 75626 Reach = Monte RS = 270.167 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

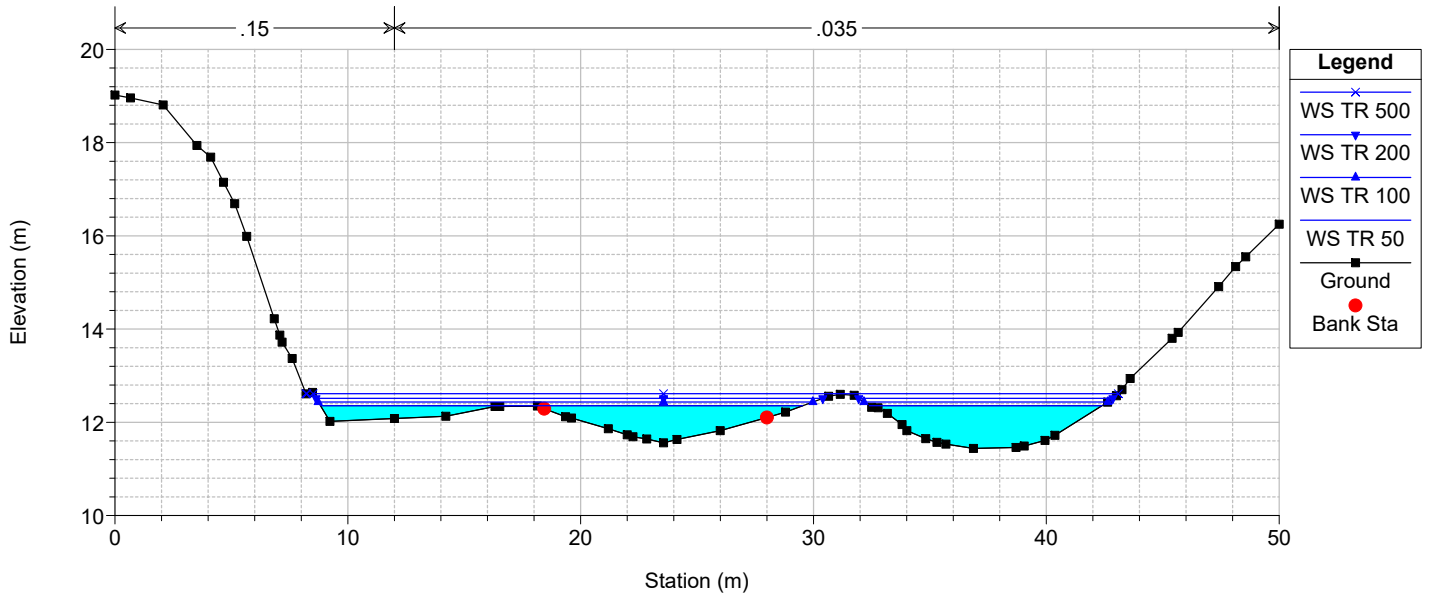
River = 75626 Reach = Monte RS = 239.7281 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

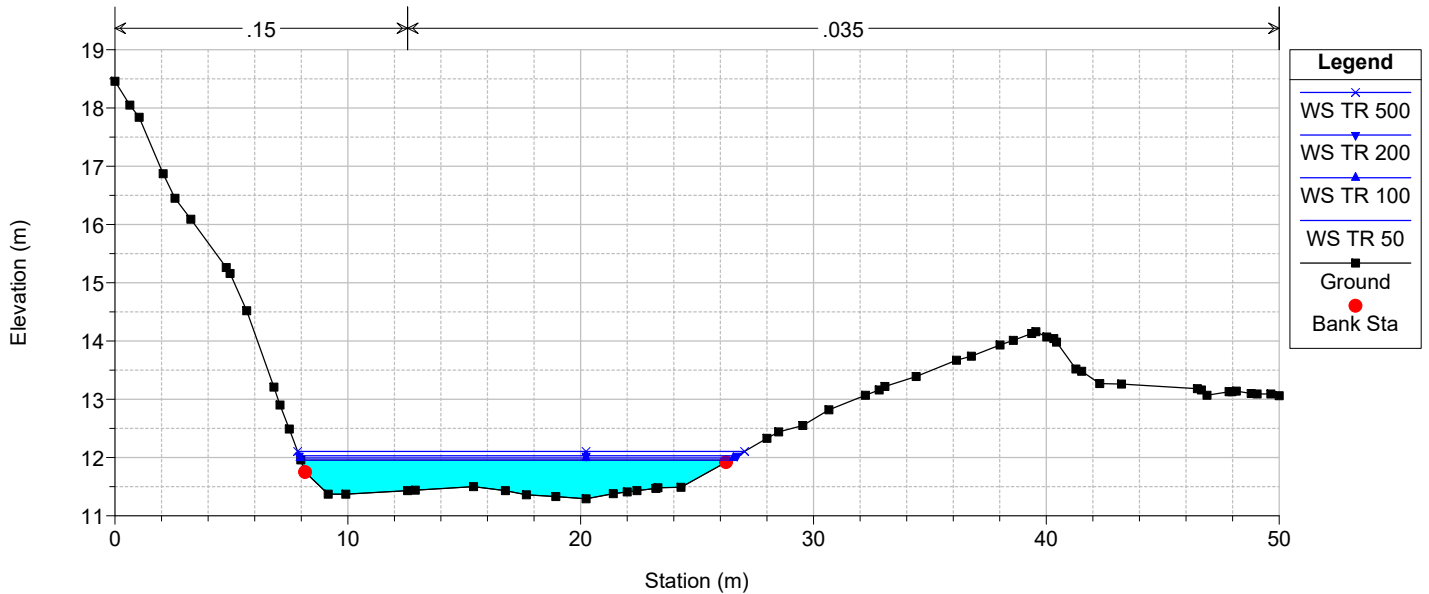
River = 75626 Reach = Monte RS = 209.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

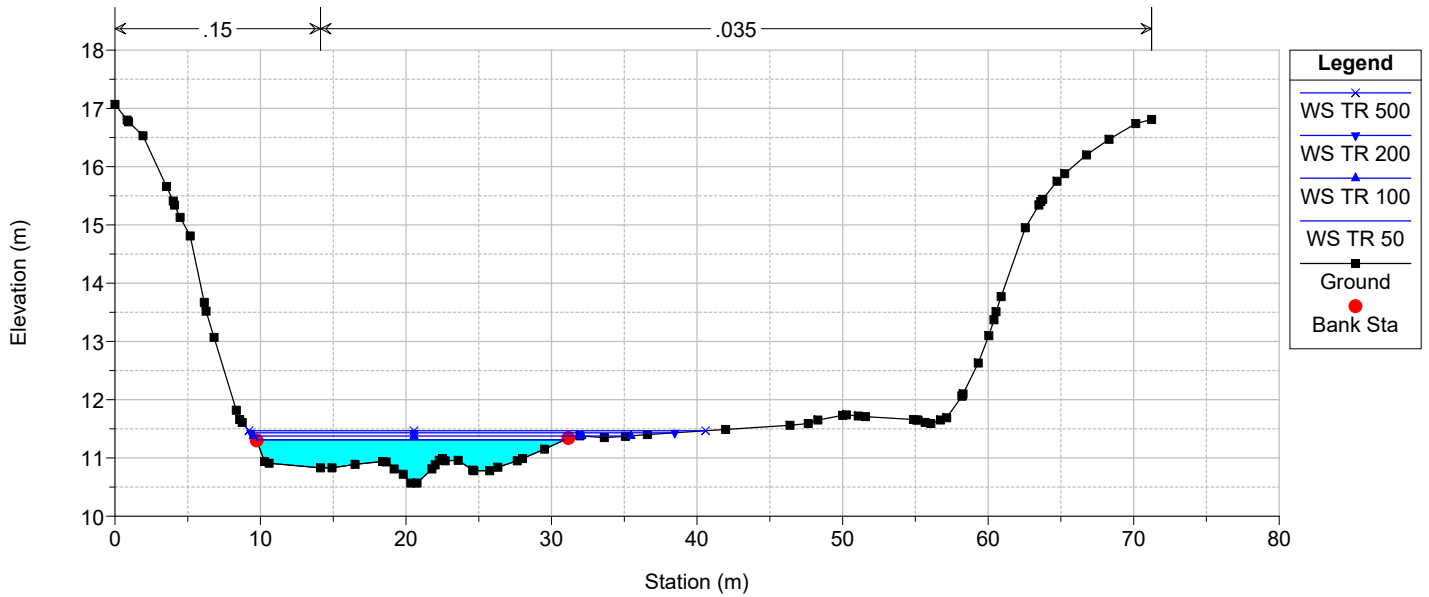
River = 75626 Reach = Monte RS = 180 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

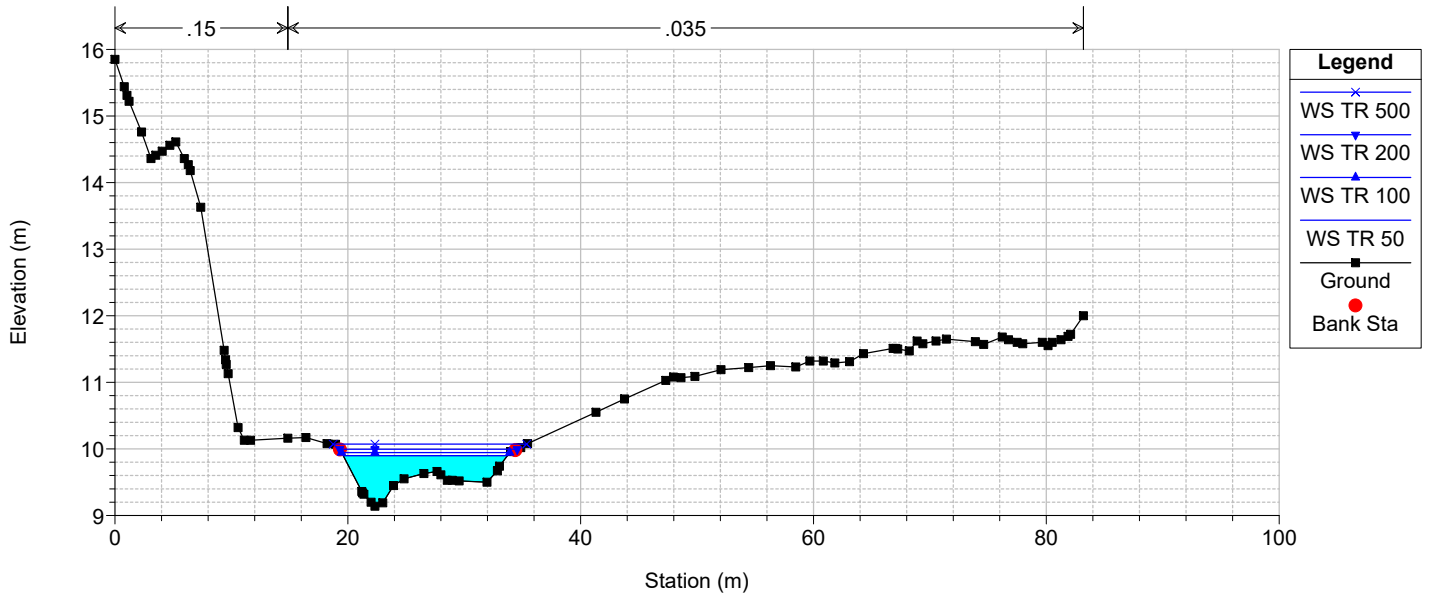
River = 75626 Reach = Monte RS = 150.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

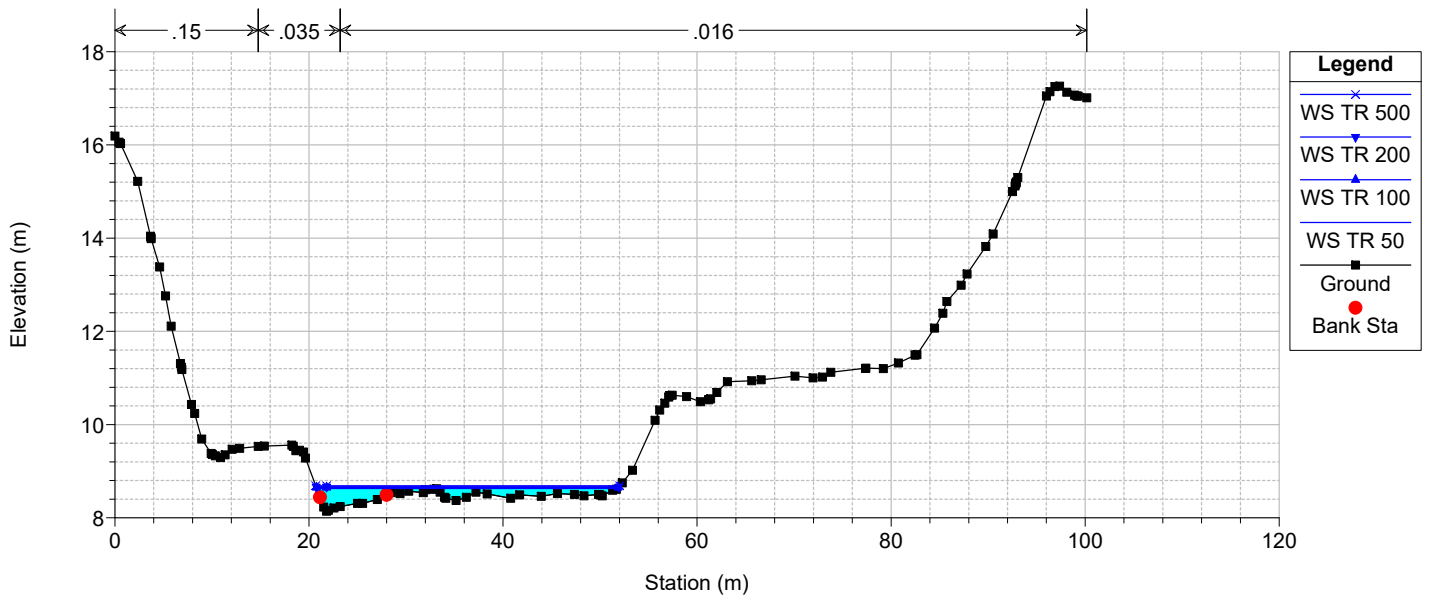
River = 75626 Reach = Monte RS = 119.8337 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

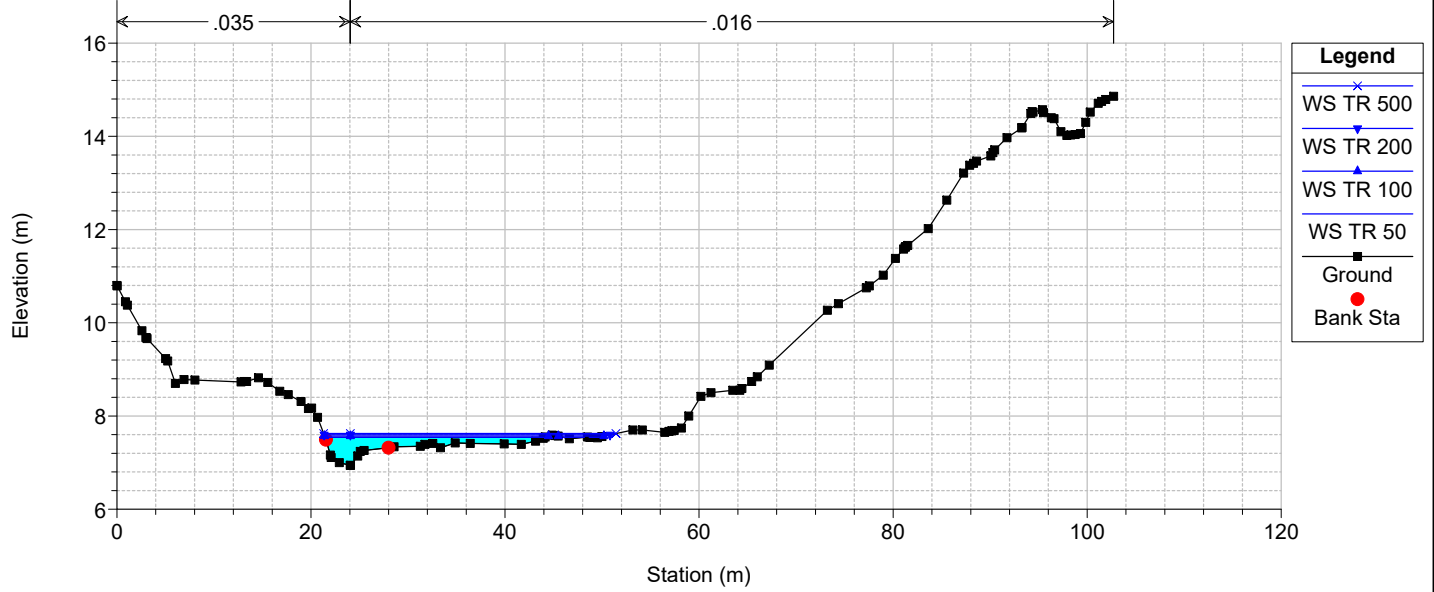
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ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

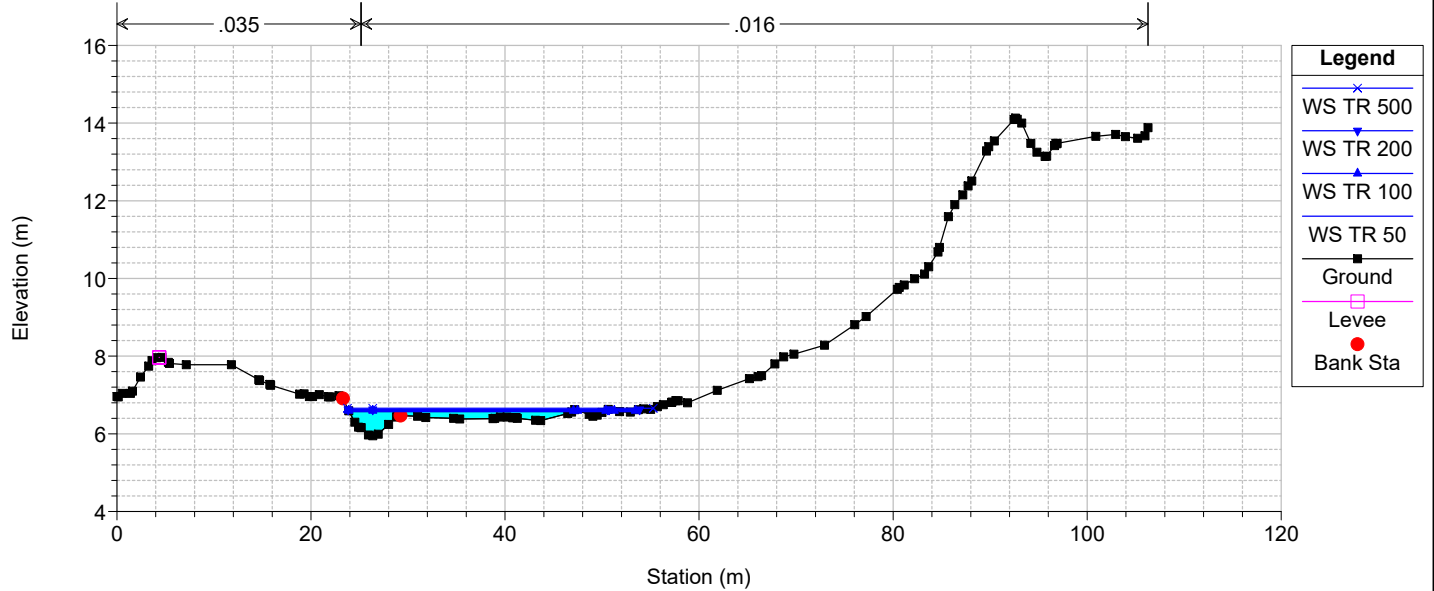
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ppalmas06102016 Plan: 09022021 10/02/2021

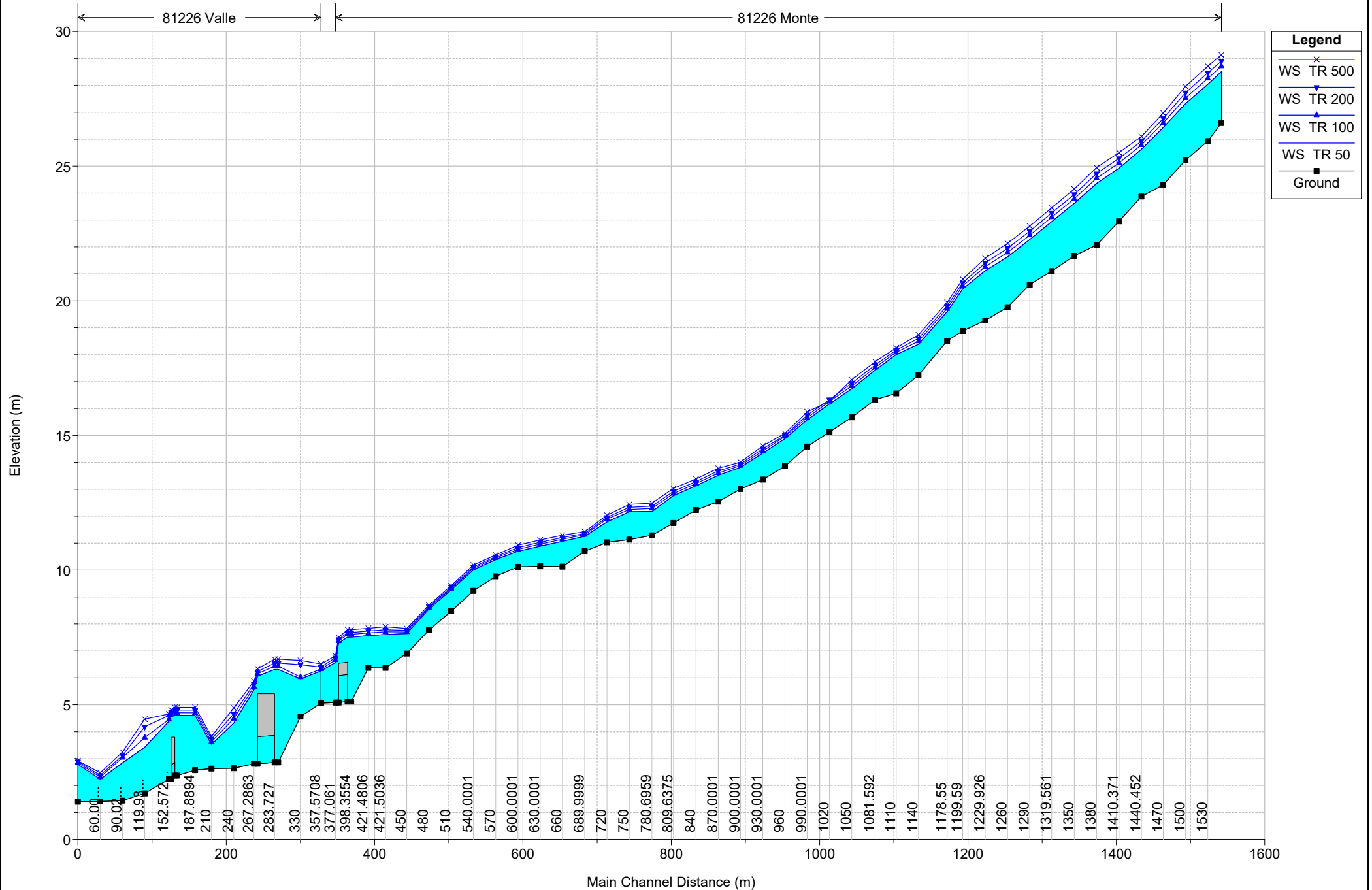
Geom: ppalmas06102016 Flow: 09022021

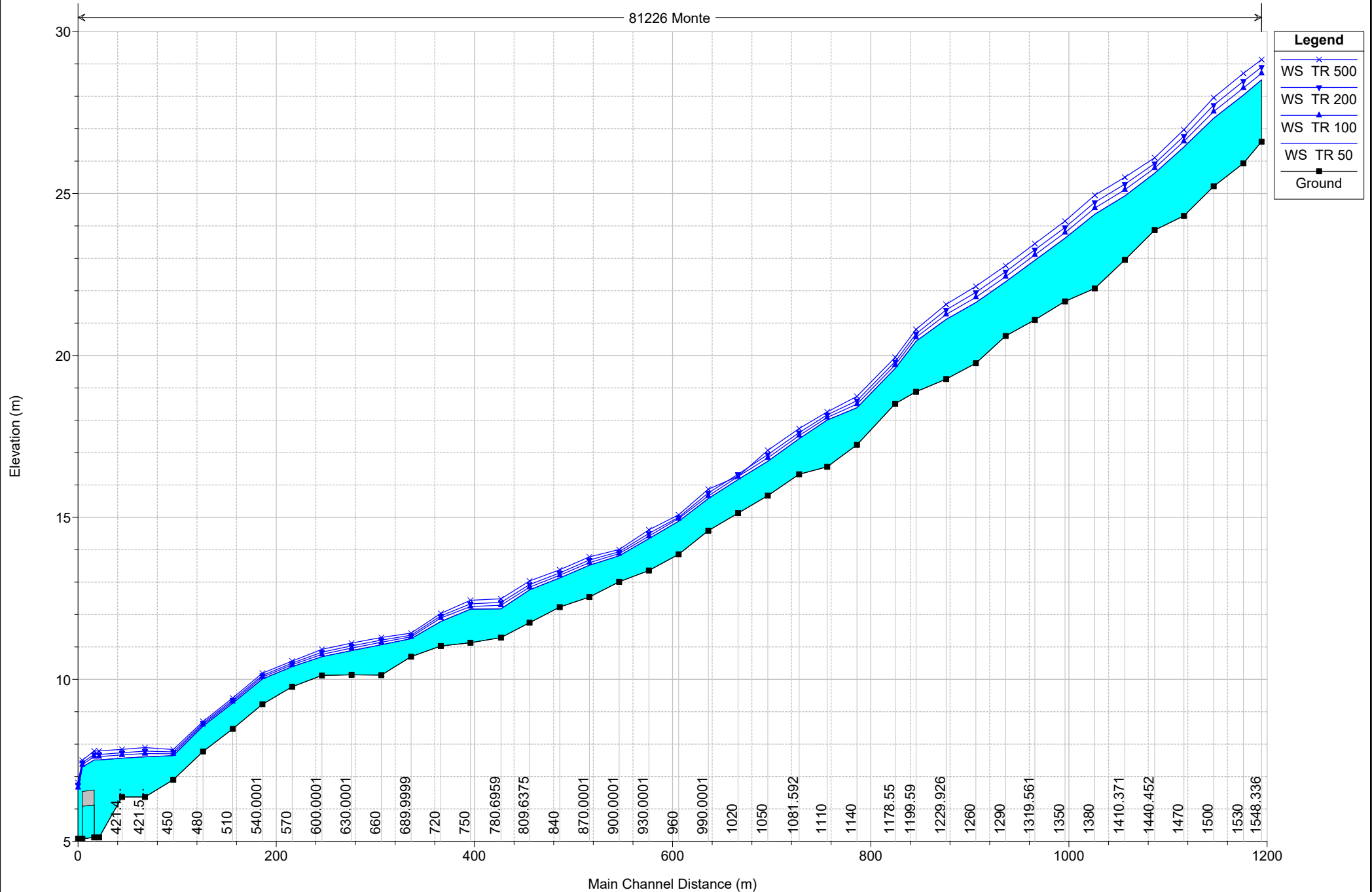
River = 75626 Reach = Monte RS = 29.99996 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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	719.9999	TR 50	10.34	22.69	23.34	23.07	23.37	0.032650	0.84	13.25	26.65	0.35
Monte	719.9999	TR 100	12.33	22.69	23.41	23.11	23.44	0.030384	0.88	15.20	27.30	0.35
Monte	719.9999	TR 200	14.36	22.69	23.48	23.14	23.51	0.028757	0.91	17.07	27.81	0.34
Monte	719.9999	TR 500	17.12	22.69	23.56	23.18	23.60	0.027055	0.96	19.50	28.36	0.34
Monte	689.9999	TR 50	10.34	21.75	22.68	22.24	22.71	0.015749	0.73	15.40	22.48	0.26
Monte	689.9999	TR 100	12.33	21.75	22.75		22.78	0.016819	0.80	16.90	22.80	0.27
Monte	689.9999	TR 200	14.36	21.75	22.81		22.84	0.018106	0.86	18.22	23.08	0.28
Monte	689.9999	TR 500	17.12	21.75	22.88		22.92	0.019468	0.94	19.95	23.44	0.30
Monte	660	TR 50	10.34	20.92	21.41		21.55	0.196947	1.76	6.59	17.73	0.83
Monte	660	TR 100	12.33	20.92	21.49		21.62	0.159616	1.75	7.88	18.01	0.77
Monte	660	TR 200	14.36	20.92	21.57		21.70	0.123538	1.70	9.42	18.35	0.69
Monte	660	TR 500	17.12	20.92	21.68		21.80	0.098026	1.68	11.35	18.76	0.63
Monte	633.1082	TR 50	10.34	18.63	21.04	19.84	21.05	0.005924	0.62	23.16	32.23	0.15
Monte	633.1082	TR 100	12.33	18.63	21.18	20.00	21.19	0.005016	0.60	27.88	32.83	0.14
Monte	633.1082	TR 200	14.36	18.63	21.29	20.16	21.30	0.004810	0.61	31.44	33.27	0.14
Monte	633.1082	TR 500	17.12	18.63	21.38	20.31	21.39	0.005240	0.65	34.43	33.65	0.15
Monte	621.2015		Culvert									
Monte	604.4436	TR 50	10.34	18.50	19.23	19.23	19.46	0.016385	2.21	5.82	17.00	0.91
Monte	604.4436	TR 100	12.33	18.50	19.29	19.29	19.55	0.016103	2.32	6.96	17.72	0.91
Monte	604.4436	TR 200	14.36	18.50	19.35	19.35	19.63	0.015878	2.43	8.07	18.26	0.91
Monte	604.4436	TR 500	17.12	18.50	19.43	19.43	19.73	0.015873	2.56	9.43	18.79	0.91
Monte	569.9999	TR 50	10.34	17.32	17.97	18.17	18.59	0.039551	3.68	3.19	9.16	1.62
Monte	569.9999	TR 100	12.33	17.32	18.03	18.23	18.69	0.038464	3.86	3.70	11.24	1.62
Monte	569.9999	TR 200	14.36	17.32	18.07	18.29	18.78	0.038022	4.05	4.38	17.23	1.63
Monte	569.9999	TR 500	17.12	17.32	18.13	18.36	18.88	0.037406	4.25	5.39	17.81	1.65
Monte	540	TR 50	10.34	16.74	17.40	17.46	17.72	0.018406	2.56	5.44	14.87	1.11
Monte	540	TR 100	12.33	16.74	17.46	17.52	17.82	0.018957	2.75	6.21	15.38	1.14
Monte	540	TR 200	14.36	16.74	17.51	17.55	17.91	0.018864	2.91	7.07	17.07	1.16
Monte	540	TR 500	17.12	16.74	17.59	17.69	18.03	0.018210	3.08	8.57	21.39	1.16
Monte	510.0507	TR 50	10.34	16.13	16.63	16.74	17.00	0.032101	2.97	6.25	25.26	1.42
Monte	510.0507	TR 100	12.33	16.13	16.67	16.79	17.08	0.032586	3.17	7.25	26.05	1.46
Monte	510.0507	TR 200	14.36	16.13	16.70	16.84	17.16	0.033820	3.37	8.13	26.74	1.50
Monte	510.0507	TR 500	17.12	16.13	16.74	16.91	17.27	0.036442	3.67	9.13	27.53	1.57
Monte	479.9878	TR 50	10.34	15.42	15.84	15.87	16.02	0.029256	2.48	7.99	28.75	1.32
Monte	479.9878	TR 100	12.33	15.42	15.88	15.90	16.08	0.029773	2.65	8.98	29.31	1.35
Monte	479.9878	TR 200	14.36	15.42	15.91	15.95	16.13	0.029899	2.81	9.99	30.12	1.37
Monte	479.9878	TR 500	17.12	15.42	15.96	15.99	16.20	0.029341	2.97	11.36	30.87	1.38
Monte	450.0306	TR 50	10.34	14.61	15.07	15.10	15.25	0.022669	2.35	7.13	27.32	1.18
Monte	450.0306	TR 100	12.33	14.61	15.11	15.14	15.30	0.022404	2.48	8.15	27.84	1.19
Monte	450.0306	TR 200	14.36	14.61	15.14	15.17	15.35	0.022497	2.61	9.10	28.31	1.21
Monte	450.0306	TR 500	17.12	14.61	15.18	15.22	15.42	0.023108	2.79	10.23	28.86	1.24
Monte	420	TR 50	10.34	14.01	14.43	14.43	14.57	0.022004	1.74	6.94	28.03	1.00
Monte	420	TR 100	12.33	14.01	14.46	14.47	14.63	0.022309	1.86	7.84	28.63	1.02
Monte	420	TR 200	14.36	14.01	14.49	14.50	14.68	0.022278	1.97	8.74	29.23	1.03
Monte	420	TR 500	17.12	14.01	14.53	14.55	14.74	0.021771	2.08	9.97	29.73	1.04
Monte	390	TR 50	10.34	13.49	14.32	13.96	14.35	0.001161	0.78	18.71	34.45	0.29
Monte	390	TR 100	12.33	13.49	14.37	14.00	14.40	0.001334	0.87	20.20	35.30	0.32
Monte	390	TR 200	14.36	13.49	14.41	14.03	14.44	0.001503	0.96	21.60	36.03	0.34
Monte	390	TR 500	17.12	13.49	14.46	14.08	14.50	0.001712	1.06	23.38	36.75	0.37
Monte	369.4816	TR 50	10.34	13.27	14.33		14.33	0.000245	0.40	36.92	47.01	0.13
Monte	369.4816	TR 100	12.33	13.27	14.37		14.38	0.000299	0.45	38.98	47.60	0.14
Monte	369.4816	TR 200	14.36	13.27	14.41		14.42	0.000353	0.50	40.88	48.15	0.16
Monte	369.4816	TR 500	17.12	13.27	14.46		14.47	0.000425	0.57	43.30	48.72	0.17
Monte	346.0037	TR 50	10.34	13.16	14.32	13.58	14.33	0.000290	0.42	38.47	50.40	0.13
Monte	346.0037	TR 100	12.33	13.16	14.36	13.62	14.37	0.000360	0.47	40.62	52.19	0.14
Monte	346.0037	TR 200	14.36	13.16	14.40	13.65	14.41	0.000433	0.53	42.64	53.73	0.16
Monte	346.0037	TR 500	17.12	13.16	14.45	13.69	14.46	0.000532	0.61	45.26	55.71	0.18
Monte	330.0659		Bridge									
Monte	320.0913	TR 50	10.34	12.73	13.68		13.72	0.006680	1.03	17.87	36.24	0.38
Monte	320.0913	TR 100	12.33	12.73	13.74		13.78	0.006817	1.09	19.94	36.67	0.38
Monte	320.0913	TR 200	14.36	12.73	13.79		13.84	0.006938	1.15	21.92	38.14	0.39
Monte	320.0913	TR 500	17.12	12.73	13.86		13.91	0.007259	1.23	24.70	45.75	0.41
Monte	300.1927	TR 50	18.05	12.66	13.57		13.59	0.005393	0.42	31.20	61.84	0.16
Monte	300.1927	TR 100	21.60	12.66	13.63		13.65	0.005493	0.45	34.68	63.84	0.16
Monte	300.1927	TR 200	25.21	12.66	13.68		13.71	0.005518	0.47	38.14	65.22	0.16
Monte	300.1927	TR 500	30.11	12.66	13.75		13.78	0.005451	0.49	42.68	66.07	0.16

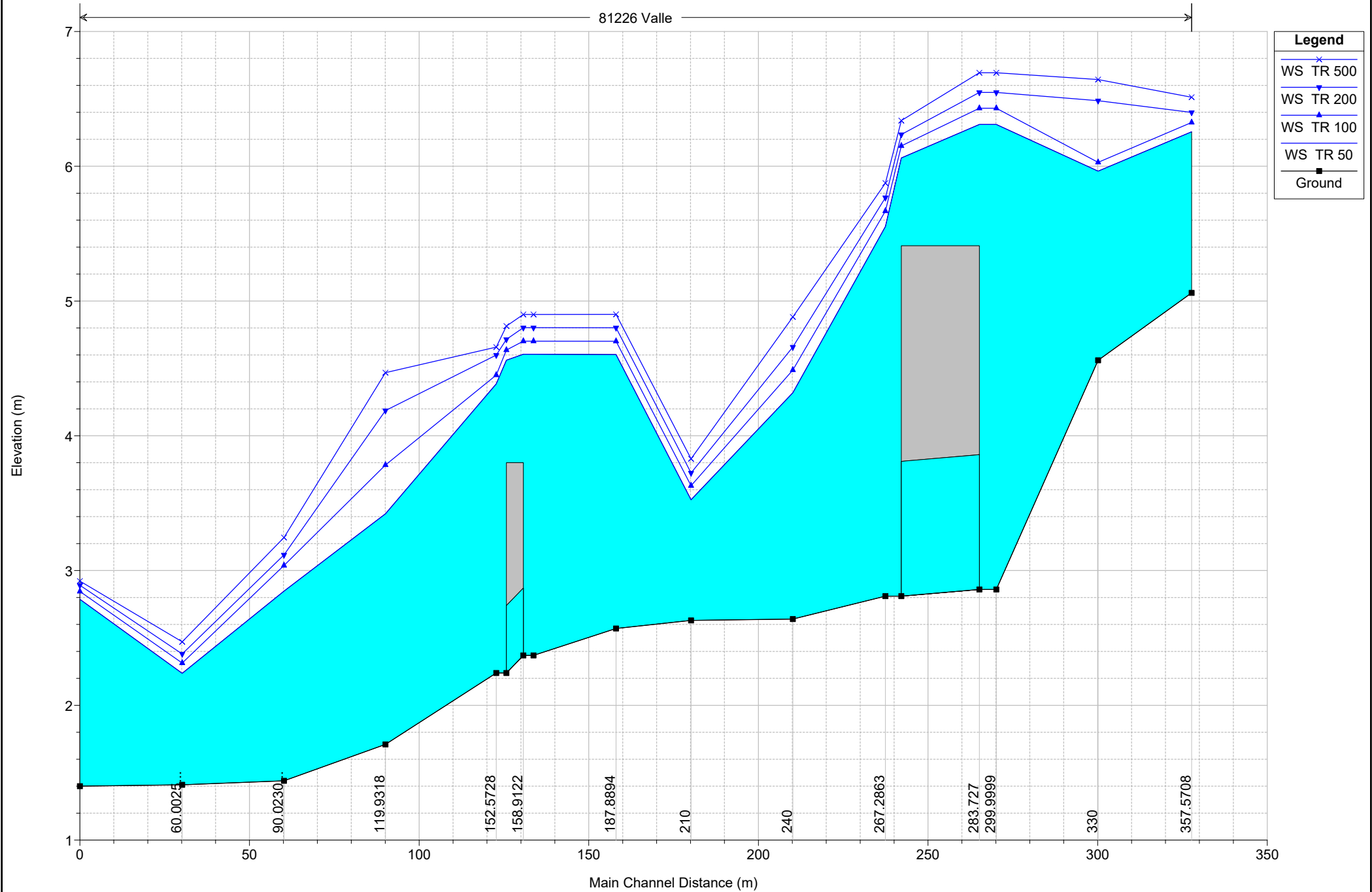
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Monte	270.167	TR 50	18.05	12.37	13.05	13.05	13.22	0.045069	2.39	12.08	34.24	1.02
Monte	270.167	TR 100	21.60	12.37	13.10	13.10	13.28	0.042322	2.47	13.98	35.18	1.00
Monte	270.167	TR 200	25.21	12.37	13.15	13.15	13.33	0.042137	2.57	15.46	35.59	1.01
Monte	270.167	TR 500	30.11	12.37	13.19	13.19	13.40	0.043313	2.73	17.15	36.05	1.04
Monte	239.7281	TR 50	18.05	11.88	12.55	12.40	12.67	0.005990	0.47	14.94	32.95	0.21
Monte	239.7281	TR 100	21.60	11.88	12.61	12.46	12.75	0.006183	0.53	17.04	34.61	0.23
Monte	239.7281	TR 200	25.21	11.88	12.67	12.53	12.82	0.006264	0.58	19.16	36.35	0.24
Monte	239.7281	TR 500	30.11	11.88	12.76	12.61	12.91	0.005956	0.63	22.35	37.46	0.24
Monte	209.9999	TR 50	18.05	11.56	12.36		12.48	0.006698	1.46	12.87	30.70	0.66
Monte	209.9999	TR 100	21.60	11.56	12.44		12.56	0.005961	1.52	15.41	31.73	0.64
Monte	209.9999	TR 200	25.21	11.56	12.51		12.63	0.005379	1.57	17.90	32.68	0.62
Monte	209.9999	TR 500	30.11	11.56	12.61		12.73	0.005142	1.69	21.24	34.61	0.62
Monte	180	TR 50	18.05	11.29	11.95	11.91	12.15	0.018400	1.97	9.18	18.41	0.88
Monte	180	TR 100	21.60	11.29	11.99	11.97	12.24	0.020723	2.19	9.87	18.61	0.95
Monte	180	TR 200	25.21	11.29	12.03	12.03	12.32	0.022460	2.39	10.59	18.81	1.00
Monte	180	TR 500	30.11	11.29	12.11	12.11	12.43	0.021331	2.53	12.00	19.19	1.00
Monte	150.0001	TR 50	18.05	10.57	11.31	11.31	11.53	0.023697	2.06	8.78	21.20	1.02
Monte	150.0001	TR 100	21.60	10.57	11.38	11.38	11.61	0.021039	2.12	10.25	25.78	0.98
Monte	150.0001	TR 200	25.21	10.57	11.43	11.44	11.68	0.019749	2.21	11.74	29.14	0.97
Monte	150.0001	TR 500	30.11	10.57	11.47	11.52	11.77	0.022312	2.45	12.81	31.38	1.04
Monte	119.8337	TR 50	18.05	9.14	9.90	10.08	10.49	0.052845	3.39	5.32	14.11	1.76
Monte	119.8337	TR 100	21.60	9.14	9.95	10.17	10.61	0.052719	3.61	5.99	14.45	1.79
Monte	119.8337	TR 200	25.21	9.14	9.99	10.25	10.72	0.052205	3.76	6.70	15.25	1.80
Monte	119.8337	TR 500	30.11	9.14	10.07	10.32	10.81	0.043124	3.81	7.95	16.63	1.68
Monte	90.00002	TR 50	18.05	8.14	8.63	8.79	9.27	0.032058	4.11	5.35	30.96	2.29
Monte	90.00002	TR 100	21.60	8.14	8.65	8.83	9.38	0.033067	4.35	5.95	31.08	2.36
Monte	90.00002	TR 200	25.21	8.14	8.67	8.86	9.48	0.033578	4.56	6.53	31.20	2.41
Monte	90.00002	TR 500	30.11	8.14	8.69	8.91	9.63	0.035511	4.87	7.17	31.32	2.50
Monte	60	TR 50	18.05	6.94	7.54	7.73	8.26	0.037139	4.04	4.89	25.89	2.10
Monte	60	TR 100	21.60	6.94	7.57	7.77	8.35	0.036957	4.21	5.58	27.77	2.12
Monte	60	TR 200	25.21	6.94	7.60	7.80	8.43	0.038254	4.48	6.37	29.47	2.18
Monte	60	TR 500	30.11	6.94	7.62	7.84	8.55	0.038348	4.67	7.16	30.12	2.21
Monte	29.99996	TR 50	18.05	5.95	6.57	6.75	7.27	0.030218	4.23	5.05	26.79	2.18
Monte	29.99996	TR 100	21.60	5.95	6.60	6.79	7.36	0.030715	4.38	5.72	28.28	2.20
Monte	29.99996	TR 200	25.21	5.95	6.62	6.83	7.42	0.030405	4.49	6.51	29.91	2.19
Monte	29.99996	TR 500	30.11	5.95	6.66	6.88	7.52	0.031415	4.71	7.49	31.51	2.23





ppalmas06102016 Plan: 09022021 10/02/2021

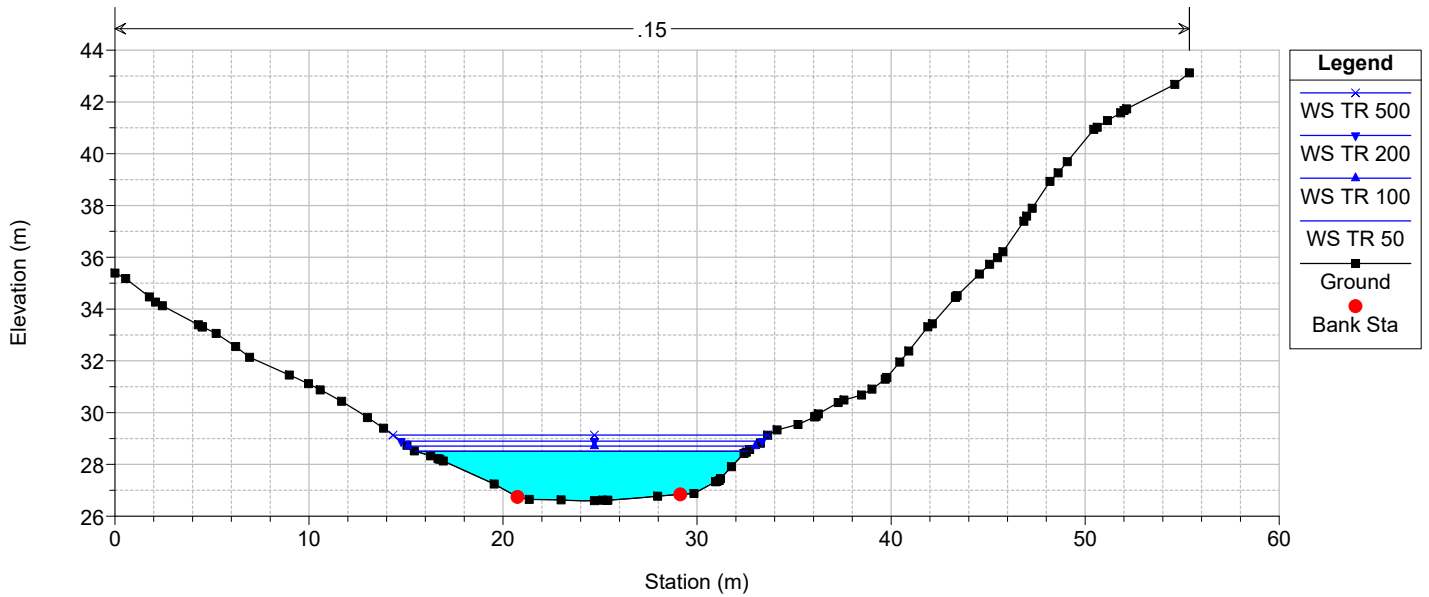
Geom: ppalmas06102016 Flow: 09022021 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

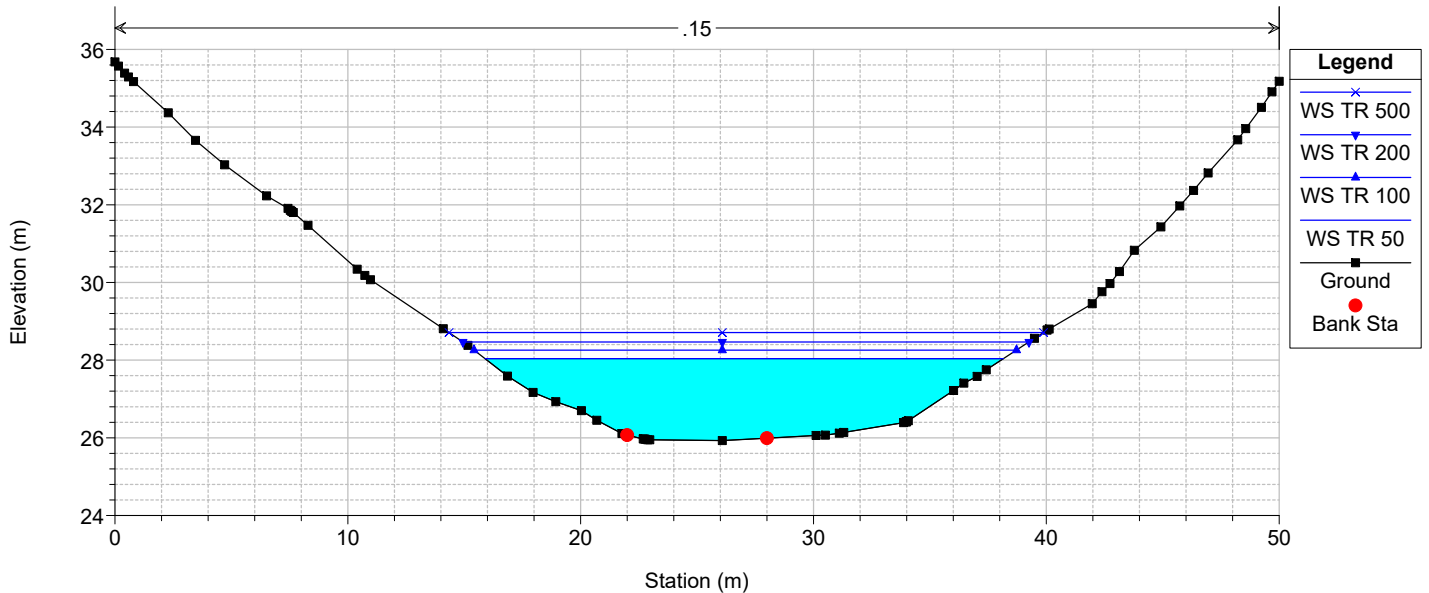
River = 81226 Reach = Monte RS = 1548.336 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

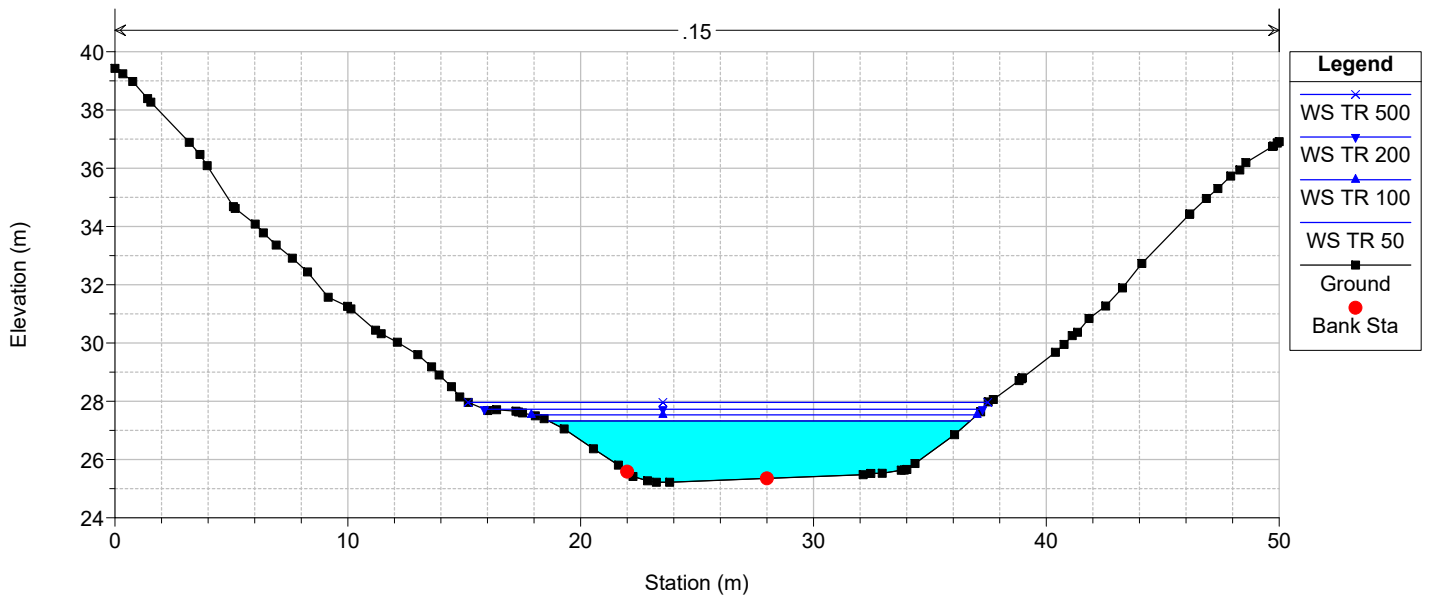
River = 81226 Reach = Monte RS = 1530 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

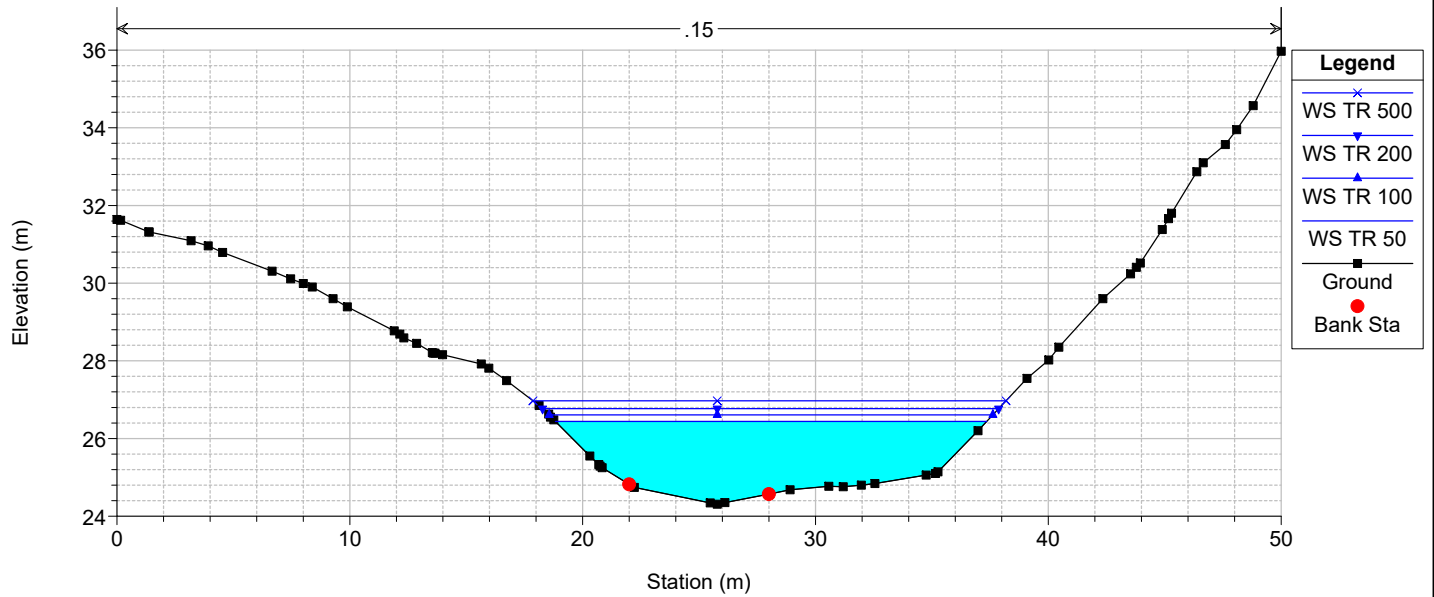
River = 81226 Reach = Monte RS = 1500 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

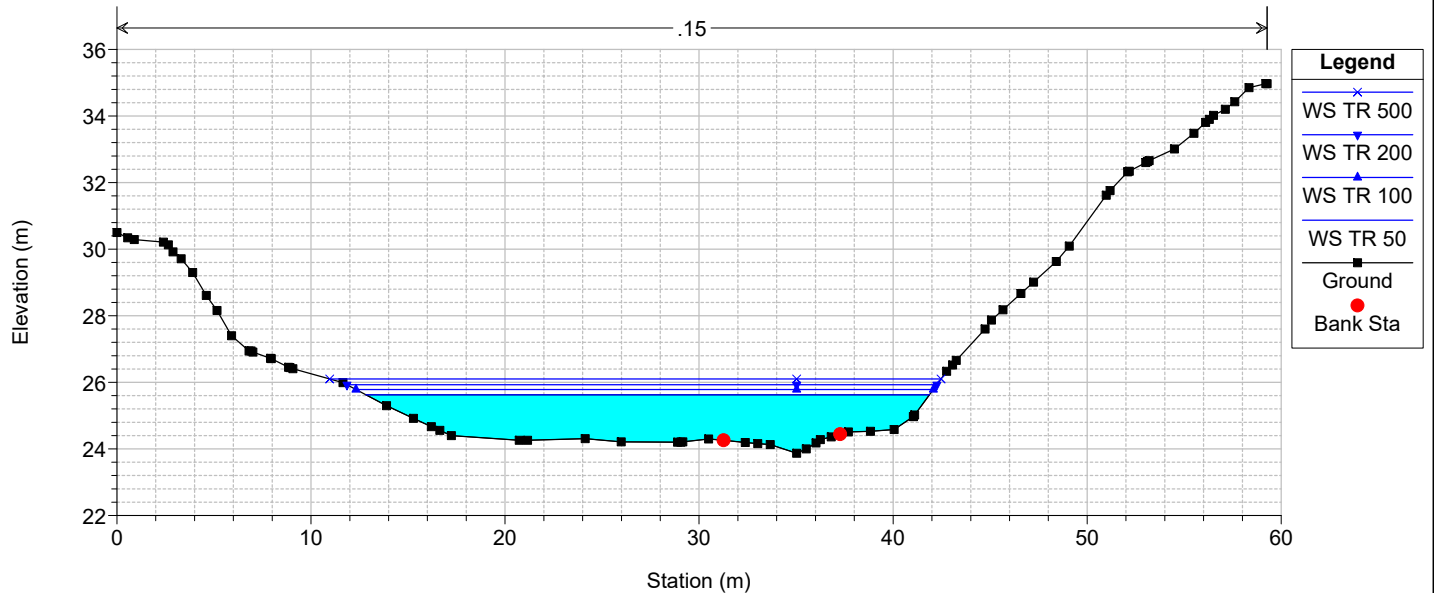
River = 81226 Reach = Monte RS = 1470 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

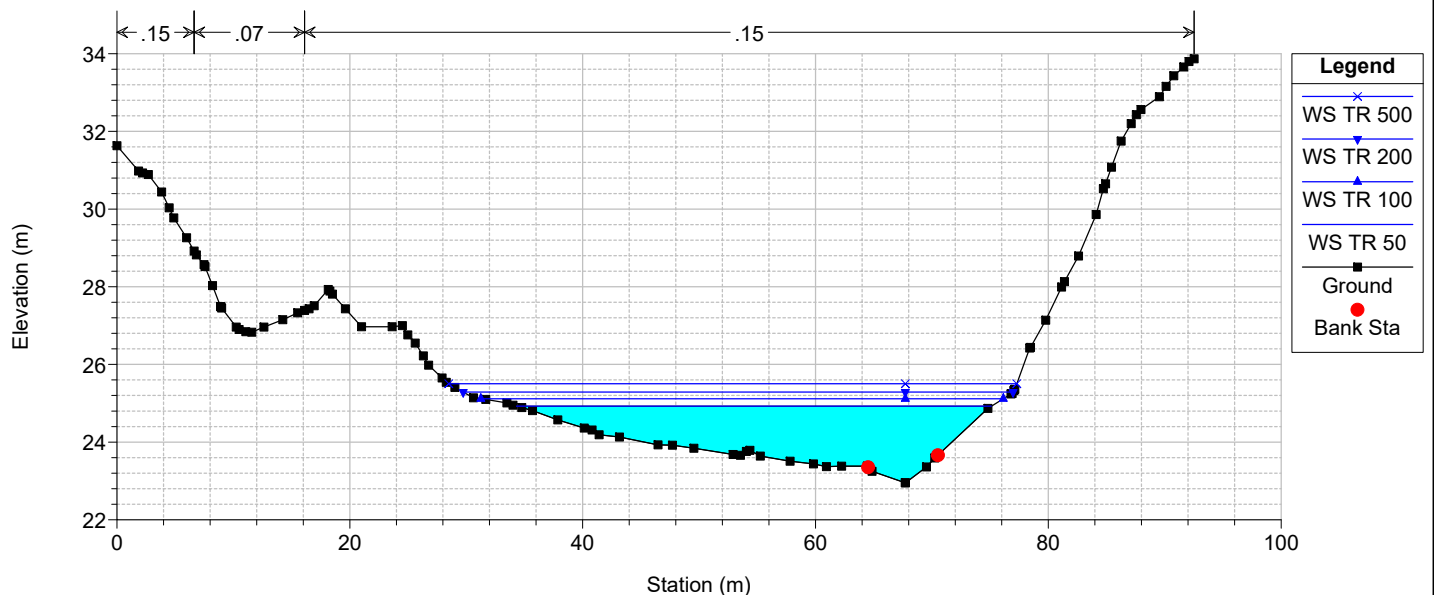
River = 81226 Reach = Monte RS = 1440.452 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

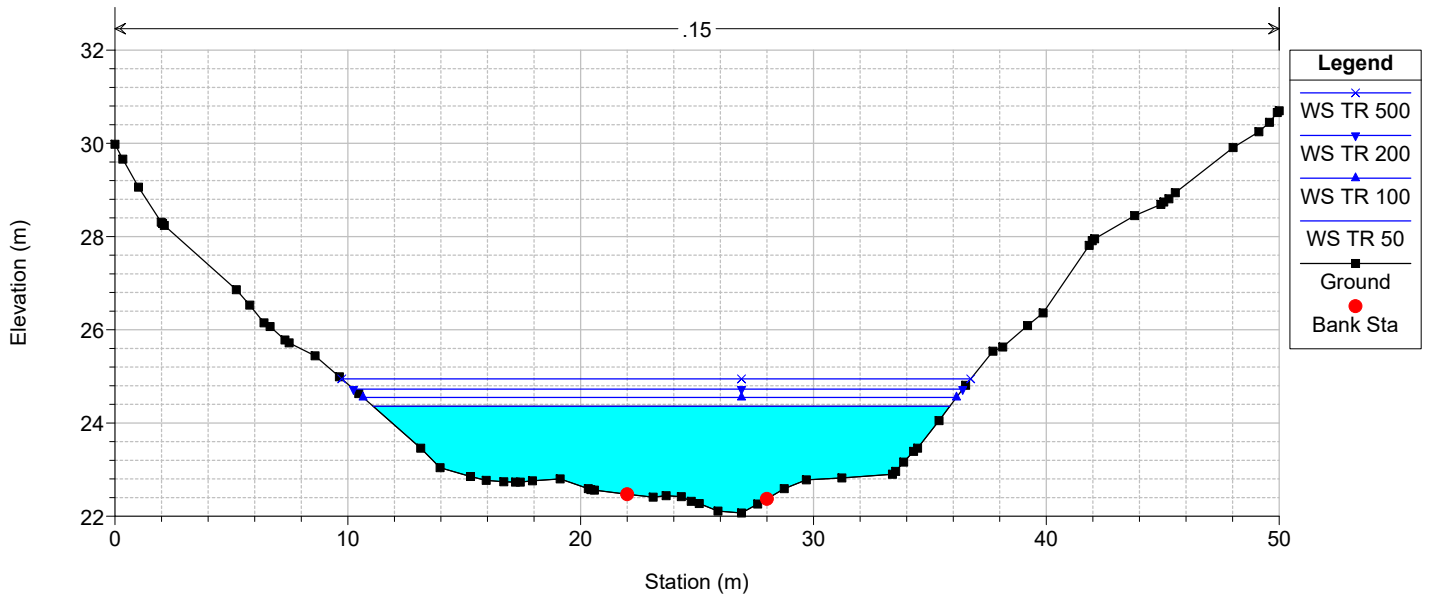
River = 81226 Reach = Monte RS = 1410.371 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

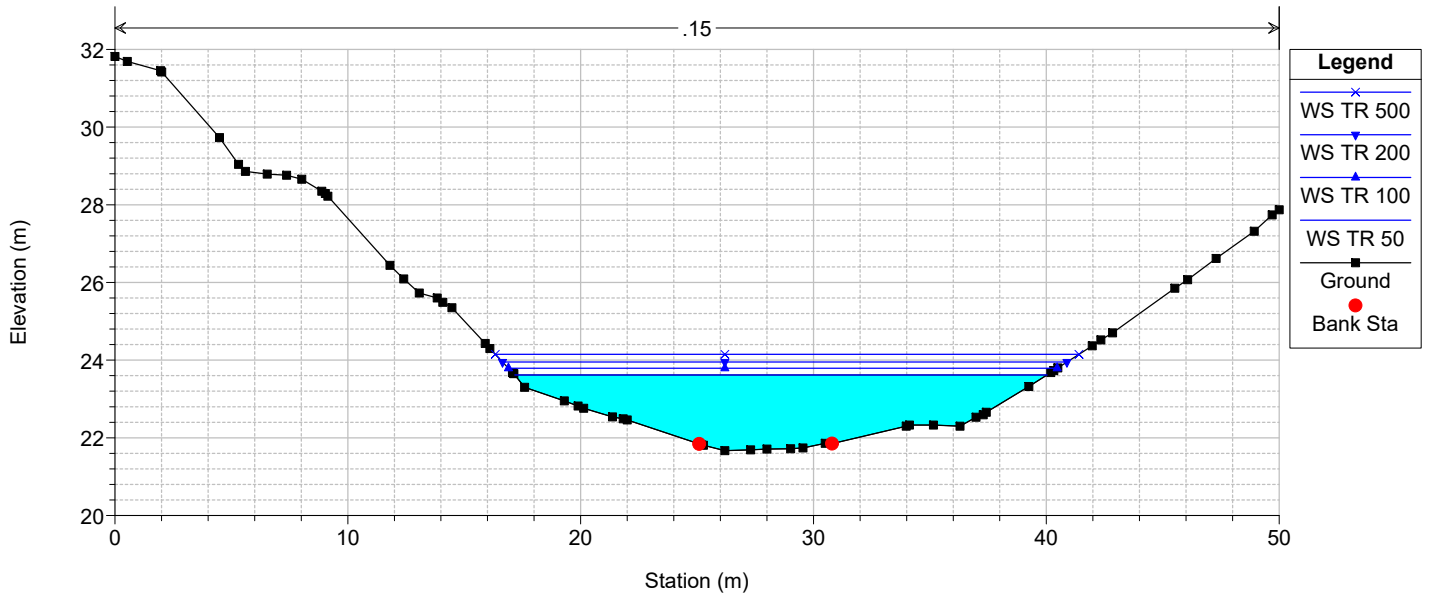
River = 81226 Reach = Monte RS = 1380 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

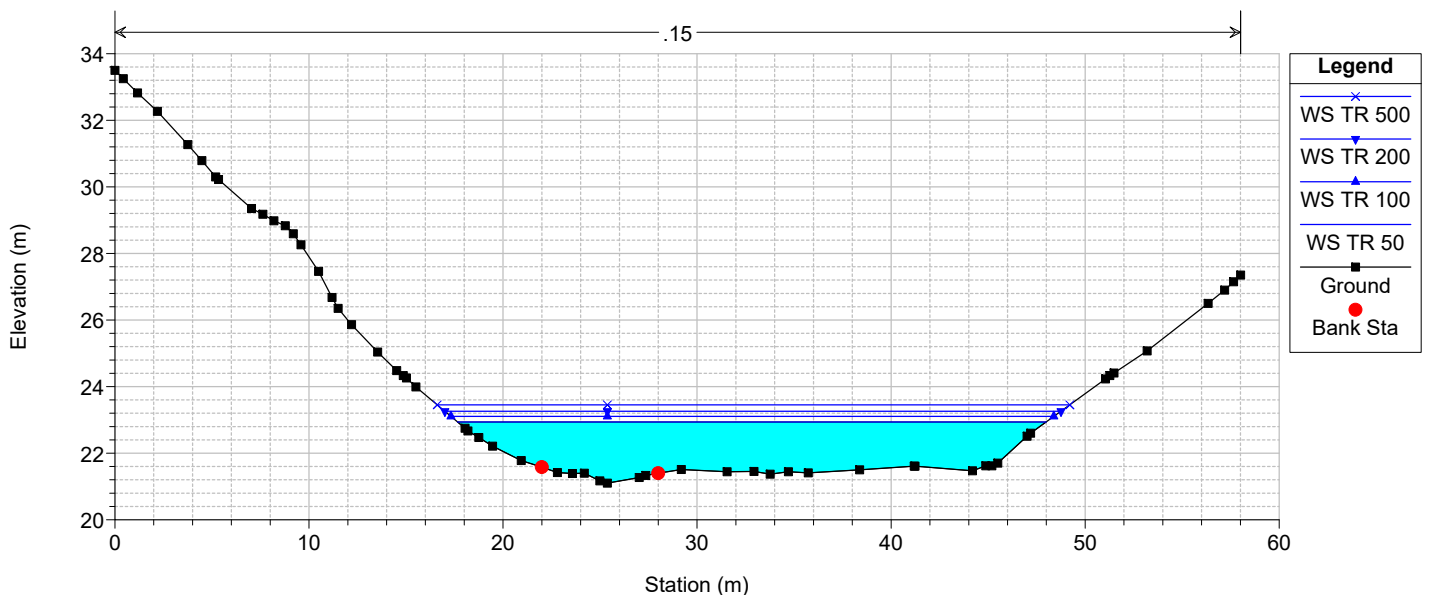
River = 81226 Reach = Monte RS = 1350 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

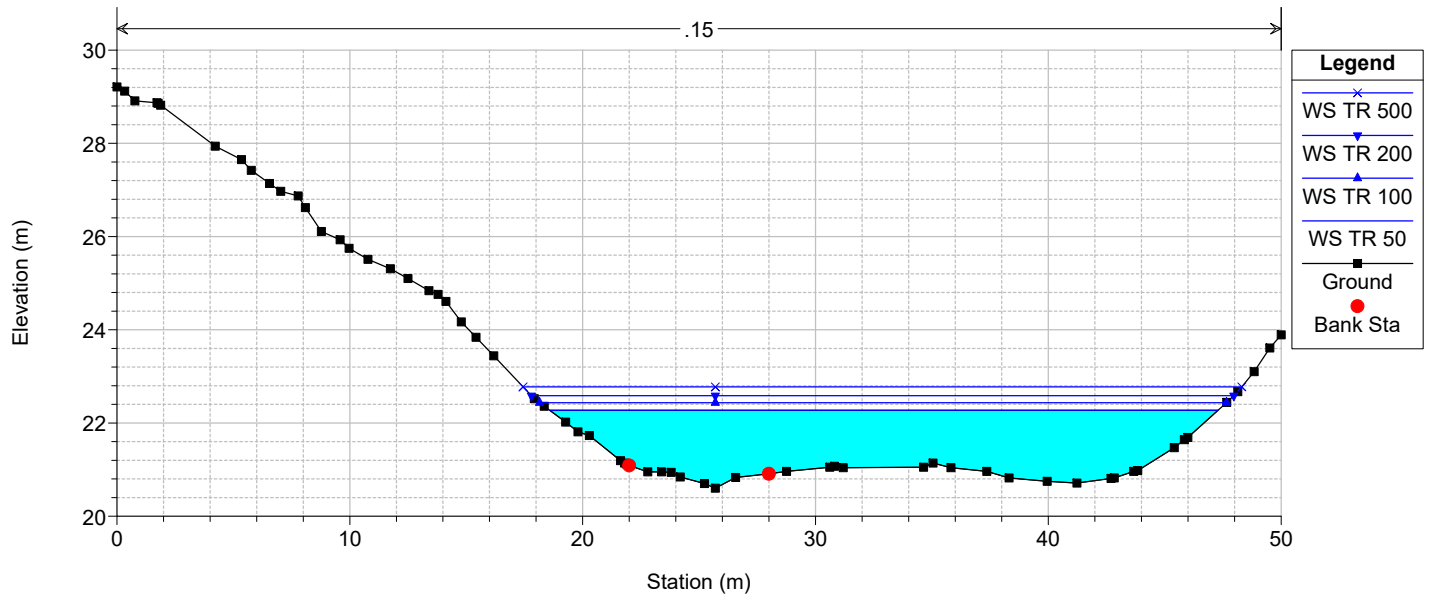
River = 81226 Reach = Monte RS = 1319.561 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

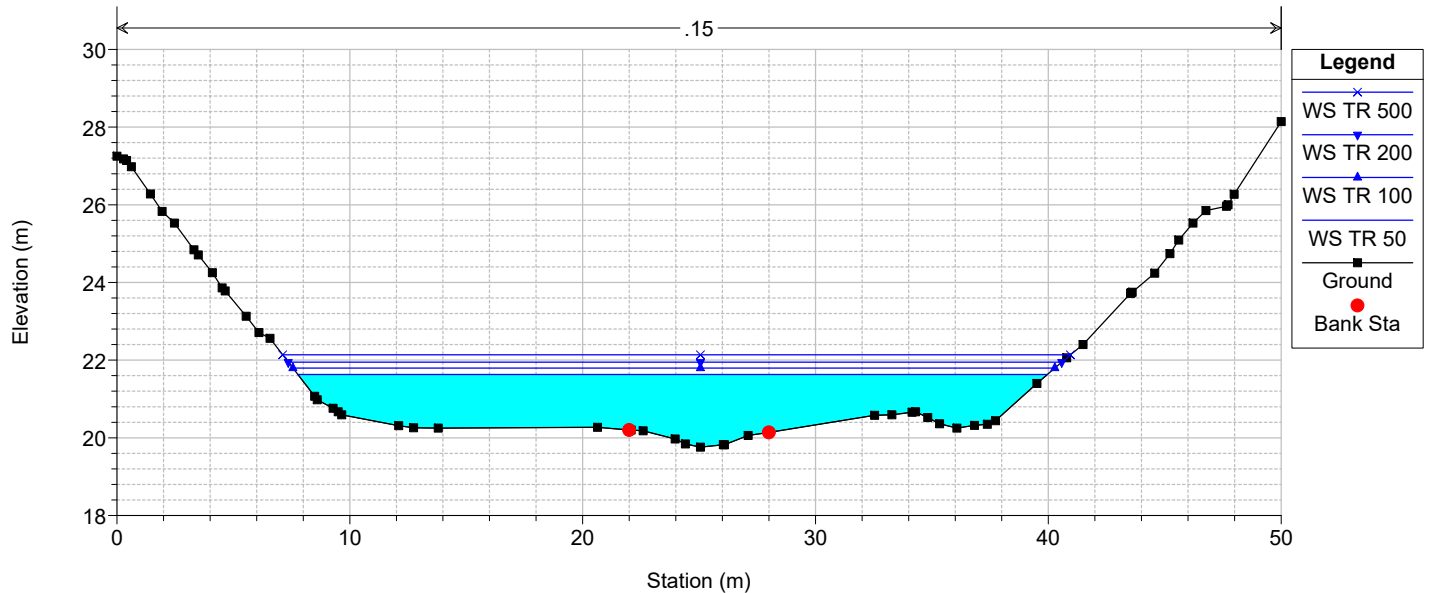
River = 81226 Reach = Monte RS = 1290 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

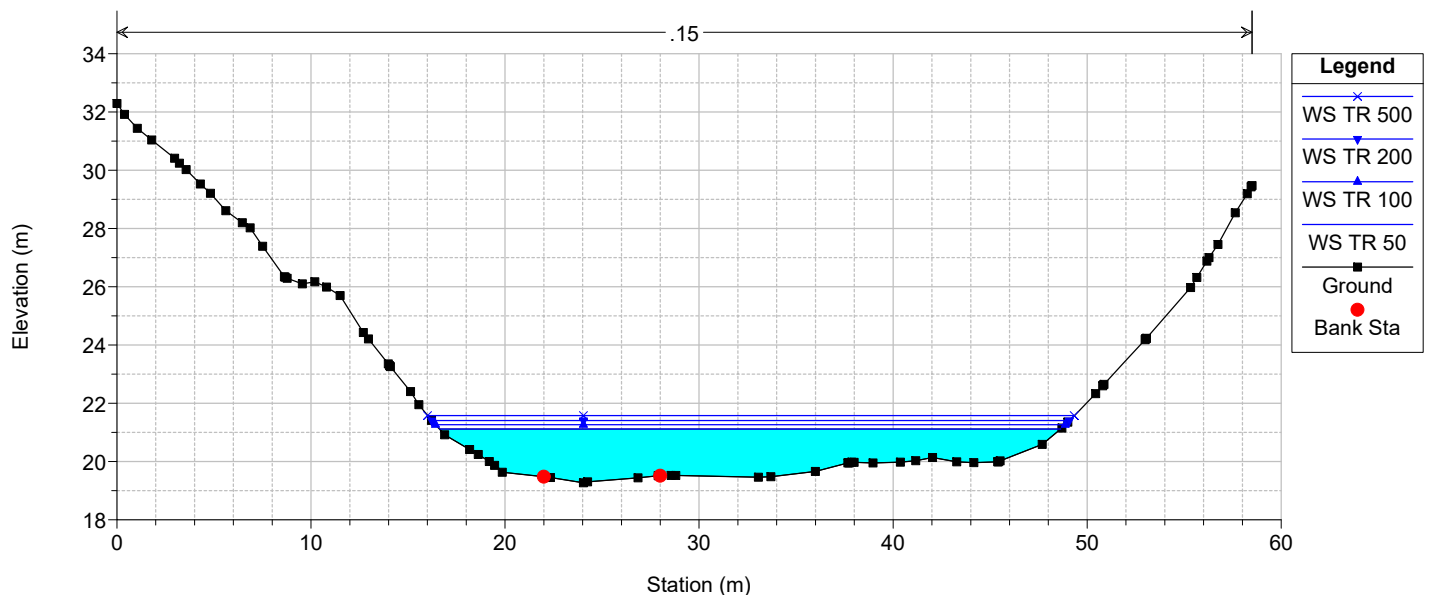
River = 81226 Reach = Monte RS = 1260 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

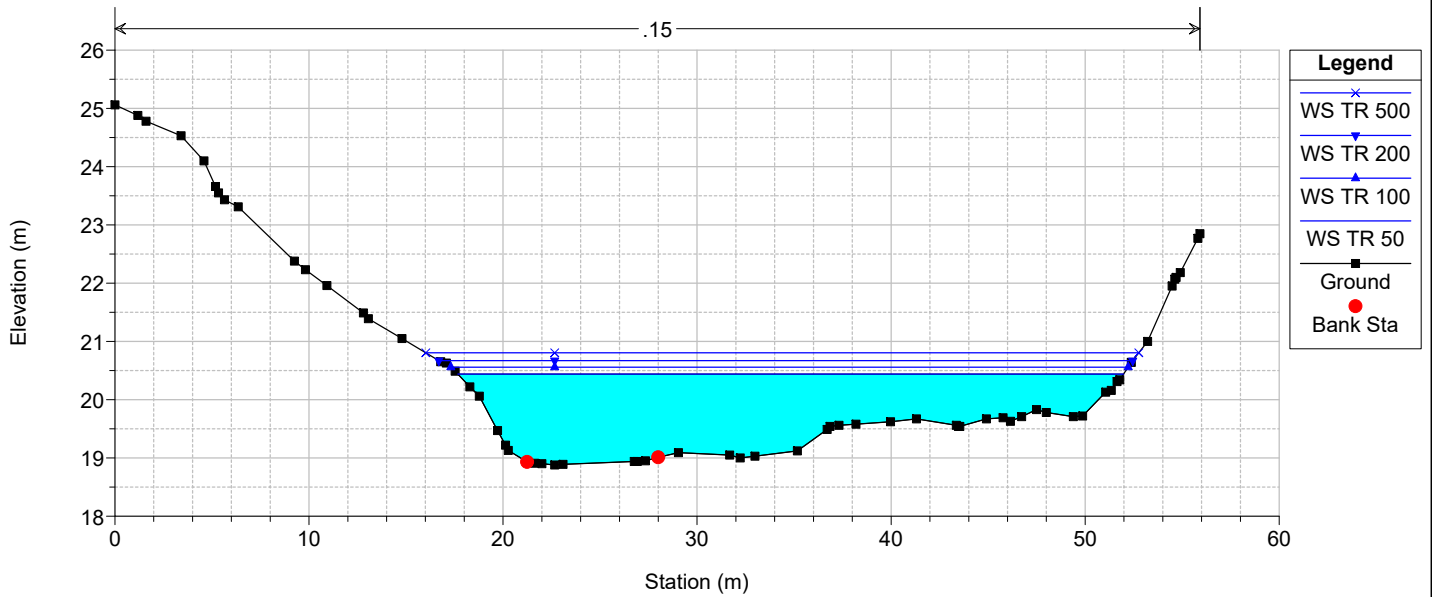
River = 81226 Reach = Monte RS = 1229.926 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

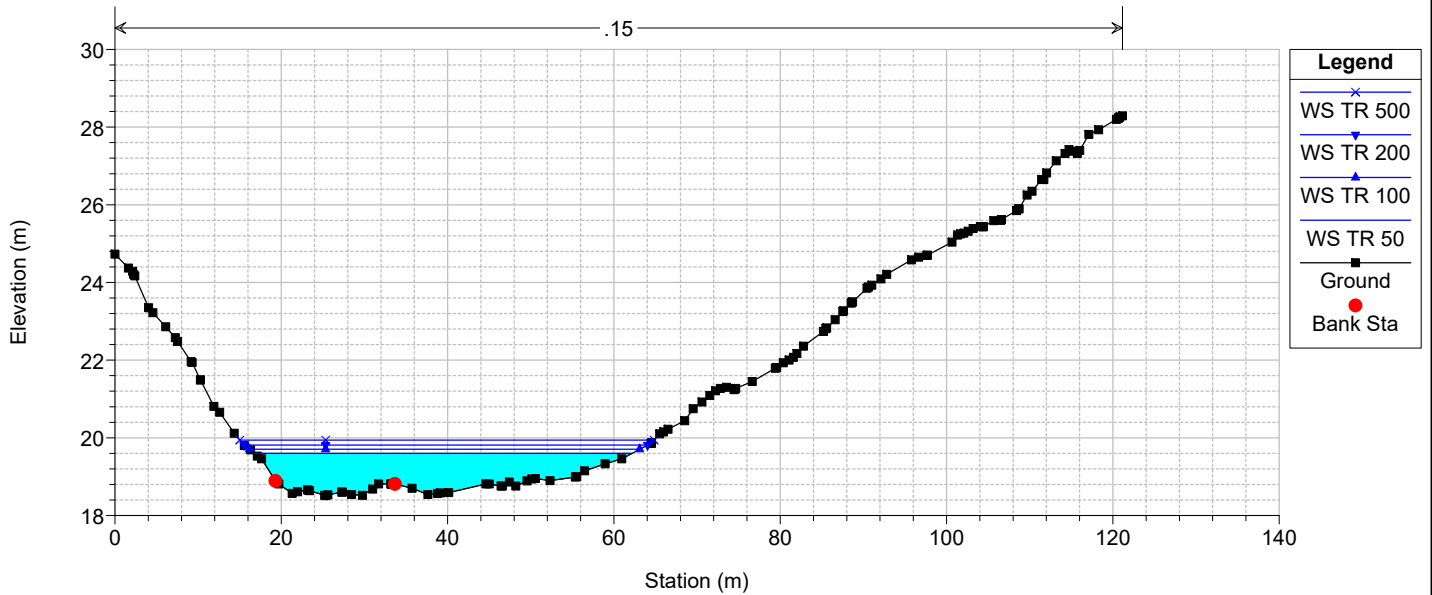
River = 81226 Reach = Monte RS = 1199.59 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

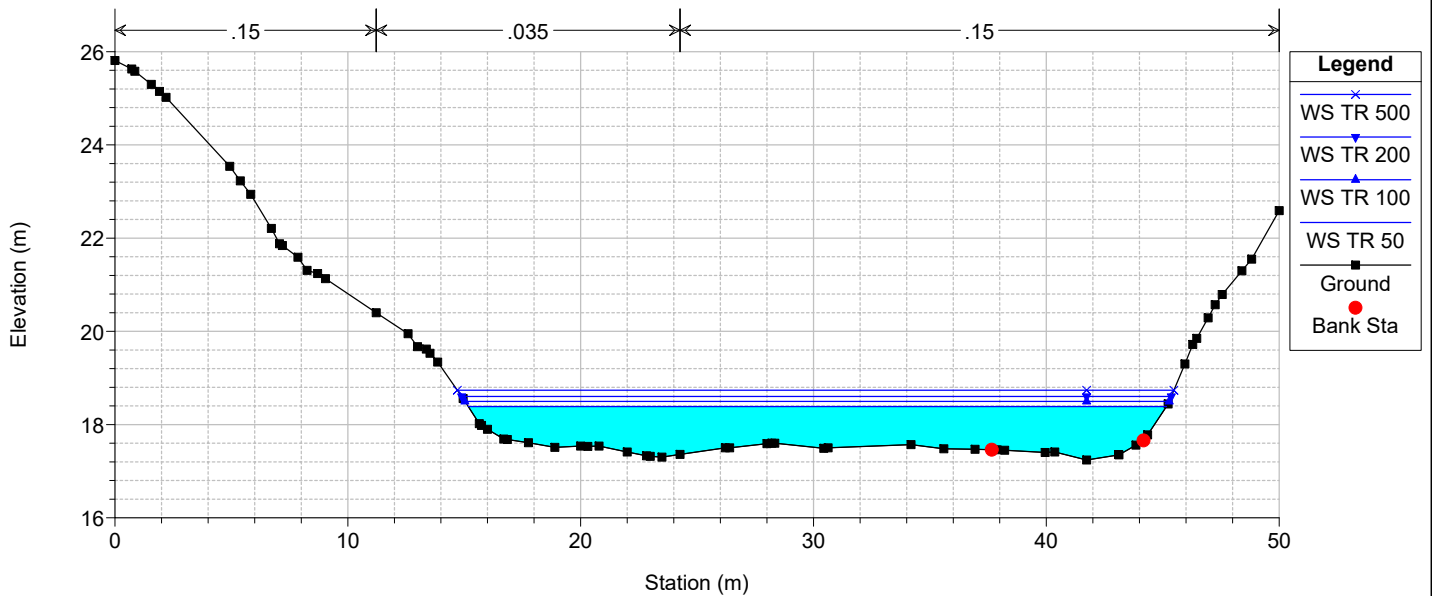
River = 81226 Reach = Monte RS = 1178.55 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

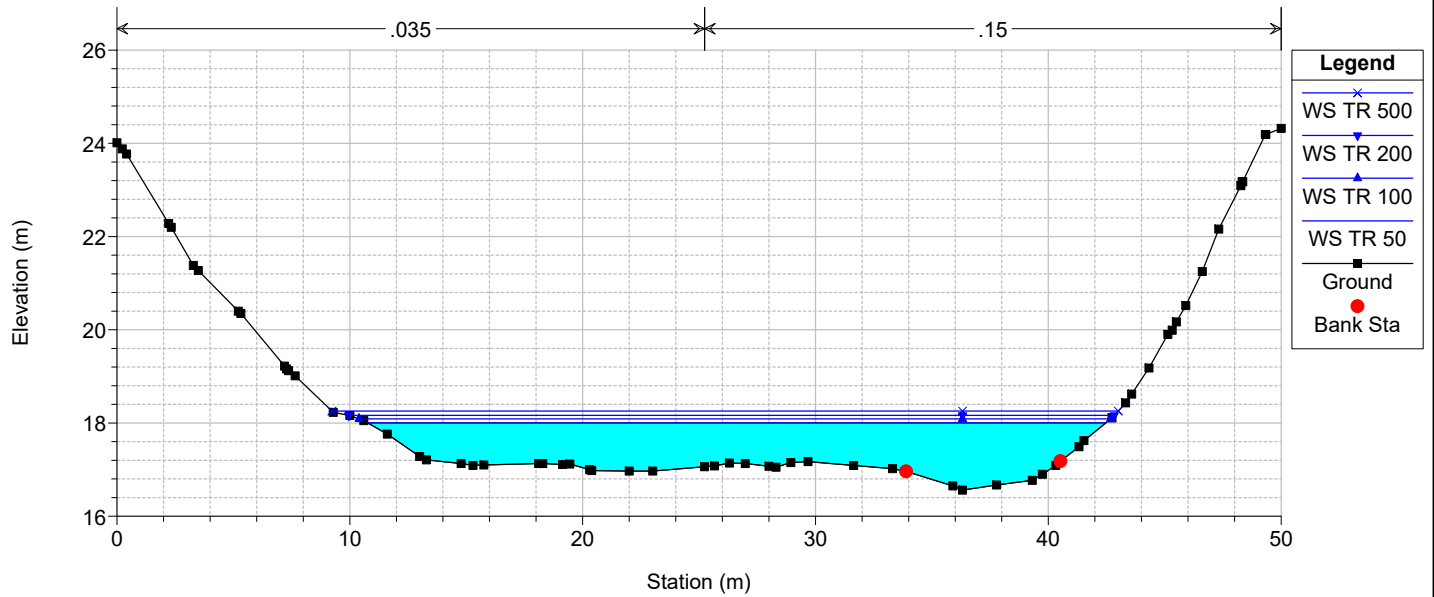
River = 81226 Reach = Monte RS = 1140 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

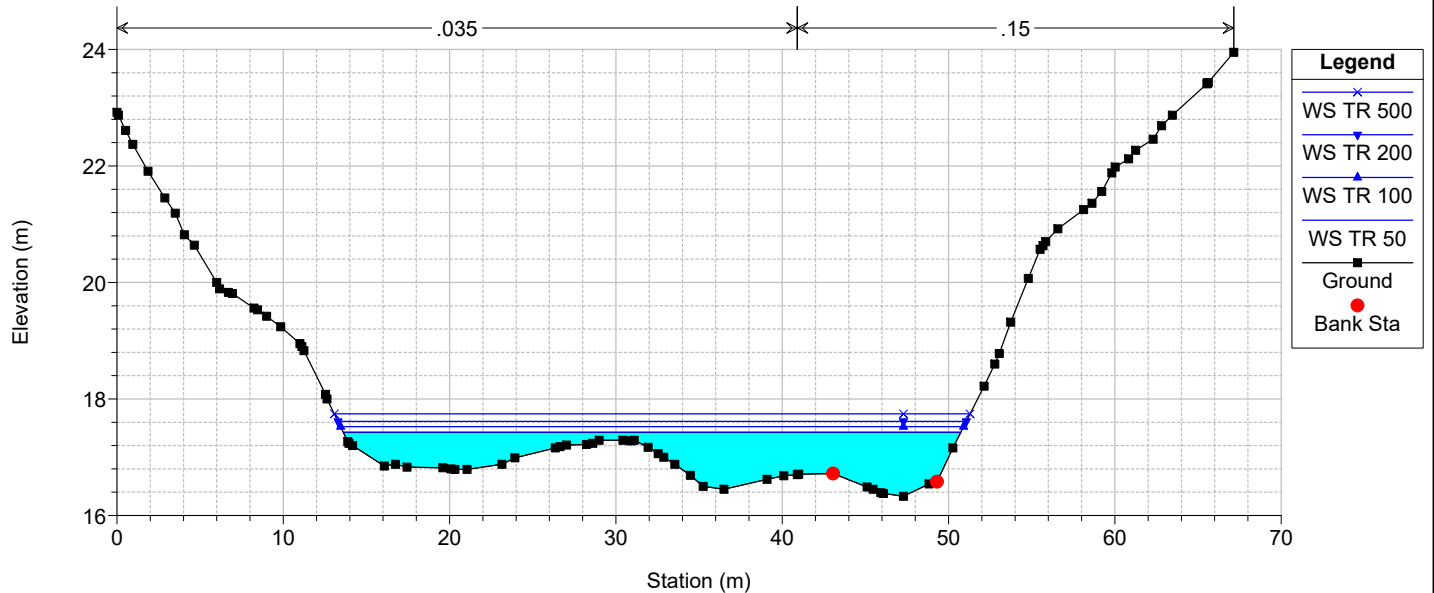
River = 81226 Reach = Monte RS = 1110 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

