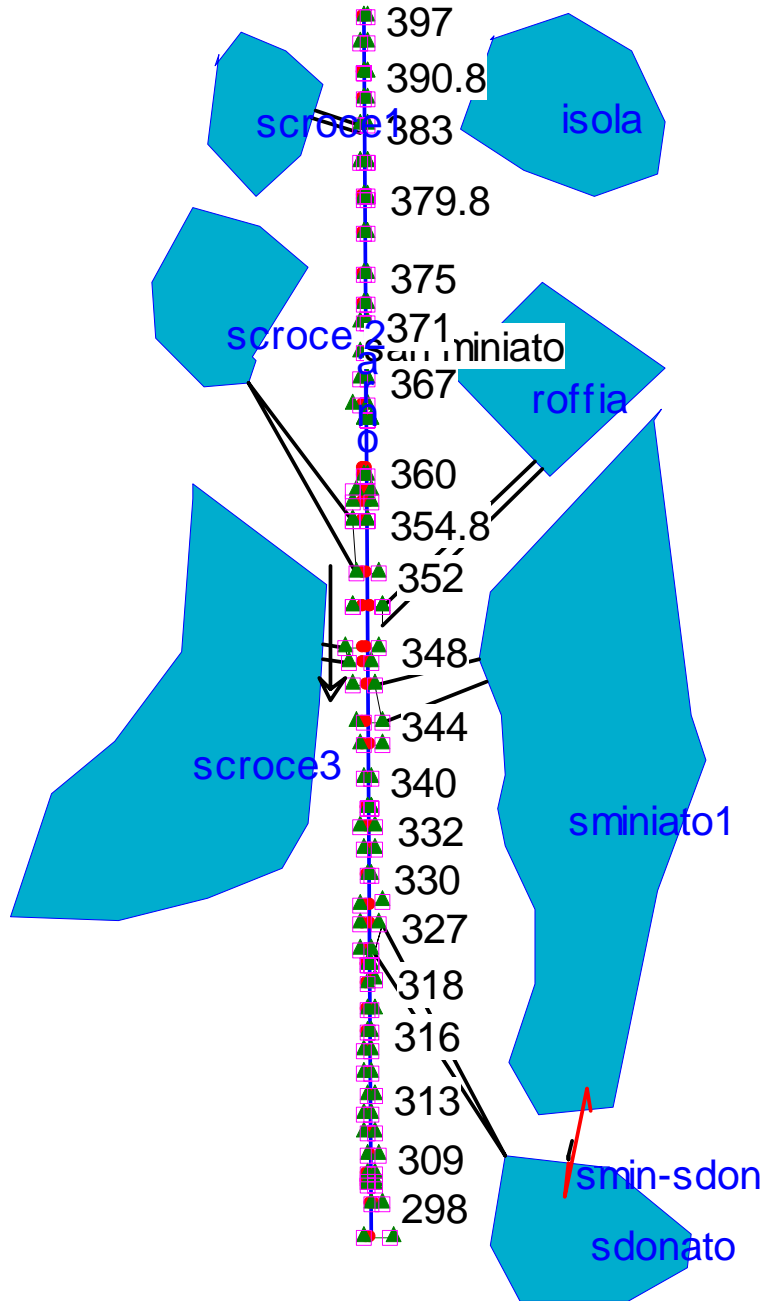


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HEC RAS

FIUME ARNO TR 200

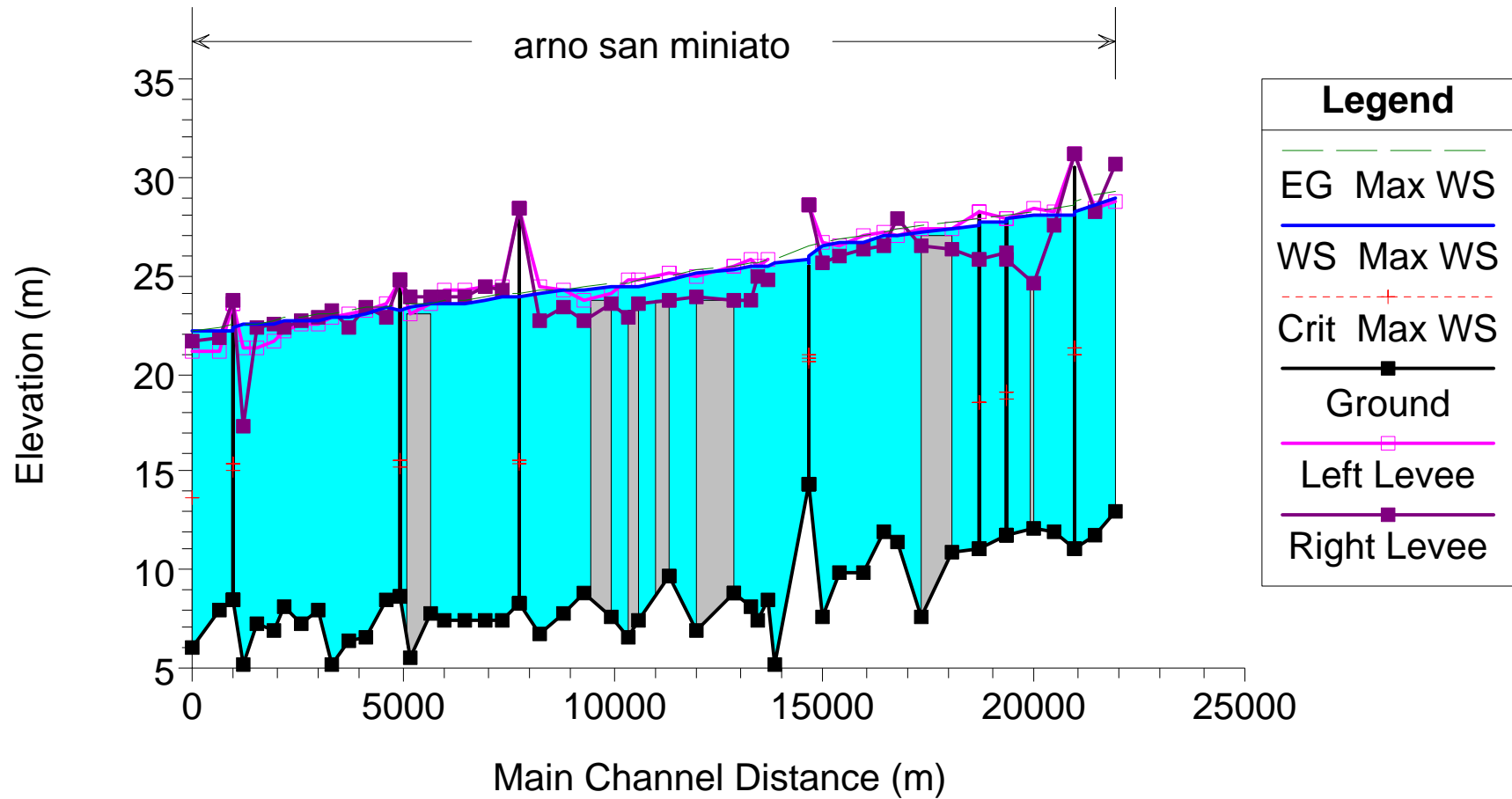
S. MINIATO

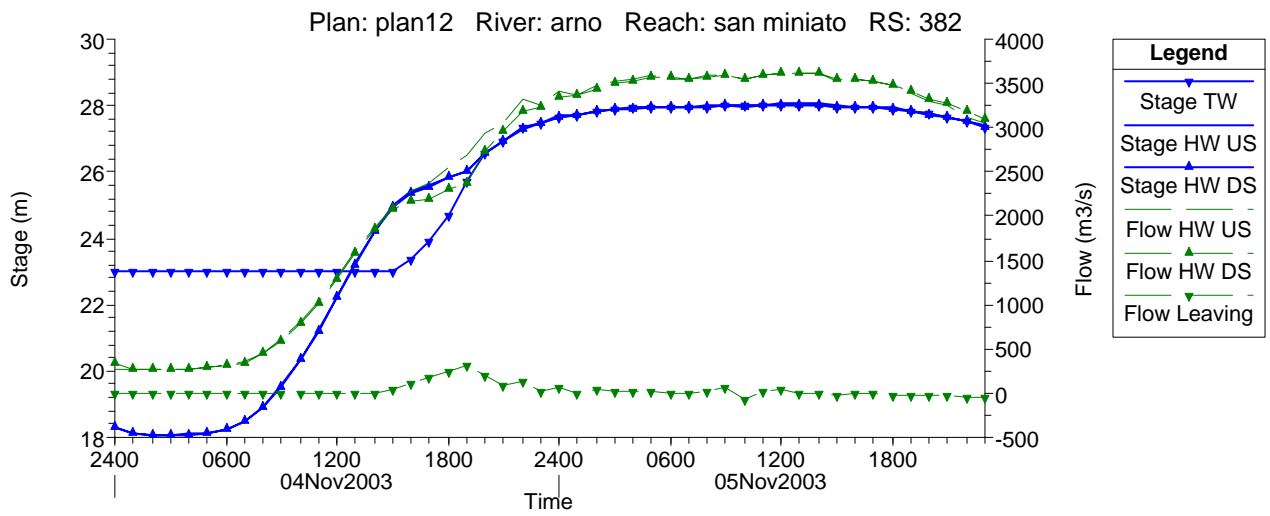
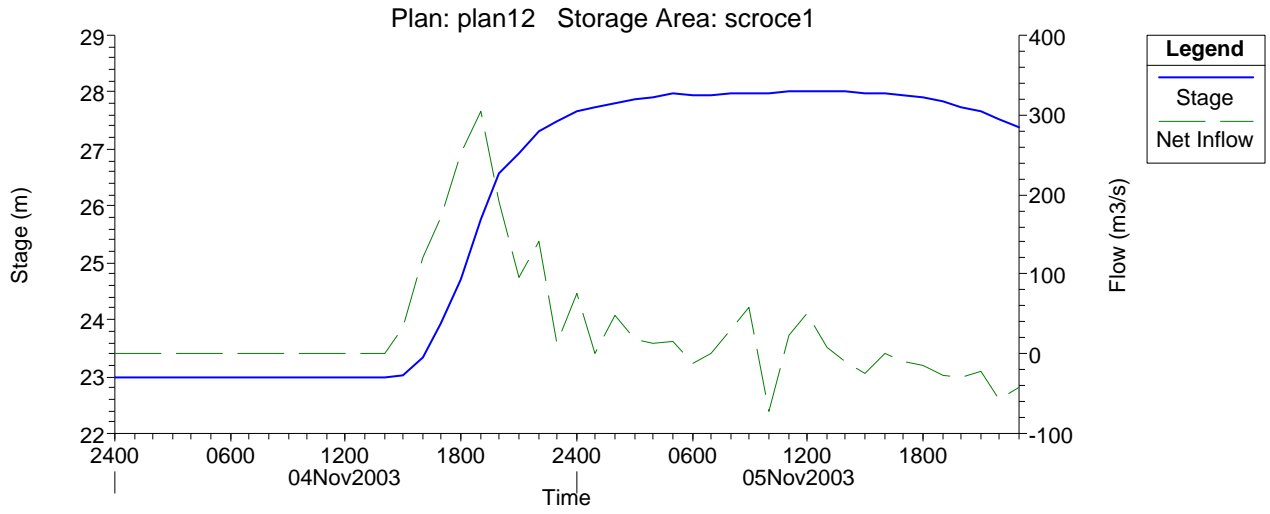


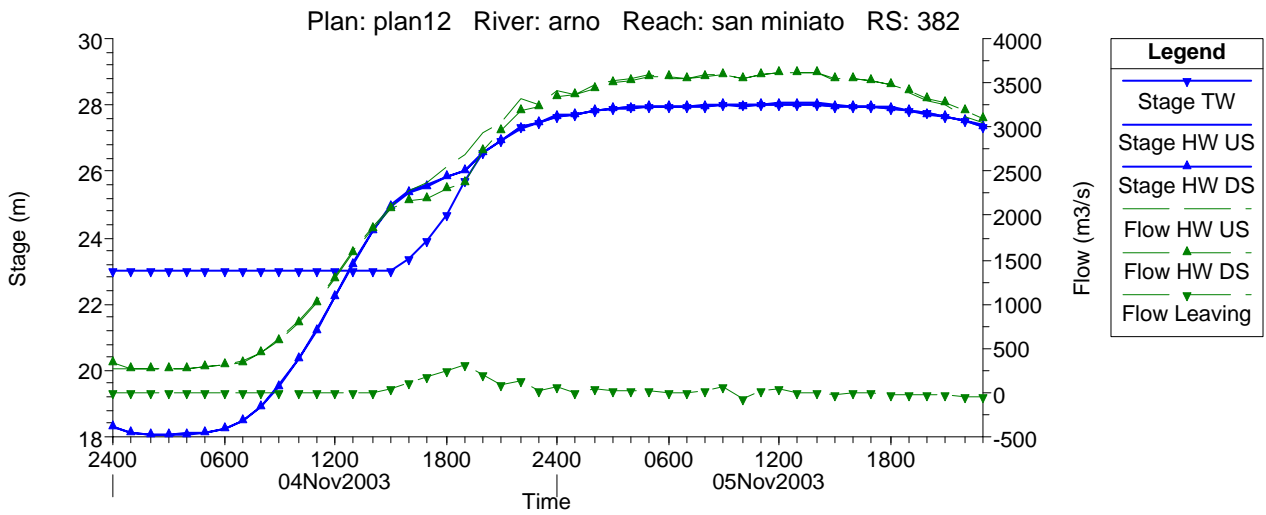
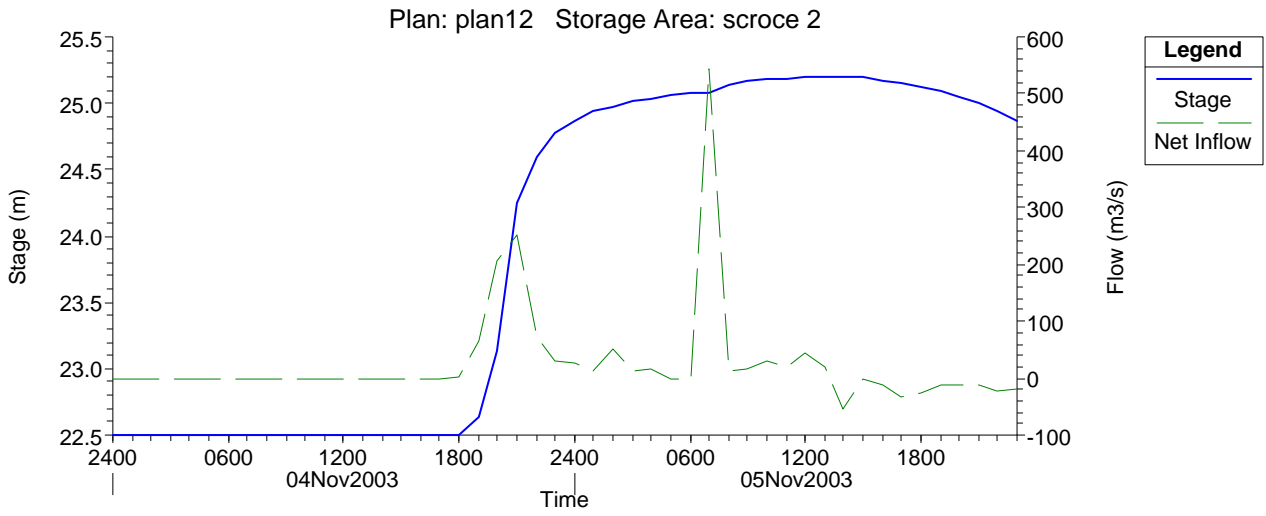