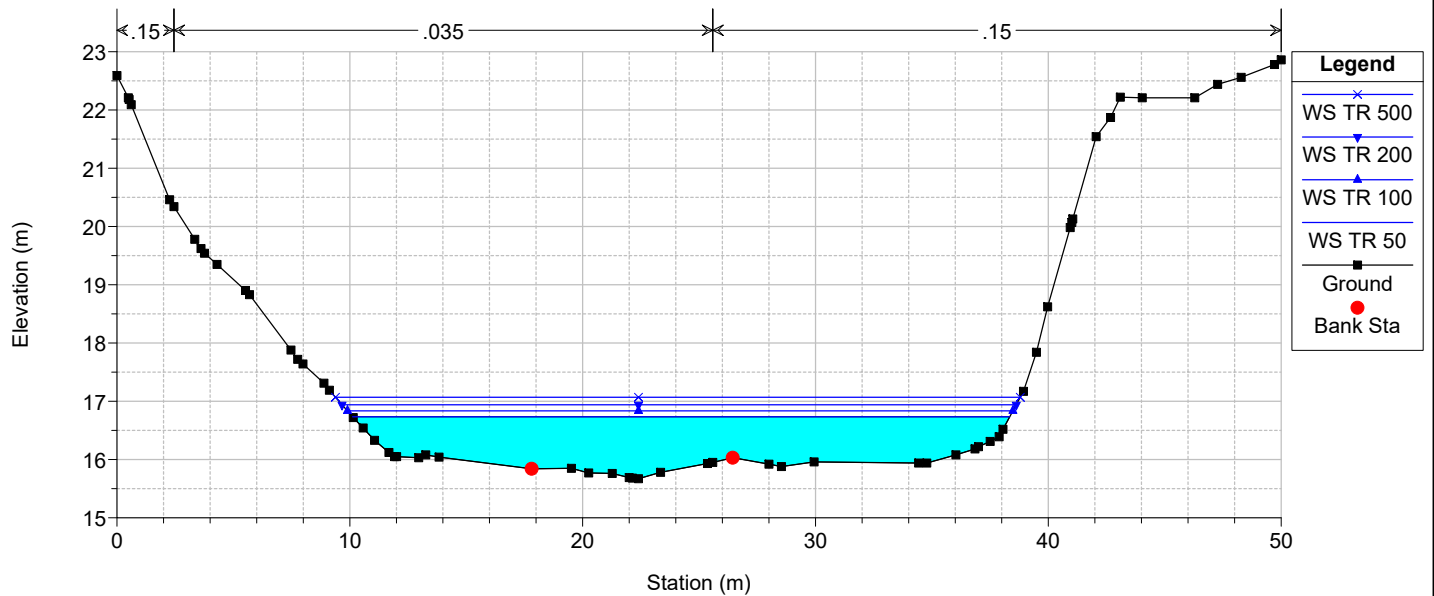
River = 81226 Reach = Monte RS = 1081.592 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

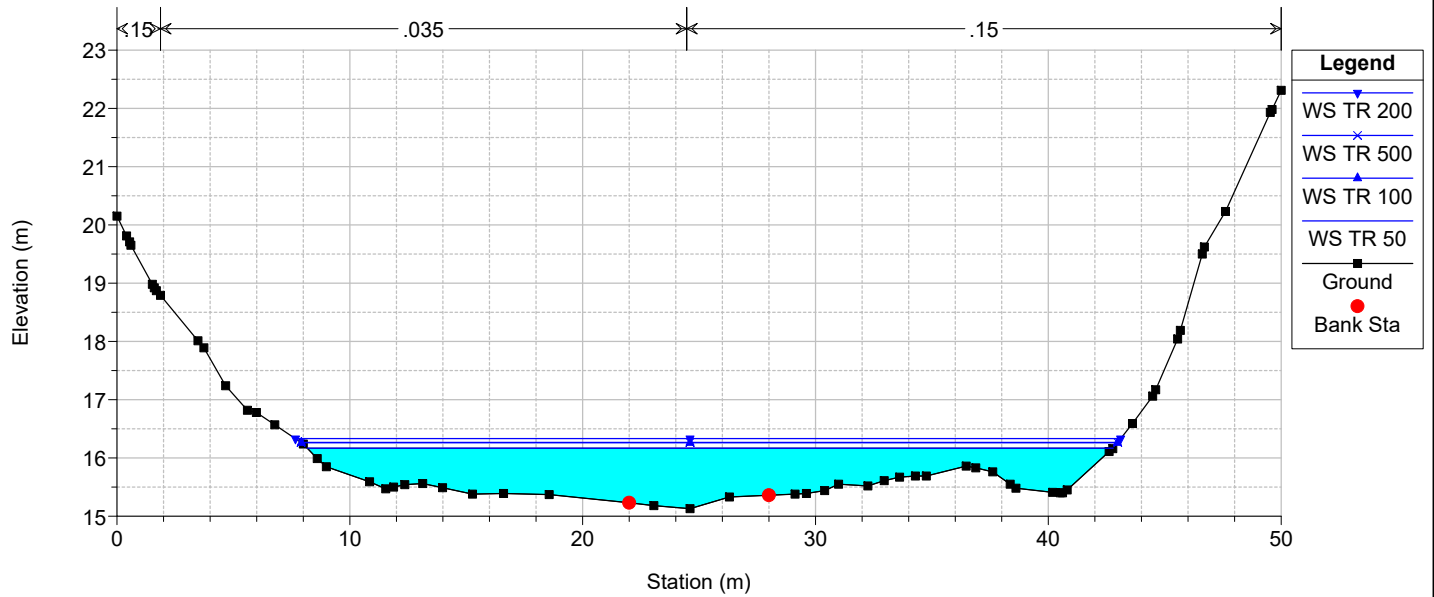
River = 81226 Reach = Monte RS = 1050 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

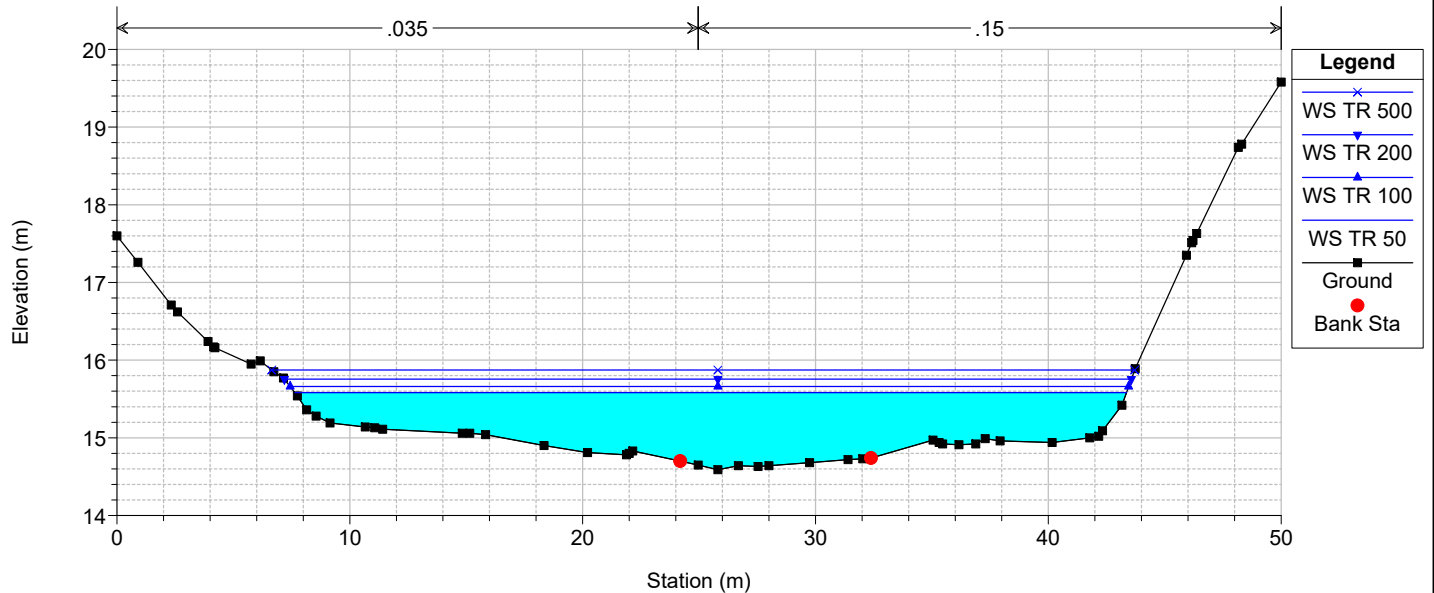
River = 81226 Reach = Monte RS = 1020 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

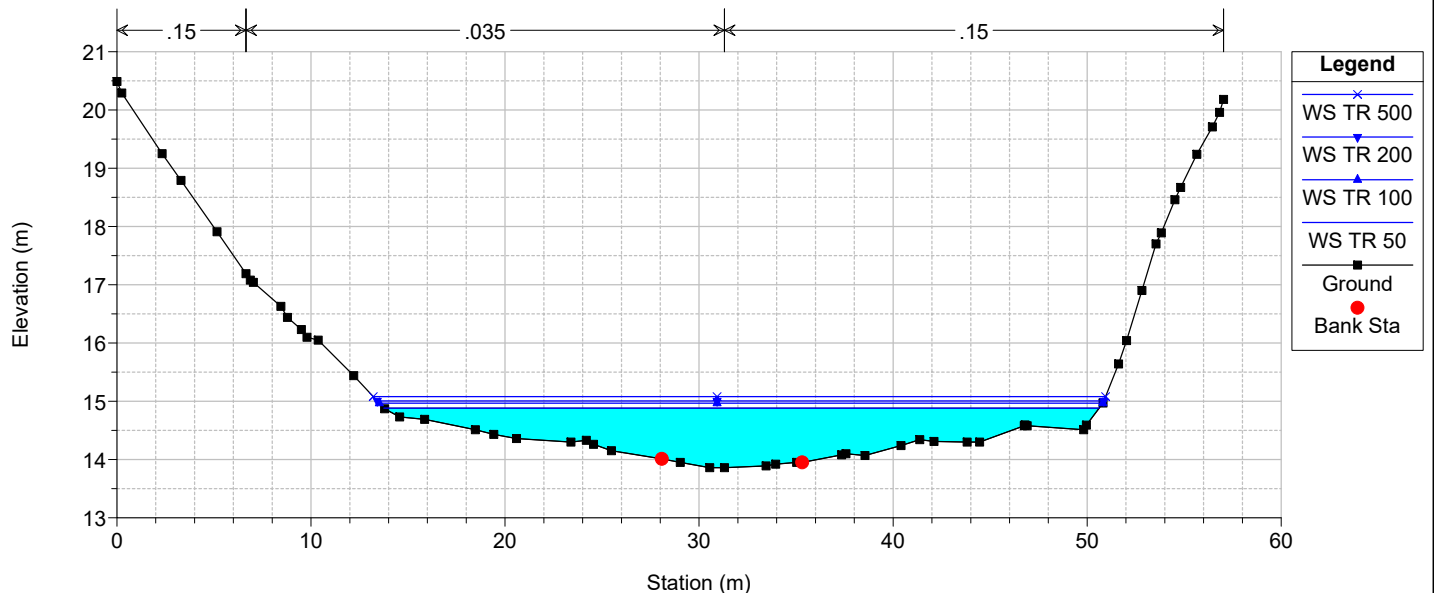
River = 81226 Reach = Monte RS = 990.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

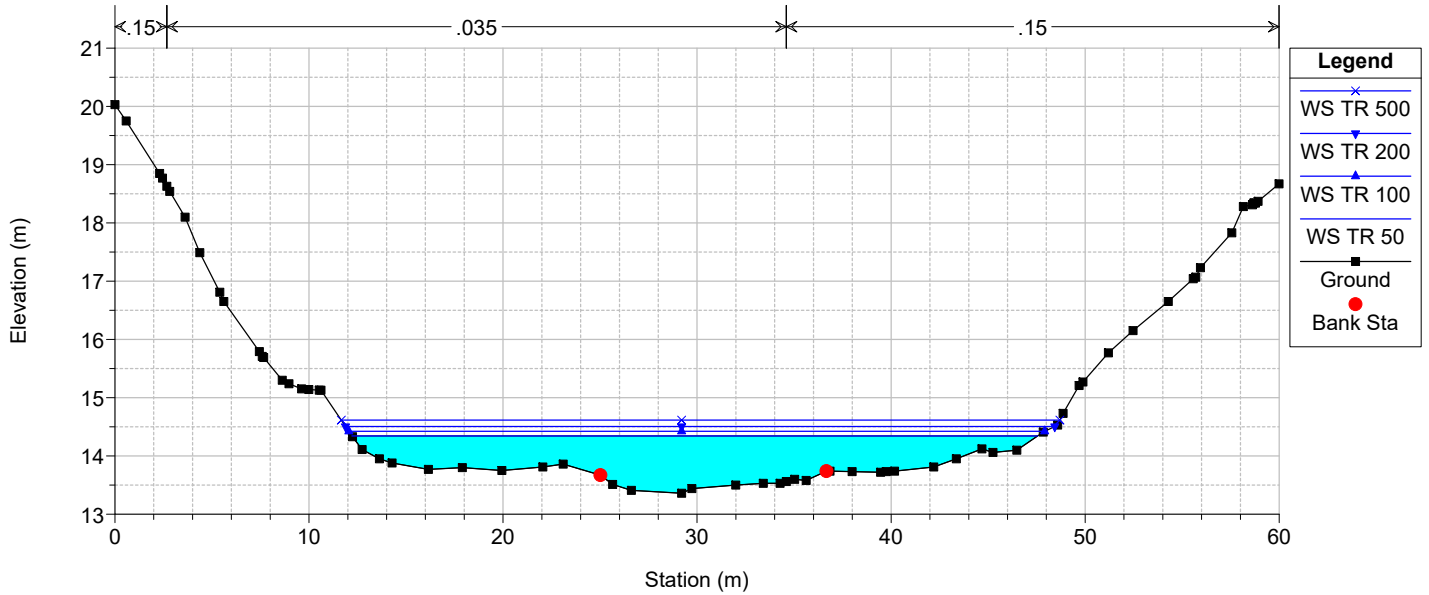
River = 81226 Reach = Monte RS = 960 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

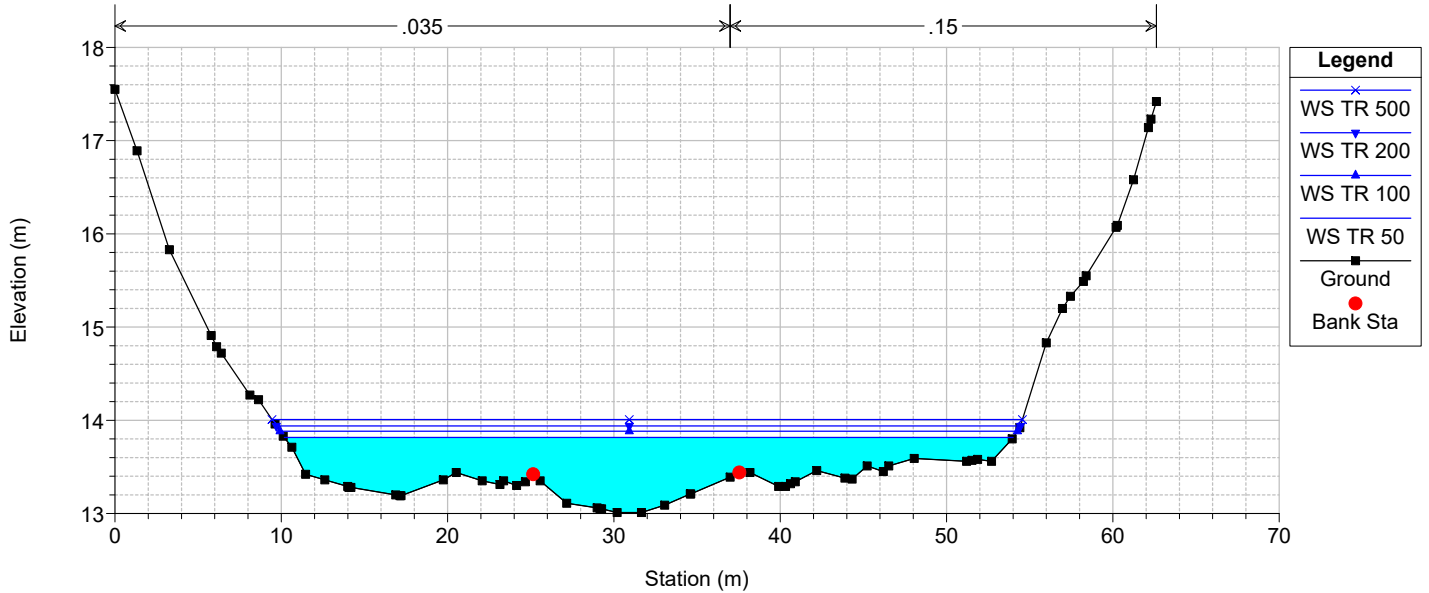
River = 81226 Reach = Monte RS = 930.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

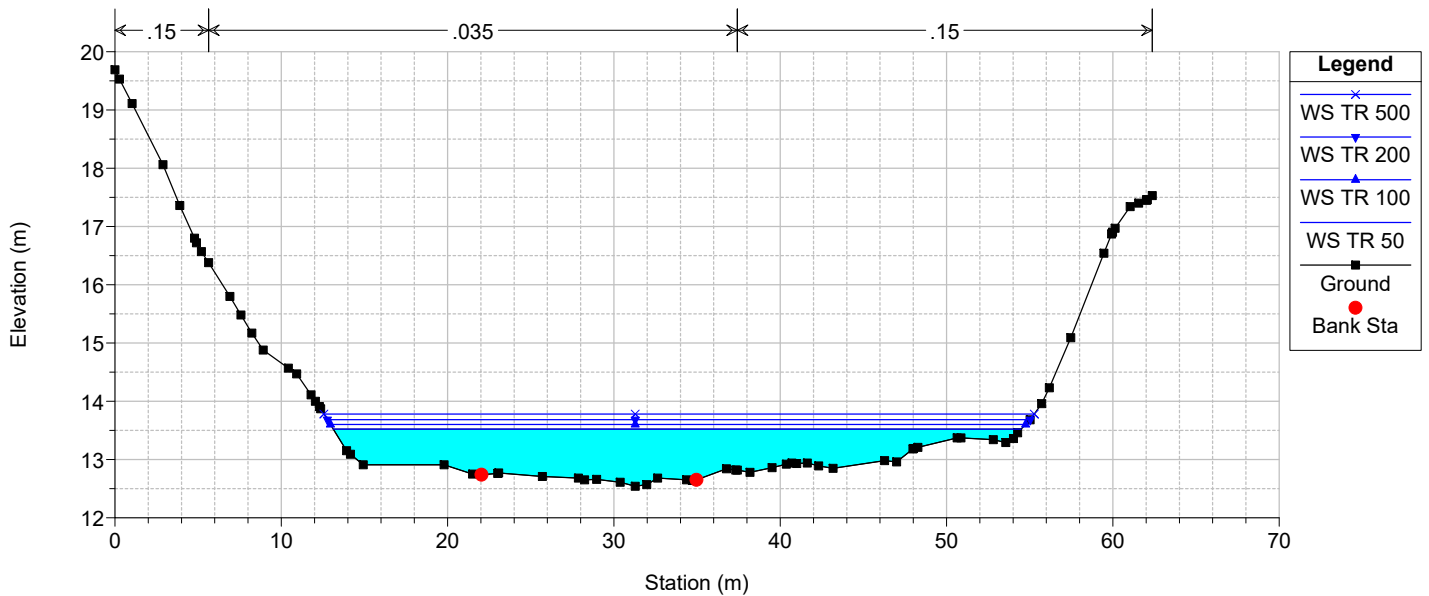
River = 81226 Reach = Monte RS = 900.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

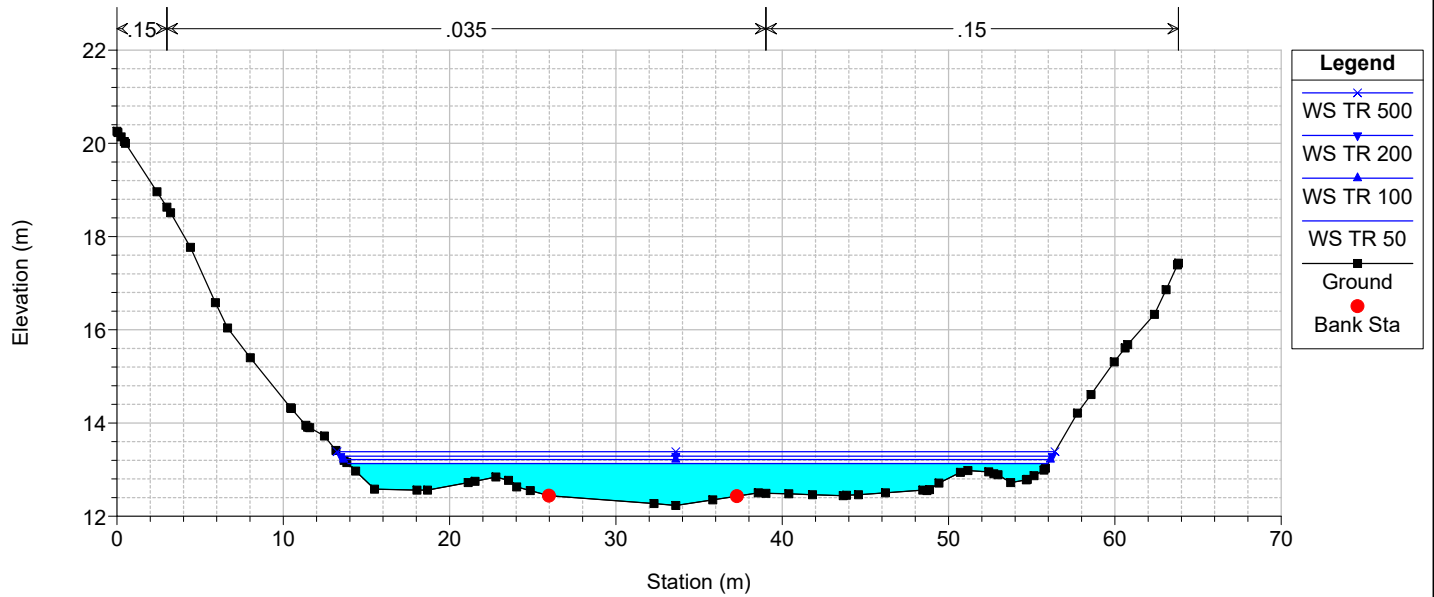
River = 81226 Reach = Monte RS = 870.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

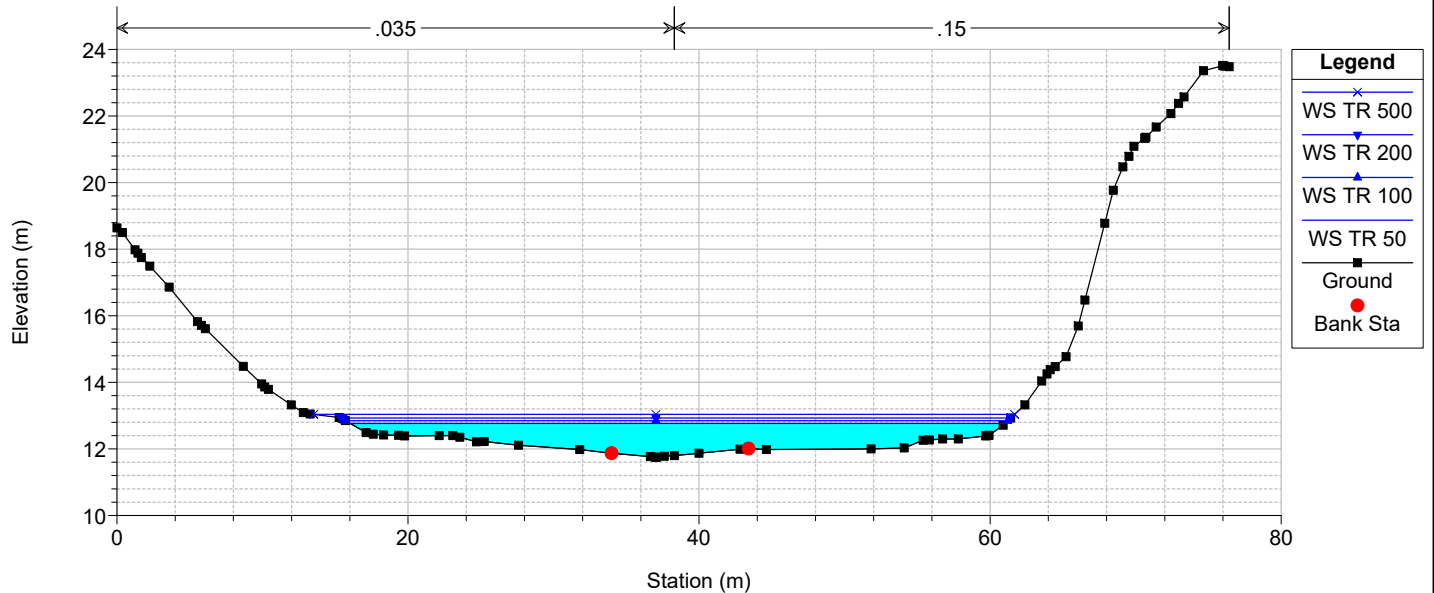
River = 81226 Reach = Monte RS = 840 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

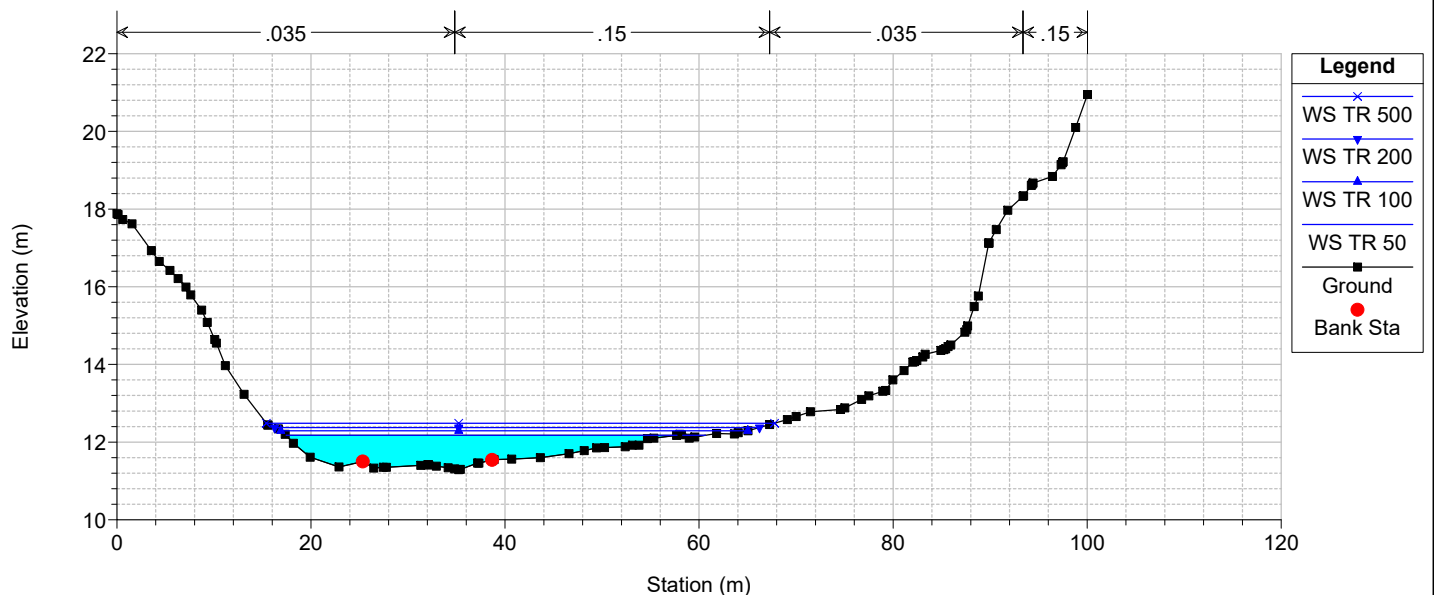
River = 81226 Reach = Monte RS = 809.6375 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

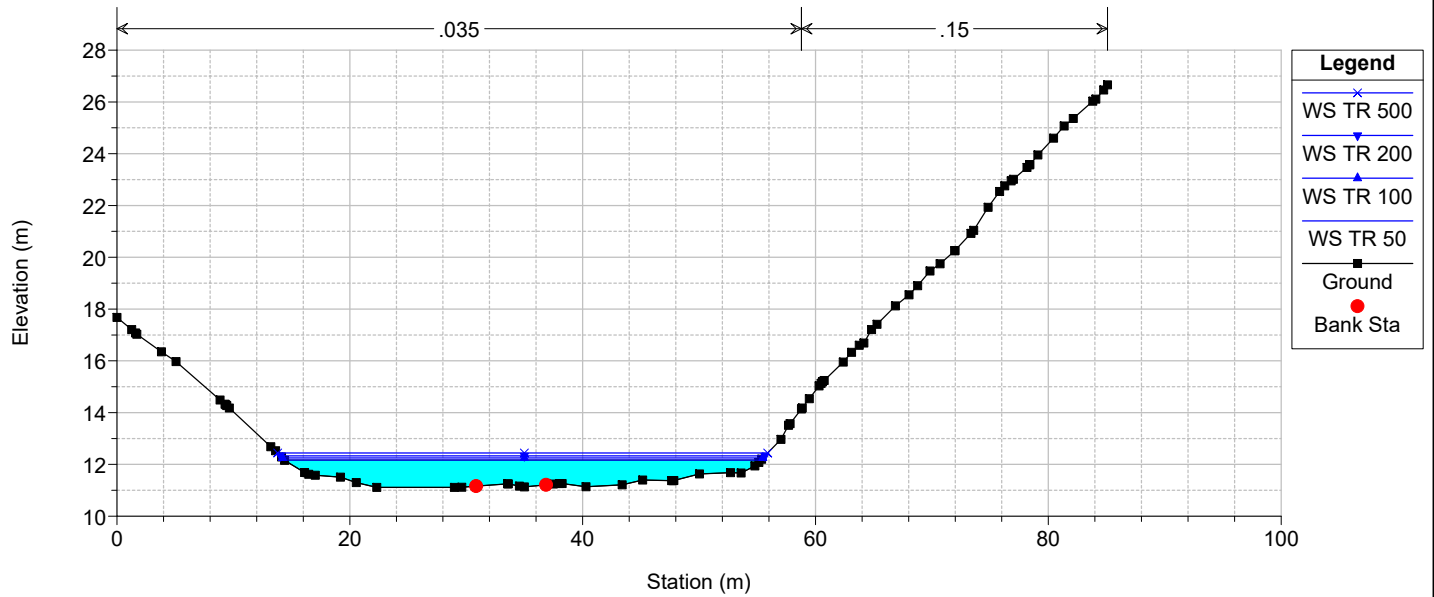
River = 81226 Reach = Monte RS = 780.6959 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

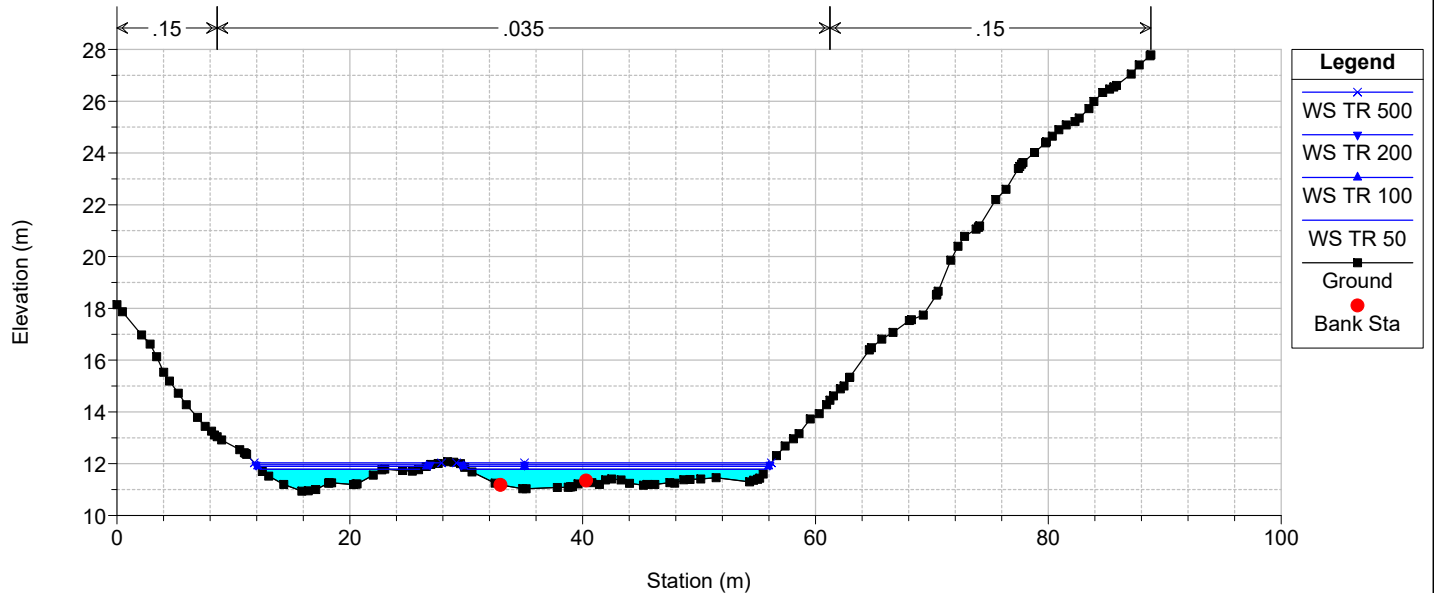
River = 81226 Reach = Monte RS = 750 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

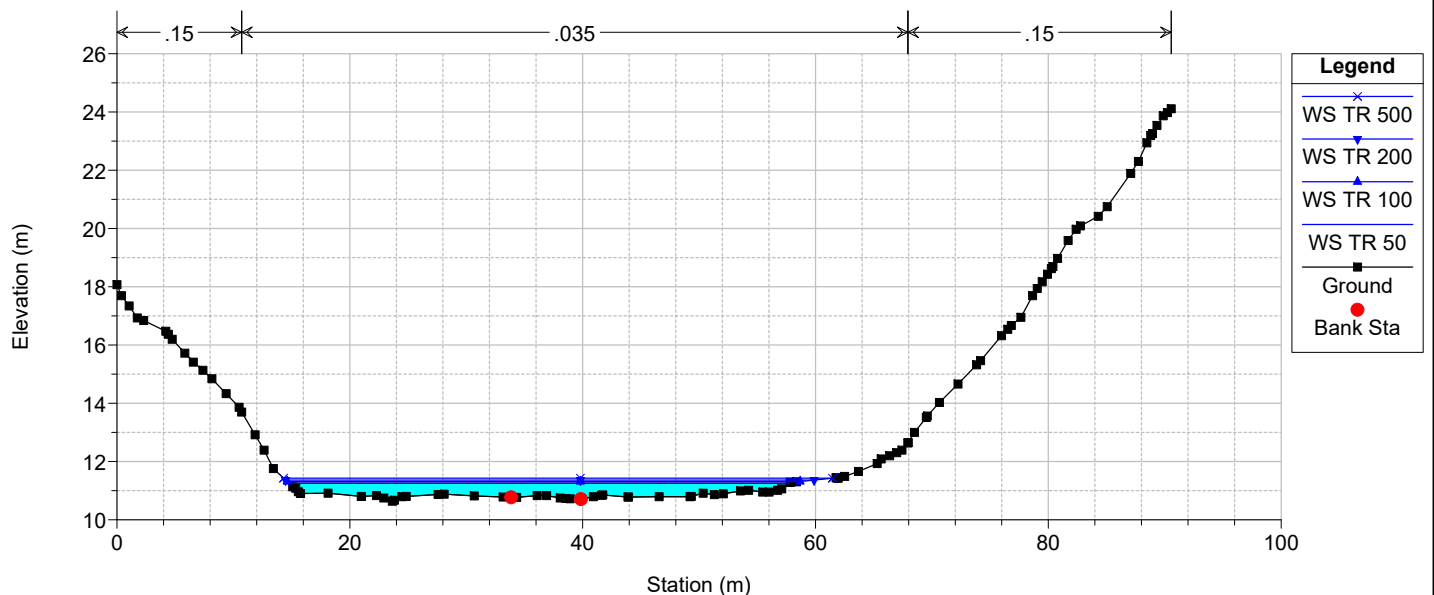
River = 81226 Reach = Monte RS = 720 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

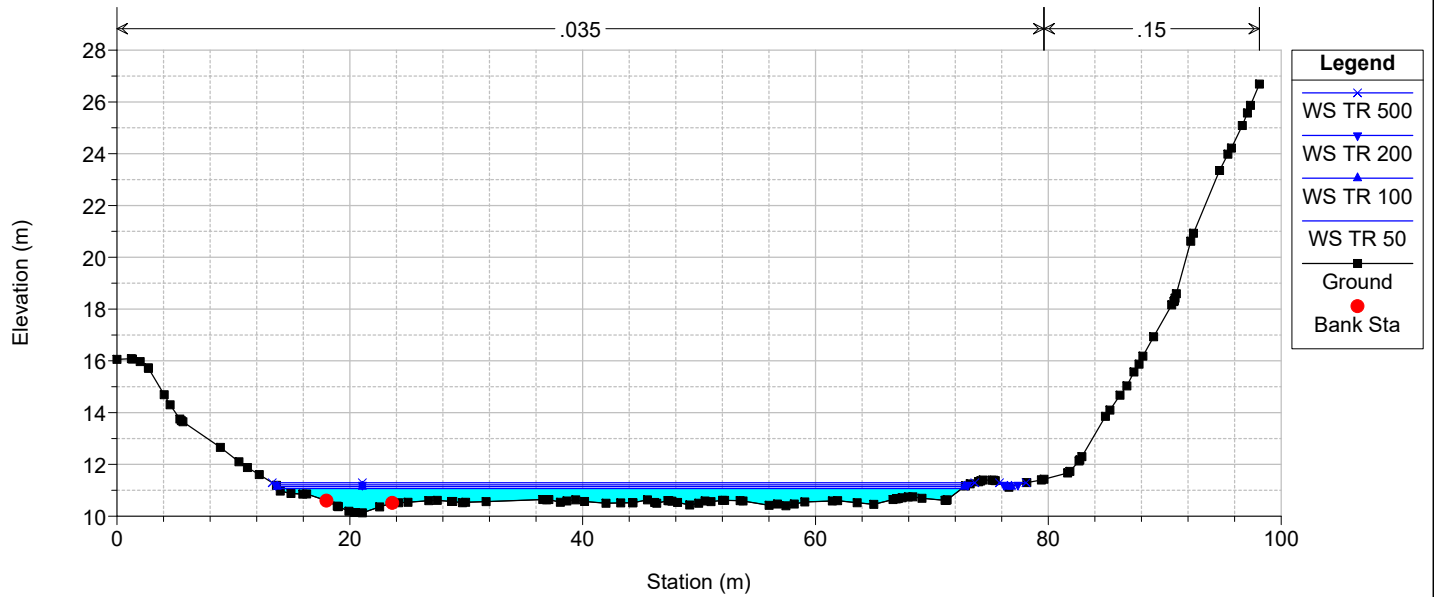
River = 81226 Reach = Monte RS = 689.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

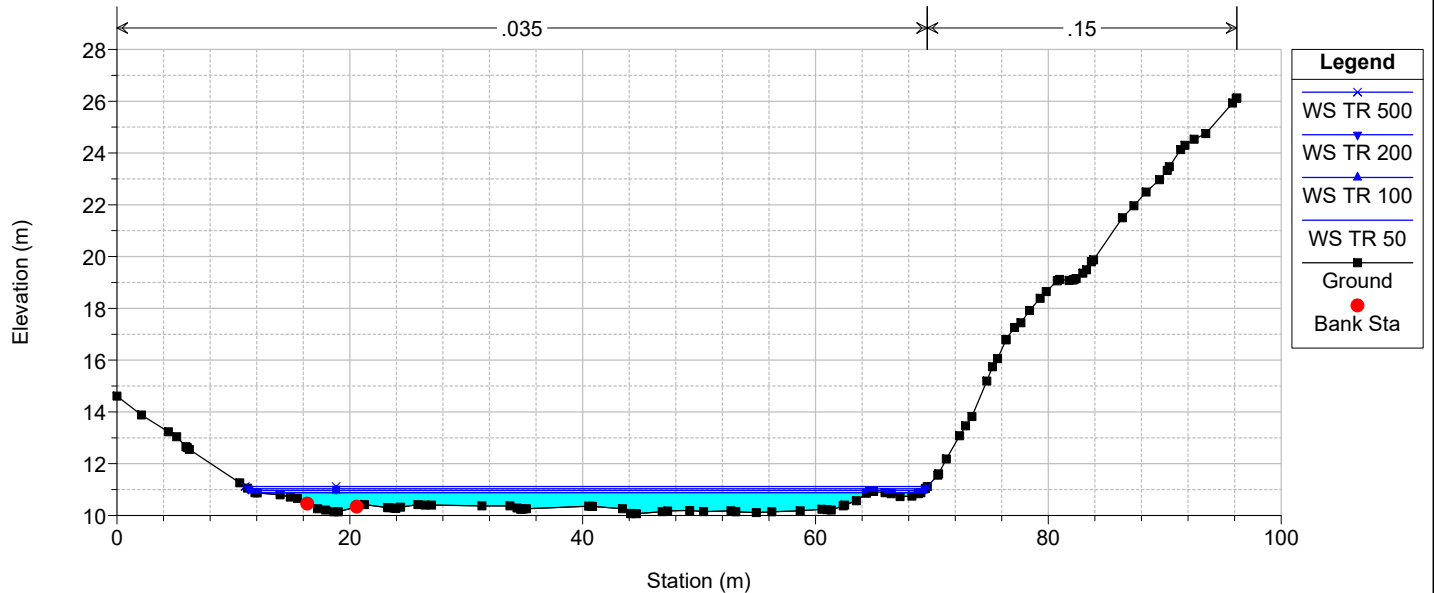
River = 81226 Reach = Monte RS = 660 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

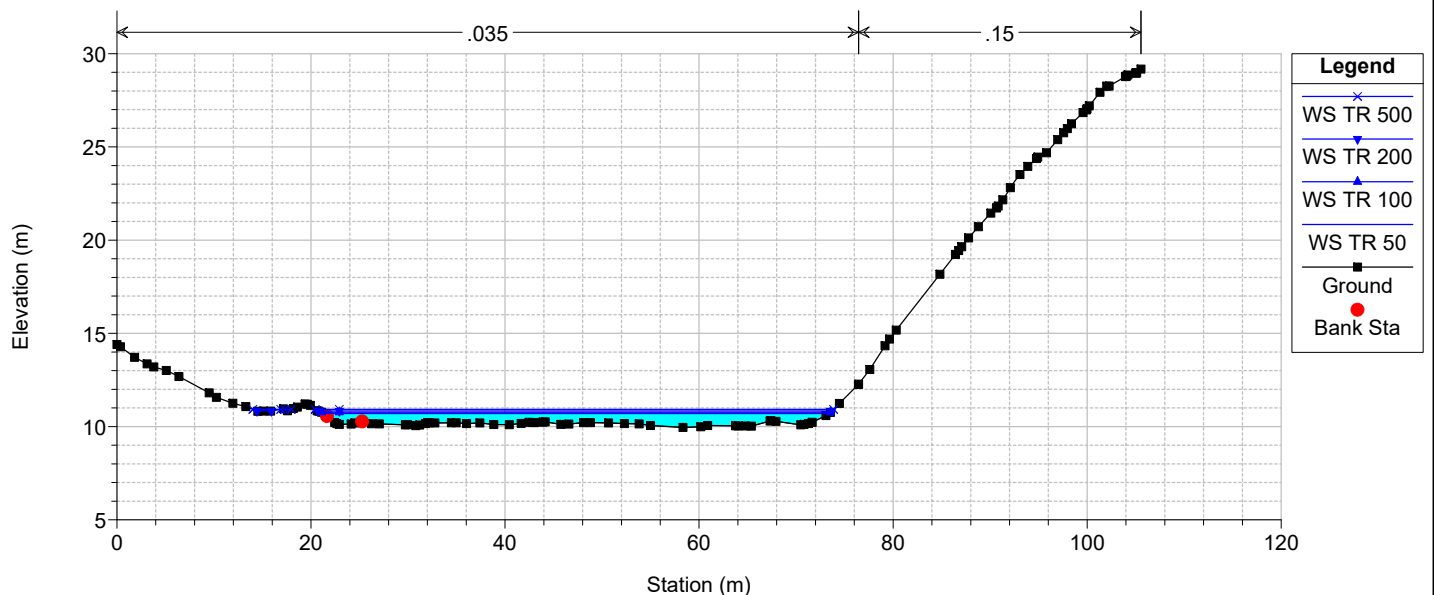
River = 81226 Reach = Monte RS = 630.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

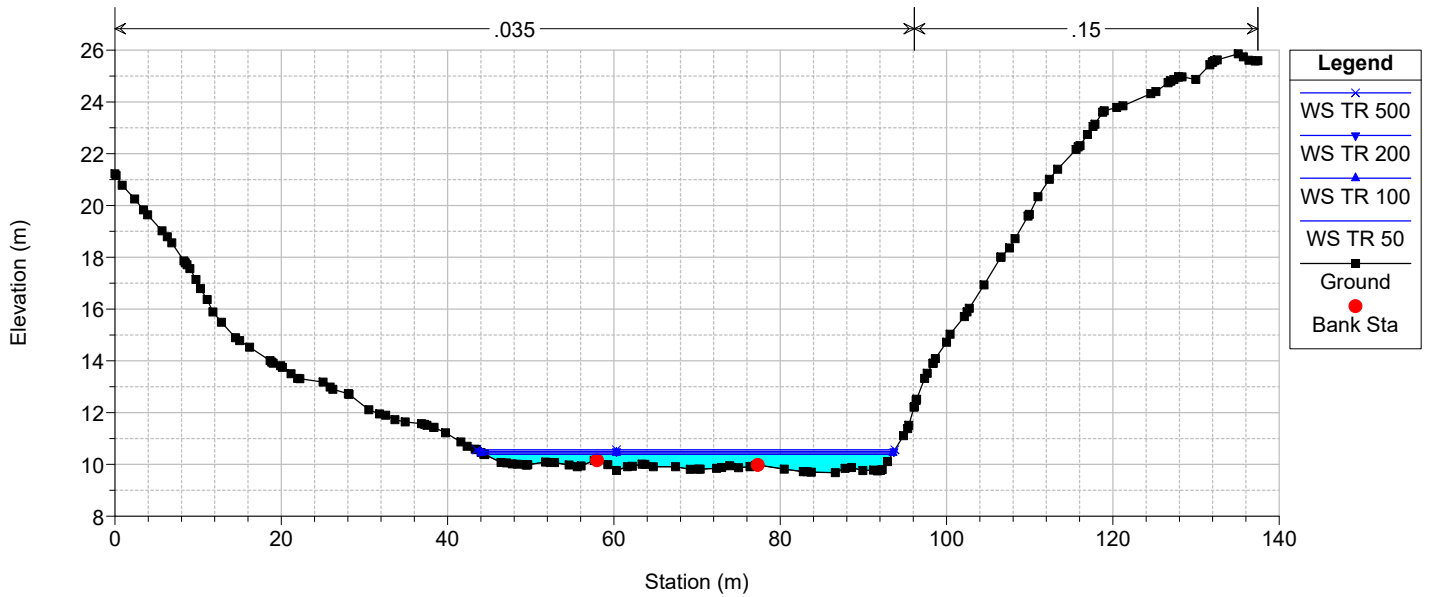
River = 81226 Reach = Monte RS = 600.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

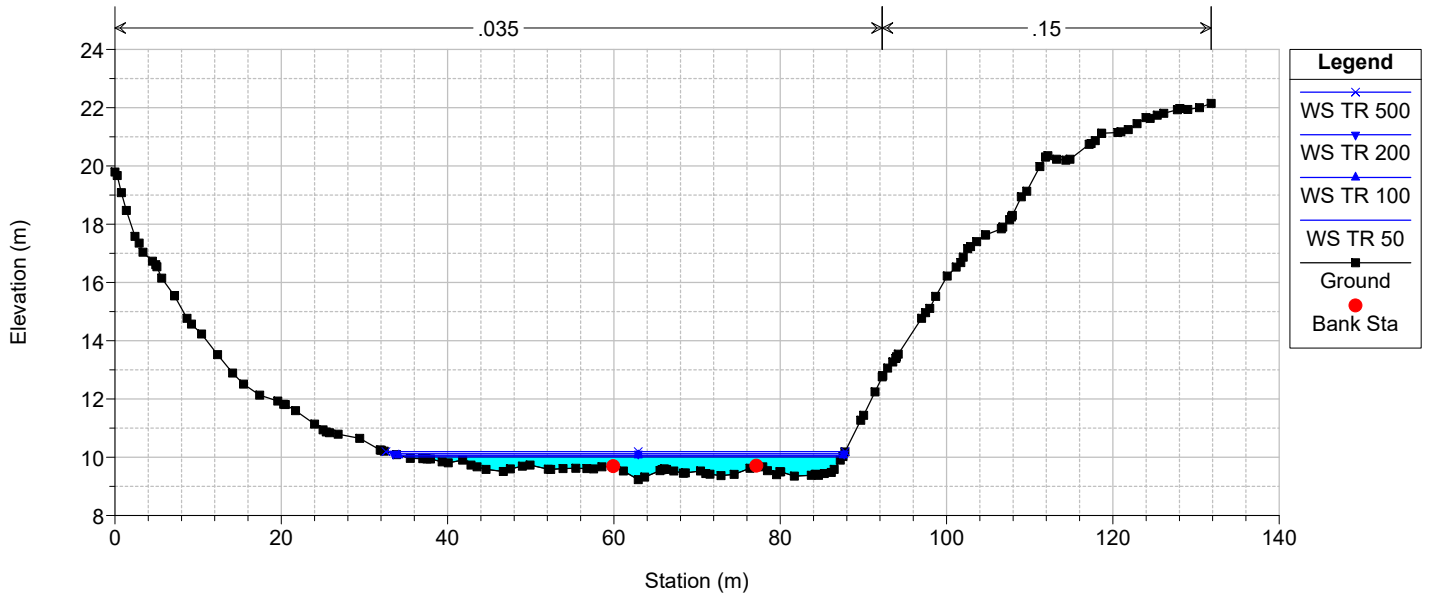
River = 81226 Reach = Monte RS = 570 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

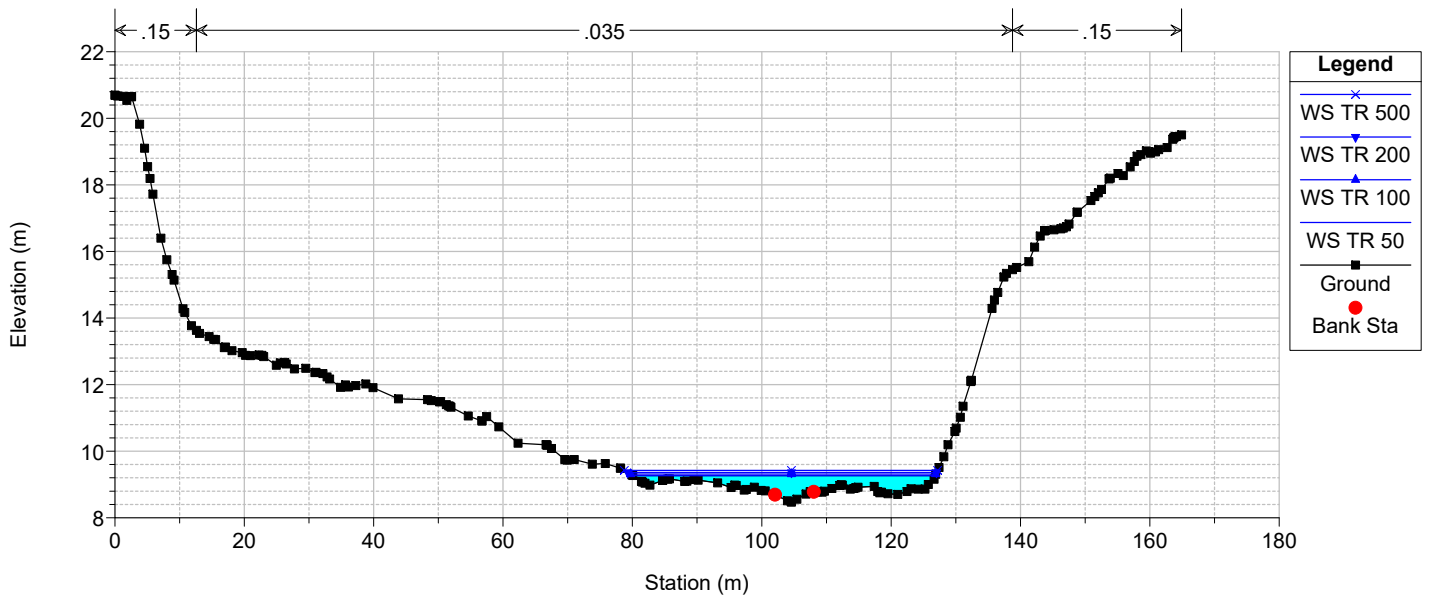
River = 81226 Reach = Monte RS = 540.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

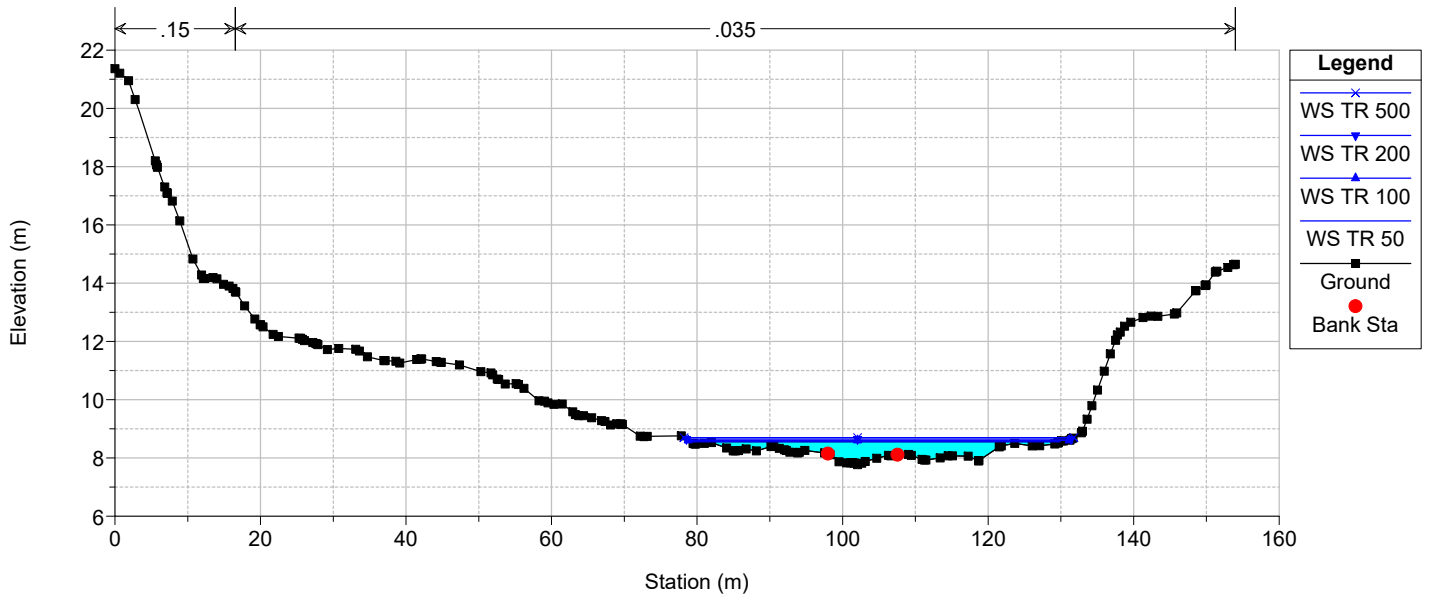
River = 81226 Reach = Monte RS = 510 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

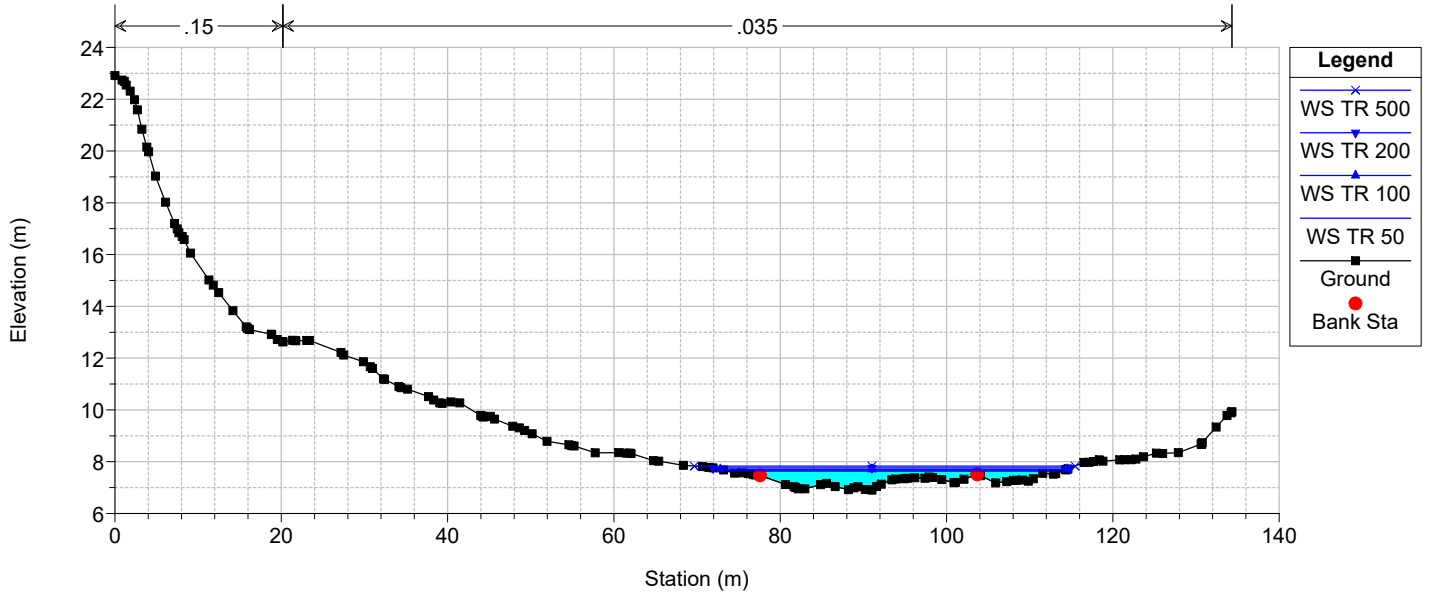
River = 81226 Reach = Monte RS = 480 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

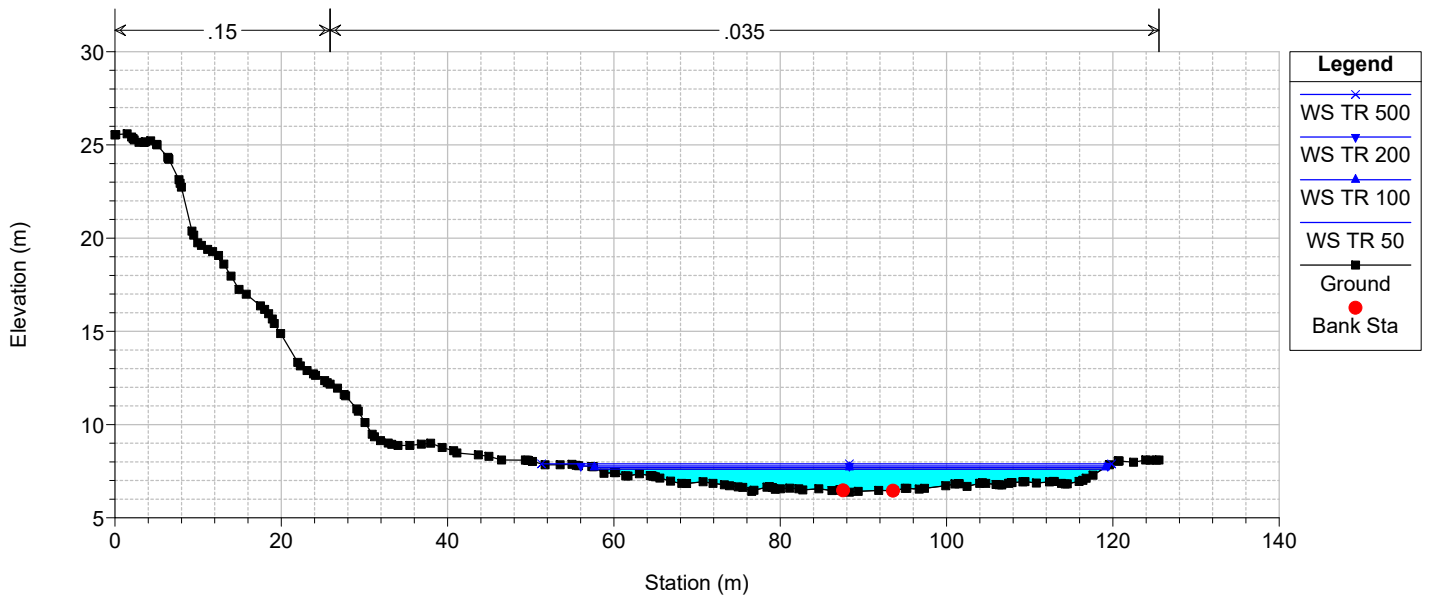
River = 81226 Reach = Monte RS = 450 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

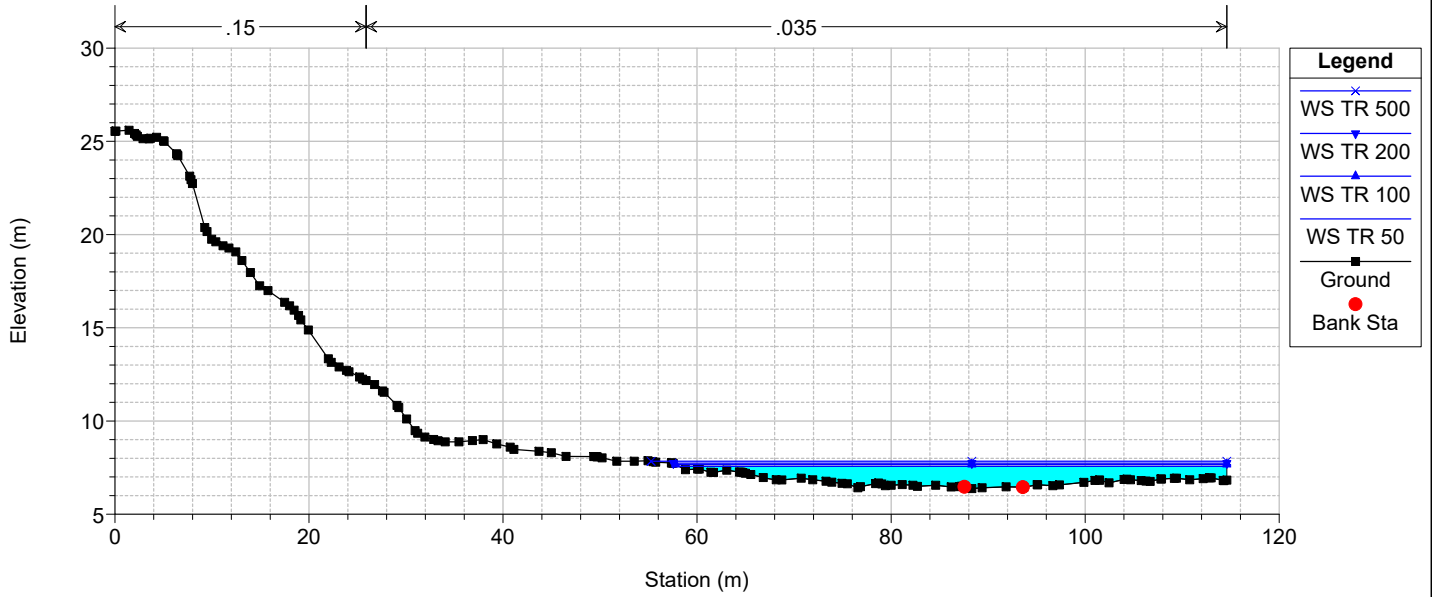
River = 81226 Reach = Monte RS = 421.5036 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

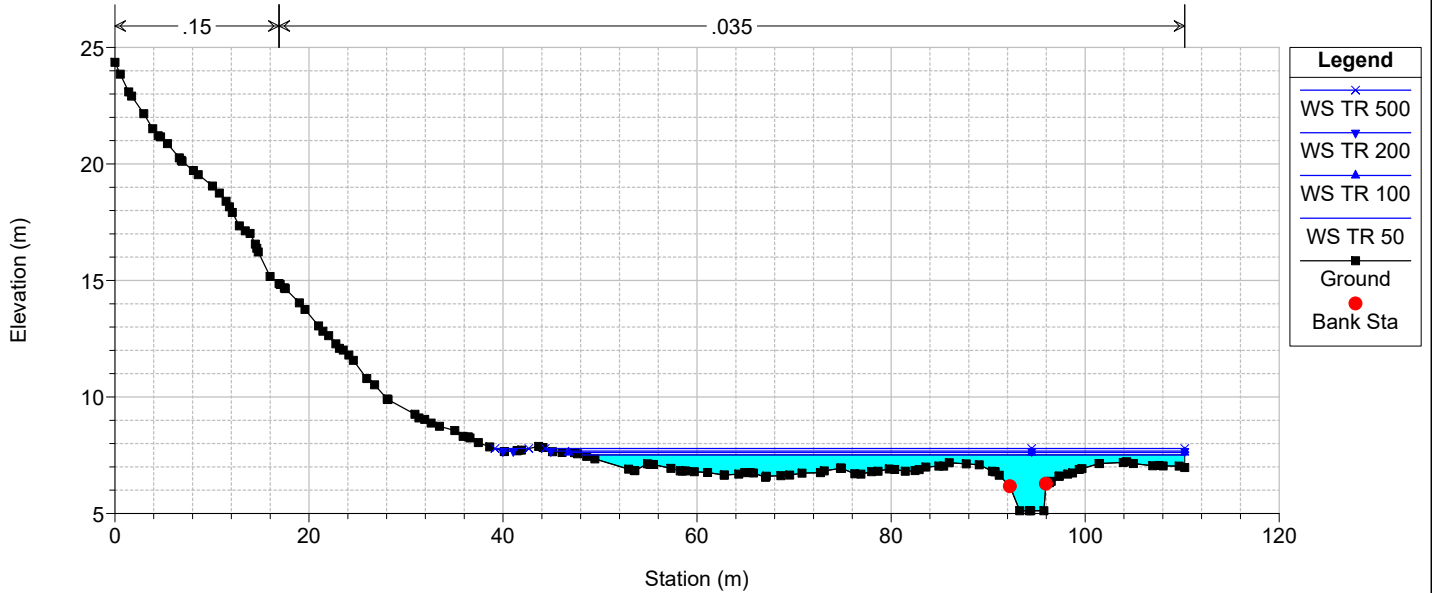
River = 81226 Reach = Monte RS = 421.4806 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

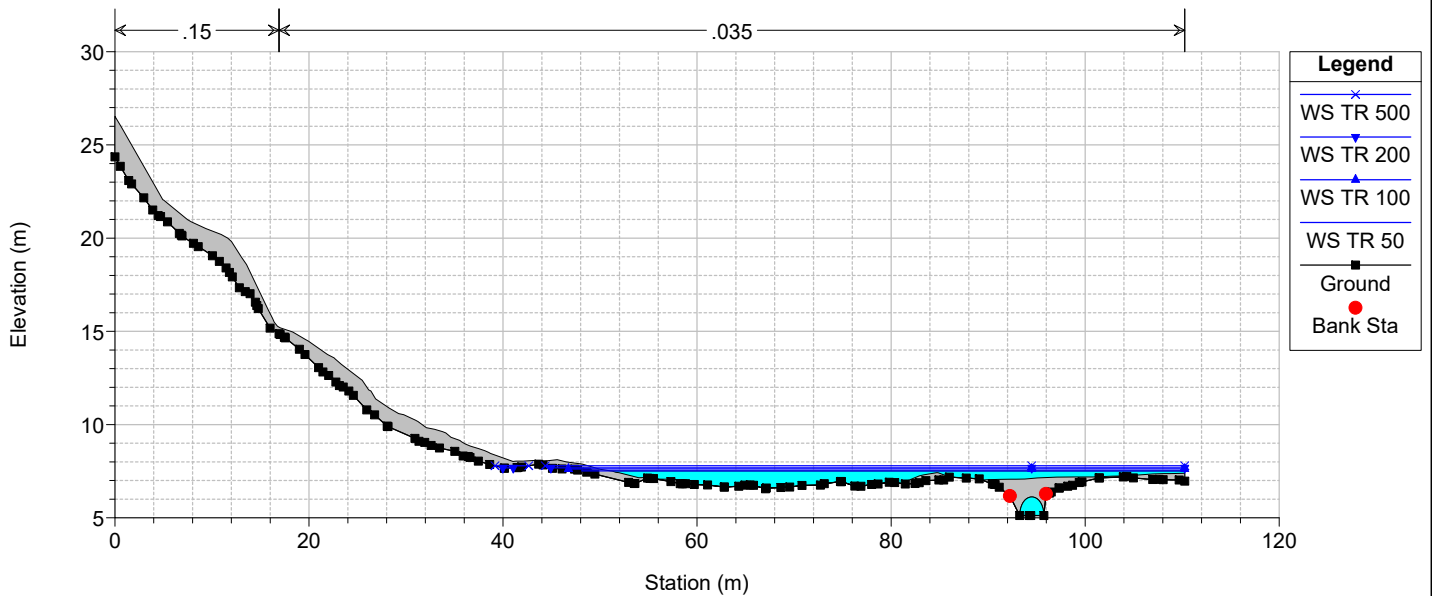
River = 81226 Reach = Monte RS = 398.3554 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

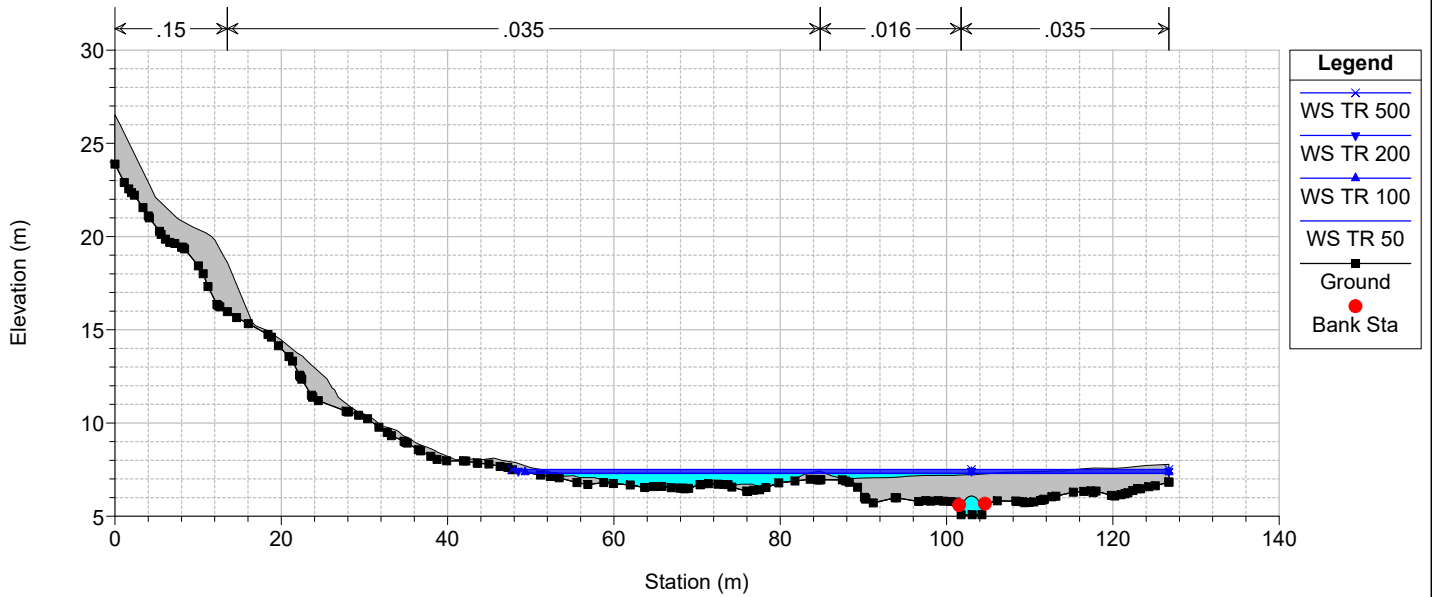
River = 81226 Reach = Monte RS = 387.0663 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

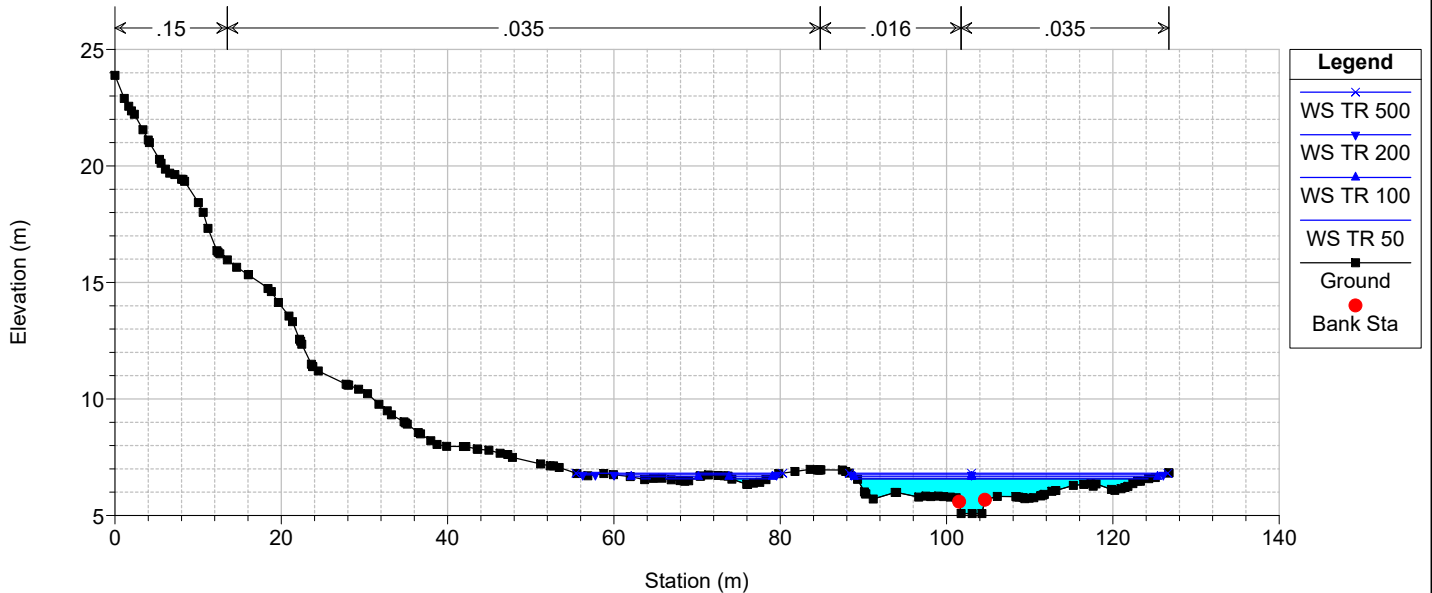
River = 81226 Reach = Monte RS = 387.0663 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

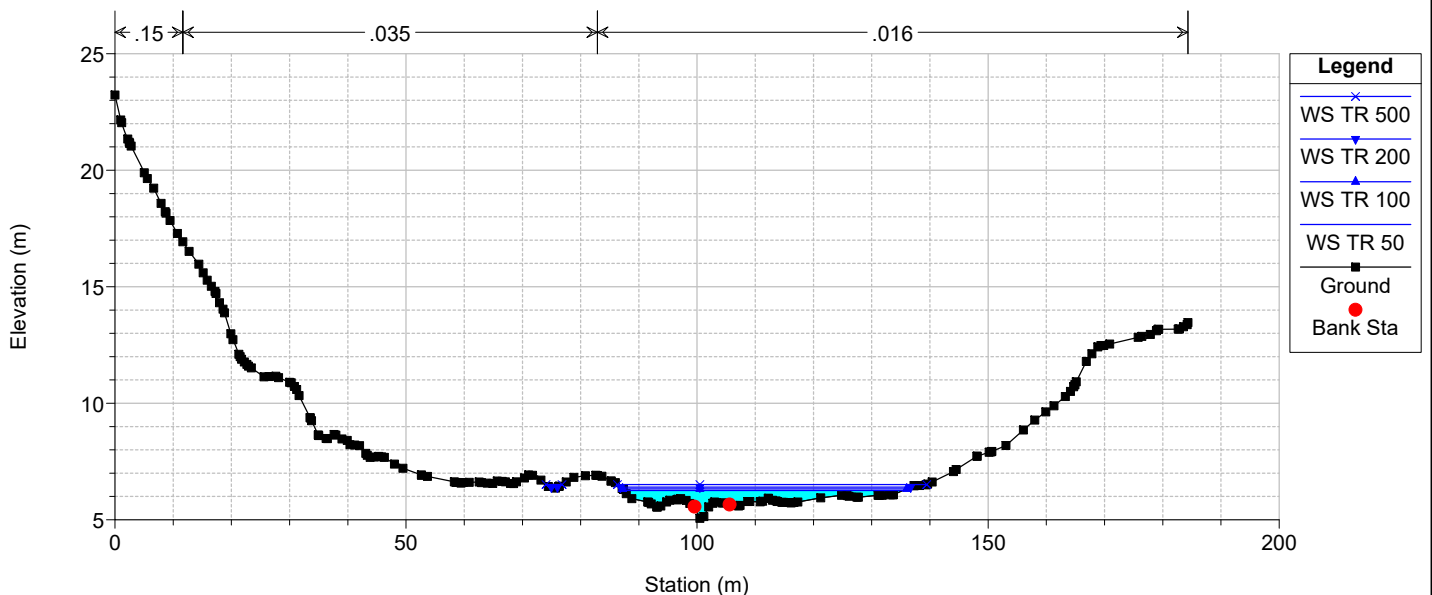
River = 81226 Reach = Monte RS = 377.061 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

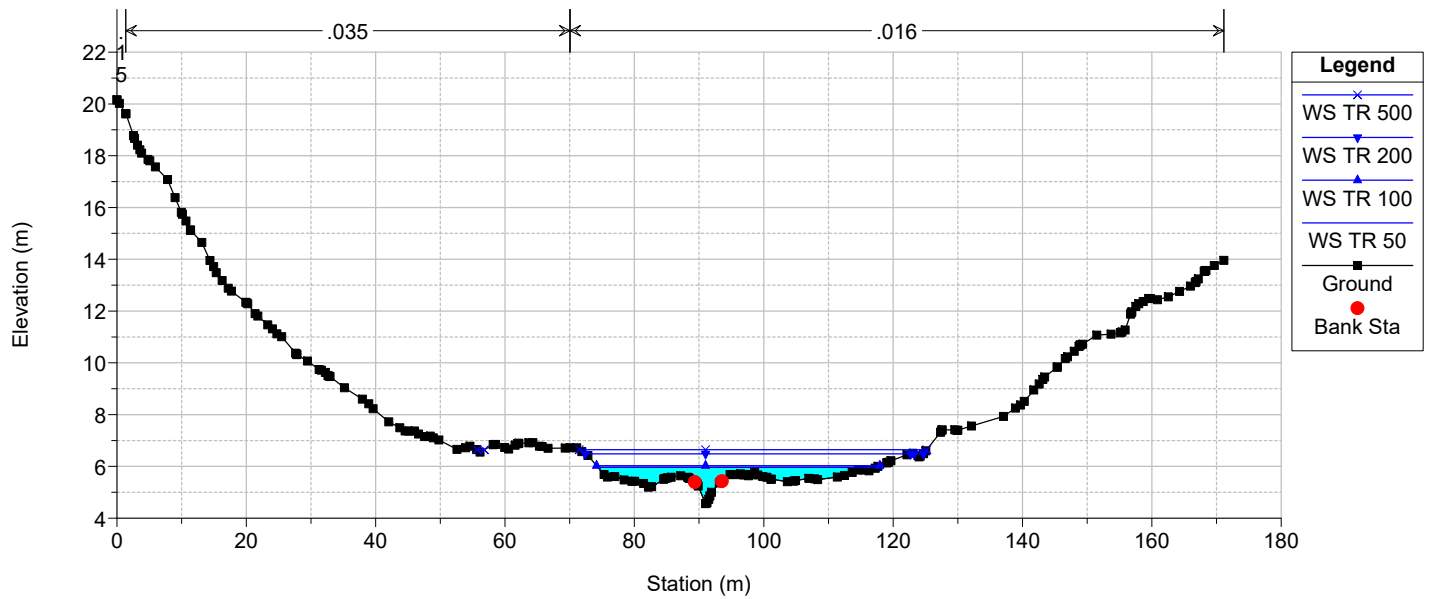
River = 81226 Reach = Valle RS = 357.5708 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

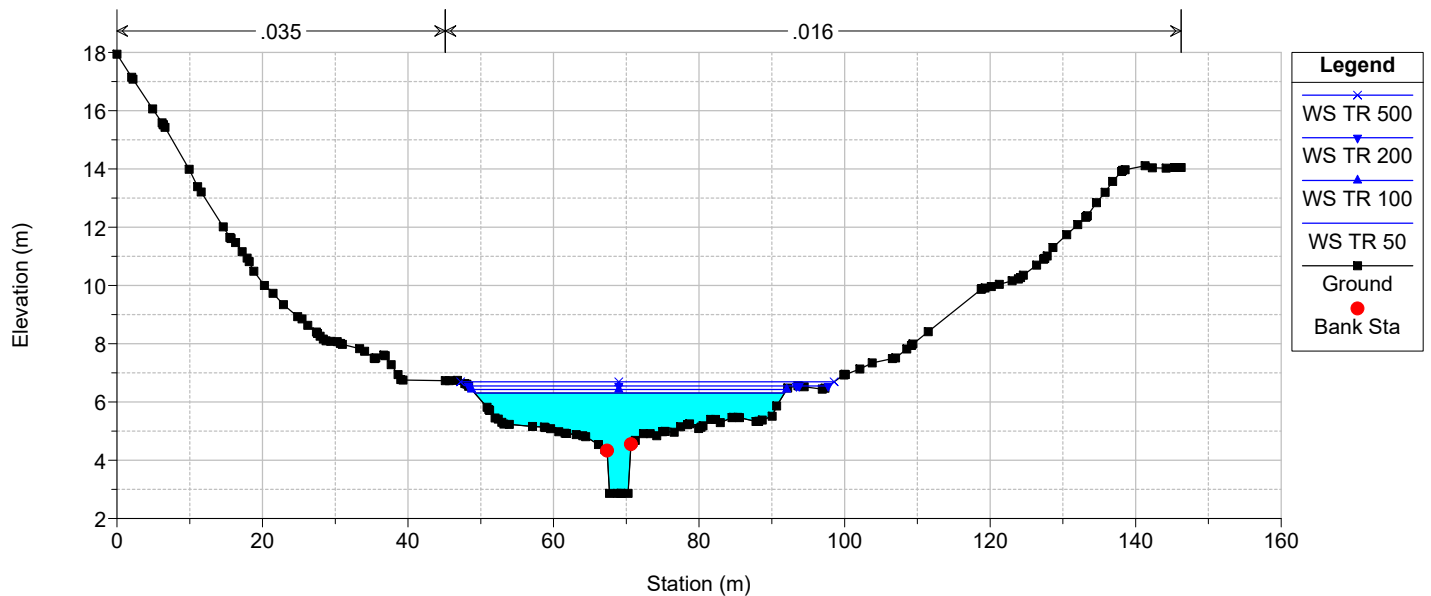
River = 81226 Reach = Valle RS = 330 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

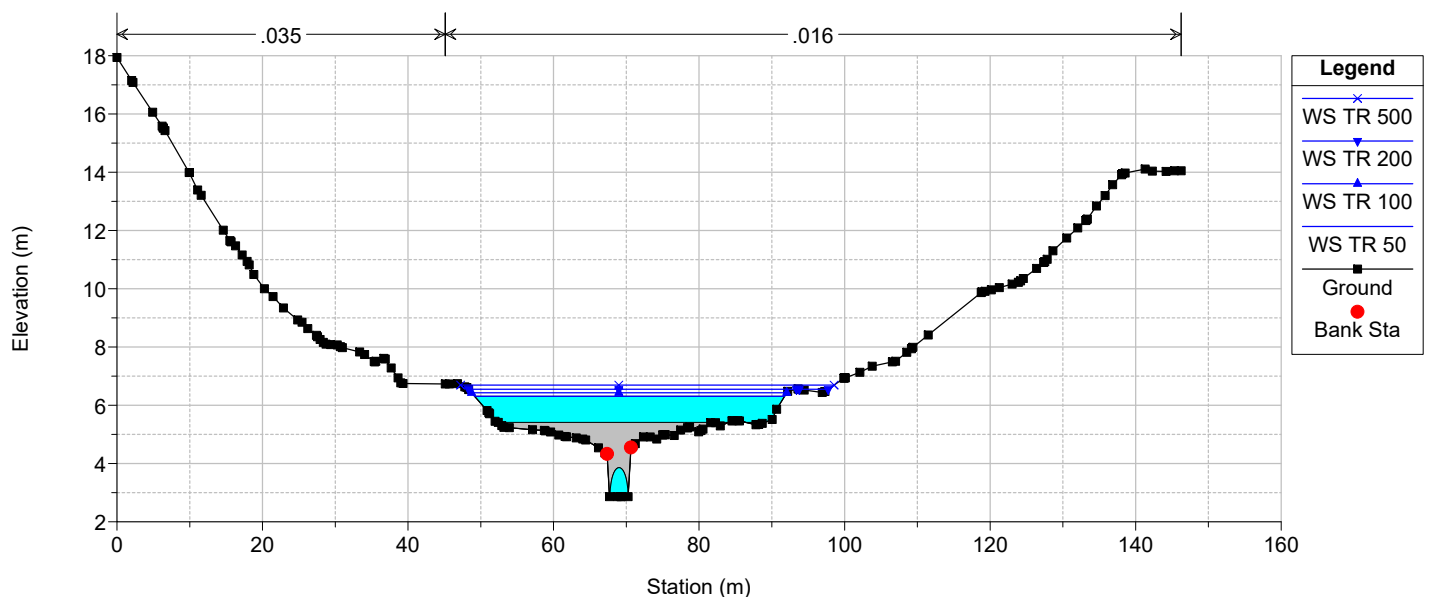
River = 81226 Reach = Valle RS = 299.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

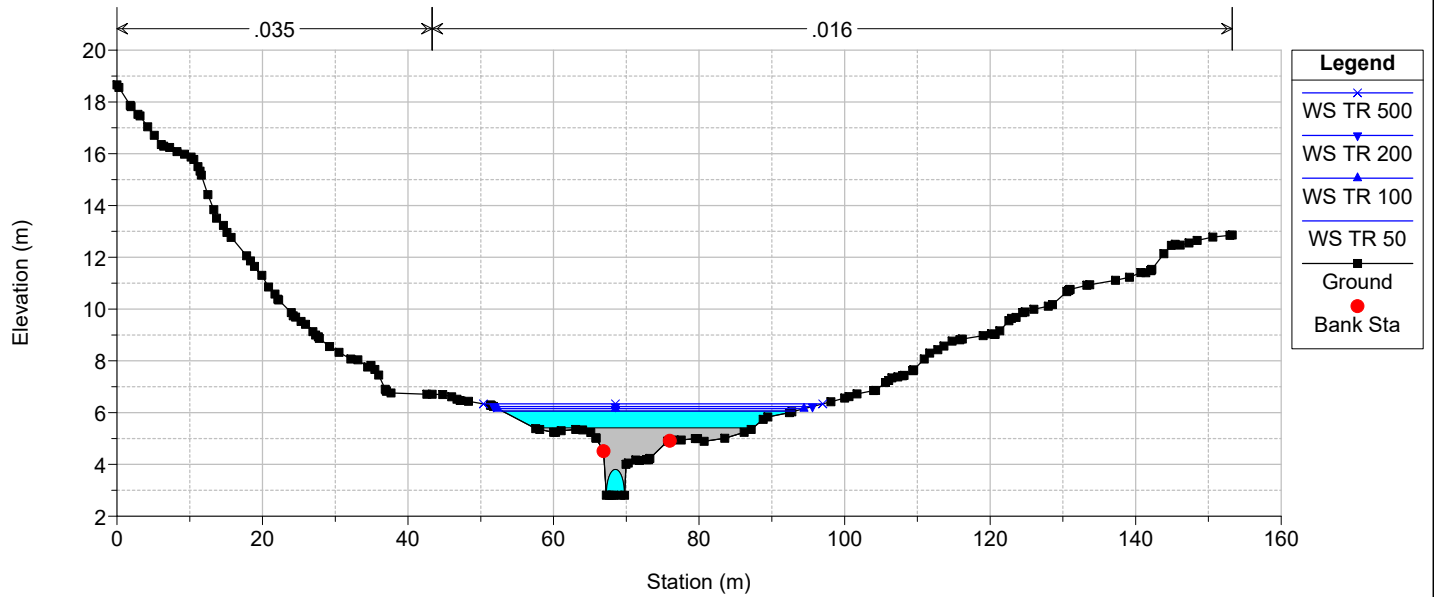
River = 81226 Reach = Valle RS = 283.727 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

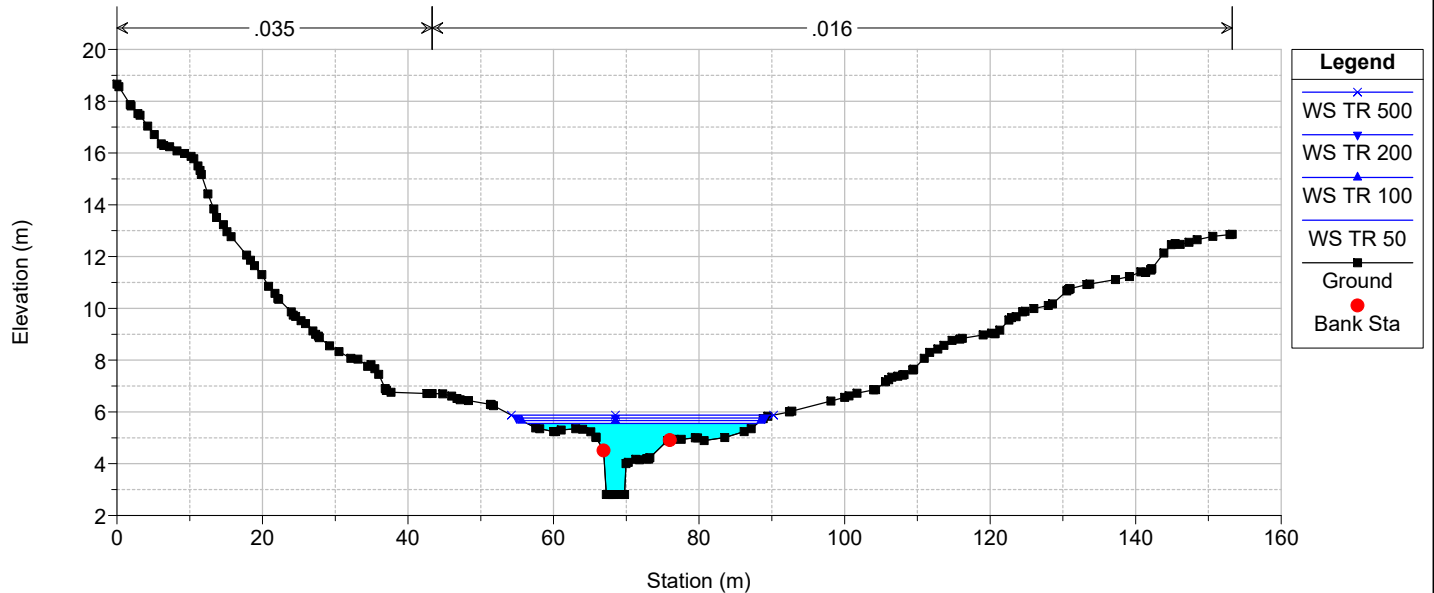
River = 81226 Reach = Valle RS = 283.727 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

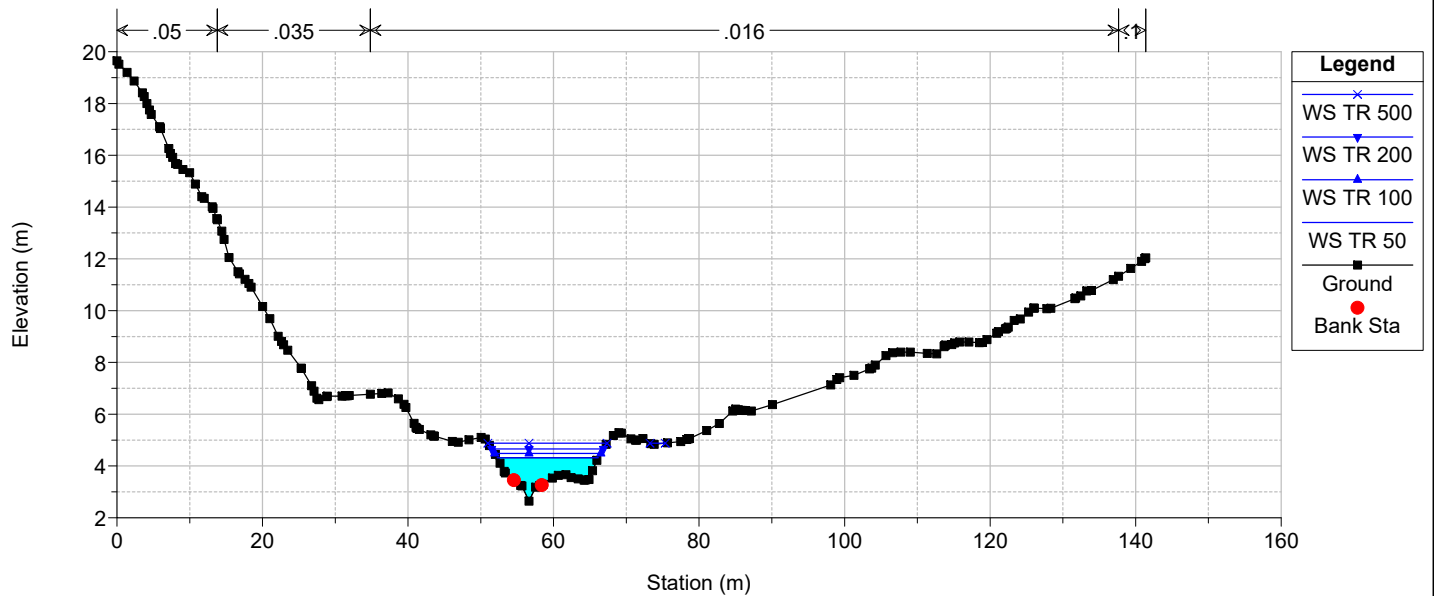
River = 81226 Reach = Valle RS = 267.2863 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

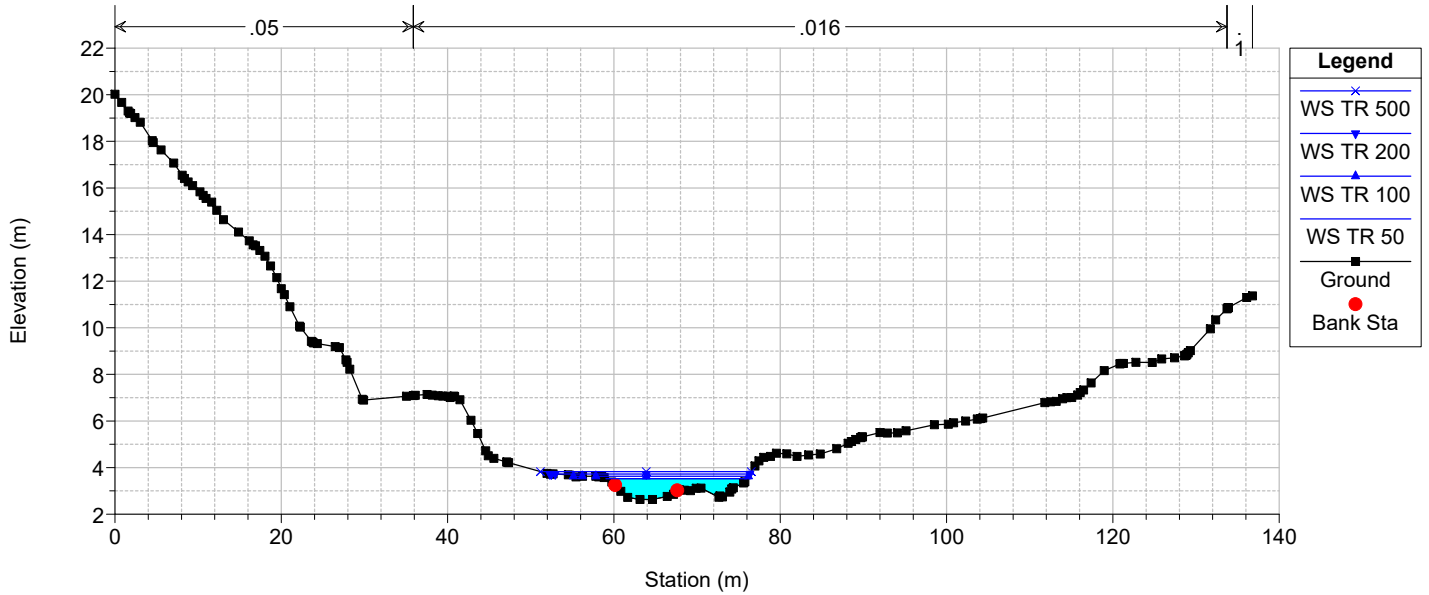
River = 81226 Reach = Valle RS = 240 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

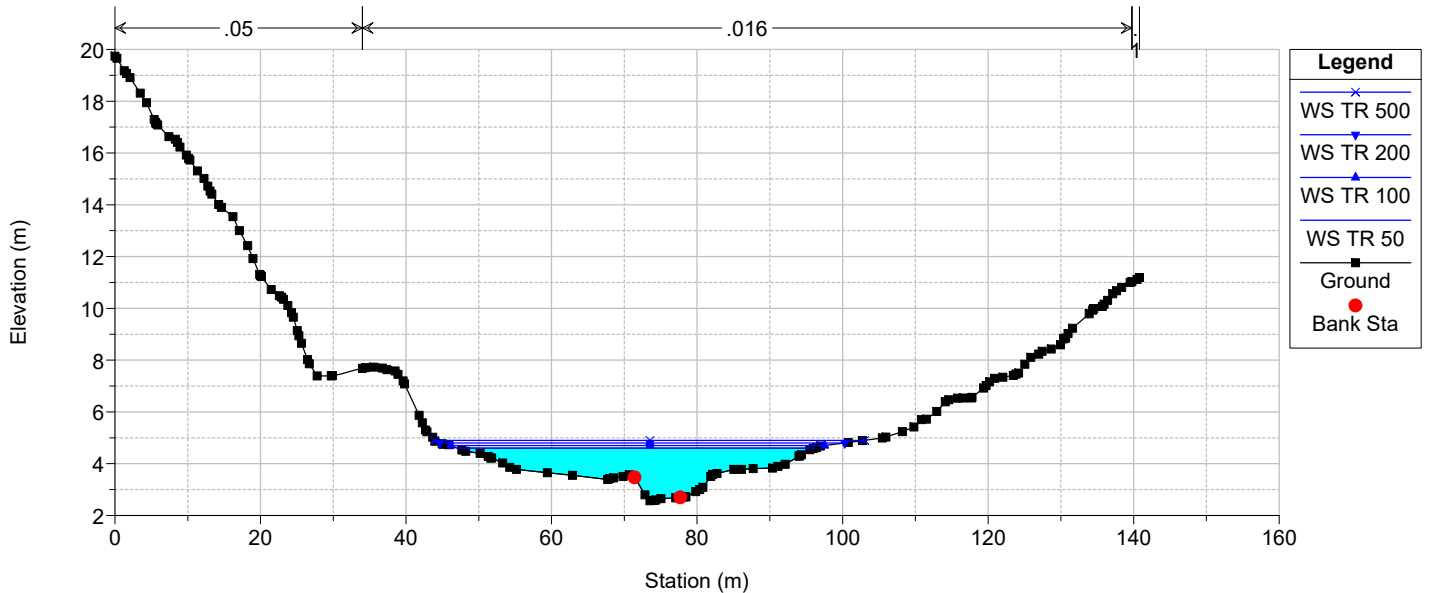
River = 81226 Reach = Valle RS = 210 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

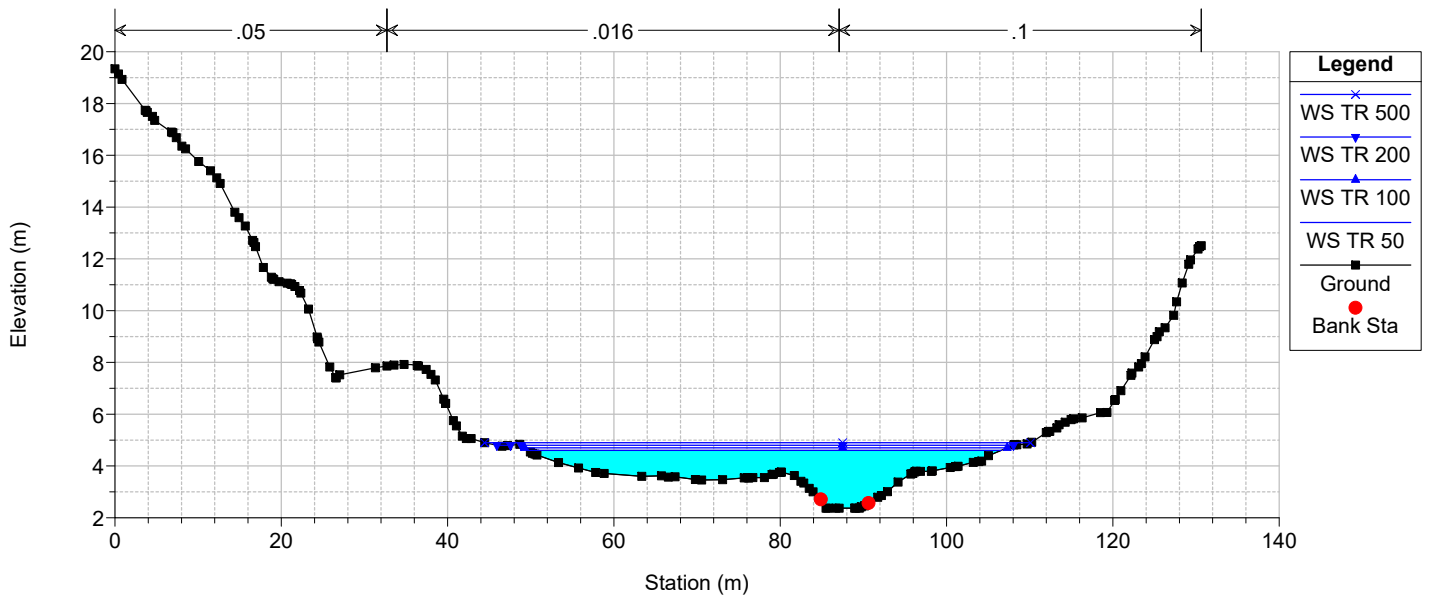
River = 81226 Reach = Valle RS = 187.8894 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

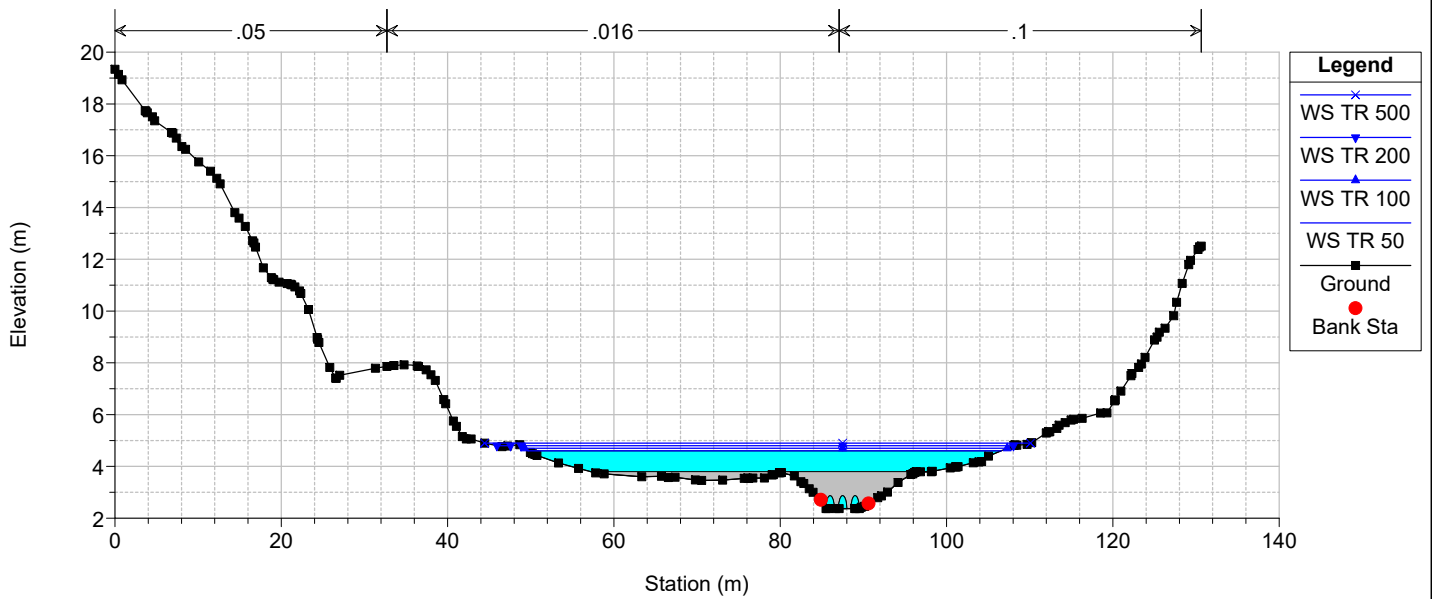
River = 81226 Reach = Valle RS = 163.5657 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

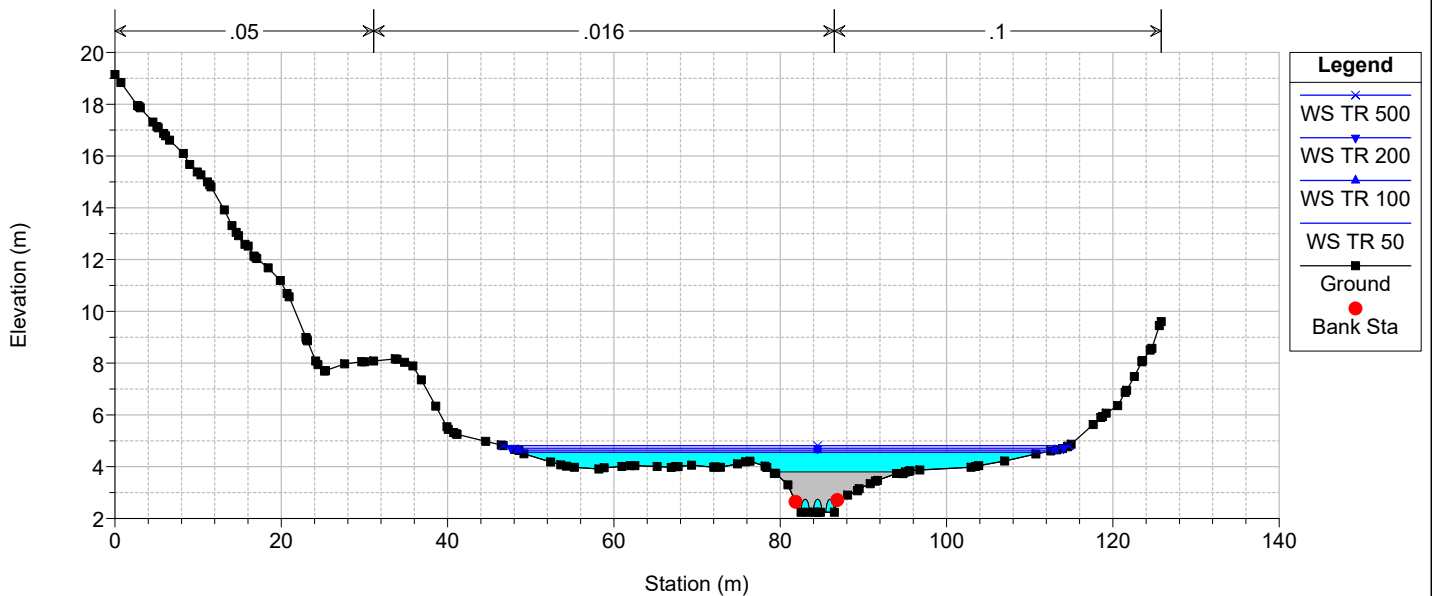
River = 81226 Reach = Valle RS = 158.9122 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

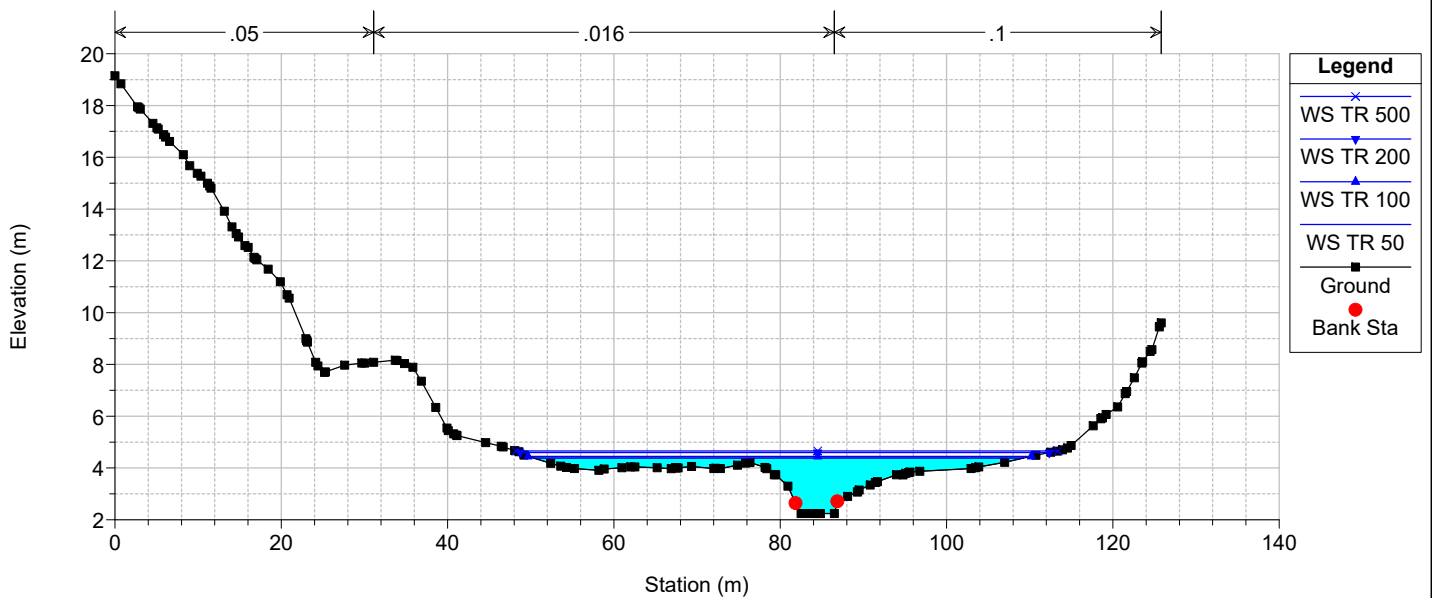
River = 81226 Reach = Valle RS = 158.9122 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

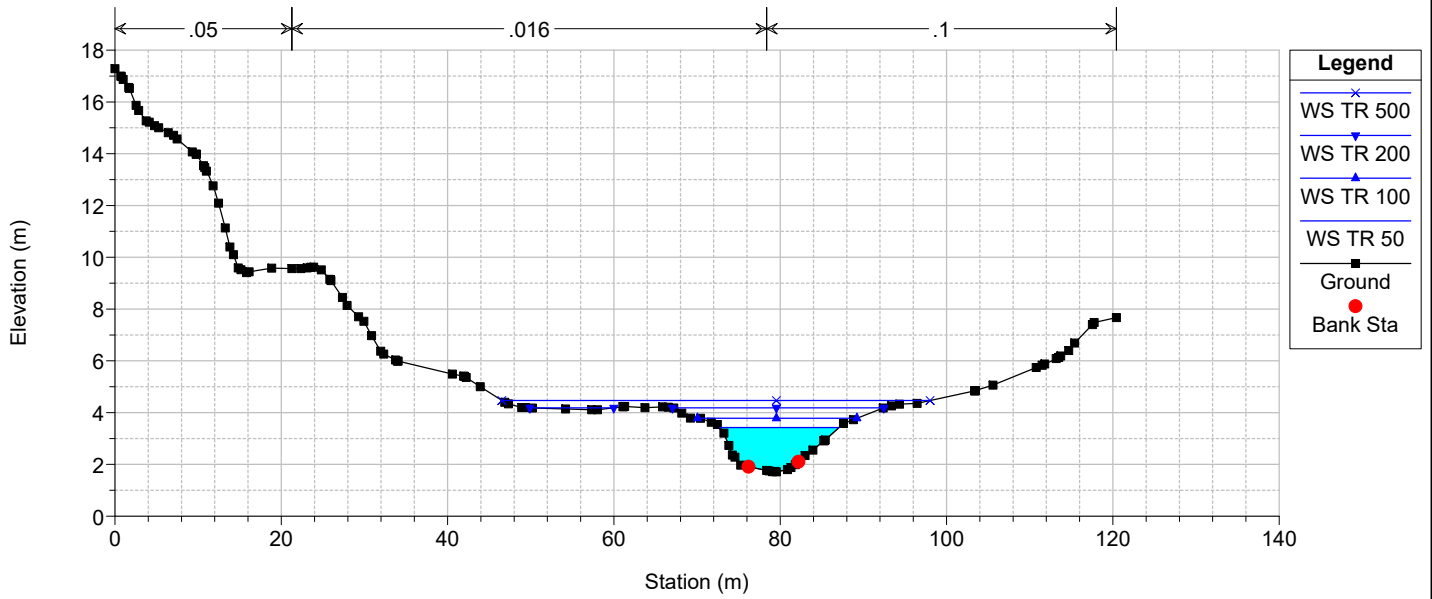
River = 81226 Reach = Valle RS = 152.5728 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

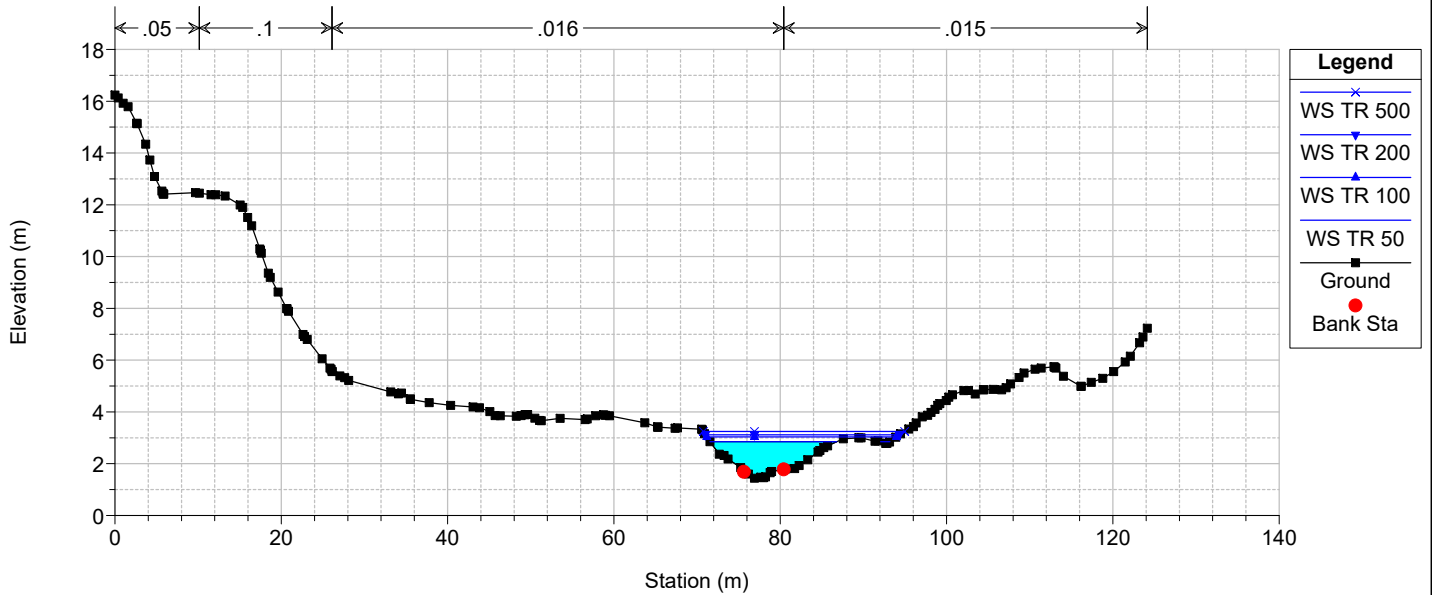
River = 81226 Reach = Valle RS = 119.9318 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

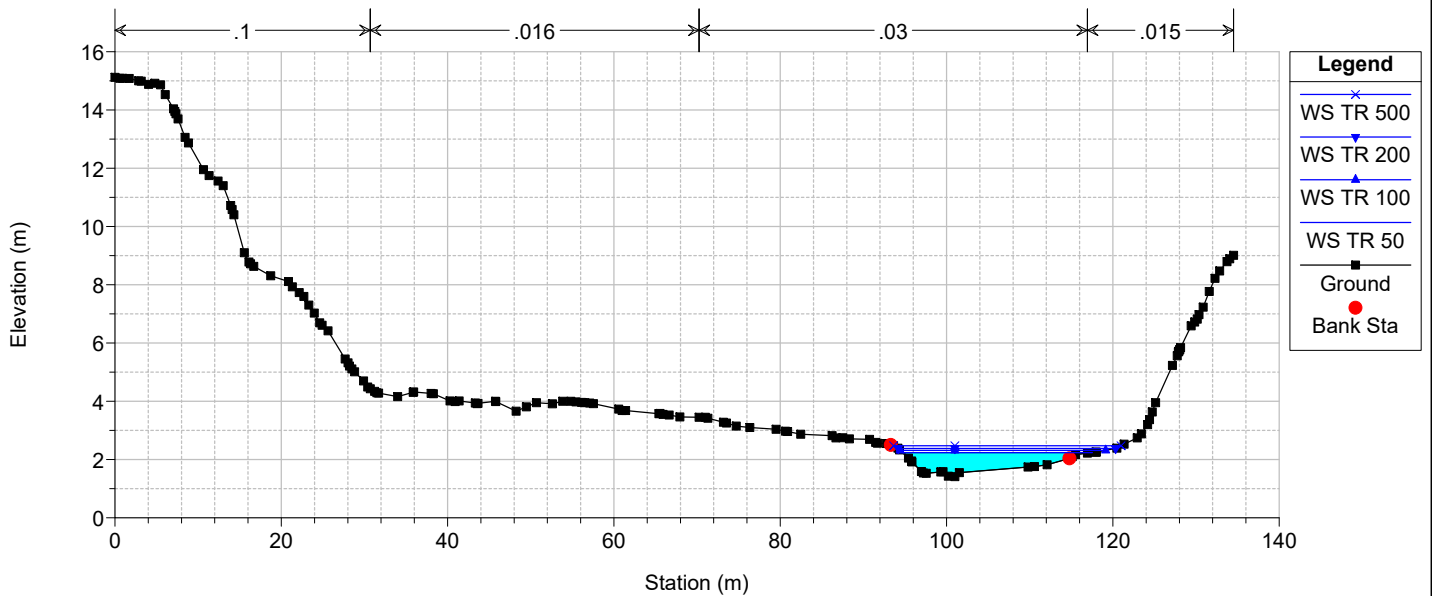
River = 81226 Reach = Valle RS = 90.02309 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI

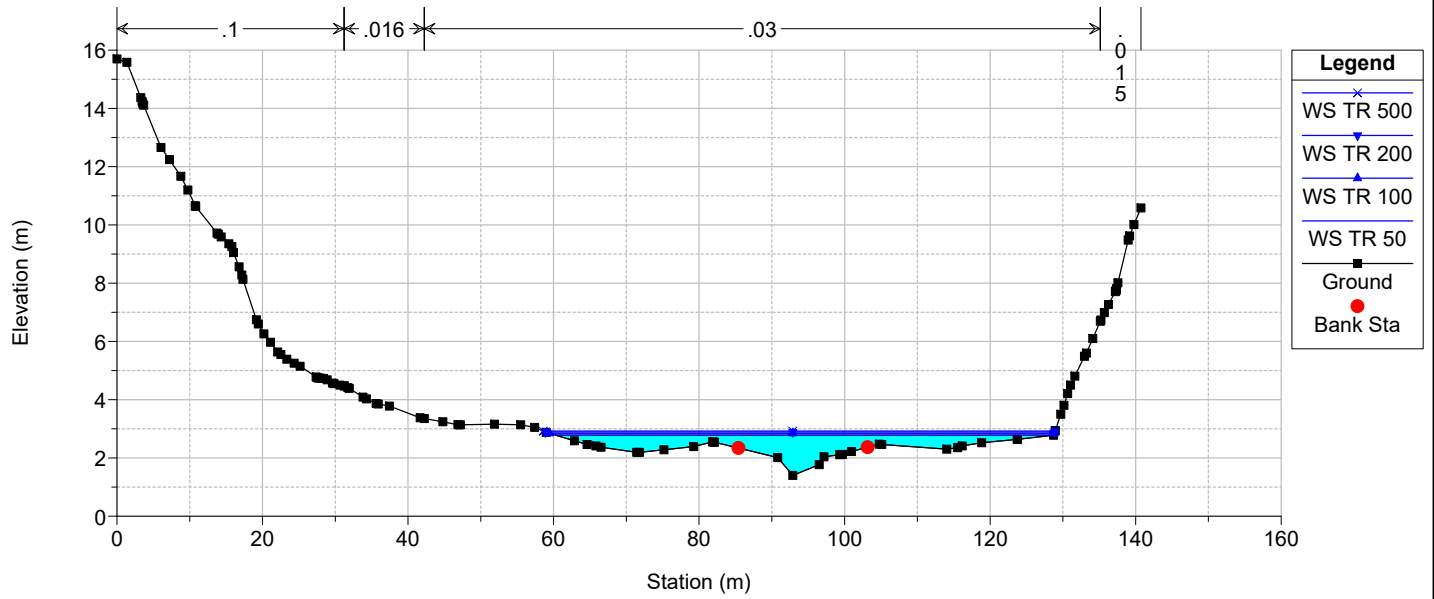


ppalmas06102016 Plan: 09022021 10/02/2021

Geom: ppalmas06102016 Flow: 09022021

River = 81226 Reach = Valle RS = 60.00256 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI





Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Monte	1548.336	TR 50	42.95	26.60	28.51	27.93	28.71	0.045912	2.14	23.31	17.12	0.50
Monte	1548.336	TR 100	52.00	26.60	28.71	28.07	28.93	0.044990	2.27	26.85	17.91	0.51
Monte	1548.336	TR 200	61.23	26.60	28.90	28.21	29.14	0.043977	2.38	30.35	18.60	0.51
Monte	1548.336	TR 500	73.64	26.60	29.13	28.39	29.40	0.043117	2.52	34.74	19.31	0.51
Monte	1530	TR 50	42.95	25.93	28.04		28.13	0.020159	1.54	33.74	22.26	0.34
Monte	1530	TR 100	52.00	25.93	28.26		28.36	0.019899	1.64	38.74	23.30	0.34
Monte	1530	TR 200	61.23	25.93	28.47		28.58	0.019578	1.72	43.71	24.31	0.35
Monte	1530	TR 500	73.64	25.93	28.71		28.83	0.019632	1.83	49.79	25.53	0.35
Monte	1500	TR 50	42.95	25.22	27.32		27.45	0.027076	1.75	28.52	18.11	0.39
Monte	1500	TR 100	52.00	25.22	27.53		27.67	0.027599	1.88	32.39	19.14	0.40
Monte	1500	TR 200	61.23	25.22	27.73		27.89	0.028244	2.01	36.34	21.40	0.41
Monte	1500	TR 500	73.64	25.22	27.96		28.14	0.028325	2.14	41.45	22.32	0.42
Monte	1470	TR 50	42.95	24.31	26.44		26.57	0.031502	1.83	27.54	18.52	0.42
Monte	1470	TR 100	52.00	24.31	26.61		26.77	0.033259	1.99	30.79	19.06	0.44
Monte	1470	TR 200	61.23	24.31	26.77		26.95	0.034812	2.14	33.89	19.59	0.45
Monte	1470	TR 500	73.64	24.31	26.97		27.18	0.036460	2.31	37.89	20.32	0.47
Monte	1440.452	TR 50	42.95	23.87	25.63		25.71	0.026807	1.40	34.85	29.04	0.37
Monte	1440.452	TR 100	52.00	23.87	25.79		25.88	0.026788	1.50	39.52	29.76	0.37
Monte	1440.452	TR 200	61.23	23.87	25.93		26.03	0.027262	1.60	43.76	30.39	0.38
Monte	1440.452	TR 500	73.64	23.87	26.10		26.22	0.028103	1.73	49.18	31.51	0.39
Monte	1410.371	TR 50	42.95	22.95	24.93		24.98	0.018771	1.30	43.49	40.79	0.32
Monte	1410.371	TR 100	52.00	22.95	25.12		25.17	0.017596	1.35	51.61	44.88	0.31
Monte	1410.371	TR 200	61.23	22.95	25.29		25.35	0.016243	1.37	59.58	47.23	0.30
Monte	1410.371	TR 500	73.64	22.95	25.50		25.56	0.014720	1.39	69.79	48.78	0.29
Monte	1380	TR 50	42.95	22.07	24.36		24.43	0.016469	1.38	37.80	24.77	0.31
Monte	1380	TR 100	52.00	22.07	24.55		24.63	0.016936	1.48	42.60	25.49	0.31
Monte	1380	TR 200	61.23	22.07	24.73		24.82	0.017353	1.58	47.19	26.16	0.32
Monte	1380	TR 500	73.64	22.07	24.95		25.05	0.017849	1.69	53.02	27.01	0.33
Monte	1350	TR 50	42.95	21.67	23.62		23.74	0.033167	1.85	29.20	22.86	0.43
Monte	1350	TR 100	52.00	21.67	23.79		23.93	0.033426	1.96	33.19	23.57	0.44
Monte	1350	TR 200	61.23	21.67	23.95		24.11	0.033678	2.07	37.03	24.24	0.44
Monte	1350	TR 500	73.64	21.67	24.15		24.32	0.033999	2.21	41.91	25.06	0.45
Monte	1319.561	TR 50	42.95	21.10	22.94		23.00	0.017720	1.22	39.97	30.34	0.30
Monte	1319.561	TR 100	52.00	21.10	23.10		23.17	0.018010	1.31	45.07	31.07	0.31
Monte	1319.561	TR 200	61.23	21.10	23.26		23.34	0.018264	1.39	49.97	31.76	0.32
Monte	1319.561	TR 500	73.64	21.10	23.45		23.54	0.018580	1.50	56.17	32.60	0.33
Monte	1290	TR 50	42.95	20.60	22.27		22.36	0.027445	1.39	34.21	28.70	0.37
Monte	1290	TR 100	52.00	20.60	22.43		22.53	0.027233	1.48	38.88	29.49	0.38
Monte	1290	TR 200	61.23	20.60	22.58		22.69	0.027039	1.57	43.38	30.16	0.38
Monte	1290	TR 500	73.64	20.60	22.77		22.89	0.026761	1.67	49.13	30.87	0.39
Monte	1260	TR 50	42.95	19.76	21.63		21.69	0.018305	1.25	40.76	32.19	0.31
Monte	1260	TR 100	52.00	19.76	21.80		21.86	0.018333	1.33	46.07	32.72	0.32
Monte	1260	TR 200	61.23	19.76	21.95		22.02	0.018458	1.41	51.09	33.21	0.32
Monte	1260	TR 500	73.64	19.76	22.14		22.22	0.018634	1.51	57.42	33.83	0.33
Monte	1229.926	TR 50	42.95	19.27	21.11		21.17	0.016583	1.23	41.75	32.01	0.30
Monte	1229.926	TR 100	52.00	19.27	21.26		21.33	0.017249	1.33	46.61	32.46	0.31
Monte	1229.926	TR 200	61.23	19.27	21.41		21.48	0.017795	1.42	51.25	32.87	0.32
Monte	1229.926	TR 500	73.64	19.27	21.58		21.67	0.018512	1.53	56.99	33.33	0.33
Monte	1199.59	TR 50	42.95	18.88	20.44		20.52	0.028978	1.50	35.96	34.31	0.39
Monte	1199.59	TR 100	52.00	18.88	20.56		20.65	0.030431	1.62	40.08	34.91	0.40
Monte	1199.59	TR 200	61.23	18.88	20.67		20.78	0.031836	1.73	44.00	35.76	0.42
Monte	1199.59	TR 500	73.64	18.88	20.80		20.93	0.033590	1.86	48.86	36.75	0.43
Monte	1178.55	TR 50	42.95	18.51	19.60		19.68	0.047861	1.42	34.53	45.40	0.46
Monte	1178.55	TR 100	52.00	18.51	19.71		19.80	0.046826	1.50	39.47	46.92	0.46
Monte	1178.55	TR 200	61.23	18.51	19.81		19.91	0.045344	1.57	44.49	48.52	0.46
Monte	1178.55	TR 500	73.64	18.51	19.94		20.05	0.043517	1.65	50.90	49.81	0.46
Monte	1140	TR 50	42.95	17.24	18.39		18.55	0.020525	0.95	26.03	29.98	0.30
Monte	1140	TR 100	52.00	17.24	18.50		18.69	0.020234	1.01	29.39	30.25	0.31
Monte	1140	TR 200	61.23	17.24	18.60		18.82	0.020083	1.07	32.58	30.48	0.31
Monte	1140	TR 500	73.64	17.24	18.74		18.98	0.019803	1.14	36.68	30.78	0.31
Monte	1110	TR 50	42.95	16.56	18.00		18.15	0.010297	0.77	29.10	31.71	0.22
Monte	1110	TR 100	52.00	16.56	18.09		18.27	0.011433	0.85	31.77	32.28	0.24
Monte	1110	TR 200	61.23	16.56	18.17		18.38	0.012522	0.93	34.31	32.88	0.25
Monte	1110	TR 500	73.64	16.56	18.26		18.52	0.014110	1.02	37.35	33.76	0.27
Monte	1081.592	TR 50	42.95	16.33	17.43	17.40	17.69	0.019603	0.89	22.16	37.13	0.29
Monte	1081.592	TR 100	52.00	16.33	17.52	17.47	17.81	0.016918	0.89	25.75	37.46	0.28
Monte	1081.592	TR 200	61.23	16.33	17.62		17.92	0.015141	0.89	29.20	37.78	0.27

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Monte	1081.592	TR 500	73.64	16.33	17.74	17.65	18.07	0.012941	0.88	34.02	38.22	0.25
Monte	1050	TR 50	42.95	15.67	16.73	16.73	17.11	0.014612	3.07	21.49	28.22	1.03
Monte	1050	TR 100	52.00	15.67	16.84	16.84	17.27	0.014524	3.28	24.39	28.58	1.04
Monte	1050	TR 200	61.23	15.67	16.94	16.94	17.42	0.014060	3.44	27.42	28.95	1.04
Monte	1050	TR 500	73.64	15.67	17.07	17.07	17.60	0.013748	3.65	31.16	29.41	1.04
Monte	1020	TR 50	42.95	15.13	16.17	16.13	16.48	0.016304	2.03	23.41	34.61	0.67
Monte	1020	TR 100	52.00	15.13	16.26	16.23	16.62	0.016183	2.14	26.67	35.05	0.68
Monte	1020	TR 200	61.23	15.13	16.33	16.32	16.75	0.017302	2.31	29.12	35.44	0.70
Monte	1020	TR 500	73.64	15.13	16.27	16.44	16.97	0.031916	3.02	26.82	35.07	0.95
Monte	990.0001	TR 50	42.95	14.59	15.58	15.56	15.91	0.022601	1.23	23.94	35.71	0.41
Monte	990.0001	TR 100	52.00	14.59	15.66	15.66	16.04	0.022686	1.30	26.77	36.02	0.42
Monte	990.0001	TR 200	61.23	14.59	15.75	15.75	16.18	0.021012	1.33	30.19	36.38	0.41
Monte	990.0001	TR 500	73.64	14.59	15.87	15.87	16.34	0.019684	1.38	34.51	37.06	0.40
Monte	960	TR 50	42.95	13.86	14.88	14.88	15.19	0.024712	2.52	22.58	36.87	0.81
Monte	960	TR 100	52.00	13.86	14.97	14.96	15.32	0.024080	2.63	25.67	37.29	0.81
Monte	960	TR 200	61.23	13.86	15.00	15.05	15.45	0.028016	2.90	27.12	37.45	0.88
Monte	960	TR 500	73.64	13.86	15.08	15.15	15.61	0.029663	3.12	29.91	37.74	0.92
Monte	930.0001	TR 50	42.95	13.36	14.34	14.34	14.65	0.013725	2.70	21.32	35.34	0.93
Monte	930.0001	TR 100	52.00	13.36	14.42	14.42	14.78	0.014093	2.89	24.11	35.86	0.96
Monte	930.0001	TR 200	61.23	13.36	14.51	14.51	14.90	0.013802	3.02	27.18	36.56	0.96
Monte	930.0001	TR 500	73.64	13.36	14.62	14.62	15.05	0.013325	3.17	31.20	37.04	0.95
Monte	900.0001	TR 50	42.95	13.01	13.82	13.87	14.17	0.018998	2.93	20.58	43.82	1.16
Monte	900.0001	TR 100	52.00	13.01	13.88	13.95	14.29	0.019085	3.13	23.54	44.35	1.18
Monte	900.0001	TR 200	61.23	13.01	13.94	14.03	14.40	0.019843	3.35	26.04	44.74	1.21
Monte	900.0001	TR 500	73.64	13.01	14.01	14.12	14.55	0.020745	3.62	29.15	45.12	1.25
Monte	870.0001	TR 50	42.95	12.54	13.52	13.43	13.75	0.008828	2.40	25.74	41.35	0.83
Monte	870.0001	TR 100	52.00	12.54	13.60	13.51	13.86	0.009143	2.60	29.11	41.80	0.86
Monte	870.0001	TR 200	61.23	12.54	13.68	13.60	13.98	0.009213	2.76	32.55	42.26	0.88
Monte	870.0001	TR 500	73.64	12.54	13.78	13.69	14.12	0.009464	2.97	36.66	42.71	0.90
Monte	840	TR 50	42.95	12.23	13.13	13.13	13.42	0.013059	2.80	24.09	42.11	1.00
Monte	840	TR 100	52.00	12.23	13.21	13.21	13.54	0.012758	2.96	27.63	42.50	1.01
Monte	840	TR 200	61.23	12.23	13.29	13.29	13.65	0.012879	3.14	30.71	42.78	1.03
Monte	840	TR 500	73.64	12.23	13.38	13.38	13.78	0.012679	3.32	34.89	43.17	1.04
Monte	809.6375	TR 50	42.95	11.75	12.77	12.64	12.95	0.012916	1.89	29.41	44.99	0.63
Monte	809.6375	TR 100	52.00	11.75	12.85	12.71	13.06	0.013016	2.00	33.06	45.50	0.64
Monte	809.6375	TR 200	61.23	11.75	12.93	12.78	13.17	0.012831	2.08	36.78	46.03	0.64
Monte	809.6375	TR 500	73.64	11.75	13.04	12.87	13.30	0.012839	2.21	41.89	48.15	0.65
Monte	780.6959	TR 50	42.95	11.29	12.17	12.17	12.50	0.018043	2.59	22.49	42.65	0.93
Monte	780.6959	TR 100	52.00	11.29	12.29	12.29	12.63	0.016178	2.68	27.78	48.14	0.90
Monte	780.6959	TR 200	61.23	11.29	12.38	12.38	12.74	0.016000	2.82	31.99	49.97	0.91
Monte	780.6959	TR 500	73.64	11.29	12.49	12.49	12.88	0.015488	2.98	37.65	52.38	0.91
Monte	750	TR 50	42.95	11.13	12.17	11.82	12.25	0.002608	1.43	33.54	40.93	0.46
Monte	750	TR 100	52.00	11.13	12.25	11.89	12.35	0.002820	1.57	36.90	41.26	0.49
Monte	750	TR 200	61.23	11.13	12.33	11.95	12.45	0.002932	1.69	40.39	41.62	0.50
Monte	750	TR 500	73.64	11.13	12.44	12.04	12.58	0.003027	1.82	44.92	42.08	0.52
Monte	720	TR 50	42.95	11.03	11.79	11.79	12.07	0.015753	2.78	18.63	39.35	1.07
Monte	720	TR 100	52.00	11.03	11.90	11.90	12.17	0.013191	2.80	22.91	40.71	1.01
Monte	720	TR 200	61.23	11.03	11.96	11.96	12.27	0.013131	2.94	25.51	41.42	1.02
Monte	720	TR 500	73.64	11.03	12.04	12.04	12.39	0.013437	3.15	28.73	43.12	1.04
Monte	689.9999	TR 50	42.95	10.70	11.26	11.31	11.56	0.023082	2.67	17.80	42.99	1.23
Monte	689.9999	TR 100	52.00	10.70	11.31	11.38	11.65	0.022916	2.86	20.20	44.07	1.24
Monte	689.9999	TR 200	61.23	10.70	11.36	11.45	11.75	0.023321	3.05	22.41	45.39	1.27
Monte	689.9999	TR 500	73.64	10.70	11.43	11.52	11.86	0.023168	3.27	25.44	47.15	1.29
Monte	660	TR 50	42.95	10.13	11.07	10.96	11.18	0.006172	1.85	29.60	58.70	0.68
Monte	660	TR 100	52.00	10.13	11.15	11.01	11.27	0.005740	1.90	34.11	59.37	0.66
Monte	660	TR 200	61.23	10.13	11.21	11.06	11.35	0.005649	1.98	38.02	60.65	0.67
Monte	660	TR 500	73.64	10.13	11.29	11.12	11.45	0.005553	2.09	43.11	62.64	0.67
Monte	630.0001	TR 50	42.95	10.14	10.89		10.99	0.004935	1.49	30.36	55.85	0.59
Monte	630.0001	TR 100	52.00	10.14	10.97		11.08	0.005127	1.64	34.84	57.71	0.61
Monte	630.0001	TR 200	61.23	10.14	11.03		11.16	0.005051	1.72	38.77	58.11	0.62
Monte	630.0001	TR 500	73.64	10.14	11.12		11.27	0.004963	1.83	43.76	58.58	0.62
Monte	600.0001	TR 50	42.95	10.12	10.70		10.82	0.006084	1.36	28.67	52.10	0.62
Monte	600.0001	TR 100	52.00	10.12	10.77		10.90	0.006020	1.48	32.33	52.46	0.63
Monte	600.0001	TR 200	61.23	10.12	10.84		10.99	0.005952	1.58	35.87	54.48	0.64
Monte	600.0001	TR 500	73.64	10.12	10.93		11.09	0.005787	1.70	40.72	56.99	0.65
Monte	570	TR 50	42.95	9.77	10.39	10.35	10.57	0.010675	1.83	23.40	49.11	0.84

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	570	TR 100	52.00	9.77	10.45	10.41	10.66	0.010887	1.99	26.23	49.49	0.86
Monte	570	TR 200	61.23	9.77	10.50	10.47	10.74	0.011117	2.14	28.88	49.86	0.88
Monte	570	TR 500	73.64	9.77	10.56	10.54	10.84	0.011725	2.34	31.91	50.28	0.92
Monte	540.0001	TR 50	42.95	9.23	10.01	10.01	10.22	0.013309	2.18	22.28	52.64	0.95
Monte	540.0001	TR 100	52.00	9.23	10.07	10.07	10.30	0.013190	2.32	25.31	53.48	0.96
Monte	540.0001	TR 200	61.23	9.23	10.12	10.12	10.38	0.013141	2.45	28.17	54.23	0.97
Monte	540.0001	TR 500	73.64	9.23	10.19	10.19	10.48	0.012778	2.59	32.04	55.22	0.97
Monte	510	TR 50	42.95	8.47	9.26	9.37	9.65	0.027049	3.50	16.88	46.69	1.39
Monte	510	TR 100	52.00	8.47	9.31	9.43	9.74	0.026542	3.64	19.27	47.18	1.39
Monte	510	TR 200	61.23	8.47	9.36	9.49	9.82	0.025941	3.77	21.62	47.74	1.39
Monte	510	TR 500	73.64	8.47	9.42	9.56	9.93	0.025528	3.94	24.52	48.42	1.40
Monte	480	TR 50	42.95	7.77	8.56	8.64	8.89	0.022978	3.11	18.32	50.83	1.27
Monte	480	TR 100	52.00	7.77	8.61	8.70	8.97	0.023442	3.31	20.81	52.33	1.30
Monte	480	TR 200	61.23	7.77	8.65	8.74	9.06	0.024120	3.49	22.96	52.88	1.33
Monte	480	TR 500	73.64	7.77	8.70	8.84	9.17	0.024751	3.71	25.71	53.56	1.36
Monte	450	TR 50	42.95	6.90	7.65	7.76	8.08	0.031855	3.03	15.26	40.45	1.43
Monte	450	TR 100	52.00	6.90	7.70	7.84	8.18	0.029995	3.18	17.67	41.68	1.41
Monte	450	TR 200	61.23	6.90	7.76	7.91	8.27	0.028325	3.31	20.07	43.01	1.40
Monte	450	TR 500	73.64	6.90	7.83	8.00	8.39	0.026744	3.48	23.21	45.80	1.38
Monte	421.5036	TR 50	42.95	6.37	7.61	7.13	7.65	0.001208	1.10	49.31	60.76	0.33
Monte	421.5036	TR 100	52.00	6.37	7.71	7.19	7.75	0.001222	1.17	55.43	61.47	0.33
Monte	421.5036	TR 200	61.23	6.37	7.78	7.24	7.84	0.001348	1.28	60.08	63.37	0.35
Monte	421.5036	TR 500	73.64	6.37	7.89	7.32	7.96	0.001474	1.41	67.23	68.56	0.37
Monte	421.4806	TR 50	42.95	6.37	7.57		7.62	0.001492	1.20	45.12	56.44	0.36
Monte	421.4806	TR 100	52.00	6.37	7.67		7.72	0.001505	1.27	50.71	56.80	0.37
Monte	421.4806	TR 200	61.23	6.37	7.74		7.80	0.001639	1.38	54.67	57.06	0.39
Monte	421.4806	TR 500	73.64	6.37	7.84		7.92	0.001760	1.50	60.70	59.34	0.40
Monte	398.3554	TR 50	42.95	5.12	7.51	7.27	7.58	0.001645	1.59	44.16	62.17	0.34
Monte	398.3554	TR 100	52.00	5.12	7.61	7.33	7.68	0.001636	1.63	50.60	63.53	0.34
Monte	398.3554	TR 200	61.23	5.12	7.68	7.37	7.76	0.001824	1.76	54.88	66.41	0.36
Monte	398.3554	TR 500	73.64	5.12	7.79	7.42	7.87	0.001825	1.81	62.22	69.42	0.37
Monte	387.0663		Culvert									
Monte	377.061	TR 50	42.95	5.08	6.57	6.57	6.82	0.003287	1.97	23.57	43.83	0.53
Monte	377.061	TR 100	52.00	5.08	6.66	6.66	6.91	0.003286	2.05	27.78	49.77	0.53
Monte	377.061	TR 200	61.23	5.08	6.75	6.75	6.99	0.003221	2.11	32.36	58.54	0.53
Monte	377.061	TR 500	73.64	5.08	6.81	6.81	7.07	0.003576	2.28	36.49	63.16	0.56
Valle	357.5708	TR 50	58.12	5.06	6.26	6.38	6.71	0.005912	3.79	20.57	47.88	1.42
Valle	357.5708	TR 100	70.10	5.06	6.33	6.46	6.80	0.005412	3.85	23.94	48.80	1.38
Valle	357.5708	TR 200	82.28	5.06	6.40	6.54	6.88	0.004820	3.86	27.64	50.90	1.32
Valle	357.5708	TR 500	98.60	5.06	6.51	6.63	6.98	0.004018	3.82	33.62	55.89	1.23
Valle	330	TR 50	58.12	4.56	5.96	6.13	6.53	0.006422	4.45	19.05	43.06	1.49
Valle	330	TR 100	70.10	4.56	6.03	6.21	6.63	0.006150	4.57	21.90	43.81	1.47
Valle	330	TR 200	82.28	4.56	6.49	6.27	6.68	0.001104	2.50	43.41	51.76	0.66
Valle	330	TR 500	98.60	4.56	6.64	6.36	6.84	0.000964	2.50	51.78	54.85	0.63
Valle	299.9999	TR 50	58.12	2.86	6.31	5.66	6.37	0.000217	1.39	54.66	42.61	0.25
Valle	299.9999	TR 100	70.10	2.86	6.43	5.74	6.50	0.000241	1.50	59.83	43.32	0.26
Valle	299.9999	TR 200	82.28	2.86	6.55	5.81	6.63	0.000265	1.61	65.22	49.04	0.27
Valle	299.9999	TR 500	98.60	2.86	6.69	5.90	6.80	0.000307	1.78	72.56	51.34	0.30
Valle	283.727		Culvert									
Valle	267.2863	TR 50	58.12	2.81	5.55	5.55	5.93	0.001571	2.98	24.35	31.62	0.73
Valle	267.2863	TR 100	70.10	2.81	5.67	5.67	6.07	0.001607	3.15	28.06	32.89	0.75
Valle	267.2863	TR 200	82.28	2.81	5.77	5.77	6.21	0.001664	3.32	31.39	34.06	0.77
Valle	267.2863	TR 500	98.60	2.81	5.88	5.88	6.38	0.001805	3.59	35.17	36.03	0.81
Valle	240	TR 50	58.12	2.64	4.32	4.76	5.74	0.008239	6.09	11.54	13.90	1.77
Valle	240	TR 100	70.10	2.64	4.49	4.98	5.89	0.006875	6.07	13.94	14.58	1.65
Valle	240	TR 200	82.28	2.64	4.66	5.10	6.04	0.005799	6.03	16.50	15.35	1.54
Valle	240	TR 500	98.60	2.64	4.88	5.48	6.22	0.004769	5.98	20.08	18.48	1.43
Valle	210	TR 50	58.12	2.63	3.53	4.05	5.37	0.016015	6.55	10.02	16.94	2.39
Valle	210	TR 100	70.10	2.63	3.63	4.17	5.56	0.014179	6.71	11.85	19.44	2.29
Valle	210	TR 200	82.28	2.63	3.72	4.28	5.73	0.012934	6.86	13.91	23.58	2.23
Valle	210	TR 500	98.60	2.63	3.83	4.41	5.93	0.012035	7.09	16.50	25.37	2.19
Valle	187.8894	TR 50	58.12	2.57	4.60	4.14	4.69	0.000355	1.74	47.79	49.12	0.41
Valle	187.8894	TR 100	70.10	2.57	4.70	4.22	4.81	0.000398	1.90	52.75	51.40	0.44
Valle	187.8894	TR 200	82.28	2.57	4.80	4.31	4.92	0.000438	2.06	58.13	55.63	0.46
Valle	187.8894	TR 500	98.60	2.57	4.90	4.39	5.05	0.000498	2.27	63.85	59.12	0.50

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	163.5657	TR 50	58.12	2.37	4.60	4.01	4.68	0.000465	1.07	59.13	56.90	0.23
Valle	163.5657	TR 100	70.10	2.37	4.70	4.09	4.79	0.000512	1.15	64.73	58.04	0.24
Valle	163.5657	TR 200	82.28	2.37	4.80	4.18	4.91	0.000542	1.22	70.60	60.86	0.25
Valle	163.5657	TR 500	98.60	2.37	4.90	4.28	5.03	0.000665	1.39	76.89	65.63	0.28
Valle	158.9122		Culvert									
Valle	152.5728	TR 50	58.12	2.24	4.38	4.38	4.65	0.002937	2.78	37.08	58.95	0.61
Valle	152.5728	TR 100	70.10	2.24	4.45	4.45	4.76	0.003234	2.98	40.99	60.52	0.65
Valle	152.5728	TR 200	82.28	2.24	4.60		4.87	0.002478	2.73	50.21	63.64	0.57
Valle	152.5728	TR 500	98.60	2.24	4.66	4.60	5.00	0.002881	2.99	54.04	65.18	0.62
Valle	119.9318	TR 50	58.12	1.71	3.42	3.72	4.42	0.009839	3.87	16.18	14.33	0.98
Valle	119.9318	TR 100	70.10	1.71	3.78	3.89	4.56	0.007255	3.82	22.01	19.17	0.87
Valle	119.9318	TR 200	82.28	1.71	4.19	4.19	4.74	0.004273	3.33	31.59	35.50	0.69
Valle	119.9318	TR 500	98.60	1.71	4.47	4.47	4.88	0.003516	3.26	44.78	51.49	0.64
Valle	90.02309	TR 50	58.12	1.44	2.85	3.27	4.15	0.006511	5.81	12.36	16.34	1.66
Valle	90.02309	TR 100	70.10	1.44	3.04	3.33	4.32	0.005656	5.95	16.08	22.82	1.58
Valle	90.02309	TR 200	82.28	1.44	3.12	3.59	4.50	0.005842	6.26	17.91	23.32	1.62
Valle	90.02309	TR 500	98.60	1.44	3.25	3.76	4.65	0.005450	6.39	20.97	24.20	1.59
Valle	60.00256	TR 50	58.12	1.41	2.24	2.65	3.70	0.059643	5.36	10.97	22.83	2.33
Valle	60.00256	TR 100	70.10	1.41	2.31	2.76	3.90	0.055791	5.61	12.77	24.72	2.30
Valle	60.00256	TR 200	82.28	1.41	2.38	2.86	4.08	0.053288	5.83	14.49	26.14	2.28
Valle	60.00256	TR 500	98.60	1.41	2.47	2.99	4.25	0.049228	6.00	16.90	27.36	2.23
Valle	29.85536	TR 50	58.12	1.40	2.79	2.79	3.00	0.007136	2.40	31.50	68.50	0.86
Valle	29.85536	TR 100	70.10	1.40	2.84	2.84	3.08	0.007340	2.55	35.50	69.37	0.88
Valle	29.85536	TR 200	82.28	1.40	2.89	2.90	3.16	0.007831	2.73	38.72	70.01	0.92
Valle	29.85536	TR 500	98.60	1.40	2.92	2.97	3.27	0.009531	3.08	40.92	70.34	1.02

COMUNE DI SASSARI

Studio di Assetto Idraulico del territorio comunale

Variante al PAI ai sensi dell'art. 374 c.3 delle N.A.

Aggiornamento a seguito di prescrizioni (prot. N. 12928 del 30.12.2020)

Area di indagine: **TERRITORIO COMUNALE**

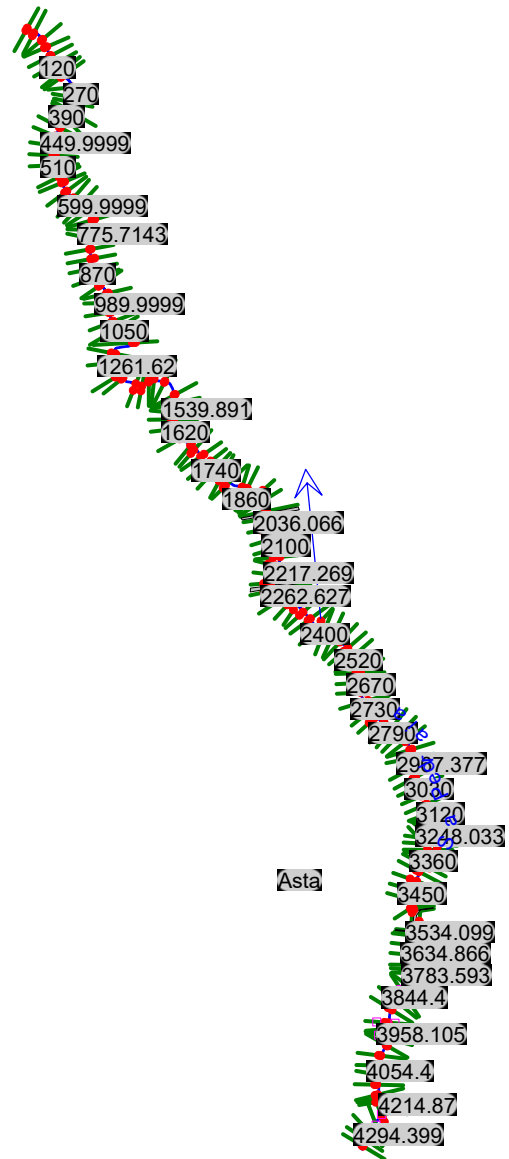
SIMULAZIONI IN MOTO PERMANENTE

Modello 22 : Sa Pedraia

- 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 tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per tempi di ritorno 50, 100, 200 e 500 anni;
- Calcolo della portata critica;
- Profilo longitudinale del livello idrico per il tempo di ritorno critico TC;
- Verifica dei franchi idraulici e della portata critica;

River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
Sa Pedraia	Asta	4294.399	54.448	65.384	76.513	91.537

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Sa Pedraia	Asta	all	Critical Depth	Known WS

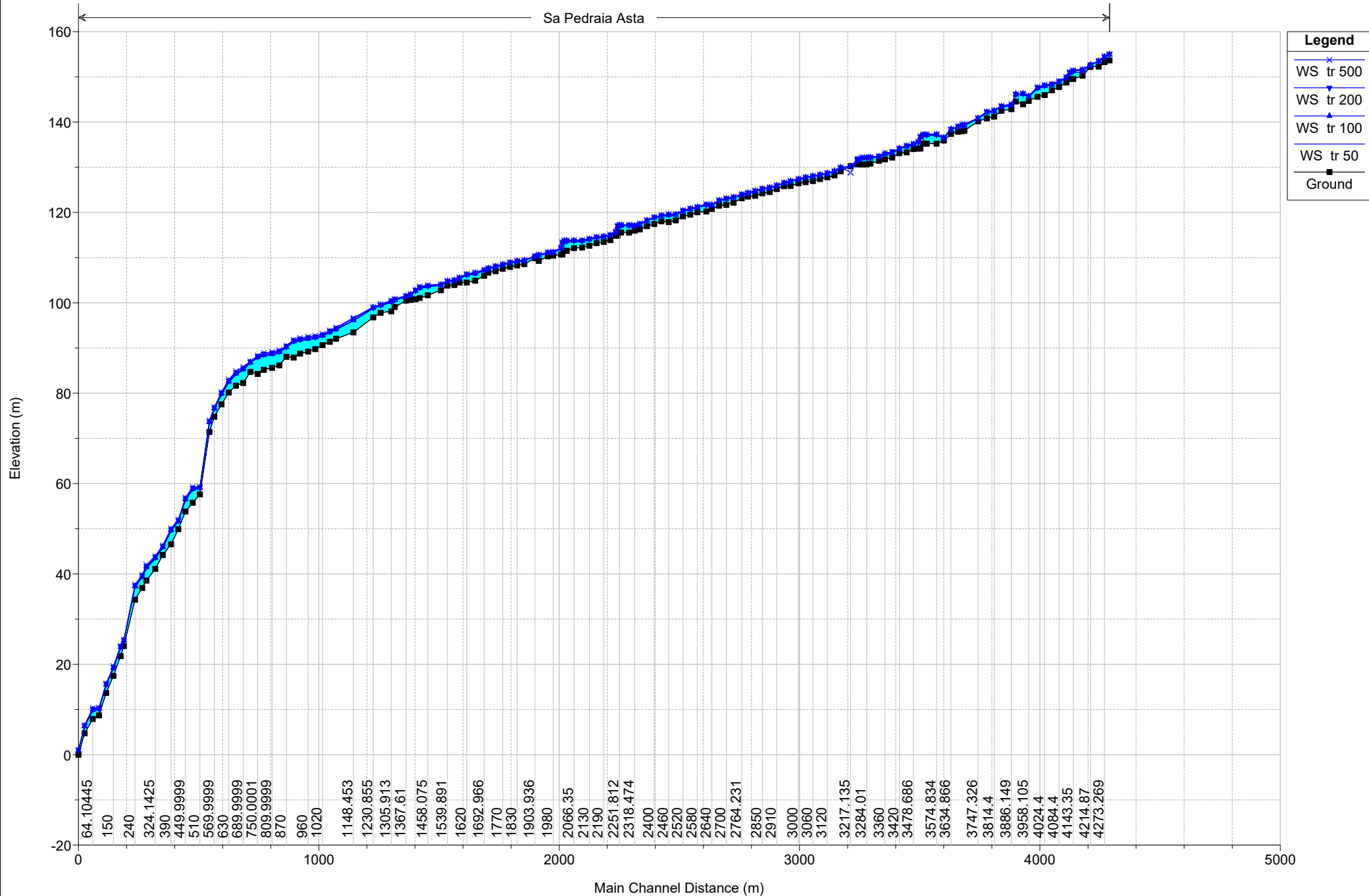


Asta

sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI

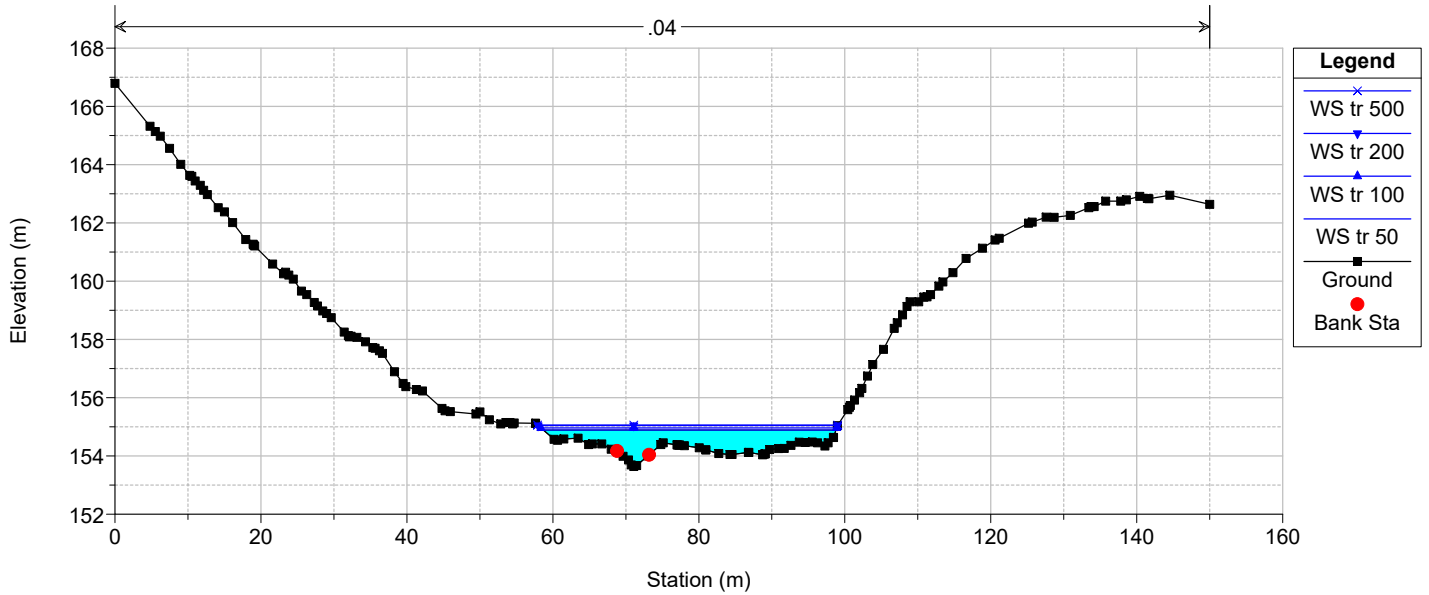
Sa Pedraia Asta



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

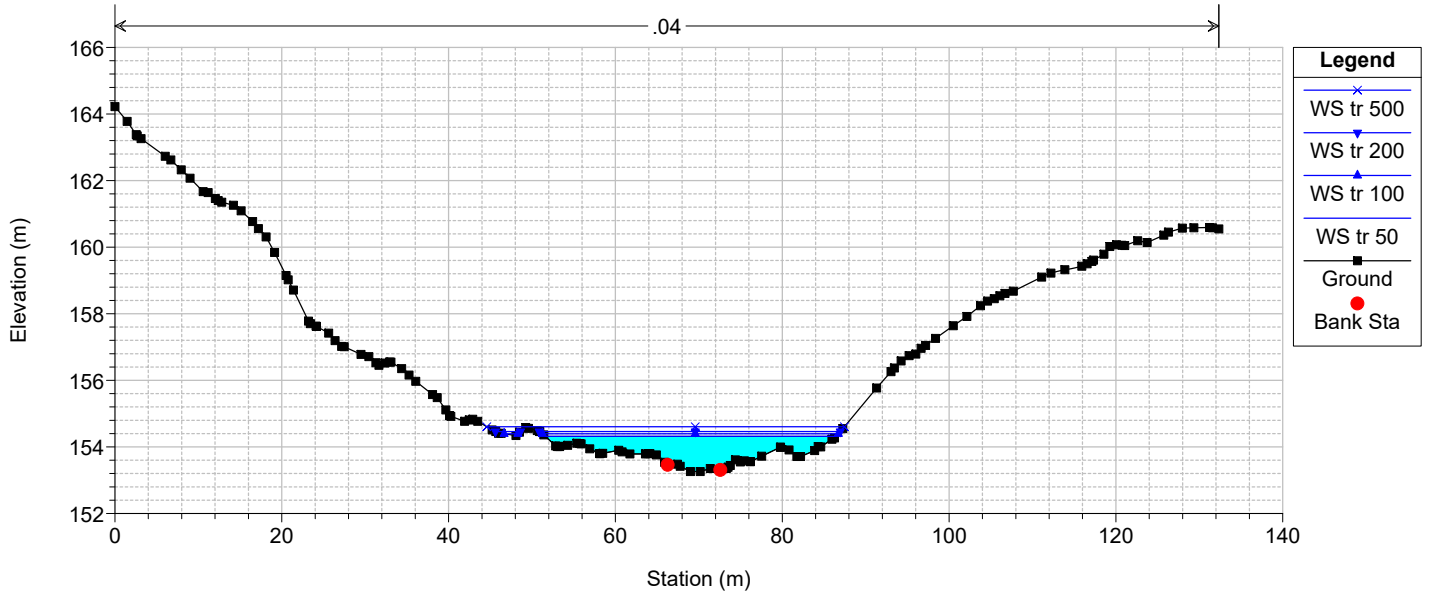
River = Sa Pedraia Reach = Asta RS = 4294.399 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

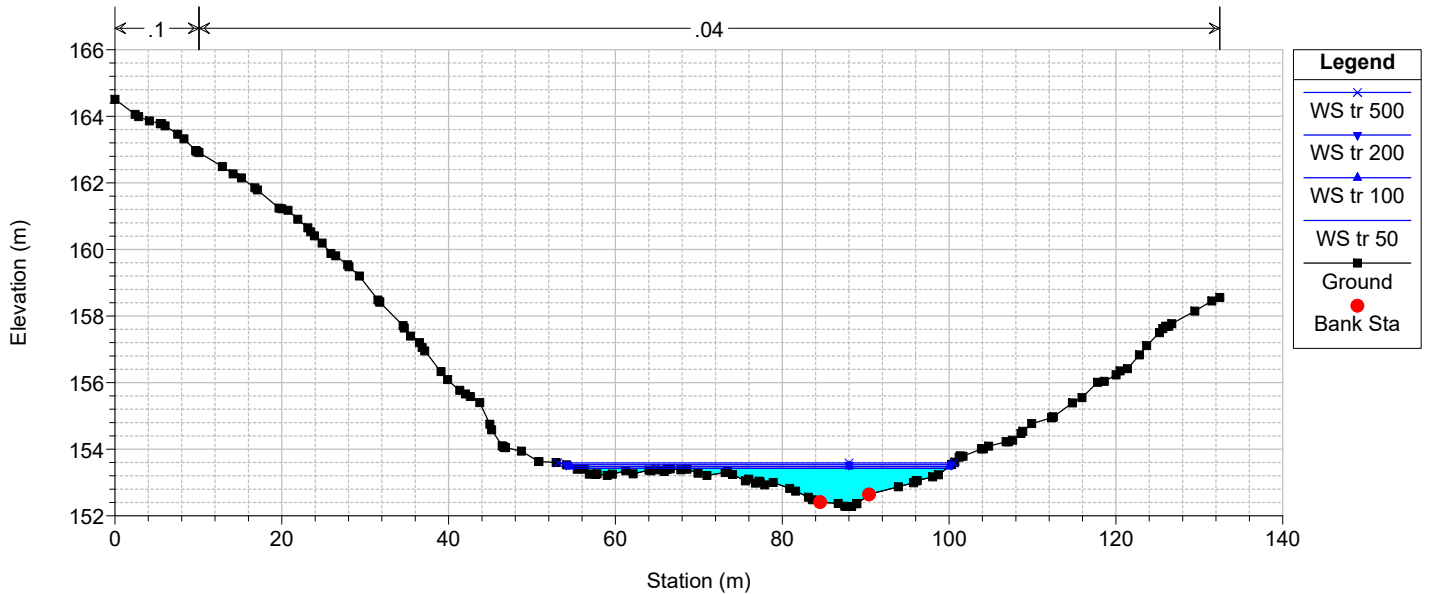
River = Sa Pedraia Reach = Asta RS = 4273.269 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

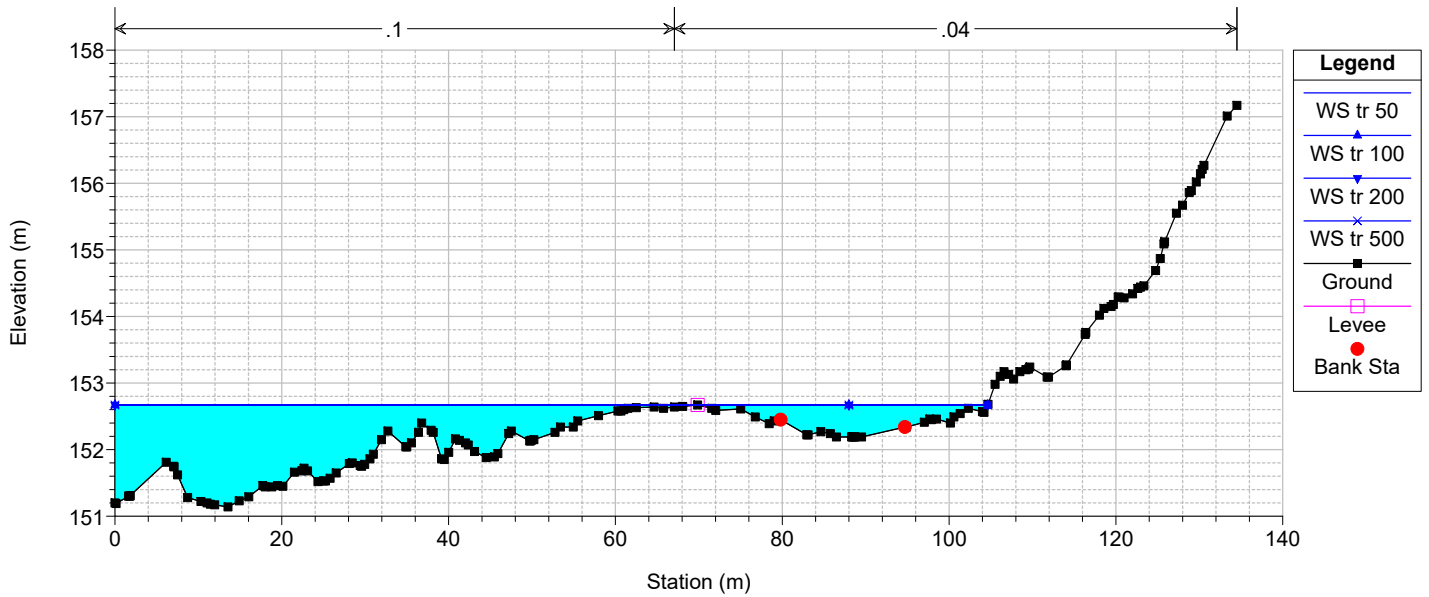
River = Sa Pedraia Reach = Asta RS = 4248.936 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

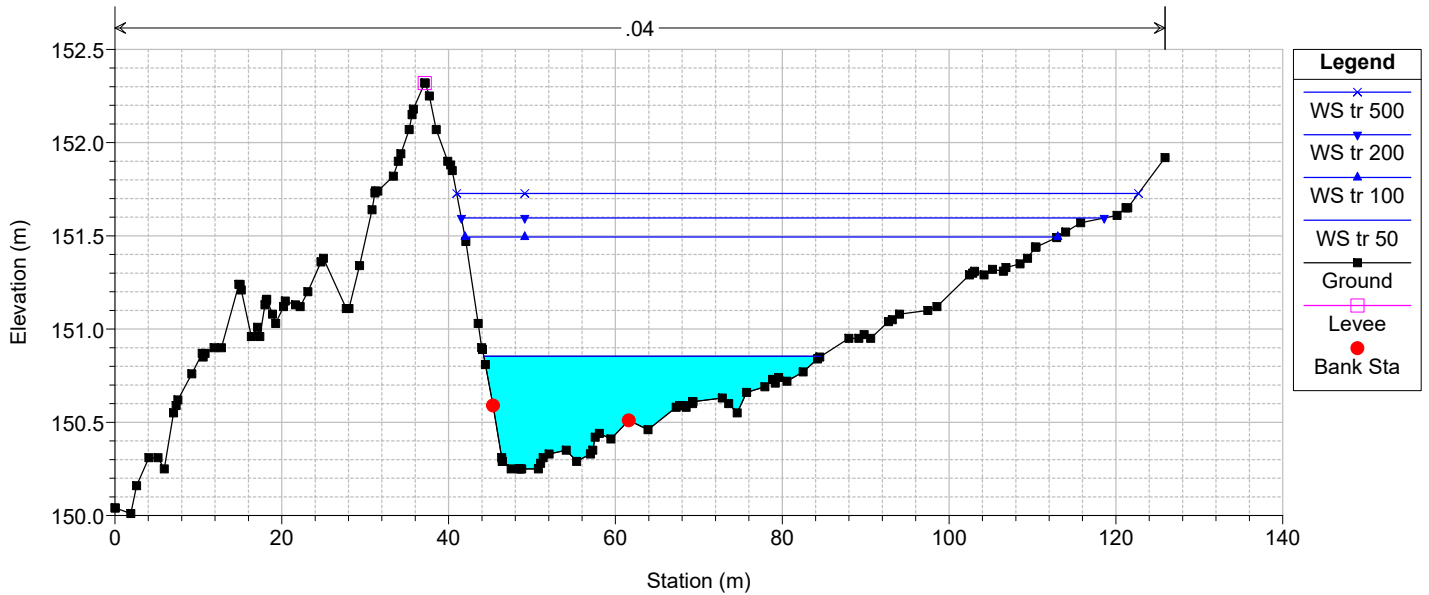
River = Sa Pedraia Reach = Asta RS = 4214.87 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

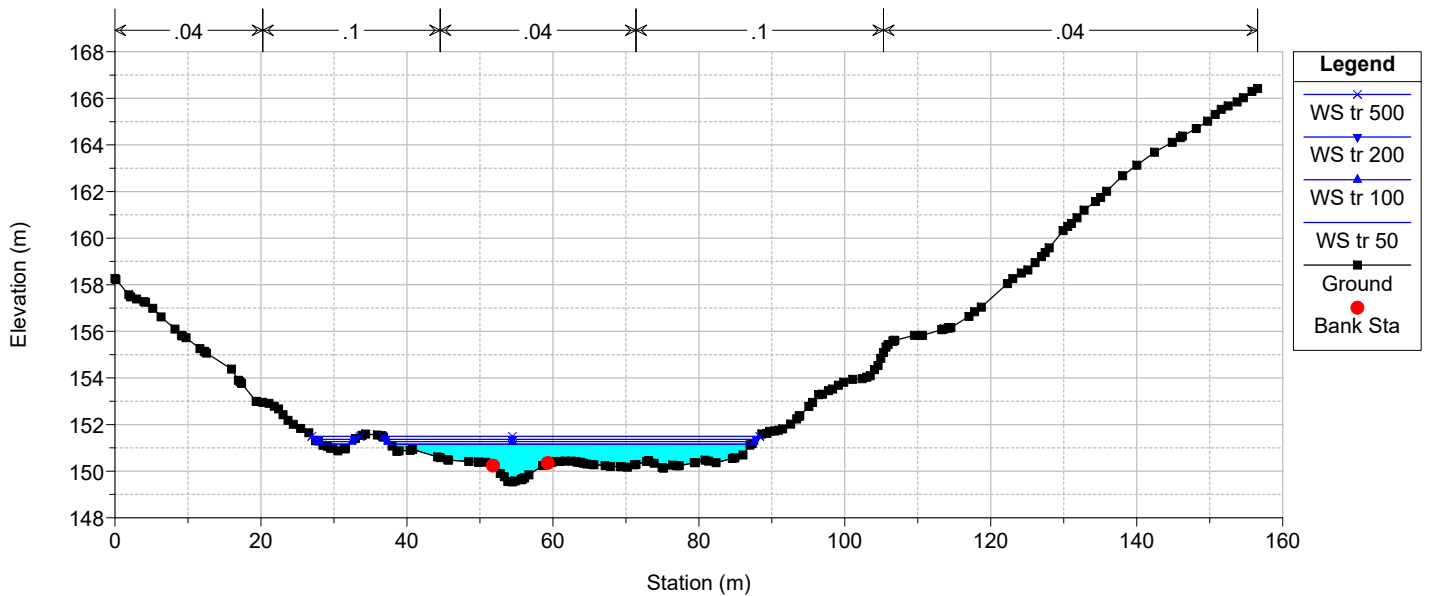
River = Sa Pedraia Reach = Asta RS = 4182.068 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

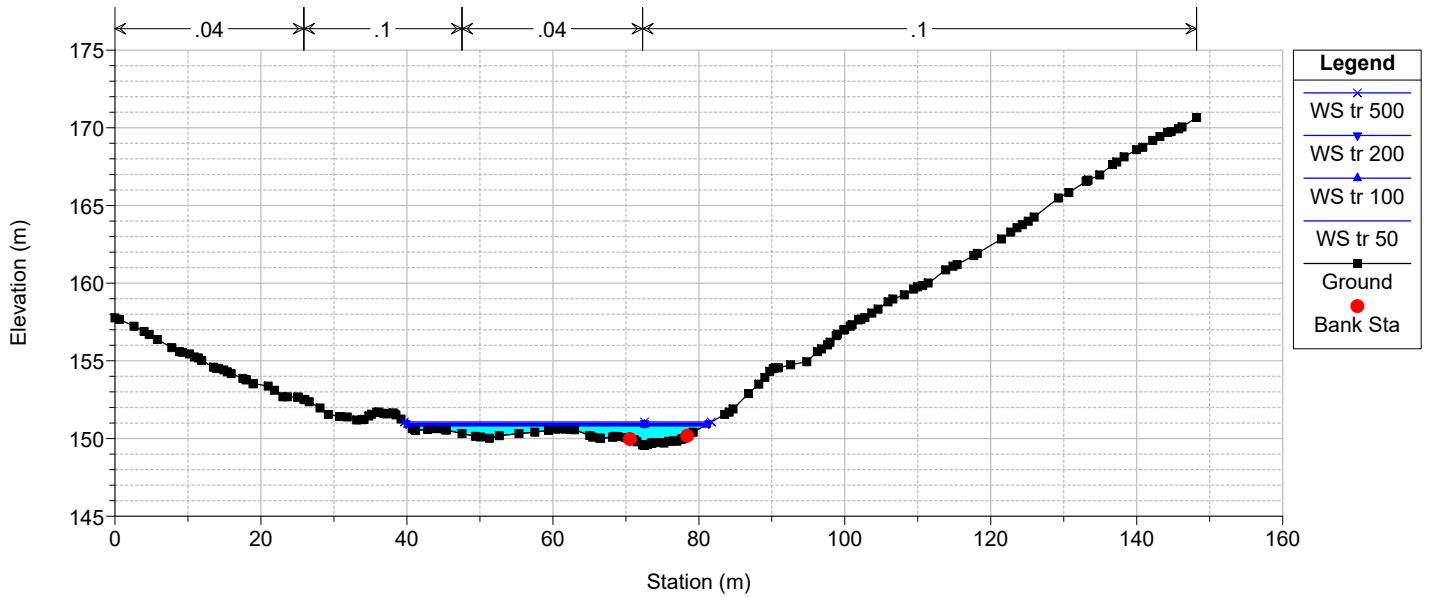
River = Sa Pedraia Reach = Asta RS = 4143.35 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

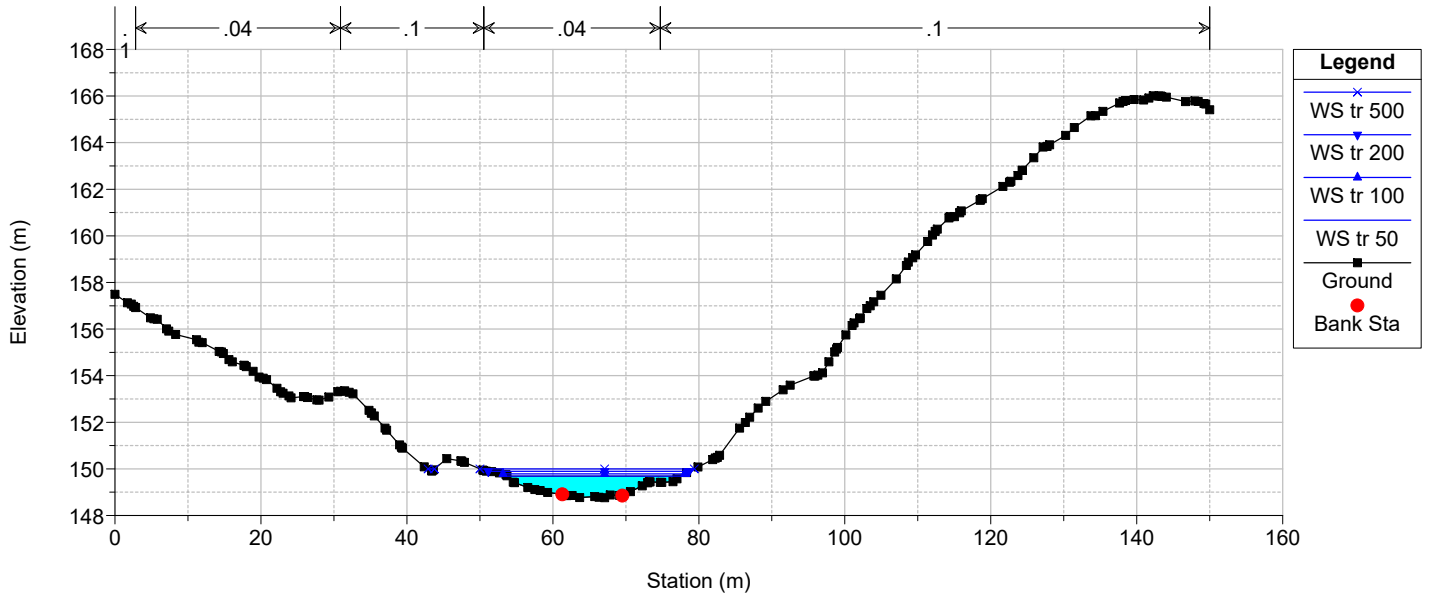
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sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

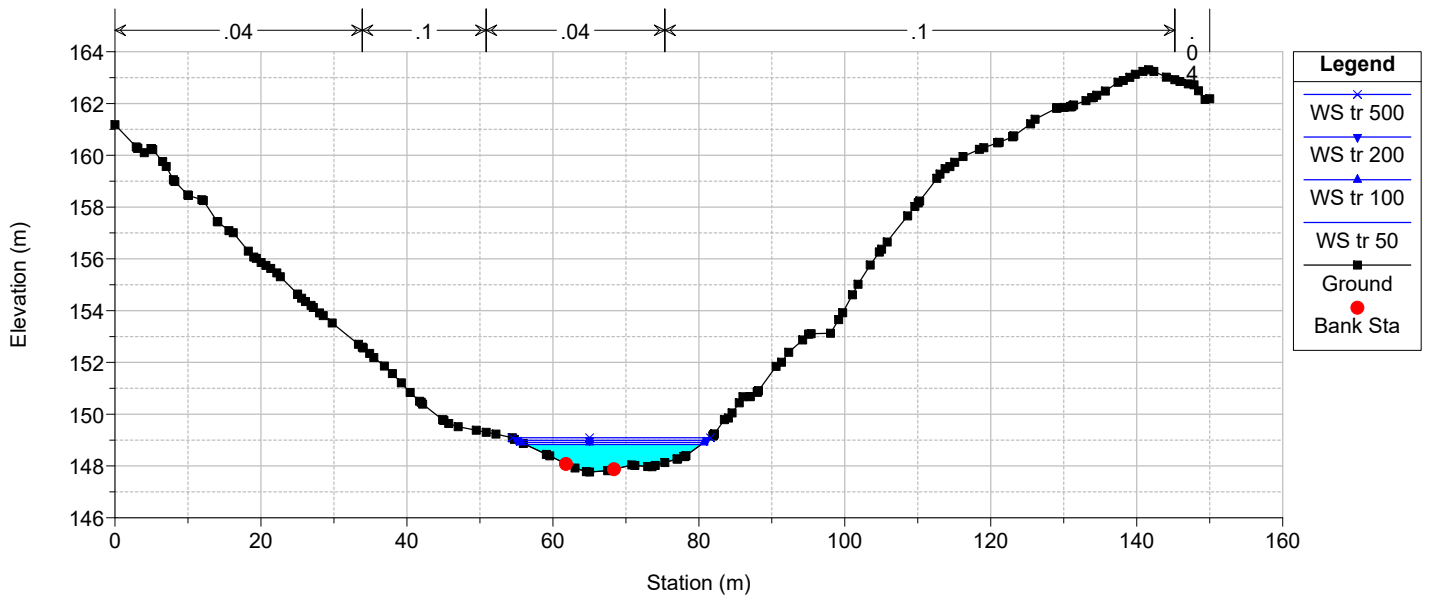
River = Sa Pedraia Reach = Asta RS = 4114.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

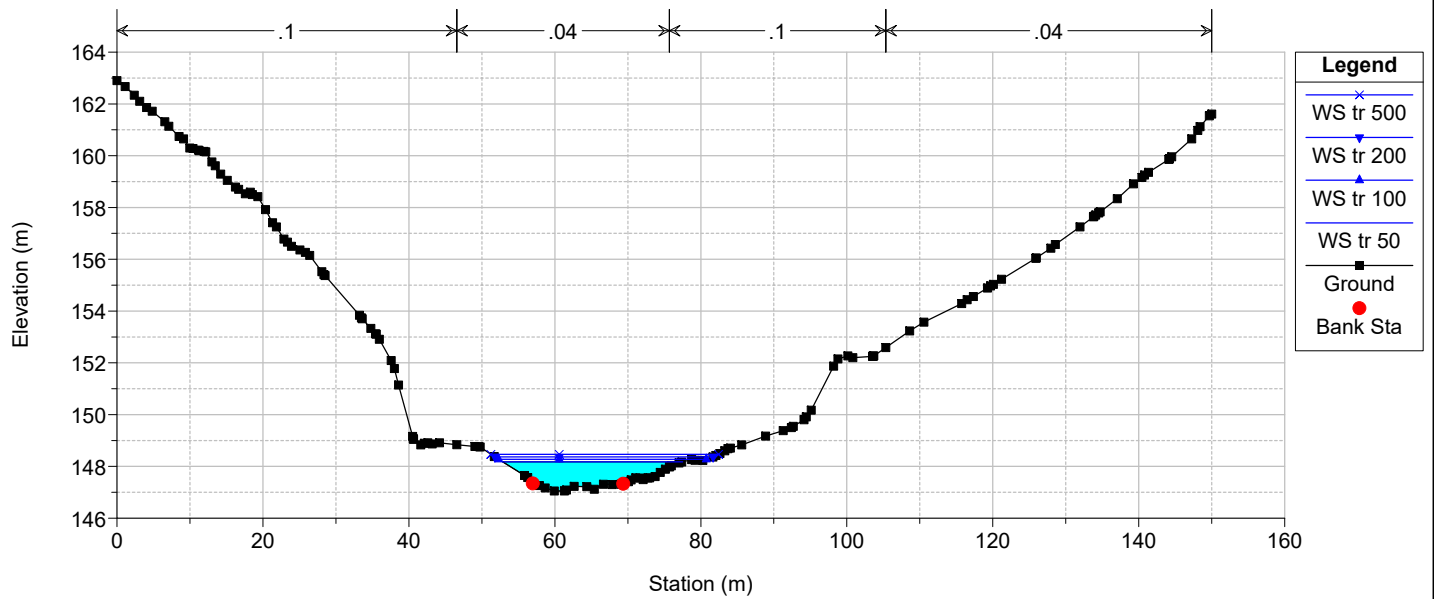
River = Sa Pedraia Reach = Asta RS = 4084.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