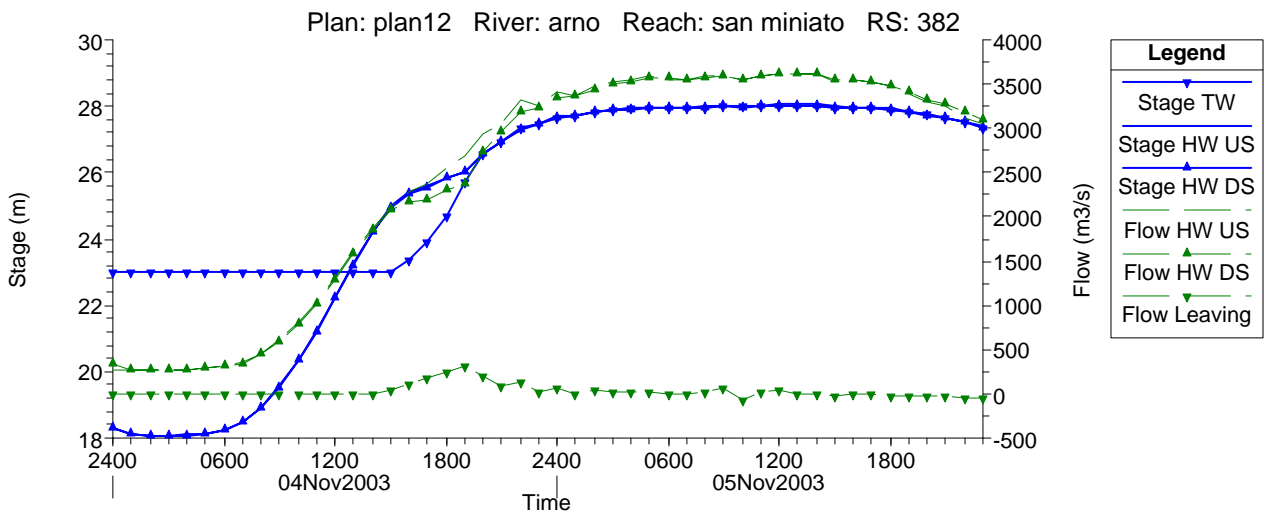
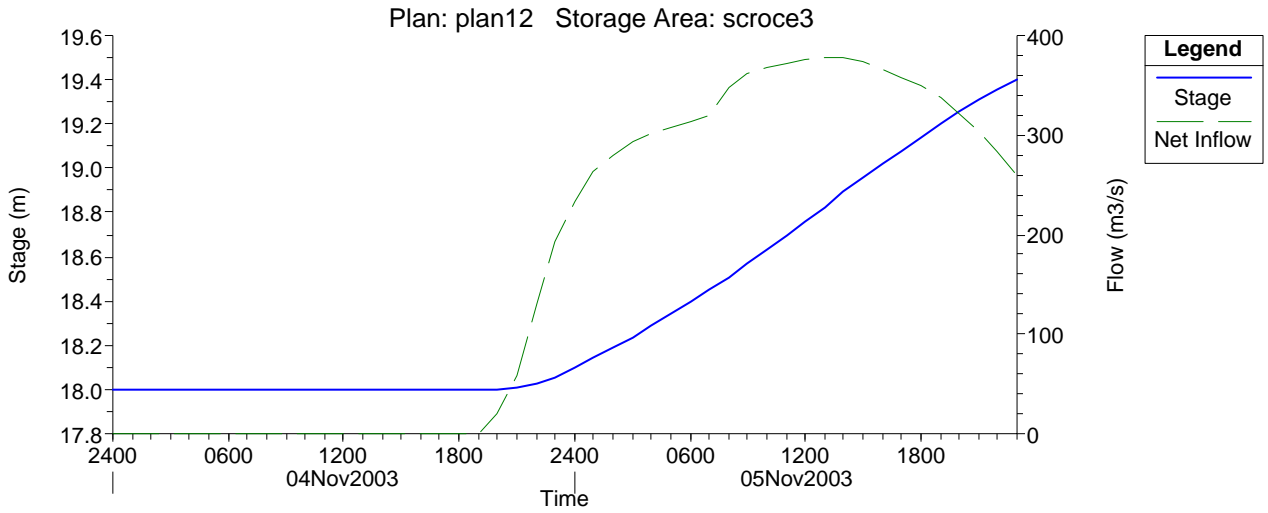
sanminsmariamam.05 sfioro minore  
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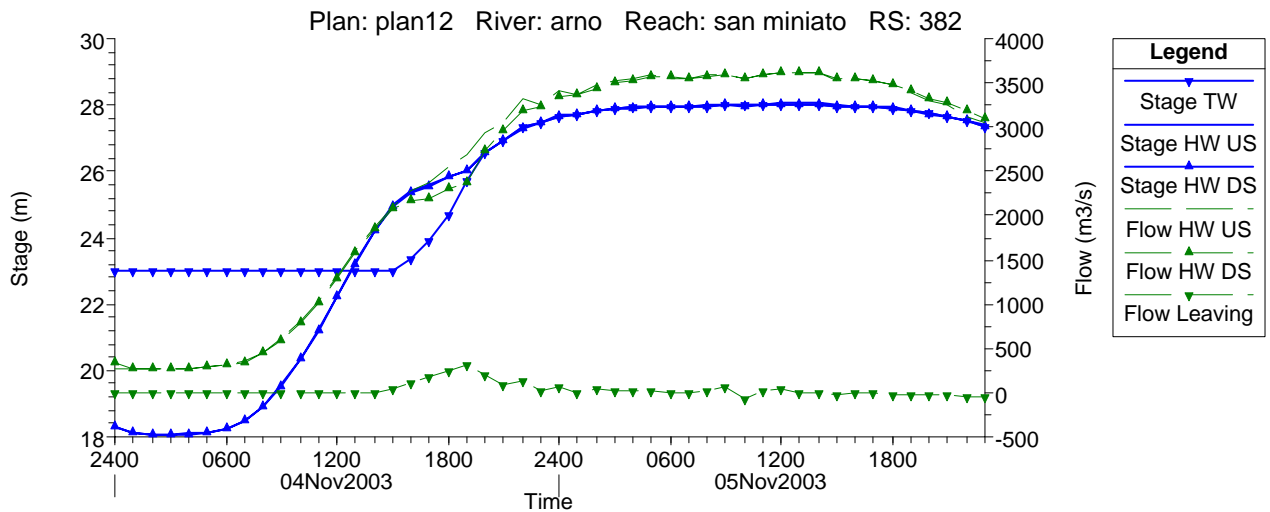
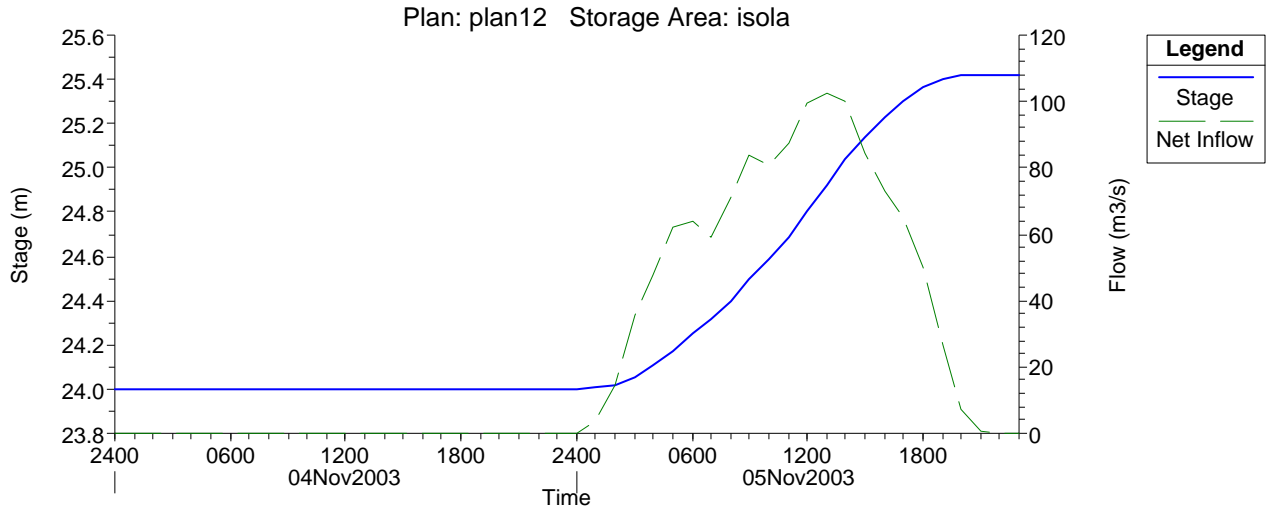
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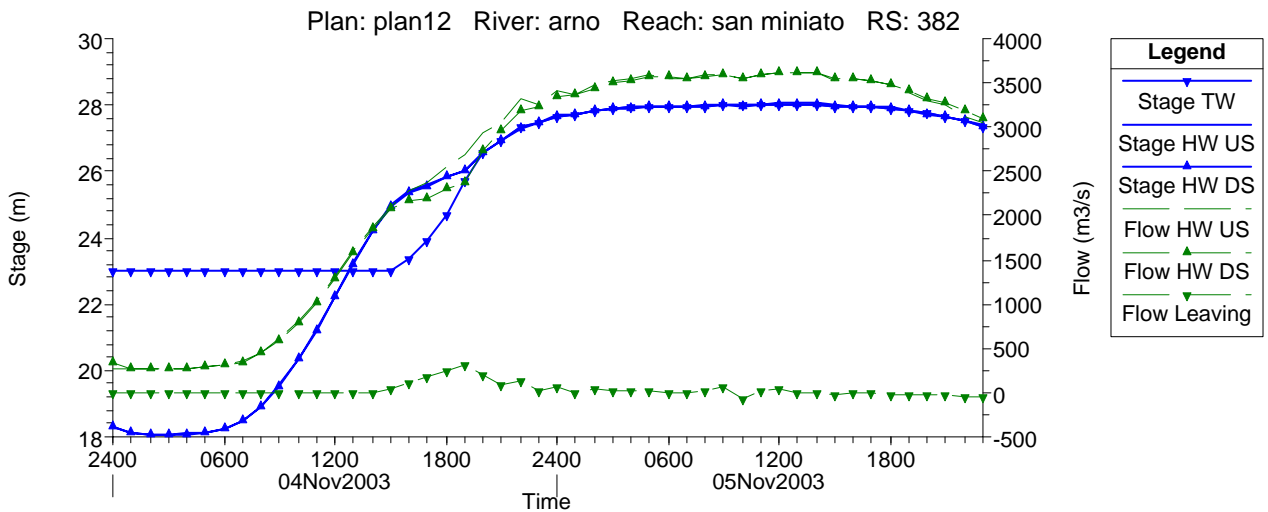
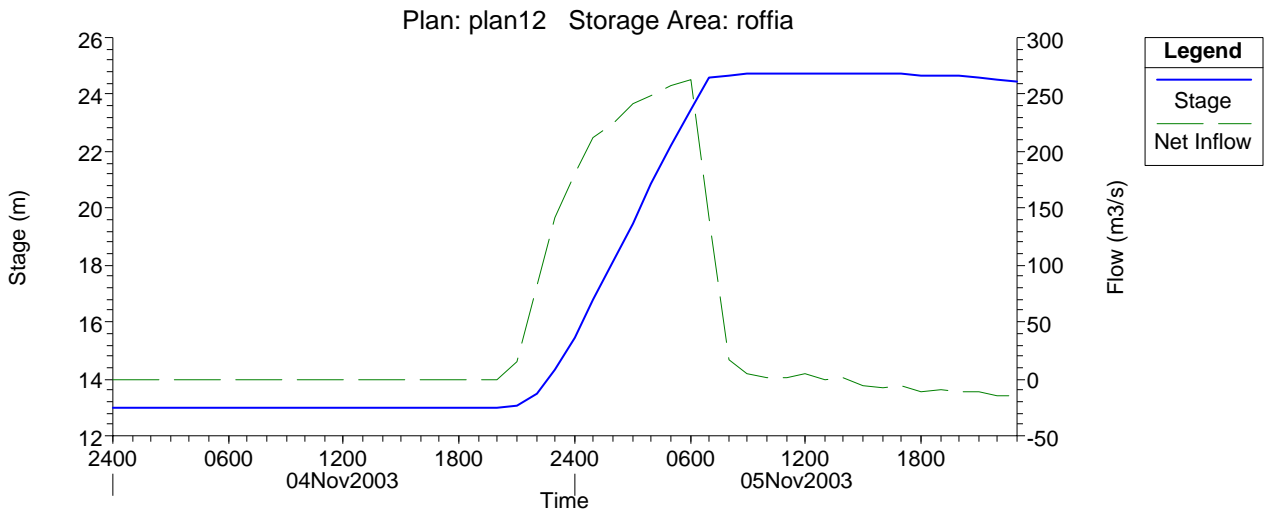




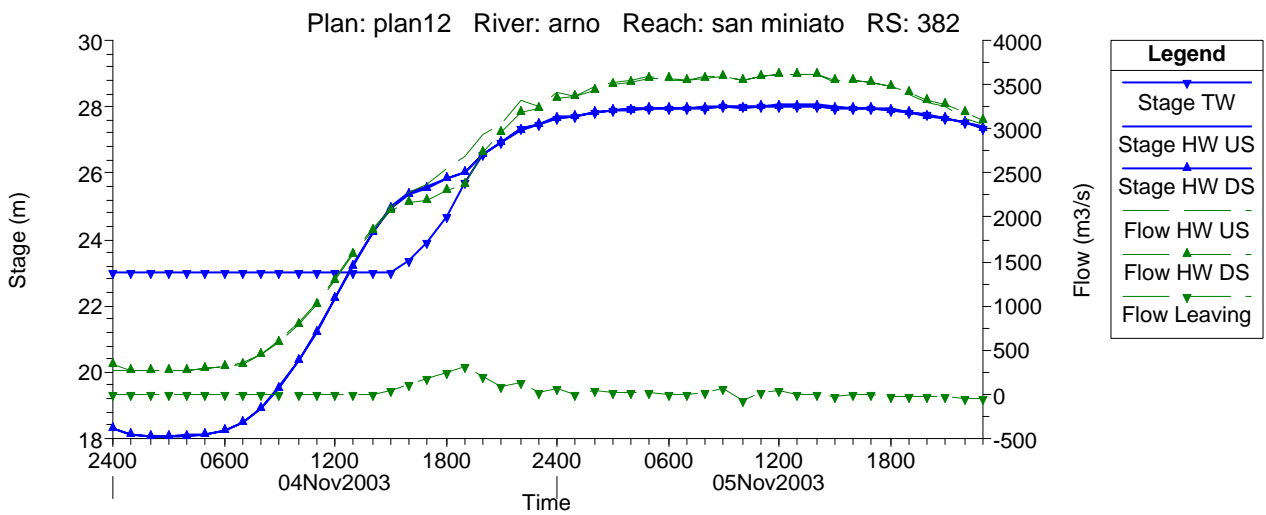
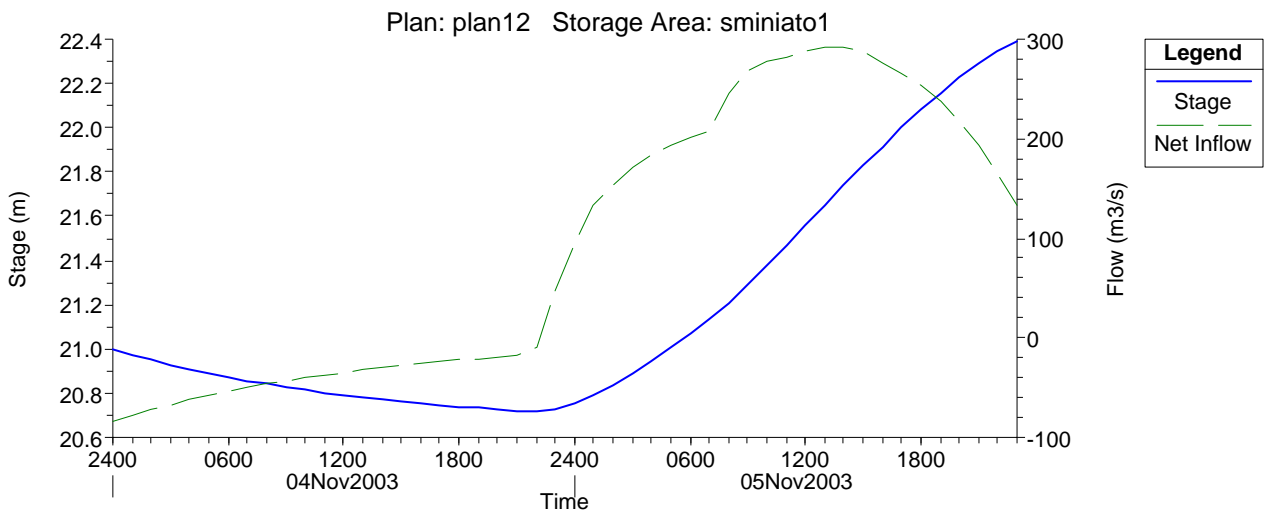


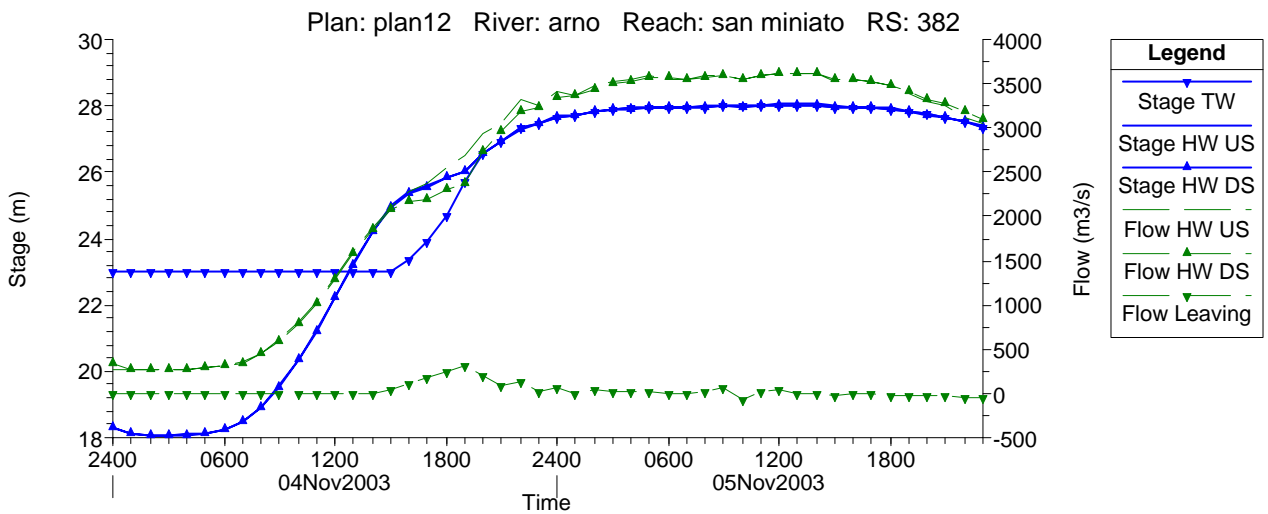
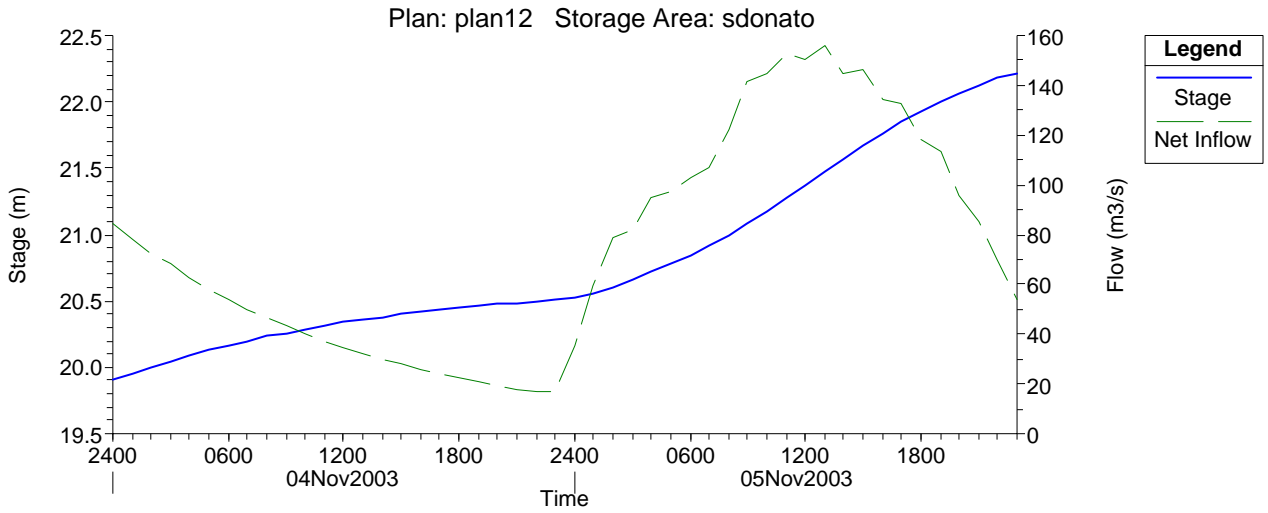