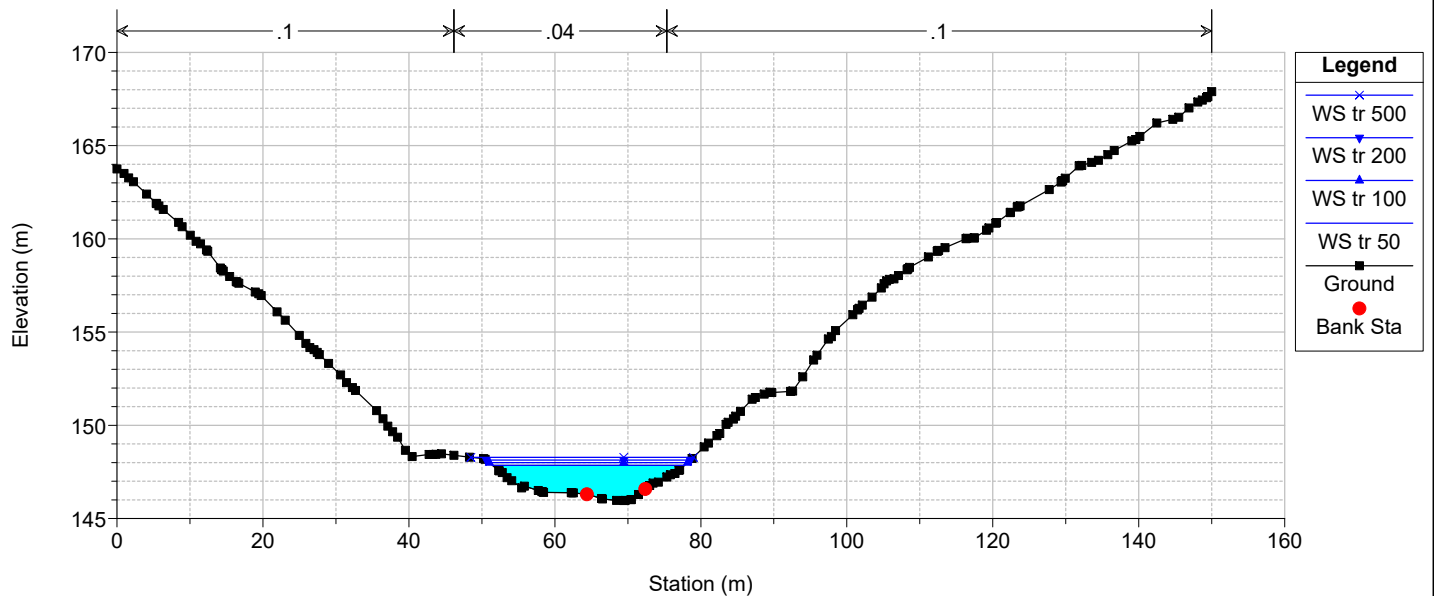
River = Sa Pedraia Reach = Asta RS = 4054.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

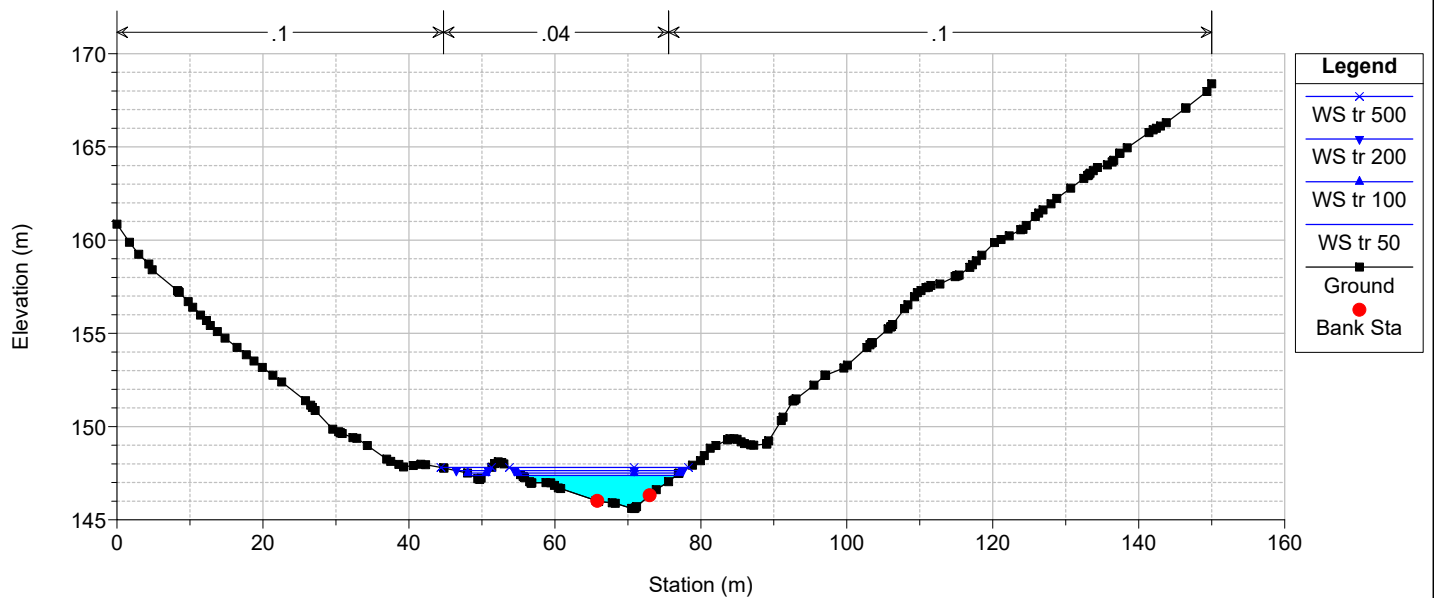
River = Sa Pedraia Reach = Asta RS = 4024.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

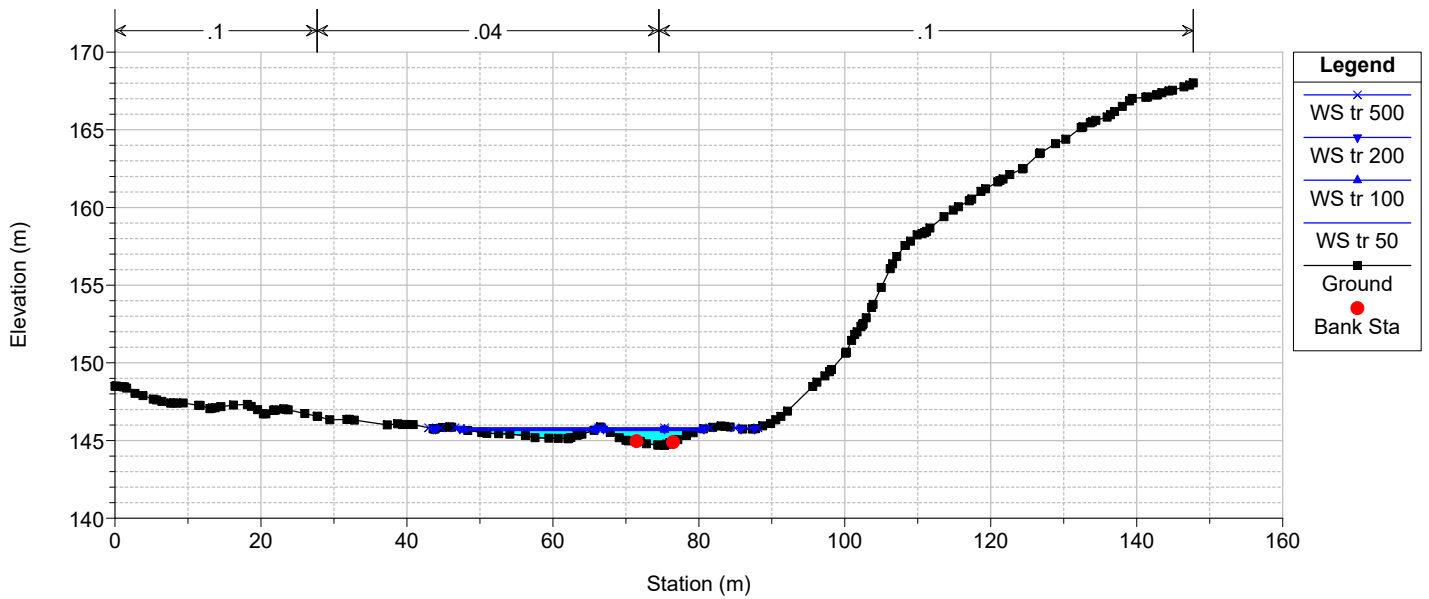
River = Sa Pedraia Reach = Asta RS = 3994.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

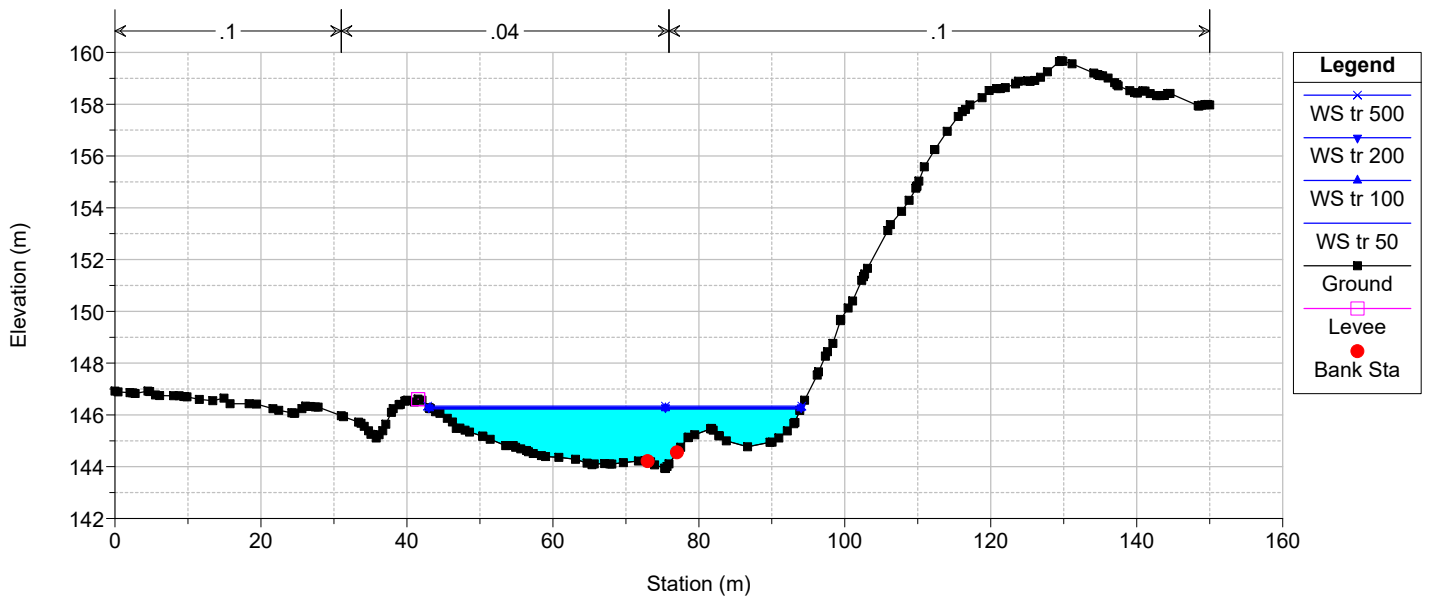
River = Sa Pedraia Reach = Asta RS = 3958.105 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

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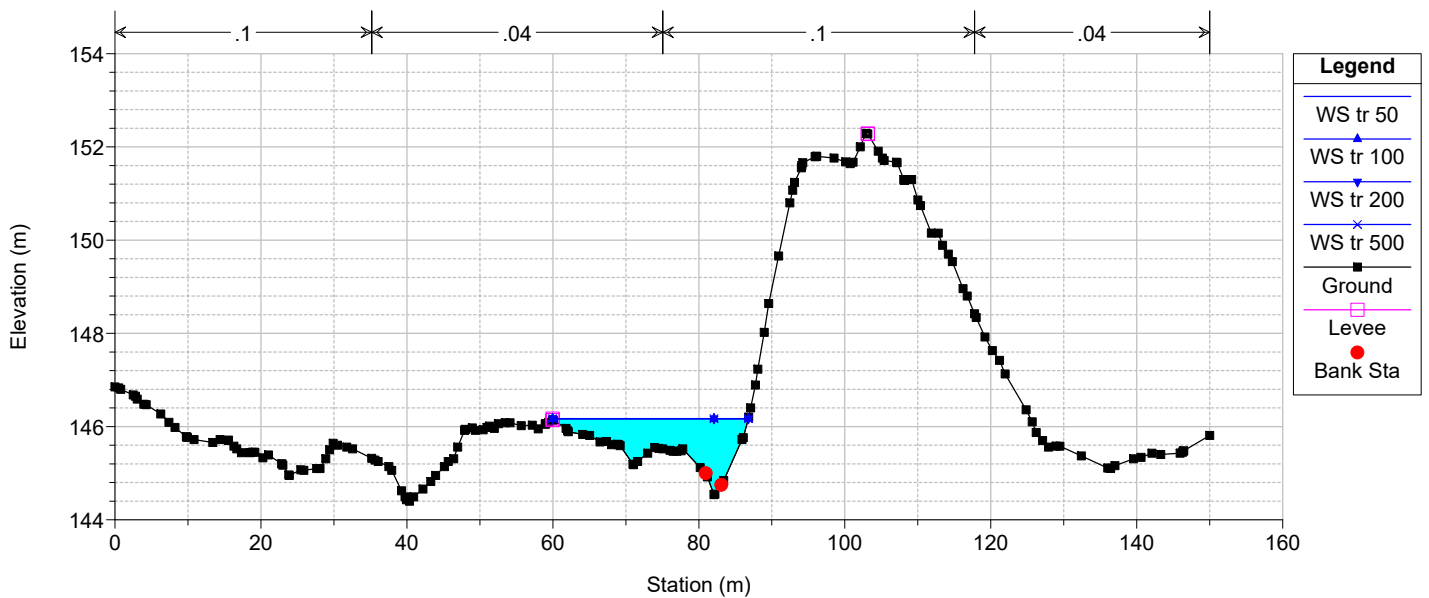
River = Sa Pedraia Reach = Asta RS = 3934.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

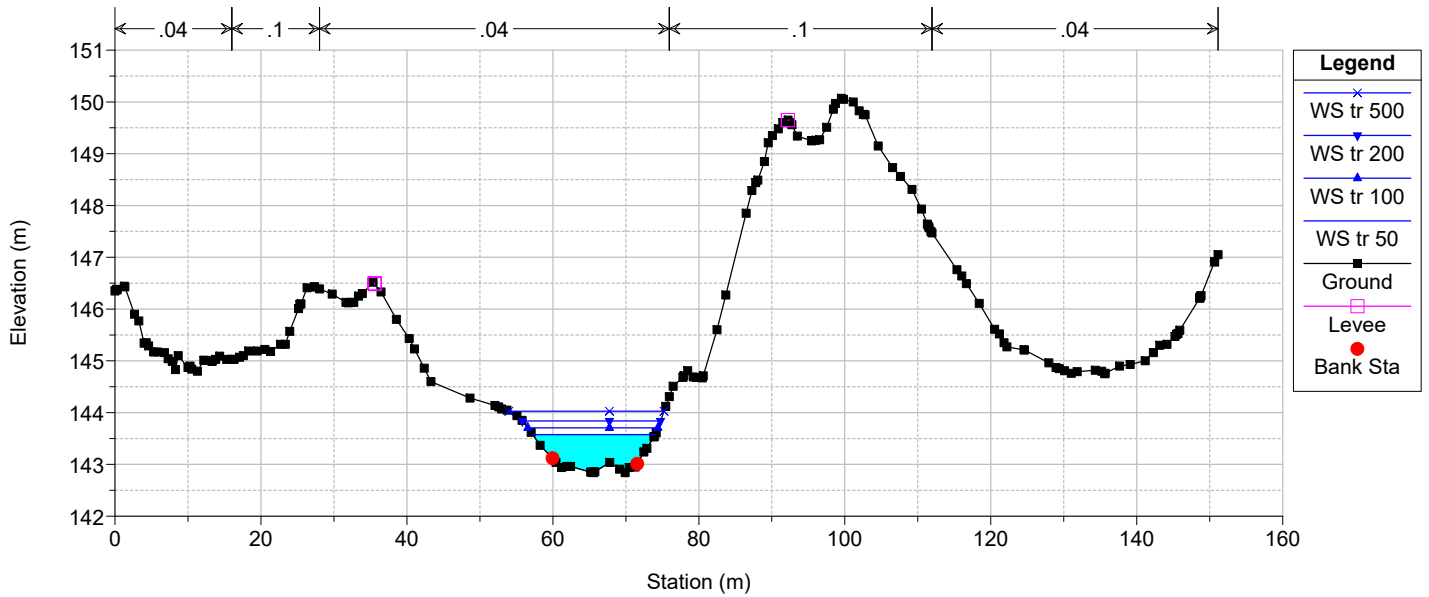
River = Sa Pedraia Reach = Asta RS = 3904.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

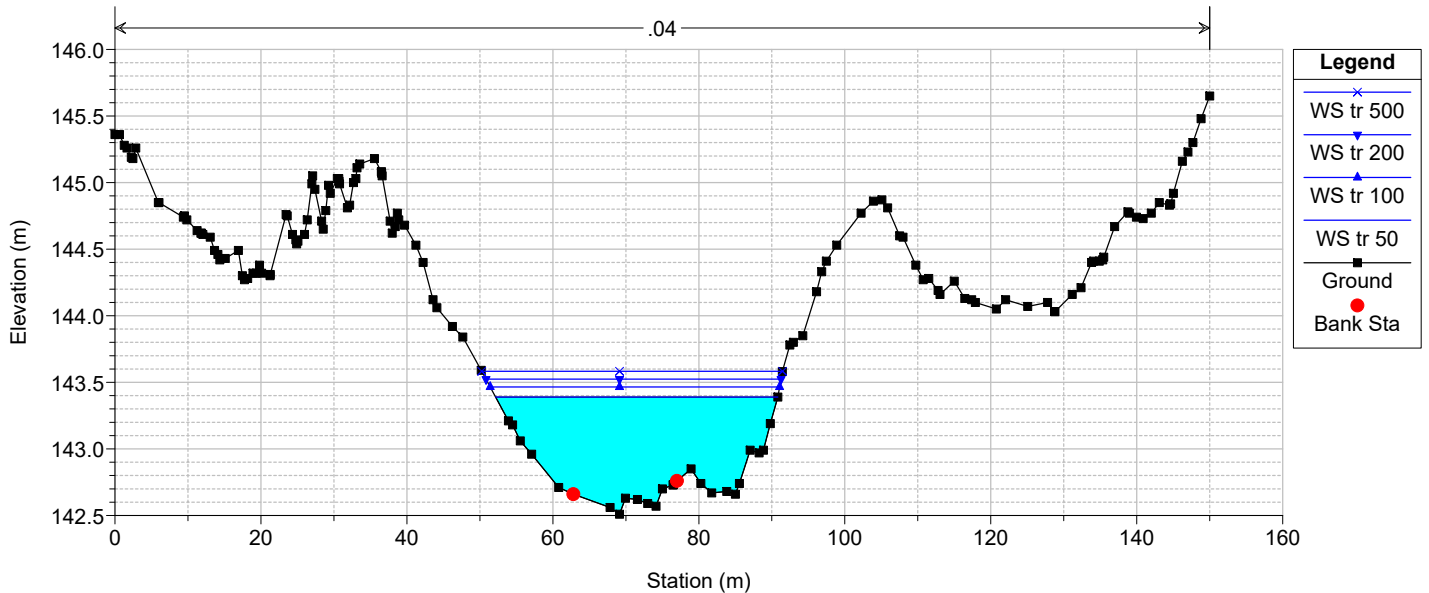
River = Sa Pedraia Reach = Asta RS = 3886.149 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

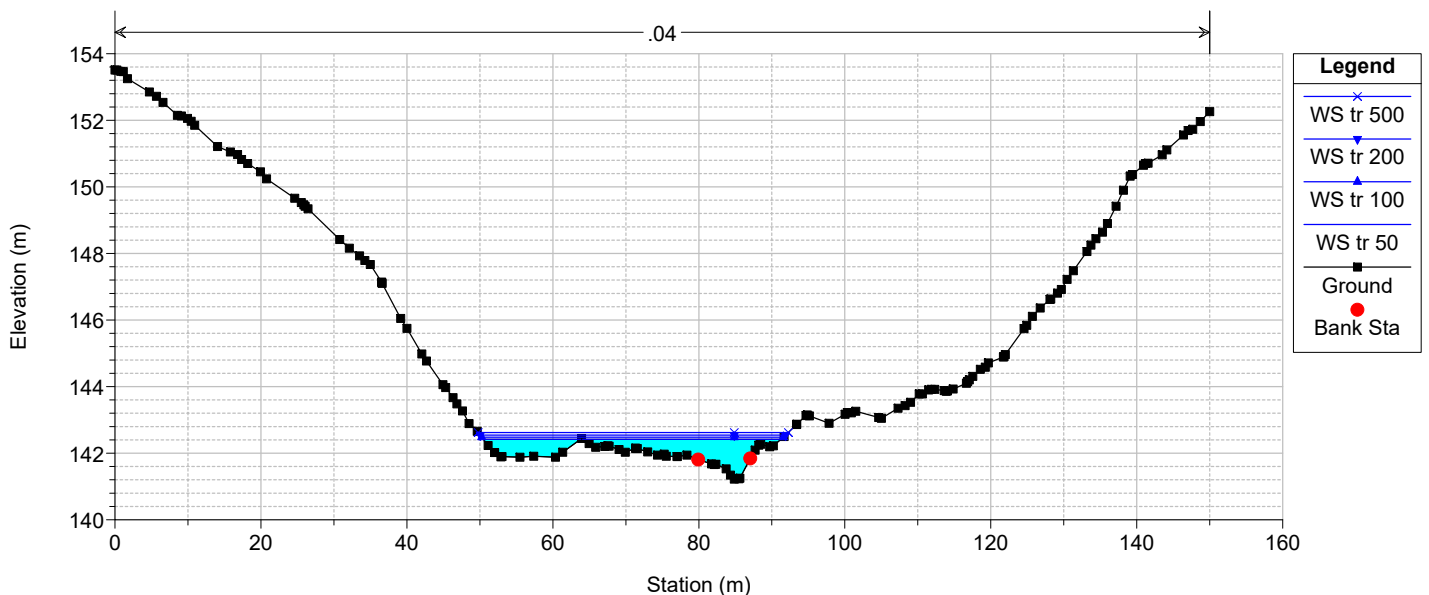
River = Sa Pedraia Reach = Asta RS = 3844.4 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

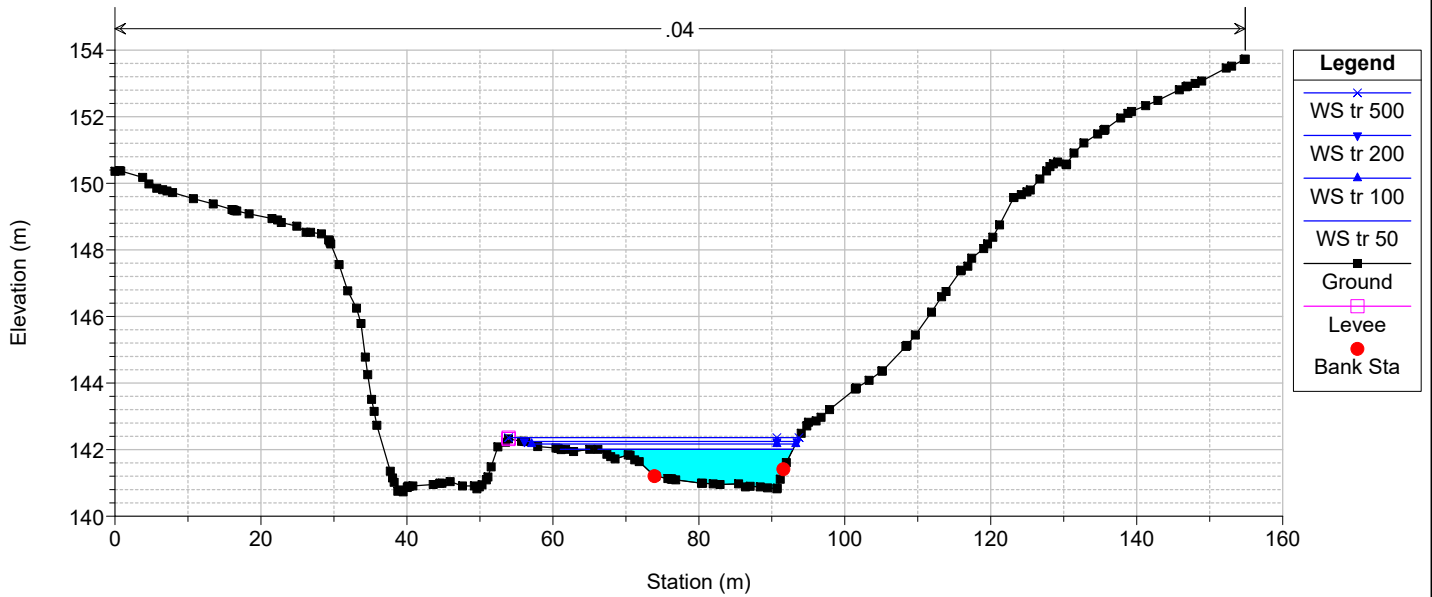
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sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

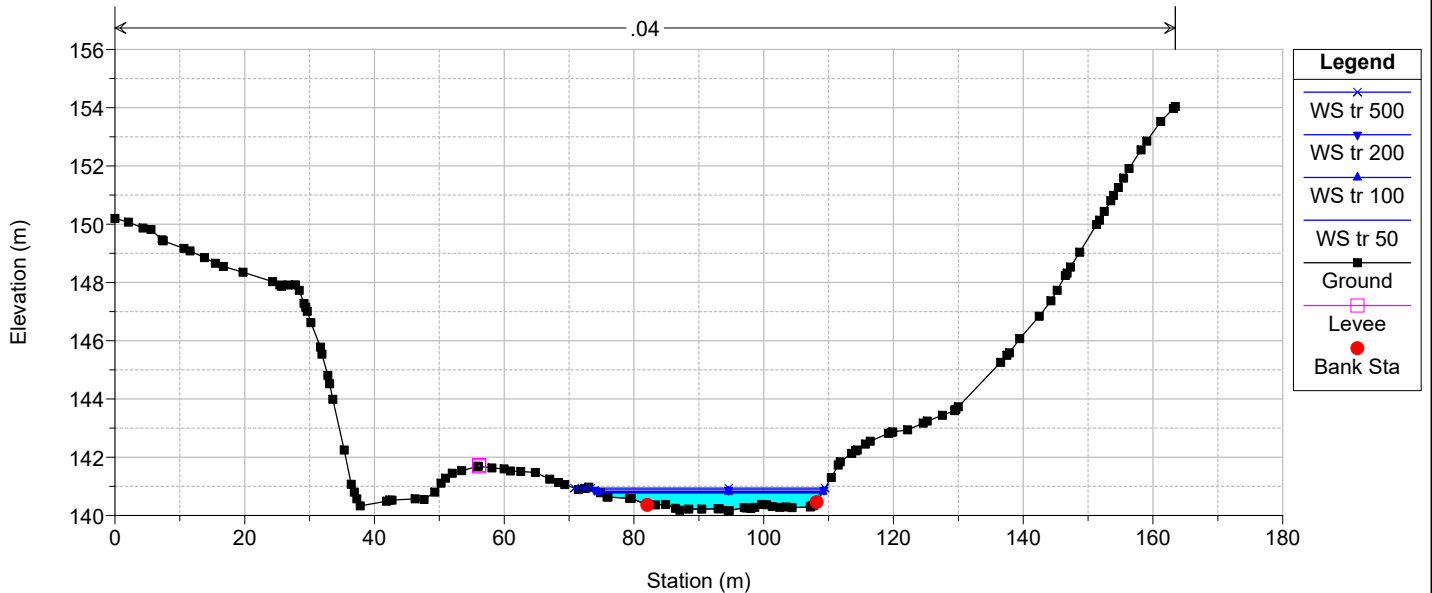
River = Sa Pedraia Reach = Asta RS = 3783.593 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

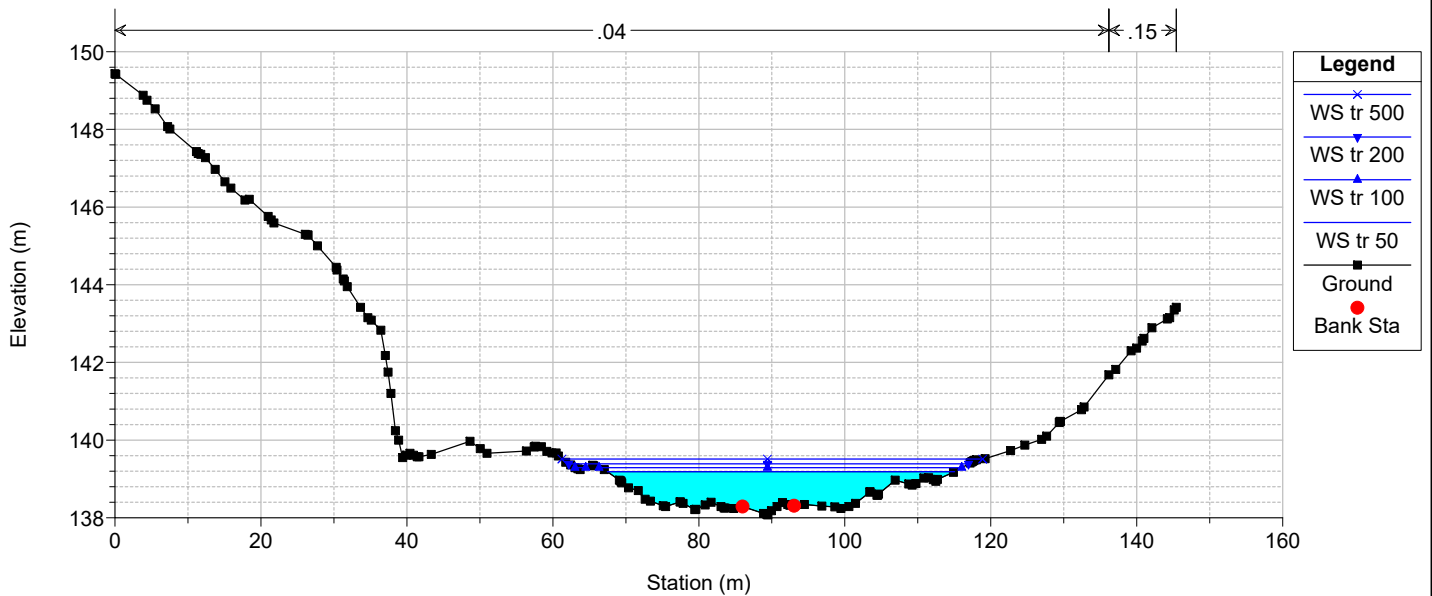
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sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

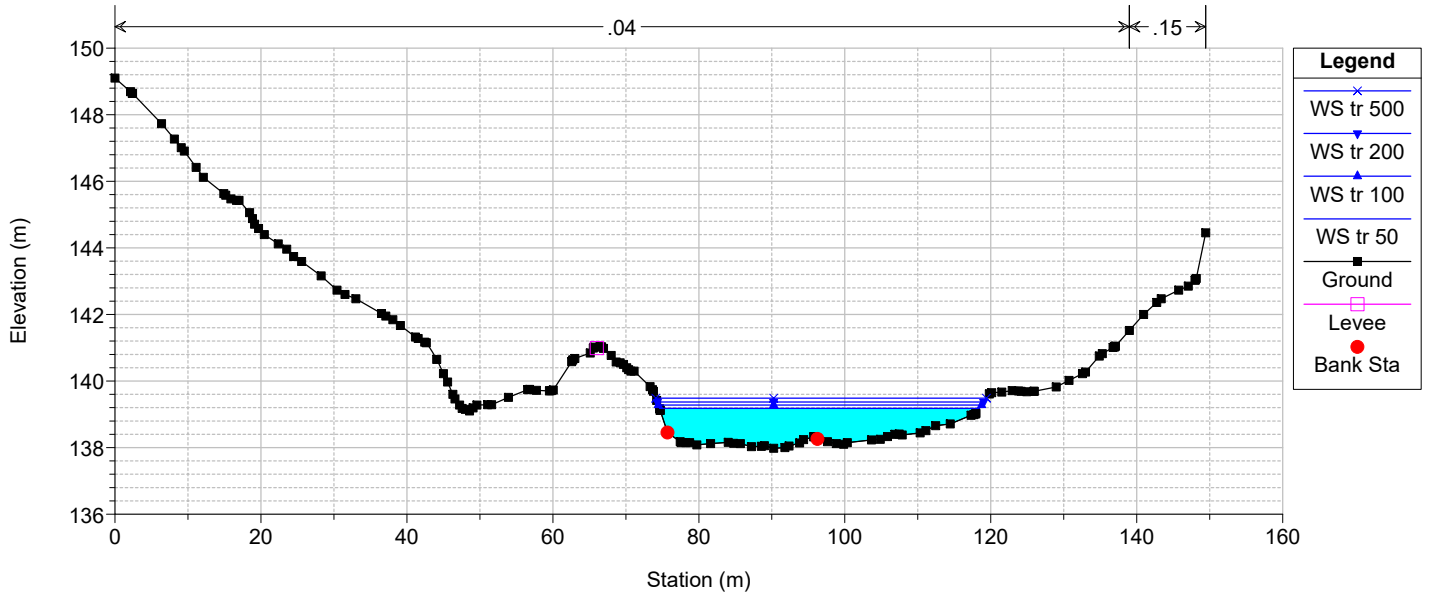
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sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

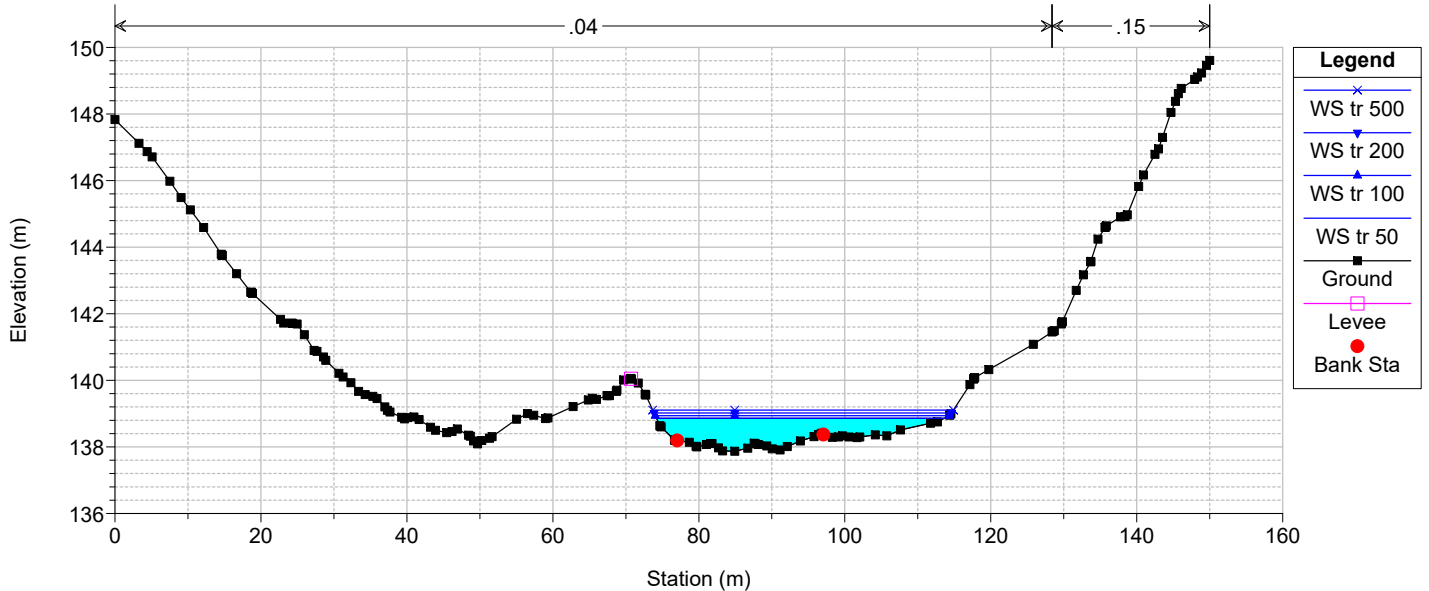
River = Sa Pedraia Reach = Asta RS = 3681.583 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

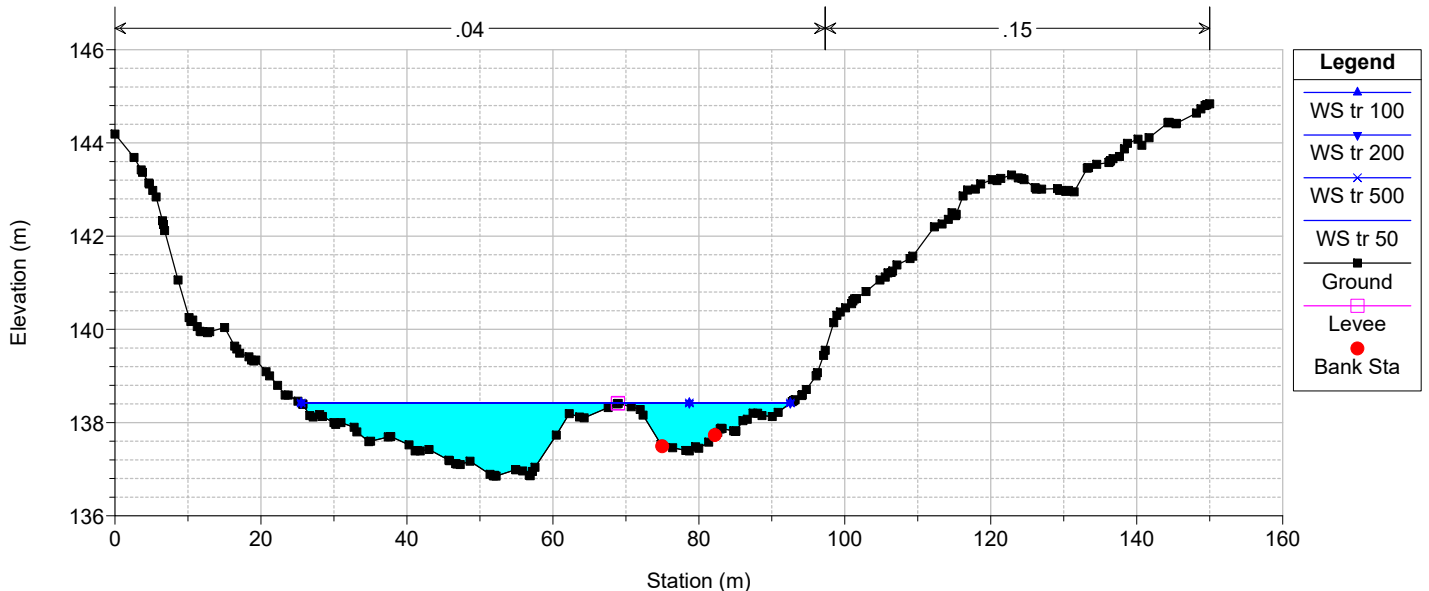
River = Sa Pedraia Reach = Asta RS = 3664.479 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

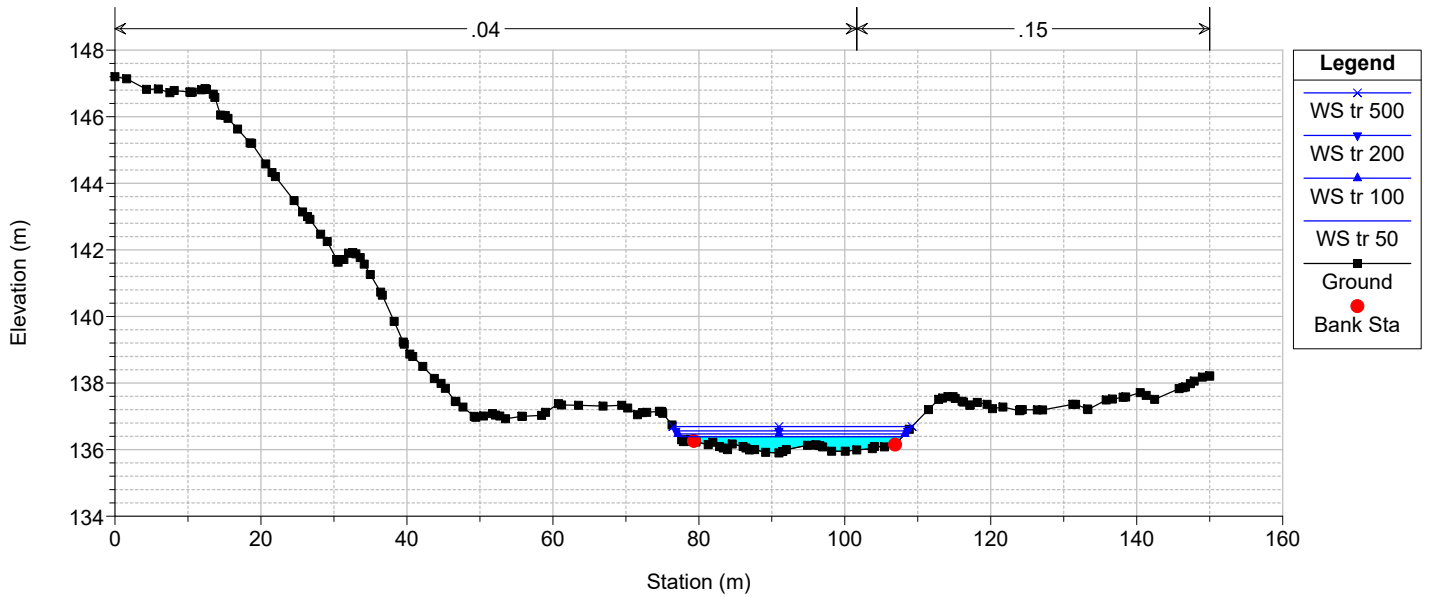
River = Sa Pedraia Reach = Asta RS = 3634.866 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

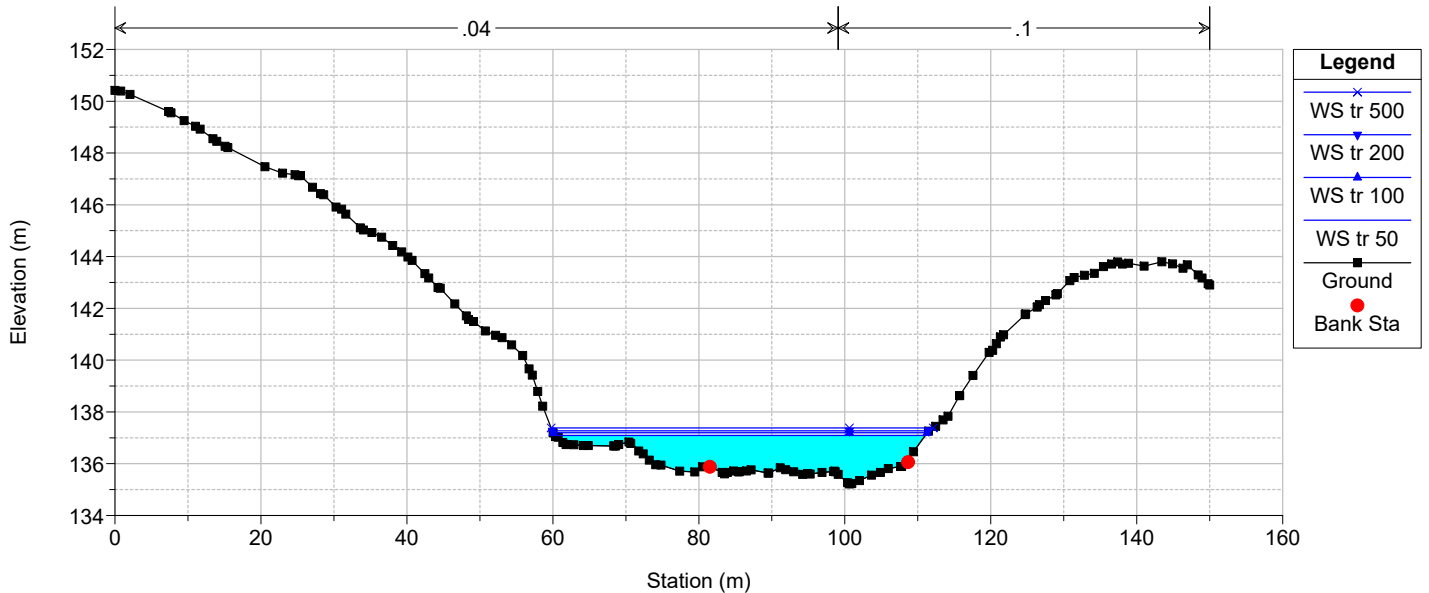
River = Sa Pedraia Reach = Asta RS = 3604.913 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

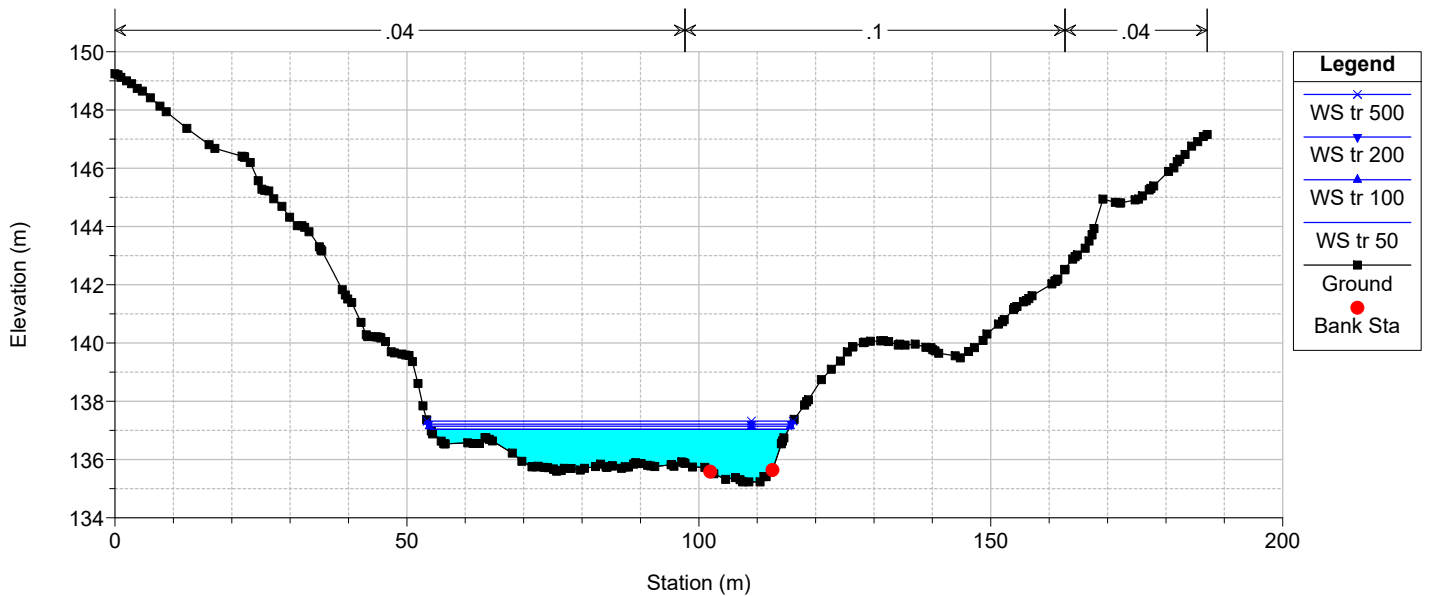
River = Sa Pedraia Reach = Asta RS = 3574.834 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

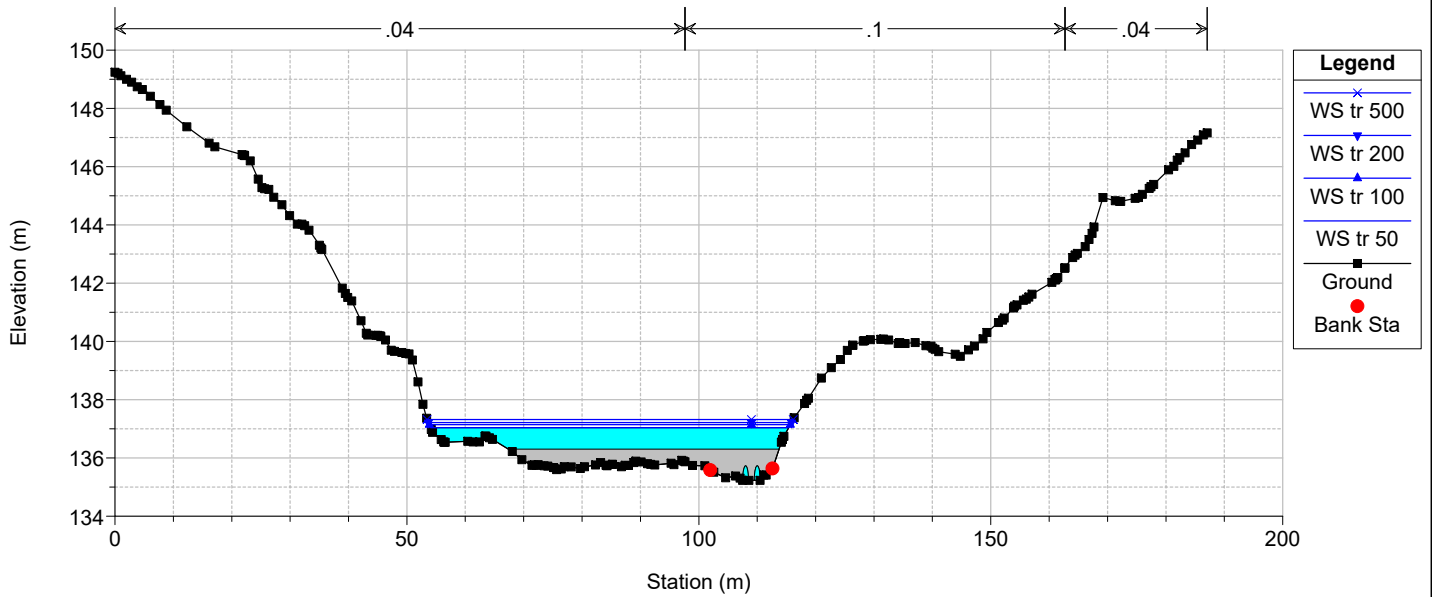
River = Sa Pedraia Reach = Asta RS = 3534.099 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

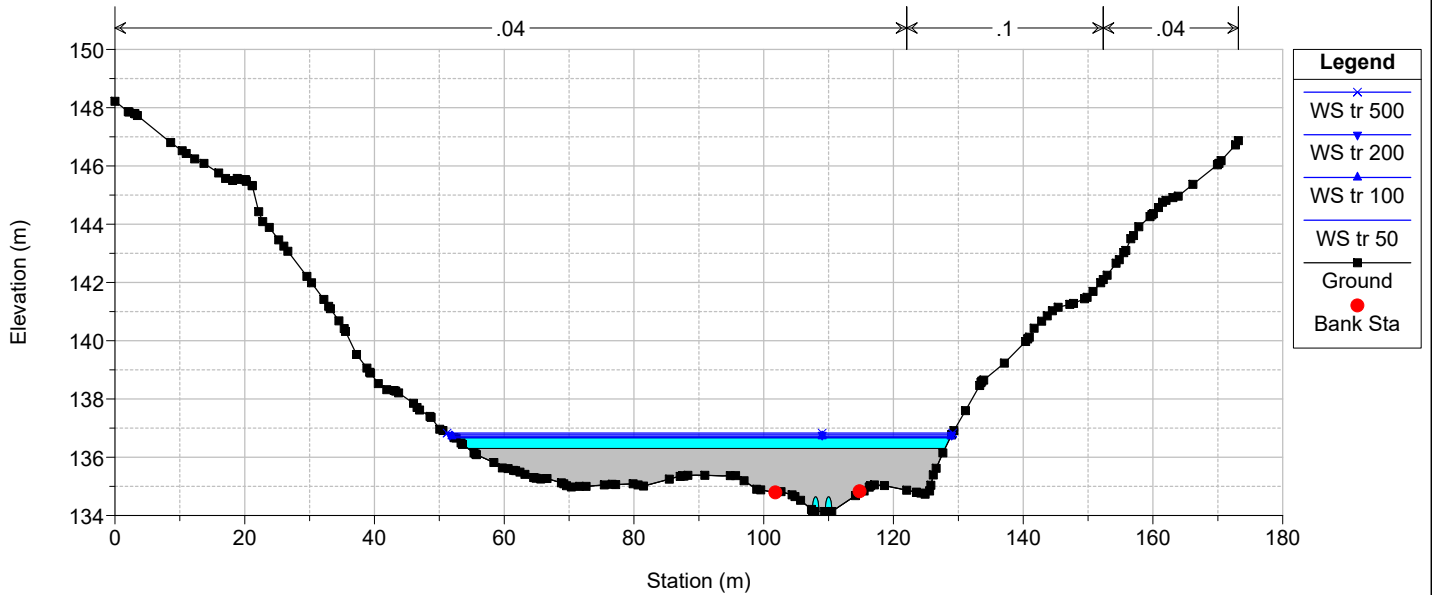
River = Sa Pedraia Reach = Asta RS = 3511.08 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

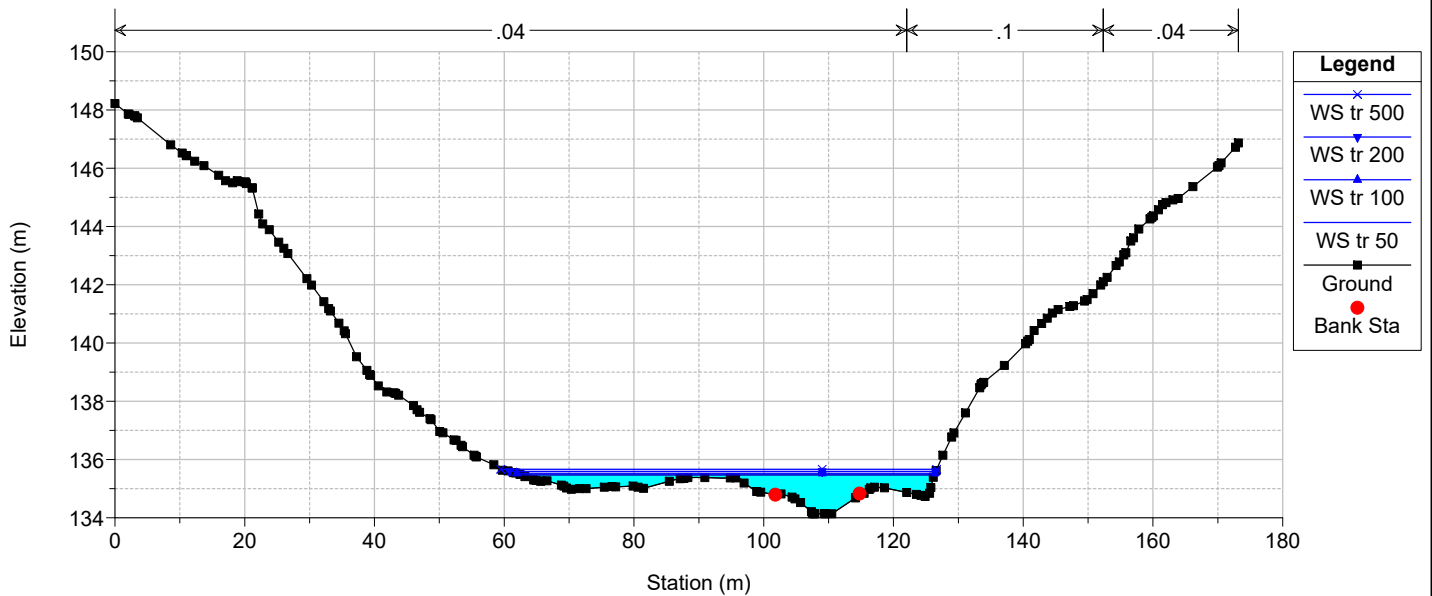
River = Sa Pedraia Reach = Asta RS = 3511.08 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

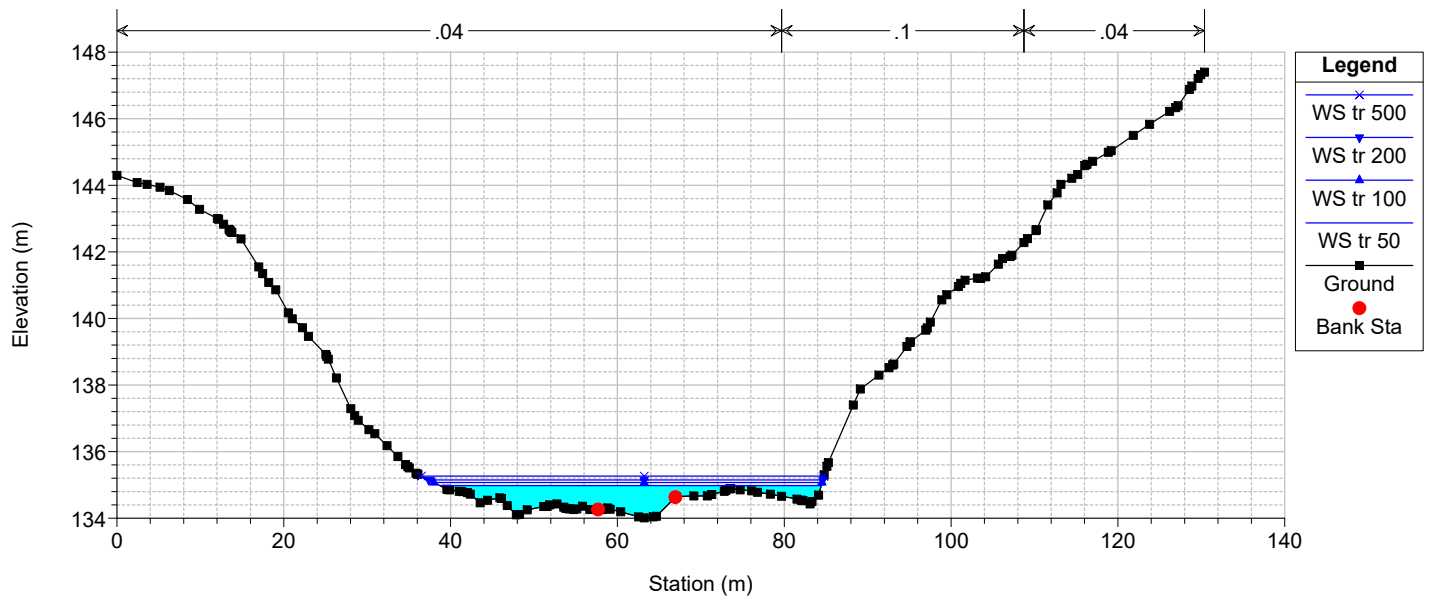
River = Sa Pedraia Reach = Asta RS = 3498.834 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

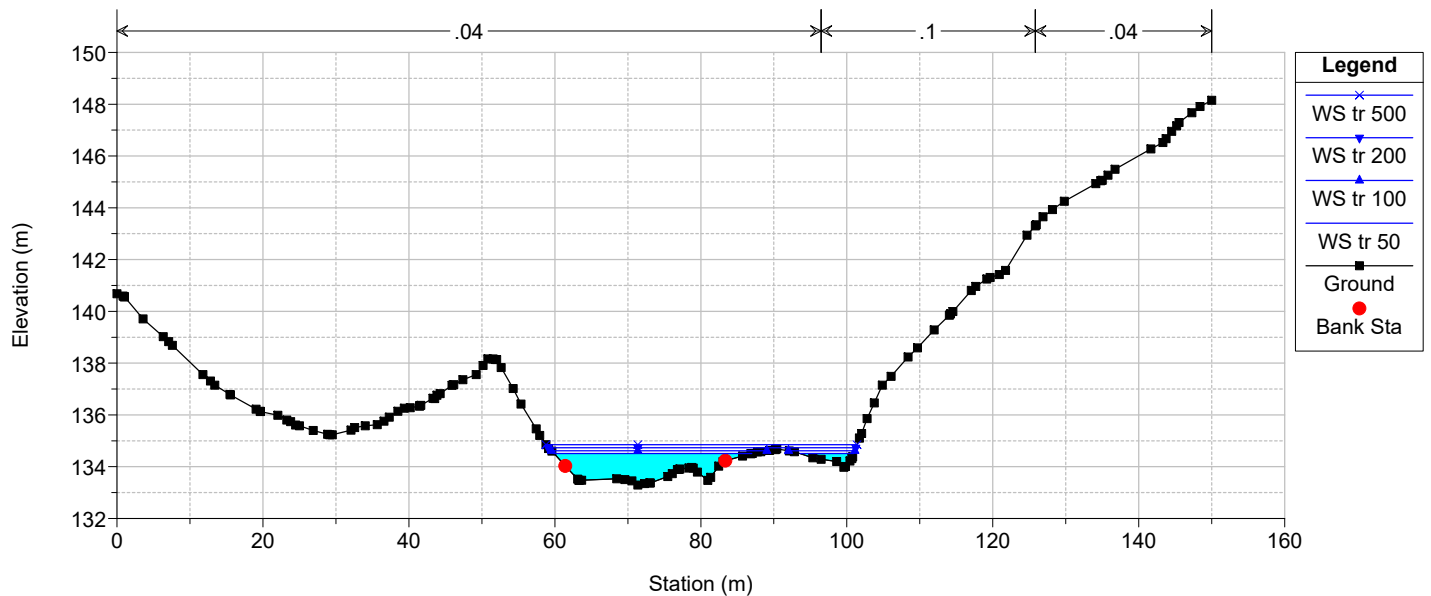
River = Sa Pedraia Reach = Asta RS = 3478.686 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

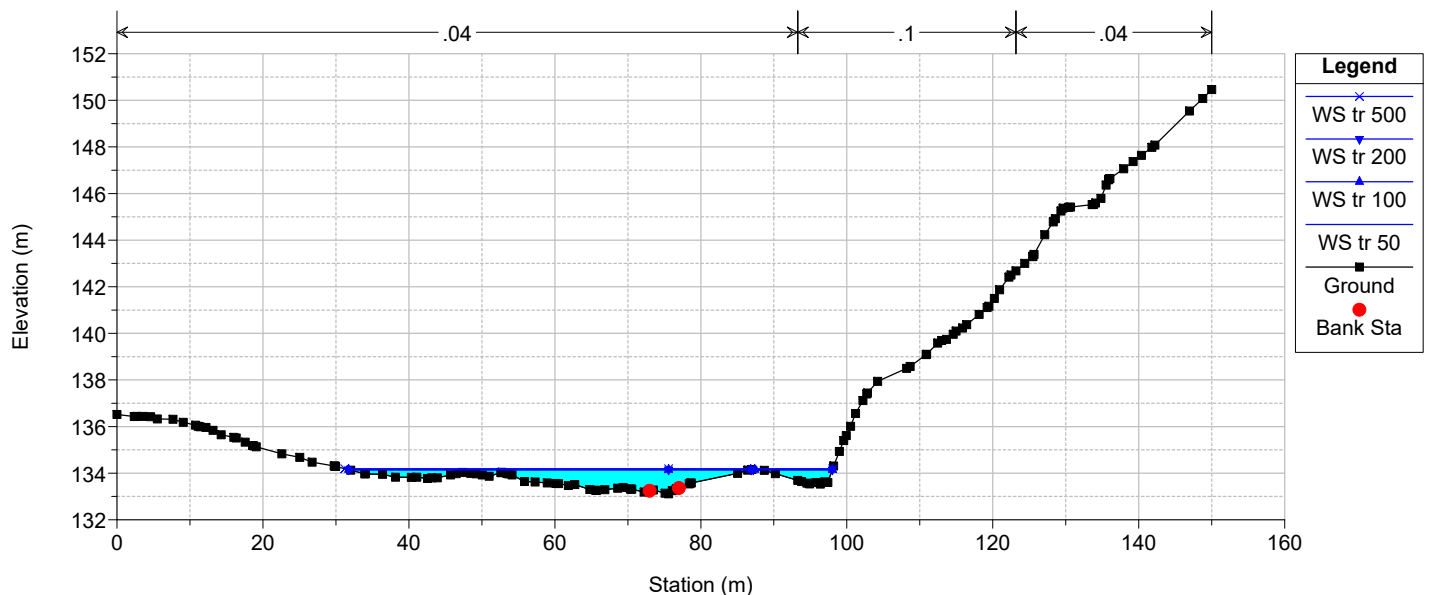
River = Sa Pedraia Reach = Asta RS = 3450 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

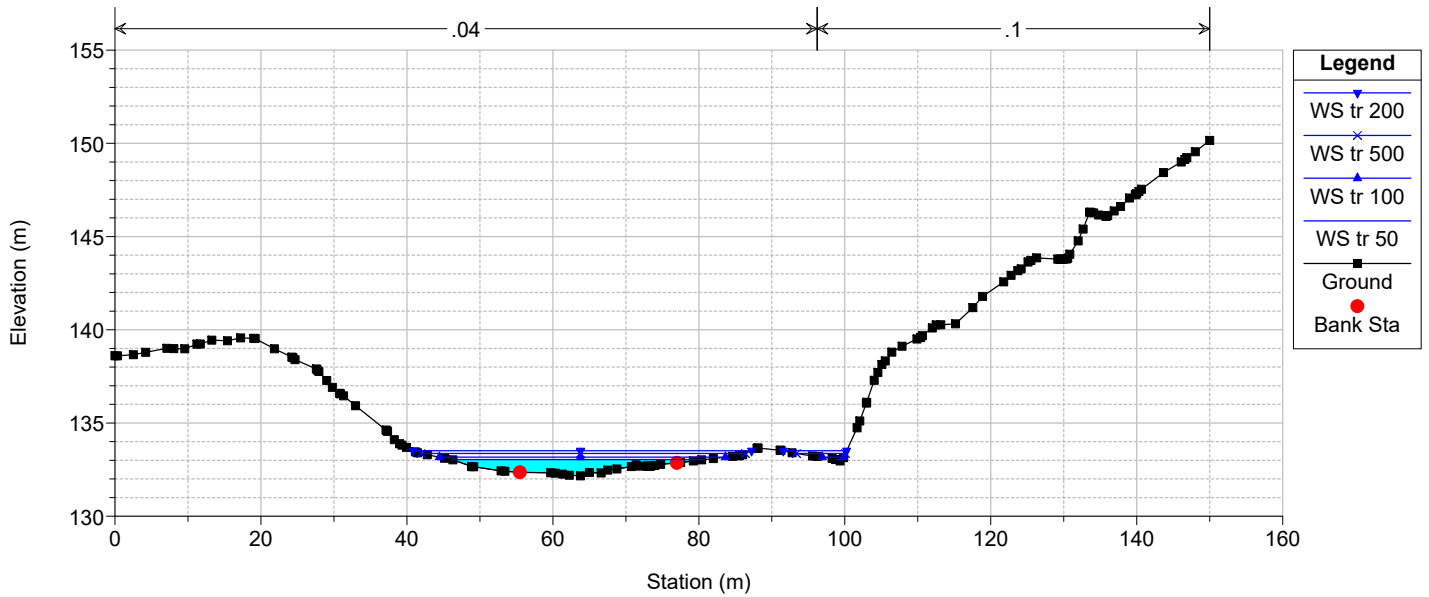
River = Sa Pedraia Reach = Asta RS = 3420 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

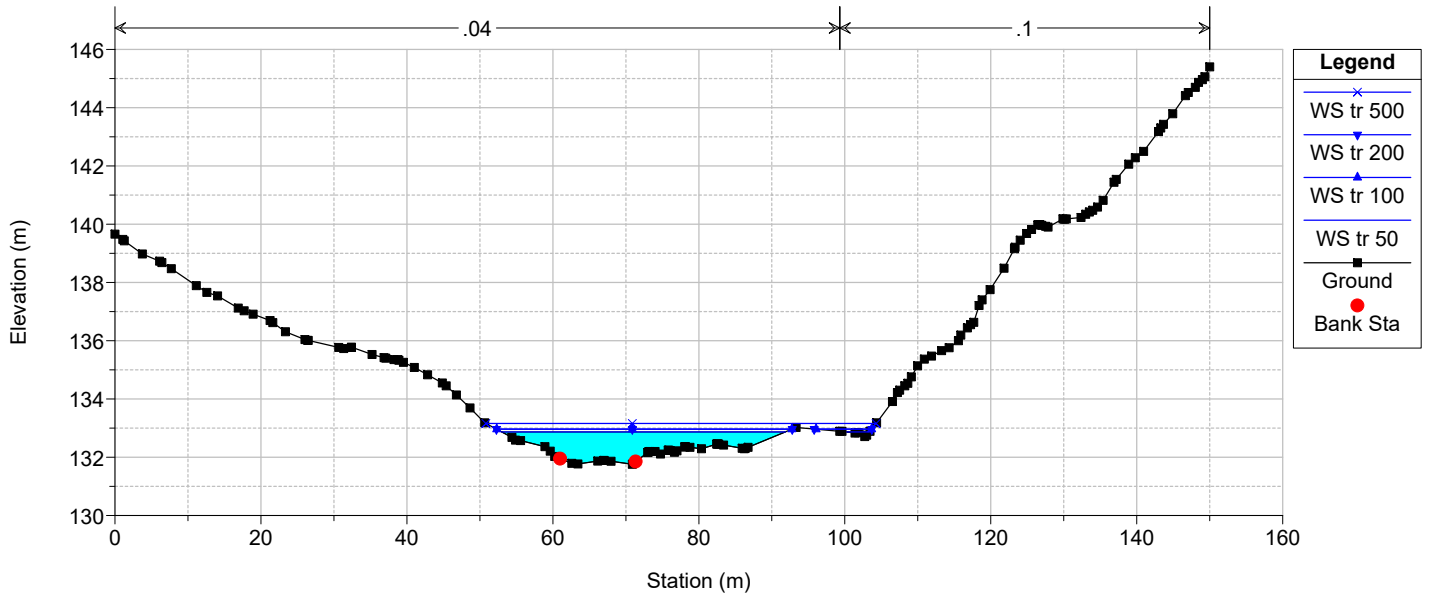
River = Sa Pedraia Reach = Asta RS = 3390 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

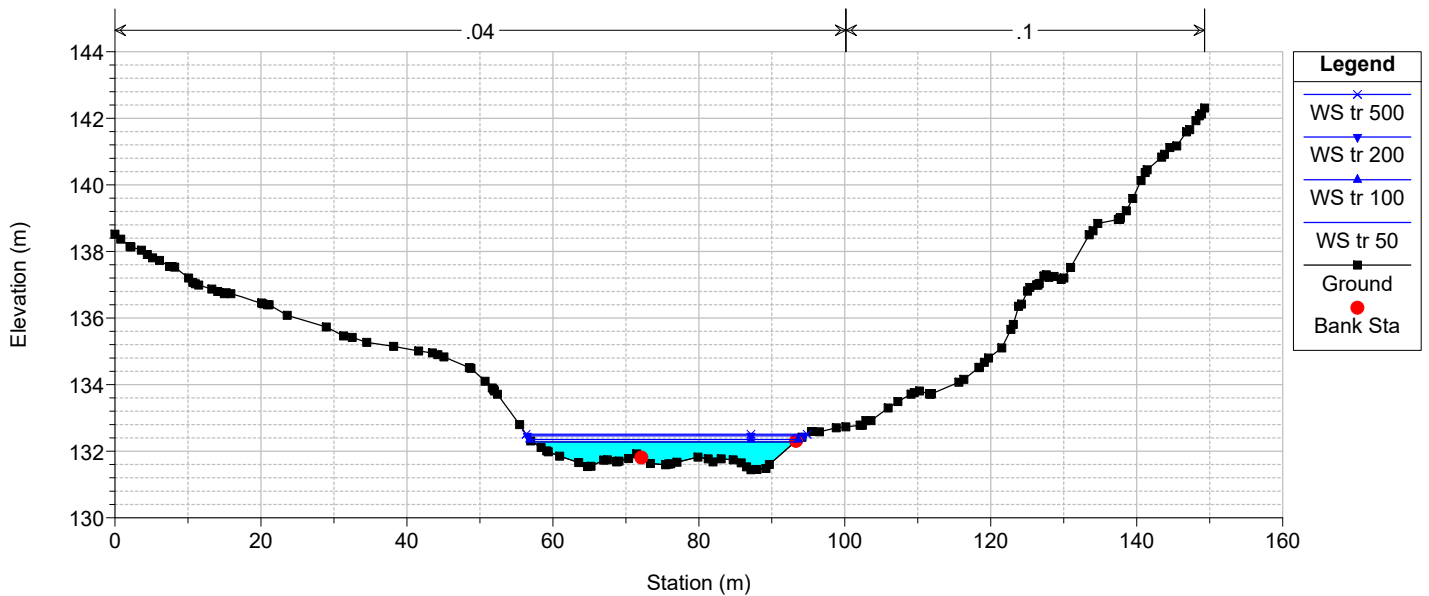
River = Sa Pedraia Reach = Asta RS = 3360 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

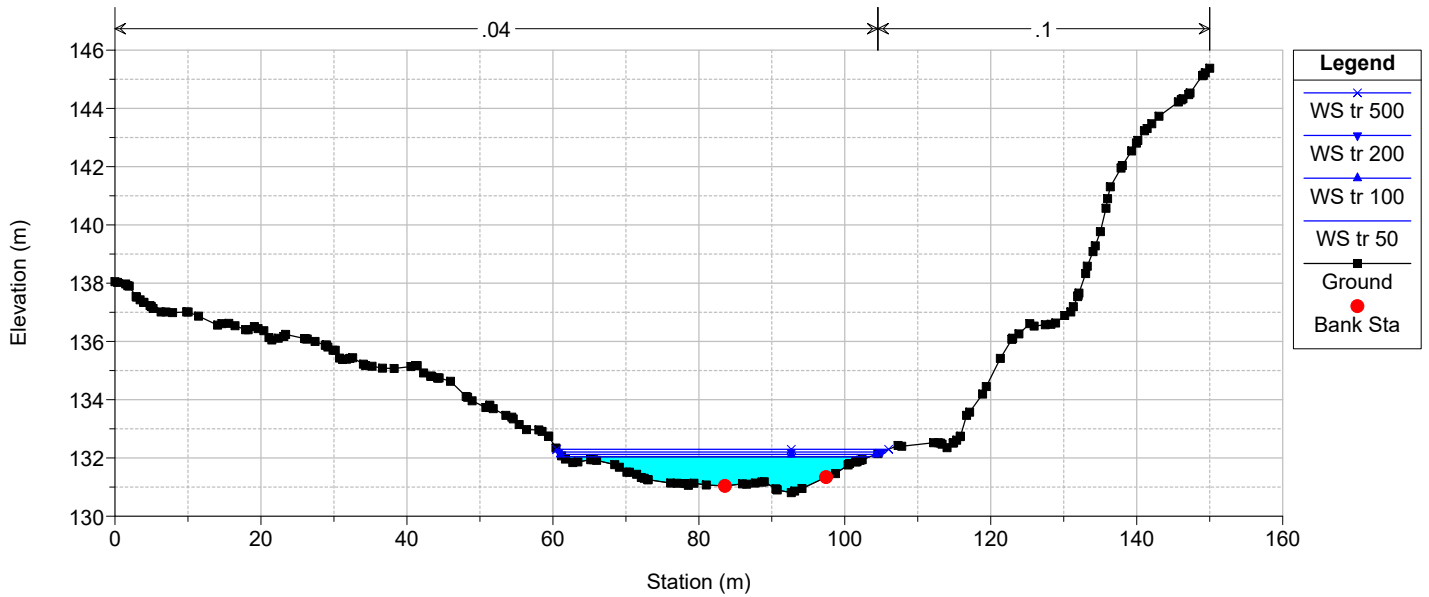
River = Sa Pedraia Reach = Asta RS = 3334.736 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

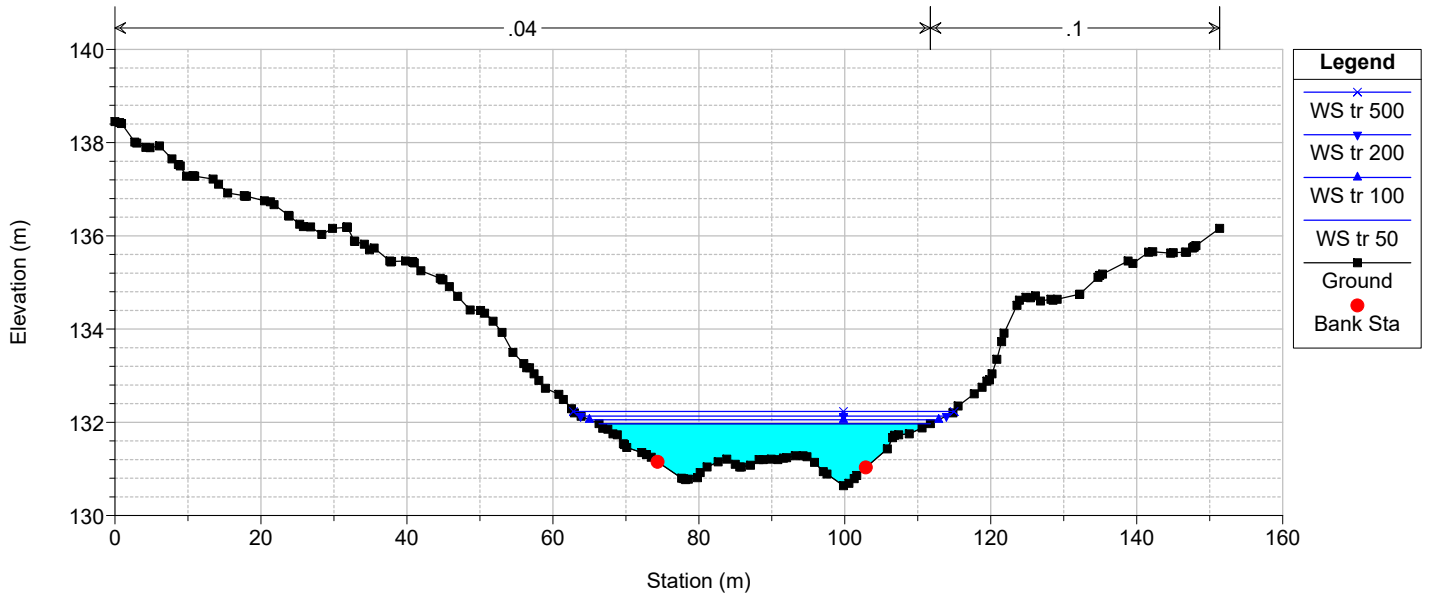
River = Sa Pedraia Reach = Asta RS = 3300 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

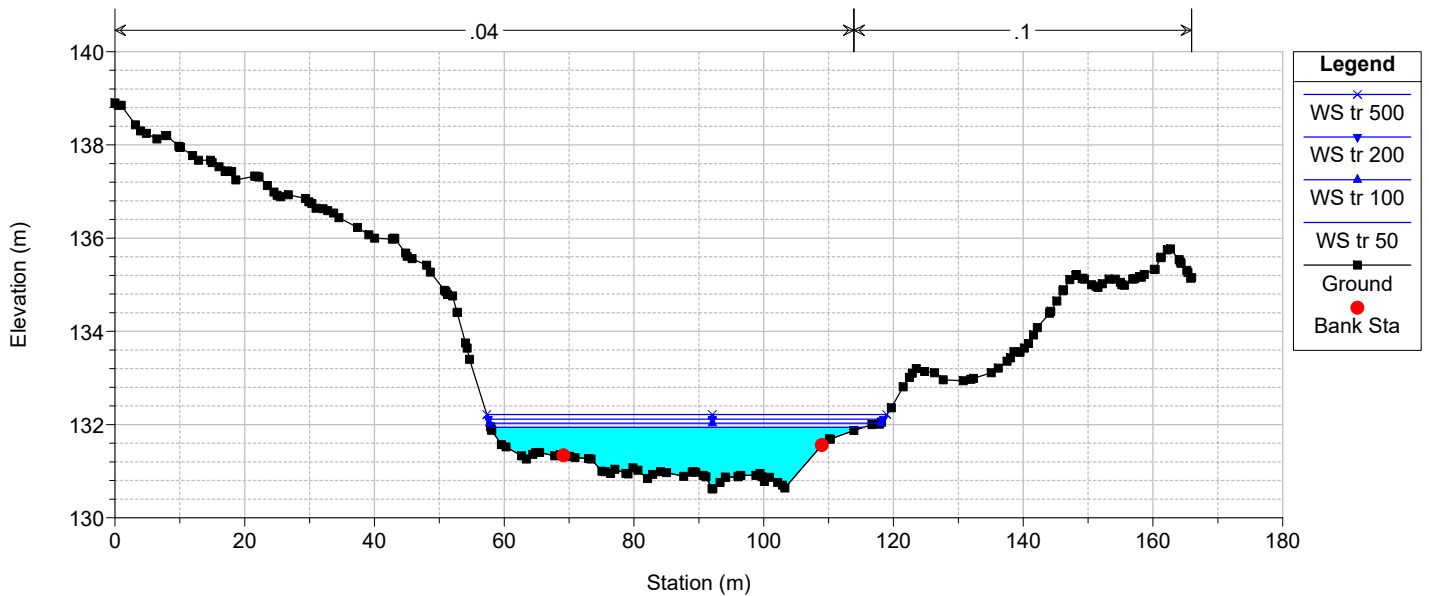
River = Sa Pedraia Reach = Asta RS = 3284.01 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

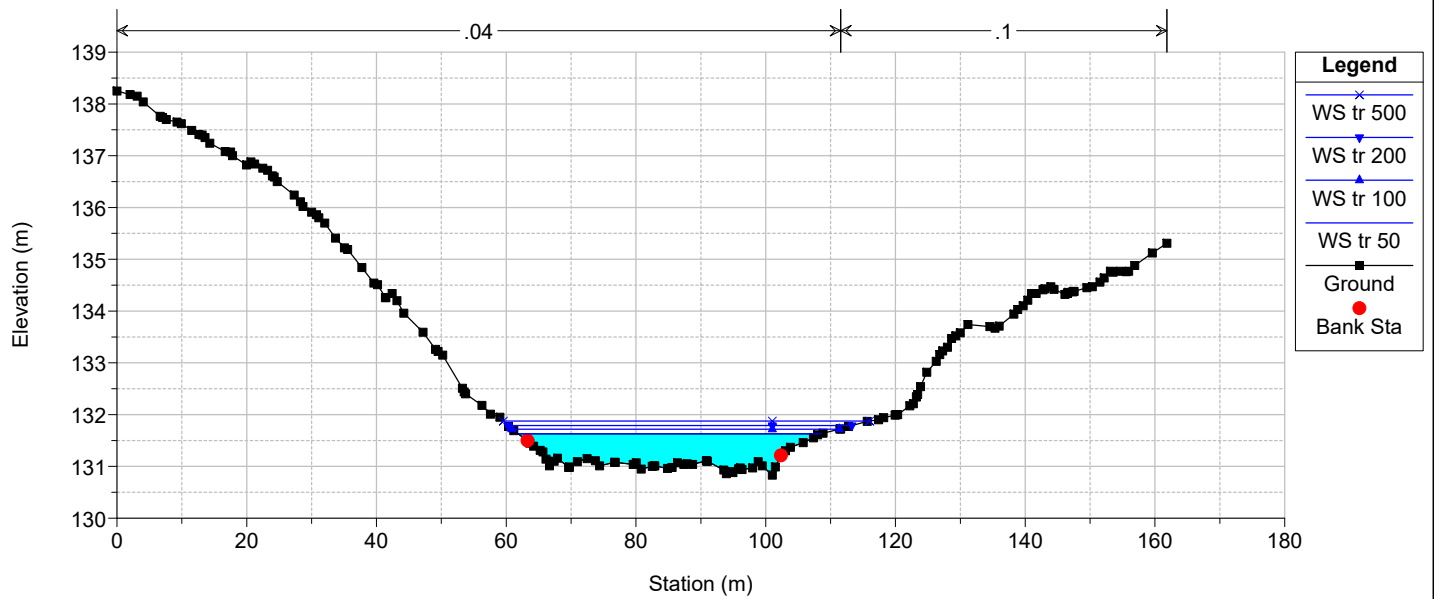
River = Sa Pedraia Reach = Asta RS = 3264.604 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

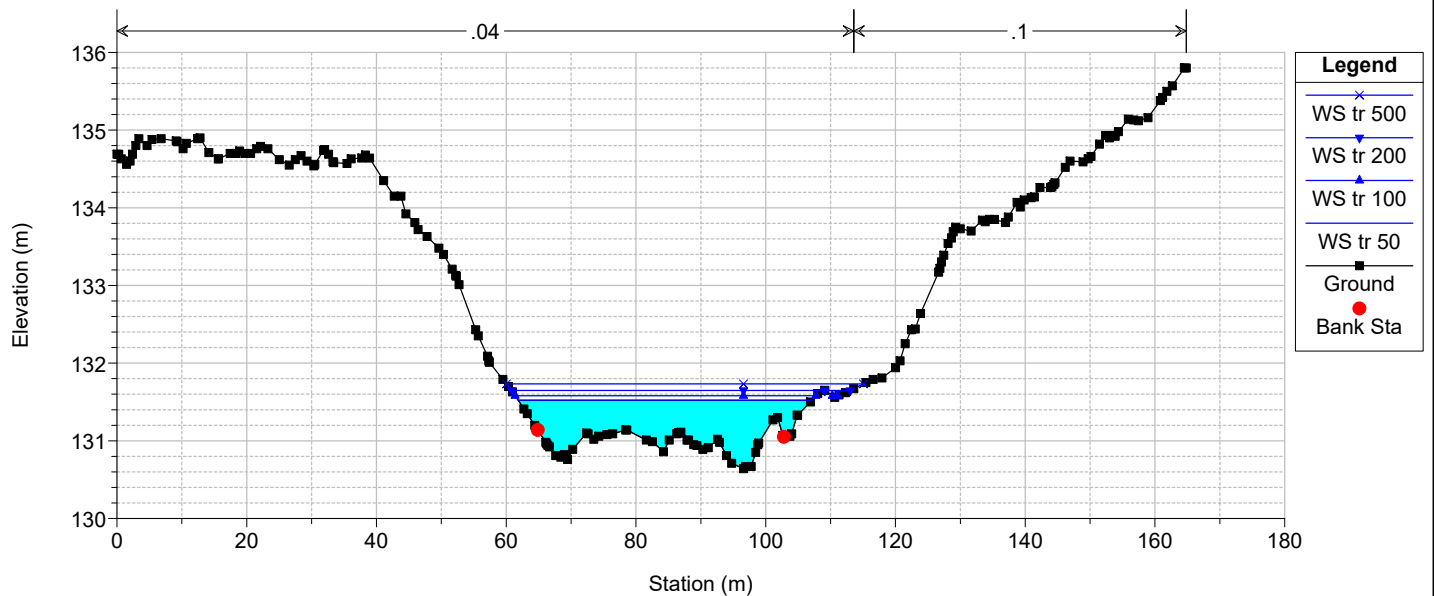
River = Sa Pedraia Reach = Asta RS = 3248.033 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

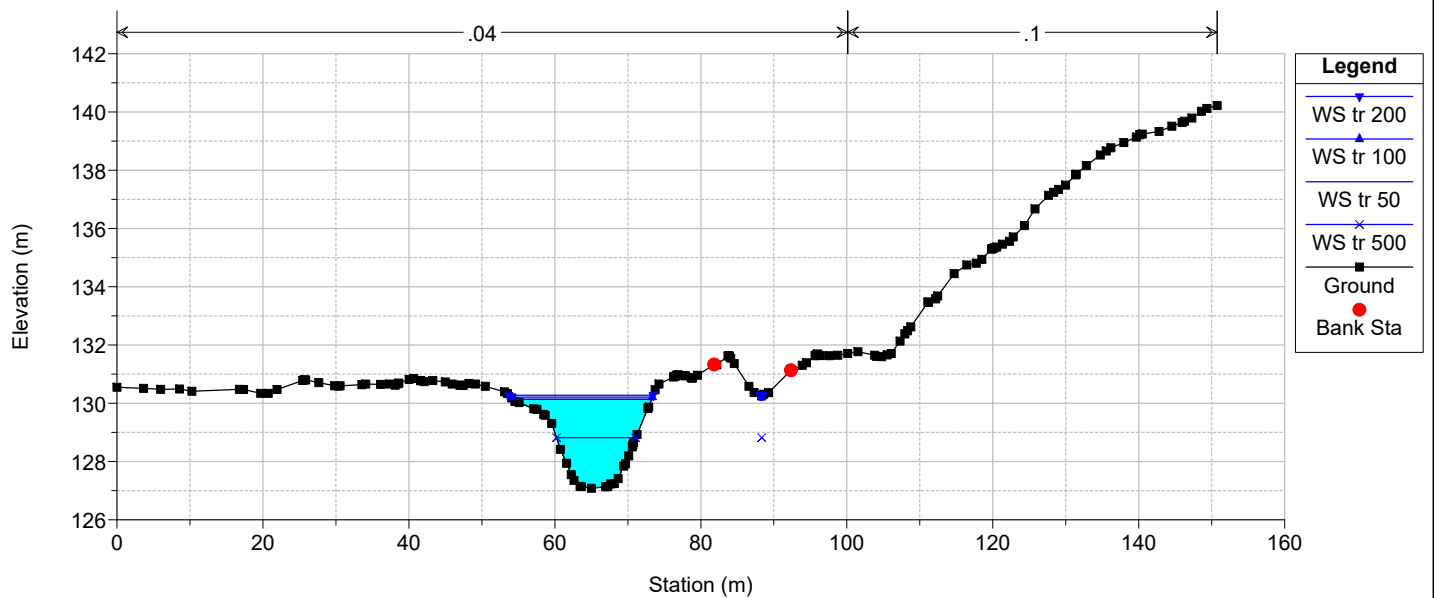
River = Sa Pedraia Reach = Asta RS = 3244.878 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

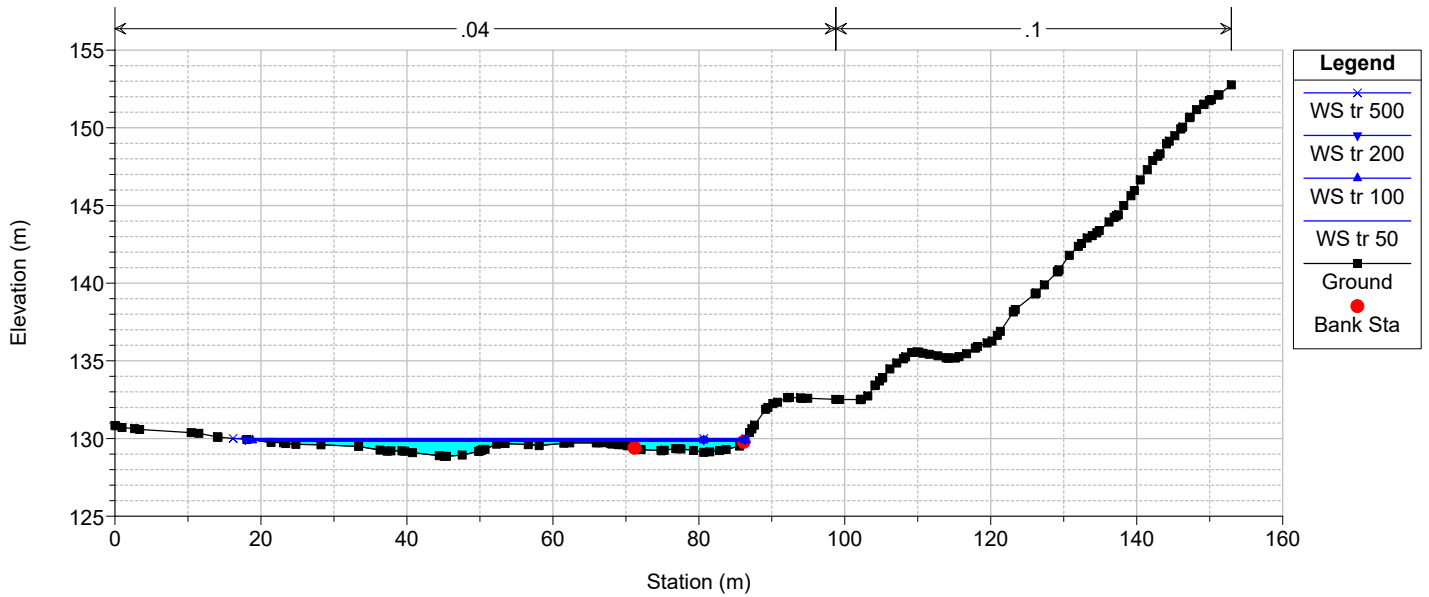
River = Sa Pedraia Reach = Asta RS = 3217.135 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

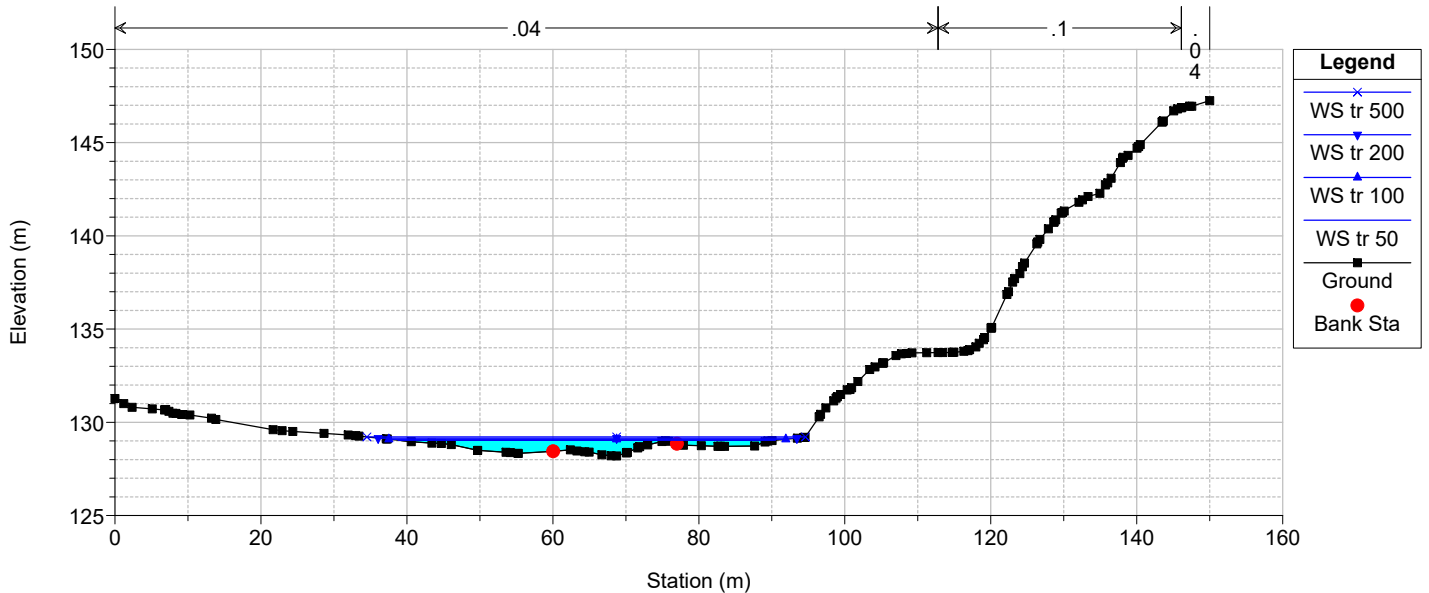
River = Sa Pedraia Reach = Asta RS = 3175.295 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

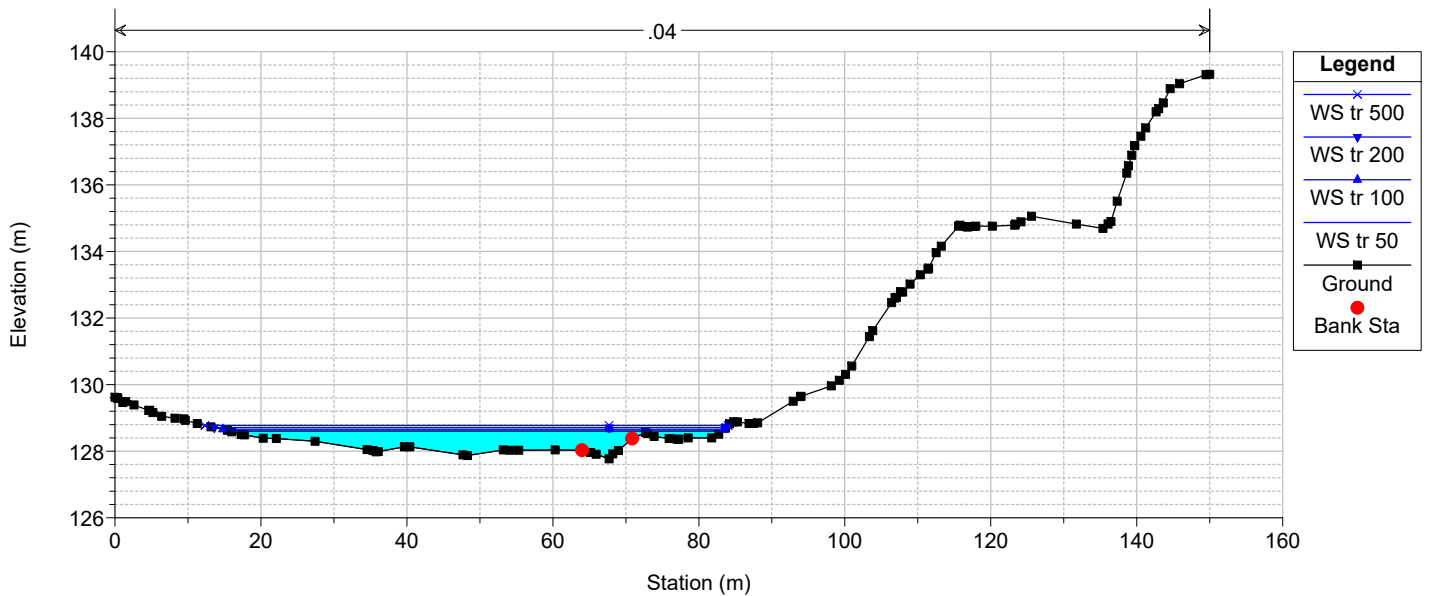
River = Sa Pedraia Reach = Asta RS = 3150 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

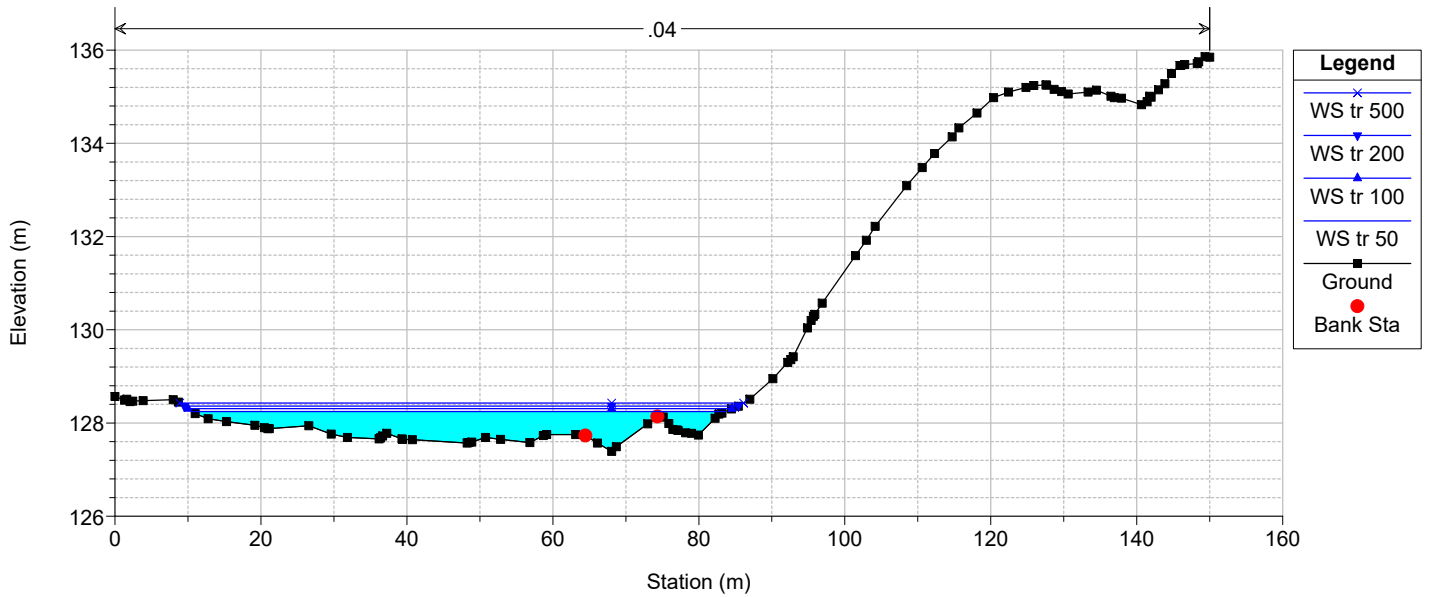
River = Sa Pedraia Reach = Asta RS = 3120 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

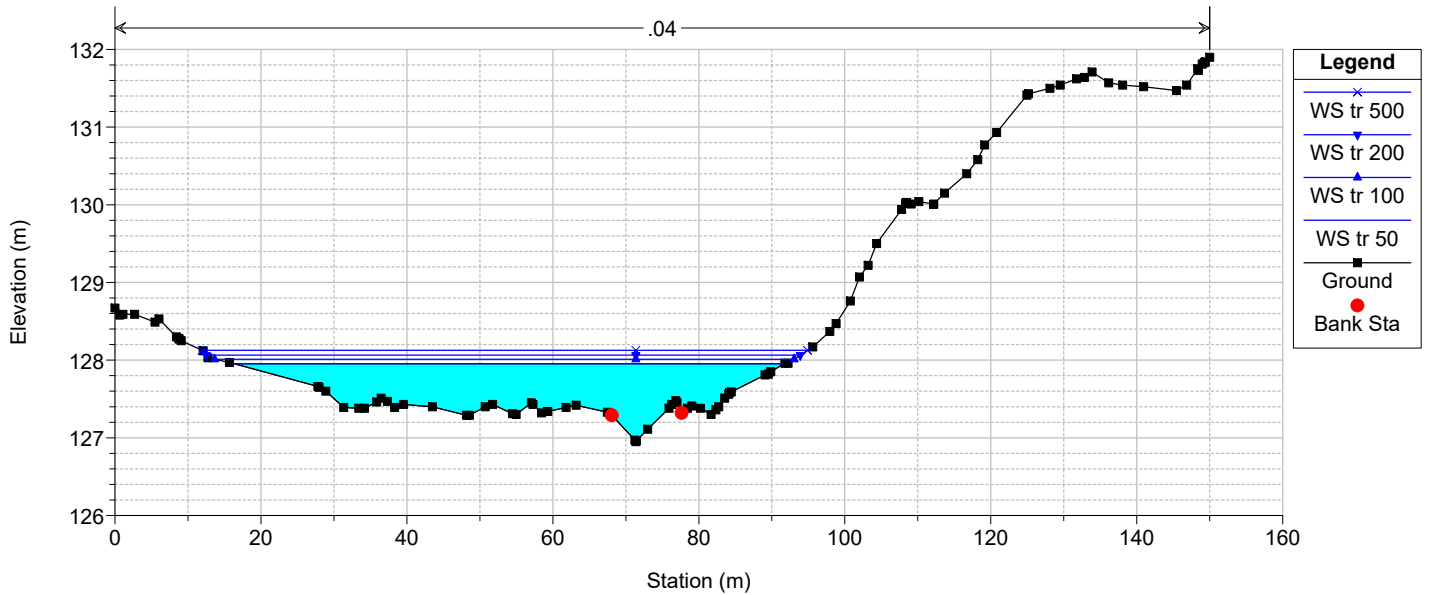
River = Sa Pedraia Reach = Asta RS = 3090 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

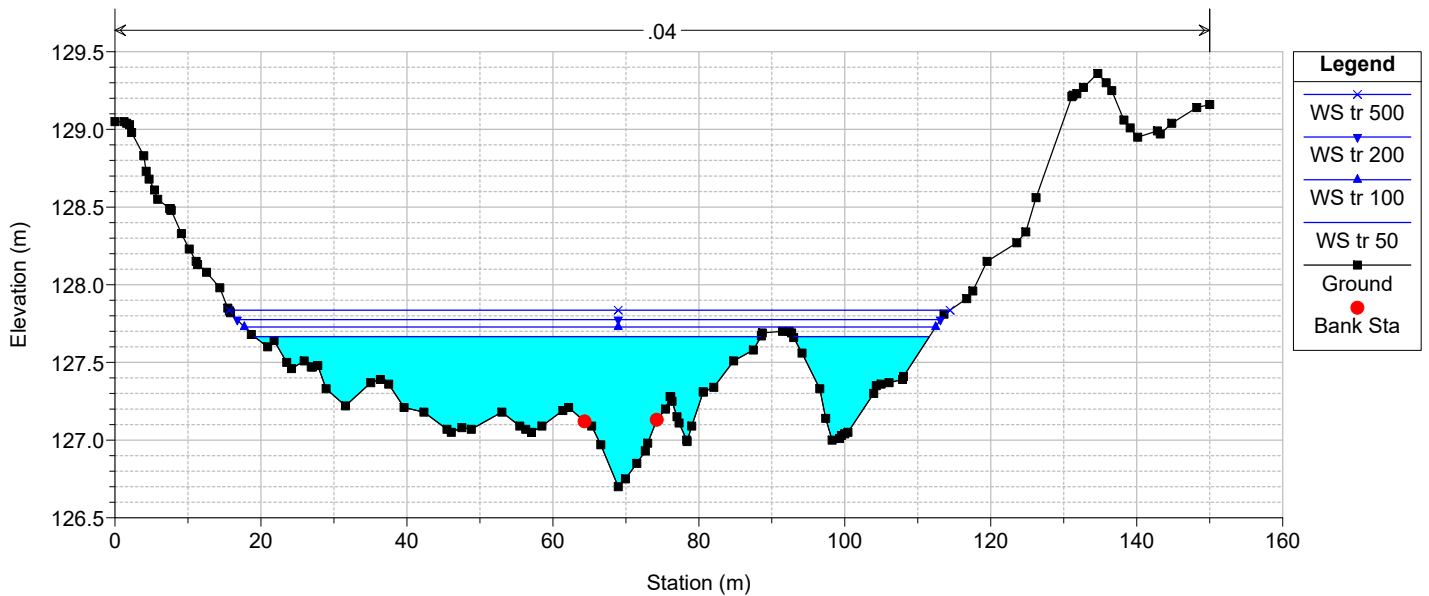
River = Sa Pedraia Reach = Asta RS = 3060 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

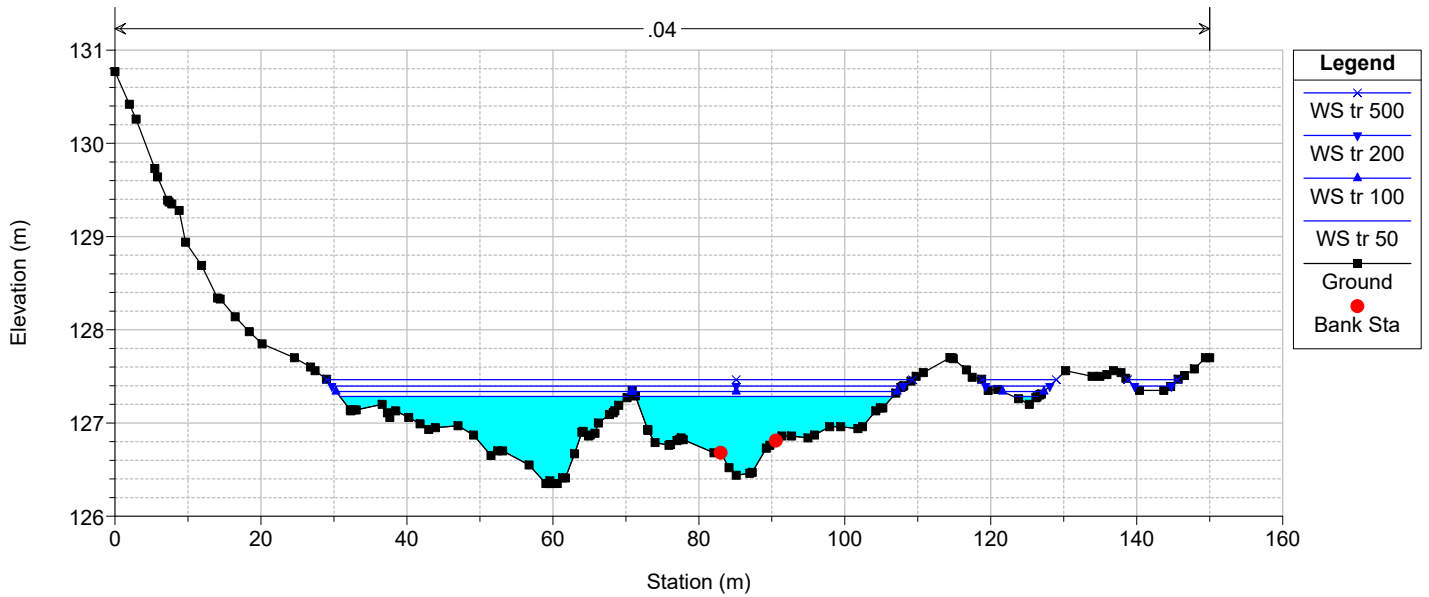
River = Sa Pedraia Reach = Asta RS = 3030 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

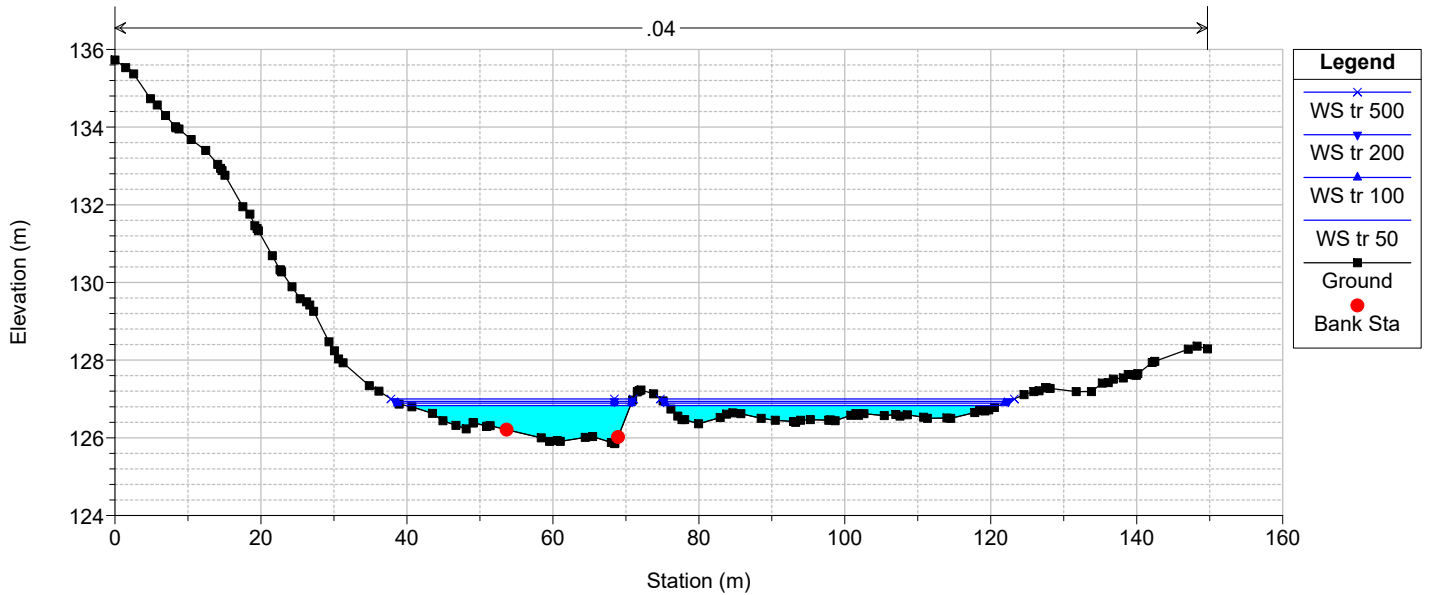
River = Sa Pedraia Reach = Asta RS = 3000 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

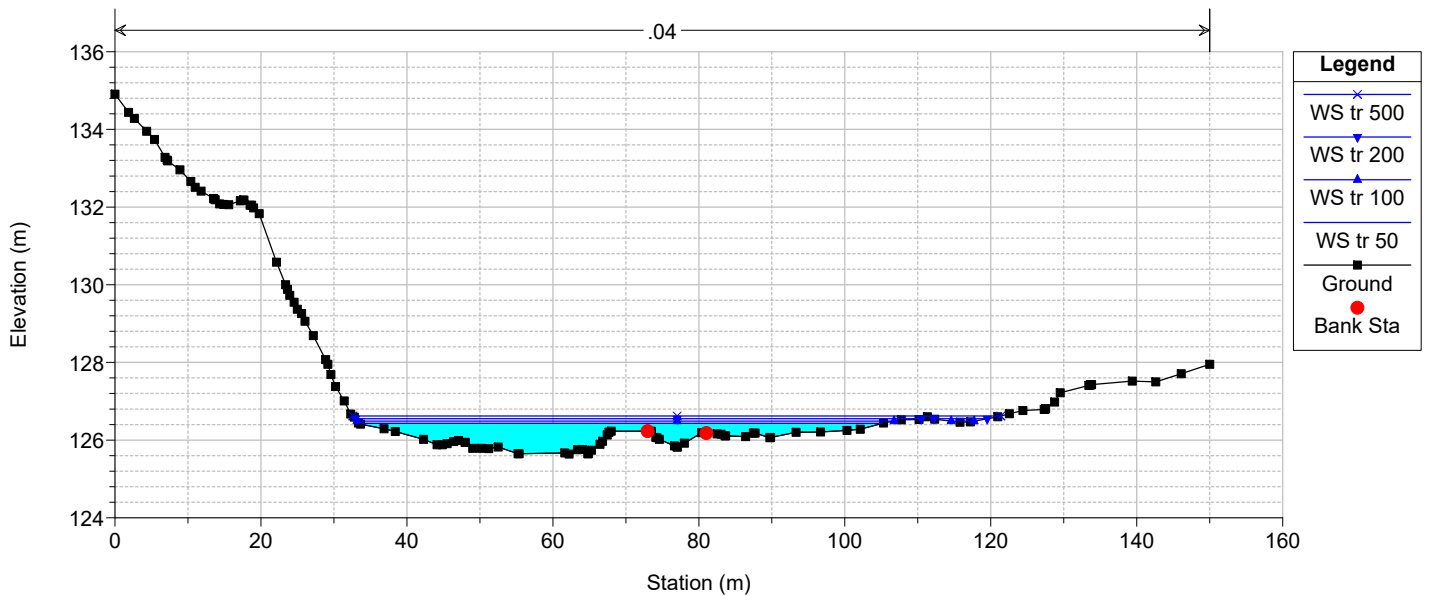
River = Sa Pedraia Reach = Asta RS = 2967.377 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

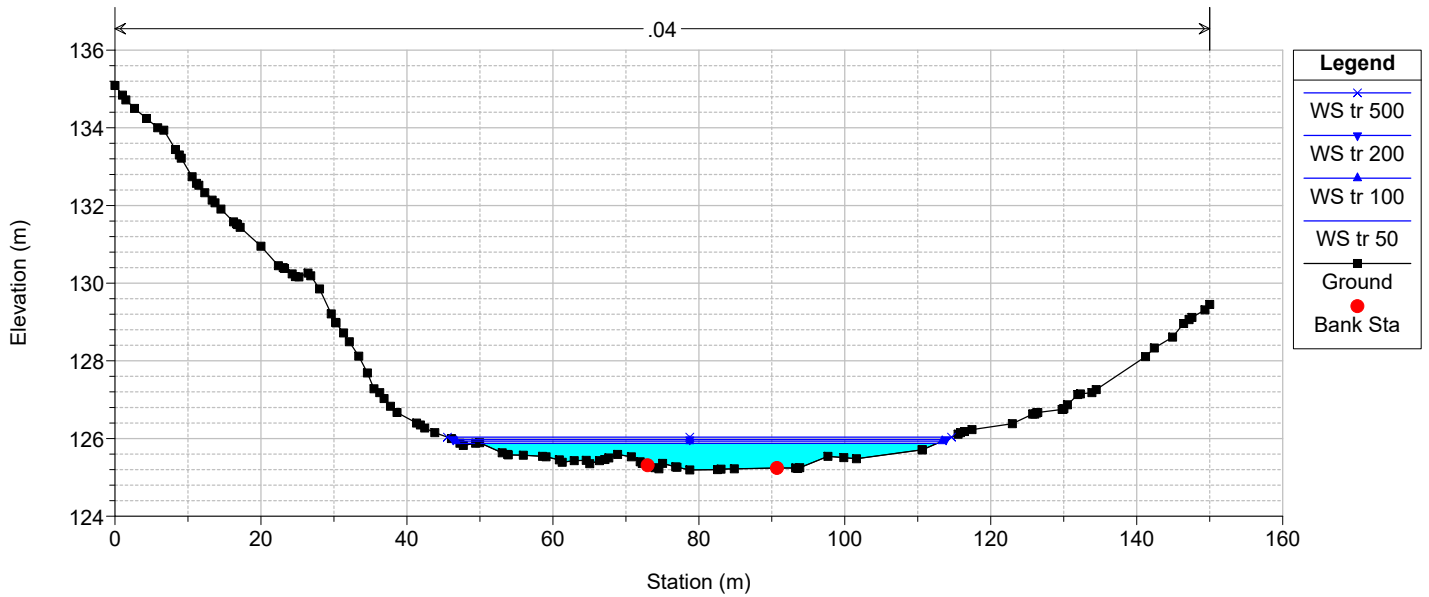
River = Sa Pedraia Reach = Asta RS = 2940 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

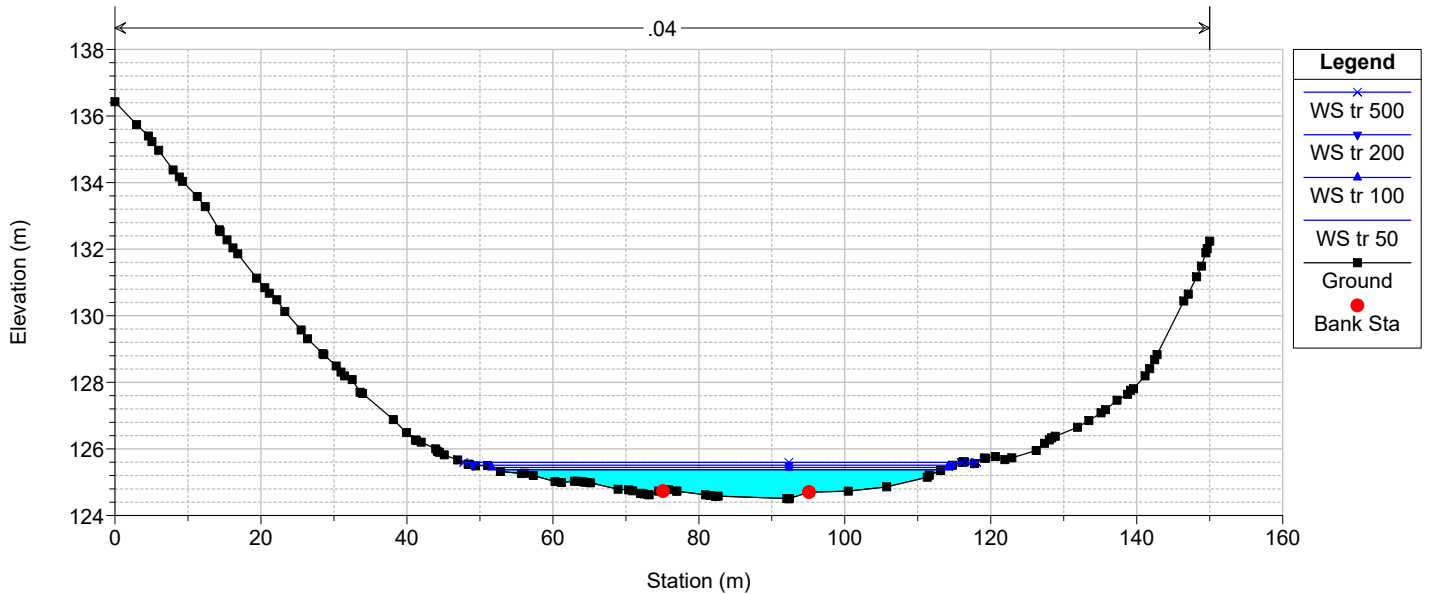
River = Sa Pedraia Reach = Asta RS = 2910 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

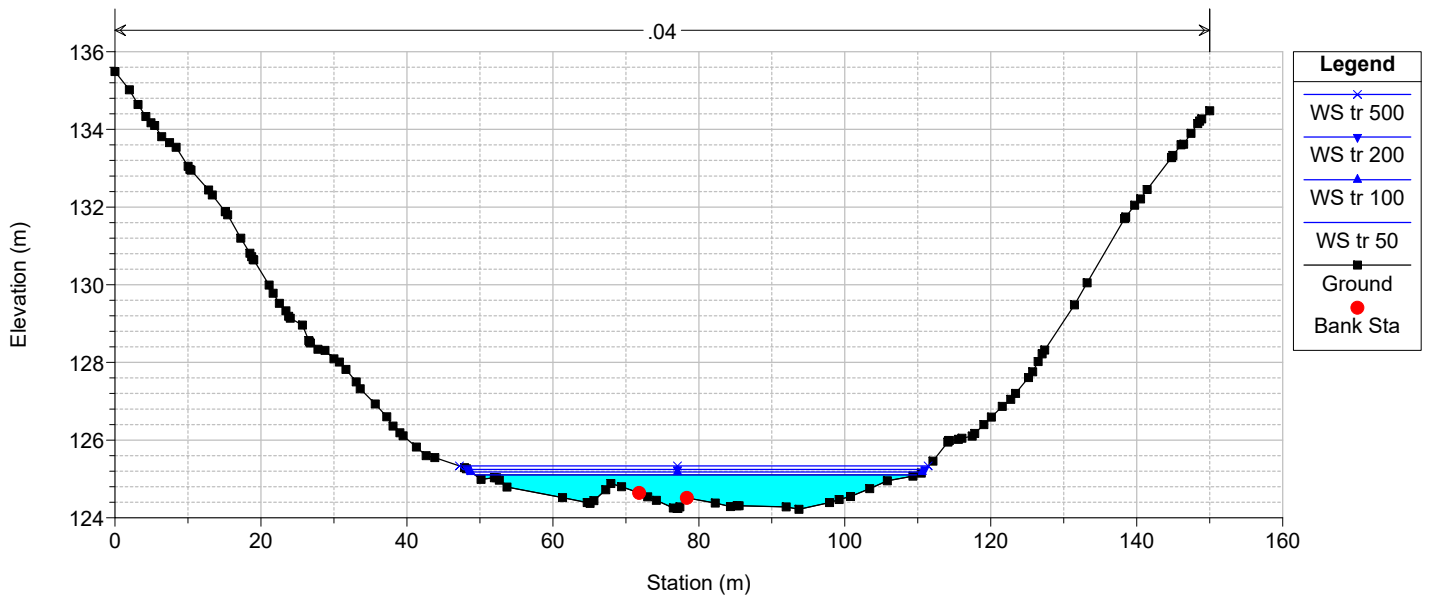
River = Sa Pedraia Reach = Asta RS = 2880 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

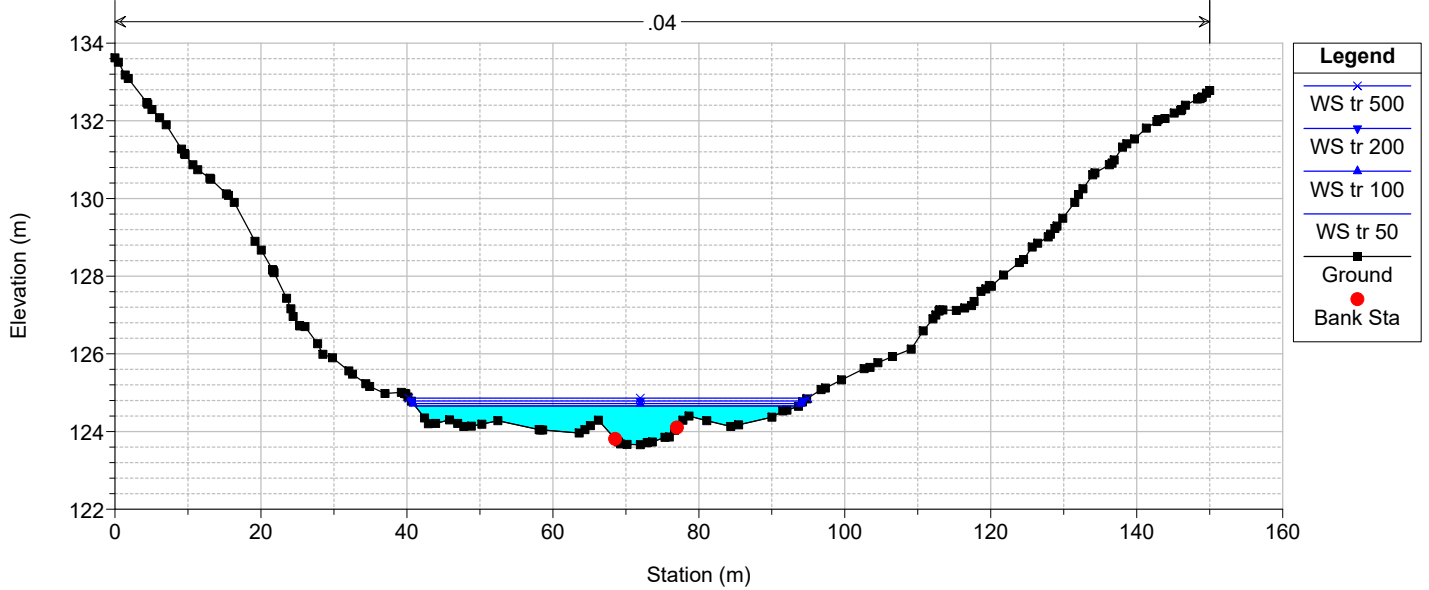
River = Sa Pedraia Reach = Asta RS = 2850 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

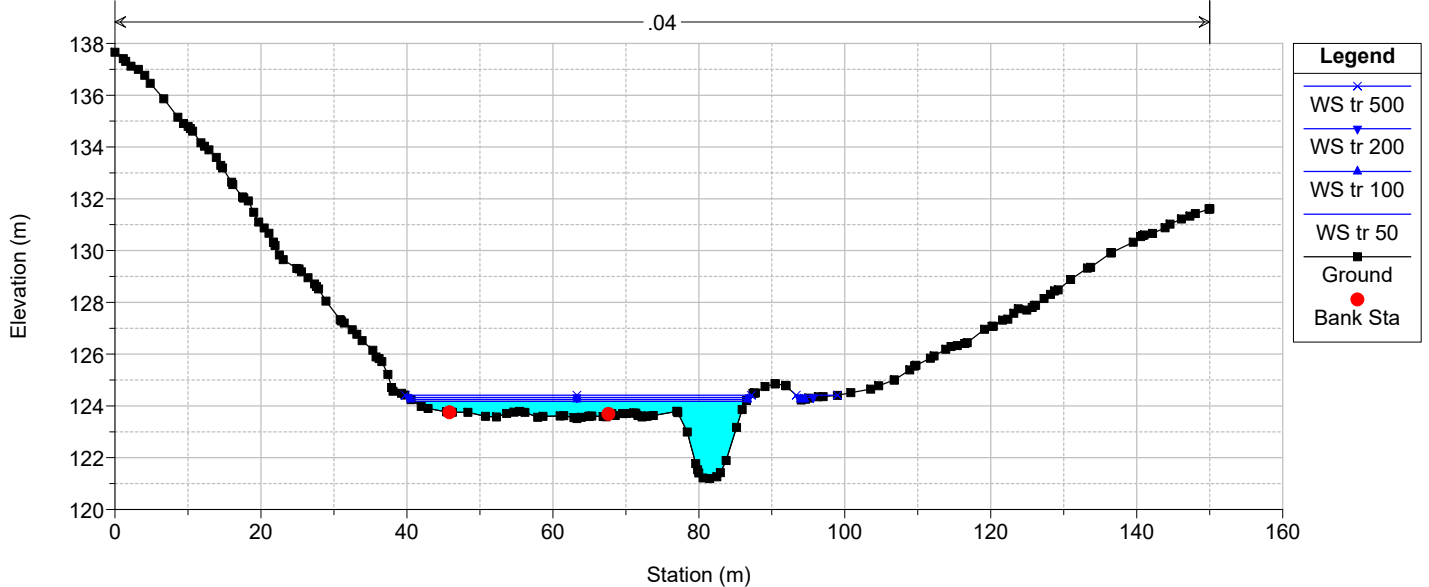
River = Sa Pedraia Reach = Asta RS = 2820 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

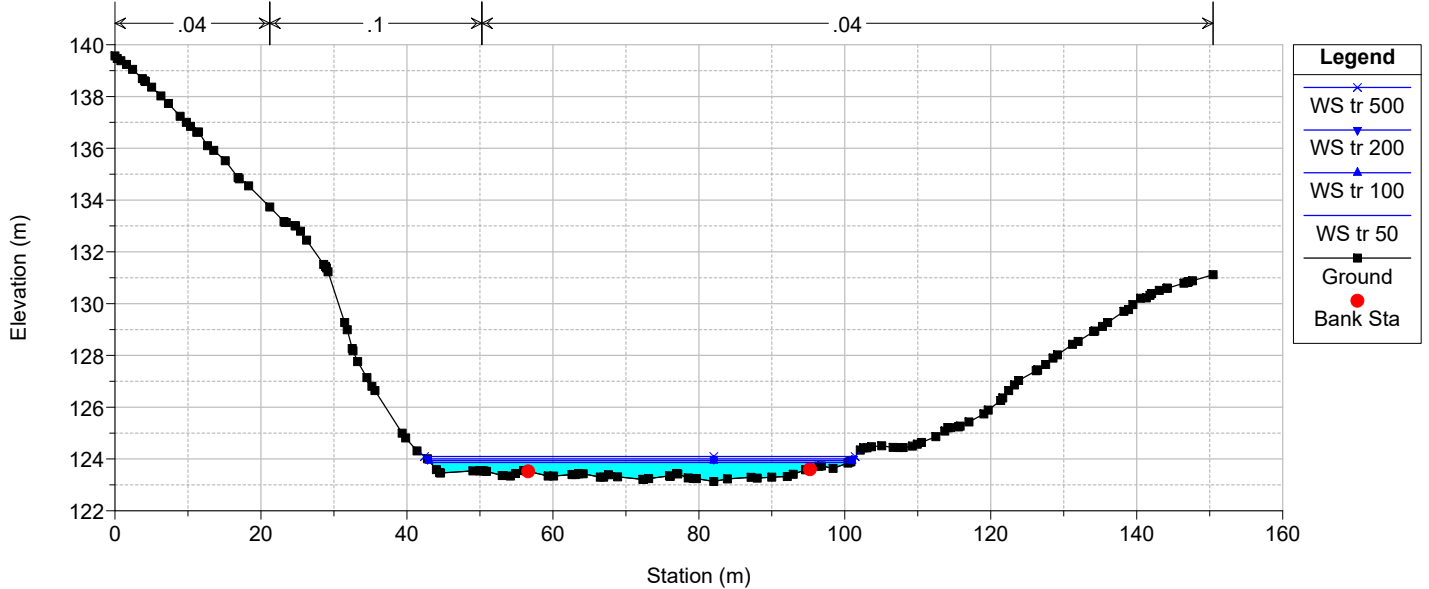
River = Sa Pedraia Reach = Asta RS = 2790 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

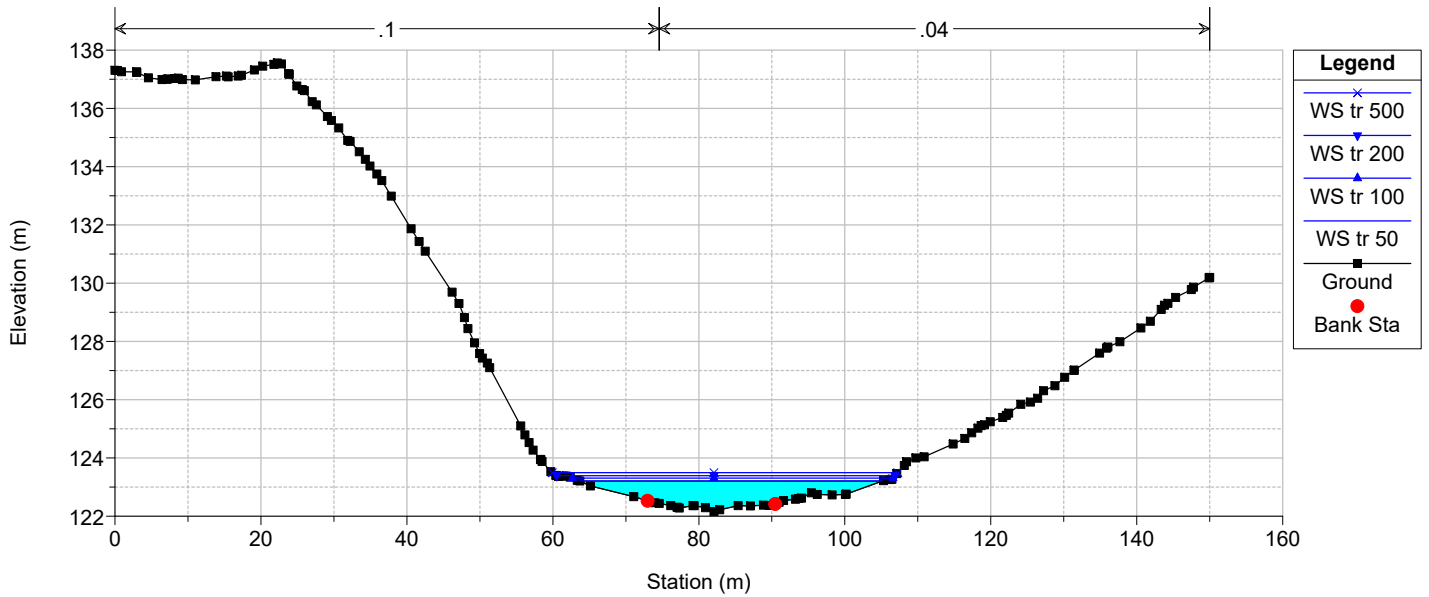
River = Sa Pedraia Reach = Asta RS = 2764.231 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

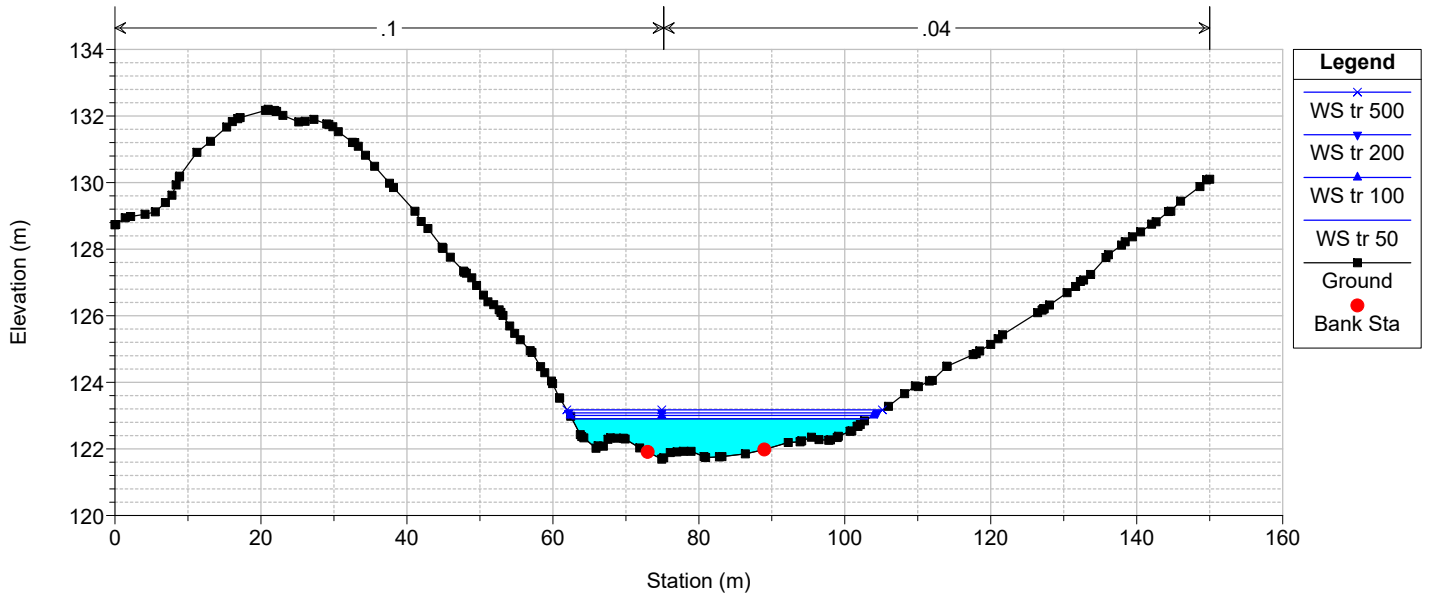
River = Sa Pedraia Reach = Asta RS = 2730 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

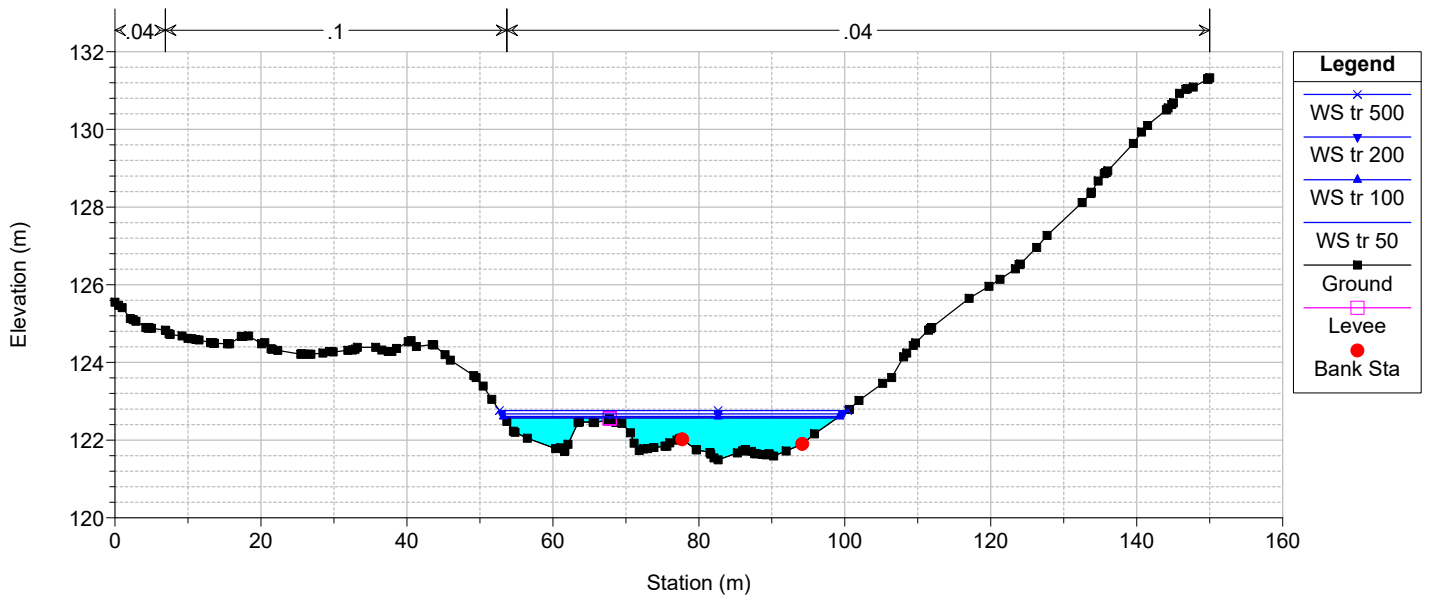
River = Sa Pedraia Reach = Asta RS = 2700 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

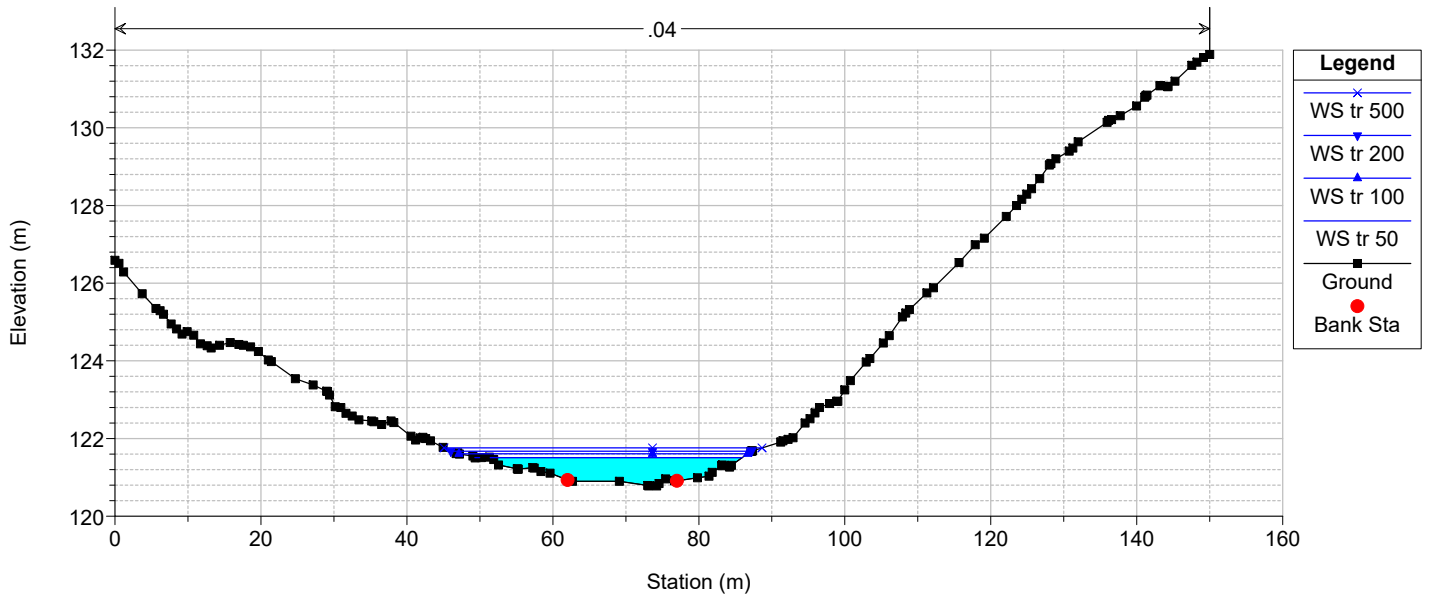
River = Sa Pedraia Reach = Asta RS = 2670 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

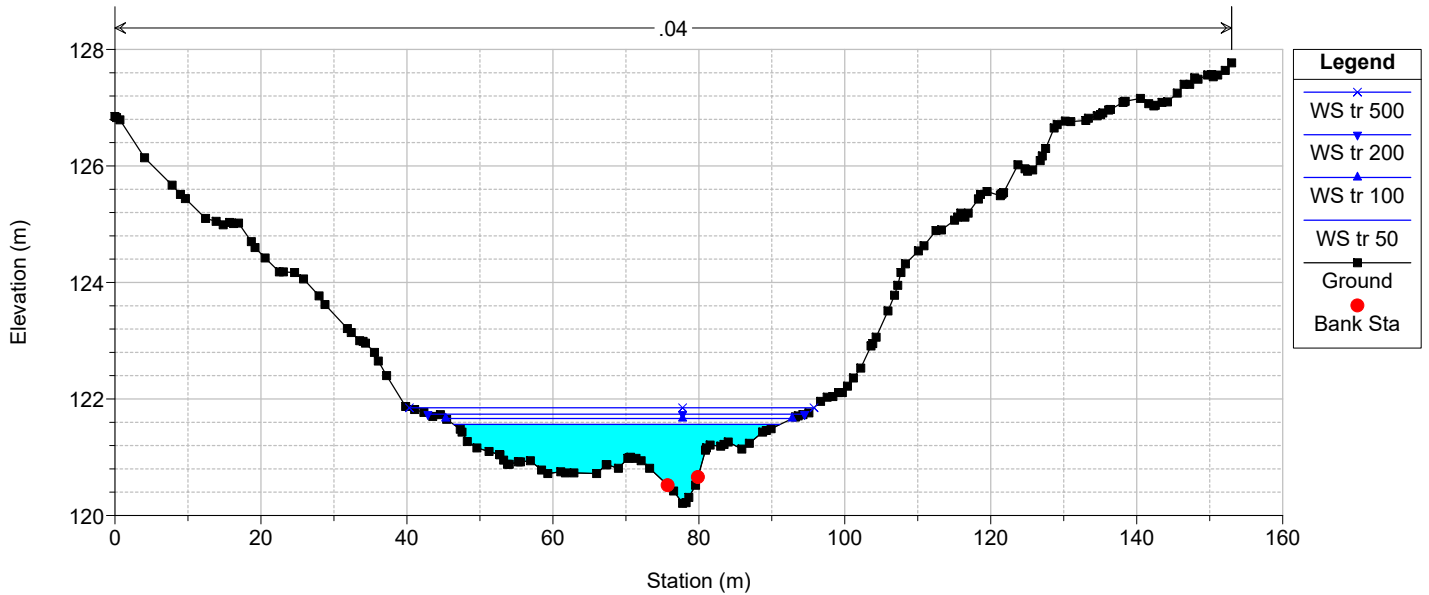
River = Sa Pedraia Reach = Asta RS = 2640 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

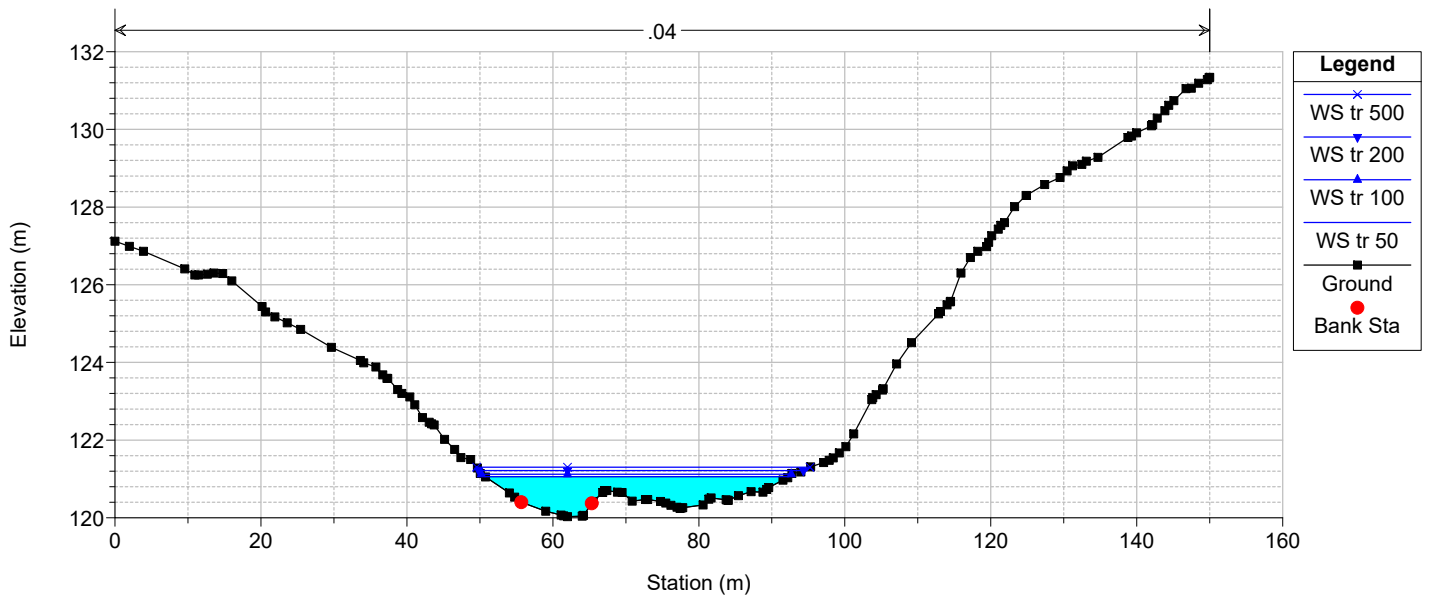
River = Sa Pedraia Reach = Asta RS = 2616.739 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

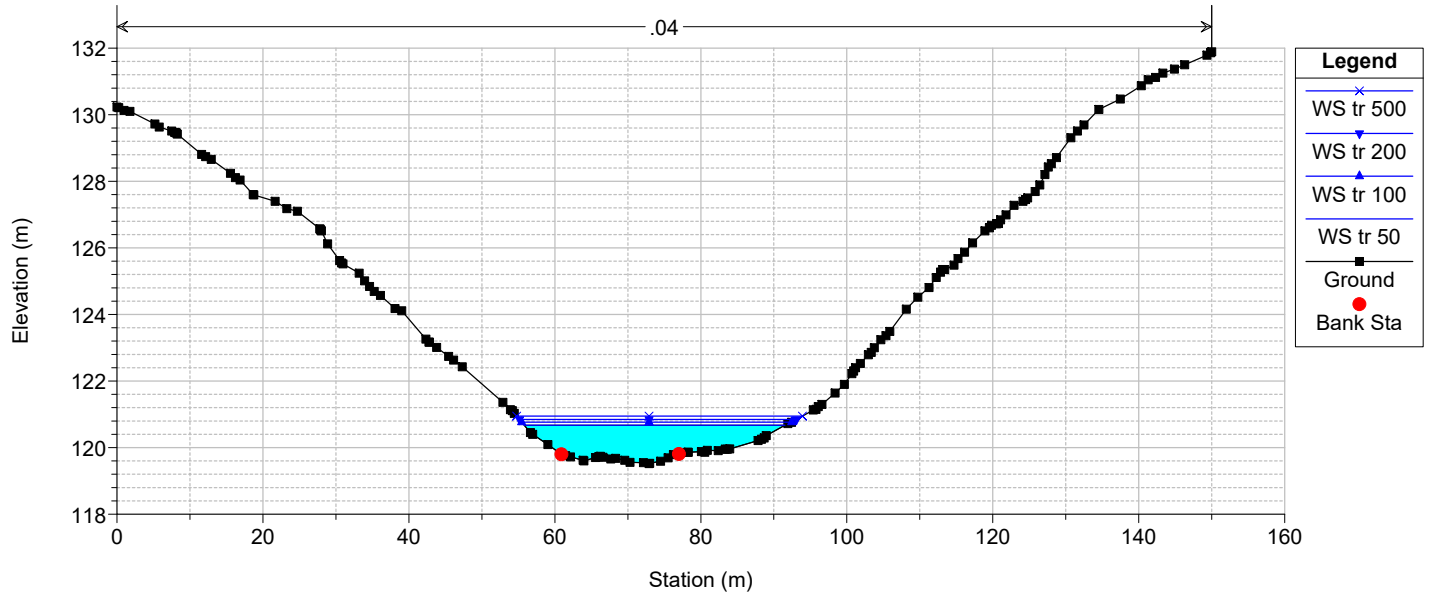
River = Sa Pedraia Reach = Asta RS = 2580 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

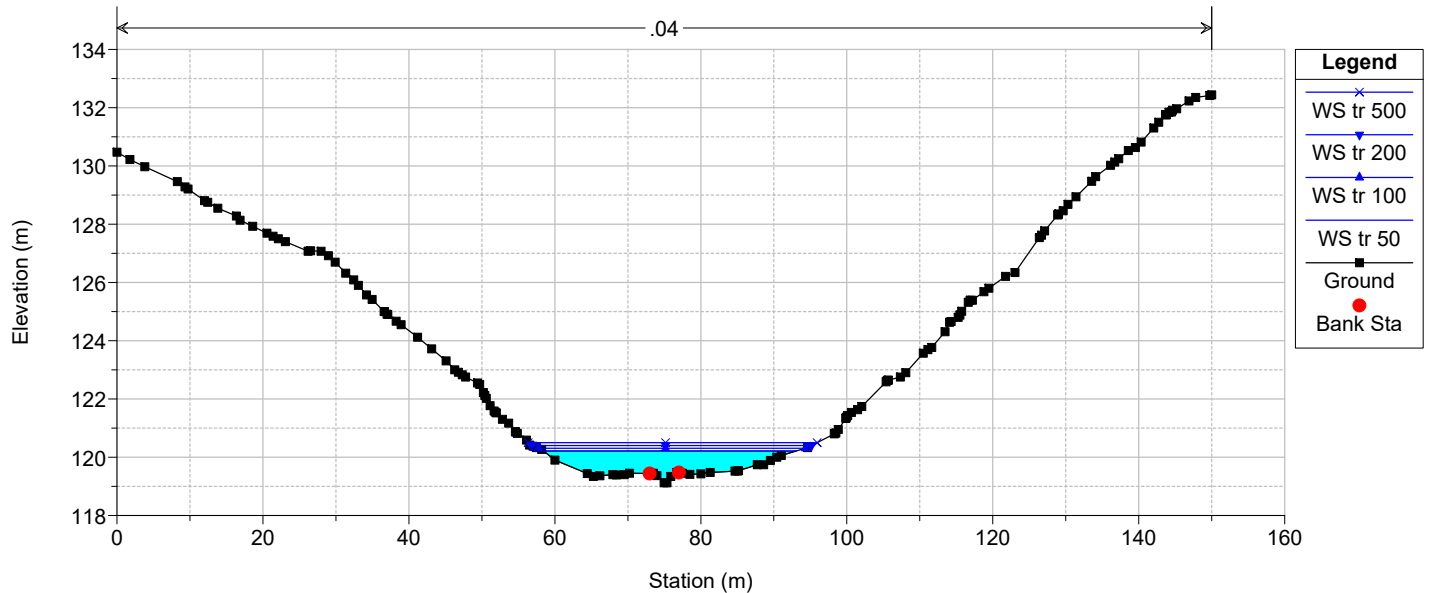
River = Sa Pedraia Reach = Asta RS = 2550 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

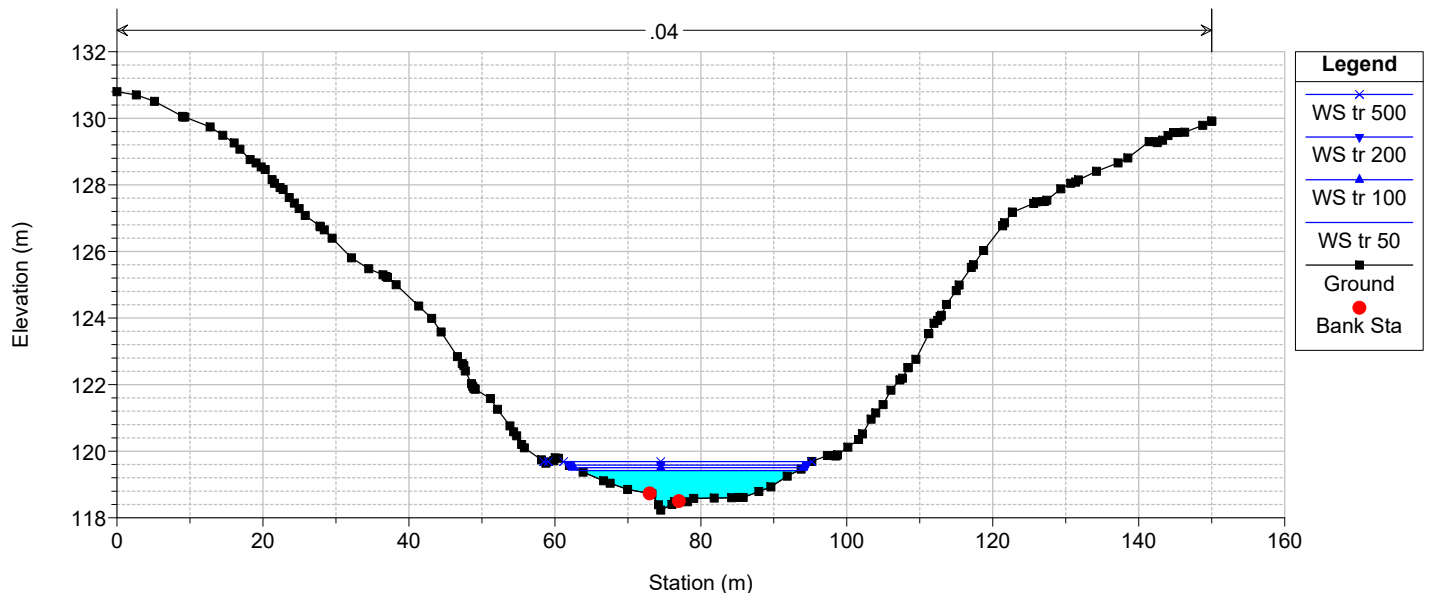
River = Sa Pedraia Reach = Asta RS = 2520 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

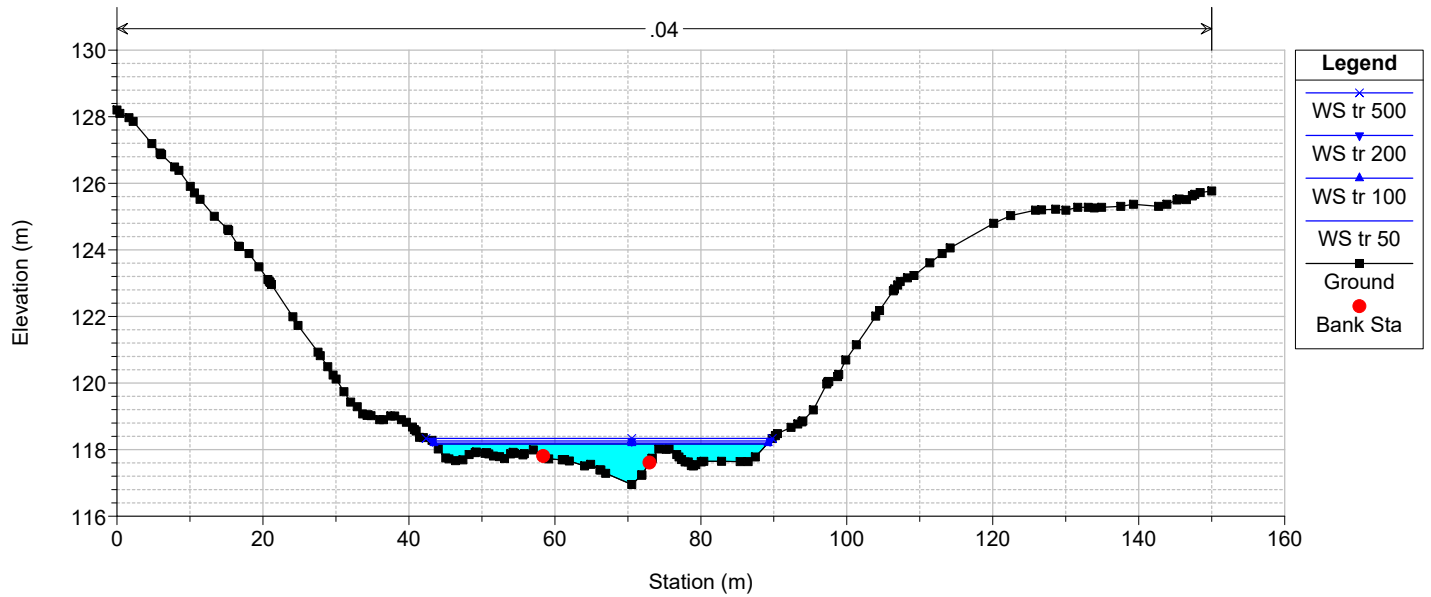
River = Sa Pedraia Reach = Asta RS = 2490 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

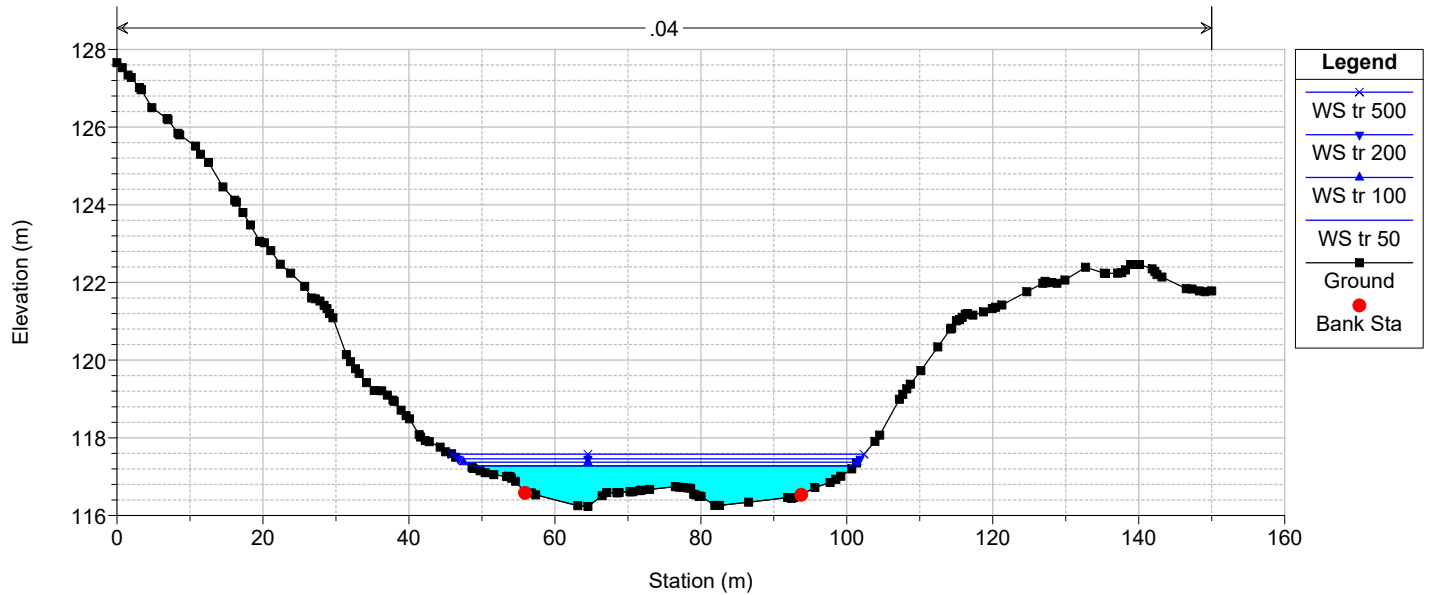
River = Sa Pedraia Reach = Asta RS = 2370 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

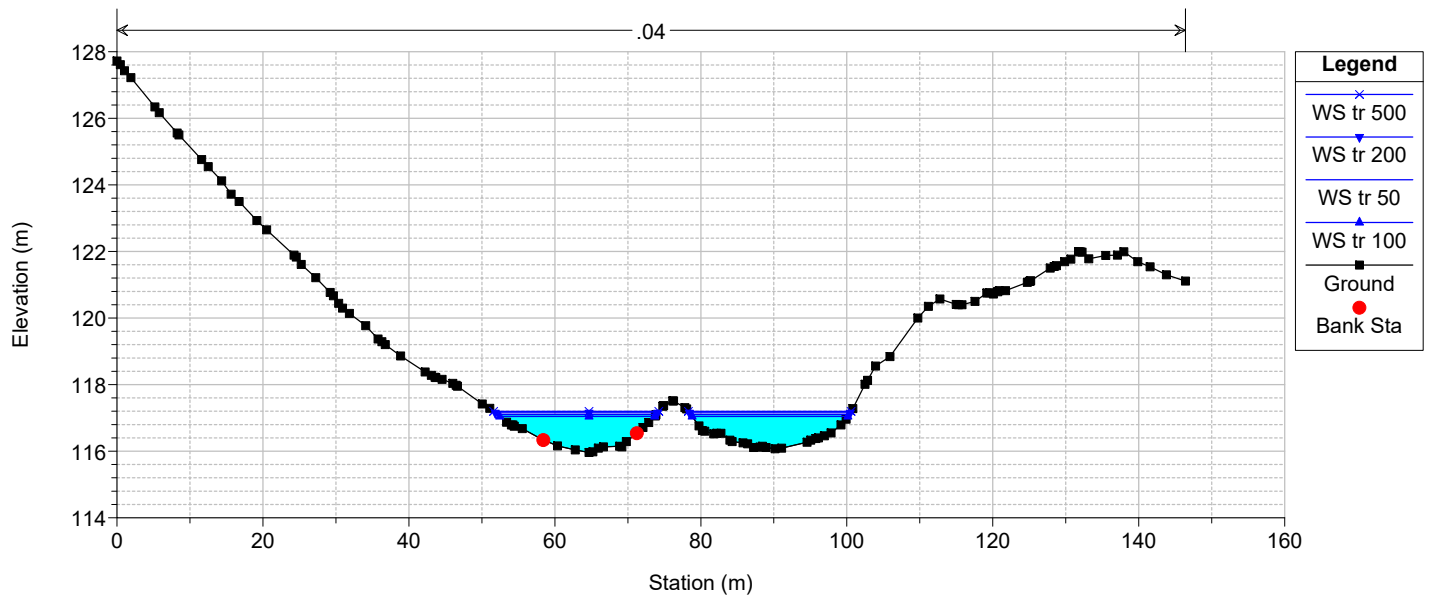
River = Sa Pedraia Reach = Asta RS = 2340 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

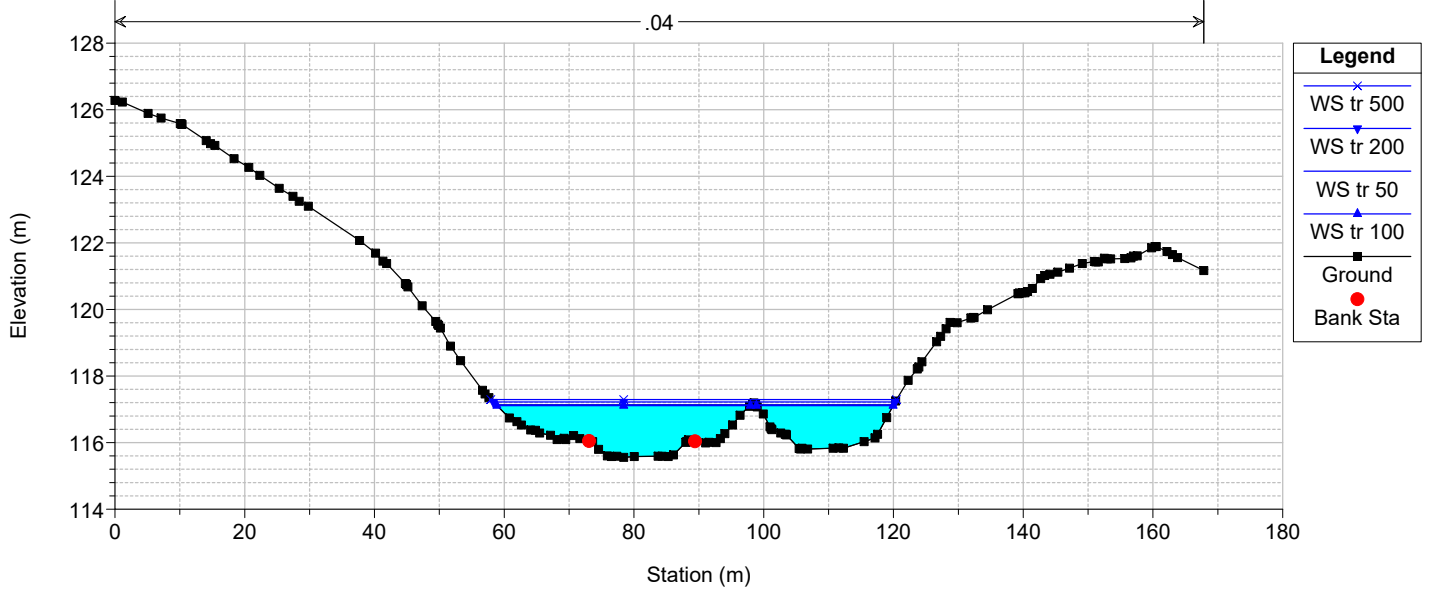
River = Sa Pedraia Reach = Asta RS = 2318.474 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

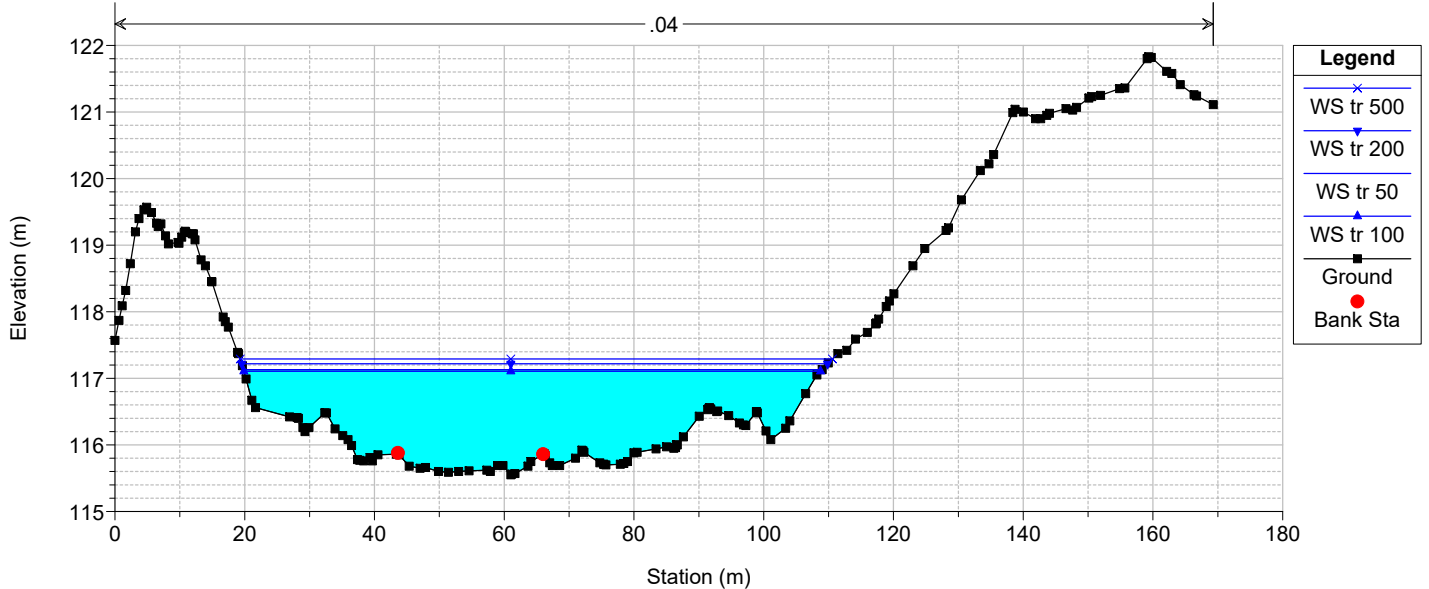
River = Sa Pedraia Reach = Asta RS = 2295.376 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

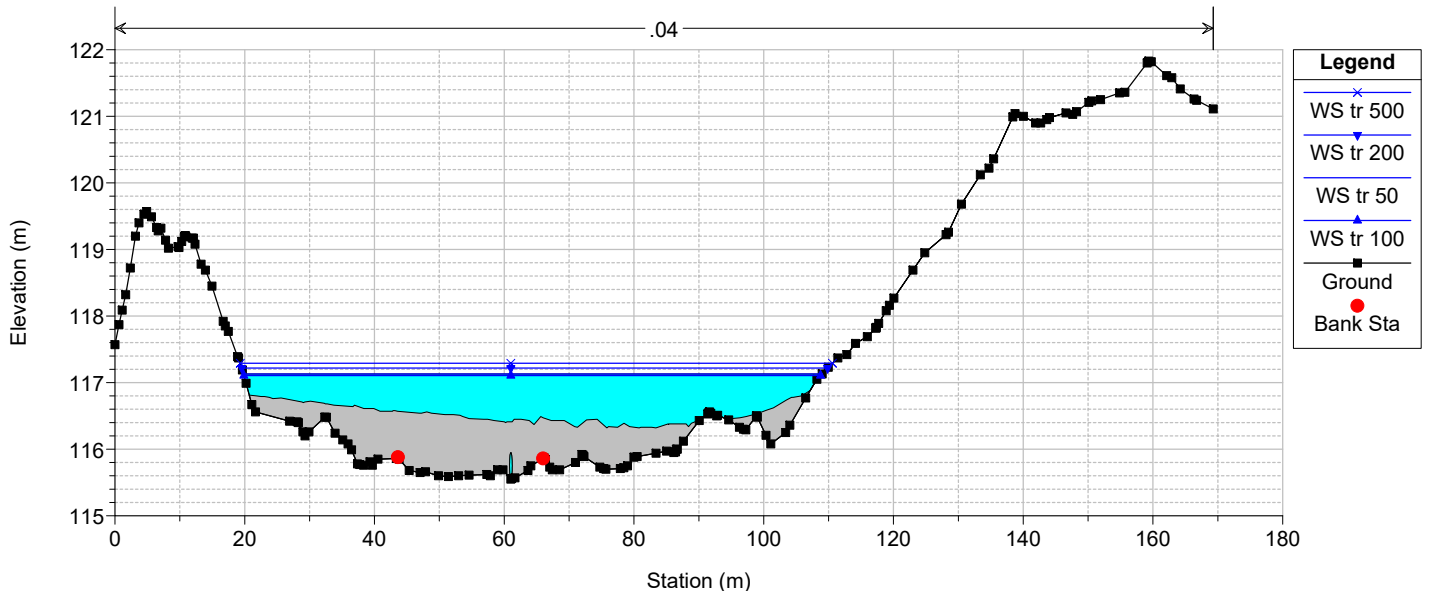
River = Sa Pedraia Reach = Asta RS = 2262.627 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

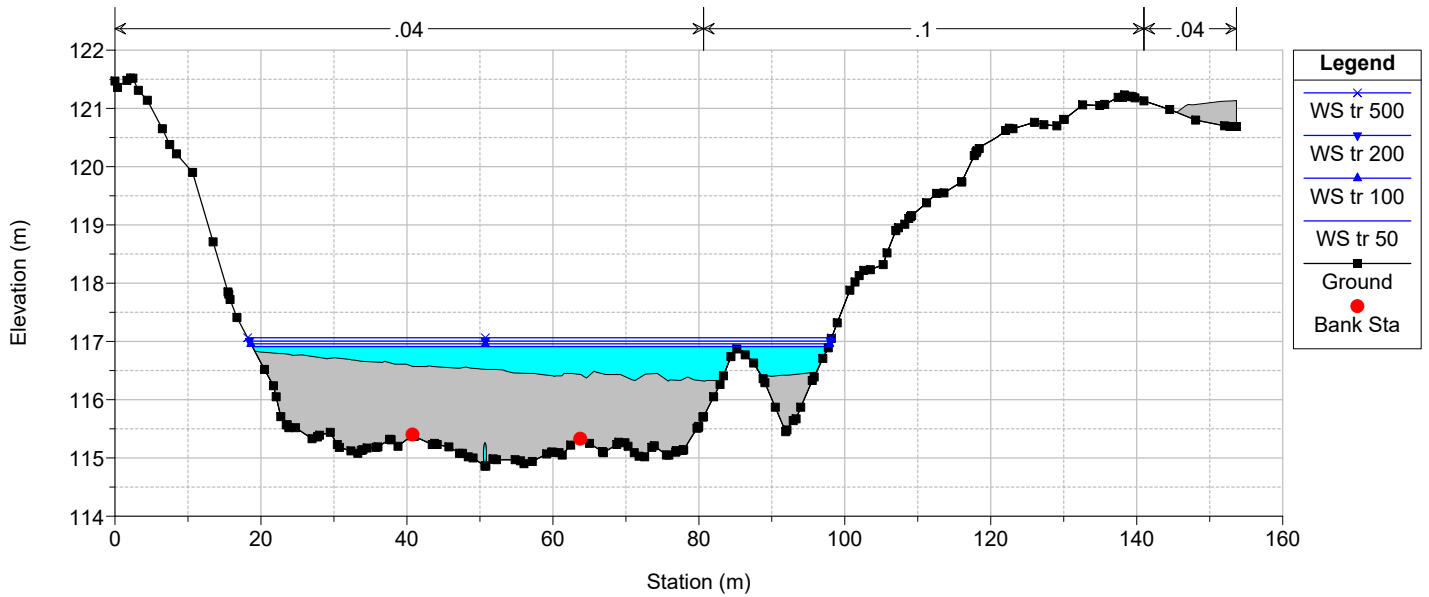
River = Sa Pedraia Reach = Asta RS = 2251.812 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

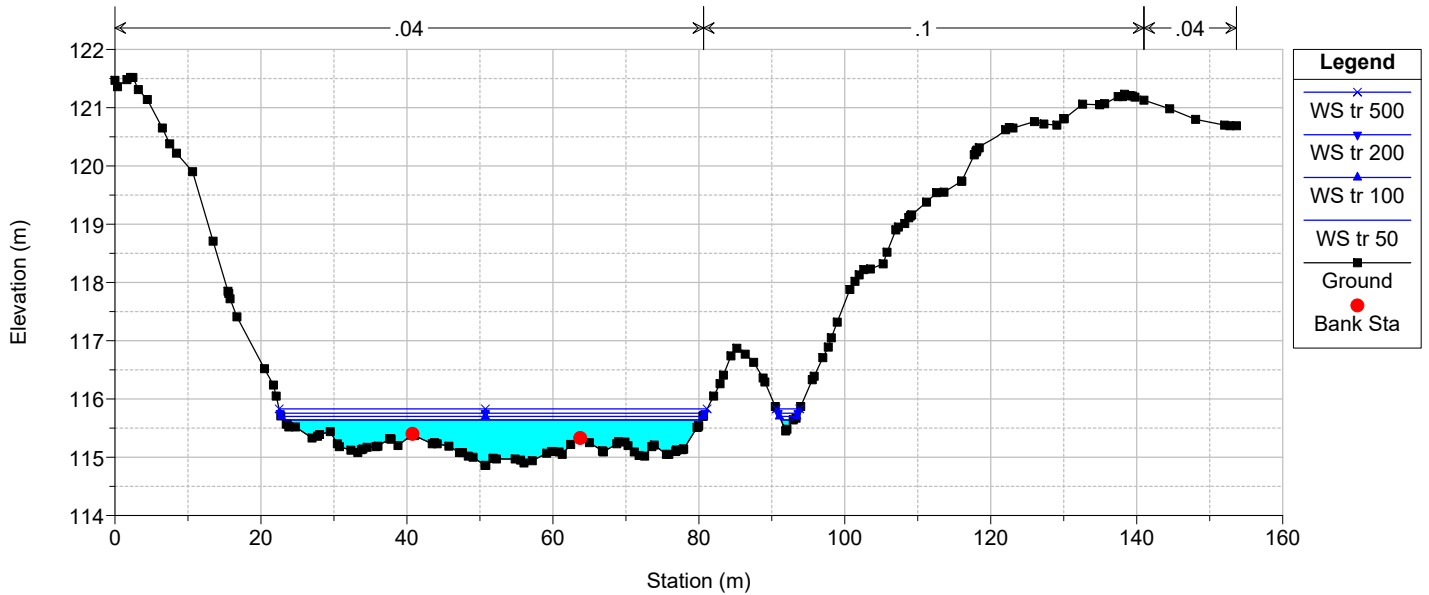
River = Sa Pedraia Reach = Asta RS = 2251.812 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

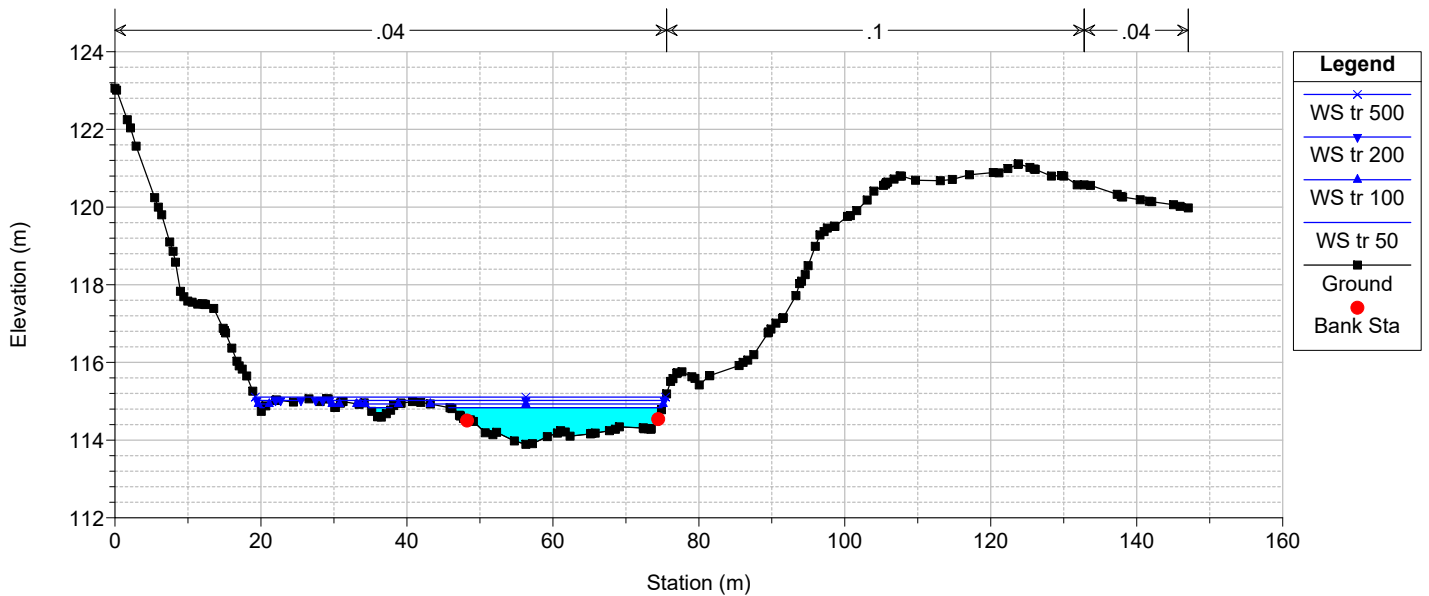
River = Sa Pedraia Reach = Asta RS = 2240.13 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

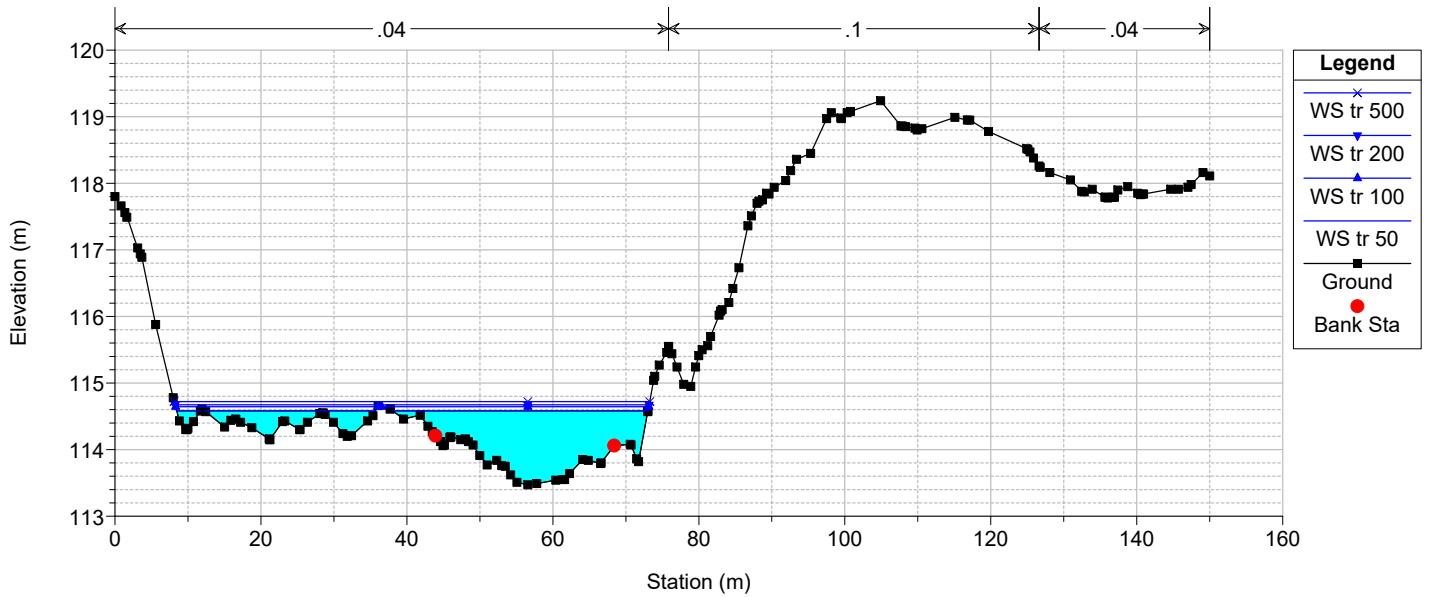
River = Sa Pedraia Reach = Asta RS = 2217.269 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