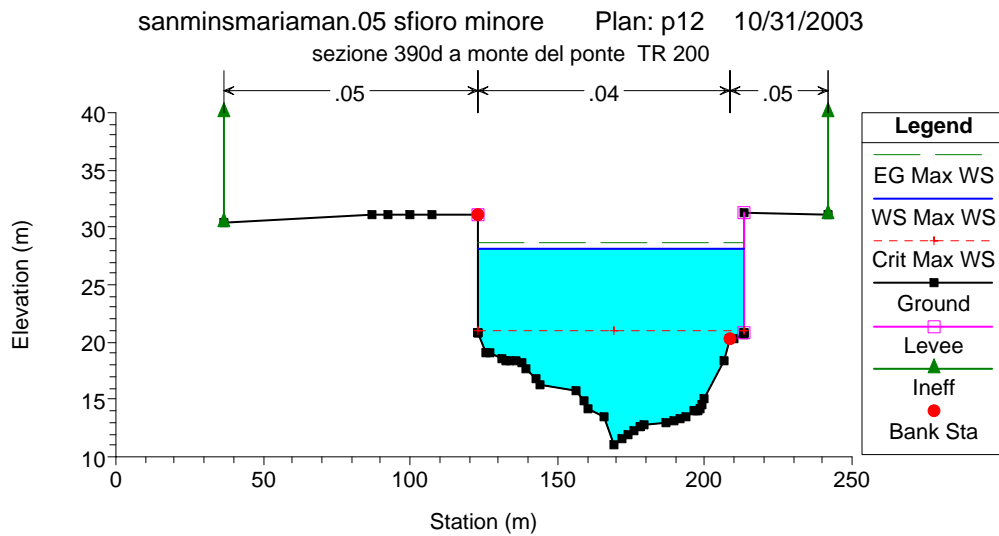
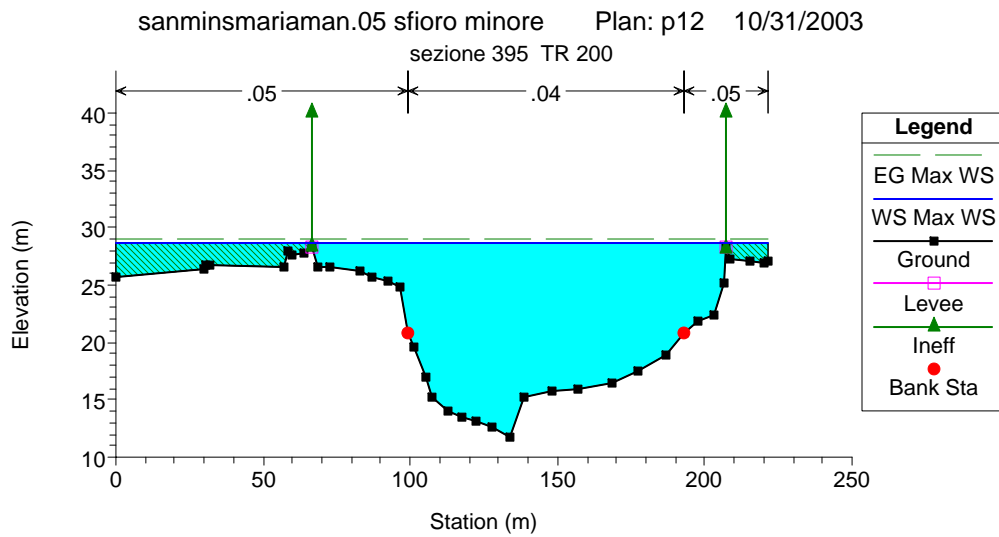
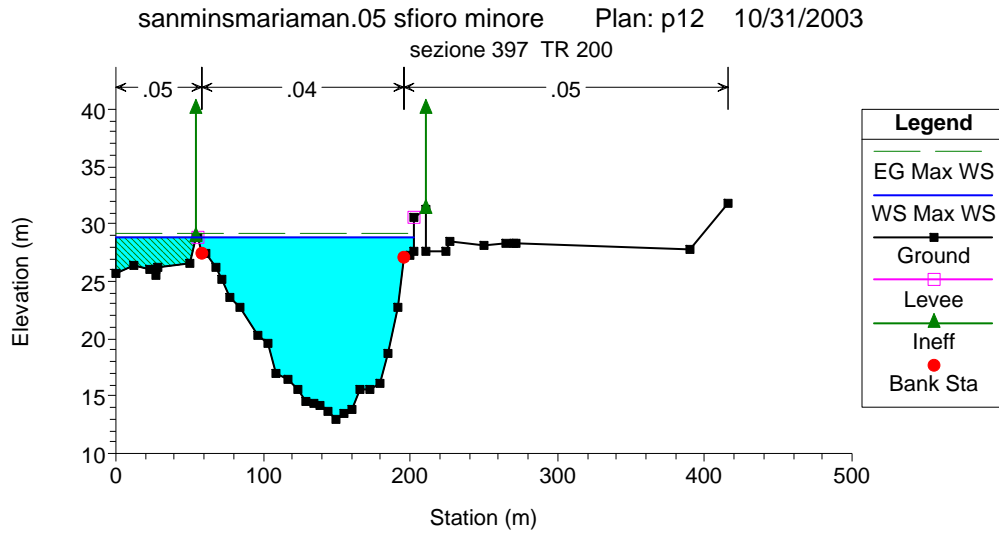


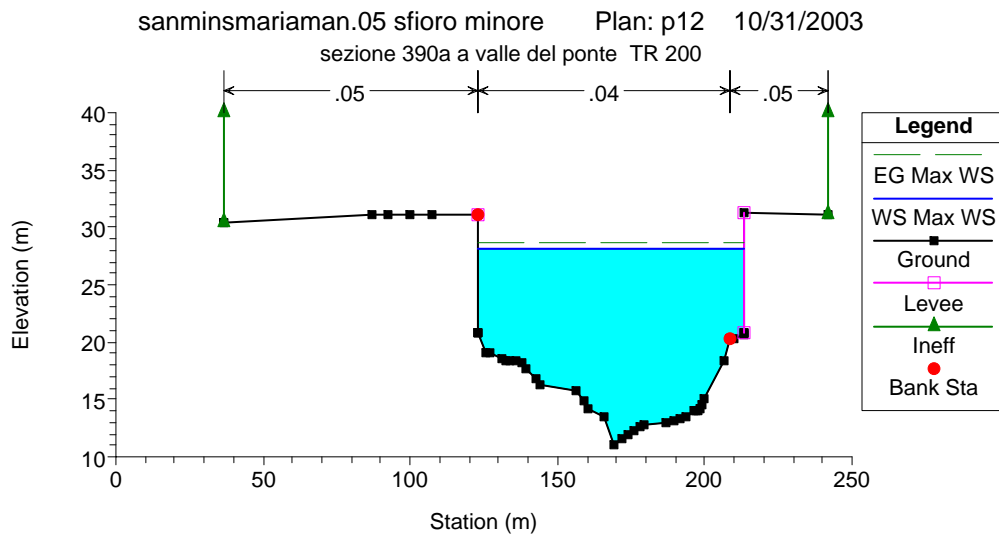
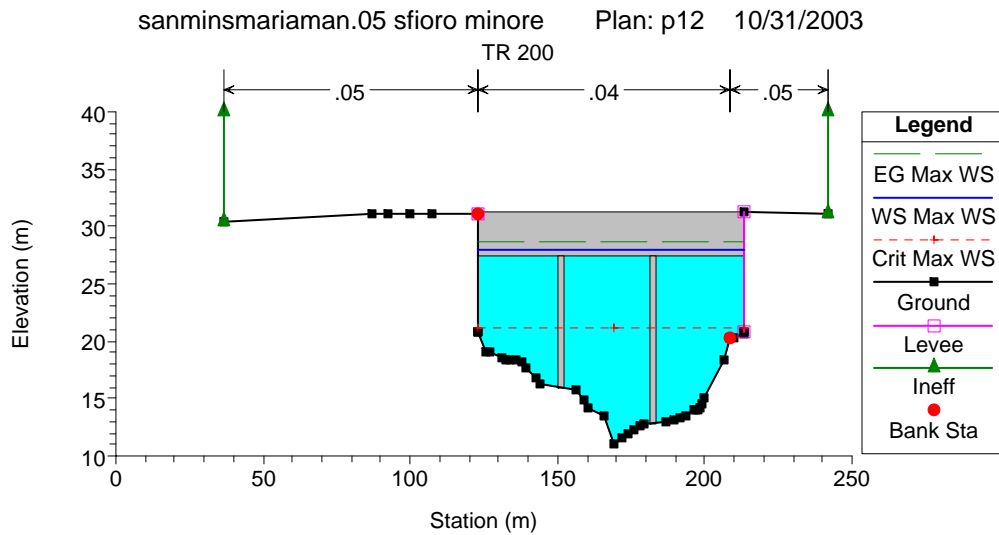
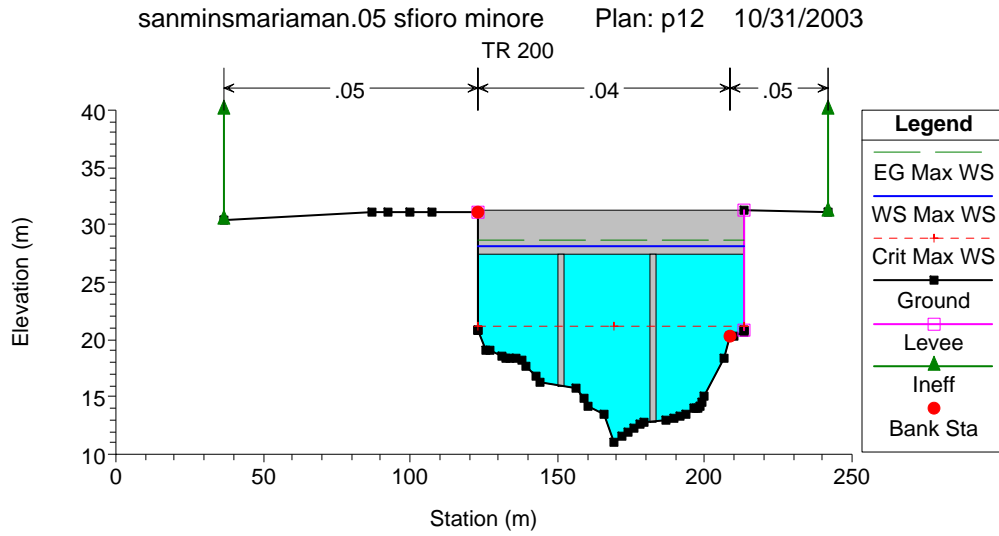


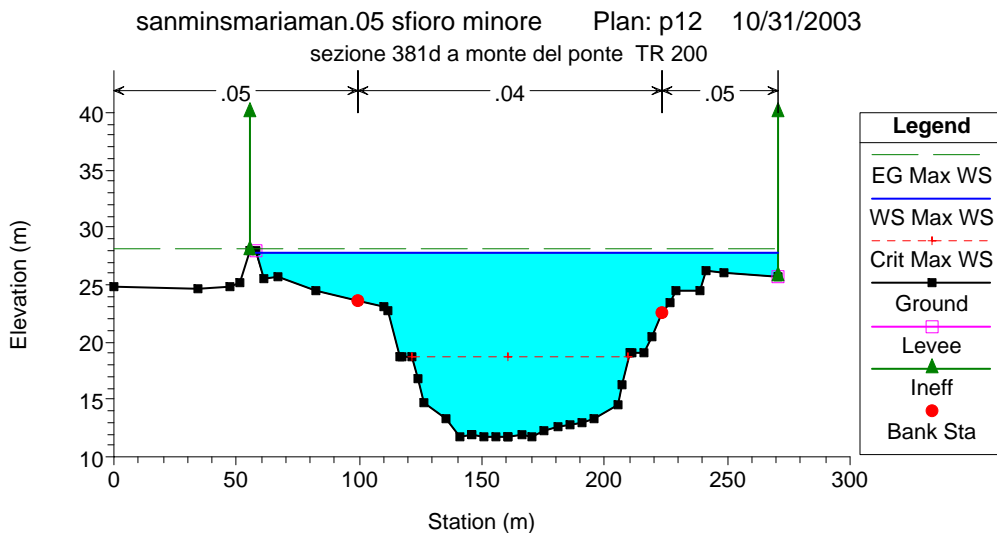
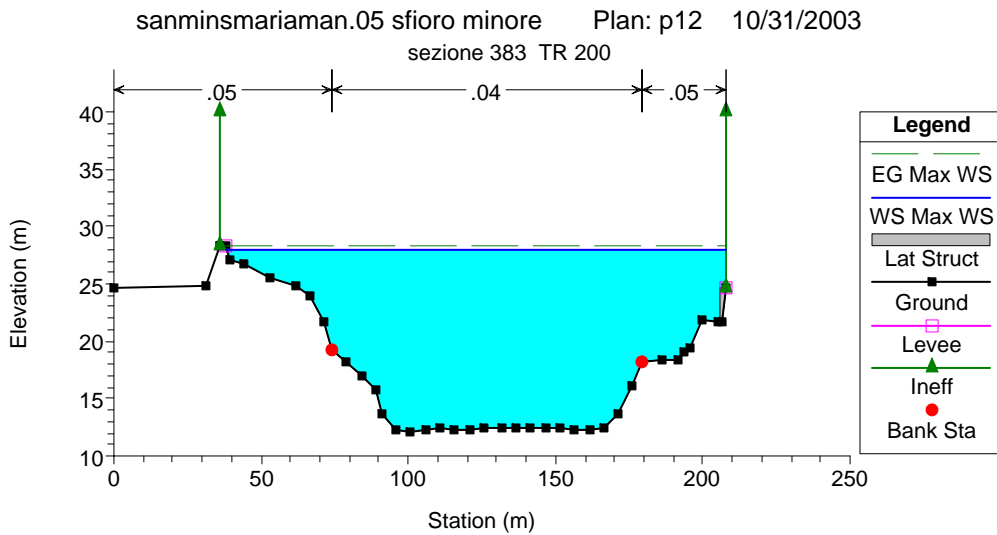
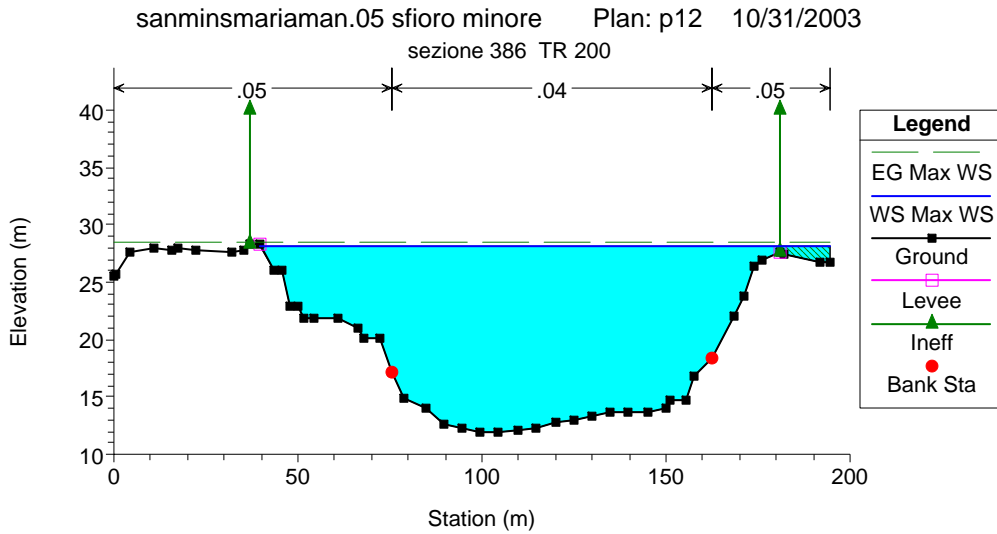


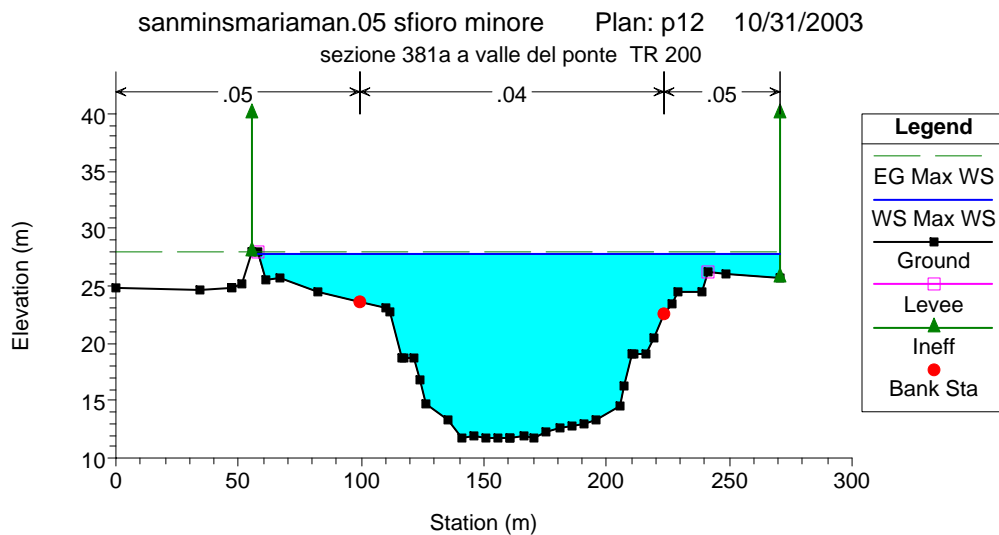
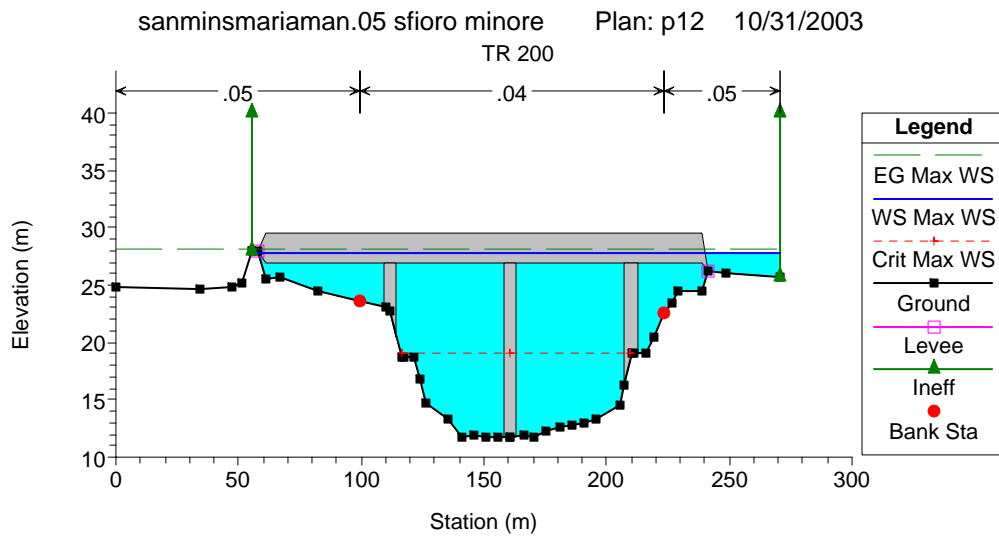
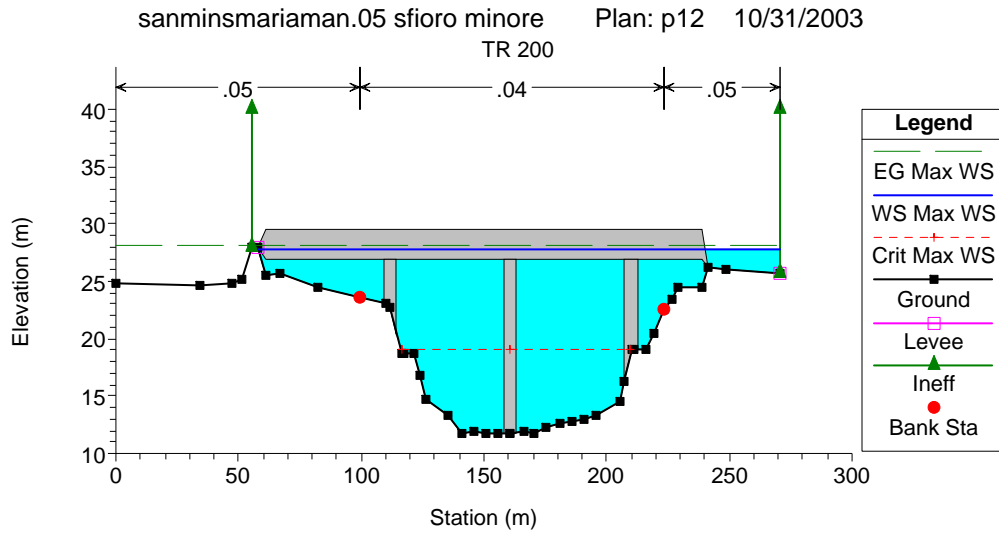