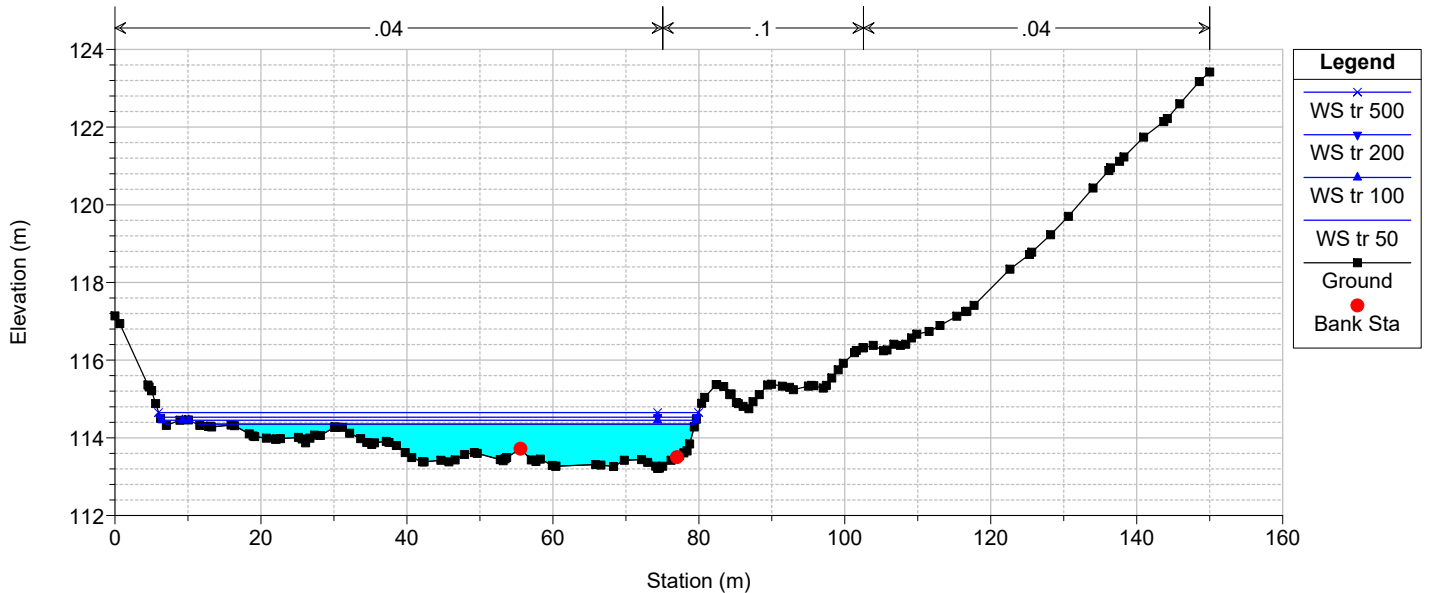
River = Sa Pedraia Reach = Asta RS = 2190 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

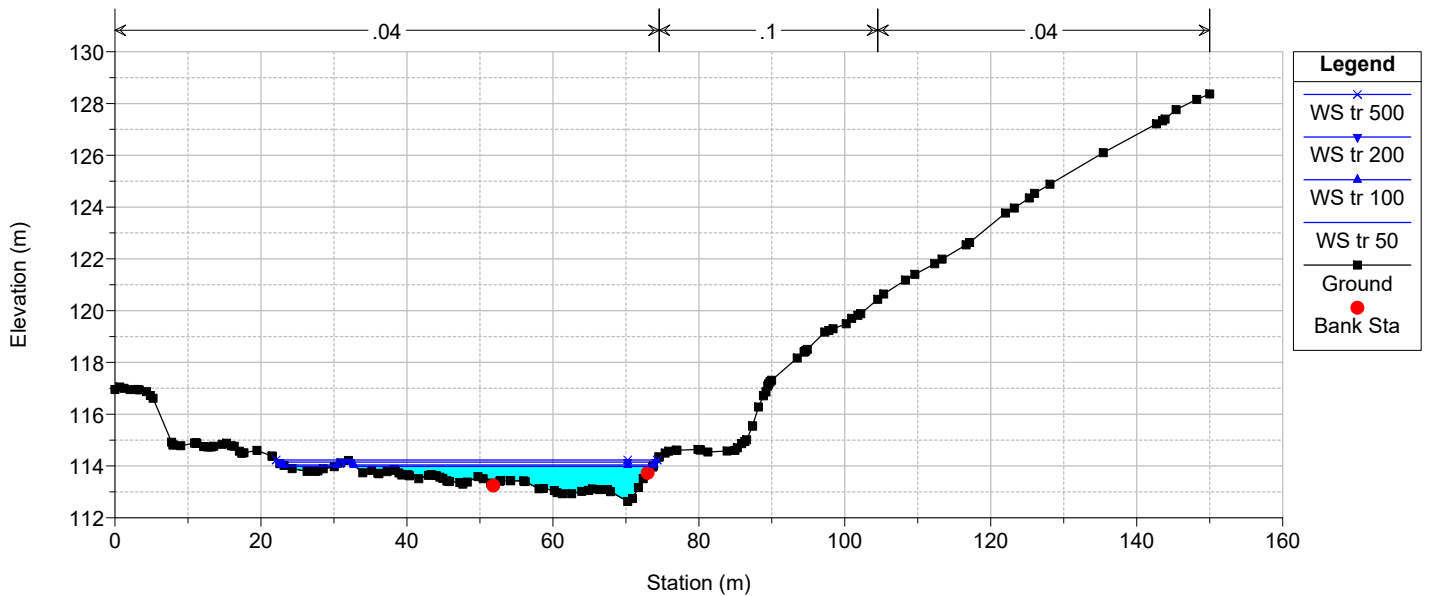
River = Sa Pedraia Reach = Asta RS = 2160 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

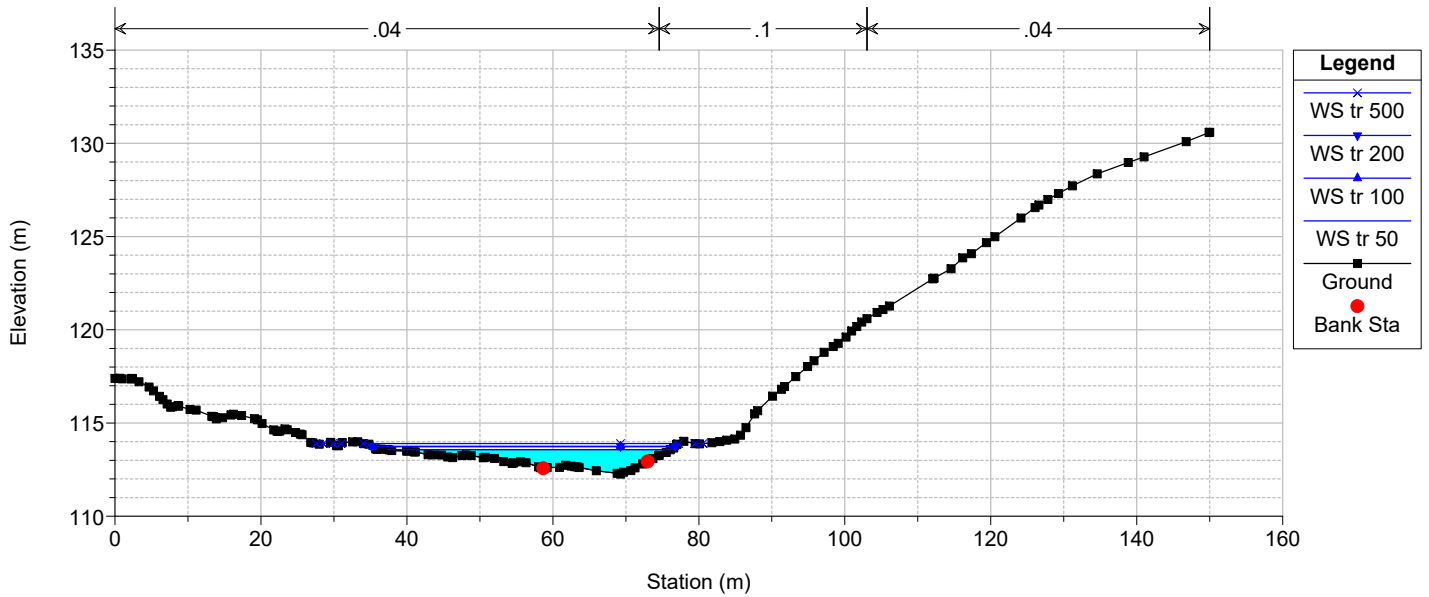
River = Sa Pedraia Reach = Asta RS = 2130 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

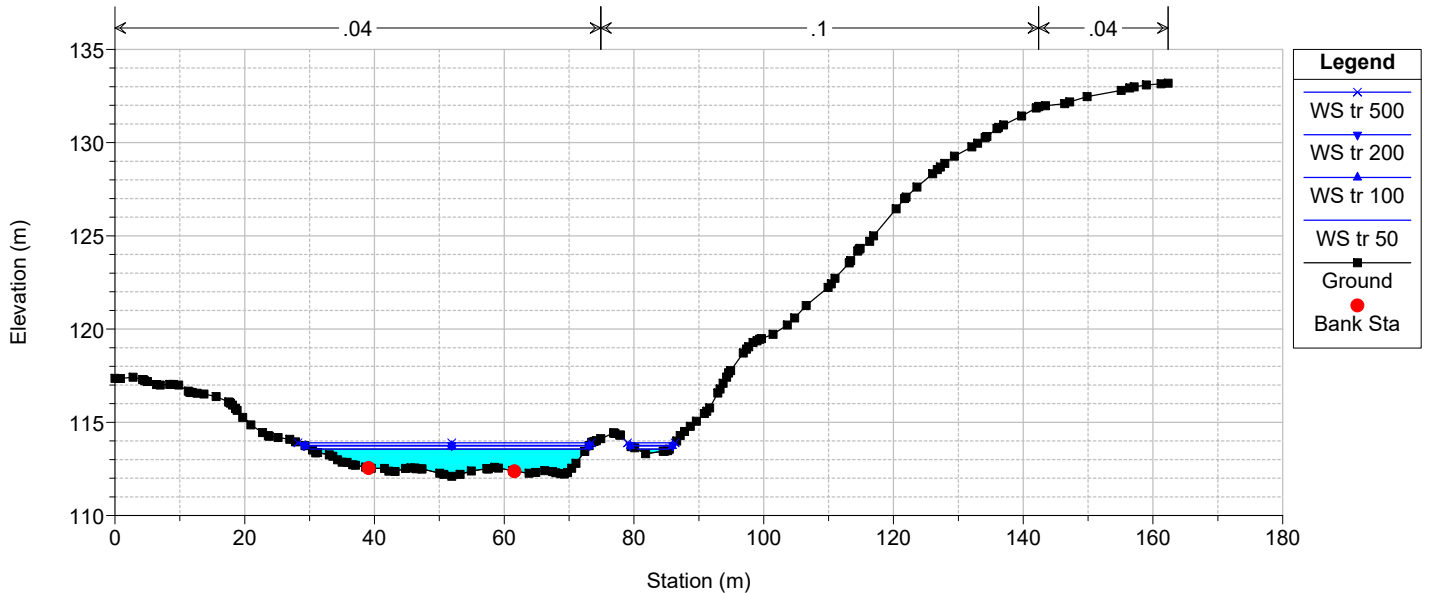
River = Sa Pedraia Reach = Asta RS = 2100 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

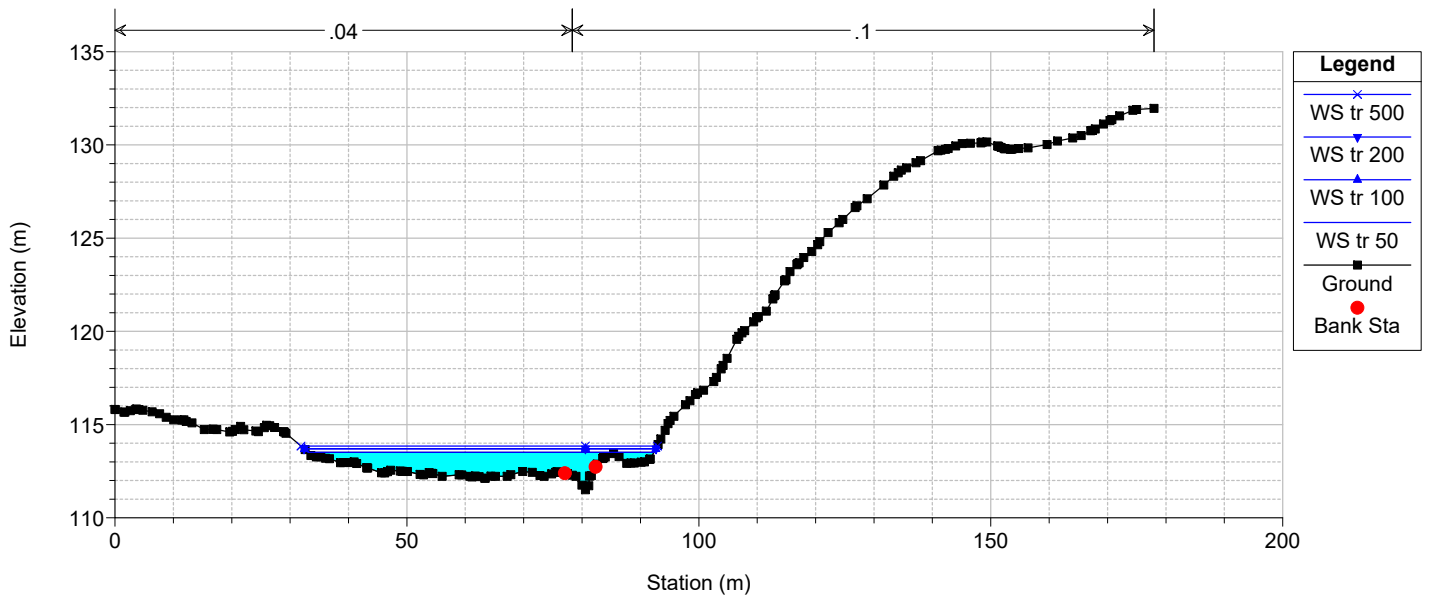
River = Sa Pedraia Reach = Asta RS = 2066.35 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

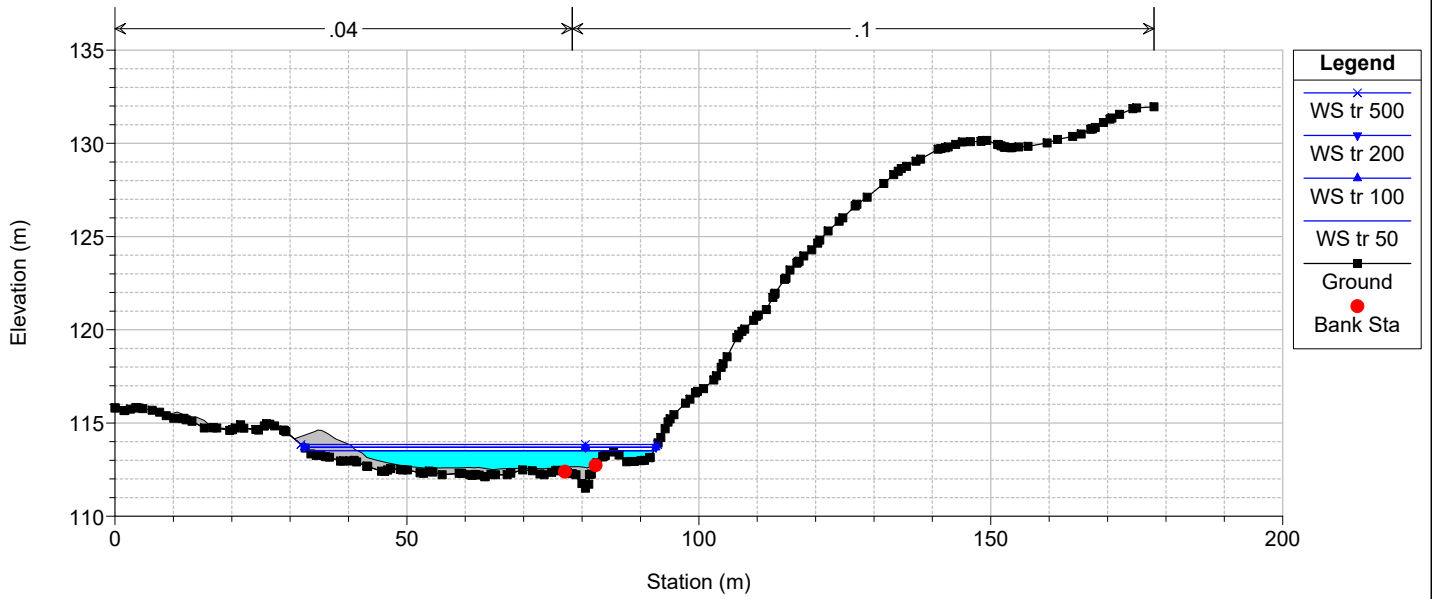
River = Sa Pedraia Reach = Asta RS = 2036.066 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

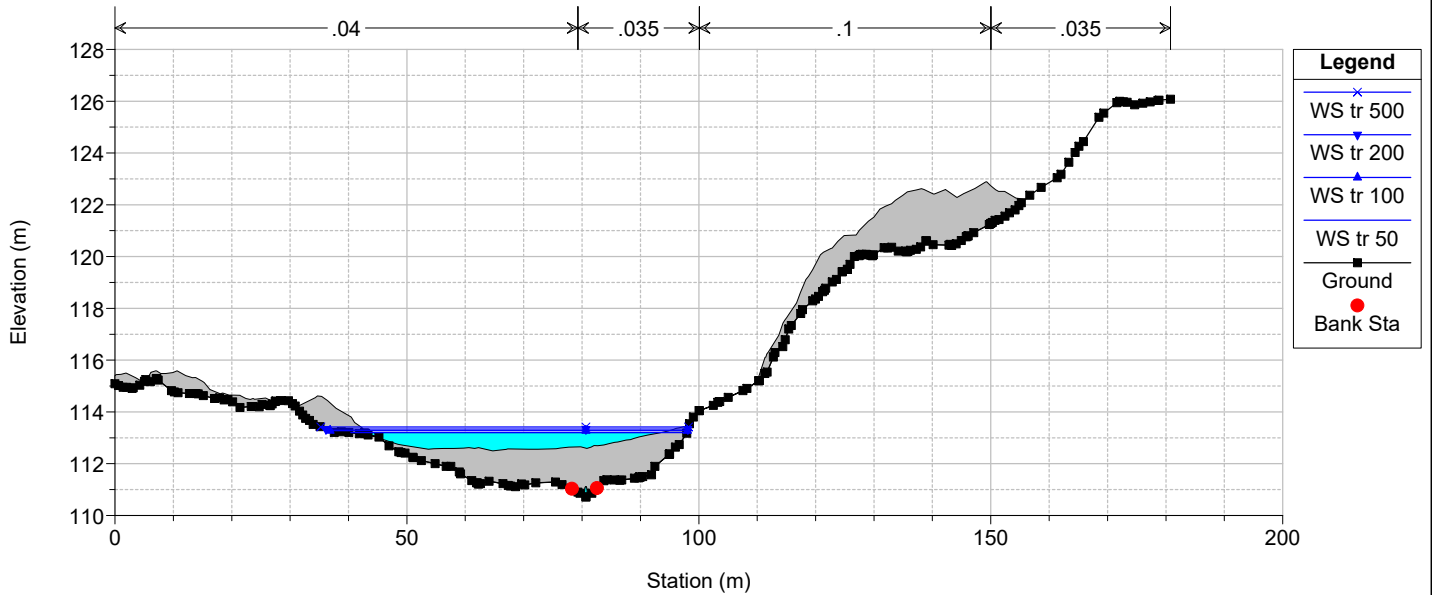
River = Sa Pedraia Reach = Asta RS = 2021.99 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

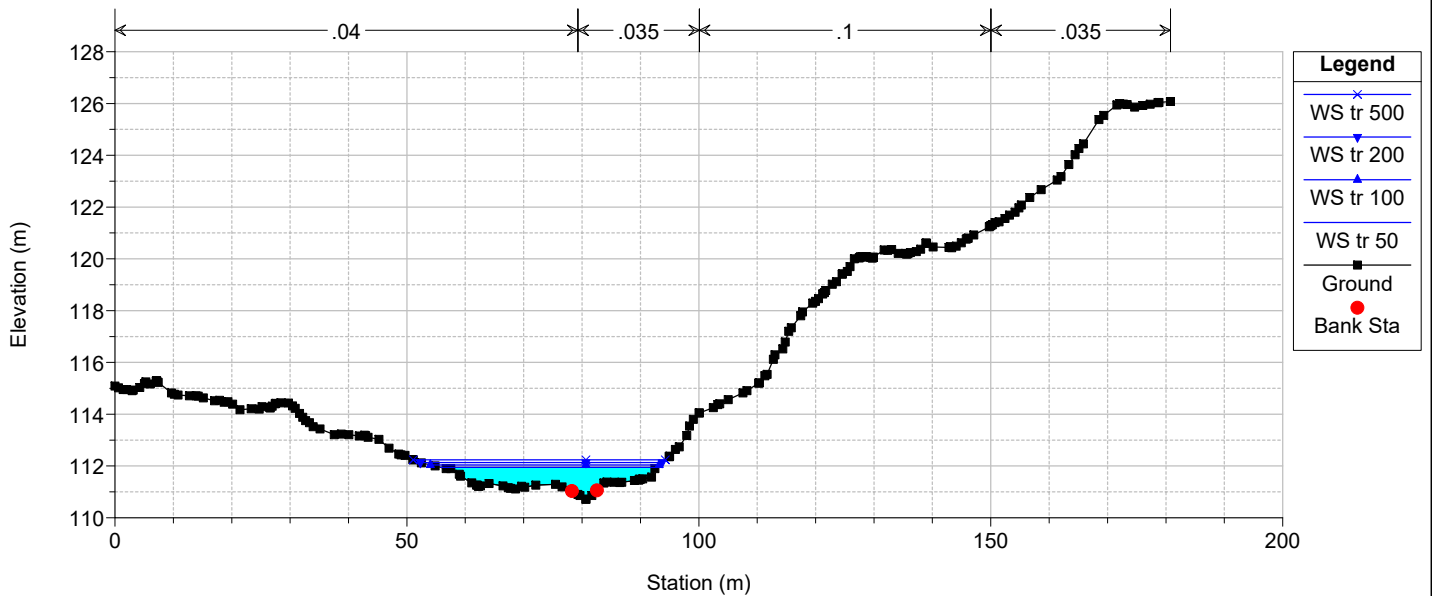
River = Sa Pedraia Reach = Asta RS = 2021.99 Culv COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

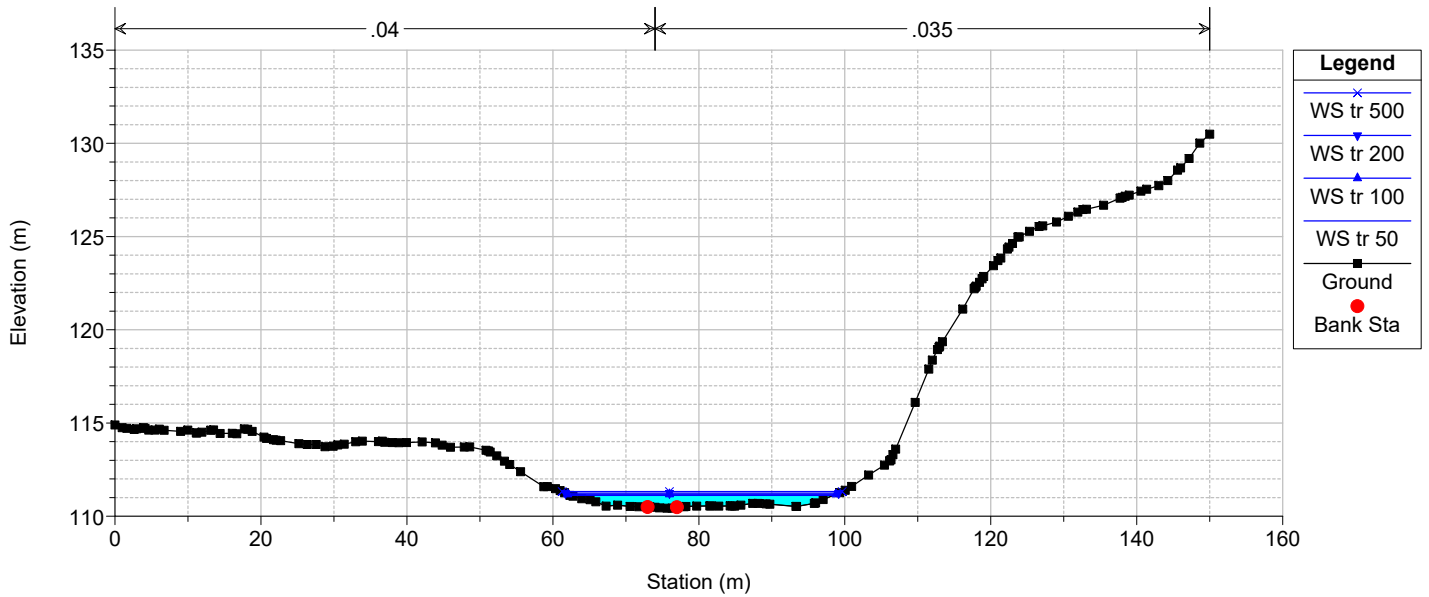
River = Sa Pedraia Reach = Asta RS = 2012.377 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

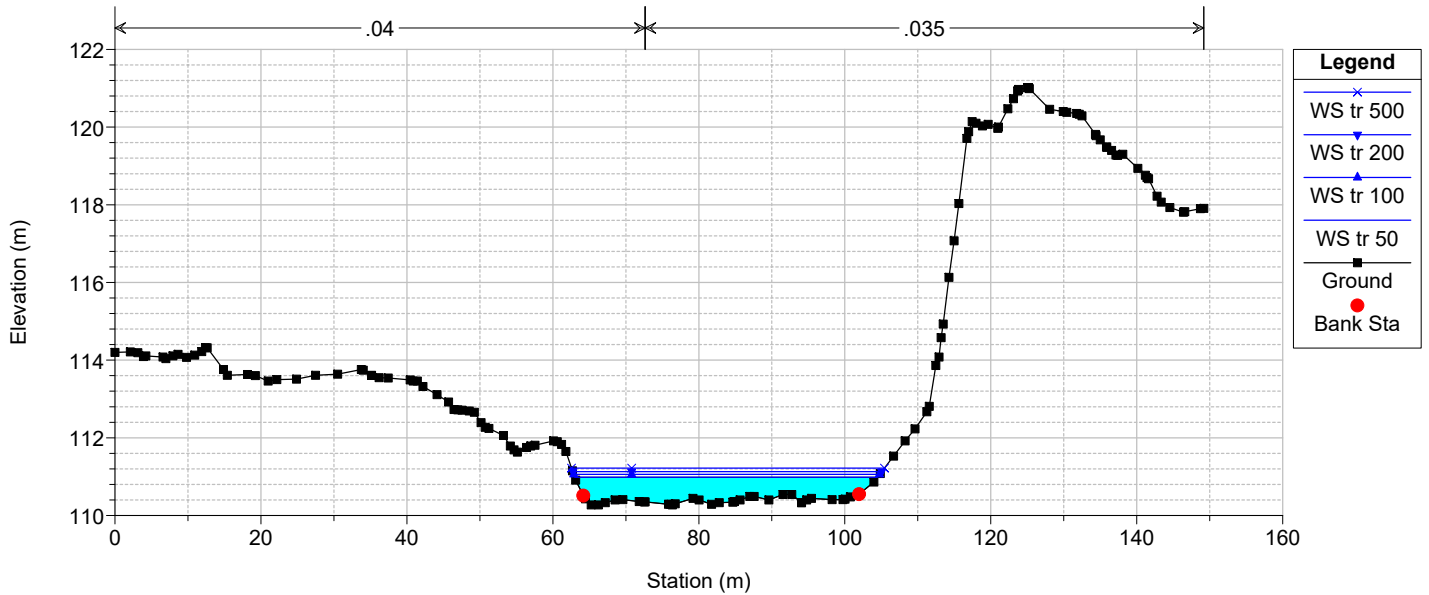
River = Sa Pedraia Reach = Asta RS = 1980 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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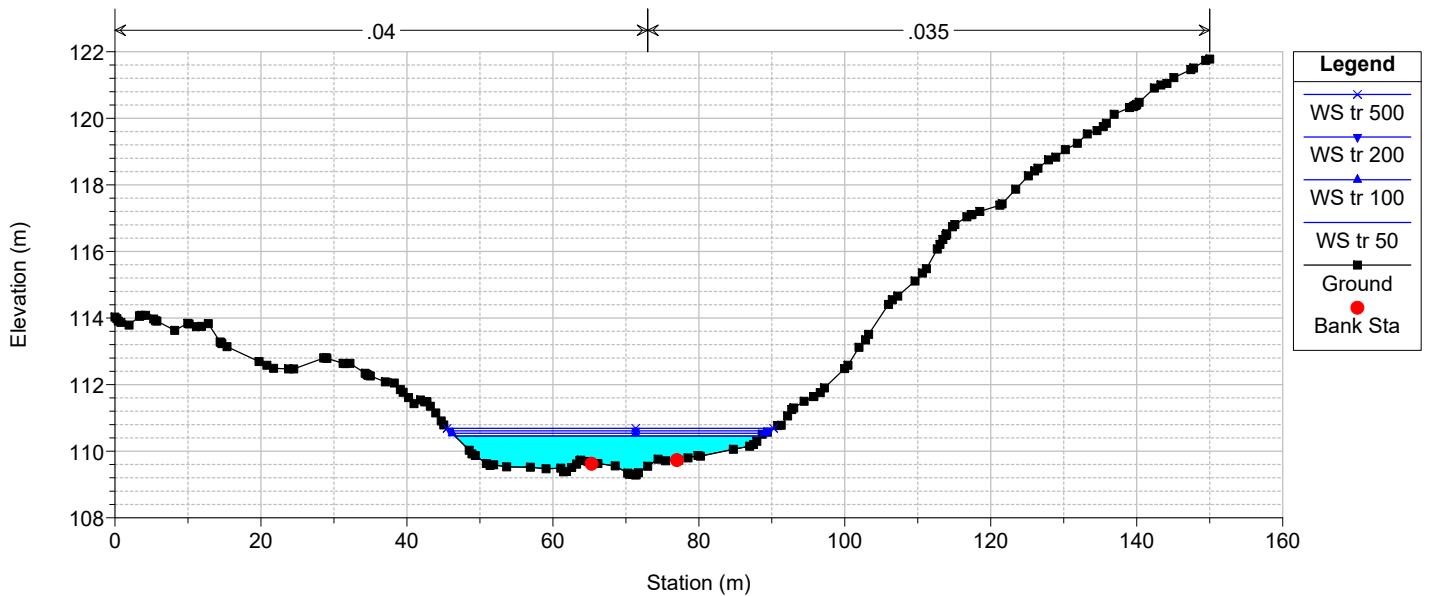
River = Sa Pedraia Reach = Asta RS = 1957.119 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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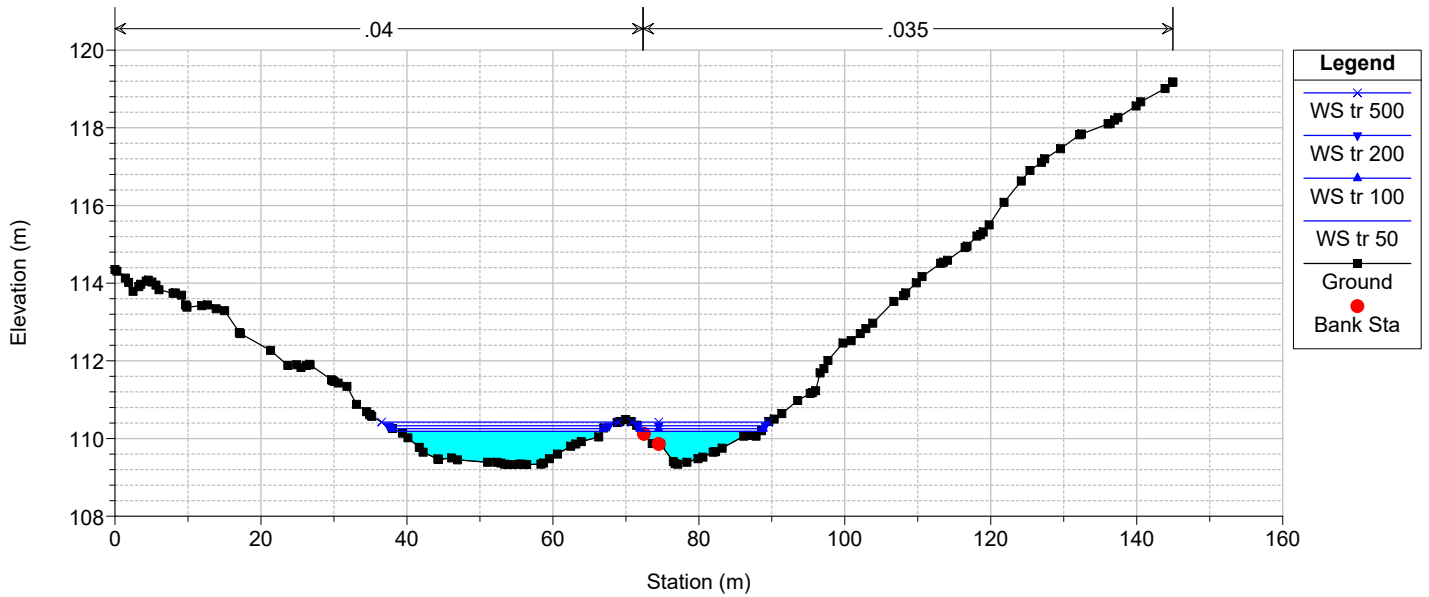
River = Sa Pedraia Reach = Asta RS = 1920 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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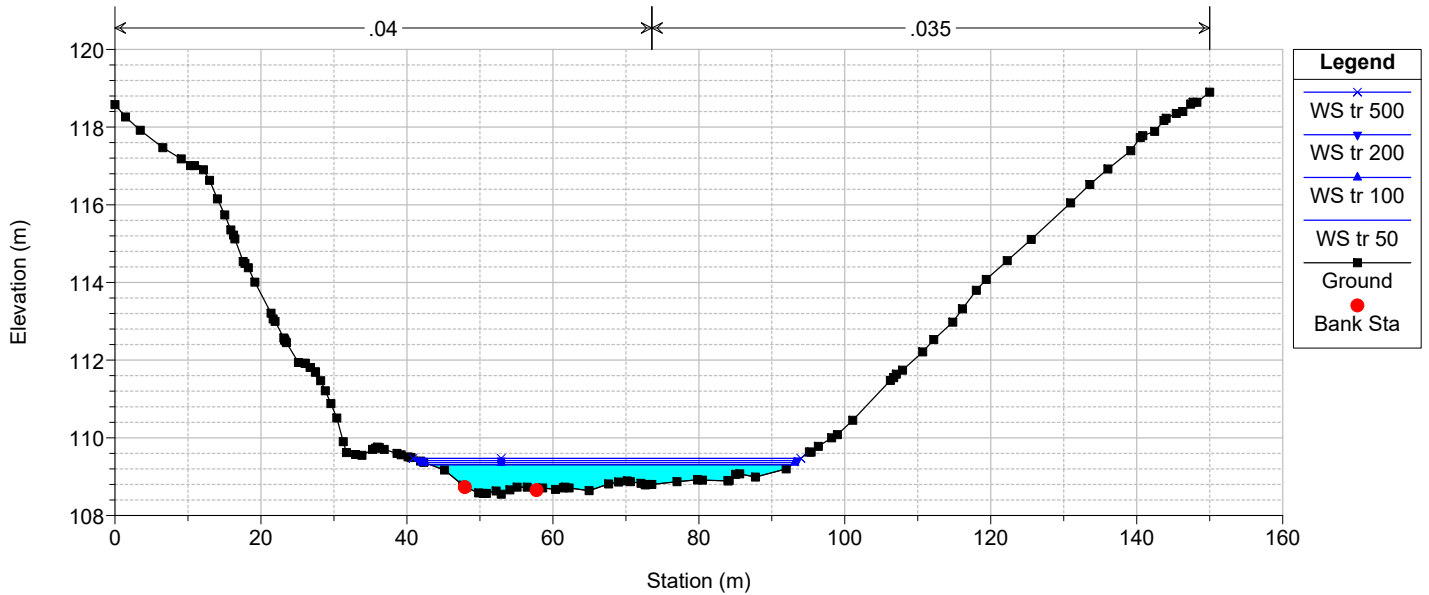
River = Sa Pedraia Reach = Asta RS = 1903.936 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

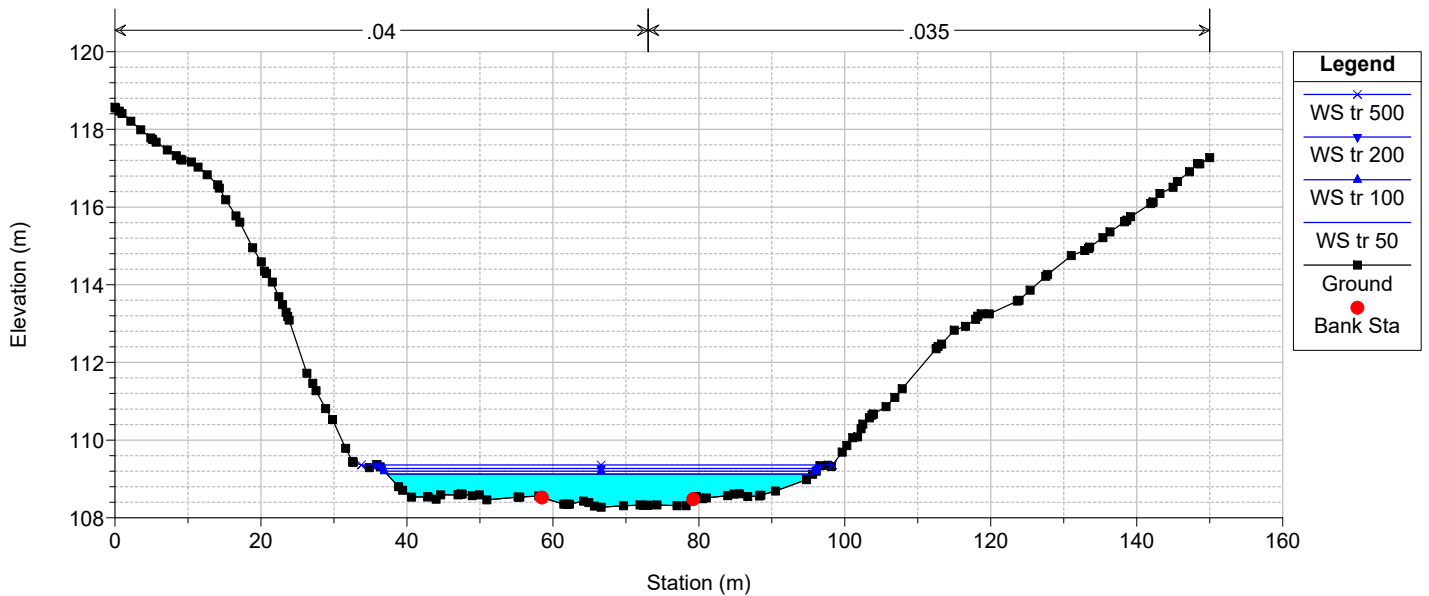
River = Sa Pedraia Reach = Asta RS = 1860 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

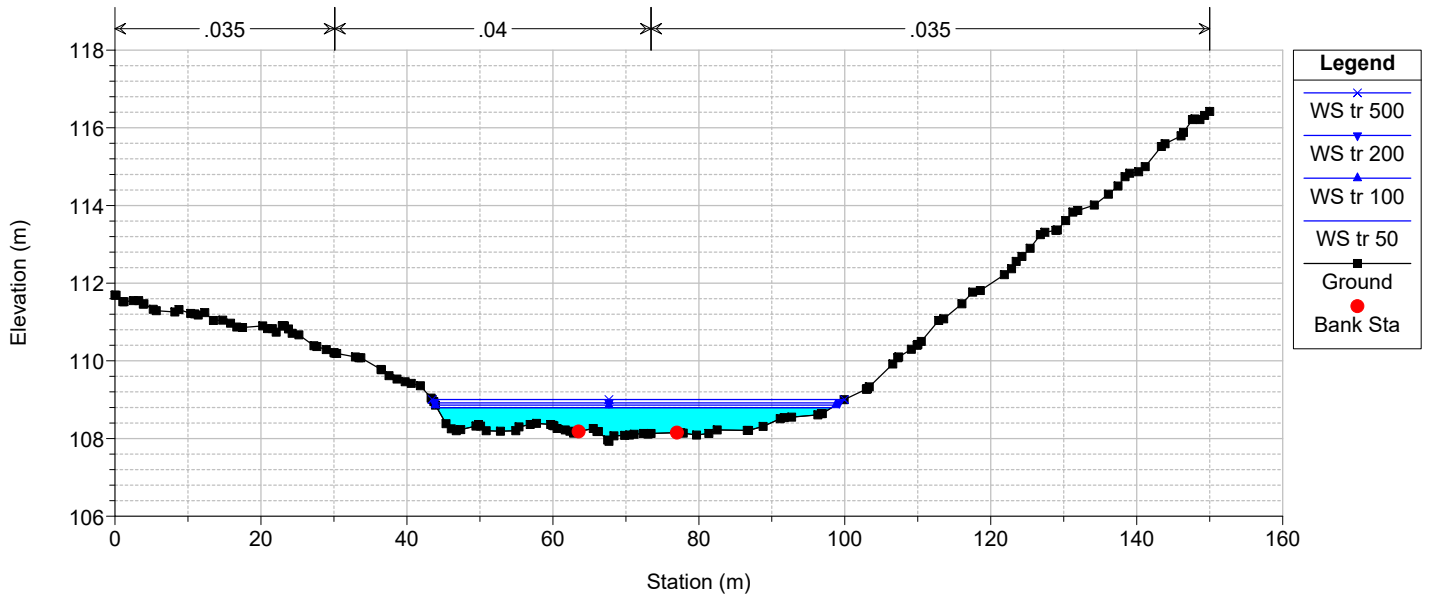
River = Sa Pedraia Reach = Asta RS = 1830 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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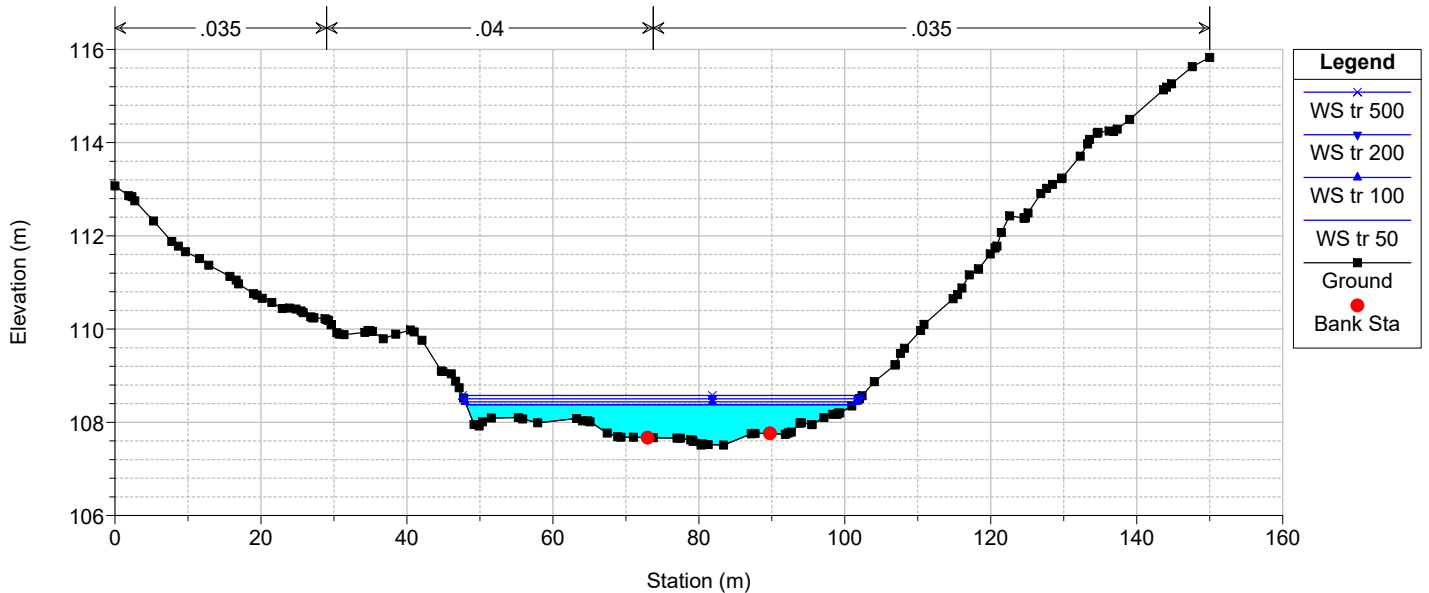
River = Sa Pedraia Reach = Asta RS = 1800 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

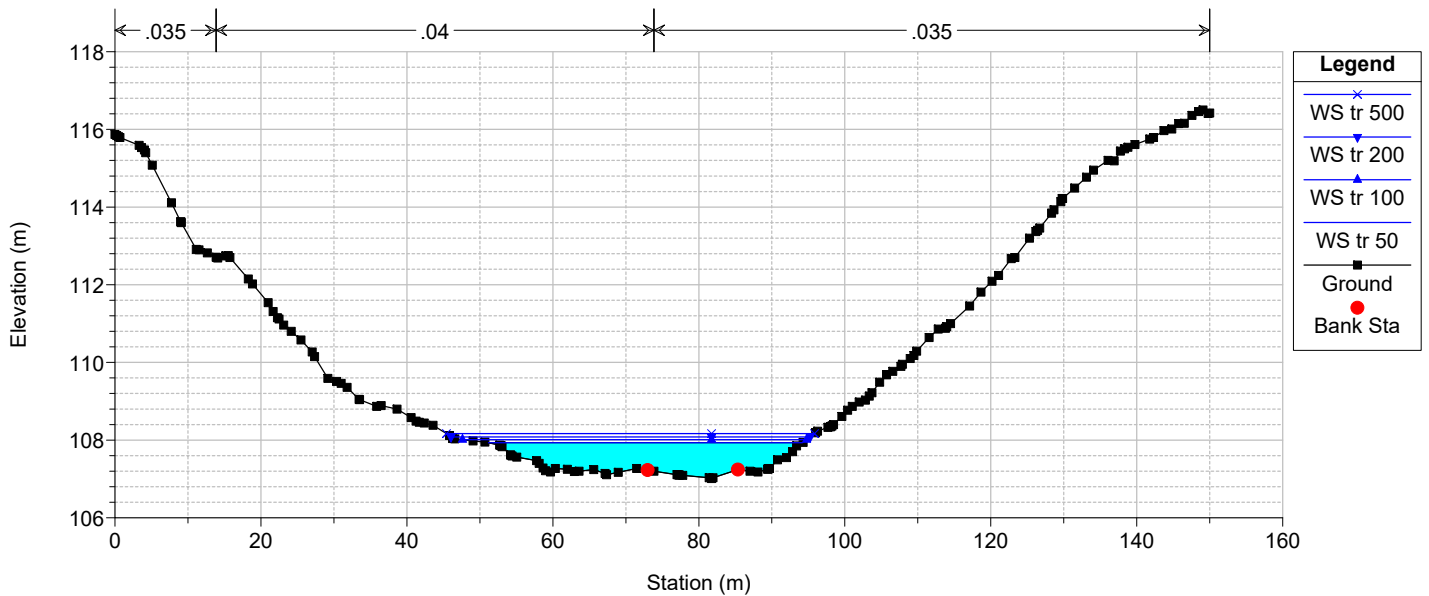
River = Sa Pedraia Reach = Asta RS = 1770 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

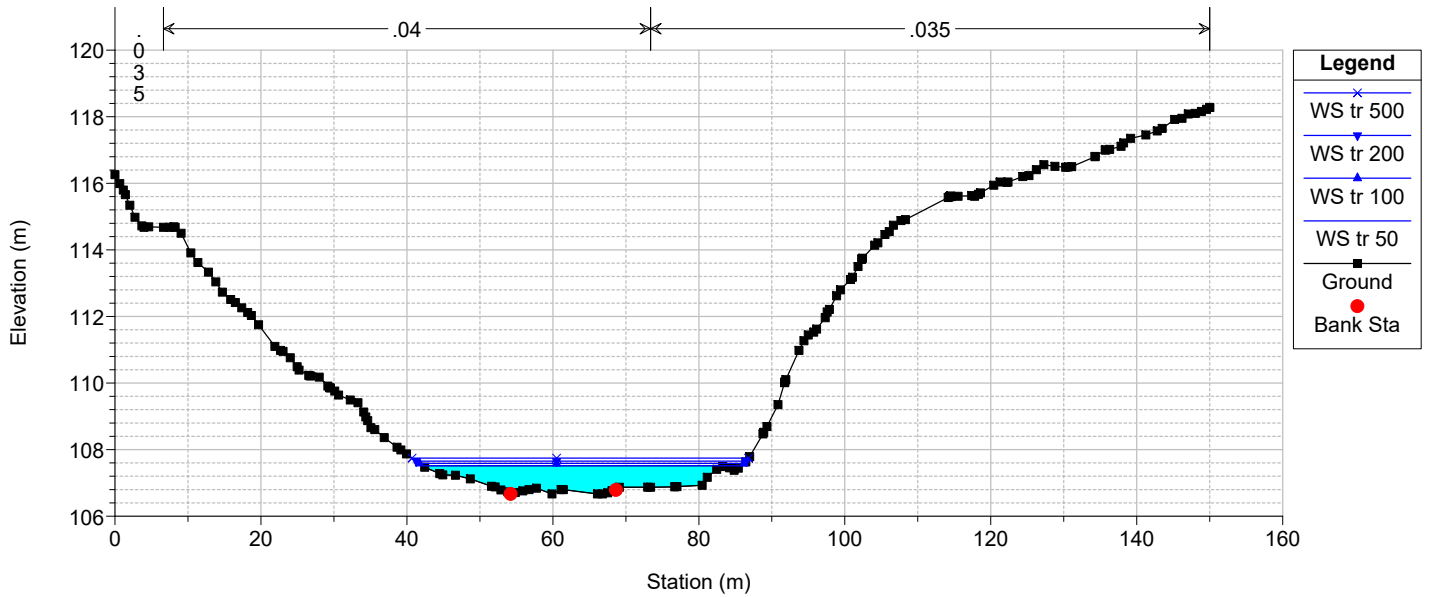
River = Sa Pedraia Reach = Asta RS = 1740 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

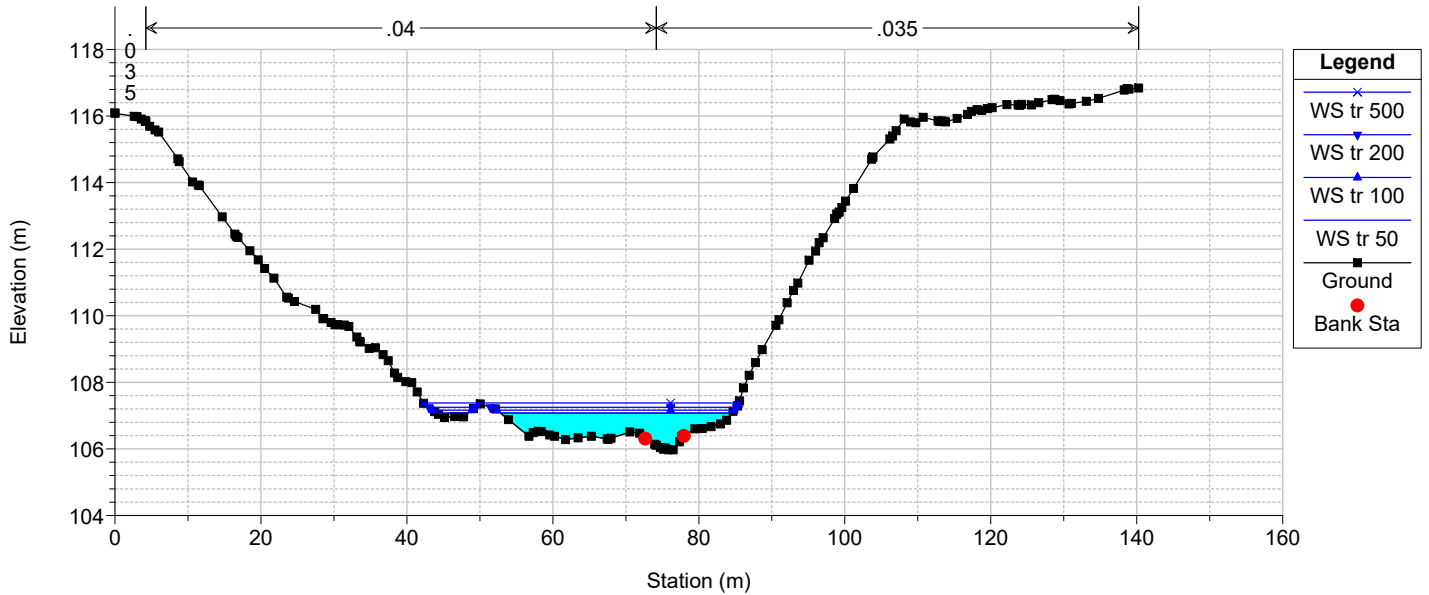
River = Sa Pedraia Reach = Asta RS = 1710 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

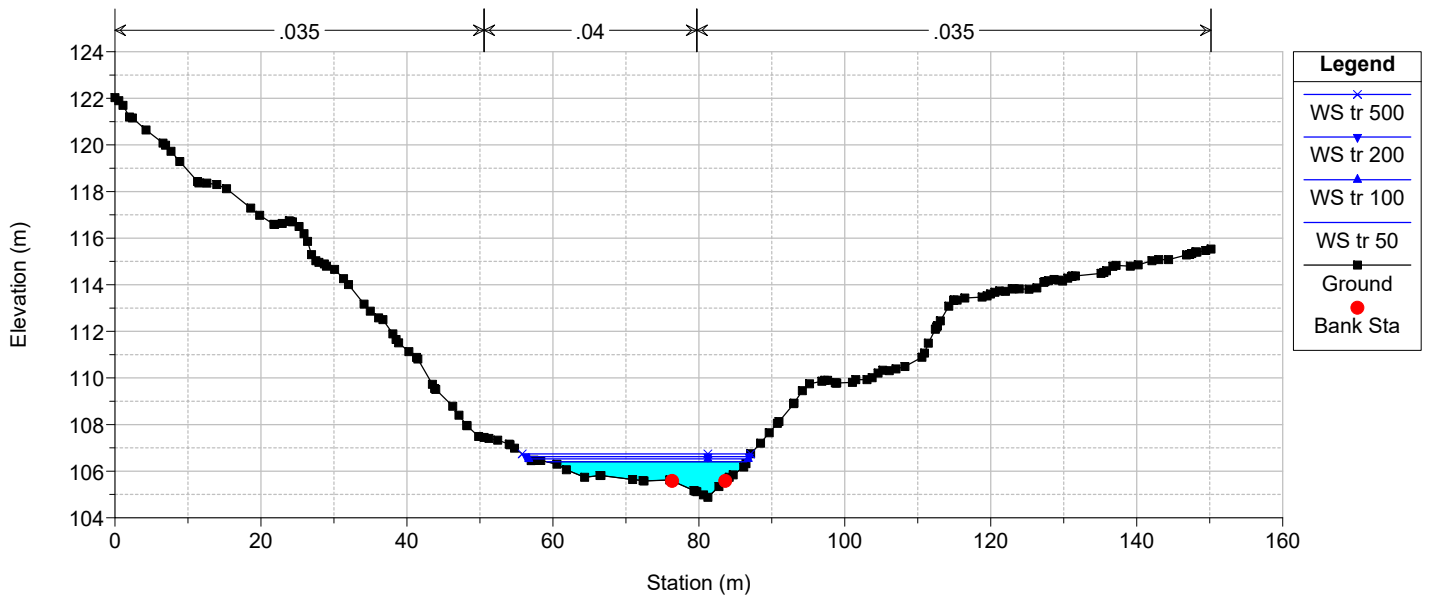
River = Sa Pedraia Reach = Asta RS = 1692.966 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

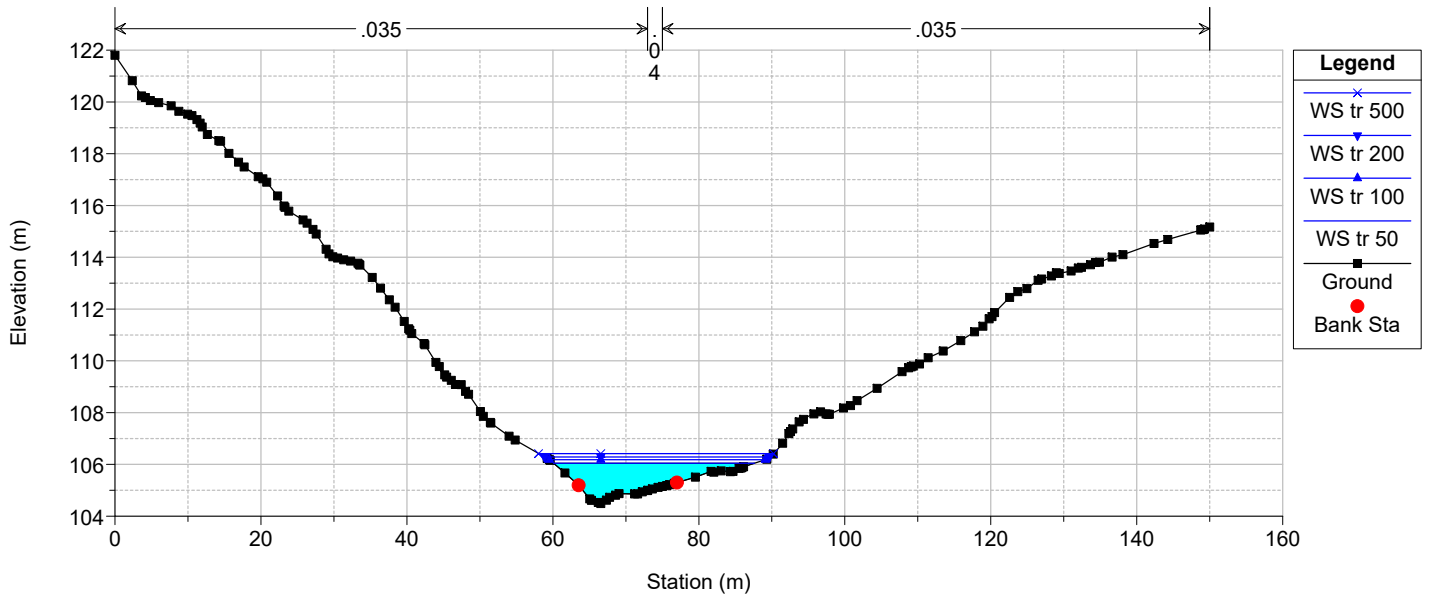
River = Sa Pedraia Reach = Asta RS = 1655.349 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

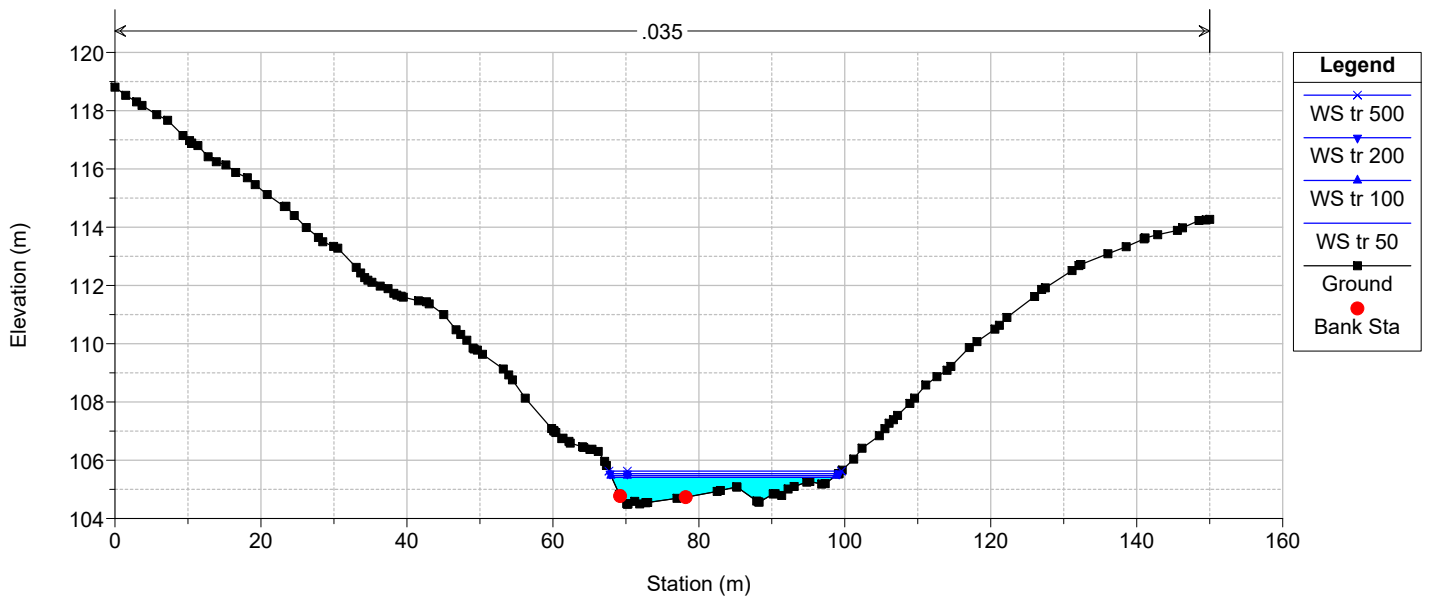
River = Sa Pedraia Reach = Asta RS = 1620 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

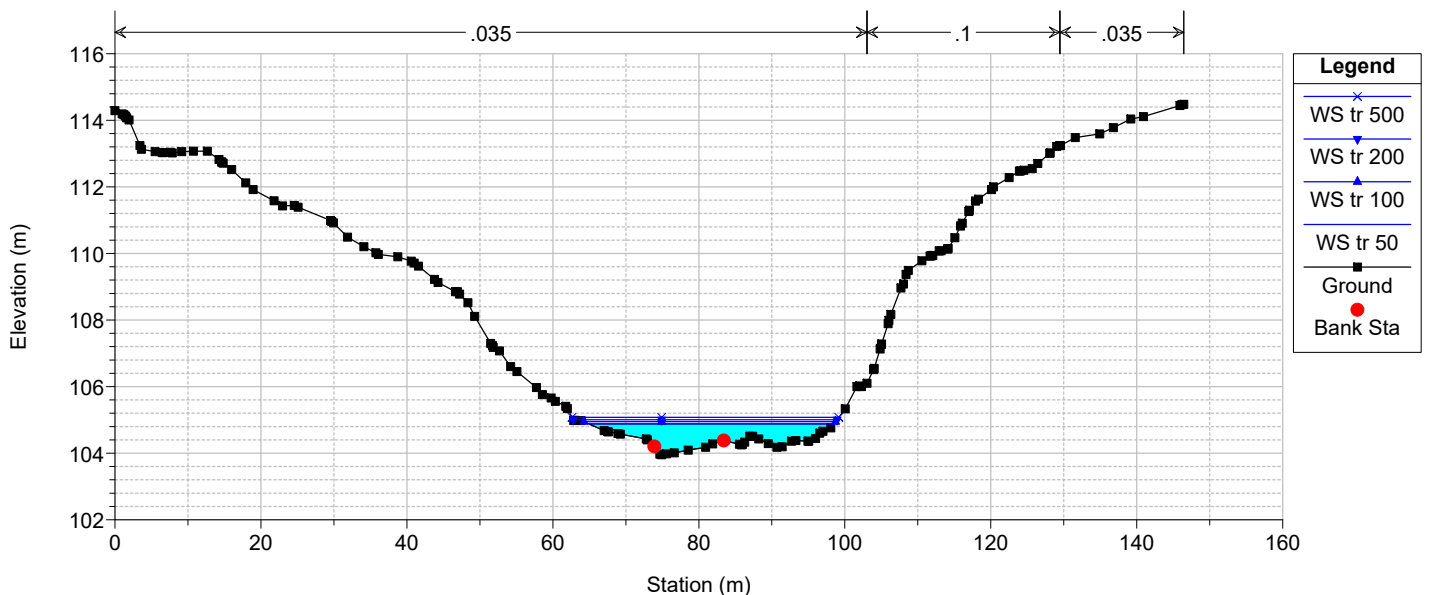
River = Sa Pedraia Reach = Asta RS = 1590 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

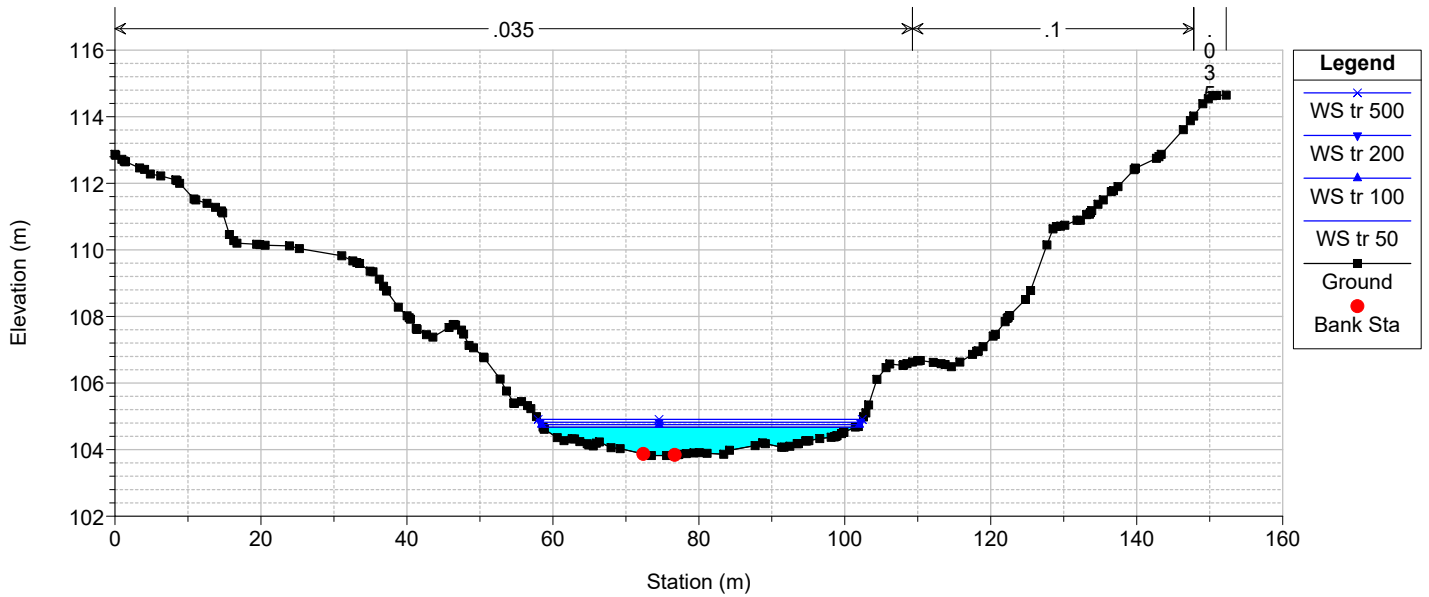
River = Sa Pedraia Reach = Asta RS = 1568.747 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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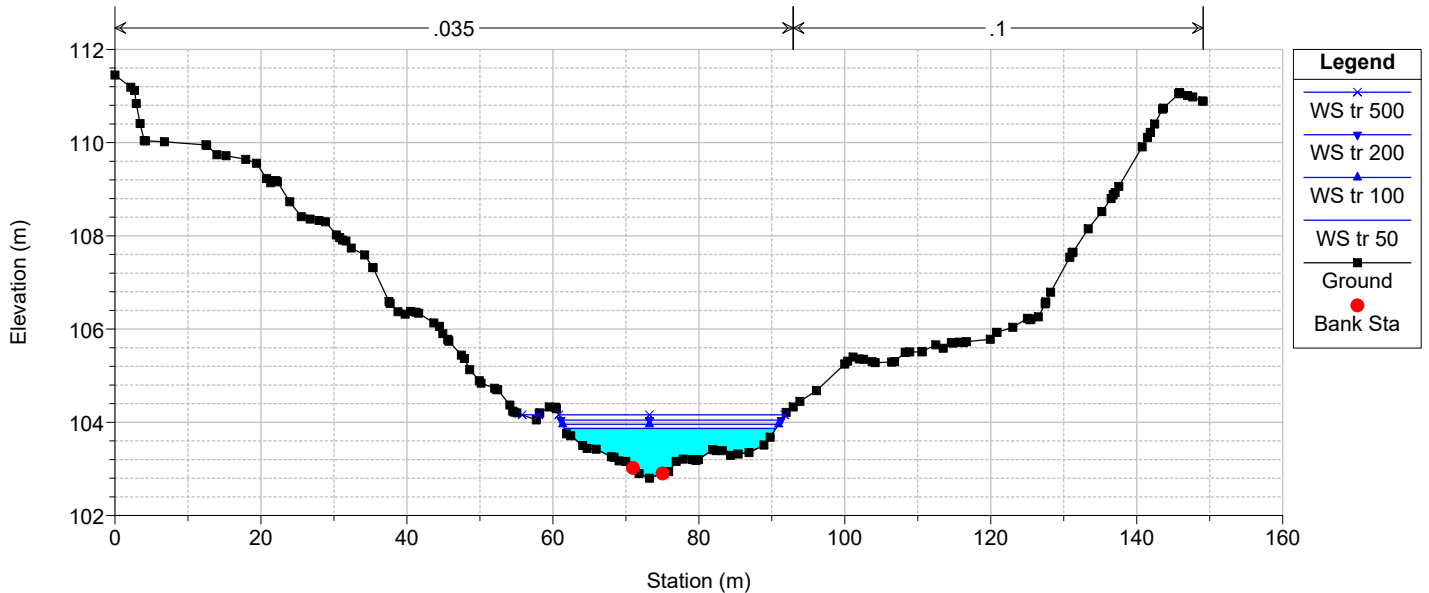
River = Sa Pedraia Reach = Asta RS = 1539.891 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

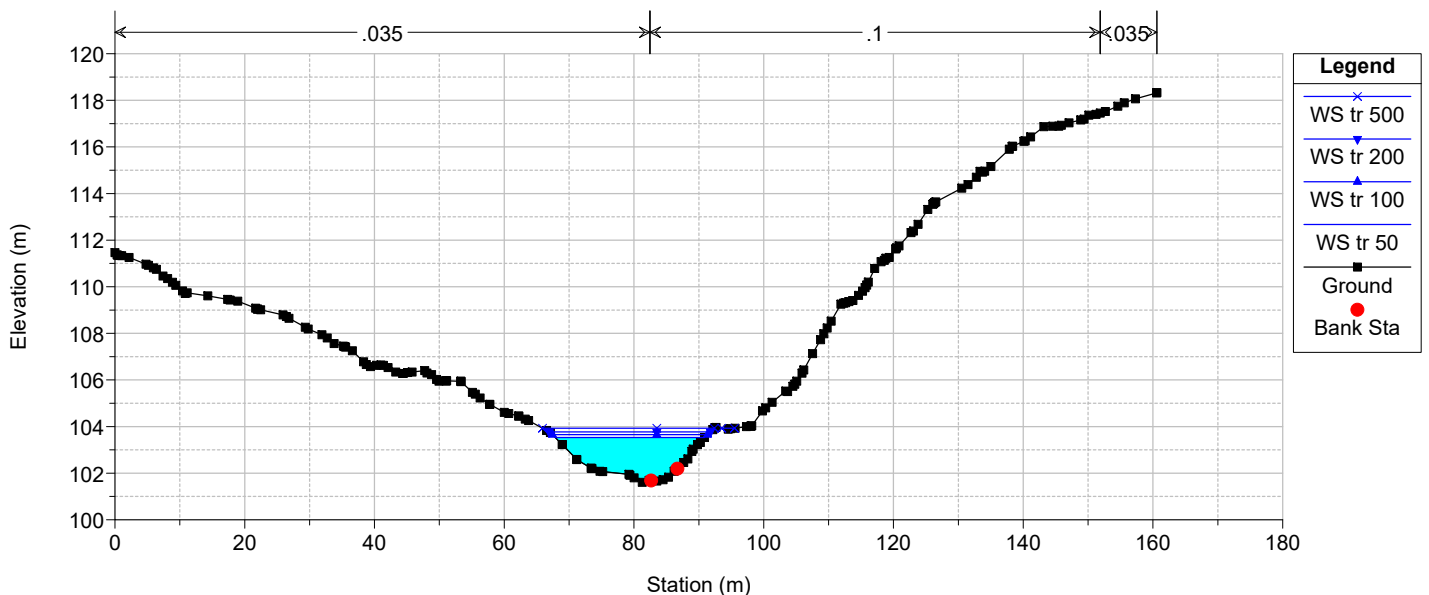
River = Sa Pedraia Reach = Asta RS = 1512.893 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

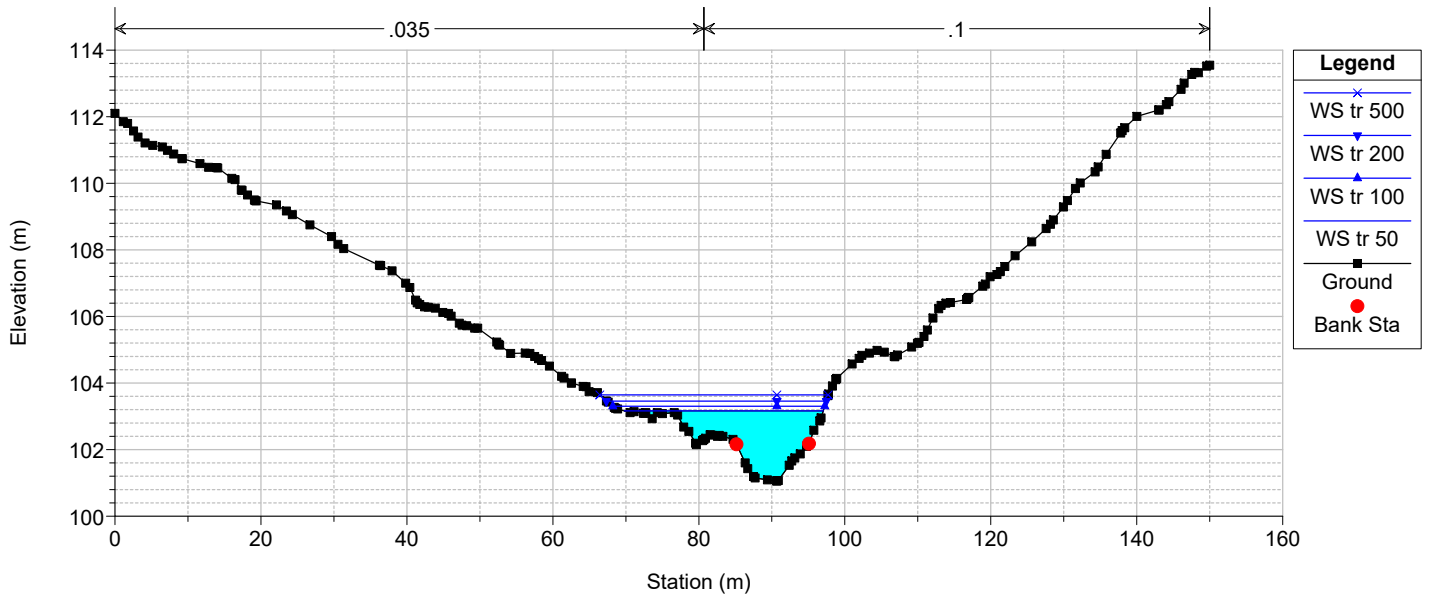
River = Sa Pedraia Reach = Asta RS = 1458.075 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

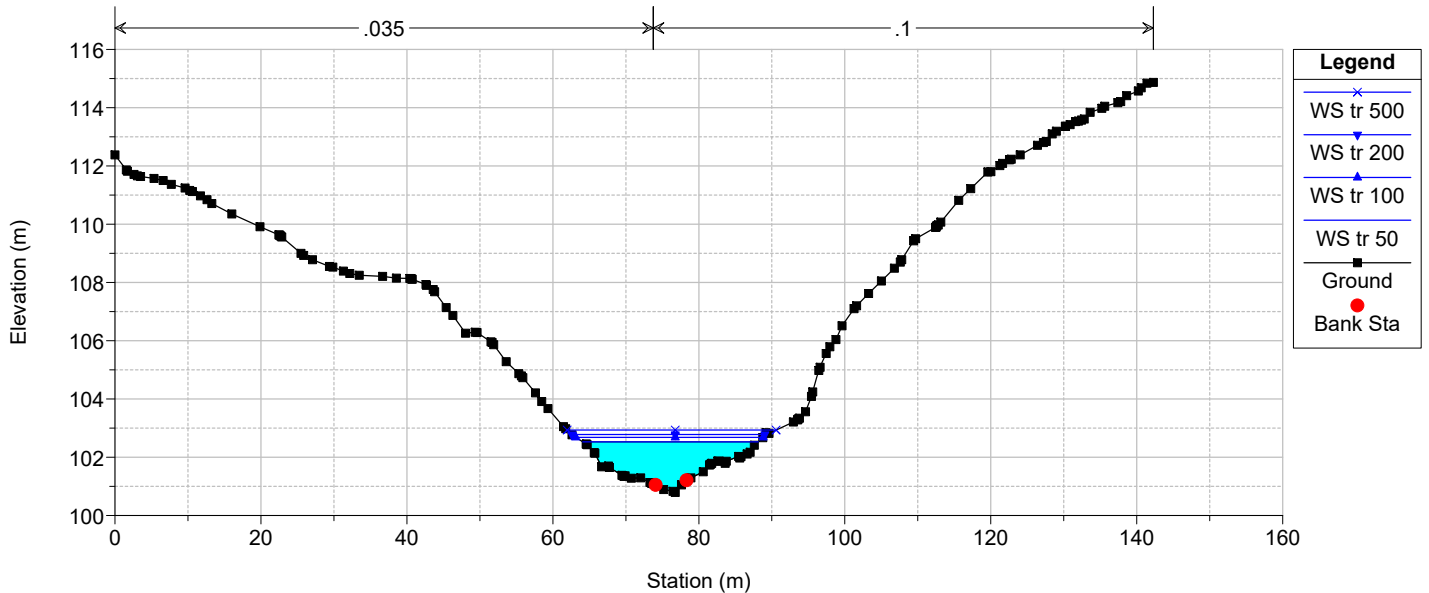
River = Sa Pedraia Reach = Asta RS = 1424.567 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

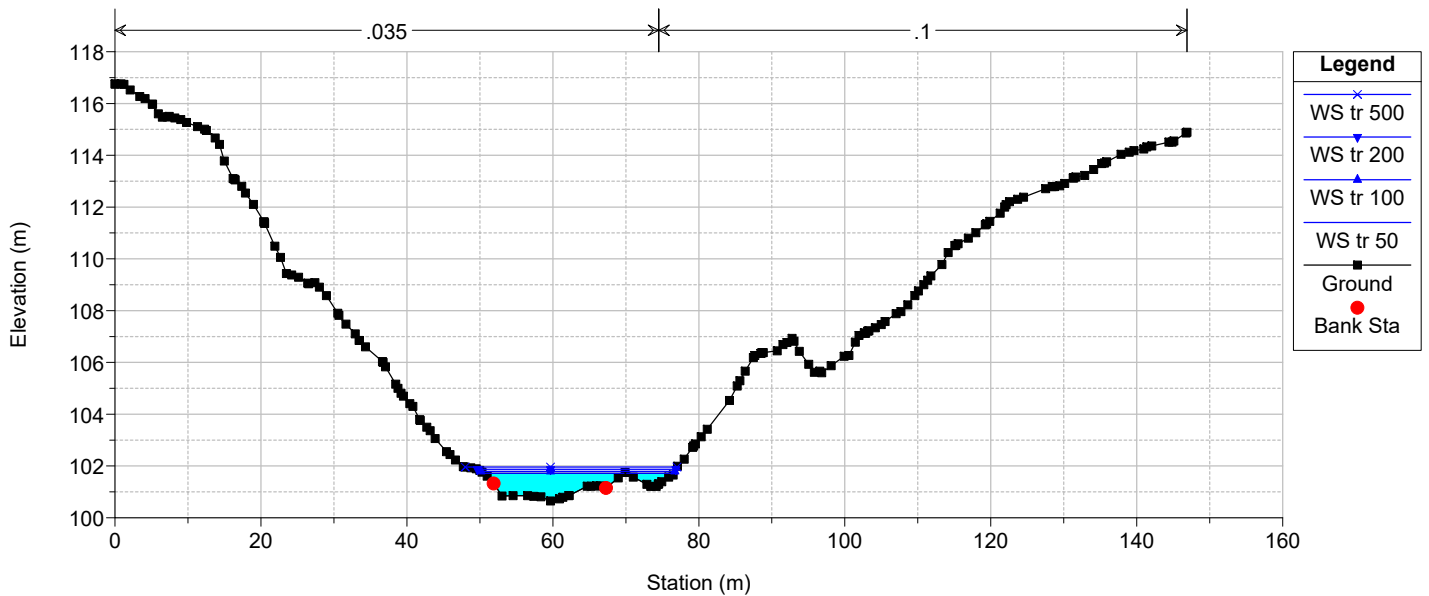
River = Sa Pedraia Reach = Asta RS = 1407.179 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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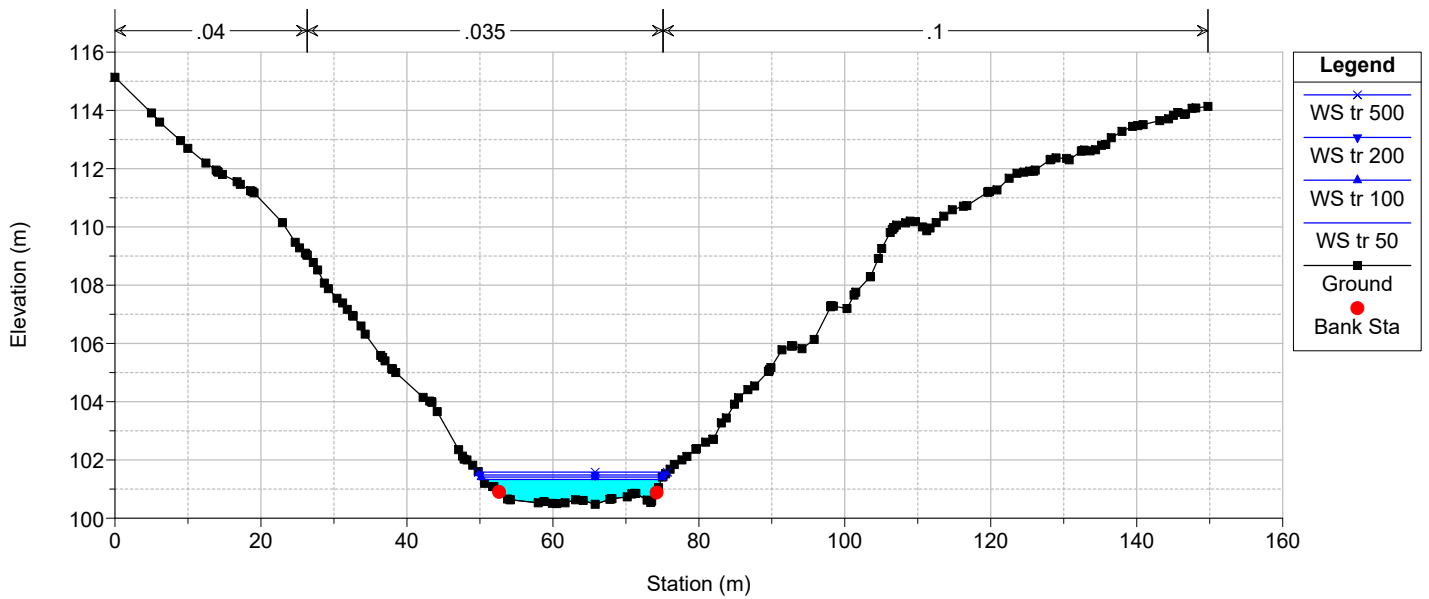
River = Sa Pedraia Reach = Asta RS = 1387.105 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

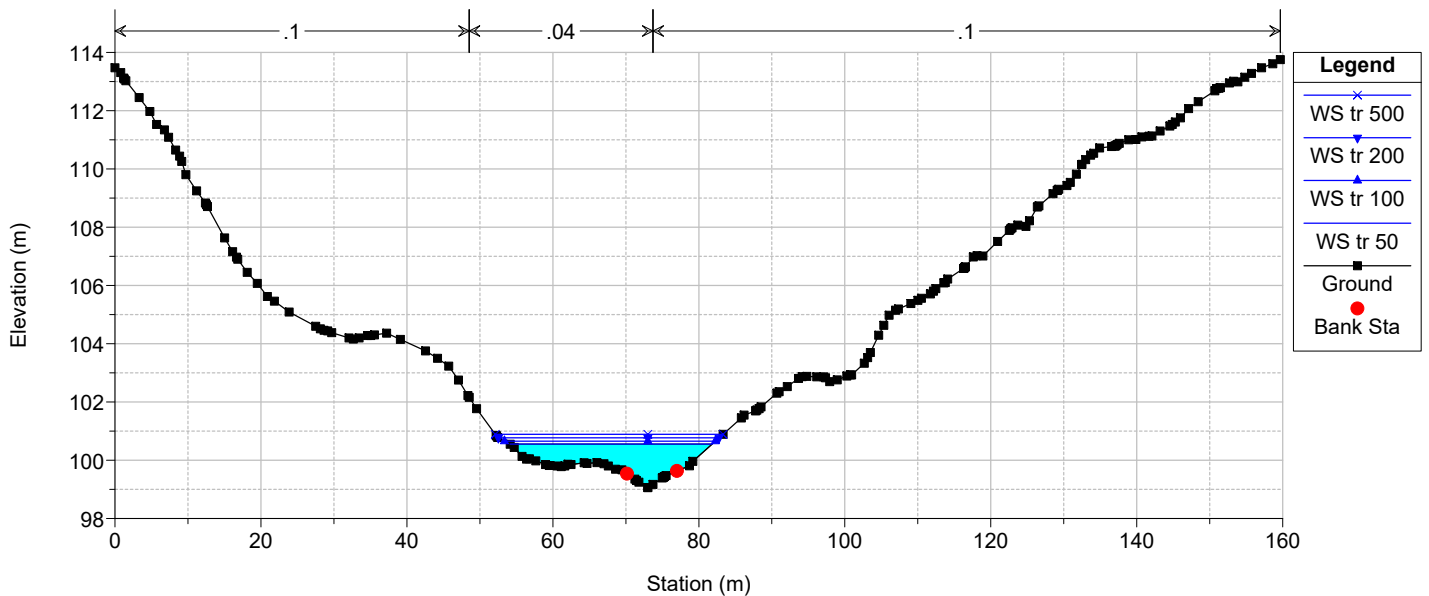
River = Sa Pedraia Reach = Asta RS = 1367.61 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

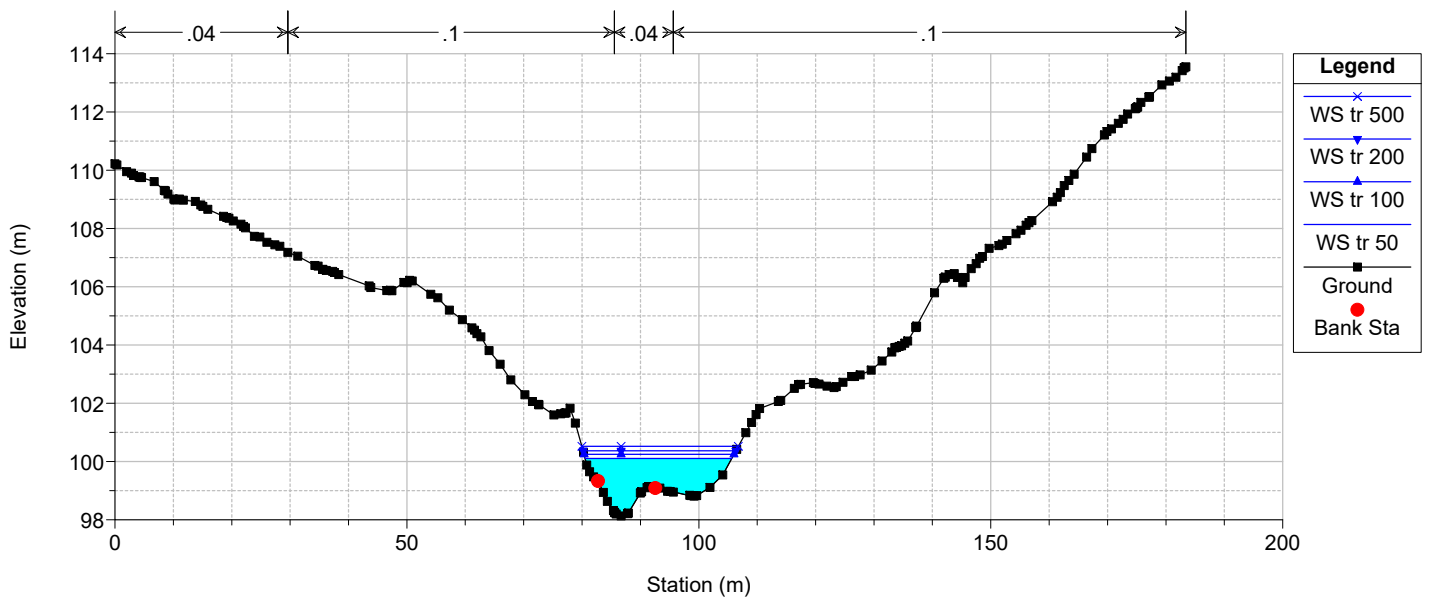
River = Sa Pedraia Reach = Asta RS = 1320.663 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

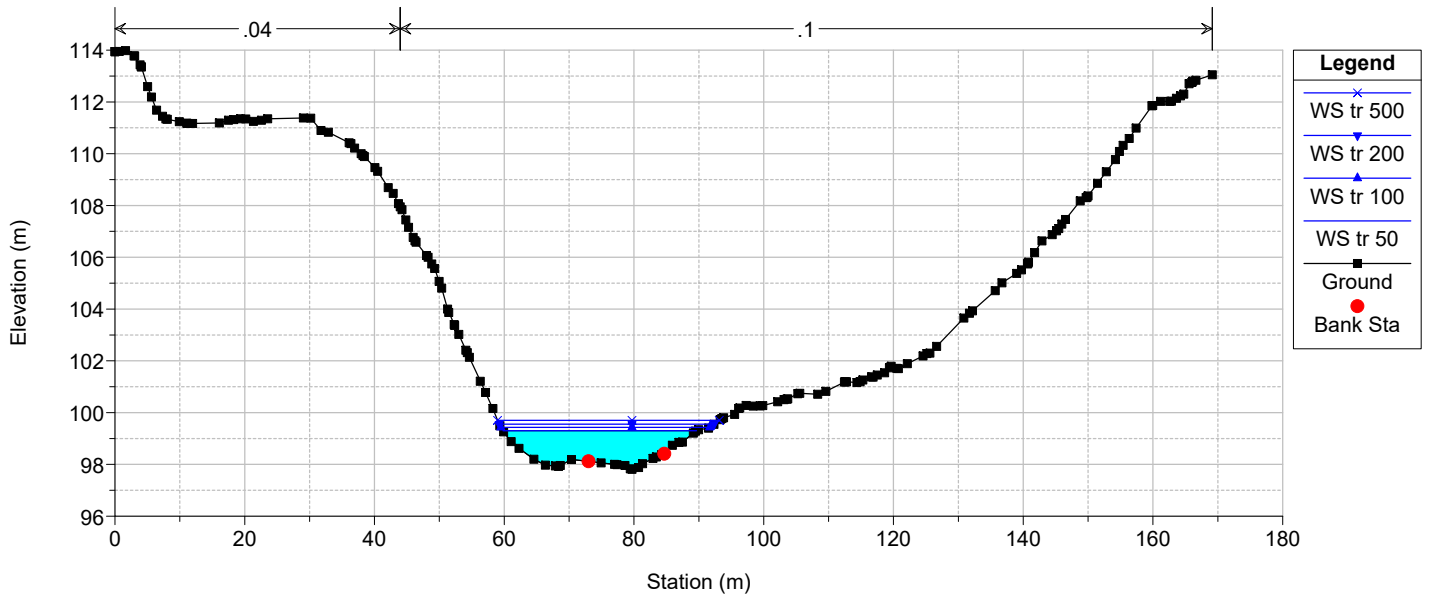
River = Sa Pedraia Reach = Asta RS = 1305.913 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