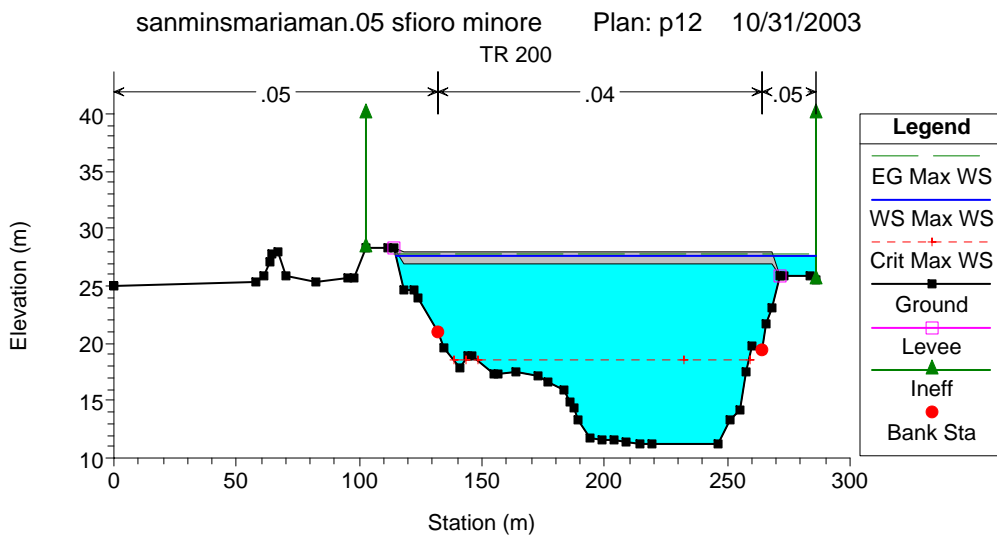
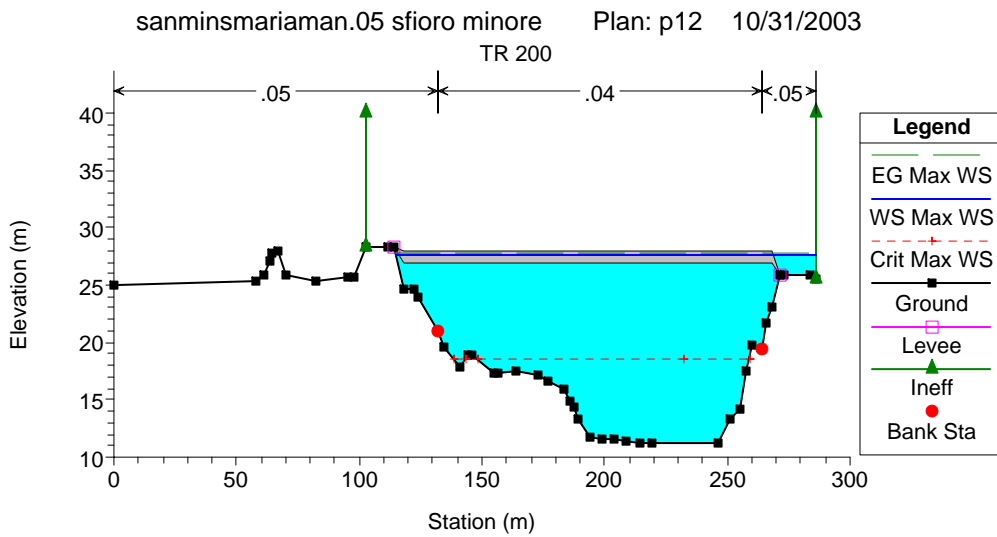
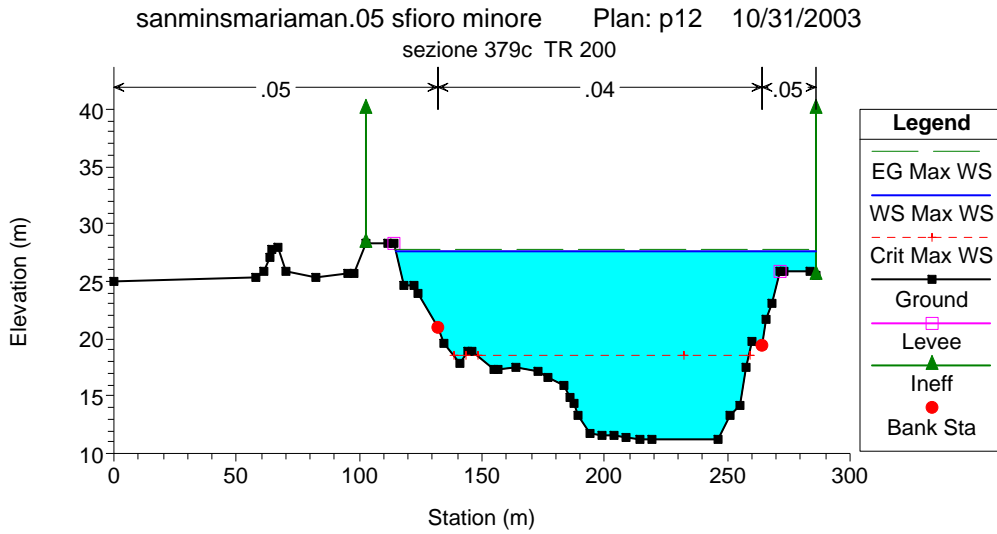


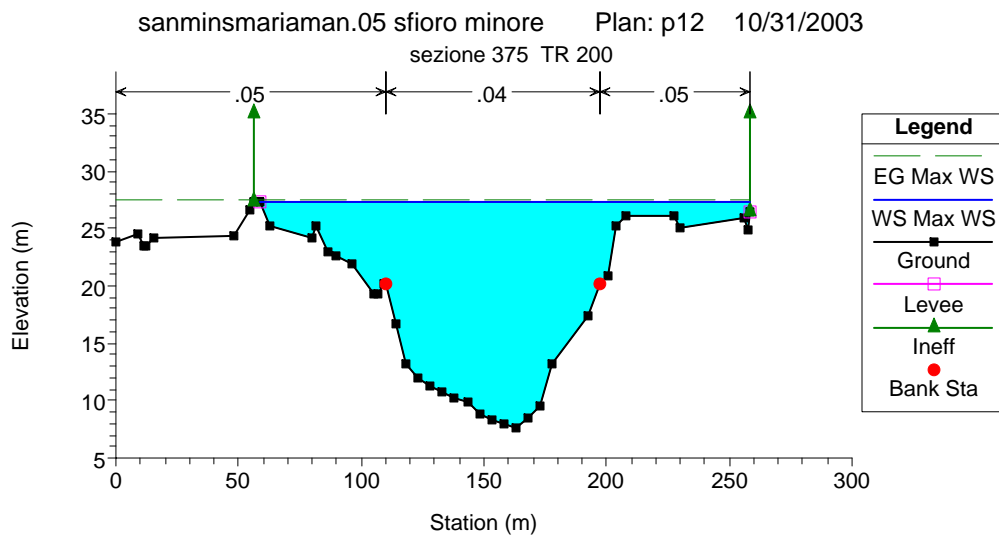
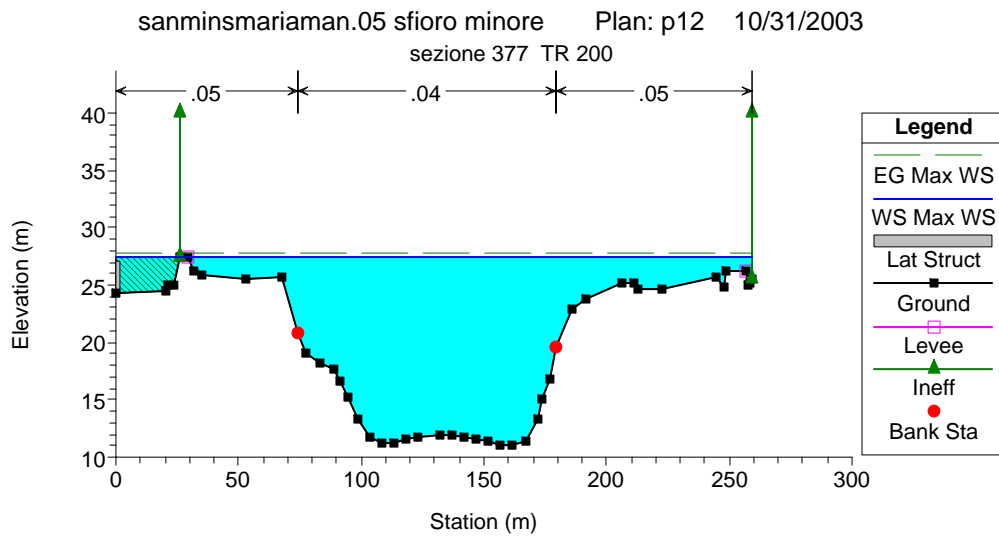
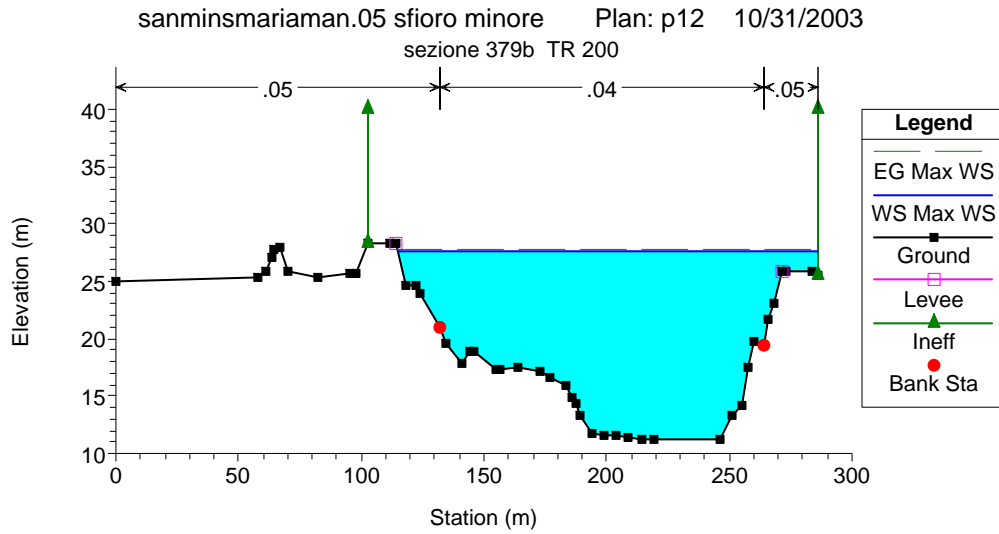




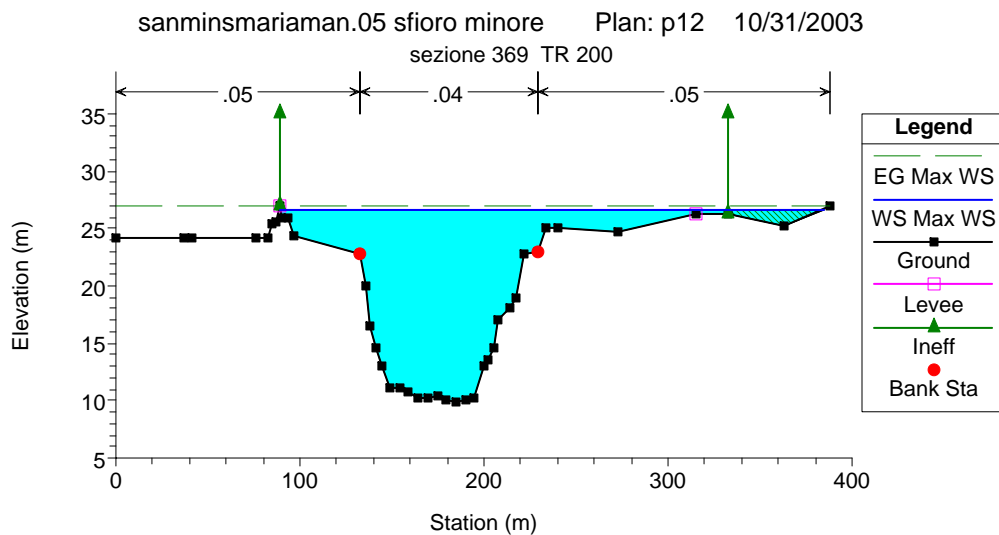
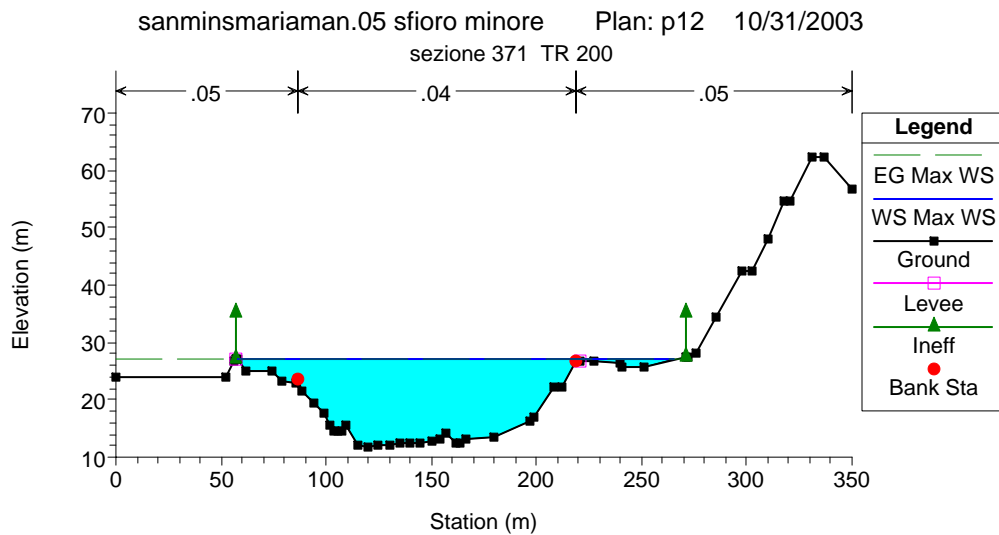
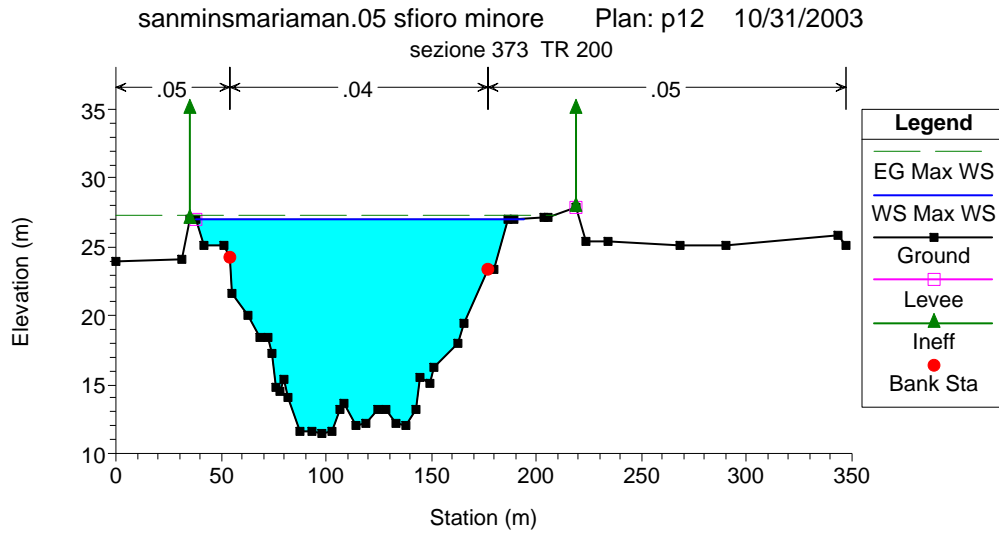