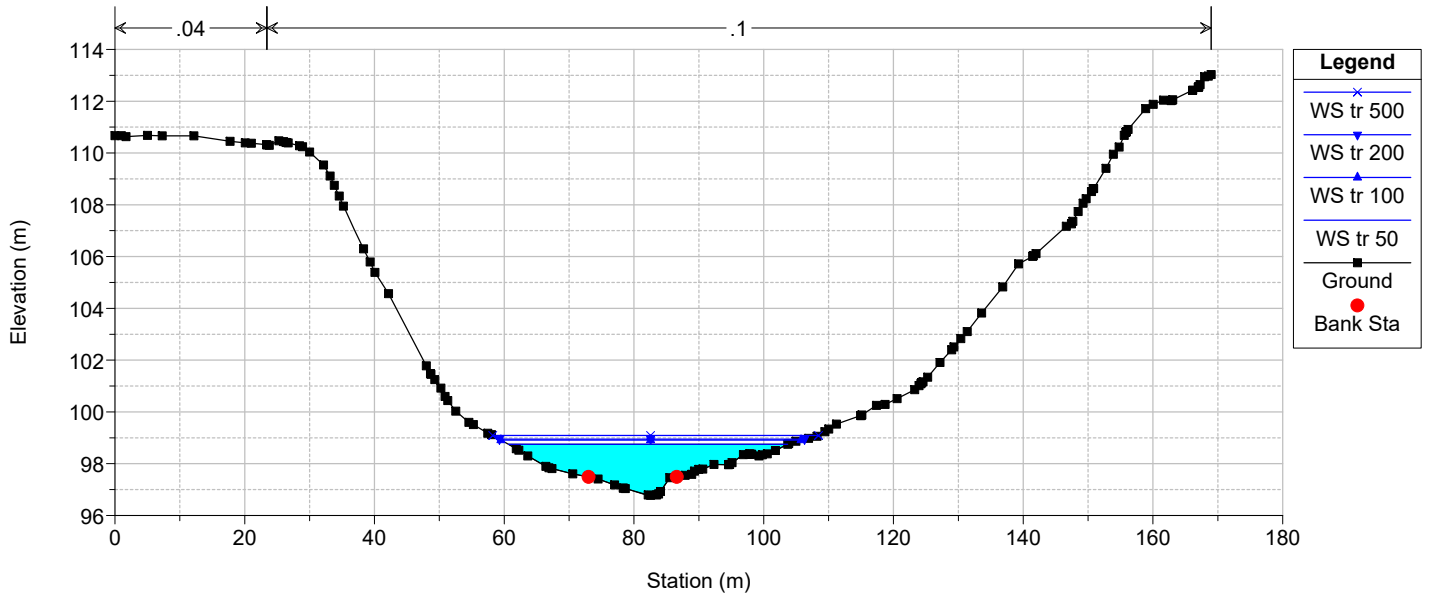
River = Sa Pedraia Reach = Asta RS = 1261.62 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

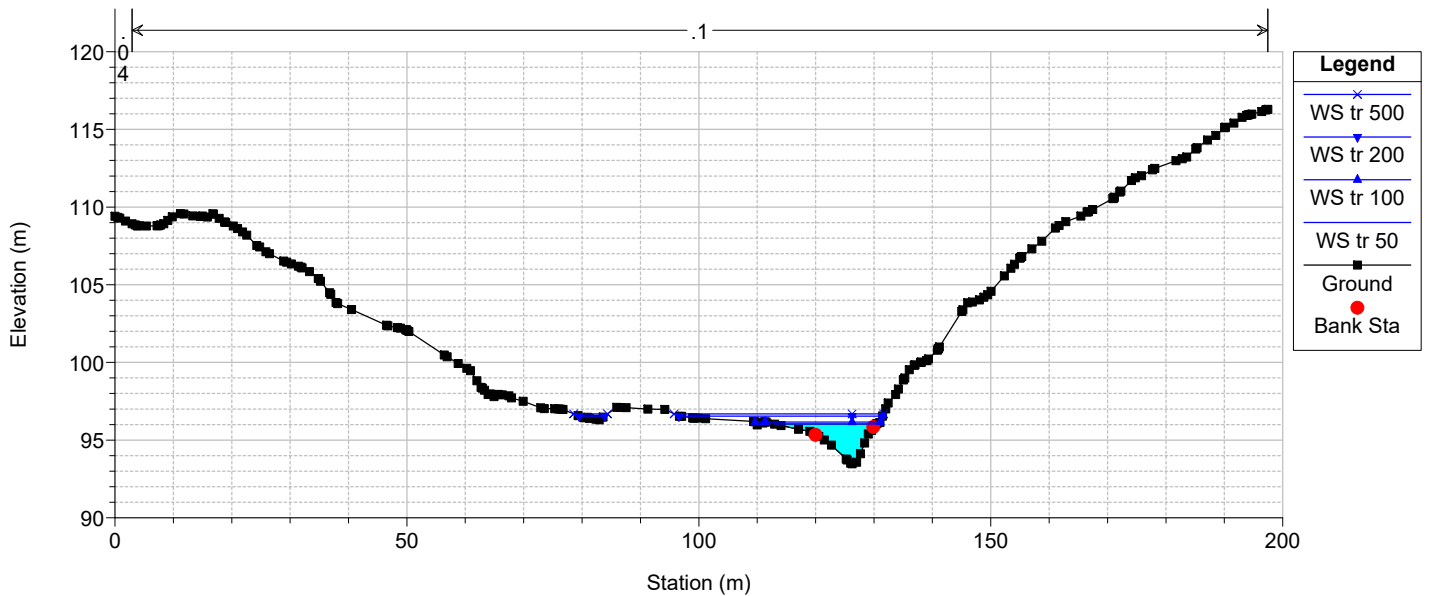
River = Sa Pedraia Reach = Asta RS = 1230.855 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

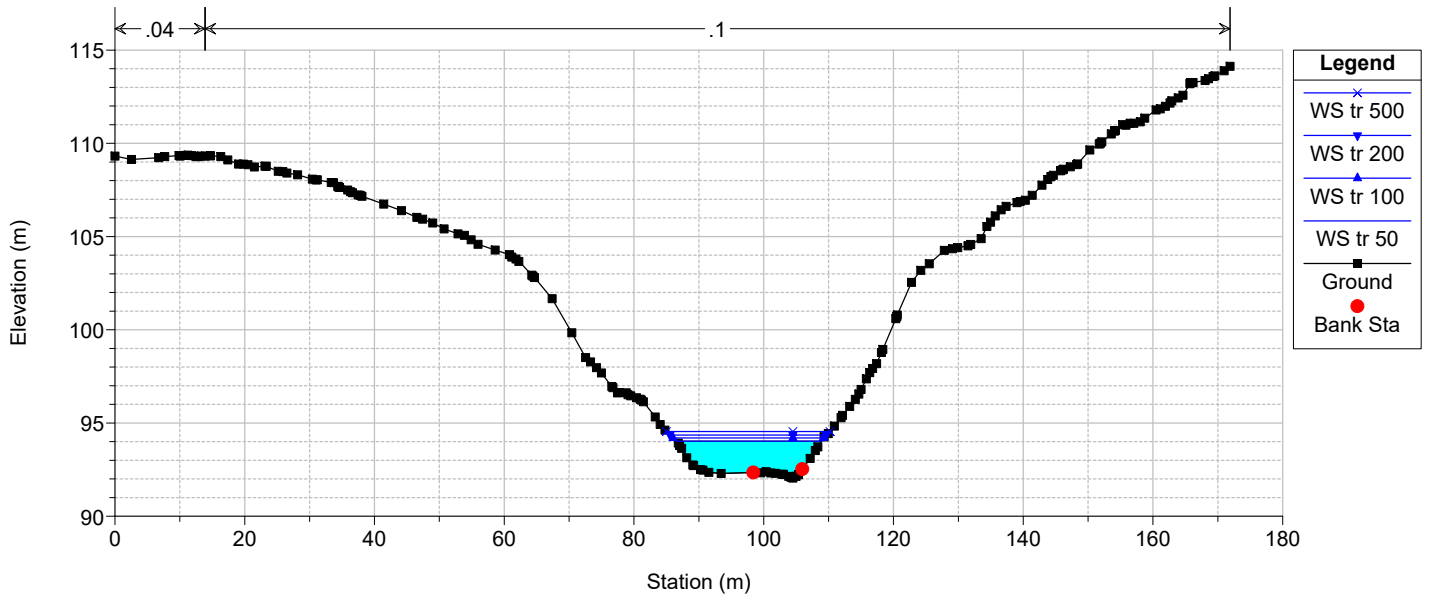
River = Sa Pedraia Reach = Asta RS = 1148.453 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

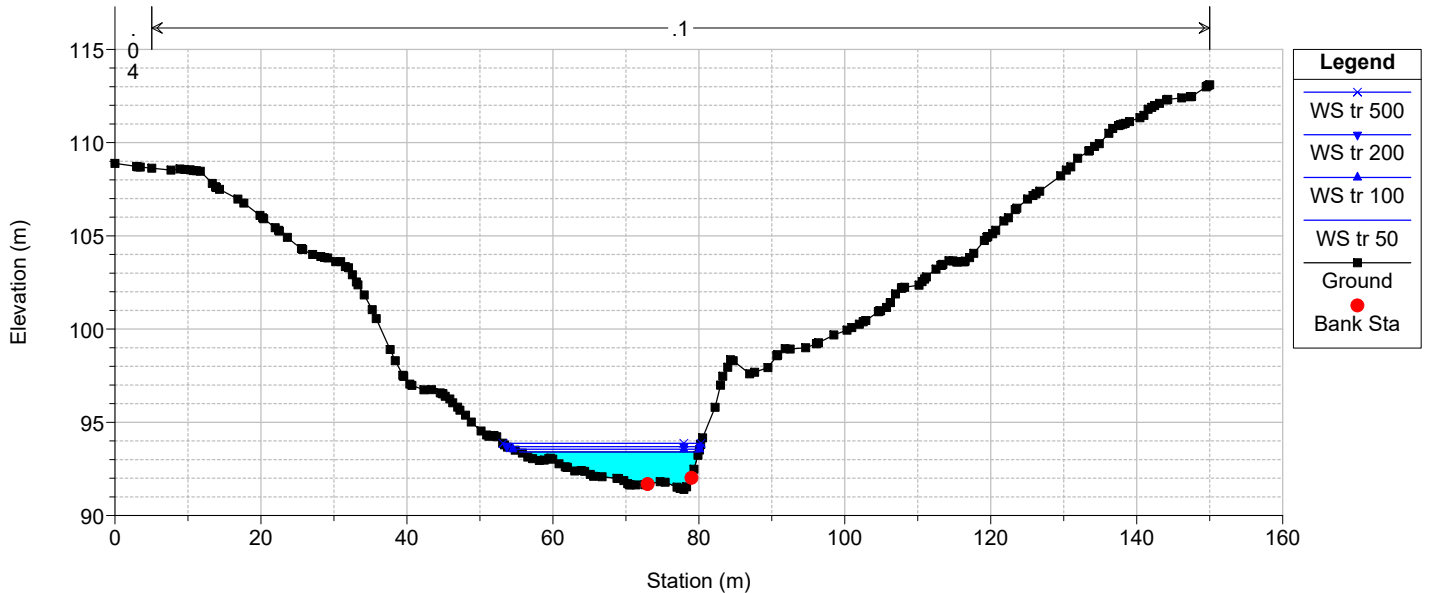
River = Sa Pedraia Reach = Asta RS = 1076.725 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



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Geom:apedraia25102016 Flow: 05022021

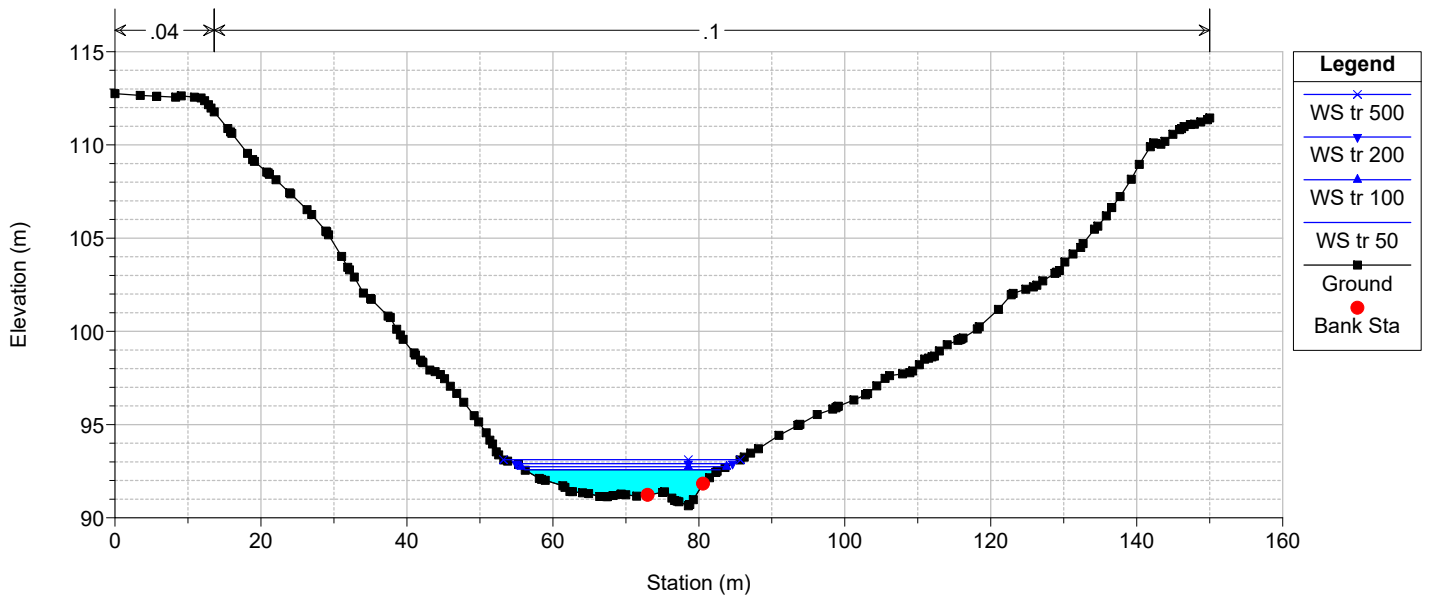
River = Sa Pedraia Reach = Asta RS = 1050 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

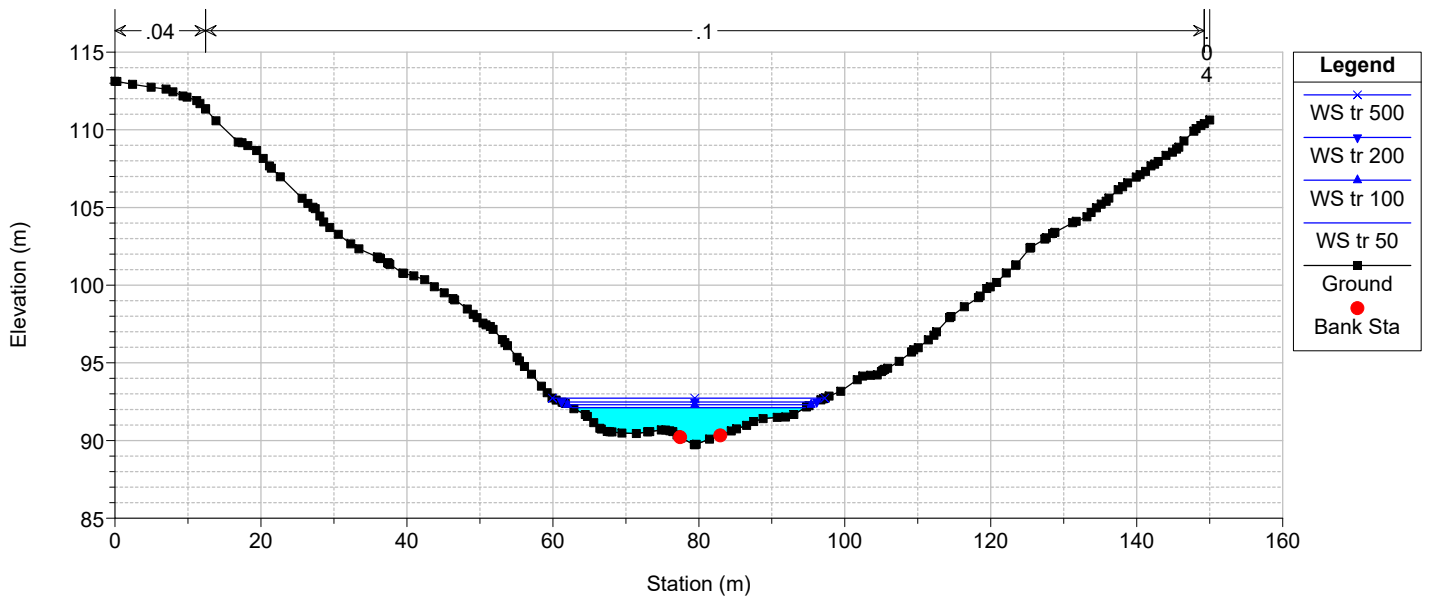
River = Sa Pedraia Reach = Asta RS = 1020 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

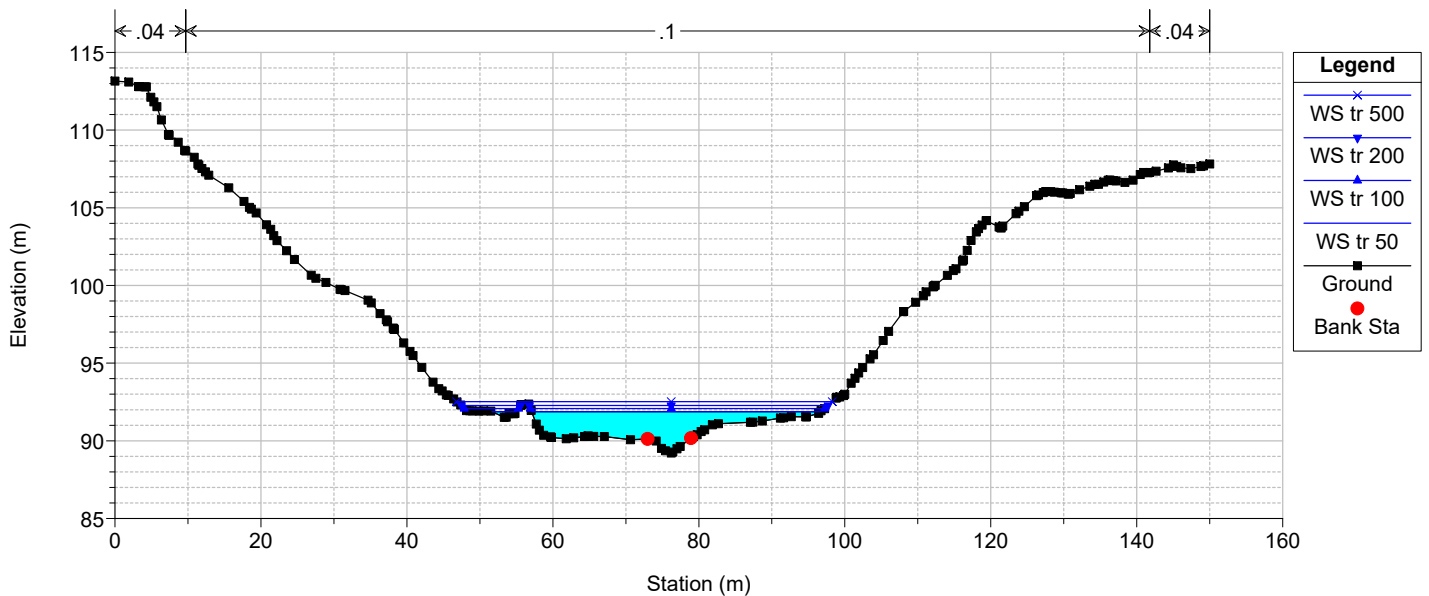
River = Sa Pedraia Reach = Asta RS = 989.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

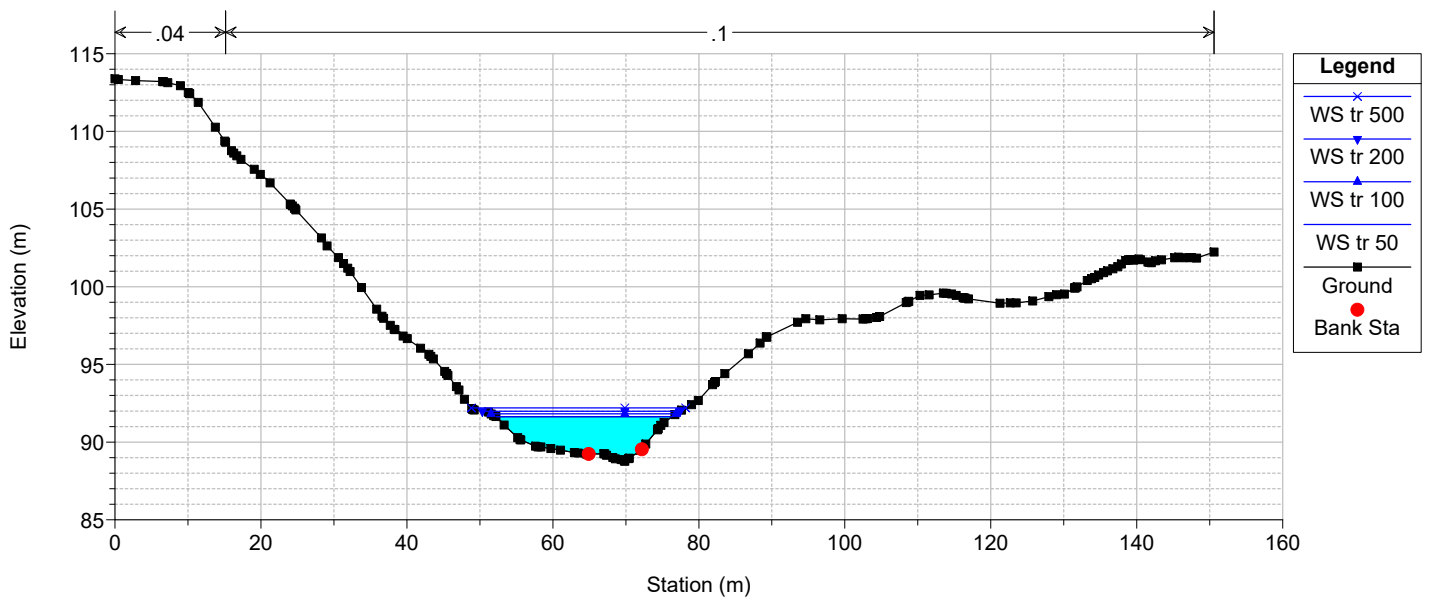
River = Sa Pedraia Reach = Asta RS = 960 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

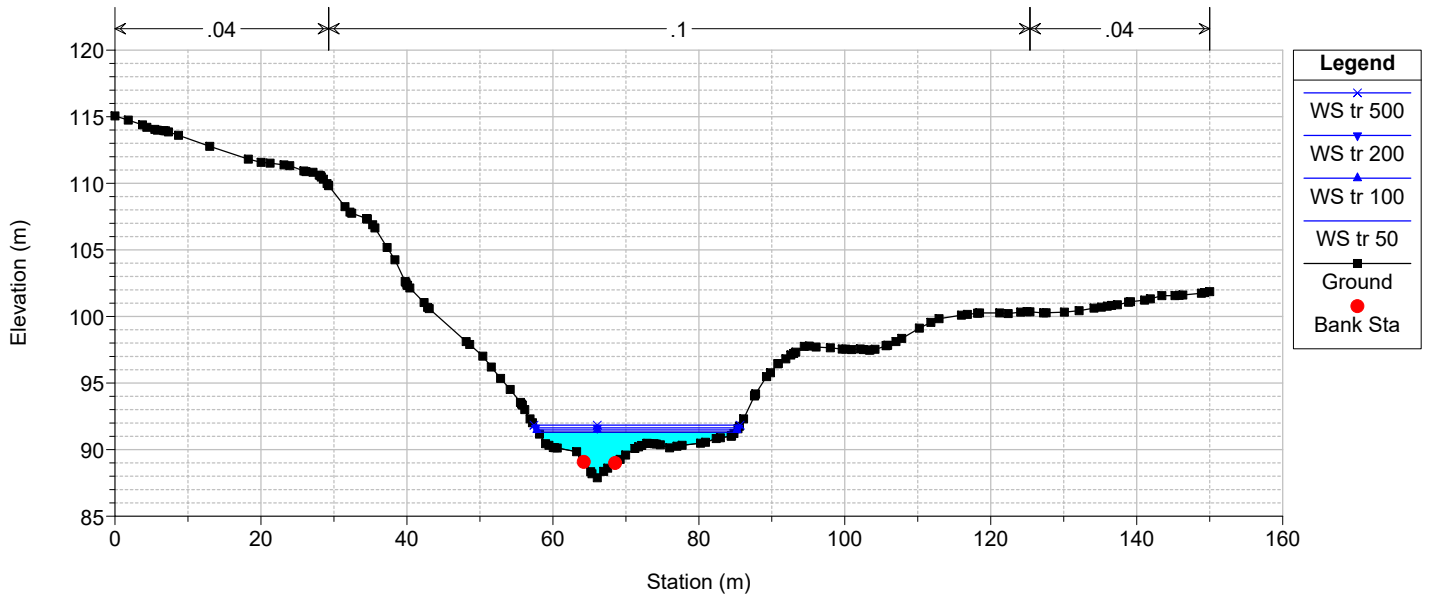
River = Sa Pedraia Reach = Asta RS = 926.5386 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

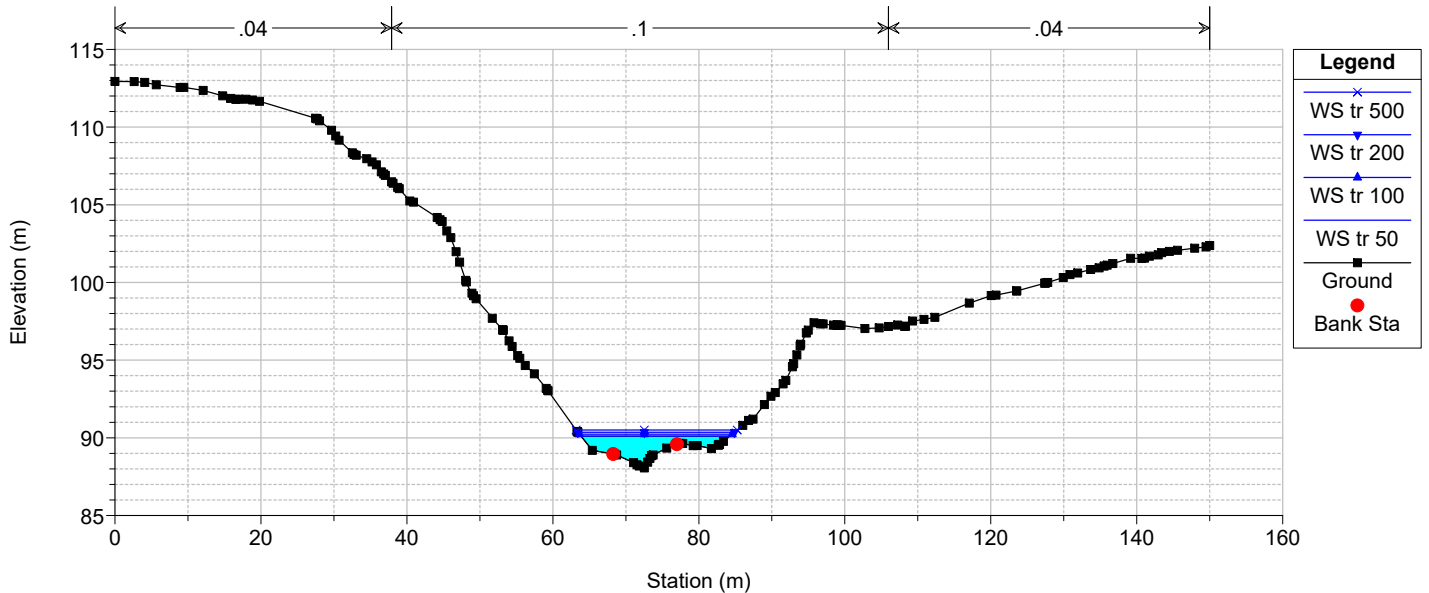
River = Sa Pedraia Reach = Asta RS = 900 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

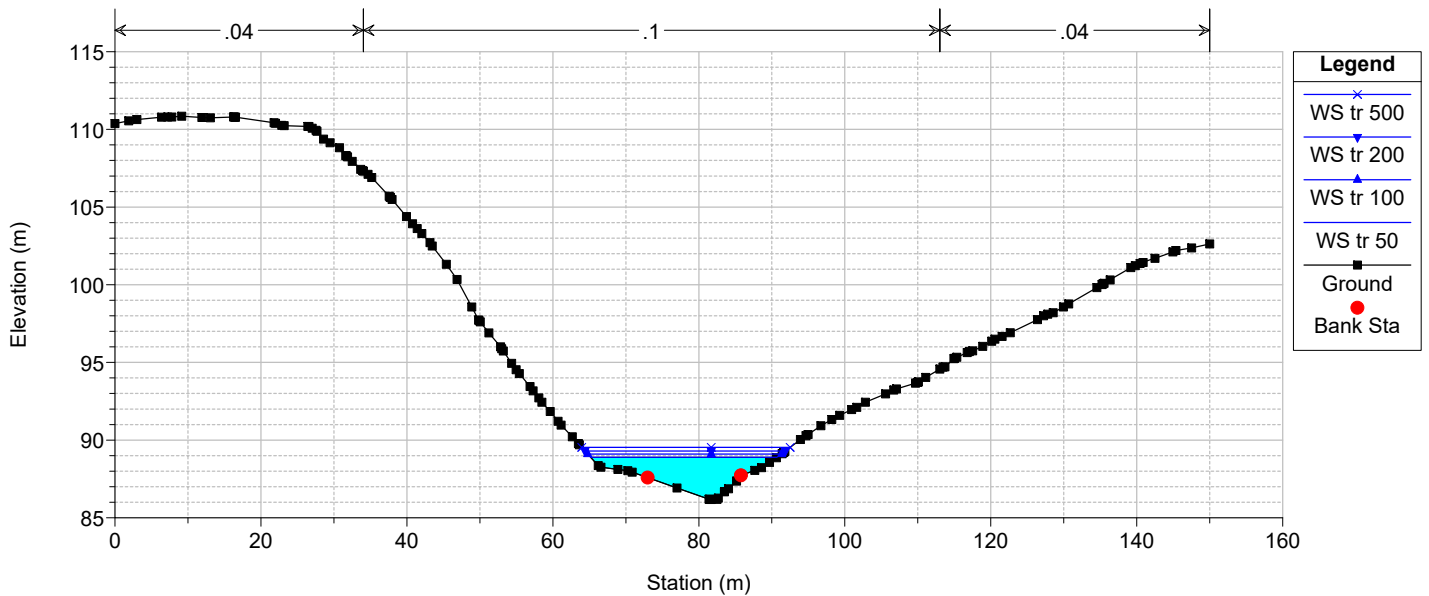
River = Sa Pedraia Reach = Asta RS = 870 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

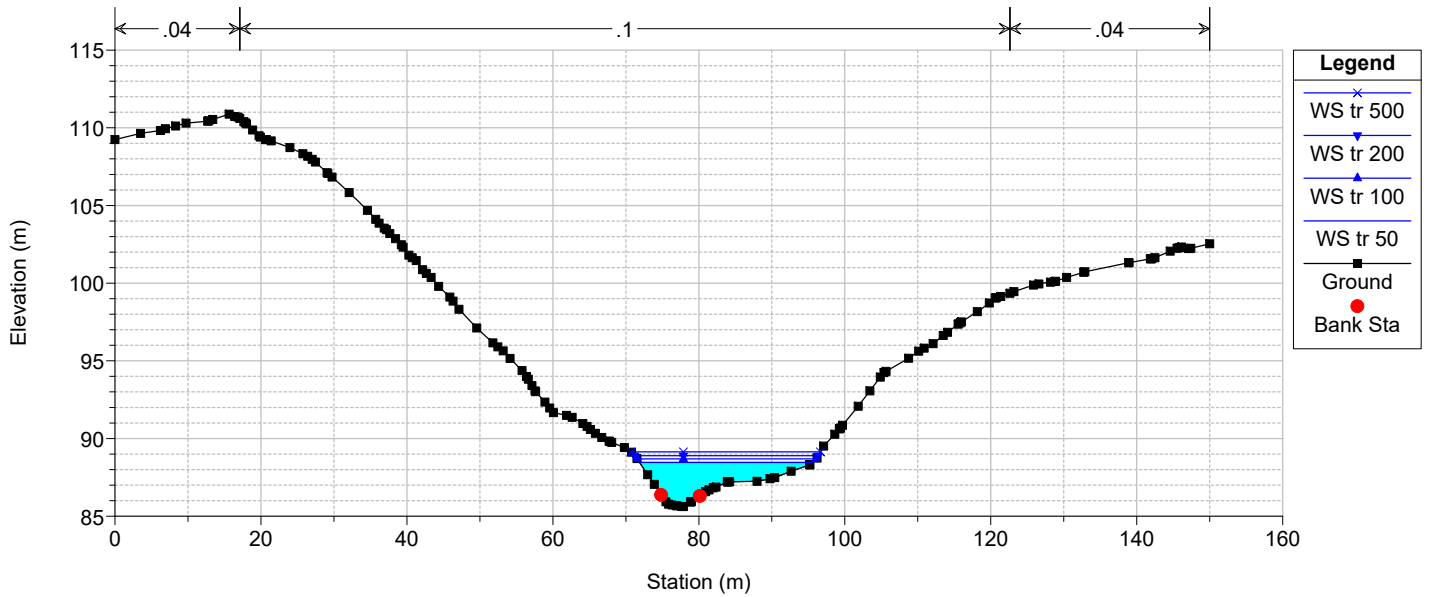
River = Sa Pedraia Reach = Asta RS = 840 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

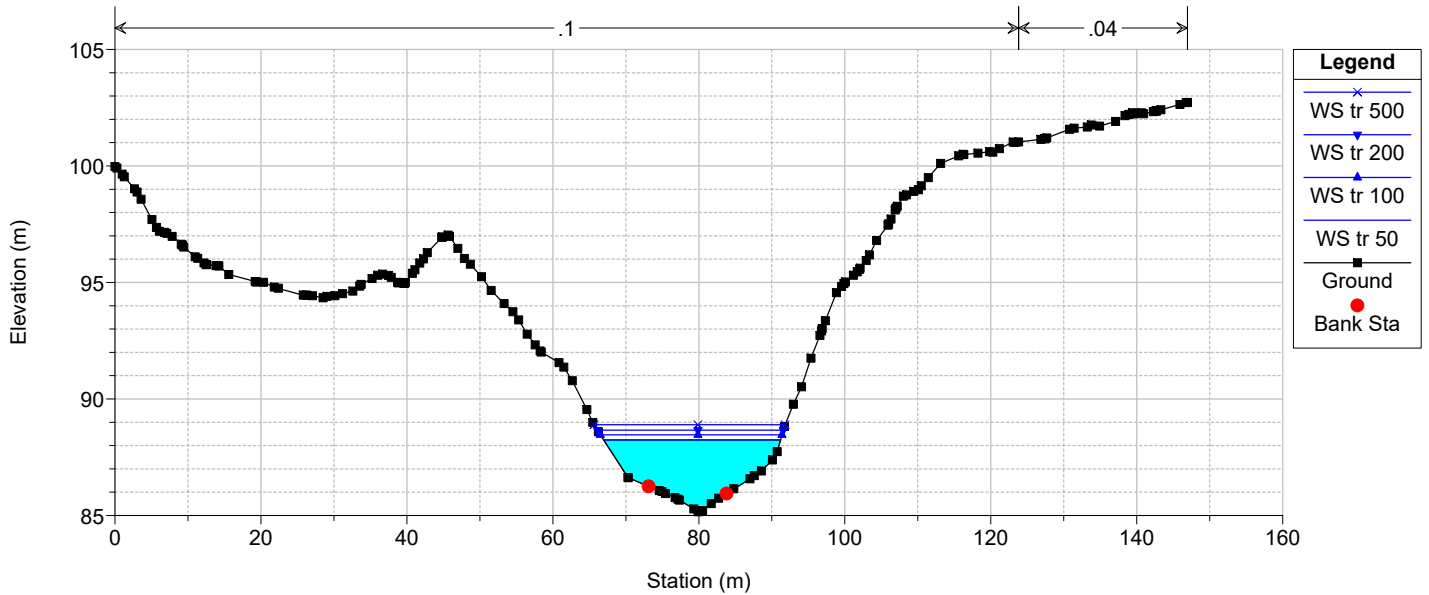
River = Sa Pedraia Reach = Asta RS = 809.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

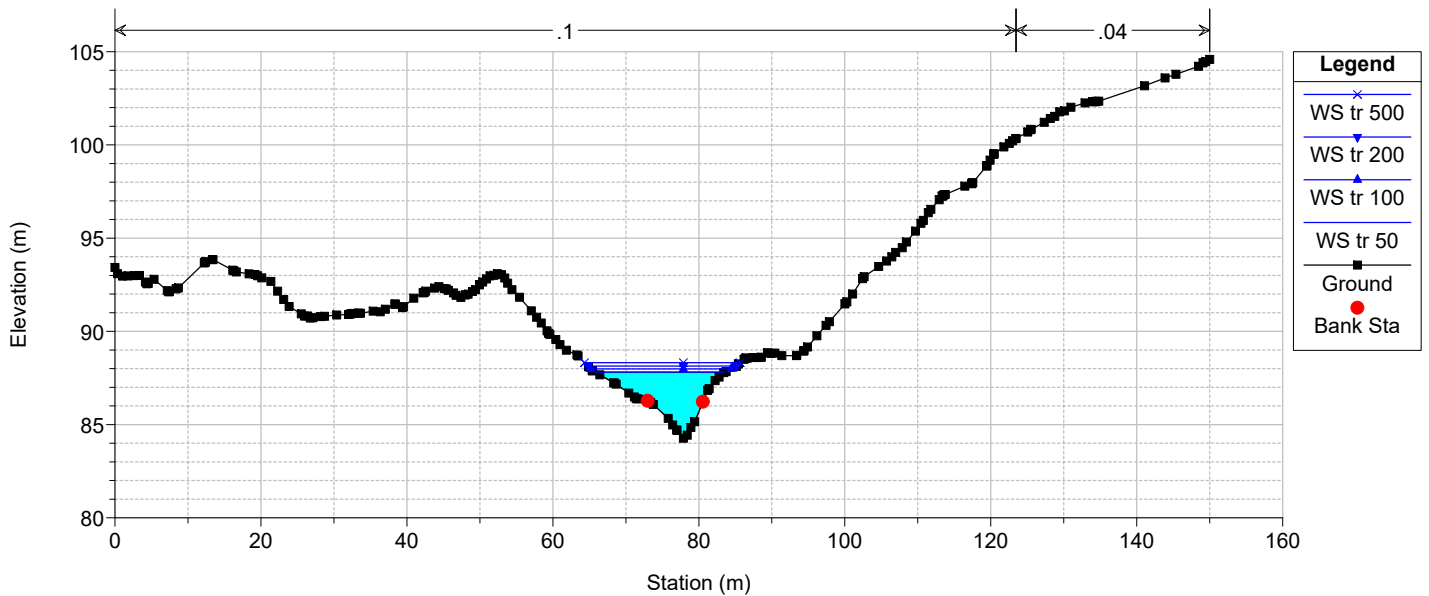
River = Sa Pedraia Reach = Asta RS = 775.7143 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

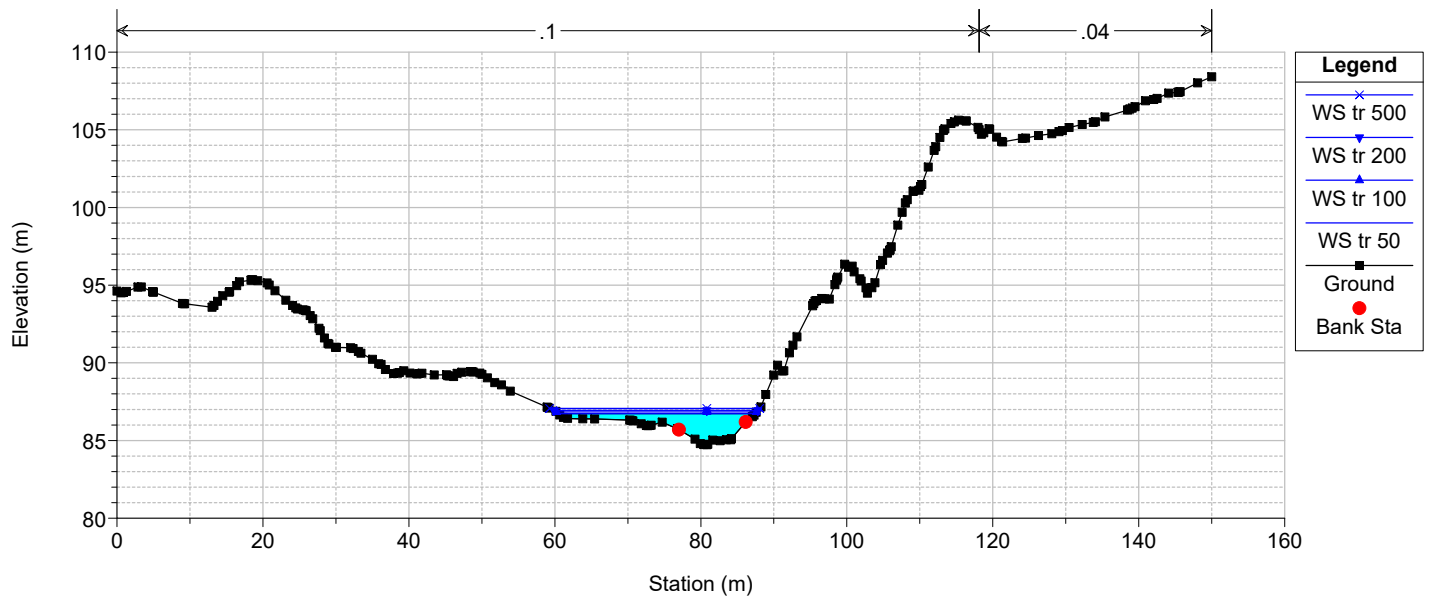
River = Sa Pedraia Reach = Asta RS = 750.0001 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

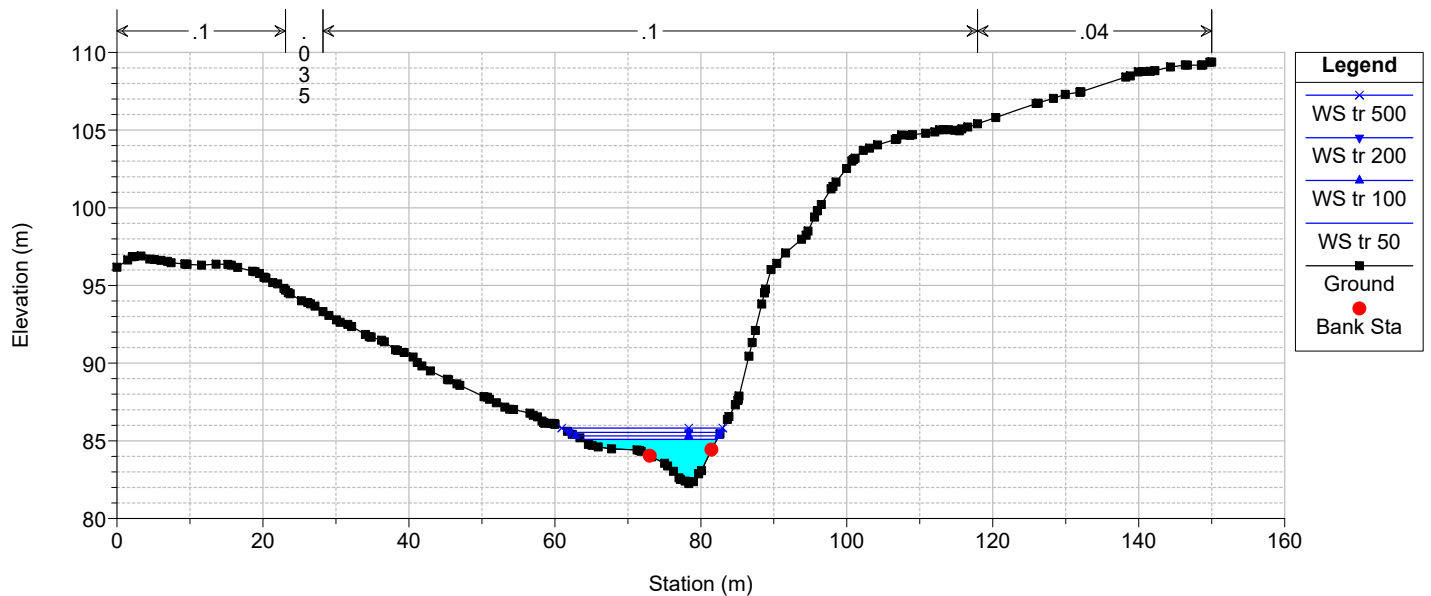
River = Sa Pedraia Reach = Asta RS = 719.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

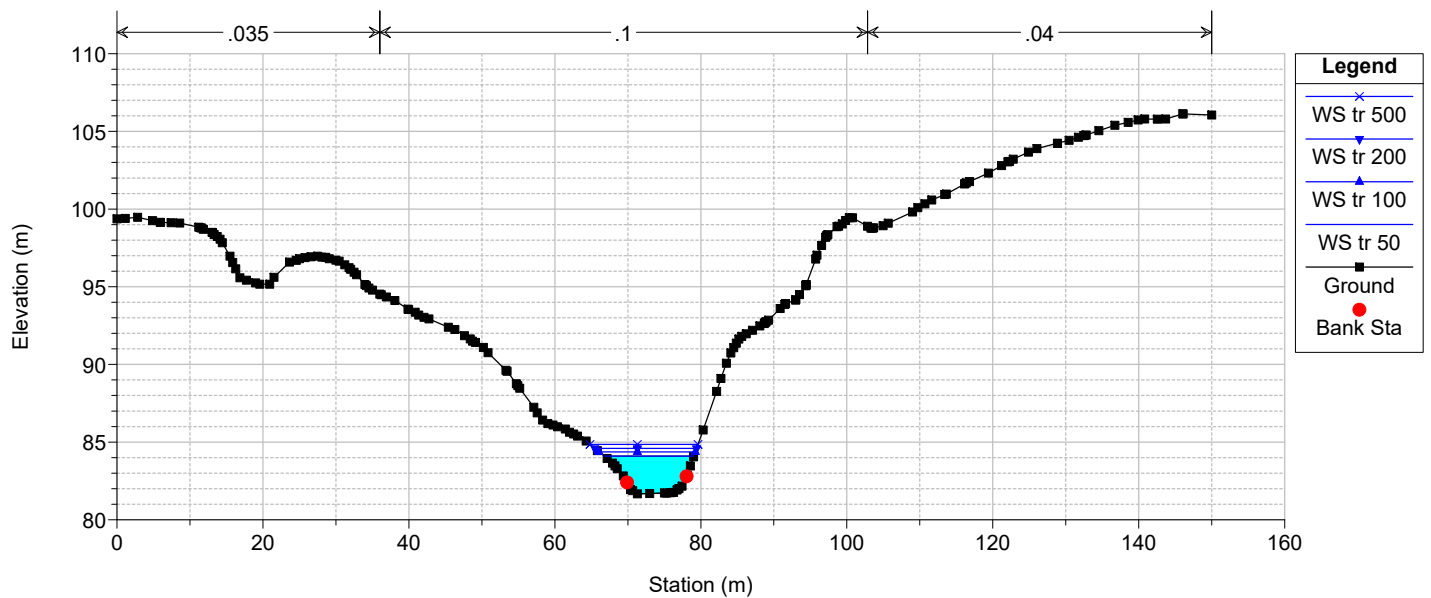
River = Sa Pedraia Reach = Asta RS = 689.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

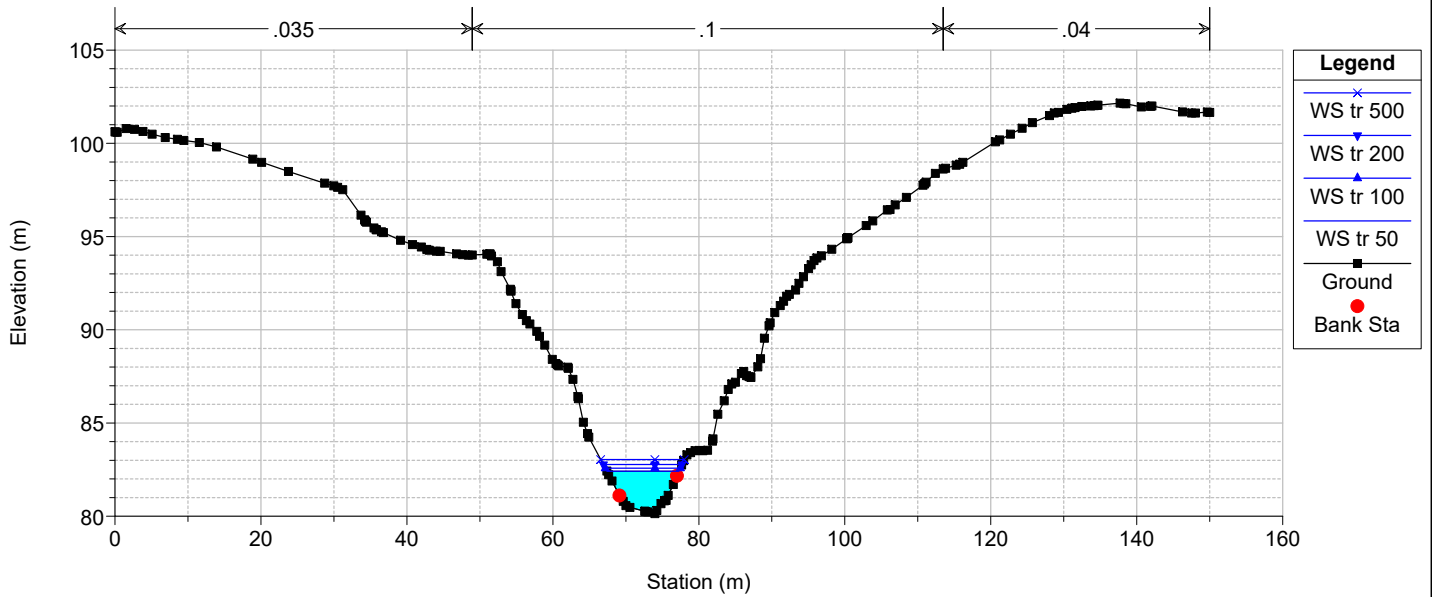
River = Sa Pedraia Reach = Asta RS = 660 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

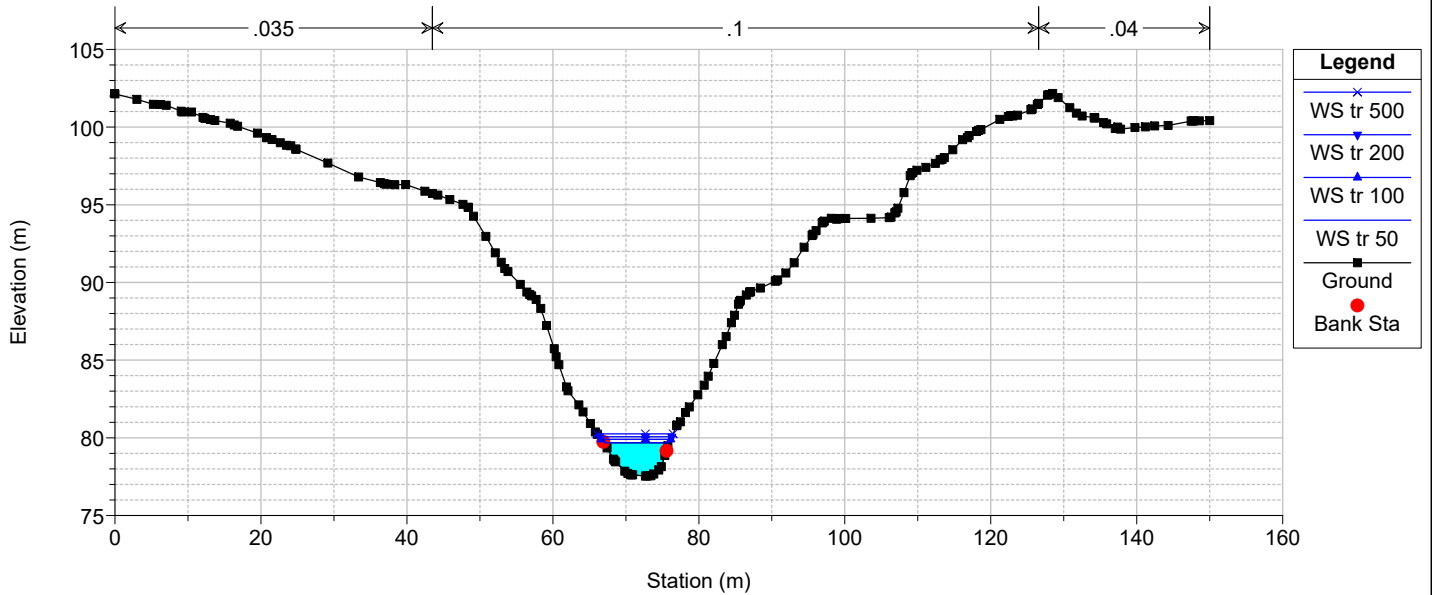
River = Sa Pedraia Reach = Asta RS = 630 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

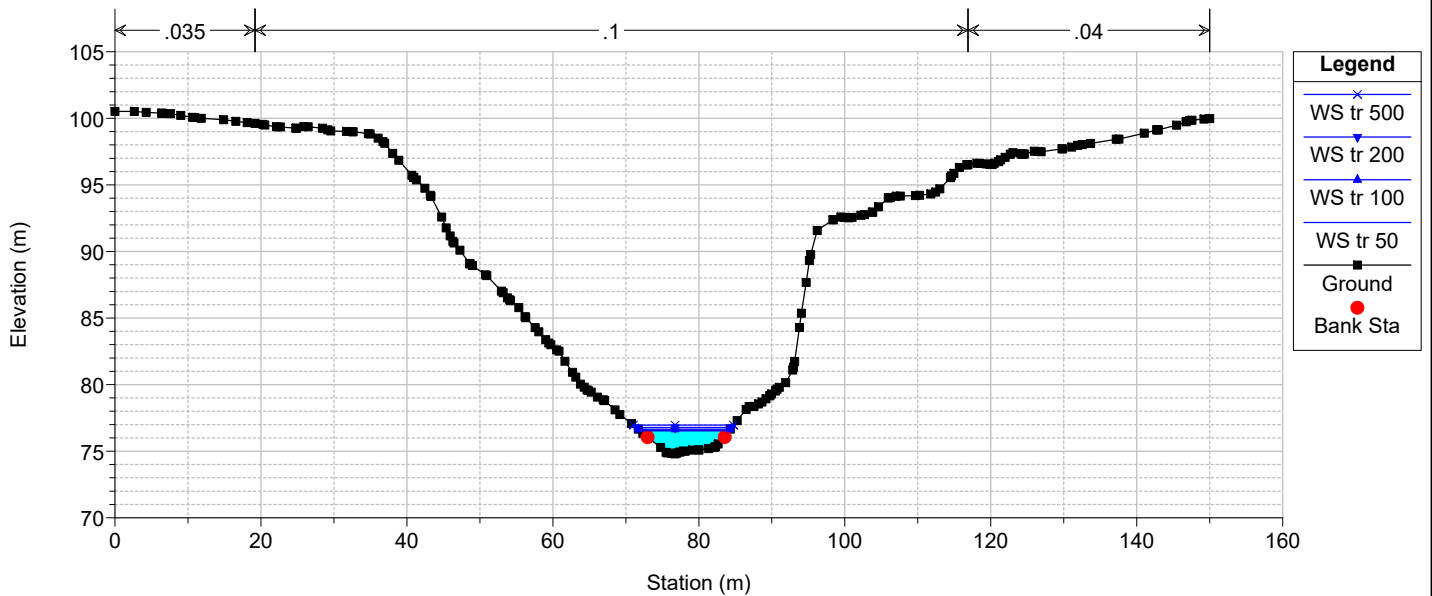
River = Sa Pedraia Reach = Asta RS = 599.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

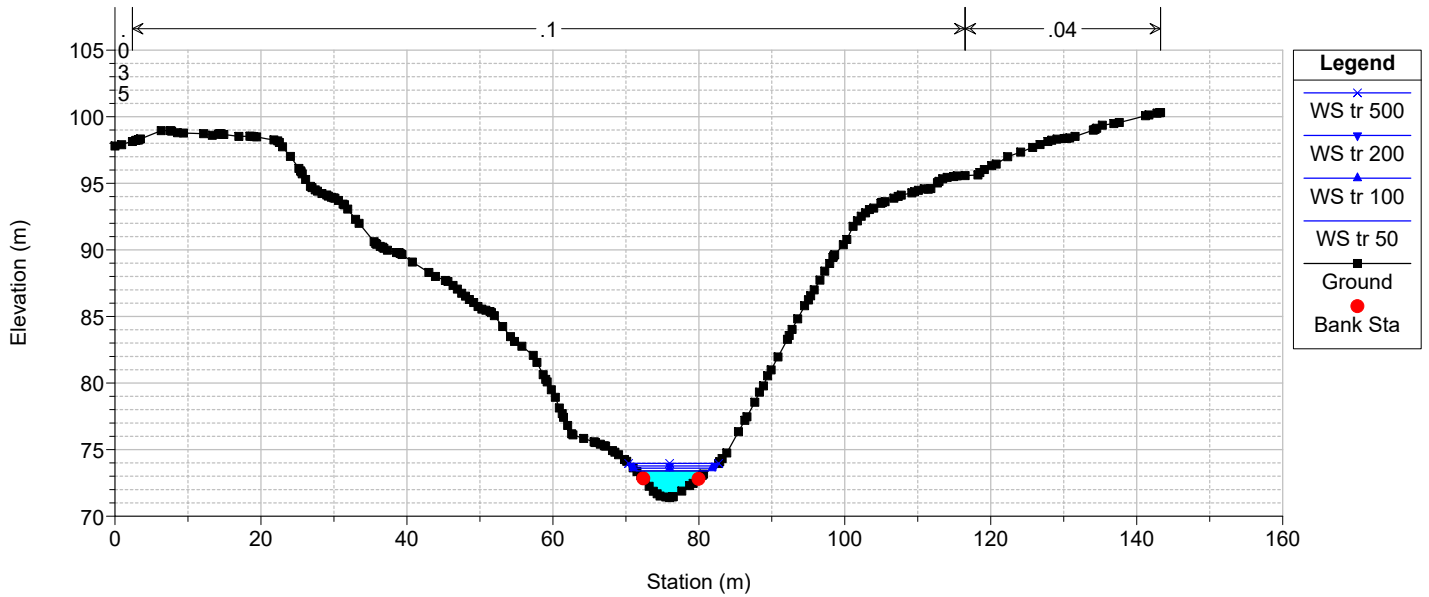
River = Sa Pedraia Reach = Asta RS = 569.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

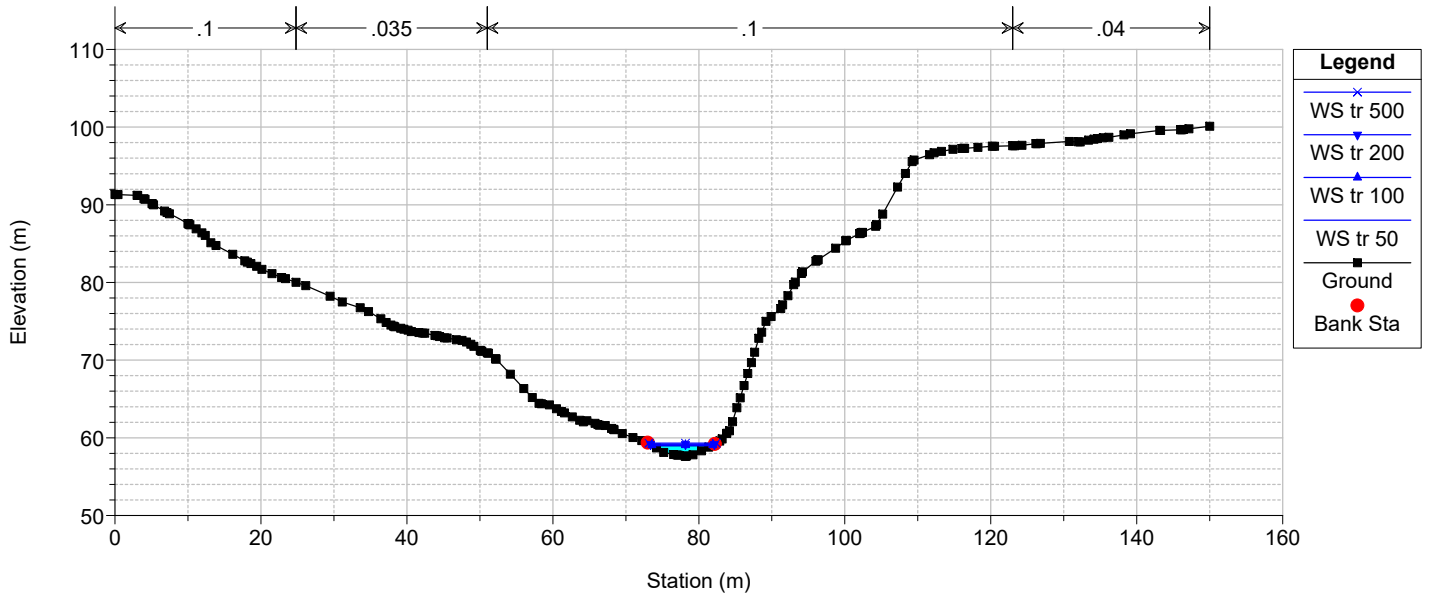
River = Sa Pedraia Reach = Asta RS = 549.4875 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

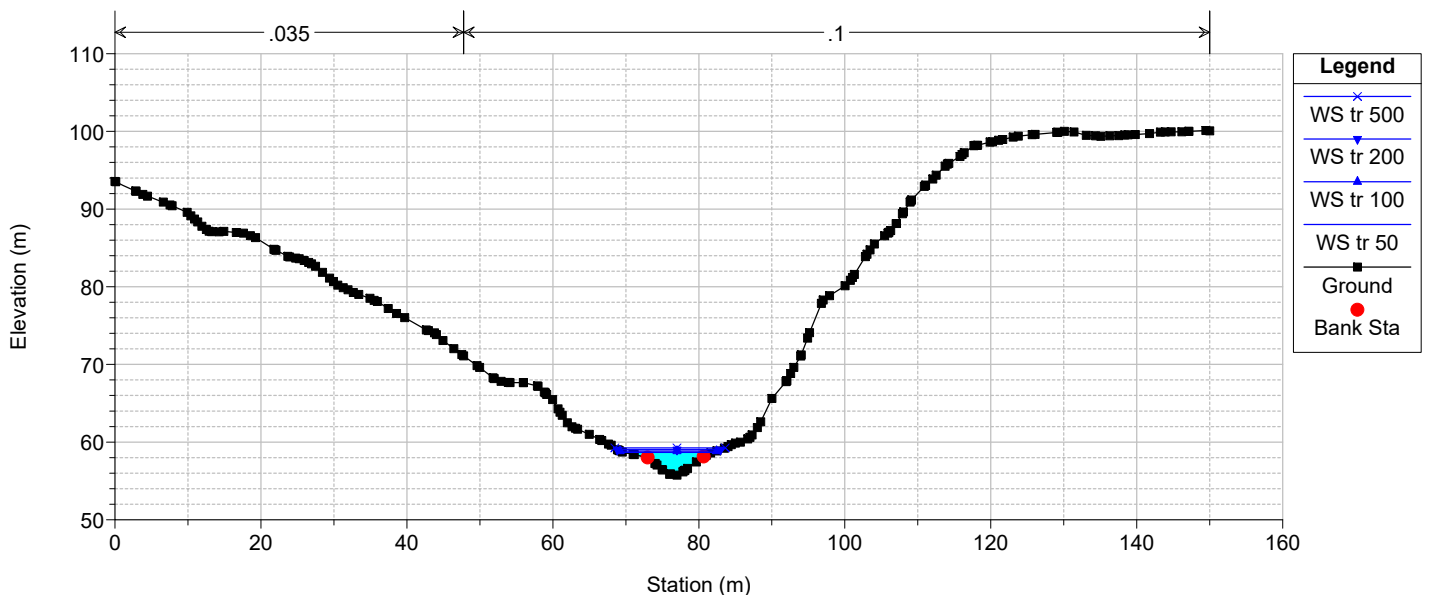
River = Sa Pedraia Reach = Asta RS = 510 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

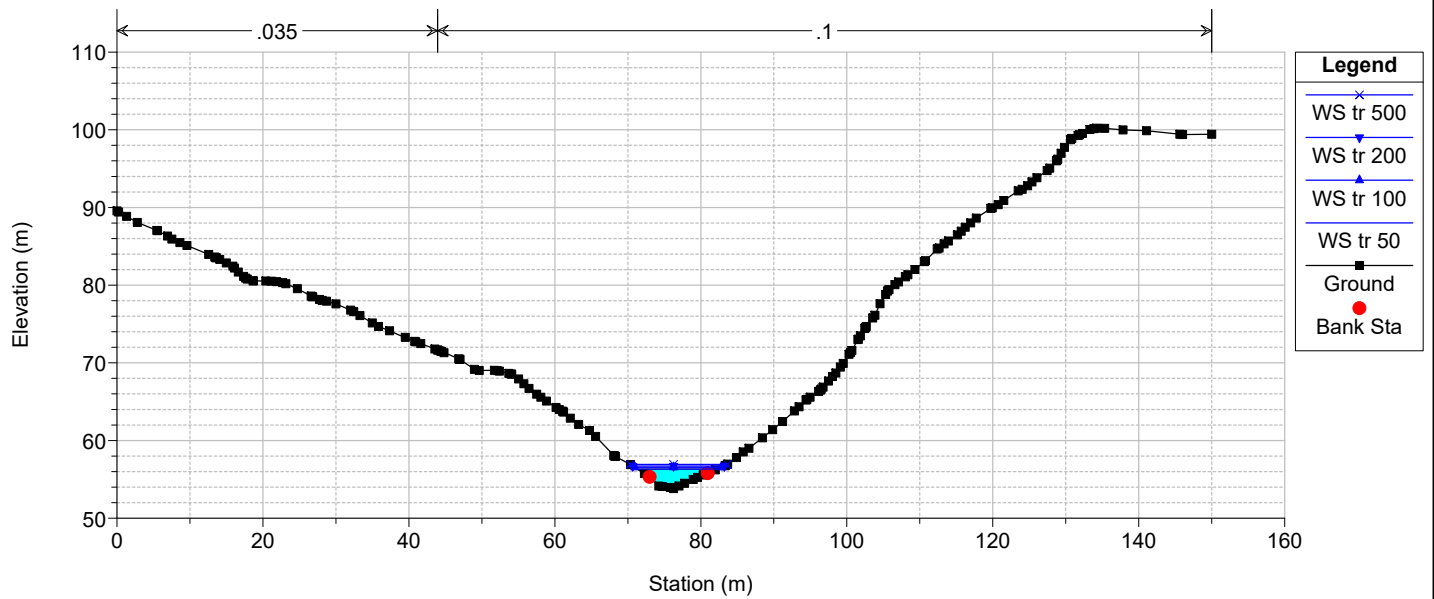
River = Sa Pedraia Reach = Asta RS = 479.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

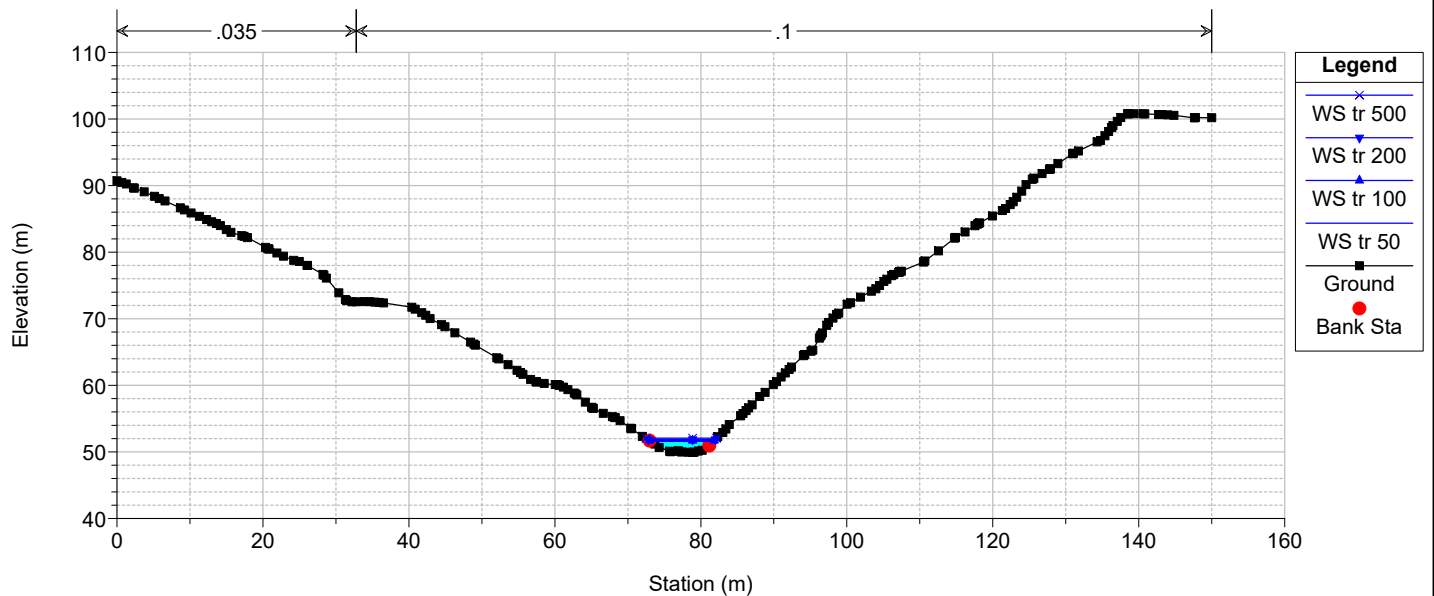
River = Sa Pedraia Reach = Asta RS = 449.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

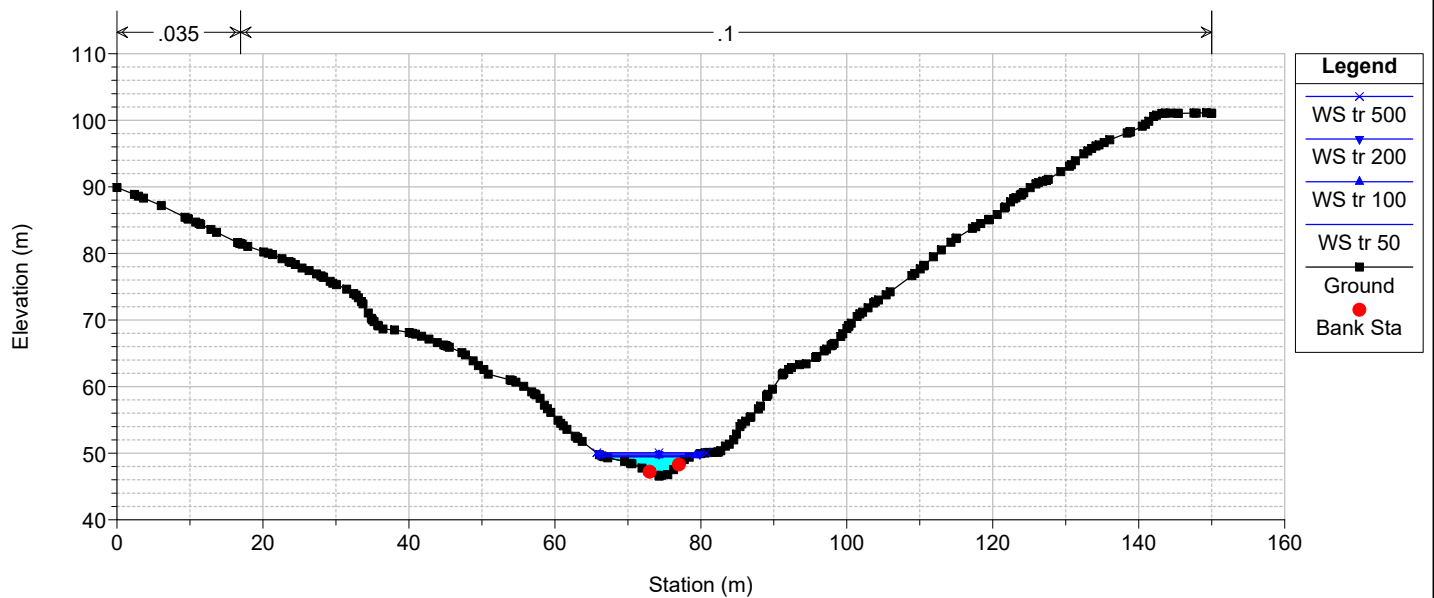
River = Sa Pedraia Reach = Asta RS = 420 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

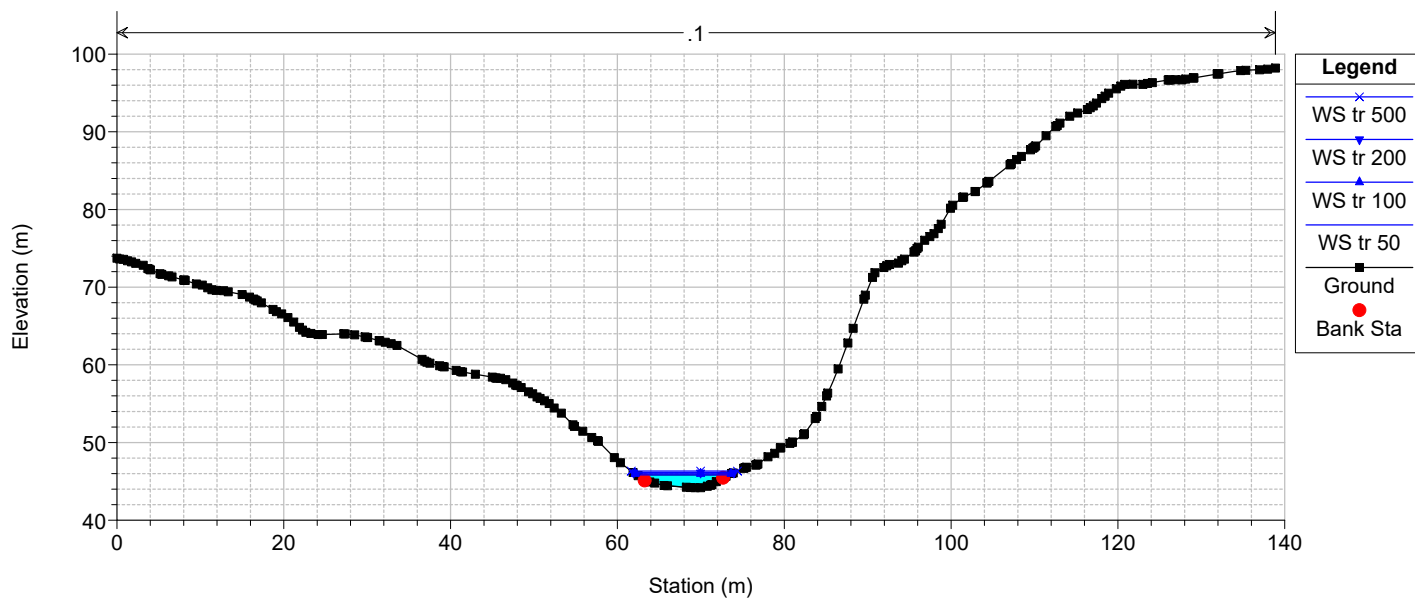
River = Sa Pedraia Reach = Asta RS = 390 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

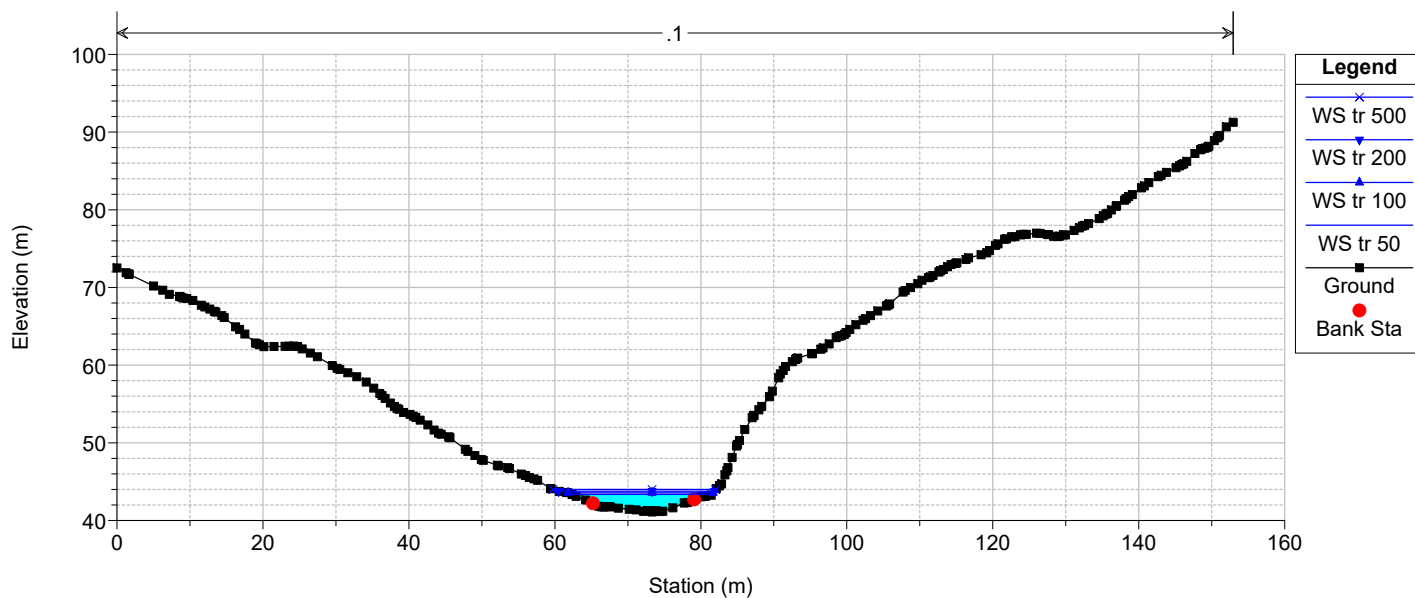
River = Sa Pedraia Reach = Asta RS = 355.1261 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

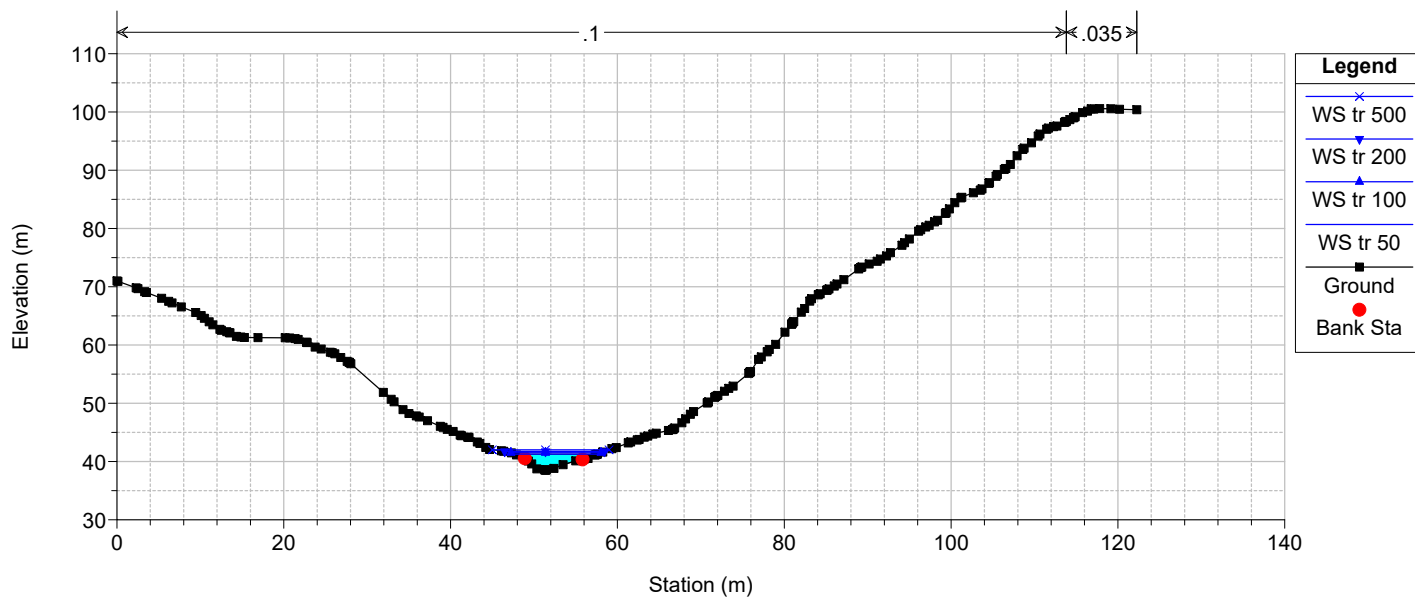
River = Sa Pedraia Reach = Asta RS = 324.1425 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

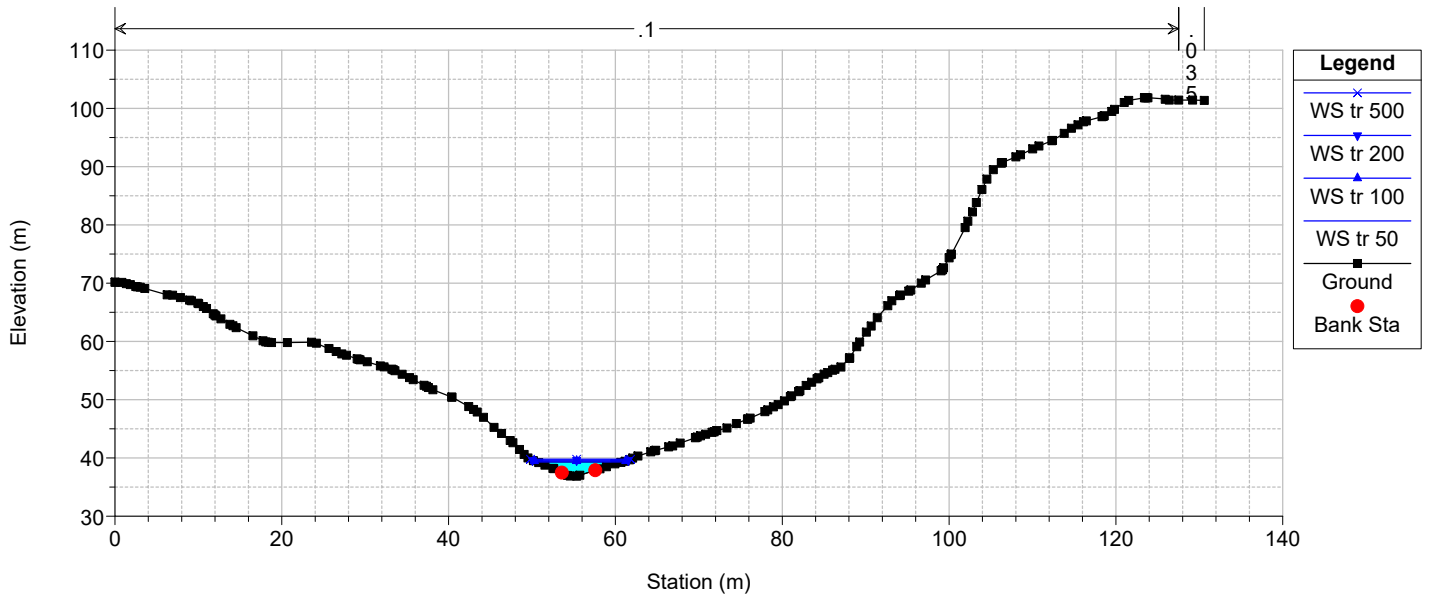
River = Sa Pedraia Reach = Asta RS = 287.1712 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

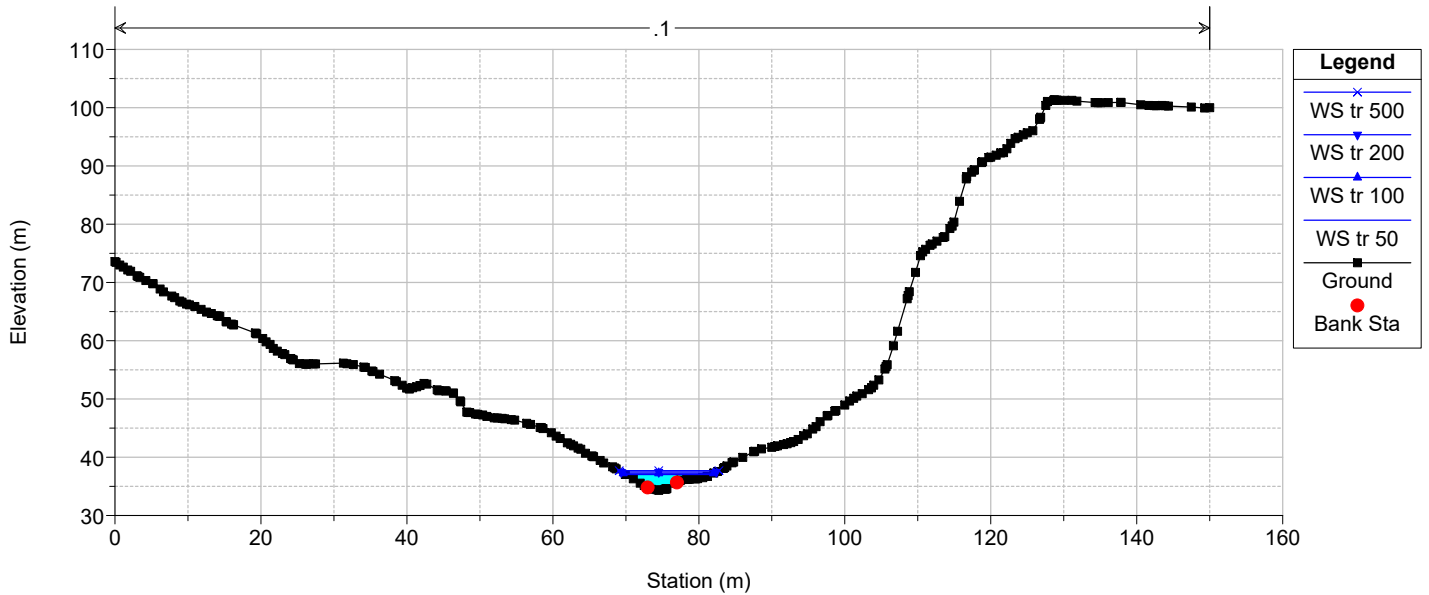
River = Sa Pedraia Reach = Asta RS = 270 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

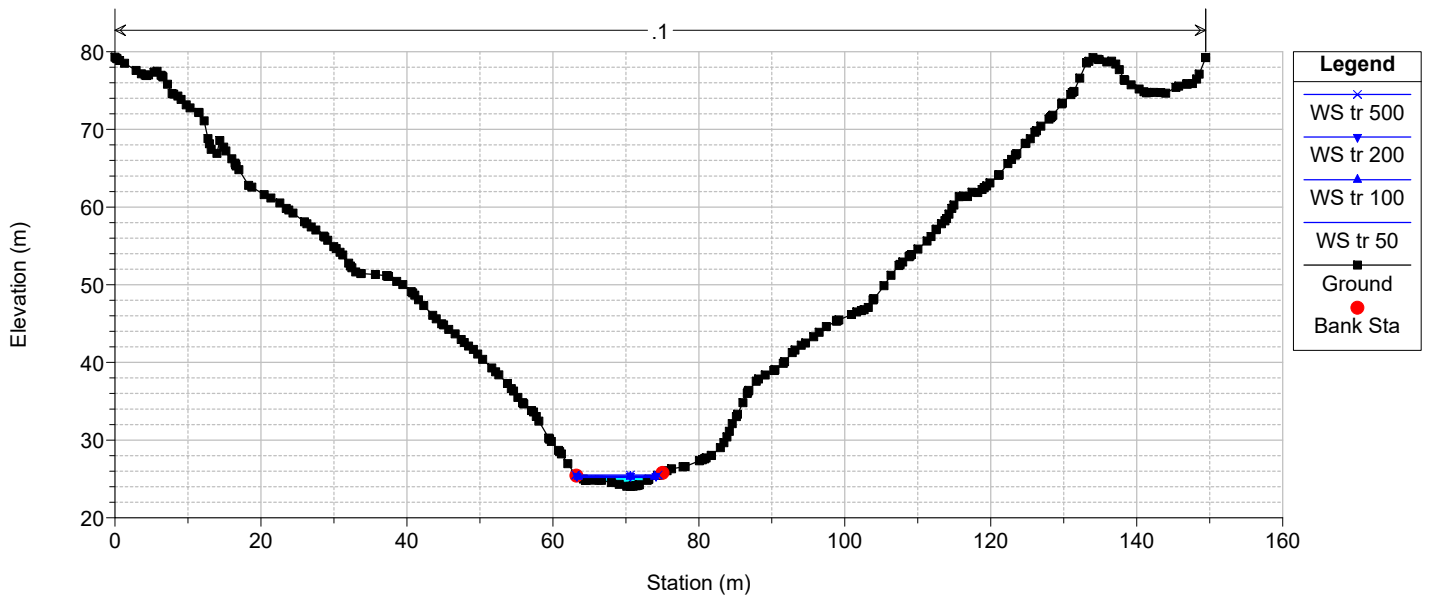
River = Sa Pedraia Reach = Asta RS = 240 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

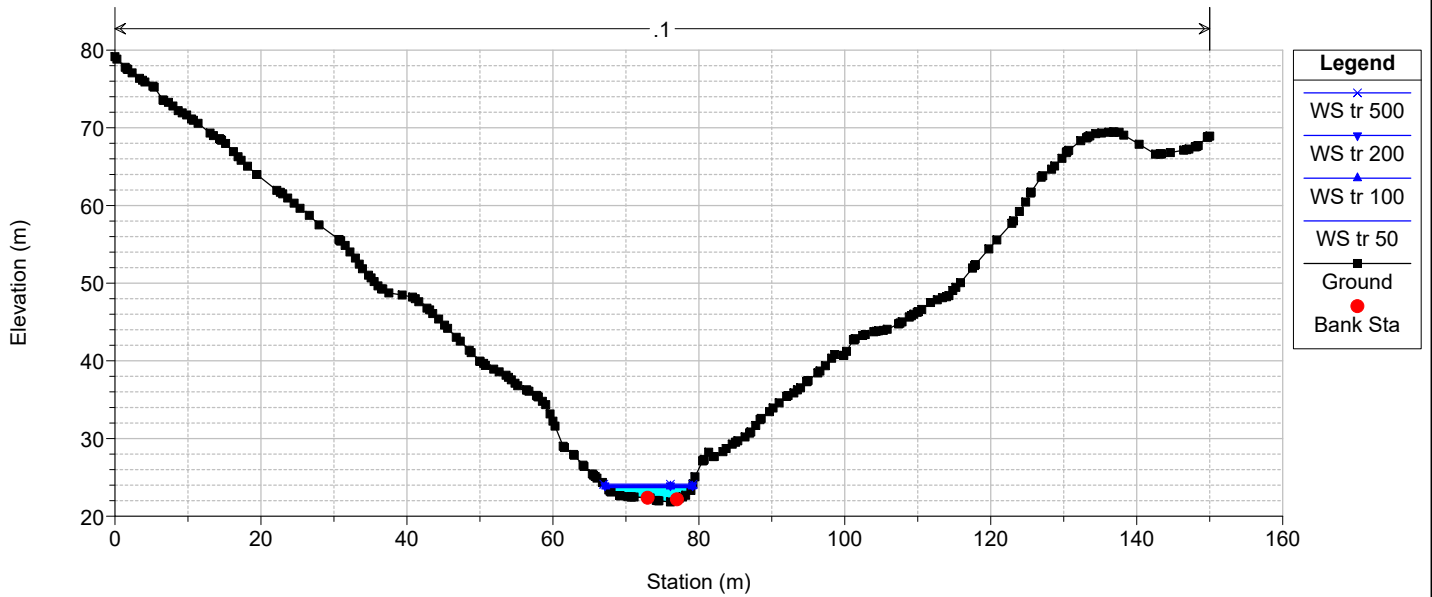
River = Sa Pedraia Reach = Asta RS = 193.583 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