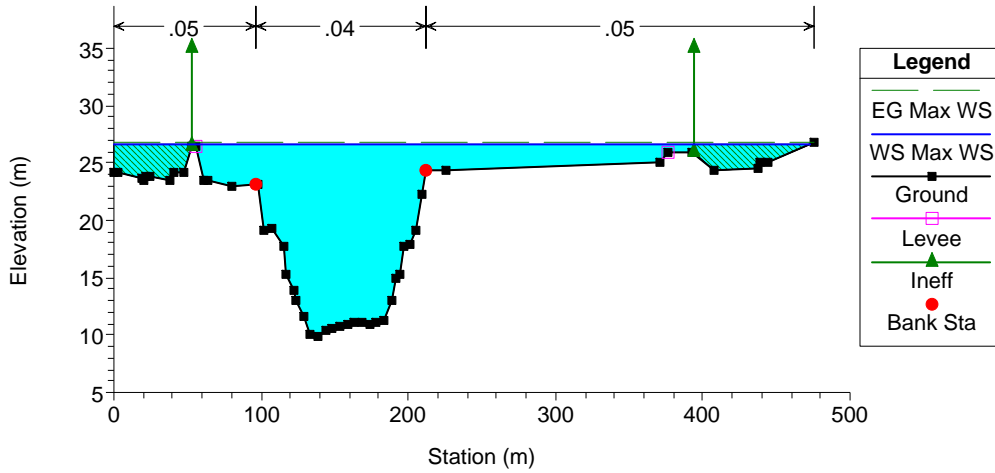




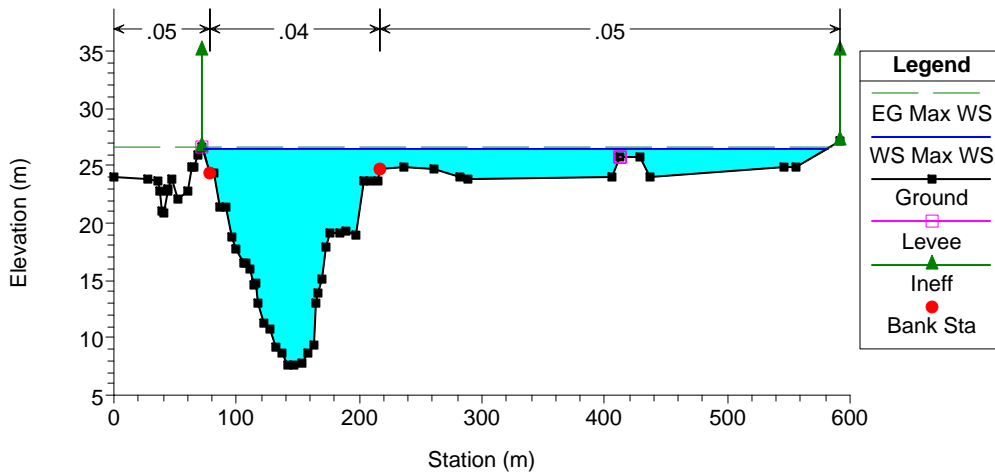




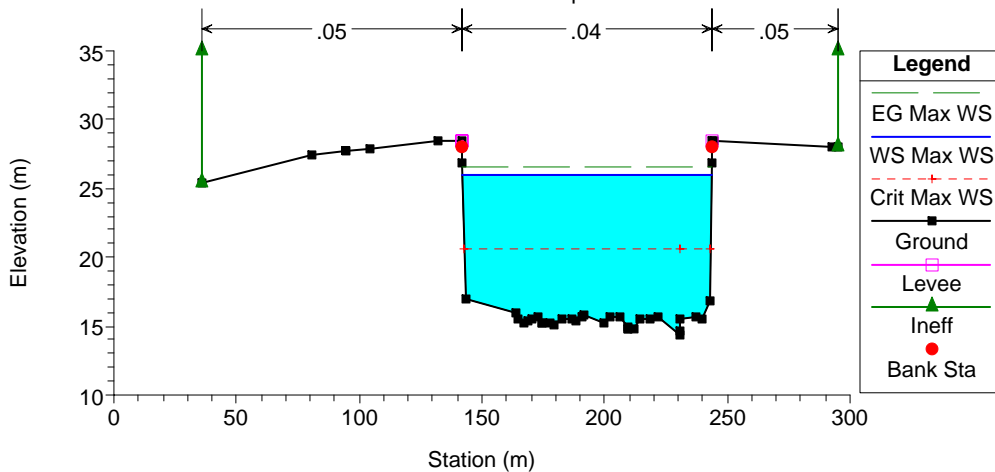
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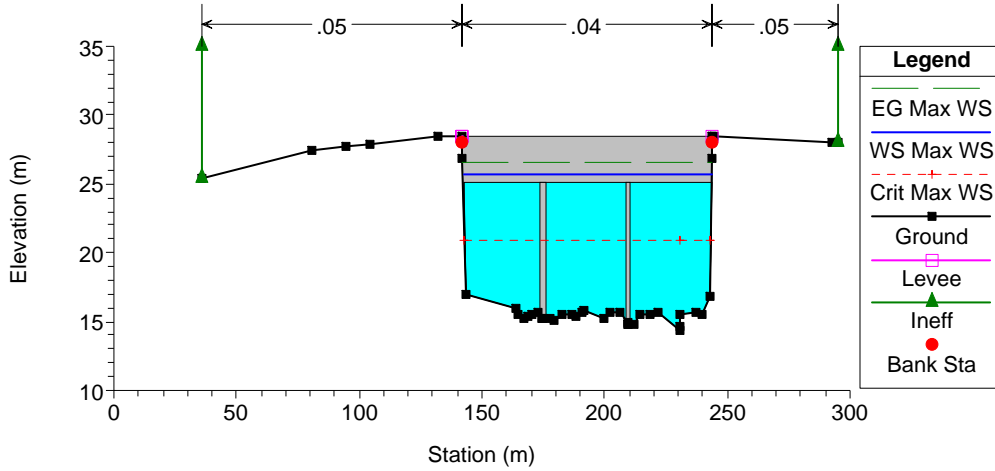


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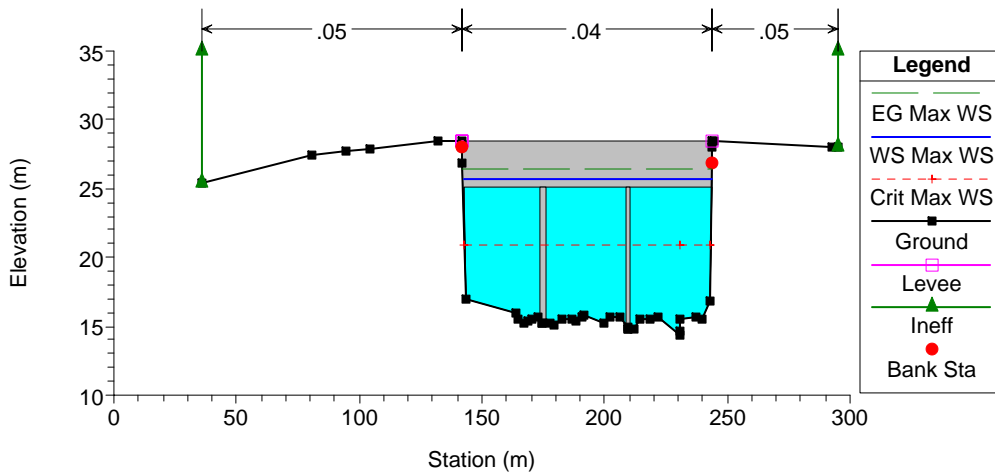




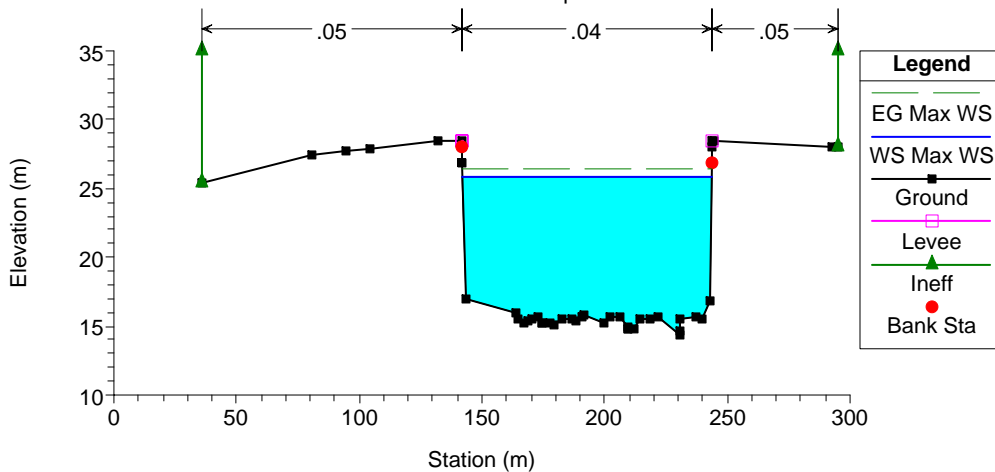
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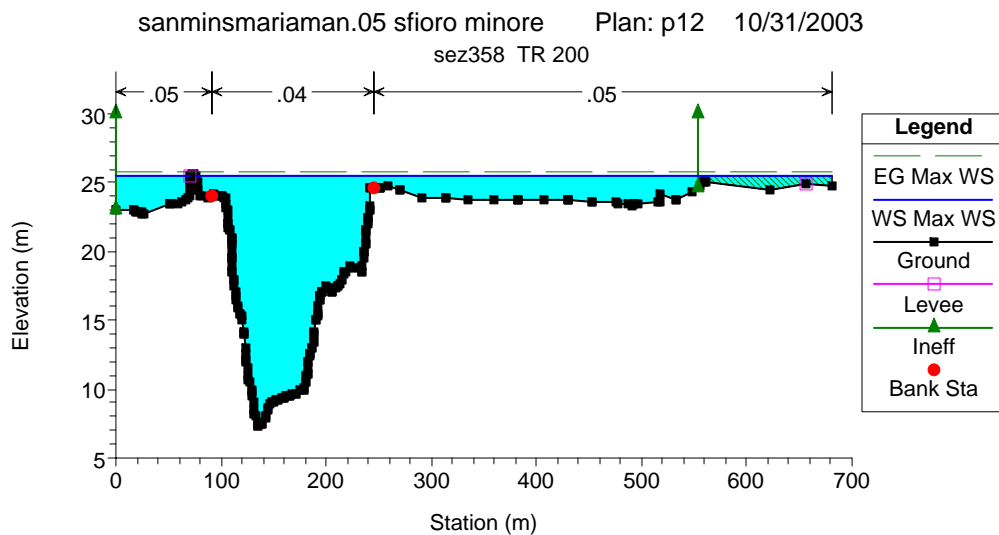
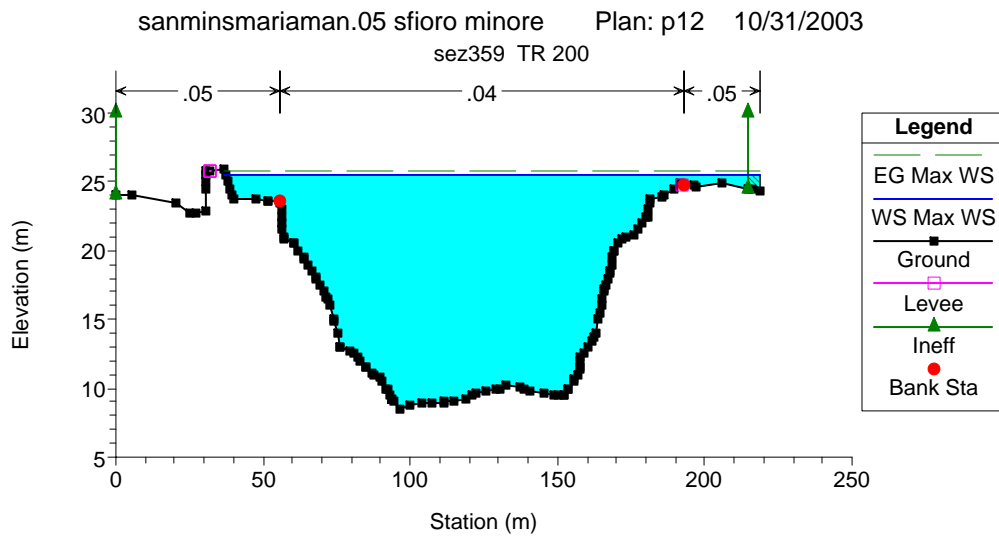
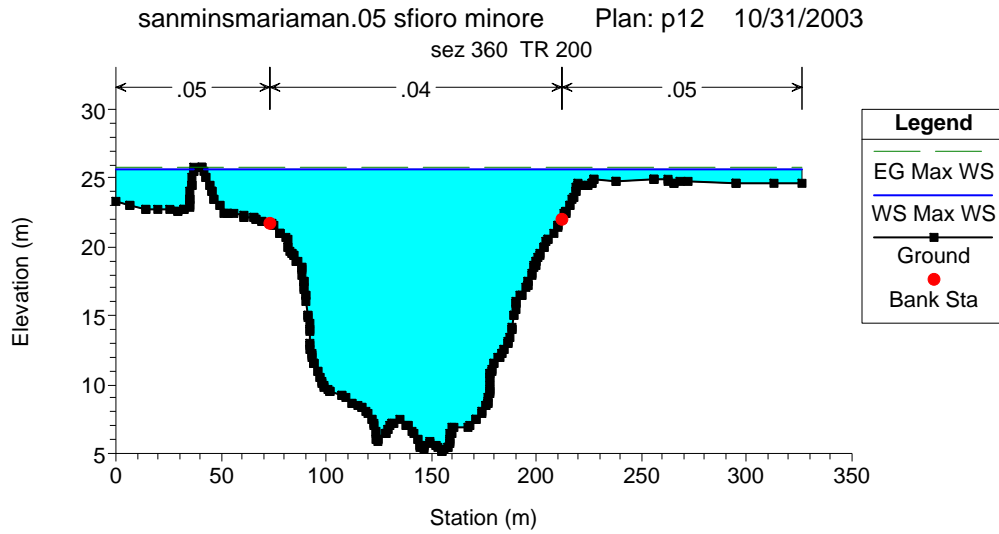


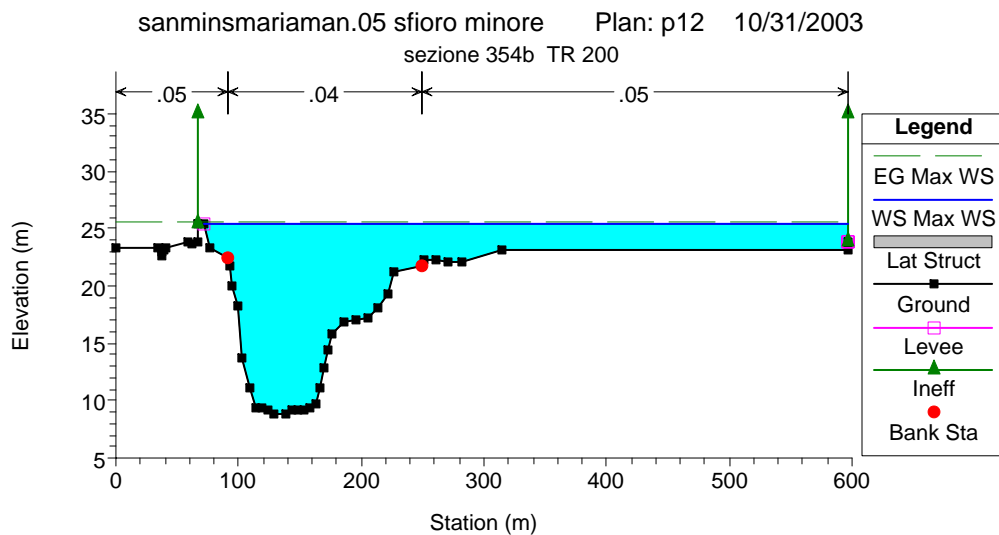
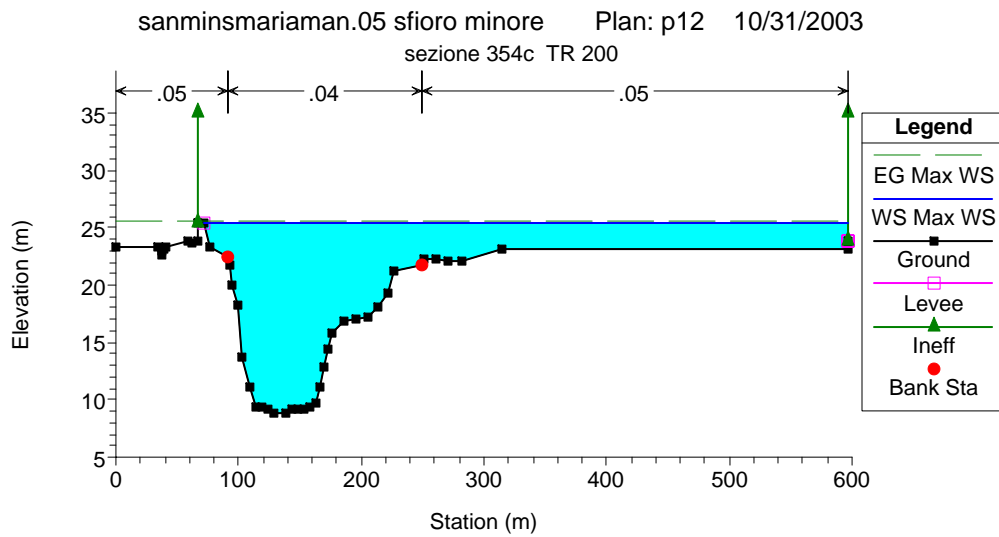
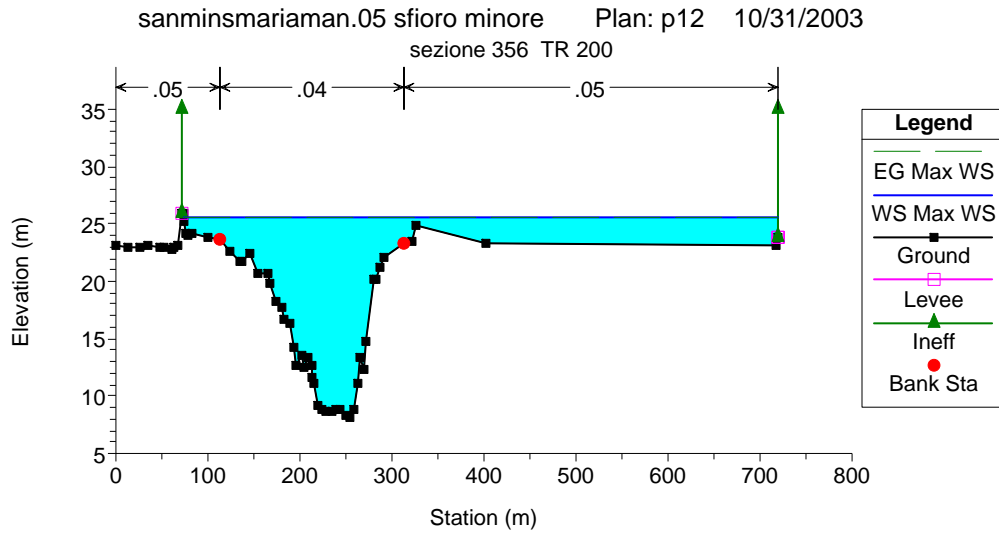
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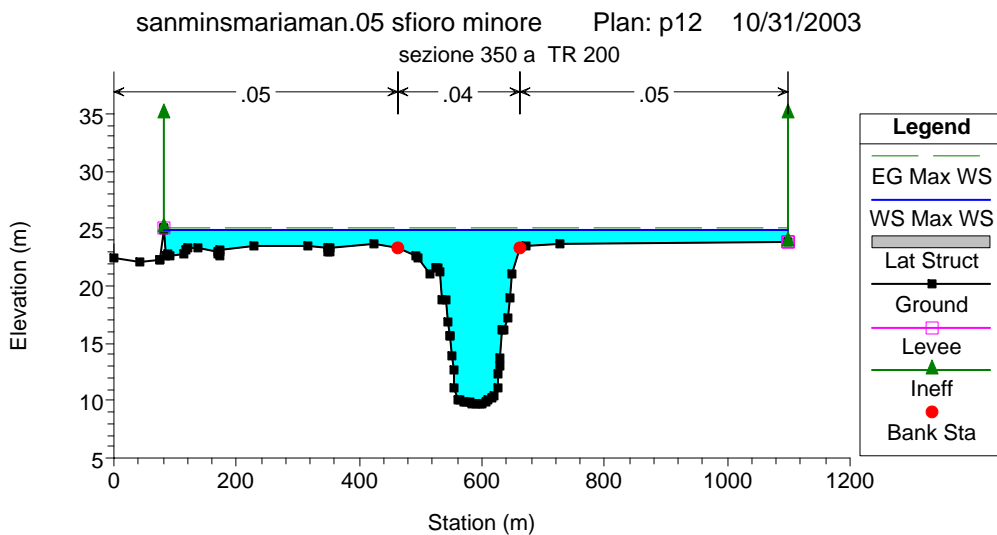
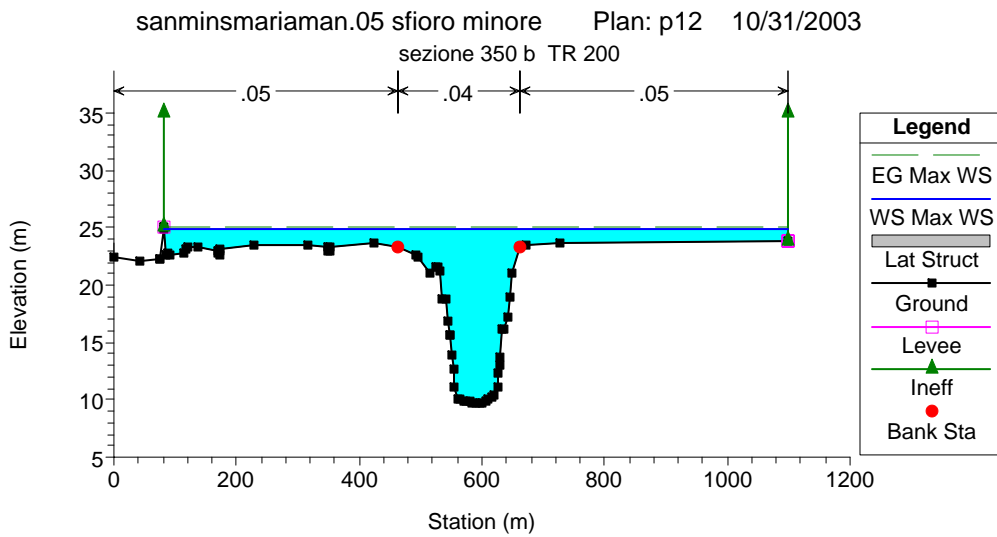
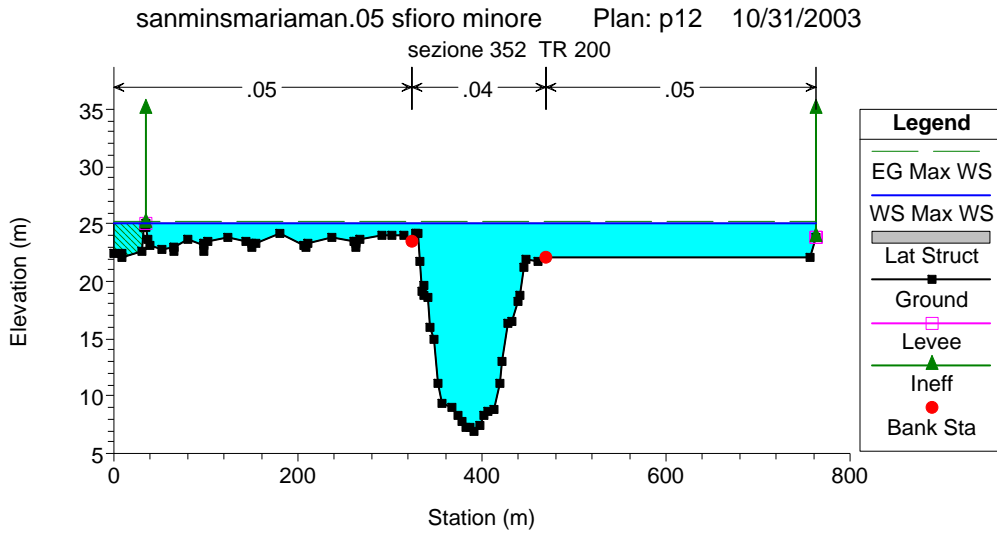


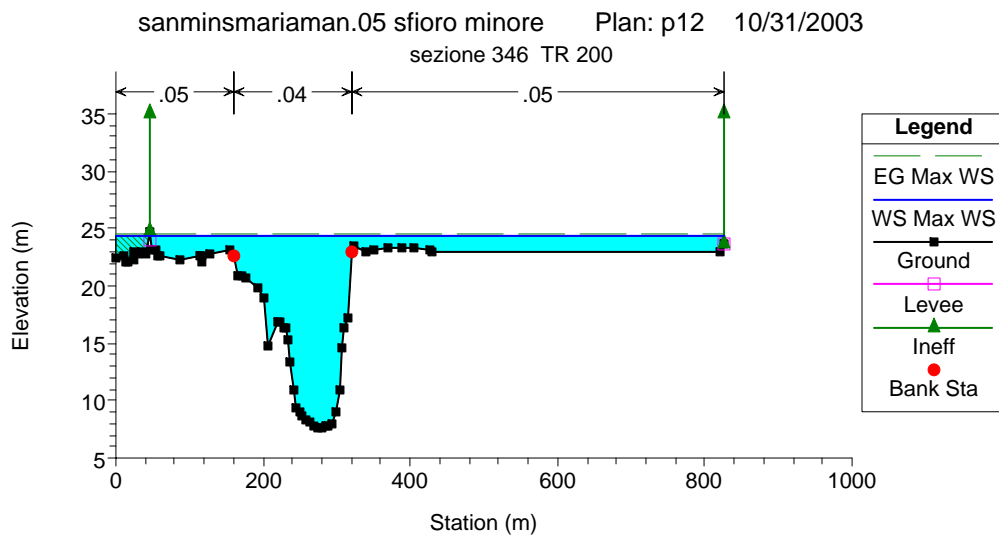
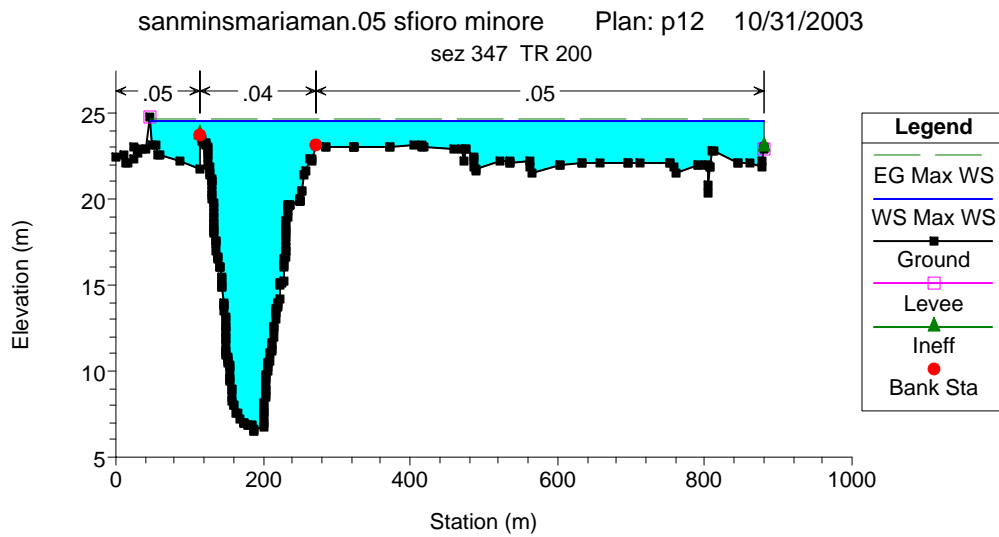
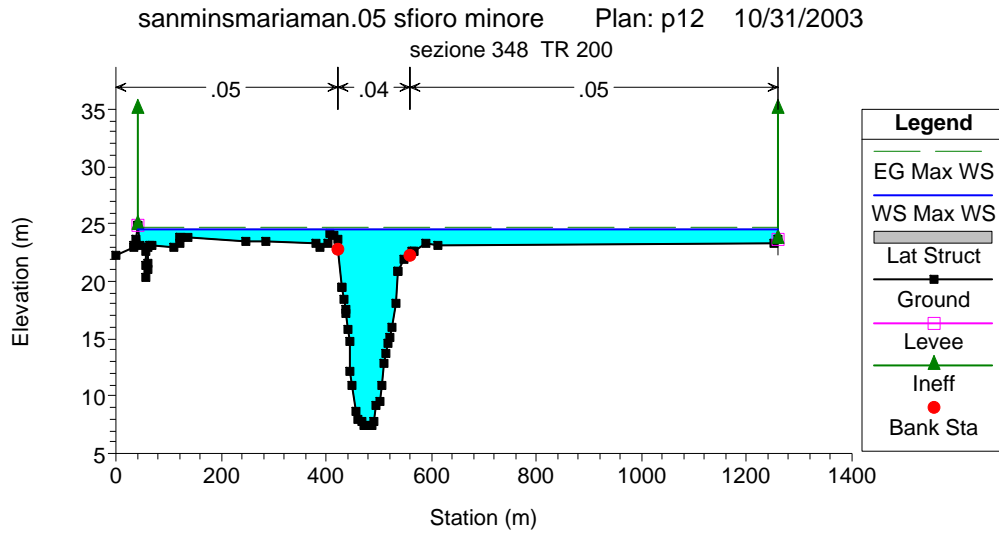
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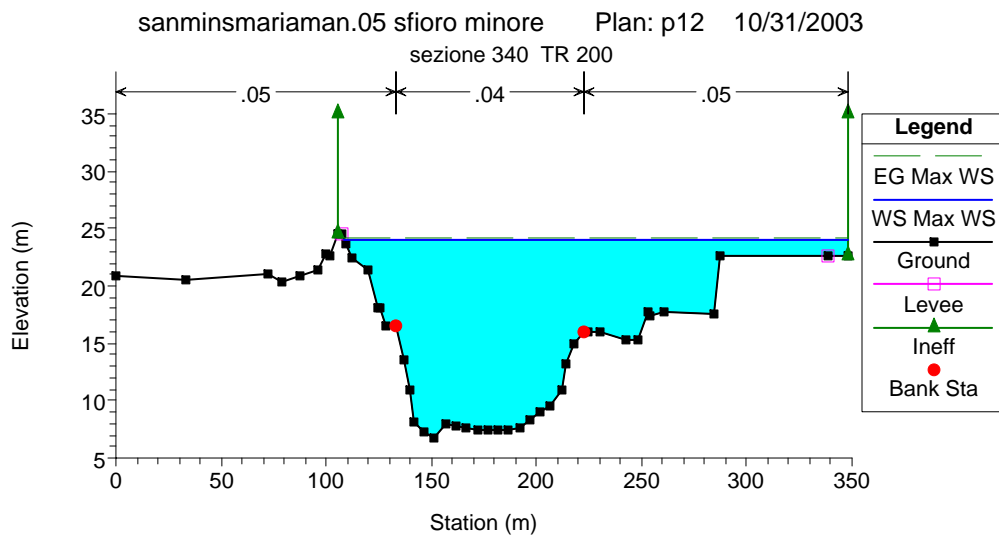
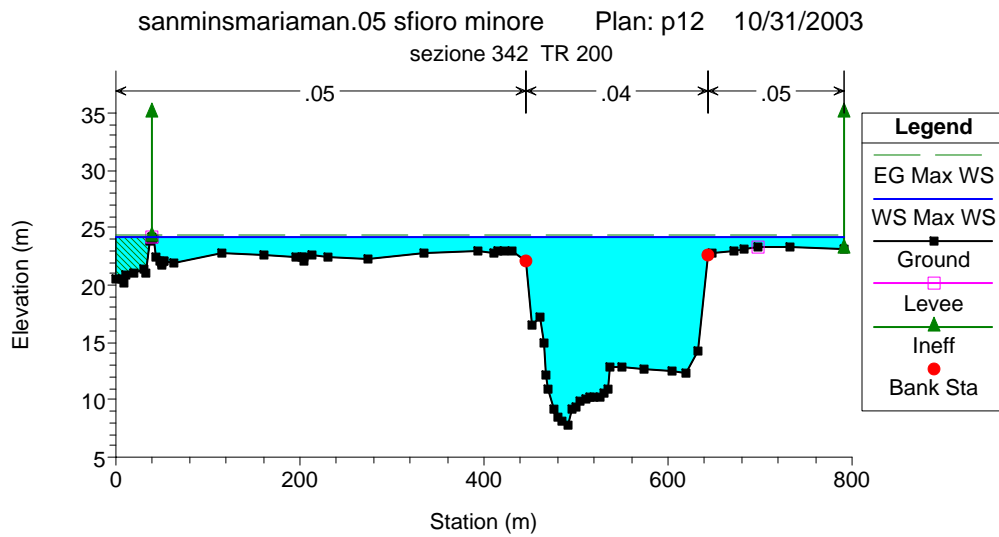
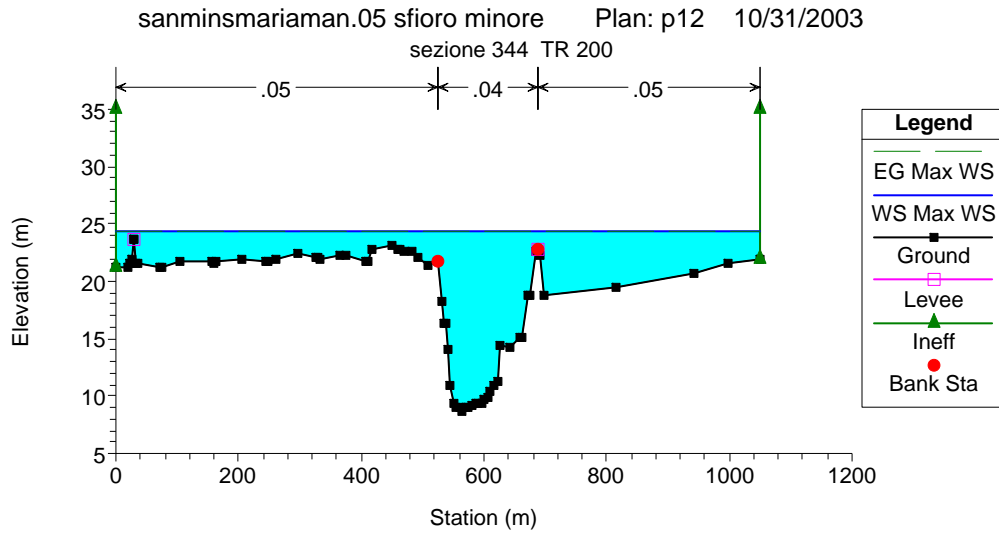








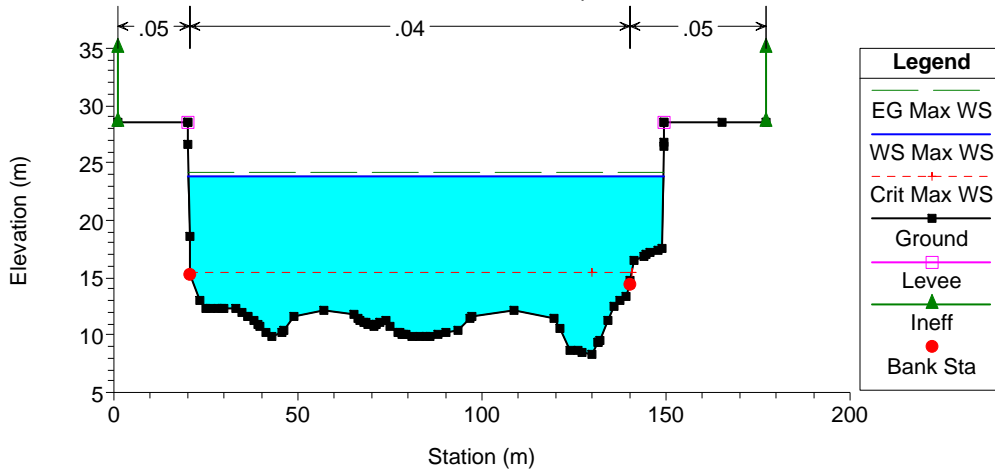




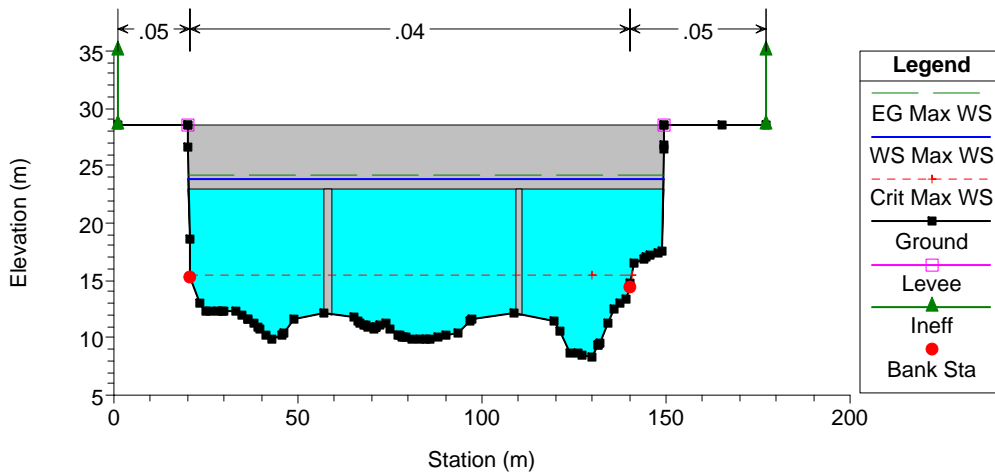




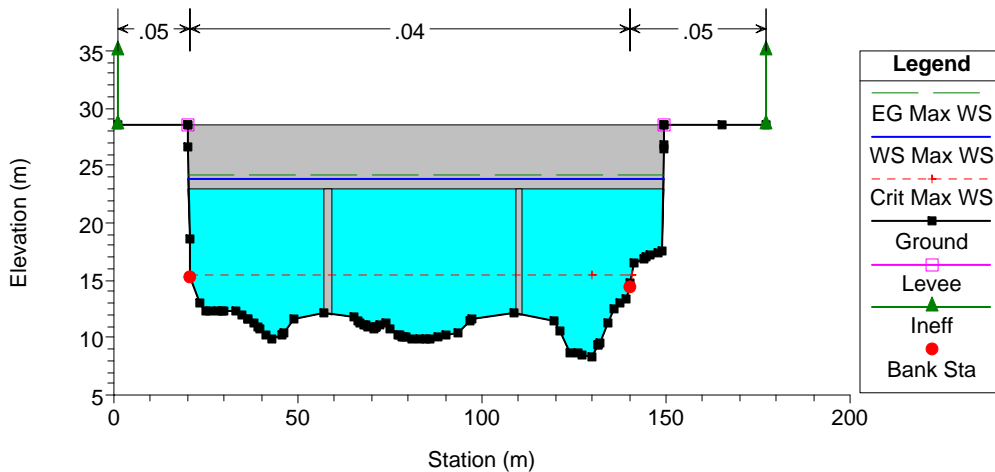
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 sezione 336 d a monte del ponte TR 200



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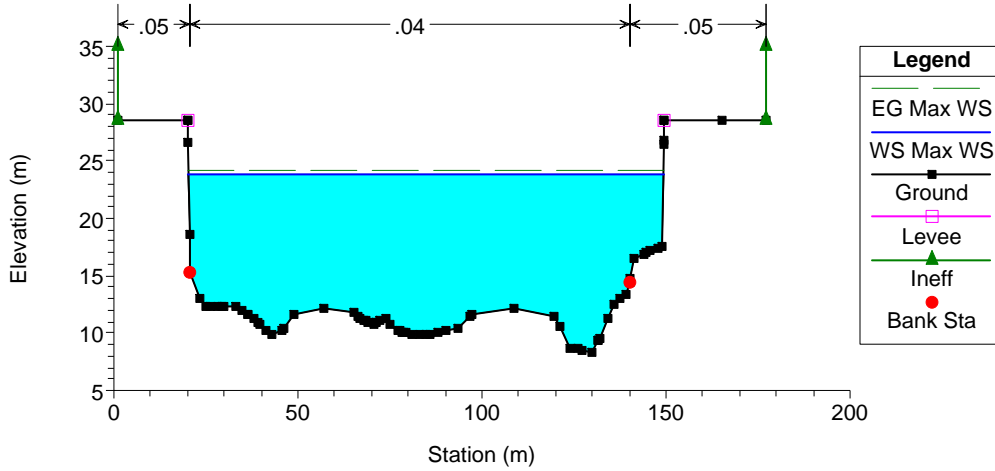