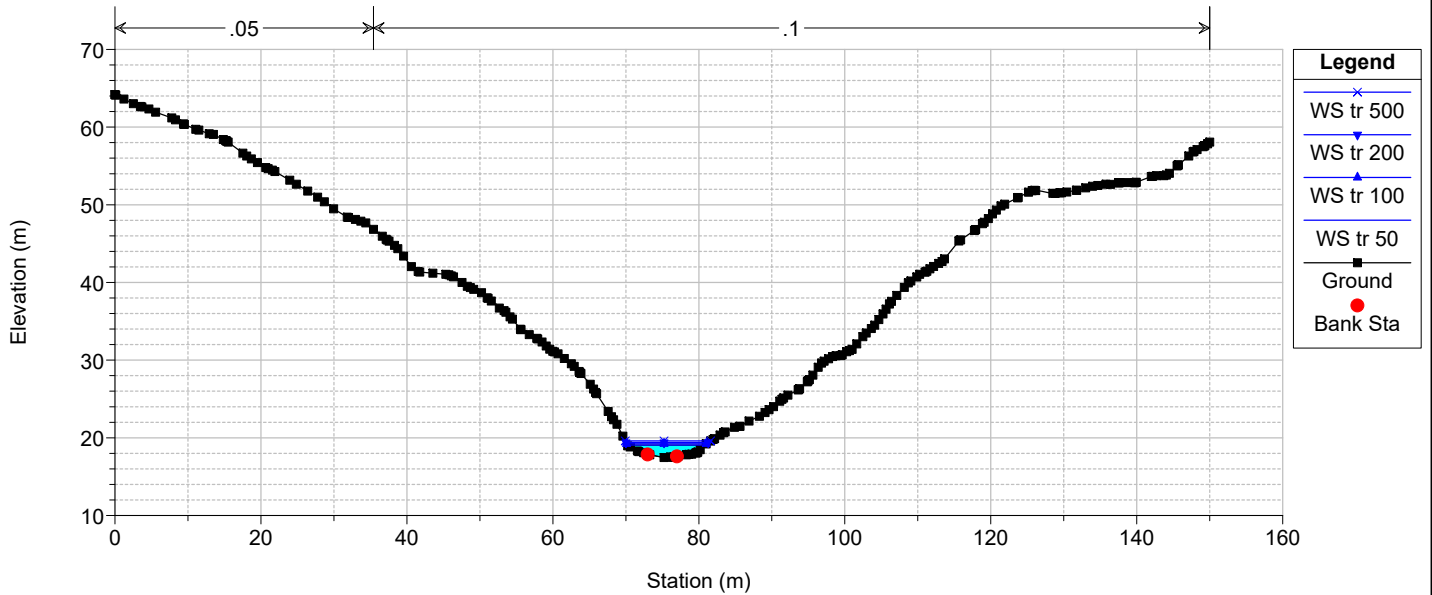
River = Sa Pedraia Reach = Asta RS = 179.9999 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

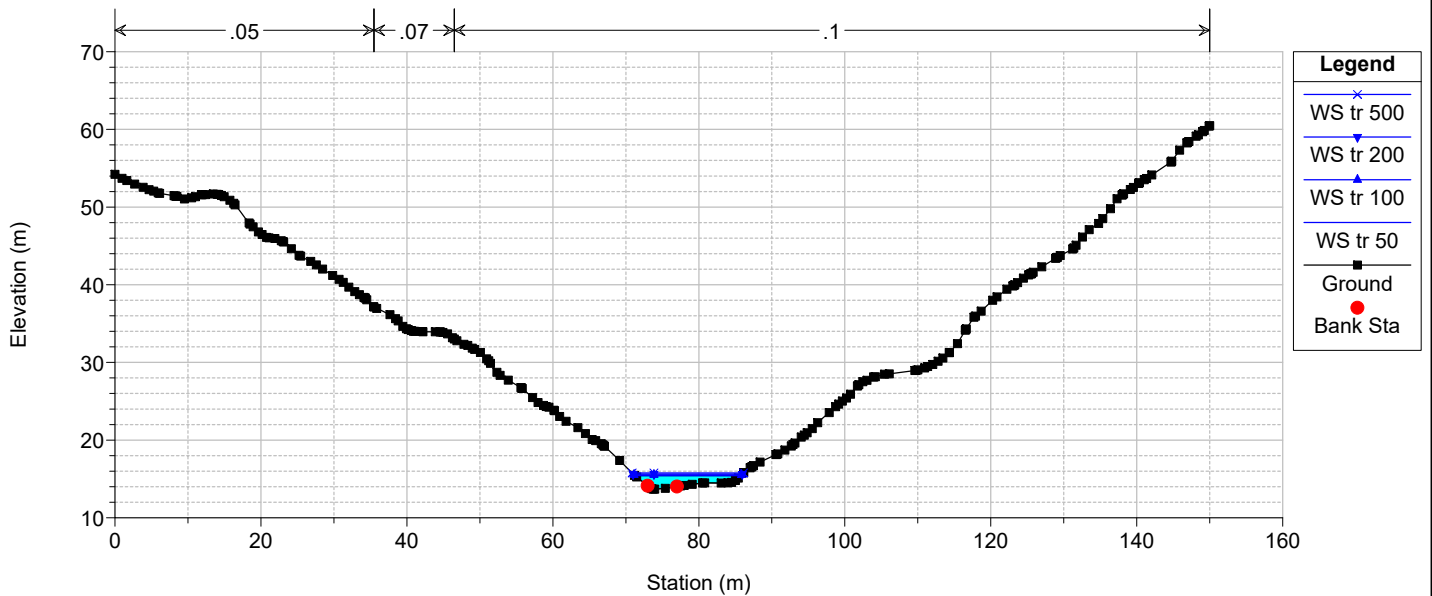
River = Sa Pedraia Reach = Asta RS = 150 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

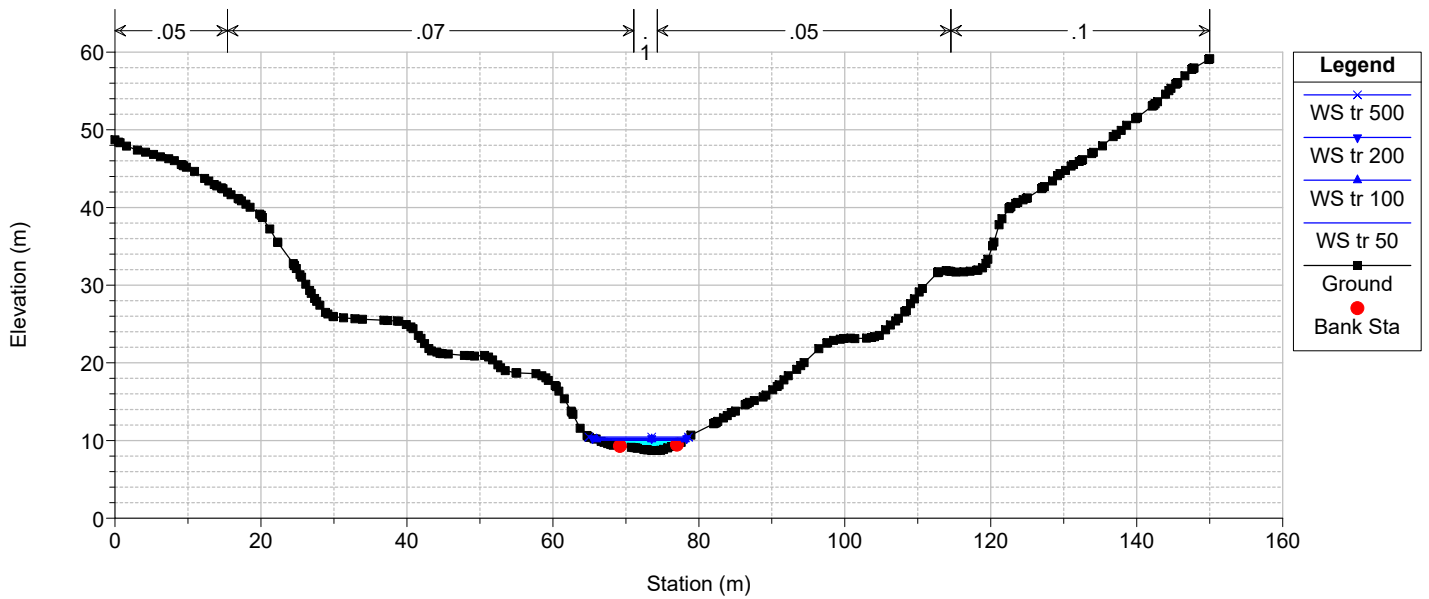
River = Sa Pedraia Reach = Asta RS = 120 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

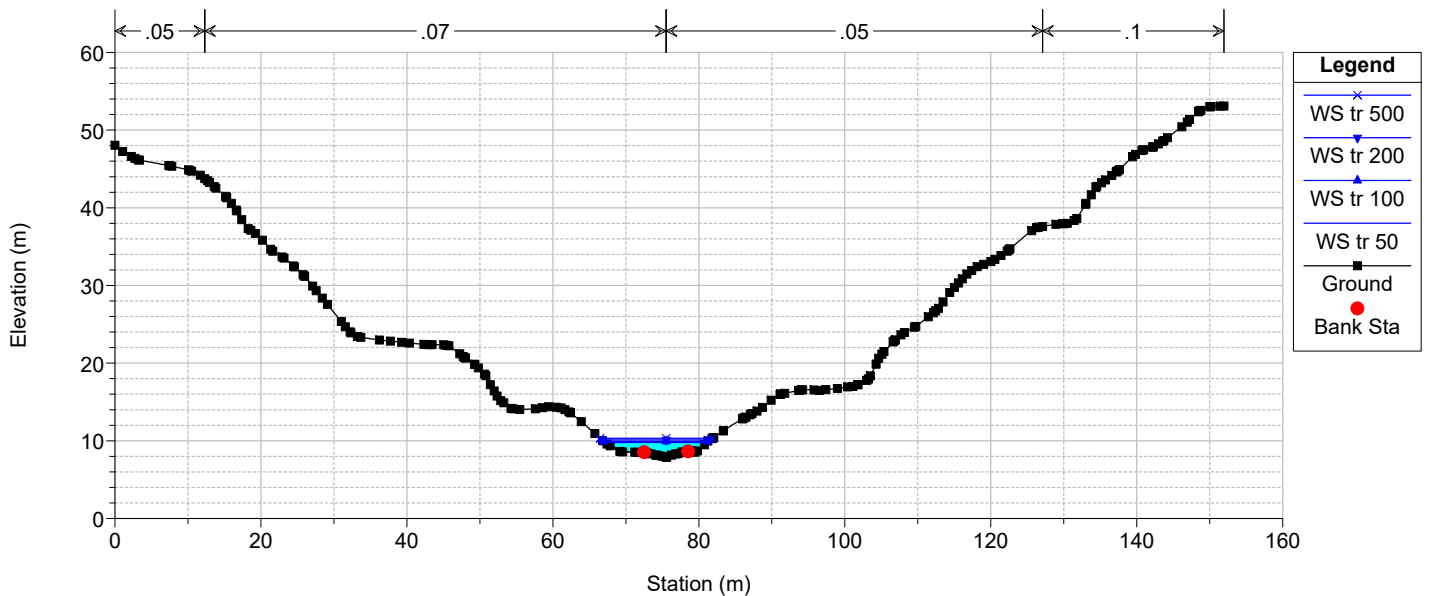
River = Sa Pedraia Reach = Asta RS = 90.00002 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI



sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

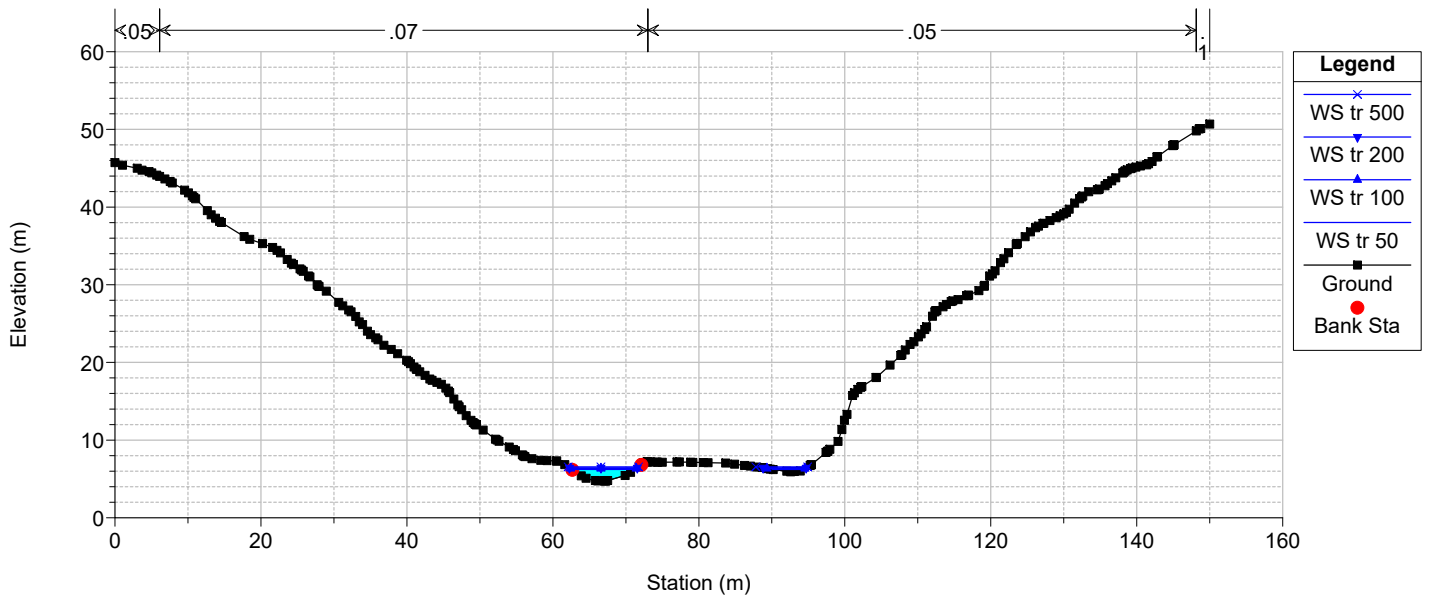
River = Sa Pedraia Reach = Asta RS = 64.10445 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI

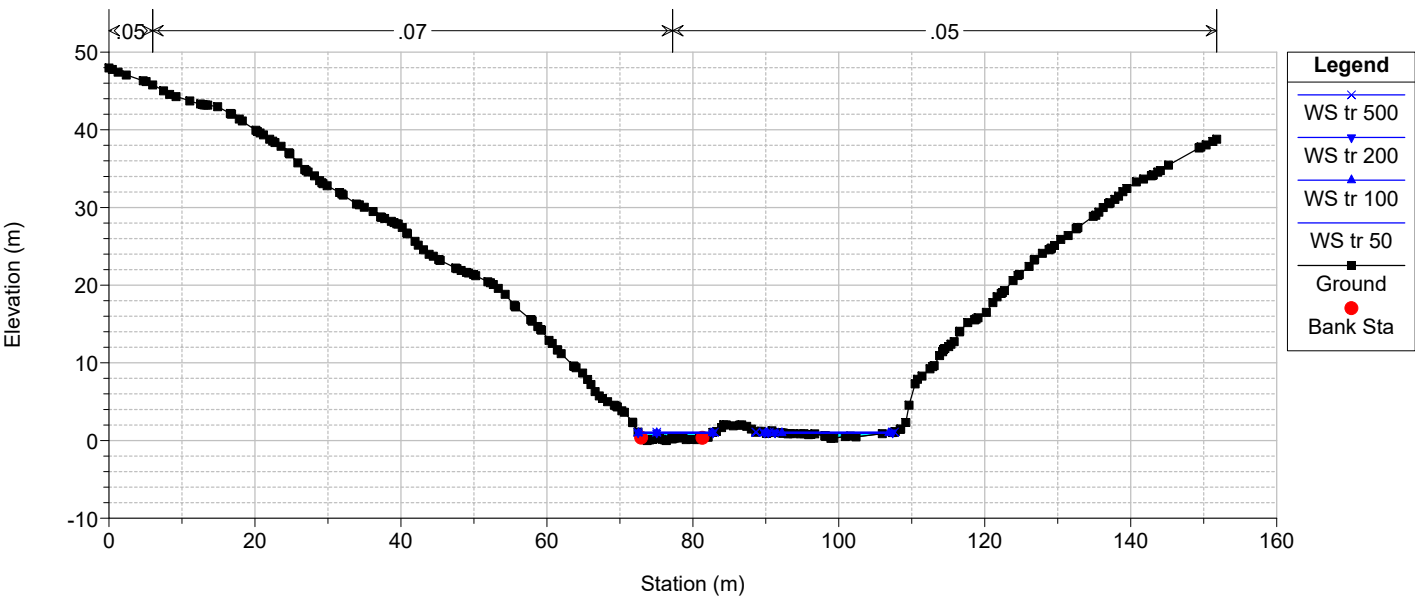


sapedraia25102016 Plan: 08022021 11/02/2021

Geom:apedraia25102016 Flow: 05022021

River = Sa Pedraia Reach = Asta RS = 30.00006 COMUNE DI SASSARI - VARIANTE AL PAI AI SENSI DELL'ART. 37 C.3 DELLE NA DEL PAI





Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Asta	4294.399	tr 50	54.45	153.64	154.89	154.89	155.17	0.014572	3.01	24.31	40.10	0.95
Asta	4294.399	tr 100	65.38	153.64	154.96	154.96	155.28	0.014847	3.18	27.20	40.52	0.97
Asta	4294.399	tr 200	76.51	153.64	155.05	155.05	155.39	0.014062	3.25	30.63	41.03	0.96
Asta	4294.399	tr 500	91.54	153.64	155.06	155.06	155.53	0.019060	3.81	31.17	41.13	1.12
Asta	4273.269	tr 50	54.45	153.26	154.32	154.43	154.77	0.023156	3.72	19.72	34.82	1.21
Asta	4273.269	tr 100	65.38	153.26	154.40	154.52	154.89	0.022362	3.85	22.61	37.13	1.20
Asta	4273.269	tr 200	76.51	153.26	154.46	154.55	155.00	0.022554	4.03	25.19	39.09	1.22
Asta	4273.269	tr 500	91.54	153.26	154.61	154.72	155.13	0.019113	4.02	31.03	42.87	1.14
Asta	4248.936	tr 50	54.45	152.28	153.43	153.64	154.10	0.031780	4.57	18.50	44.62	1.43
Asta	4248.936	tr 100	65.38	152.28	153.48	153.71	154.21	0.033287	4.83	20.88	45.40	1.47
Asta	4248.936	tr 200	76.51	152.28	153.53	153.77	154.31	0.034249	5.05	23.21	46.19	1.51
Asta	4248.936	tr 500	91.54	152.28	153.59	153.86	154.46	0.037007	5.41	25.77	47.47	1.58
Asta	4214.87	tr 50	54.45	152.19	152.67	152.67	152.72	0.010866	1.44	60.16	104.63	0.72
Asta	4214.87	tr 100	65.38	152.19	152.67	152.67	152.74	0.015669	1.73	60.16	104.63	0.86
Asta	4214.87	tr 200	76.51	152.19	152.67	152.67	152.76	0.021457	2.02	60.16	104.63	1.01
Asta	4214.87	tr 500	91.54	152.19	152.67	152.67	152.80	0.030710	2.42	60.16	104.63	1.21
Asta	4182.068	tr 50	54.45	150.25	150.85	151.18	151.82	0.090783	4.80	13.60	40.43	2.15
Asta	4182.068	tr 100	65.38	150.25	151.49	151.22	151.60	0.003992	1.73	49.45	71.07	0.52
Asta	4182.068	tr 200	76.51	150.25	151.60	151.28	151.71	0.003794	1.79	56.96	77.07	0.51
Asta	4182.068	tr 500	91.54	150.25	151.73	151.39	151.84	0.003389	1.80	67.49	81.74	0.49
Asta	4143.35	tr 50	54.45	149.54	151.16	150.93	151.29	0.005554	2.16	40.03	53.32	0.61
Asta	4143.35	tr 100	65.38	149.54	151.27	151.41	151.41	0.005557	2.28	45.73	54.72	0.62
Asta	4143.35	tr 200	76.51	149.54	151.37	151.37	151.52	0.005551	2.39	51.28	56.34	0.62
Asta	4143.35	tr 500	91.54	149.54	151.50	151.50	151.66	0.005457	2.50	58.75	58.28	0.63
Asta	4128.429	tr 50	54.45	149.55	150.82	150.82	151.12	0.030992	2.00	23.20	40.47	0.63
Asta	4128.429	tr 100	65.38	149.55	150.90	150.90	151.24	0.029749	2.06	26.41	40.97	0.63
Asta	4128.429	tr 200	76.51	149.55	150.97	150.97	151.35	0.028216	2.10	29.68	41.47	0.62
Asta	4128.429	tr 500	91.54	149.55	151.06	151.06	151.49	0.027771	2.19	33.42	42.04	0.62
Asta	4114.4	tr 50	54.45	148.76	149.69	150.00	150.56	0.042754	4.69	14.07	23.83	1.61
Asta	4114.4	tr 100	65.38	148.76	149.79	150.10	150.71	0.039562	4.85	16.48	24.90	1.58
Asta	4114.4	tr 200	76.51	148.76	149.89	150.20	150.84	0.037008	5.02	19.22	27.52	1.55
Asta	4114.4	tr 500	91.54	148.76	150.00	150.32	151.01	0.034889	5.20	22.37	30.24	1.53
Asta	4084.4	tr 50	54.45	147.77	148.83	149.00	149.47	0.028304	4.14	16.36	24.05	1.34
Asta	4084.4	tr 100	65.38	147.77	148.91	149.09	149.64	0.029313	4.45	18.45	25.10	1.38
Asta	4084.4	tr 200	76.51	147.77	148.99	149.22	149.81	0.030375	4.74	20.42	26.06	1.42
Asta	4084.4	tr 500	91.54	147.77	149.09	149.40	150.00	0.030770	5.06	23.14	27.19	1.45
Asta	4054.4	tr 50	54.45	147.05	148.18	148.31	148.73	0.020561	3.52	17.45	24.65	1.14
Asta	4054.4	tr 100	65.38	147.05	148.28	148.42	148.88	0.020432	3.74	20.01	28.45	1.15
Asta	4054.4	tr 200	76.51	147.05	148.37	148.52	149.03	0.020333	3.93	22.64	29.90	1.16
Asta	4054.4	tr 500	91.54	147.05	148.47	148.66	149.21	0.020658	4.20	25.82	31.18	1.19
Asta	4024.4	tr 50	54.45	145.96	147.85	147.33	148.01	0.003121	2.00	32.49	26.30	0.48
Asta	4024.4	tr 100	65.38	145.96	148.00	147.45	148.18	0.003226	2.15	36.50	27.18	0.50
Asta	4024.4	tr 200	76.51	145.96	148.13	147.56	148.34	0.003361	2.29	40.18	27.96	0.52
Asta	4024.4	tr 500	91.54	145.96	148.28	147.70	148.53	0.003826	2.57	44.51	30.47	0.56
Asta	3994.4	tr 50	54.45	145.60	147.38	147.38	147.82	0.010537	3.34	20.26	22.75	0.87
Asta	3994.4	tr 100	65.38	145.60	147.51	147.51	147.99	0.010494	3.52	23.33	24.60	0.88
Asta	3994.4	tr 200	76.51	145.60	147.63	147.63	148.14	0.010247	3.66	26.67	27.53	0.88
Asta	3994.4	tr 500	91.54	145.60	147.81	147.81	148.33	0.009618	3.77	31.69	31.46	0.86
Asta	3958.105	tr 50	54.45	144.69	145.64	146.00	146.82	0.115060	5.70	12.39	29.71	1.98
Asta	3958.105	tr 100	65.38	144.69	145.70	146.08	146.99	0.114389	5.95	14.19	31.20	1.99
Asta	3958.105	tr 200	76.51	144.69	145.76	146.17	147.15	0.114437	6.19	15.92	34.72	2.02
Asta	3958.105	tr 500	91.54	144.69	145.82	146.25	147.36	0.116054	6.51	18.27	39.29	2.05
Asta	3934.4	tr 50	54.45	143.93	146.23	145.14	146.27	0.000813	0.76	72.42	50.65	0.17
Asta	3934.4	tr 100	65.38	143.93	146.26	145.25	146.31	0.001112	0.90	73.80	50.87	0.20
Asta	3934.4	tr 200	76.51	143.93	146.29	145.34	146.36	0.001427	1.03	75.44	51.02	0.22
Asta	3934.4	tr 500	91.54	143.93	146.34	145.46	146.44	0.001848	1.19	78.03	51.28	0.26
Asta	3904.4	tr 50	54.45	144.54	146.17	146.17	146.22	0.006043	0.97	55.03	79.90	0.26
Asta	3904.4	tr 100	65.38	144.54	146.17	146.17	146.24	0.008715	1.16	55.03	79.90	0.31
Asta	3904.4	tr 200	76.51	144.54	146.17	146.17	146.27	0.011934	1.36	55.03	79.90	0.36
Asta	3904.4	tr 500	91.54	144.54	146.17	146.17	146.31	0.017082	1.62	55.03	79.90	0.43
Asta	3886.149	tr 50	54.45	142.84	143.58	144.13	145.71	0.130865	6.69	8.76	16.79	2.67
Asta	3886.149	tr 100	65.38	142.84	143.71	144.30	145.67	0.095840	6.47	11.01	17.85	2.36
Asta	3886.149	tr 200	76.51	142.84	143.84	144.44	145.65	0.072372	6.26	13.47	18.92	2.10
Asta	3886.149	tr 500	91.54	142.84	144.03	144.58	145.65	0.051641	6.00	17.21	21.24	1.83
Asta	3844.4	tr 50	54.45	142.51	143.39	143.39	143.69	0.016645	2.71	23.12	38.66	0.99
Asta	3844.4	tr 100	65.38	142.51	143.47	143.47	143.81	0.016629	2.89	26.09	39.65	1.00
Asta	3844.4	tr 200	76.51	142.51	143.52	143.55	143.92	0.017517	3.10	28.46	40.42	1.04

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	3844.4	tr 500	91.54	142.51	143.58	143.65	144.06	0.019630	3.42	30.87	41.20	1.11
Asta	3814.4	tr 50	54.45	141.22	142.42	142.59	142.98	0.033690	4.10	18.41	40.54	1.41
Asta	3814.4	tr 100	65.38	141.22	142.48	142.66	143.09	0.033853	4.30	20.88	41.33	1.43
Asta	3814.4	tr 200	76.51	141.22	142.54	142.72	143.18	0.032939	4.43	23.41	41.84	1.42
Asta	3814.4	tr 500	91.54	141.22	142.62	142.82	143.30	0.031257	4.54	26.83	42.50	1.40
Asta	3783.593	tr 50	54.45	140.82	142.01	142.01	142.40	0.012687	2.83	20.89	30.77	0.90
Asta	3783.593	tr 100	65.38	140.82	142.17	142.17	142.55	0.010626	2.85	26.26	36.17	0.84
Asta	3783.593	tr 200	76.51	140.82	142.25	142.25	142.67	0.011014	3.03	29.24	37.36	0.86
Asta	3783.593	tr 500	91.54	140.82	142.36	142.36	142.52	0.004487	2.05	54.57	57.35	0.56
Asta	3747.326	tr 50	54.45	140.16	140.78	141.02	141.51	0.058884	3.86	14.87	34.19	1.73
Asta	3747.326	tr 100	65.38	140.16	140.82	141.10	141.71	0.066399	4.29	16.11	34.63	1.86
Asta	3747.326	tr 200	76.51	140.16	140.88	141.18	141.83	0.061747	4.44	18.27	35.39	1.82
Asta	3747.326	tr 500	91.54	140.16	140.94	141.28	142.03	0.062931	4.77	20.45	37.85	1.87
Asta	3690.191	tr 50	54.45	138.08	139.19	138.97	139.34	0.007574	2.09	31.97	47.58	0.69
Asta	3690.191	tr 100	65.38	138.08	139.29	139.09	139.46	0.007141	2.18	37.06	51.18	0.68
Asta	3690.191	tr 200	76.51	138.08	139.39	139.17	139.56	0.007188	2.32	42.24	54.77	0.69
Asta	3690.191	tr 500	91.54	138.08	139.51	139.27	139.70	0.006625	2.39	49.21	57.65	0.67
Asta	3681.583	tr 50	54.45	137.98	139.18	138.83	139.28	0.003719	1.57	38.30	43.82	0.49
Asta	3681.583	tr 100	65.38	137.98	139.28	138.91	139.40	0.003793	1.69	42.73	44.30	0.50
Asta	3681.583	tr 200	76.51	137.98	139.37	138.97	139.51	0.003896	1.80	46.80	44.73	0.52
Asta	3681.583	tr 500	91.54	137.98	139.49	139.08	139.65	0.003975	1.93	52.09	45.29	0.53
Asta	3664.479	tr 50	54.45	137.87	138.86	138.86	139.15	0.014494	2.59	23.92	39.41	0.92
Asta	3664.479	tr 100	65.38	137.87	138.94	138.94	139.27	0.014479	2.75	27.02	40.23	0.94
Asta	3664.479	tr 200	76.51	137.87	139.02	139.02	139.37	0.014009	2.87	30.27	40.75	0.94
Asta	3664.479	tr 500	91.54	137.87	139.11	139.11	139.51	0.014060	3.05	33.94	41.21	0.95
Asta	3634.866	tr 50	54.45	137.39	138.42	138.42	138.49	0.003014	1.31	48.21	67.04	0.43
Asta	3634.866	tr 100	65.38	137.39	138.42	138.42	138.52	0.004345	1.58	48.21	67.04	0.52
Asta	3634.866	tr 200	76.51	137.39	138.42	138.42	138.55	0.005950	1.84	48.21	67.04	0.61
Asta	3634.866	tr 500	91.54	137.39	138.42	138.42	138.61	0.008517	2.21	48.21	67.04	0.73
Asta	3604.913	tr 50	54.45	135.90	136.39	136.77	138.03	0.290557	5.71	9.75	30.52	3.12
Asta	3604.913	tr 100	65.38	135.90	136.47	136.86	137.98	0.202292	5.48	12.26	31.11	2.69
Asta	3604.913	tr 200	76.51	135.90	136.56	136.95	137.94	0.143614	5.24	15.08	31.76	2.34
Asta	3604.913	tr 500	91.54	135.90	136.69	137.10	137.90	0.093760	4.93	19.34	32.74	1.96
Asta	3574.834	tr 50	54.45	135.22	137.09	136.32	137.14	0.001848	1.05	55.44	50.75	0.28
Asta	3574.834	tr 100	65.38	135.22	137.19	136.41	137.25	0.001994	1.14	60.78	51.26	0.30
Asta	3574.834	tr 200	76.51	135.22	137.27	136.48	137.34	0.002233	1.25	64.76	51.60	0.32
Asta	3574.834	tr 500	91.54	135.22	137.38	136.58	137.47	0.002446	1.37	70.48	52.35	0.33
Asta	3534.099	tr 50	54.45	135.23	137.04	136.21	137.08	0.001458	0.54	69.10	61.34	0.13
Asta	3534.099	tr 100	65.38	135.23	137.14	136.29	137.18	0.001570	0.58	75.37	61.84	0.14
Asta	3534.099	tr 200	76.51	135.23	137.21	136.36	137.27	0.001777	0.63	79.79	62.18	0.15
Asta	3534.099	tr 500	91.54	135.23	137.32	136.45	137.38	0.001951	0.69	86.38	62.70	0.16
Asta	3511.08		Culvert									
Asta	3498.834	tr 50	54.45	134.14	135.47	135.47	135.69	0.009831	2.50	31.64	63.70	0.79
Asta	3498.834	tr 100	65.38	134.14	135.53	135.53	135.78	0.010633	2.69	35.14	64.47	0.83
Asta	3498.834	tr 200	76.51	134.14	135.60	135.60	135.86	0.010472	2.78	39.55	65.72	0.83
Asta	3498.834	tr 500	91.54	134.14	135.67	135.67	135.96	0.010880	2.95	44.32	67.20	0.86
Asta	3478.686	tr 50	54.45	134.01	134.98	135.08	135.37	0.023680	3.26	22.12	45.73	1.17
Asta	3478.686	tr 100	65.38	134.01	135.07	135.14	135.46	0.020664	3.28	26.34	46.55	1.12
Asta	3478.686	tr 200	76.51	134.01	135.15	135.21	135.55	0.019219	3.35	30.04	47.25	1.09
Asta	3478.686	tr 500	91.54	134.01	135.26	135.30	135.66	0.016830	3.37	35.43	48.25	1.04
Asta	3450	tr 50	54.45	133.29	134.51	134.51	134.87	0.014127	2.71	22.04	34.47	0.92
Asta	3450	tr 100	65.38	133.29	134.62	134.62	135.01	0.013315	2.84	25.98	38.64	0.91
Asta	3450	tr 200	76.51	133.29	134.73	134.74	135.13	0.011965	2.90	30.70	42.19	0.88
Asta	3450	tr 500	91.54	133.29	134.85	134.85	135.27	0.011359	3.02	35.74	42.62	0.87
Asta	3420	tr 50	54.45	133.11	134.15	134.15	134.37	0.016542	3.03	29.15	65.52	1.01
Asta	3420	tr 100	65.38	133.11	134.15	134.22	134.47	0.023401	3.62	29.36	65.75	1.20
Asta	3420	tr 200	76.51	133.11	134.16	134.28	134.58	0.031213	4.19	29.63	66.07	1.39
Asta	3420	tr 500	91.54	133.11	134.19	134.34	134.70	0.035641	4.59	32.07	66.85	1.49
Asta	3390	tr 50	54.45	132.16	133.04	133.21	133.60	0.040137	3.43	16.78	35.54	1.45
Asta	3390	tr 100	65.38	132.16	133.17	133.31	133.67	0.028469	3.31	21.73	42.14	1.27
Asta	3390	tr 200	76.51	132.16	133.51	133.39	133.74	0.008301	2.34	38.94	55.07	0.73
Asta	3390	tr 500	91.54	132.16	133.36	133.49	133.88	0.021856	3.43	31.11	51.18	1.16
Asta	3360	tr 50	54.45	131.76	132.87	132.87	133.16	0.012377	2.84	24.78	41.96	0.89
Asta	3360	tr 100	65.38	131.76	132.96	132.96	133.27	0.011975	2.96	28.95	48.07	0.89
Asta	3360	tr 200	76.51	131.76	132.97	132.97	133.39	0.016037	3.44	29.21	48.43	1.03
Asta	3360	tr 500	91.54	131.76	133.16	133.16	133.50	0.011225	3.20	39.33	53.48	0.89

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	3334.736	tr 50	54.45	131.44	132.28	132.36	132.69	0.029639	2.95	19.22	35.99	1.25
Asta	3334.736	tr 100	65.38	131.44	132.35	132.45	132.81	0.028642	3.12	21.80	36.80	1.25
Asta	3334.736	tr 200	76.51	131.44	132.46	132.52	132.91	0.022387	3.07	25.97	37.97	1.13
Asta	3334.736	tr 500	91.54	131.44	132.51	132.63	133.07	0.025661	3.43	27.85	38.49	1.23
Asta	3300	tr 50	54.45	130.81	132.04	131.87	132.24	0.008412	2.27	28.82	42.01	0.73
Asta	3300	tr 100	65.38	130.81	132.12	131.92	132.35	0.008470	2.41	32.52	43.21	0.74
Asta	3300	tr 200	76.51	130.81	132.20	132.08	132.46	0.008519	2.53	36.01	44.24	0.75
Asta	3300	tr 500	91.54	130.81	132.30	132.18	132.59	0.008647	2.69	40.34	45.47	0.77
Asta	3284.01	tr 50	54.45	130.64	131.97		132.12	0.005506	1.77	33.65	45.38	0.58
Asta	3284.01	tr 100	65.38	130.64	132.05		132.22	0.005721	1.92	37.65	47.85	0.60
Asta	3284.01	tr 200	76.51	130.64	132.13		132.33	0.005922	2.05	41.51	50.12	0.62
Asta	3284.01	tr 500	91.54	130.64	132.23		132.45	0.006114	2.20	46.52	52.16	0.64
Asta	3264.604	tr 50	54.45	130.62	131.94		132.02	0.002831	1.29	44.91	57.49	0.42
Asta	3264.604	tr 100	65.38	130.62	132.03		132.12	0.002932	1.39	50.21	60.27	0.43
Asta	3264.604	tr 200	76.51	130.62	132.11		132.22	0.003034	1.49	55.23	60.91	0.45
Asta	3264.604	tr 500	91.54	130.62	132.22		132.34	0.003162	1.61	61.46	61.64	0.46
Asta	3248.033	tr 50	54.45	130.83	131.63	131.63	131.90	0.018366	2.35	23.87	46.68	0.98
Asta	3248.033	tr 100	65.38	130.83	131.72	131.72	132.01	0.016106	2.42	28.21	50.47	0.94
Asta	3248.033	tr 200	76.51	130.83	131.79	131.79	132.10	0.015364	2.53	31.86	53.07	0.94
Asta	3248.033	tr 500	91.54	130.83	131.88	131.88	132.22	0.014601	2.65	36.66	56.45	0.93
Asta	3244.878	tr 50	54.45	130.64	131.52	131.57	131.83	0.022706	2.51	22.40	45.28	1.08
Asta	3244.878	tr 100	65.38	130.64	131.58	131.63	131.94	0.022931	2.70	25.12	47.19	1.11
Asta	3244.878	tr 200	76.51	130.64	131.65	131.73	132.04	0.021738	2.83	28.49	52.17	1.10
Asta	3244.878	tr 500	91.54	130.64	131.73	131.81	132.16	0.020430	2.96	33.02	55.04	1.09
Asta	3217.135	tr 50	54.45	130.25	130.14	128.94	130.29	0.002593		31.87	19.01	0.00
Asta	3217.135	tr 100	65.38	130.25	130.21	129.14	130.41	0.003326		33.28	19.39	0.00
Asta	3217.135	tr 200	76.51	130.25	130.28	129.32	130.53	0.004117	0.09	34.55	20.06	0.24
Asta	3217.135	tr 500	91.54	130.25	128.82	129.56	131.12	0.059189		13.62	10.84	0.00
Asta	3175.295	tr 50	54.45	129.11	129.83	129.83	130.04	0.019404	2.32	27.64	66.33	1.00
Asta	3175.295	tr 100	65.38	129.11	129.89	129.89	130.12	0.018729	2.44	31.42	67.44	1.00
Asta	3175.295	tr 200	76.51	129.11	129.94	129.94	130.19	0.018626	2.56	34.81	68.48	1.01
Asta	3175.295	tr 500	91.54	129.11	130.01	130.01	130.29	0.018049	2.70	39.55	70.27	1.01
Asta	3150	tr 50	54.45	128.19	129.04	129.13	129.40	0.034213	2.91	20.94	51.70	1.31
Asta	3150	tr 100	65.38	128.19	129.09	129.20	129.50	0.034360	3.12	23.80	54.40	1.34
Asta	3150	tr 200	76.51	128.19	129.15	129.26	129.58	0.033115	3.27	26.99	57.39	1.33
Asta	3150	tr 500	91.54	128.19	129.21	129.33	129.69	0.032283	3.46	30.87	60.09	1.34
Asta	3120	tr 50	54.45	127.77	128.61	128.59	128.79	0.015440	2.23	29.21	67.53	0.91
Asta	3120	tr 100	65.38	127.77	128.66	128.64	128.87	0.015748	2.38	32.82	68.72	0.93
Asta	3120	tr 200	76.51	127.77	128.71	128.69	128.95	0.015962	2.52	36.36	70.11	0.95
Asta	3120	tr 500	91.54	127.77	128.77	128.76	129.04	0.016032	2.67	40.95	71.68	0.96
Asta	3090	tr 50	54.45	127.39	128.25		128.38	0.011448	1.79	33.73	73.11	0.77
Asta	3090	tr 100	65.38	127.39	128.31		128.46	0.011135	1.89	38.24	74.55	0.77
Asta	3090	tr 200	76.51	127.39	128.36		128.53	0.011080	2.00	42.36	75.92	0.78
Asta	3090	tr 500	91.54	127.39	128.43		128.62	0.011096	2.13	47.49	77.23	0.80
Asta	3060	tr 50	54.45	126.95	127.95		128.08	0.008907	1.95	36.46	75.26	0.72
Asta	3060	tr 100	65.38	126.95	128.01		128.15	0.009262	2.09	41.09	79.43	0.74
Asta	3060	tr 200	76.51	126.95	128.06		128.22	0.009527	2.21	45.26	81.39	0.76
Asta	3060	tr 500	91.54	126.95	128.13		128.31	0.009836	2.35	50.35	82.94	0.78
Asta	3030	tr 50	54.45	126.70	127.67		127.79	0.010048	2.08	37.06	88.10	0.76
Asta	3030	tr 100	65.38	126.70	127.73		127.87	0.009910	2.17	42.70	94.74	0.77
Asta	3030	tr 200	76.51	126.70	127.78		127.93	0.010049	2.27	47.23	96.36	0.78
Asta	3030	tr 500	91.54	126.70	127.84		128.00	0.010109	2.39	53.20	98.78	0.79
Asta	3000	tr 50	54.45	126.44	127.28		127.44	0.013343	2.30	32.26	78.04	0.87
Asta	3000	tr 100	65.38	126.44	127.34	127.30	127.52	0.013544	2.43	36.49	82.37	0.89
Asta	3000	tr 200	76.51	126.44	127.40	127.36	127.58	0.012789	2.48	41.72	92.14	0.87
Asta	3000	tr 500	91.54	126.44	127.46	127.42	127.67	0.012328	2.57	48.14	97.31	0.87
Asta	2967.377	tr 50	54.45	125.85	126.83	126.83	127.03	0.011728	2.39	31.86	76.12	0.84
Asta	2967.377	tr 100	65.38	125.85	126.89	126.89	127.10	0.011585	2.49	36.60	78.49	0.84
Asta	2967.377	tr 200	76.51	125.85	126.94	126.94	127.17	0.012151	2.63	40.22	79.76	0.87
Asta	2967.377	tr 500	91.54	125.85	127.00	127.00	127.26	0.012307	2.77	45.40	81.69	0.88
Asta	2940	tr 50	54.45	125.82	126.43	126.44	126.64	0.018908	1.90	28.23	71.71	0.94
Asta	2940	tr 100	65.38	125.82	126.49	126.49	126.71	0.018181	2.02	32.33	76.70	0.94
Asta	2940	tr 200	76.51	125.82	126.55	126.55	126.78	0.016734	2.11	37.35	84.90	0.93
Asta	2940	tr 500	91.54	125.82	126.62	126.63	126.87	0.015857	2.24	43.61	88.78	0.92
Asta	2910	tr 50	54.45	125.19	125.88	125.88	126.10	0.017468	2.46	27.39	64.48	0.98
Asta	2910	tr 100	65.38	125.19	125.93	125.95	126.18	0.017599	2.61	31.20	66.60	1.00

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	2910	tr 200	76.51	125.19	125.98	126.01	126.26	0.018483	2.78	34.08	67.55	1.03
Asta	2910	tr 500	91.54	125.19	126.04	126.07	126.36	0.018816	2.96	38.19	69.07	1.05
Asta	2880	tr 50	54.45	124.50	125.38	125.26	125.53	0.008682	1.96	33.37	61.13	0.71
Asta	2880	tr 100	65.38	124.50	125.44	125.34	125.61	0.008765	2.09	37.60	62.49	0.73
Asta	2880	tr 200	76.51	124.50	125.51	125.40	125.70	0.008965	2.22	41.78	65.70	0.74
Asta	2880	tr 500	91.54	124.50	125.59	125.47	125.80	0.008929	2.35	47.42	69.50	0.75
Asta	2850	tr 50	54.45	124.24	125.10		125.25	0.009594	1.91	32.79	60.50	0.73
Asta	2850	tr 100	65.38	124.24	125.18		125.34	0.009283	2.01	37.38	61.85	0.73
Asta	2850	tr 200	76.51	124.24	125.25		125.42	0.009140	2.11	41.55	62.69	0.74
Asta	2850	tr 500	91.54	124.24	125.33		125.53	0.008846	2.22	47.21	64.23	0.74
Asta	2820	tr 50	54.45	123.66	124.66	124.66	124.90	0.013791	2.72	27.11	52.57	0.92
Asta	2820	tr 100	65.38	123.66	124.72	124.72	124.99	0.014035	2.88	30.43	53.14	0.94
Asta	2820	tr 200	76.51	123.66	124.78	124.78	125.08	0.013908	2.99	33.85	53.78	0.94
Asta	2820	tr 500	91.54	123.66	124.86	124.86	125.19	0.014060	3.15	37.96	54.67	0.96
Asta	2790	tr 50	54.45	123.51	124.18	123.95	124.32	0.004638	1.12	35.50	45.56	0.49
Asta	2790	tr 100	65.38	123.51	124.26	124.03	124.42	0.005104	1.28	39.05	46.76	0.52
Asta	2790	tr 200	76.51	123.51	124.32	124.11	124.51	0.005571	1.44	42.34	48.73	0.56
Asta	2790	tr 500	91.54	123.51	124.41	124.19	124.63	0.006074	1.63	46.79	53.11	0.59
Asta	2764.231	tr 50	54.45	123.13	123.87	123.86	124.10	0.017840	2.23	26.98	57.34	0.96
Asta	2764.231	tr 100	65.38	123.13	123.93	123.92	124.19	0.017058	2.35	30.82	57.93	0.96
Asta	2764.231	tr 200	76.51	123.13	124.00	123.99	124.28	0.015842	2.44	34.90	58.33	0.94
Asta	2764.231	tr 500	91.54	123.13	124.10	124.06	124.39	0.014448	2.53	40.30	59.02	0.92
Asta	2730	tr 50	54.45	122.16	123.21	123.21	123.52	0.015481	2.71	24.85	41.43	0.93
Asta	2730	tr 100	65.38	122.16	123.31	123.31	123.64	0.014543	2.82	29.14	43.91	0.92
Asta	2730	tr 200	76.51	122.16	123.39	123.39	123.76	0.014113	2.94	33.00	46.41	0.92
Asta	2730	tr 500	91.54	122.16	123.49	123.49	123.89	0.013904	3.10	37.69	47.32	0.92
Asta	2700	tr 50	54.45	121.69	122.90	122.73	123.10	0.008354	2.17	32.05	40.51	0.67
Asta	2700	tr 100	65.38	121.69	123.00	122.81	123.22	0.008343	2.30	36.29	41.54	0.68
Asta	2700	tr 200	76.51	121.69	123.08	122.89	123.33	0.008924	2.49	39.45	42.31	0.71
Asta	2700	tr 500	91.54	121.69	123.17	123.00	123.47	0.009687	2.72	43.33	43.24	0.75
Asta	2670	tr 50	54.45	121.49	122.57	122.57	122.80	0.011175	2.41	27.25	45.60	0.82
Asta	2670	tr 100	65.38	121.49	122.61	122.61	122.90	0.013358	2.71	29.00	46.03	0.91
Asta	2670	tr 200	76.51	121.49	122.68	122.68	123.00	0.013435	2.85	32.11	46.78	0.92
Asta	2670	tr 500	91.54	121.49	122.76	122.76	123.12	0.013453	3.02	36.12	47.73	0.93
Asta	2640	tr 50	54.45	120.78	121.51	121.72	122.16	0.046069	3.94	16.05	35.18	1.59
Asta	2640	tr 100	65.38	120.78	121.61	121.80	122.24	0.037689	3.93	19.86	39.54	1.47
Asta	2640	tr 200	76.51	120.78	121.67	121.88	122.35	0.036072	4.08	22.54	41.20	1.46
Asta	2640	tr 500	91.54	120.78	121.76	121.97	122.48	0.034558	4.26	26.08	43.56	1.45
Asta	2616.739	tr 50	54.45	120.21	121.56	121.50	121.79	0.010203	2.80	27.66	44.69	0.82
Asta	2616.739	tr 100	65.38	120.21	121.66	121.58	121.90	0.009590	2.86	32.33	47.49	0.80
Asta	2616.739	tr 200	76.51	120.21	121.74	121.66	122.01	0.010272	3.08	36.00	51.61	0.84
Asta	2616.739	tr 500	91.54	120.21	121.85	121.76	122.13	0.009939	3.19	41.93	55.45	0.84
Asta	2580	tr 50	54.45	120.03	121.06	121.06	121.34	0.014619	2.80	24.47	41.65	0.94
Asta	2580	tr 100	65.38	120.03	121.12	121.12	121.45	0.015659	3.03	27.02	42.47	0.99
Asta	2580	tr 200	76.51	120.03	121.21	121.21	121.56	0.014409	3.09	31.10	44.50	0.96
Asta	2580	tr 500	91.54	120.03	121.30	121.30	121.68	0.014419	3.27	35.10	45.68	0.98
Asta	2550	tr 50	54.45	119.52	120.67	120.53	120.89	0.008103	2.28	27.48	35.73	0.72
Asta	2550	tr 100	65.38	119.52	120.76	120.62	121.02	0.008402	2.46	30.78	37.00	0.74
Asta	2550	tr 200	76.51	119.52	120.84	120.70	121.13	0.008778	2.63	33.76	37.95	0.77
Asta	2550	tr 500	91.54	119.52	120.95	120.82	121.28	0.009094	2.83	37.70	39.16	0.79
Asta	2520	tr 50	54.45	119.12	120.21	120.21	120.54	0.017603	3.02	22.00	34.62	1.02
Asta	2520	tr 100	65.38	119.12	120.31	120.31	120.66	0.016944	3.17	25.40	36.64	1.02
Asta	2520	tr 200	76.51	119.12	120.40	120.40	120.77	0.016247	3.29	28.82	38.41	1.01
Asta	2520	tr 500	91.54	119.12	120.50	120.50	120.91	0.016025	3.46	32.64	39.60	1.02
Asta	2490	tr 50	54.45	118.23	119.42	119.53	119.90	0.024132	3.76	18.54	29.96	1.21
Asta	2490	tr 100	65.38	118.23	119.50	119.63	120.04	0.024118	3.98	21.13	31.40	1.23
Asta	2490	tr 200	76.51	118.23	119.58	119.72	120.16	0.023827	4.15	23.71	32.64	1.24
Asta	2490	tr 500	91.54	118.23	119.69	119.88	120.31	0.023071	4.32	27.19	34.66	1.23
Asta	2460	tr 50	54.45	117.86	119.37	119.11	119.56	0.005780	2.22	29.40	32.28	0.63
Asta	2460	tr 100	65.38	117.86	119.46	119.22	119.69	0.006400	2.44	32.16	32.97	0.67
Asta	2460	tr 200	76.51	117.86	119.54	119.32	119.80	0.006991	2.65	34.84	33.91	0.71
Asta	2460	tr 500	91.54	117.86	119.63	119.42	119.95	0.007727	2.91	38.13	34.90	0.75
Asta	2430	tr 50	54.45	118.05	119.18		119.36	0.008342	1.95	29.70	43.95	0.70
Asta	2430	tr 100	65.38	118.05	119.25		119.46	0.008812	2.13	32.87	44.72	0.73
Asta	2430	tr 200	76.51	118.05	119.33		119.56	0.008796	2.25	36.44	45.55	0.74
Asta	2430	tr 500	91.54	118.05	119.42		119.69	0.009059	2.43	40.57	46.48	0.76

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	2400	tr 50	54.45	117.45	118.71	118.71	119.02	0.013813	2.98	24.20	40.05	0.93
Asta	2400	tr 100	65.38	117.45	118.84	118.84	119.15	0.011783	2.97	29.77	46.20	0.88
Asta	2400	tr 200	76.51	117.45	118.91	118.91	119.24	0.012168	3.14	32.92	47.51	0.90
Asta	2400	tr 500	91.54	117.45	119.01	119.01	119.37	0.012083	3.28	37.50	49.60	0.91
Asta	2370	tr 50	54.45	116.95	118.17	118.24	118.51	0.021198	2.98	22.49	45.55	1.10
Asta	2370	tr 100	65.38	116.95	118.20	118.29	118.63	0.025377	3.35	23.93	45.79	1.21
Asta	2370	tr 200	76.51	116.95	118.26	118.38	118.73	0.024810	3.48	26.74	46.25	1.21
Asta	2370	tr 500	91.54	116.95	118.33	118.46	118.85	0.024538	3.67	30.28	47.45	1.22
Asta	2340	tr 50	54.45	116.23	117.28	117.06	117.41	0.005713	1.63	35.49	52.71	0.58
Asta	2340	tr 100	65.38	116.23	117.37	117.14	117.52	0.005501	1.72	40.53	53.93	0.58
Asta	2340	tr 200	76.51	116.23	117.46	117.21	117.61	0.005452	1.82	45.08	55.03	0.59
Asta	2340	tr 500	91.54	116.23	117.58	117.29	117.75	0.005077	1.90	51.91	56.44	0.58
Asta	2318.474	tr 50	54.45	115.96	117.10		117.27	0.007168	2.04	30.97	43.44	0.67
Asta	2318.474	tr 100	65.38	115.96	117.04	117.00	117.33	0.013186	2.66	28.52	42.57	0.90
Asta	2318.474	tr 200	76.51	115.96	117.15	117.08	117.44	0.011316	2.66	33.41	44.29	0.85
Asta	2318.474	tr 500	91.54	115.96	117.20	117.18	117.56	0.013786	3.02	35.29	44.93	0.94
Asta	2295.376	tr 50	54.45	115.56	117.13		117.18	0.001133	1.07	61.83	60.55	0.28
Asta	2295.376	tr 100	65.38	115.56	117.11		117.18	0.001739	1.31	60.53	60.17	0.35
Asta	2295.376	tr 200	76.51	115.56	117.22		117.29	0.001759	1.38	67.25	61.95	0.36
Asta	2295.376	tr 500	91.54	115.56	117.29		117.38	0.002080	1.55	71.57	62.51	0.39
Asta	2262.627	tr 50	54.45	115.55	117.13	116.26	117.15	0.000431	0.67	97.10	89.21	0.18
Asta	2262.627	tr 100	65.38	115.55	117.11	116.32	117.13	0.000665	0.83	94.96	88.90	0.22
Asta	2262.627	tr 200	76.51	115.55	117.22	116.39	117.25	0.000668	0.87	105.04	90.30	0.22
Asta	2262.627	tr 500	91.54	115.55	117.29	116.46	117.33	0.000798	0.98	111.46	91.27	0.24
Asta	2251.812		Culvert									
Asta	2240.13	tr 50	54.45	114.86	115.64	115.64	115.86	0.018503	2.30	26.50	58.92	0.98
Asta	2240.13	tr 100	65.38	114.86	115.70	115.70	115.95	0.017849	2.42	30.17	60.17	0.98
Asta	2240.13	tr 200	76.51	114.86	115.76	115.76	116.03	0.017488	2.54	33.56	60.92	0.99
Asta	2240.13	tr 500	91.54	114.86	115.83	115.83	116.13	0.016836	2.67	38.07	61.84	0.99
Asta	2217.269	tr 50	54.45	113.89	114.84	114.96	115.32	0.027781	3.12	18.07	33.13	1.24
Asta	2217.269	tr 100	65.38	113.89	114.93	115.12	115.45	0.024893	3.23	21.45	39.53	1.20
Asta	2217.269	tr 200	76.51	113.89	115.02	115.19	115.55	0.022593	3.32	25.49	52.25	1.16
Asta	2217.269	tr 500	91.54	113.89	115.11	115.26	115.67	0.021608	3.47	30.30	56.19	1.15
Asta	2190	tr 50	54.45	113.47	114.58	114.58	114.82	0.011857	2.32	27.89	61.66	0.83
Asta	2190	tr 100	65.38	113.47	114.64	114.66	114.91	0.012251	2.48	31.80	64.25	0.86
Asta	2190	tr 200	76.51	113.47	114.67	114.73	115.00	0.014584	2.76	33.60	64.94	0.94
Asta	2190	tr 500	91.54	113.47	114.72	114.80	115.11	0.016330	3.03	36.74	65.14	1.00
Asta	2160	tr 50	54.45	113.21	114.35	114.04	114.44	0.004083	1.51	44.59	68.83	0.48
Asta	2160	tr 100	65.38	113.21	114.45	114.11	114.55	0.003807	1.55	51.67	72.30	0.47
Asta	2160	tr 200	76.51	113.21	114.53	114.20	114.63	0.003926	1.65	57.34	73.56	0.49
Asta	2160	tr 500	91.54	113.21	114.65	114.24	114.76	0.003596	1.69	66.15	73.99	0.47
Asta	2130	tr 50	54.45	112.63	113.98	113.96	114.24	0.011334	2.39	26.45	47.44	0.82
Asta	2130	tr 100	65.38	112.63	114.04	114.04	114.34	0.012686	2.63	29.00	48.57	0.88
Asta	2130	tr 200	76.51	112.63	114.15	114.11	114.44	0.010534	2.59	34.68	50.82	0.81
Asta	2130	tr 500	91.54	112.63	114.23	114.19	114.56	0.011263	2.82	38.81	52.20	0.85
Asta	2100	tr 50	54.45	112.26	113.57	113.57	113.88	0.011821	2.75	24.28	38.67	0.87
Asta	2100	tr 100	65.38	112.26	113.72	113.67	114.00	0.009075	2.65	30.61	41.39	0.78
Asta	2100	tr 200	76.51	112.26	113.75	113.75	114.11	0.011032	2.97	31.90	41.57	0.86
Asta	2100	tr 500	91.54	112.26	113.90	113.86	114.25	0.009682	3.00	37.98	46.42	0.82
Asta	2066.35	tr 50	54.45	112.10	113.56	113.05	113.65	0.002395	1.34	43.81	47.53	0.40
Asta	2066.35	tr 100	65.38	112.10	113.73		113.82	0.002134	1.38	51.99	50.18	0.39
Asta	2066.35	tr 200	76.51	112.10	113.76		113.87	0.002687	1.58	53.58	50.61	0.43
Asta	2066.35	tr 500	91.54	112.10	113.90		114.02	0.002721	1.69	60.68	52.57	0.44
Asta	2036.066	tr 50	54.45	111.50	113.51	112.92	113.57	0.001973	0.66	55.32	59.30	0.18
Asta	2036.066	tr 100	65.38	111.50	113.69	113.01	113.75	0.001673	0.66	65.86	60.18	0.17
Asta	2036.066	tr 200	76.51	111.50	113.71	113.08	113.79	0.002172	0.76	67.03	60.28	0.19
Asta	2036.066	tr 500	91.54	111.50	113.85	113.17	113.94	0.002163	0.81	75.50	61.06	0.20
Asta	2021.99		Culvert									
Asta	2012.377	tr 50	54.45	110.72	111.95	111.95	112.26	0.013167	3.33	23.55	36.95	1.03
Asta	2012.377	tr 100	65.38	110.72	112.04	112.04	112.38	0.013034	3.50	27.04	39.21	1.03
Asta	2012.377	tr 200	76.51	110.72	112.13	112.13	112.49	0.012525	3.61	30.78	41.42	1.03
Asta	2012.377	tr 500	91.54	110.72	112.24	112.24	112.63	0.012345	3.77	35.08	43.19	1.03
Asta	1980	tr 50	54.45	110.43	111.11	111.25	111.62	0.031127	3.70	17.77	36.02	1.46
Asta	1980	tr 100	65.38	110.43	111.18	111.33	111.74	0.030684	3.90	20.10	36.76	1.47
Asta	1980	tr 200	76.51	110.43	111.24	111.41	111.86	0.030563	4.10	22.29	37.43	1.49
Asta	1980	tr 500	91.54	110.43	111.32	111.51	112.01	0.029362	4.30	25.38	38.36	1.48

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	1957.119	tr 50	54.45	110.27	110.98	110.98	111.27	0.015028	2.39	23.21	41.48	0.99
Asta	1957.119	tr 100	65.38	110.27	111.06	111.06	111.38	0.014436	2.53	26.33	41.91	0.99
Asta	1957.119	tr 200	76.51	110.27	111.13	111.13	111.48	0.013927	2.67	29.35	42.33	0.99
Asta	1957.119	tr 500	91.54	110.27	111.22	111.22	111.62	0.013329	2.82	33.27	42.87	0.99
Asta	1920	tr 50	54.45	109.29	110.46	110.27	110.62	0.006512	1.95	31.07	41.90	0.66
Asta	1920	tr 100	65.38	109.29	110.54	110.35	110.73	0.006842	2.12	34.47	42.77	0.68
Asta	1920	tr 200	76.51	109.29	110.61	110.42	110.83	0.007219	2.28	37.60	43.78	0.71
Asta	1920	tr 500	91.54	109.29	110.69	110.51	110.95	0.007850	2.50	41.19	44.72	0.75
Asta	1903.936	tr 50	54.45	109.86	110.18	110.18	110.45	0.017071	1.46	23.85	44.11	0.94
Asta	1903.936	tr 100	65.38	109.86	110.26	110.26	110.55	0.016924	1.72	27.09	45.77	0.97
Asta	1903.936	tr 200	76.51	109.86	110.33	110.33	110.65	0.016703	1.95	30.41	47.82	1.00
Asta	1903.936	tr 500	91.54	109.86	110.42	110.42	110.77	0.015935	2.21	35.20	51.13	1.01
Asta	1860	tr 50	54.45	108.55	109.31	109.35	109.61	0.021721	2.78	22.79	49.52	1.10
Asta	1860	tr 100	65.38	108.55	109.36	109.42	109.71	0.022060	2.96	25.57	50.72	1.12
Asta	1860	tr 200	76.51	108.55	109.41	109.48	109.81	0.022495	3.13	28.17	51.83	1.14
Asta	1860	tr 500	91.54	108.55	109.47	109.57	109.93	0.023329	3.35	31.32	53.14	1.18
Asta	1830	tr 50	54.45	108.27	109.13	108.98	109.25	0.006443	1.77	35.29	58.37	0.64
Asta	1830	tr 100	65.38	108.27	109.20	109.04	109.35	0.006481	1.89	39.60	59.18	0.65
Asta	1830	tr 200	76.51	108.27	109.27	109.09	109.43	0.006437	1.99	43.85	59.80	0.66
Asta	1830	tr 500	91.54	108.27	109.36	109.17	109.54	0.006563	2.13	49.35	64.38	0.68
Asta	1800	tr 50	54.45	107.93	108.79	108.75	108.99	0.012231	2.19	28.34	54.10	0.85
Asta	1800	tr 100	65.38	107.93	108.86		109.08	0.011979	2.31	32.03	54.86	0.86
Asta	1800	tr 200	76.51	107.93	108.92	108.86	109.17	0.012174	2.45	35.19	55.47	0.88
Asta	1800	tr 500	91.54	107.93	109.00		109.28	0.011784	2.57	39.86	56.46	0.88
Asta	1770	tr 50	54.45	107.51	108.38	108.38	108.62	0.011974	2.55	27.10	52.99	0.94
Asta	1770	tr 100	65.38	107.51	108.44	108.44	108.71	0.012088	2.70	30.48	53.58	0.96
Asta	1770	tr 200	76.51	107.51	108.50	108.50	108.80	0.011813	2.81	34.03	54.17	0.96
Asta	1770	tr 500	91.54	107.51	108.58	108.58	108.91	0.012081	3.00	37.95	54.77	0.99
Asta	1740	tr 50	54.45	107.01	107.93	107.84	108.15	0.009821	2.45	27.19	43.05	0.87
Asta	1740	tr 100	65.38	107.01	108.01	107.92	108.27	0.010501	2.69	30.69	47.16	0.91
Asta	1740	tr 200	76.51	107.01	108.08	107.97	108.37	0.010604	2.85	34.22	49.23	0.93
Asta	1740	tr 500	91.54	107.01	108.17	108.13	108.49	0.010707	3.03	38.45	50.41	0.94
Asta	1710	tr 50	54.45	106.67	107.51	107.51	107.79	0.015242	2.59	24.30	43.62	0.94
Asta	1710	tr 100	65.38	106.67	107.59	107.59	107.89	0.015004	2.73	27.53	44.47	0.95
Asta	1710	tr 200	76.51	106.67	107.65	107.65	107.99	0.014835	2.86	30.61	45.22	0.96
Asta	1710	tr 500	91.54	106.67	107.75	107.75	108.12	0.014274	2.99	34.82	46.11	0.95
Asta	1692.966	tr 50	54.45	105.97	107.07	107.16	107.49	0.018569	3.63	20.38	35.98	1.18
Asta	1692.966	tr 100	65.38	105.97	107.16	107.25	107.60	0.017628	3.75	23.70	37.87	1.17
Asta	1692.966	tr 200	76.51	105.97	107.25	107.30	107.71	0.017013	3.88	27.04	40.13	1.16
Asta	1692.966	tr 500	91.54	105.97	107.38	107.46	107.85	0.015927	4.04	32.56	43.24	1.15
Asta	1655.349	tr 50	54.45	104.88	106.40	106.45	106.86	0.014367	3.56	20.06	27.43	1.05
Asta	1655.349	tr 100	65.38	104.88	106.53	106.60	107.01	0.013571	3.69	23.65	30.07	1.04
Asta	1655.349	tr 200	76.51	104.88	106.62	106.69	107.13	0.013202	3.82	26.58	30.62	1.04
Asta	1655.349	tr 500	91.54	104.88	106.74	106.80	107.29	0.012943	3.99	30.23	31.29	1.04
Asta	1620	tr 50	54.45	104.49	106.05	106.07	106.46	0.009480	3.02	20.83	27.53	0.90
Asta	1620	tr 100	65.38	104.49	106.18	106.18	106.61	0.008779	3.12	24.63	29.56	0.88
Asta	1620	tr 200	76.51	104.49	106.29	106.29	106.75	0.008583	3.25	27.90	30.85	0.88
Asta	1620	tr 500	91.54	104.49	106.42	106.43	106.91	0.008417	3.41	32.02	32.20	0.88
Asta	1590	tr 50	54.45	104.49	105.41	105.58	106.01	0.025558	3.95	16.91	30.42	1.40
Asta	1590	tr 100	65.38	104.49	105.47	105.67	106.16	0.026981	4.25	18.74	30.85	1.46
Asta	1590	tr 200	76.51	104.49	105.54	105.76	106.30	0.026936	4.46	20.79	31.39	1.47
Asta	1590	tr 500	91.54	104.49	105.62	105.86	106.47	0.026602	4.69	23.45	31.84	1.49
Asta	1568.747	tr 50	54.45	103.95	104.88	105.06	105.45	0.026743	3.86	17.22	33.54	1.42
Asta	1568.747	tr 100	65.38	103.95	104.95	105.13	105.58	0.026629	4.08	19.52	34.49	1.44
Asta	1568.747	tr 200	76.51	103.95	105.01	105.21	105.72	0.027094	4.32	21.67	36.14	1.47
Asta	1568.747	tr 500	91.54	103.95	105.08	105.31	105.88	0.027820	4.60	24.19	36.55	1.50
Asta	1539.891	tr 50	54.45	103.82	104.67	104.67	104.95	0.013325	2.95	23.93	42.69	1.02
Asta	1539.891	tr 100	65.38	103.82	104.75	104.75	105.06	0.012918	3.07	27.22	43.55	1.02
Asta	1539.891	tr 200	76.51	103.82	104.82	104.82	105.16	0.012561	3.18	30.31	43.93	1.02
Asta	1539.891	tr 500	91.54	103.82	104.91	104.91	105.28	0.012299	3.33	34.15	44.39	1.02
Asta	1512.893	tr 50	54.45	102.80	103.87	104.03	104.45	0.022984	4.31	17.17	28.99	1.38
Asta	1512.893	tr 100	65.38	102.80	103.96	104.13	104.58	0.021552	4.42	19.79	29.59	1.35
Asta	1512.893	tr 200	76.51	102.80	104.05	104.23	104.70	0.020211	4.51	22.42	30.18	1.33
Asta	1512.893	tr 500	91.54	102.80	104.16	104.30	104.84	0.018789	4.62	25.96	33.18	1.30
Asta	1458.075	tr 50	54.45	101.66	103.53	103.13	103.79	0.005362	1.04	28.74	23.03	0.25
Asta	1458.075	tr 100	65.38	101.66	103.65	103.28	103.96	0.005951	1.15	31.53	23.91	0.27

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	1458.075	tr 200	76.51	101.66	103.77	103.42	104.13	0.006393	1.24	34.46	24.89	0.28
Asta	1458.075	tr 500	91.54	101.66	103.93	103.59	104.34	0.006946	1.36	38.46	28.42	0.30
Asta	1424.567	tr 50	54.45	101.06	103.16	102.87	103.44	0.031755	2.48	24.35	27.27	0.61
Asta	1424.567	tr 100	65.38	101.06	103.30	103.02	103.59	0.028916	2.49	28.38	29.03	0.59
Asta	1424.567	tr 200	76.51	101.06	103.46	103.04	103.74	0.024630	2.43	32.94	30.12	0.55
Asta	1424.567	tr 500	91.54	101.06	103.64	103.36	103.94	0.021047	2.38	38.57	31.29	0.52
Asta	1407.179	tr 50	54.45	100.79	102.53	102.53	103.00	0.019407	1.87	23.12	24.06	0.48
Asta	1407.179	tr 100	65.38	100.79	102.68	102.68	103.18	0.018541	1.95	26.93	25.65	0.47
Asta	1407.179	tr 200	76.51	100.79	102.78	102.78	103.34	0.019789	2.09	29.45	26.46	0.49
Asta	1407.179	tr 500	91.54	100.79	102.93	102.93	103.56	0.019553	2.19	33.69	28.62	0.50
Asta	1387.105	tr 50	54.45	100.65	101.72	101.96	102.50	0.028216	4.07	14.90	25.73	1.46
Asta	1387.105	tr 100	65.38	100.65	101.79	102.07	102.68	0.028628	4.36	16.90	26.58	1.50
Asta	1387.105	tr 200	76.51	100.65	101.87	102.17	102.83	0.027968	4.56	19.01	27.20	1.50
Asta	1387.105	tr 500	91.54	100.65	101.96	102.29	103.04	0.028538	4.89	21.44	29.02	1.54
Asta	1367.61	tr 50	54.45	100.48	101.33	101.48	101.94	0.023823	3.49	15.97	24.53	1.32
Asta	1367.61	tr 100	65.38	100.48	101.41	101.59	102.11	0.023801	3.74	17.93	24.82	1.35
Asta	1367.61	tr 200	76.51	100.48	101.48	101.69	102.28	0.023935	3.99	19.77	25.29	1.37
Asta	1367.61	tr 500	91.54	100.48	101.58	101.82	102.48	0.023726	4.26	22.23	25.87	1.39
Asta	1320.663	tr 50	54.45	99.06	100.55	100.55	100.94	0.020100	2.99	21.18	27.69	0.87
Asta	1320.663	tr 100	65.38	99.06	100.66	100.66	101.09	0.020154	3.15	24.09	28.92	0.88
Asta	1320.663	tr 200	76.51	99.06	100.77	100.77	101.23	0.019268	3.24	27.36	30.24	0.87
Asta	1320.663	tr 500	91.54	99.06	100.89	100.89	101.40	0.018819	3.37	31.15	31.22	0.86
Asta	1305.913	tr 50	54.45	98.13	100.11	99.77	100.32	0.012870	2.34	28.32	25.12	0.62
Asta	1305.913	tr 100	65.38	98.13	100.25	99.89	100.49	0.013115	2.50	31.82	25.67	0.64
Asta	1305.913	tr 200	76.51	98.13	100.37	100.00	100.65	0.013528	2.67	35.01	26.17	0.65
Asta	1305.913	tr 500	91.54	98.13	100.52	100.14	100.85	0.013979	2.88	39.09	26.80	0.67
Asta	1261.62	tr 50	54.45	97.81	99.30		99.48	0.030279	2.01	30.00	29.82	0.57
Asta	1261.62	tr 100	65.38	97.81	99.43		99.63	0.030326	2.15	34.09	32.20	0.58
Asta	1261.62	tr 200	76.51	97.81	99.56		99.78	0.029881	2.26	38.16	33.14	0.59
Asta	1261.62	tr 500	91.54	97.81	99.70		99.95	0.030031	2.41	43.04	34.16	0.60
Asta	1230.855	tr 50	54.45	96.78	98.75		98.85	0.013595	1.60	42.82	43.02	0.40
Asta	1230.855	tr 100	65.38	96.78	98.91		99.02	0.012824	1.66	50.20	46.26	0.40
Asta	1230.855	tr 200	76.51	96.78	98.95		99.08	0.016308	1.89	51.66	47.03	0.45
Asta	1230.855	tr 500	91.54	96.78	99.09		99.24	0.016565	2.01	58.86	50.23	0.46
Asta	1148.453	tr 50	54.45	93.47	96.04	96.04	96.61	0.074675	3.40	17.43	17.96	0.87
Asta	1148.453	tr 100	65.38	93.47	96.16	96.16	96.82	0.079950	3.70	19.79	21.24	0.92
Asta	1148.453	tr 200	76.51	93.47	96.55	96.55	96.98	0.044072	3.15	31.33	39.23	0.70
Asta	1148.453	tr 500	91.54	93.47	96.69	96.69	97.14	0.043567	3.28	37.08	41.69	0.71
Asta	1076.725	tr 50	54.45	92.04	94.03	93.34	94.18	0.016509	1.85	32.70	22.39	0.45
Asta	1076.725	tr 100	65.38	92.04	94.20	93.47	94.37	0.017174	2.01	36.57	23.20	0.46
Asta	1076.725	tr 200	76.51	92.04	94.35	93.59	94.55	0.017847	2.16	40.27	24.12	0.48
Asta	1076.725	tr 500	91.54	92.04	94.54	93.75	94.77	0.018761	2.34	44.87	25.20	0.50
Asta	1050	tr 50	54.45	91.40	93.41		93.61	0.027010	2.32	29.04	24.57	0.56
Asta	1050	tr 100	65.38	91.40	93.55		93.78	0.027731	2.48	32.72	25.61	0.58
Asta	1050	tr 200	76.51	91.40	93.69		93.94	0.028110	2.62	36.35	26.50	0.59
Asta	1050	tr 500	91.54	91.40	93.87		94.15	0.027885	2.76	41.08	27.14	0.59
Asta	1020	tr 50	54.45	90.64	92.58		92.76	0.028050	2.07	29.71	26.80	0.55
Asta	1020	tr 100	65.38	90.64	92.74		92.94	0.026637	2.17	34.22	28.16	0.54
Asta	1020	tr 200	76.51	90.64	92.90		93.11	0.025499	2.26	38.79	29.65	0.54
Asta	1020	tr 500	91.54	90.64	93.11		93.34	0.024119	2.37	45.42	32.45	0.54
Asta	989.9999	tr 50	54.45	89.73	92.12		92.22	0.011348	1.73	41.27	31.95	0.38
Asta	989.9999	tr 100	65.38	89.73	92.30		92.41	0.011117	1.81	47.35	33.39	0.38
Asta	989.9999	tr 200	76.51	89.73	92.48		92.60	0.010950	1.89	53.37	34.96	0.38
Asta	989.9999	tr 500	91.54	89.73	92.73		92.85	0.010319	1.95	62.24	37.31	0.38
Asta	960	tr 50	54.45	89.21	91.87		91.94	0.007345	1.39	50.47	42.86	0.30
Asta	960	tr 100	65.38	89.21	92.08		92.15	0.006778	1.42	59.98	47.76	0.29
Asta	960	tr 200	76.51	89.21	92.27		92.34	0.006290	1.44	69.36	49.07	0.29
Asta	960	tr 500	91.54	89.21	92.52		92.59	0.006468	1.55	81.97	51.47	0.29
Asta	926.5386	tr 50	54.45	88.77	91.63		91.72	0.006460	1.47	44.08	24.08	0.29
Asta	926.5386	tr 100	65.38	88.77	91.82		91.92	0.007132	1.62	48.66	25.35	0.31
Asta	926.5386	tr 200	76.51	88.77	91.99		92.11	0.007858	1.77	53.17	27.08	0.33
Asta	926.5386	tr 500	91.54	88.77	92.21		92.34	0.008607	1.94	59.32	29.38	0.35
Asta	900	tr 50	54.45	87.88	91.30		91.46	0.014268	2.20	35.51	26.95	0.42
Asta	900	tr 100	65.38	87.88	91.48		91.65	0.014543	2.31	40.18	27.41	0.42
Asta	900	tr 200	76.51	87.88	91.64		91.82	0.014749	2.41	44.63	27.80	0.43
Asta	900	tr 500	91.54	87.88	91.84		92.04	0.014912	2.52	50.31	28.24	0.44

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	870	tr 50	54.45	88.06	90.10	90.10	90.57	0.083329	3.33	19.01	20.37	0.93
Asta	870	tr 100	65.38	88.06	90.24	90.24	90.75	0.081218	3.51	21.74	20.93	0.93
Asta	870	tr 200	76.51	88.06	90.36	90.36	90.92	0.080479	3.68	24.27	21.44	0.94
Asta	870	tr 500	91.54	88.06	90.50	90.50	91.13	0.080059	3.90	27.48	22.07	0.95
Asta	840	tr 50	54.45	86.17	88.90	88.11	89.04	0.012129	1.74	35.93	25.57	0.39
Asta	840	tr 100	65.38	86.17	89.10	88.31	89.25	0.011894	1.84	41.25	26.58	0.39
Asta	840	tr 200	76.51	86.17	89.29	88.45	89.45	0.011691	1.92	46.41	27.45	0.39
Asta	840	tr 500	91.54	86.17	89.53	88.60	89.71	0.011479	2.02	53.05	28.56	0.39
Asta	809.9999	tr 50	54.45	85.62	88.47		88.64	0.014384	2.19	33.59	23.70	0.43
Asta	809.9999	tr 100	65.38	85.62	88.69		88.87	0.013661	2.25	38.98	24.54	0.43
Asta	809.9999	tr 200	76.51	85.62	88.89		89.08	0.013181	2.32	44.06	25.20	0.43
Asta	809.9999	tr 500	91.54	85.62	89.14		89.34	0.012816	2.41	50.38	25.96	0.43
Asta	775.7143	tr 50	54.45	85.16	88.24		88.32	0.005552	1.38	46.10	24.24	0.28
Asta	775.7143	tr 100	65.38	85.16	88.46		88.55	0.005804	1.49	51.46	24.89	0.29
Asta	775.7143	tr 200	76.51	85.16	88.66		88.76	0.006069	1.60	56.44	25.47	0.30
Asta	775.7143	tr 500	91.54	85.16	88.90		89.02	0.006433	1.73	62.59	26.18	0.31
Asta	750.0001	tr 50	54.45	84.27	87.81		88.06	0.019607	2.37	27.00	17.81	0.48
Asta	750.0001	tr 100	65.38	84.27	87.98		88.28	0.021427	2.59	30.17	19.28	0.50
Asta	750.0001	tr 200	76.51	84.27	88.14		88.47	0.022939	2.78	33.25	20.40	0.53
Asta	750.0001	tr 500	91.54	84.27	88.32		88.70	0.024742	3.01	37.09	21.30	0.55
Asta	719.9999	tr 50	54.45	84.73	86.73	86.73	87.13	0.056534	3.05	22.26	26.97	0.79
Asta	719.9999	tr 100	65.38	84.73	86.84	86.84	87.27	0.058616	3.25	25.18	27.39	0.81
Asta	719.9999	tr 200	76.51	84.73	86.94	86.94	87.42	0.060255	3.43	27.97	27.95	0.83
Asta	719.9999	tr 500	91.54	84.73	87.07	87.07	87.59	0.061516	3.63	31.63	28.77	0.85
Asta	689.9999	tr 50	54.45	82.25	85.09	84.88	85.46	0.040149	2.86	22.01	18.53	0.66
Asta	689.9999	tr 100	65.38	82.25	85.32	85.05	85.69	0.035800	2.91	26.35	19.65	0.63
Asta	689.9999	tr 200	76.51	82.25	85.54	85.18	85.91	0.032070	2.94	30.85	20.78	0.61
Asta	689.9999	tr 500	91.54	82.25	85.82	85.36	86.19	0.028346	2.98	36.81	22.08	0.58
Asta	660	tr 50	54.45	81.67	84.10		84.47	0.027826	2.75	21.49	12.31	0.58
Asta	660	tr 100	65.38	81.67	84.37		84.77	0.026903	2.91	24.81	13.21	0.59
Asta	660	tr 200	76.51	81.67	84.59		85.04	0.026806	3.08	27.86	13.95	0.59
Asta	660	tr 500	91.54	81.67	84.86		85.36	0.026989	3.28	31.70	14.80	0.60
Asta	630	tr 50	54.45	80.14	82.41	82.35	83.13	0.078446	3.80	14.94	9.87	0.92
Asta	630	tr 100	65.38	80.14	82.58	82.57	83.42	0.082362	4.14	16.62	10.28	0.95
Asta	630	tr 200	76.51	80.14	82.77	82.77	83.70	0.080042	4.35	18.67	10.76	0.96
Asta	630	tr 500	91.54	80.14	83.04	83.04	84.04	0.074953	4.56	21.62	11.45	0.94
Asta	599.9999	tr 50	54.45	77.53	79.68	79.68	80.48	0.099221	3.95	13.85	8.91	0.99
Asta	599.9999	tr 100	65.38	77.53	79.90	79.90	80.78	0.093828	4.16	15.89	9.50	0.99
Asta	599.9999	tr 200	76.51	77.53	80.07	80.11	81.07	0.095342	4.44	17.51	9.94	1.01
Asta	599.9999	tr 500	91.54	77.53	80.26	80.39	81.44	0.099985	4.83	19.43	10.44	1.05
Asta	569.9999	tr 50	54.45	74.79	76.54	76.64	77.30	0.112312	3.90	14.26	12.23	1.09
Asta	569.9999	tr 100	65.38	74.79	76.65	76.82	77.58	0.122337	4.29	15.64	12.58	1.15
Asta	569.9999	tr 200	76.51	74.79	76.78	77.00	77.83	0.123236	4.57	17.33	13.06	1.17
Asta	569.9999	tr 500	91.54	74.79	76.95	77.21	78.14	0.121722	4.87	19.65	13.70	1.18
Asta	549.4875	tr 50	54.45	71.39	73.41	73.73	74.57	0.155559	4.82	11.73	9.86	1.27
Asta	549.4875	tr 100	65.38	71.39	73.61	73.96	74.85	0.141350	5.01	13.82	10.76	1.24
Asta	549.4875	tr 200	76.51	71.39	73.77	74.14	75.13	0.137627	5.26	15.64	11.48	1.24
Asta	549.4875	tr 500	91.54	71.39	73.96	74.39	75.47	0.135849	5.58	17.92	12.32	1.25
Asta	510	tr 50	54.45	57.62	58.98	59.83	62.23	0.868080	7.99	6.82	8.03	2.77
Asta	510	tr 100	65.38	57.62	59.06	60.02	62.93	0.958898	8.71	7.51	8.35	2.93
Asta	510	tr 200	76.51	57.62	59.17	60.22	63.40	0.962083	9.11	8.40	8.75	2.97
Asta	510	tr 500	91.54	57.62	59.30	60.46	63.94	0.925713	9.54	9.61	9.22	2.96
Asta	479.9999	tr 50	54.45	55.75	58.67	58.54	59.31	0.066955	3.57	16.19	12.19	0.82
Asta	479.9999	tr 100	65.38	55.75	58.84	58.82	59.57	0.071017	3.88	18.24	13.18	0.86
Asta	479.9999	tr 200	76.51	55.75	59.02	59.02	59.81	0.069251	4.06	20.81	14.14	0.86
Asta	479.9999	tr 500	91.54	55.75	59.25	59.25	60.10	0.067041	4.26	24.19	15.12	0.86
Asta	449.9999	tr 50	54.45	53.81	56.33	56.33	57.06	0.083231	3.85	14.87	10.93	0.94
Asta	449.9999	tr 100	65.38	53.81	56.55	56.55	57.34	0.077383	4.03	17.39	11.86	0.92
Asta	449.9999	tr 200	76.51	53.81	56.72	56.75	57.60	0.078062	4.27	19.43	12.56	0.94
Asta	449.9999	tr 500	91.54	53.81	56.92	57.00	57.91	0.078530	4.56	22.10	13.26	0.96
Asta	420	tr 50	54.45	49.92	51.58	52.00	53.04	0.238839	5.37	10.27	8.59	1.53
Asta	420	tr 100	65.38	49.92	51.72	52.23	53.42	0.250005	5.80	11.45	8.88	1.58
Asta	420	tr 200	76.51	49.92	51.87	52.44	53.73	0.235630	6.06	12.89	9.20	1.57
Asta	420	tr 500	91.54	49.92	52.08	52.70	54.12	0.220238	6.37	14.80	9.66	1.55
Asta	390	tr 50	54.45	46.58	49.47	49.47	50.17	0.067307	4.11	16.27	11.93	0.85
Asta	390	tr 100	65.38	46.58	49.69	49.69	50.42	0.064337	4.26	19.06	13.03	0.84
Asta	390	tr 200	76.51	46.58	49.88	49.88	50.66	0.063975	4.45	21.54	13.87	0.85

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	390	tr 500	91.54	46.58	50.07	50.07	50.95	0.067045	4.76	24.31	15.02	0.88
Asta	355.1261	tr 50	54.45	44.18	45.84	46.05	46.81	0.143617	4.39	12.71	11.03	1.23
Asta	355.1261	tr 100	65.38	44.18	45.97	46.26	47.10	0.147961	4.75	14.21	11.48	1.27
Asta	355.1261	tr 200	76.51	44.18	46.11	46.44	47.37	0.144906	5.01	15.91	12.04	1.27
Asta	355.1261	tr 500	91.54	44.18	46.32	46.67	47.67	0.133833	5.23	18.49	12.73	1.25
Asta	324.1425	tr 50	54.45	41.10	43.37	42.79	43.60	0.023315	2.16	26.61	19.22	0.52
Asta	324.1425	tr 100	65.38	41.10	43.57	42.95	43.83	0.022338	2.28	30.66	19.88	0.52
Asta	324.1425	tr 200	76.51	41.10	43.77	43.10	44.04	0.021838	2.40	34.61	21.32	0.52
Asta	324.1425	tr 500	91.54	41.10	44.00	43.30	44.31	0.021078	2.53	39.79	22.30	0.52
Asta	287.1712	tr 50	54.45	38.53	41.27	41.27	42.05	0.085971	4.00	14.46	10.00	0.93
Asta	287.1712	tr 100	65.38	38.53	41.50	41.50	42.35	0.080855	4.19	16.87	10.81	0.92
Asta	287.1712	tr 200	76.51	38.53	41.73	41.73	42.62	0.074888	4.32	19.51	11.96	0.90
Asta	287.1712	tr 500	91.54	38.53	42.02	42.02	42.95	0.068944	4.47	23.20	14.00	0.88
Asta	270	tr 50	54.45	36.88	39.31	39.58	40.38	0.107086	5.04	13.21	10.29	1.11
Asta	270	tr 100	65.38	36.88	39.47	39.80	40.69	0.111758	5.41	14.97	10.97	1.15
Asta	270	tr 200	76.51	36.88	39.61	39.99	40.98	0.117926	5.79	16.54	11.48	1.19
Asta	270	tr 500	91.54	36.88	39.79	40.22	41.34	0.124091	6.22	18.58	12.00	1.24
Asta	240	tr 50	54.45	34.31	37.05	37.07	37.77	0.067295	4.21	16.17	11.74	0.88
Asta	240	tr 100	65.38	34.31	37.26	37.27	38.03	0.065806	4.41	18.73	12.39	0.88
Asta	240	tr 200	76.51	34.31	37.46	37.46	38.28	0.063718	4.57	21.35	13.03	0.88
Asta	240	tr 500	91.54	34.31	37.69	37.69	38.58	0.064081	4.83	24.36	13.68	0.89
Asta	193.583	tr 50	54.45	24.04	25.20	26.00	29.00	1.462332	8.63	6.31	10.02	3.48
Asta	193.583	tr 100	65.38	24.04	25.29	26.17	29.44	1.405076	9.02	7.25	10.45	3.46
Asta	193.583	tr 200	76.51	24.04	25.37	26.34	29.89	1.379552	9.41	8.13	10.83	3.47
Asta	193.583	tr 500	91.54	24.04	25.49	26.57	30.27	1.249491	9.68	9.46	11.28	3.36
Asta	179.9999	tr 50	54.45	21.84	23.70	23.81	24.49	0.107560	4.51	14.53	11.67	1.12
Asta	179.9999	tr 100	65.38	21.84	23.84	23.98	24.76	0.112900	4.87	16.16	11.85	1.16
Asta	179.9999	tr 200	76.51	21.84	23.96	24.15	25.02	0.118244	5.22	17.68	12.01	1.20
Asta	179.9999	tr 500	91.54	21.84	24.13	24.37	25.35	0.122896	5.62	19.69	12.22	1.24
Asta	150	tr 50	54.45	17.45	19.06	19.40	20.29	0.185540	5.52	11.72	10.63	1.45
Asta	150	tr 100	65.38	17.45	19.23	19.60	20.55	0.174890	5.76	13.55	10.91	1.44
Asta	150	tr 200	76.51	17.45	19.39	19.78	20.80	0.166271	5.99	15.39	11.27	1.42
Asta	150	tr 500	91.54	17.45	19.59	20.02	21.13	0.159609	6.30	17.69	11.70	1.42
Asta	120	tr 50	54.45	13.68	15.41	15.51	16.09	0.102157	4.24	15.79	14.46	1.08
Asta	120	tr 100	65.38	13.68	15.53	15.66	16.32	0.108837	4.59	17.48	14.73	1.12
Asta	120	tr 200	76.51	13.68	15.63	15.80	16.55	0.115302	4.92	19.05	14.96	1.17
Asta	120	tr 500	91.54	13.68	15.77	16.00	16.83	0.121866	5.30	21.09	15.25	1.22
Asta	90.00002	tr 50	54.45	8.71	10.03	10.56	11.75	0.209969	6.01	9.65	11.64	1.89
Asta	90.00002	tr 100	65.38	8.71	10.16	10.73	11.99	0.191351	6.23	11.26	12.16	1.84
Asta	90.00002	tr 200	76.51	8.71	10.29	10.89	12.22	0.177321	6.43	12.88	12.91	1.80
Asta	90.00002	tr 500	91.54	8.71	10.44	11.08	12.51	0.165517	6.70	14.92	13.62	1.78
Asta	64.10445	tr 50	54.45	7.89	9.79	9.79	10.39	0.031531	3.82	16.72	13.91	0.99
Asta	64.10445	tr 100	65.38	7.89	9.94	9.94	10.62	0.031526	4.08	18.90	14.29	1.00
Asta	64.10445	tr 200	76.51	7.89	10.11	10.11	10.84	0.030251	4.26	21.33	14.77	1.00
Asta	64.10445	tr 500	91.54	7.89	10.31	10.31	11.12	0.029145	4.48	24.43	15.38	1.00
Asta	30.00006	tr 50	54.45	4.73	6.23	6.80	8.07	0.201128	6.10	9.35	12.94	1.95
Asta	30.00006	tr 100	65.38	4.73	6.34	6.94	8.31	0.195412	6.37	10.88	14.20	1.95
Asta	30.00006	tr 200	76.51	4.73	6.43	7.04	8.57	0.197968	6.68	12.22	15.17	1.98
Asta	30.00006	tr 500	91.54	4.73	6.55	7.35	8.88	0.199475	7.04	14.02	16.73	2.01
Asta	4.667006	tr 50	54.45	-0.01	0.92	1.34	2.61	0.228352	6.35	10.16	23.66	2.38
Asta	4.667006	tr 100	65.38	-0.01	0.97	1.43	2.87	0.235975	6.78	11.48	25.02	2.45
Asta	4.667006	tr 200	76.51	-0.01	1.03	1.52	3.08	0.236757	7.12	12.92	26.86	2.48
Asta	4.667006	tr 500	91.54	-0.01	1.09	1.62	3.35	0.239010	7.51	14.62	27.87	2.53