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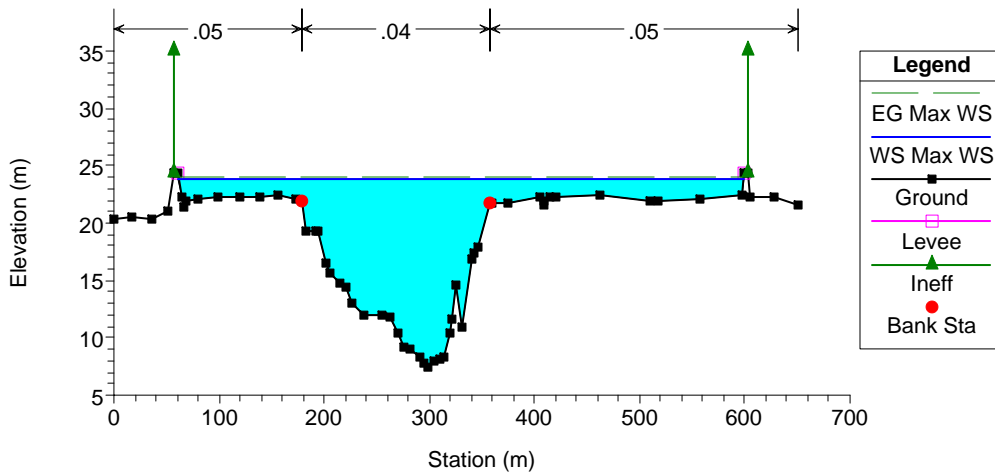




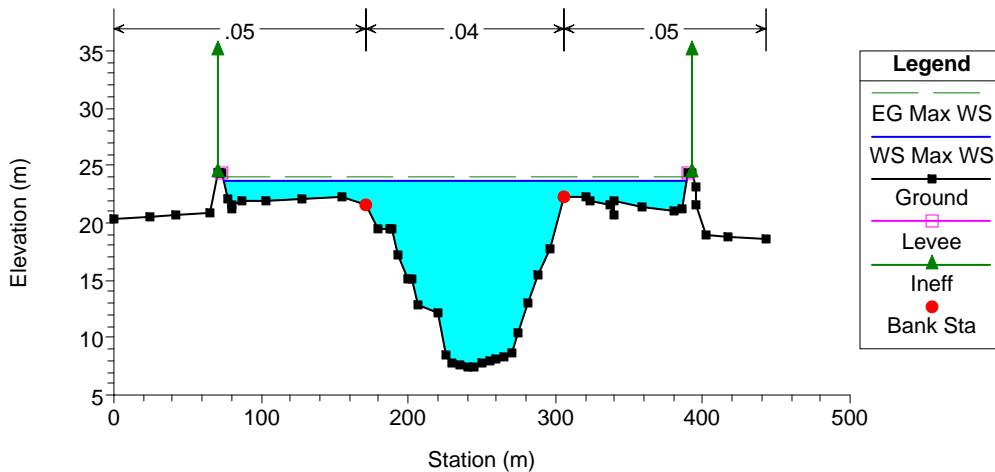
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 sezione 336 a a valle del ponte TR 200

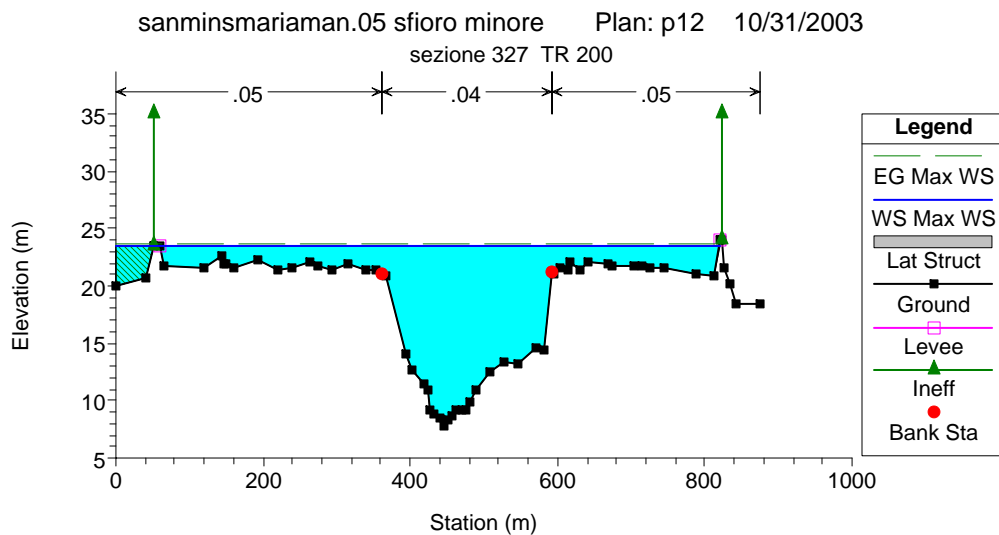
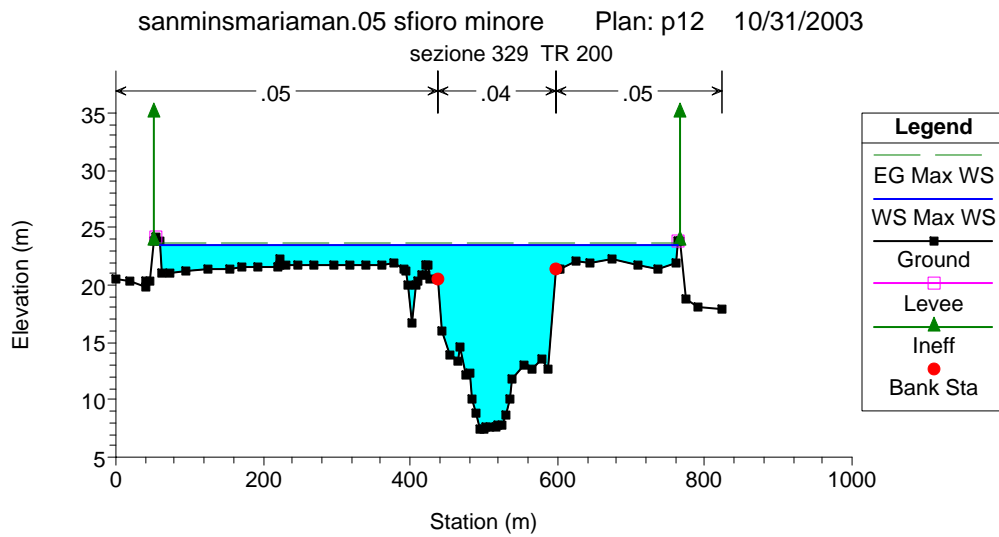
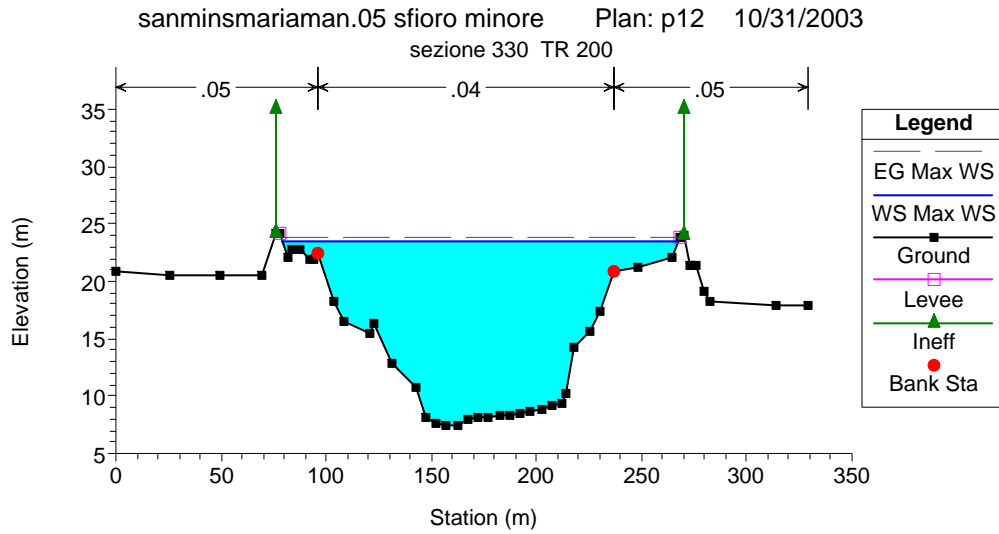


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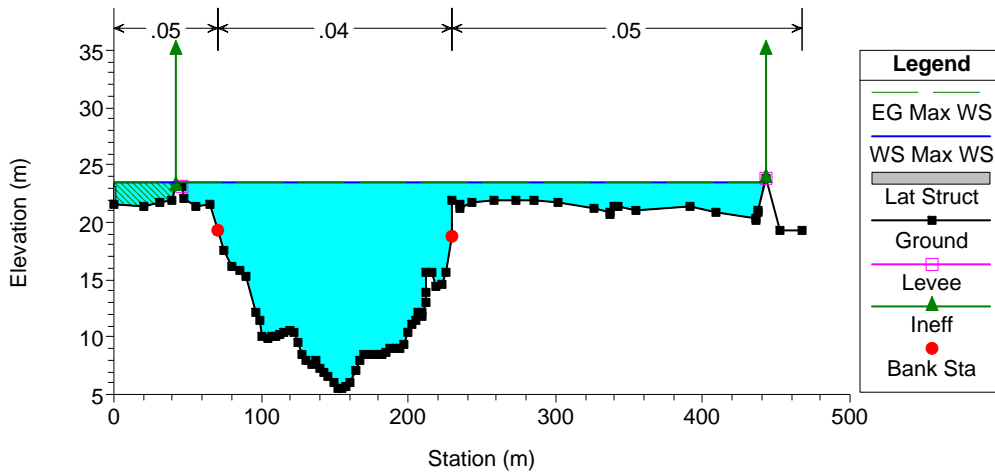
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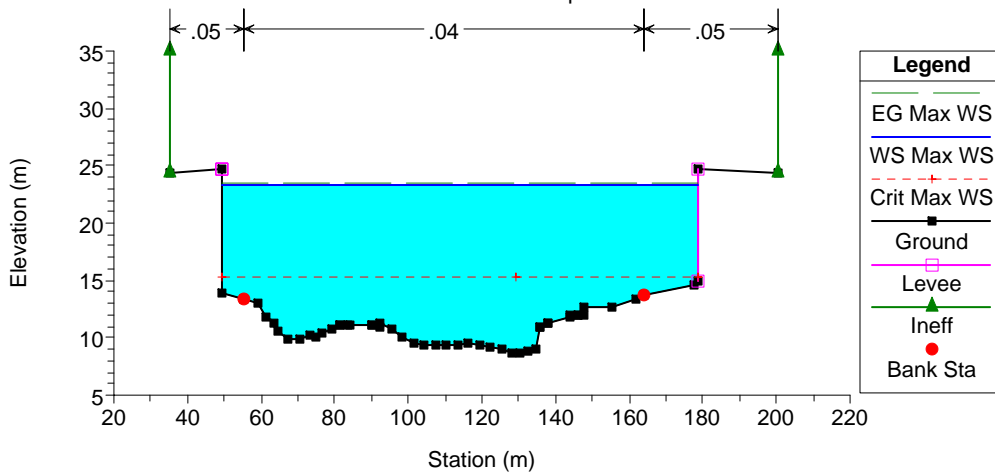




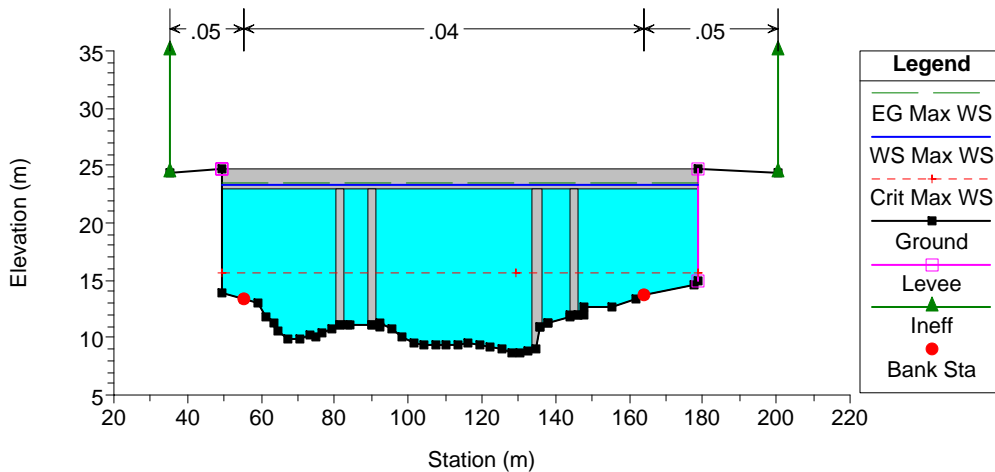
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 sezione 322d a monte del ponte TR 200

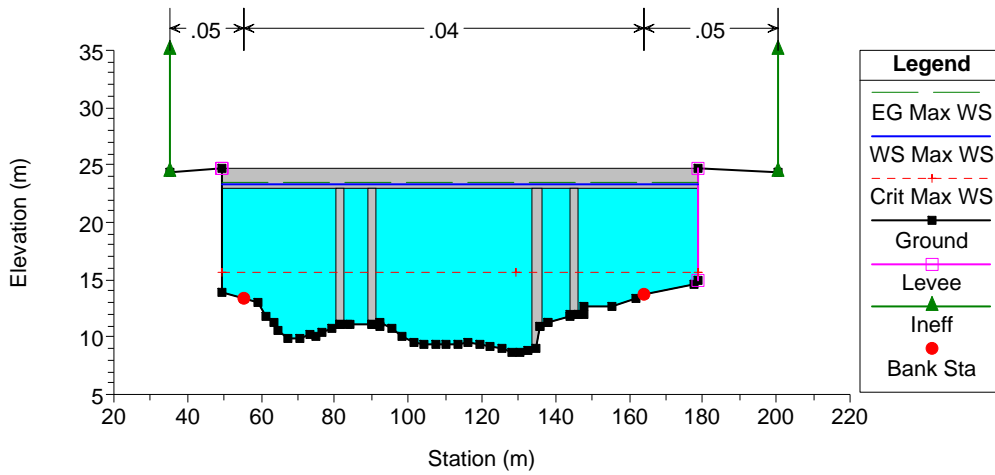


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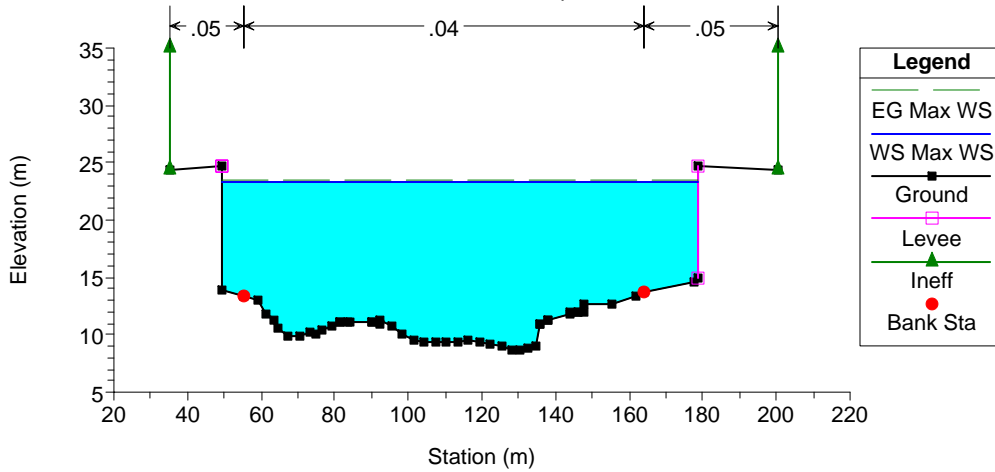




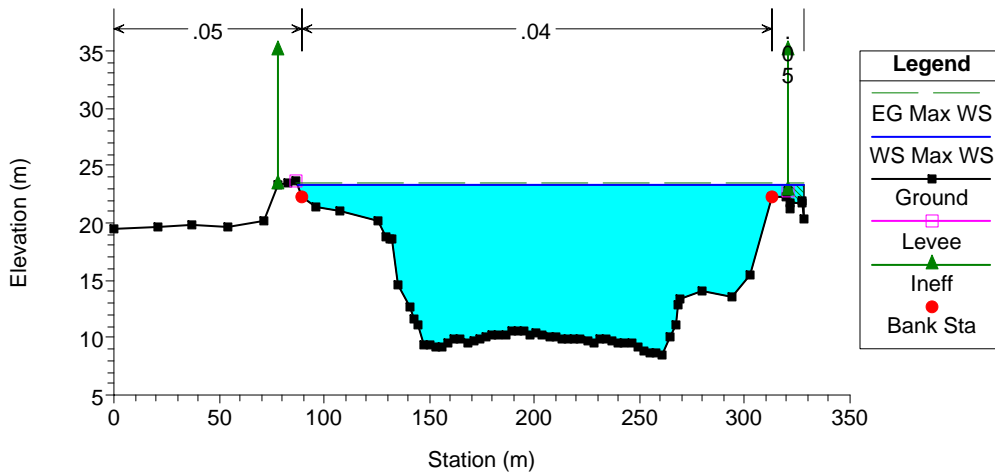
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 sezione 322a a valle del ponte TR 200

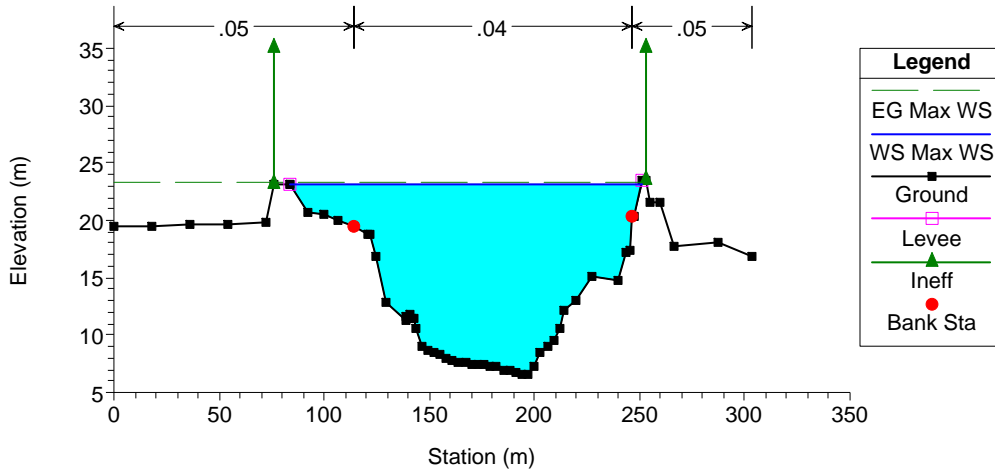


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 sezione 318 TR 200

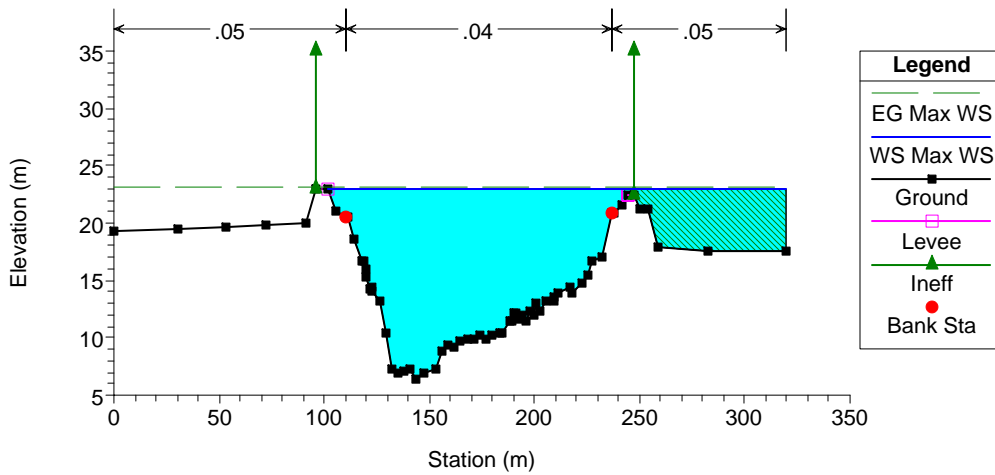




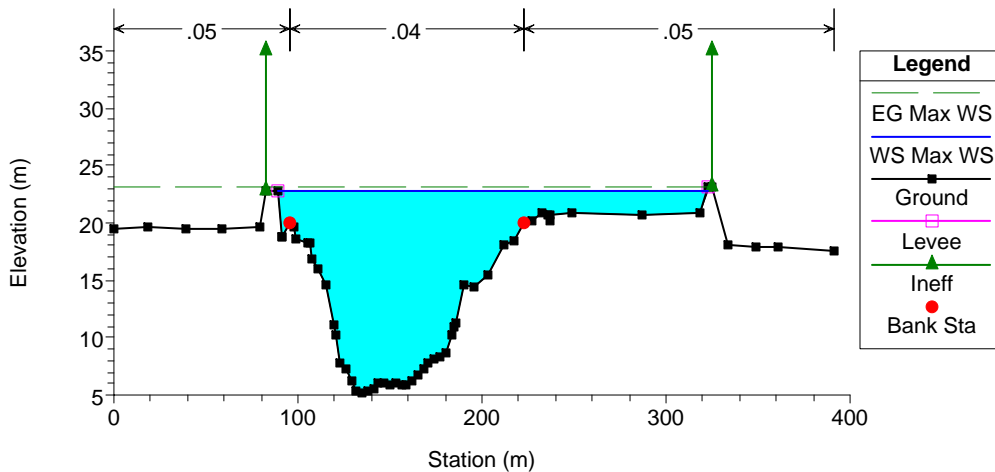
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 sezione 317 TR 200

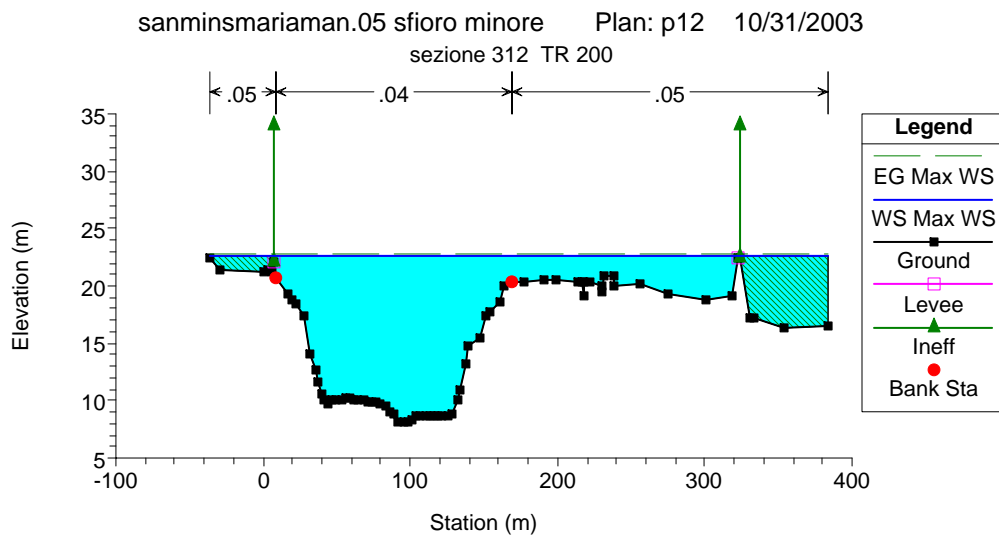
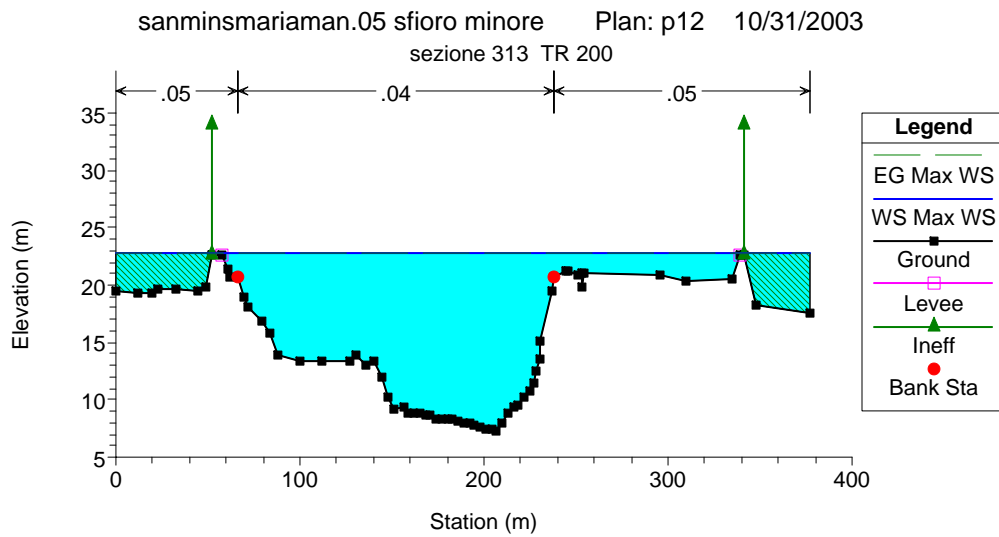
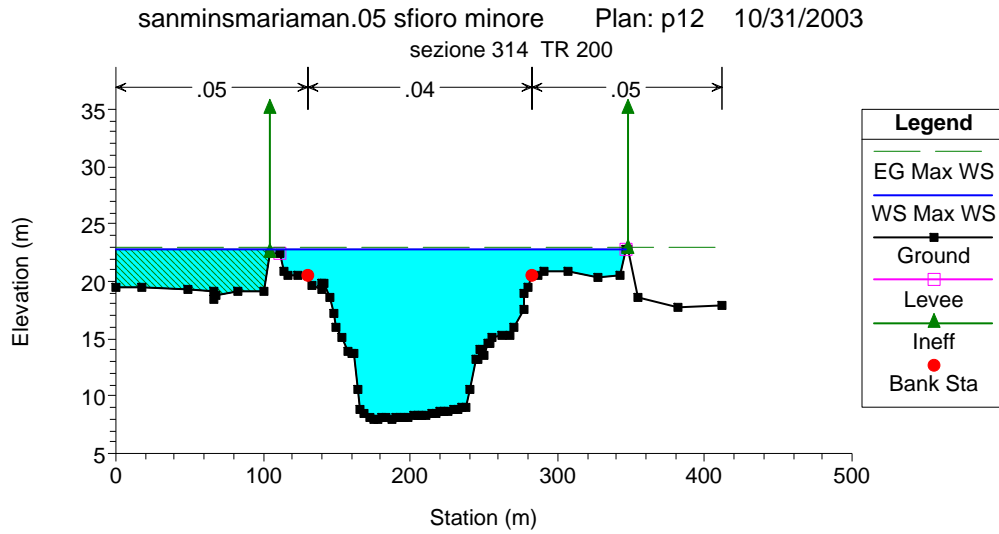


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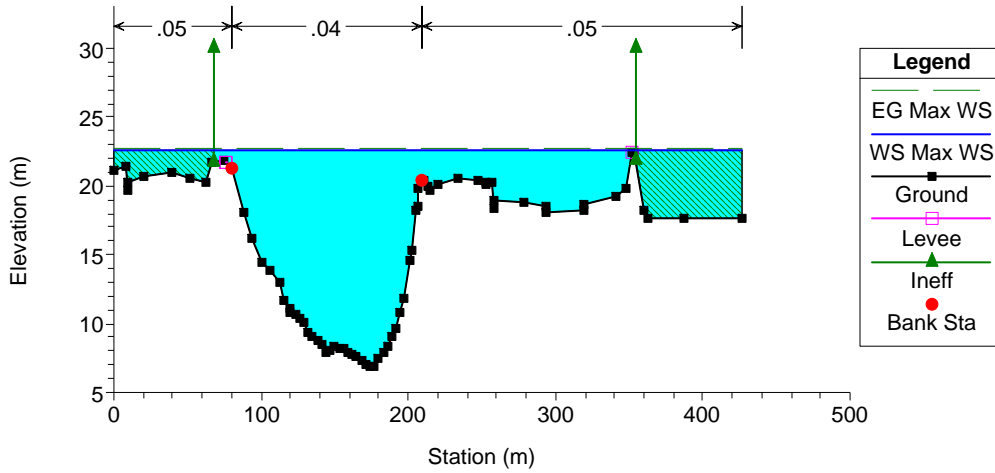
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 sezione 315 TR 200



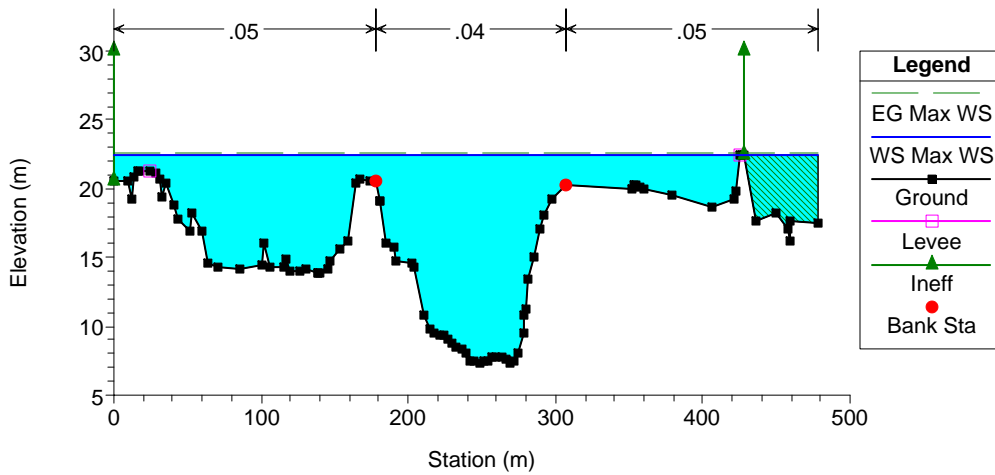




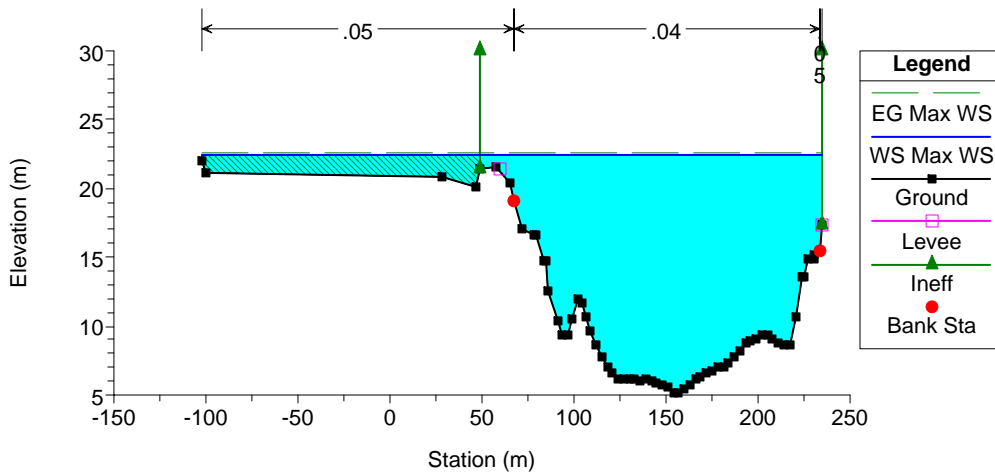
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sanminsmariamam.05 sfioro minore Plan: p12 10/31/2003  
 sezione 309 TR 200



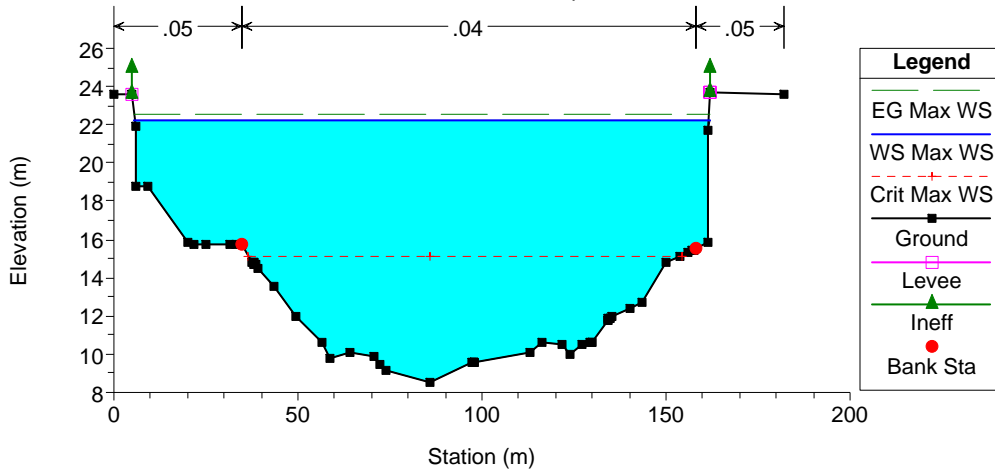
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 sezione 306 TR 200



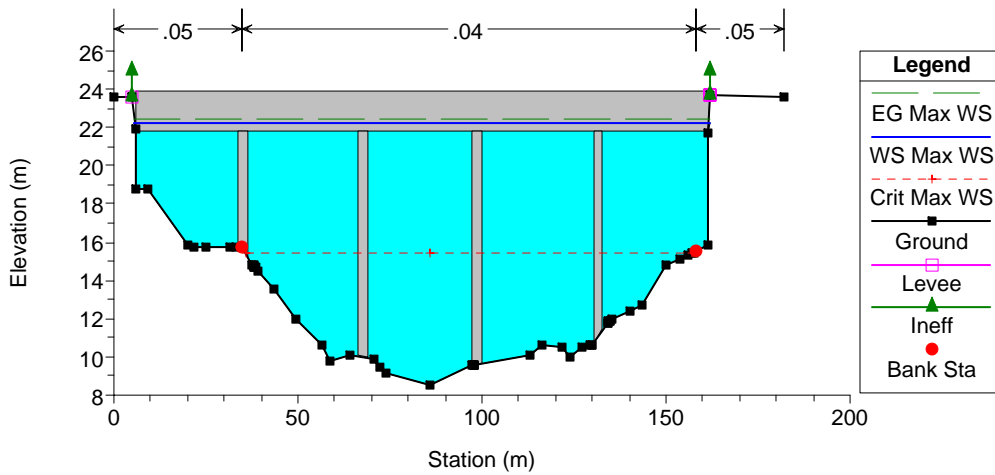




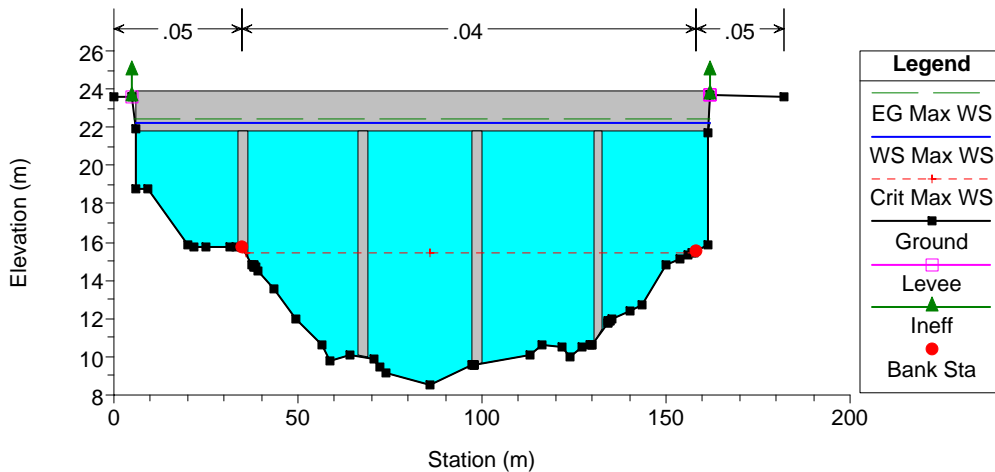
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 sezione 302 d a monte del ponte TR 200



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 TR 200

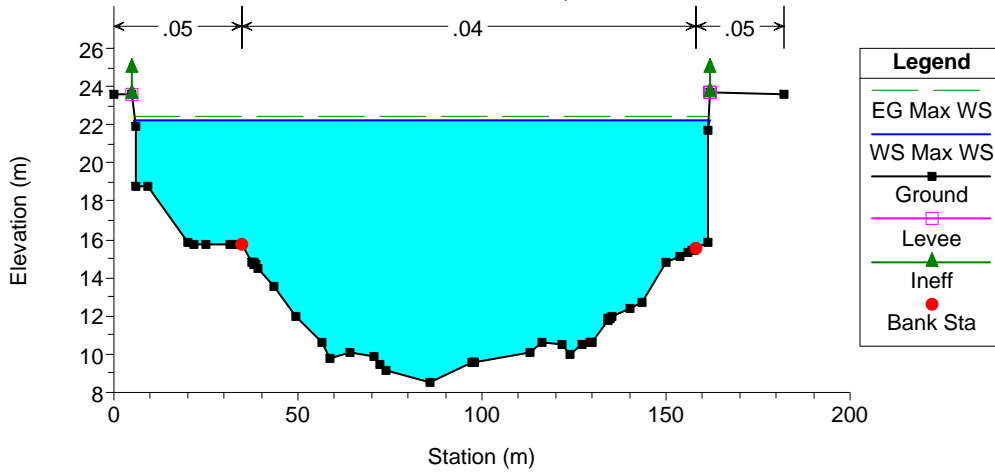


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 TR 200

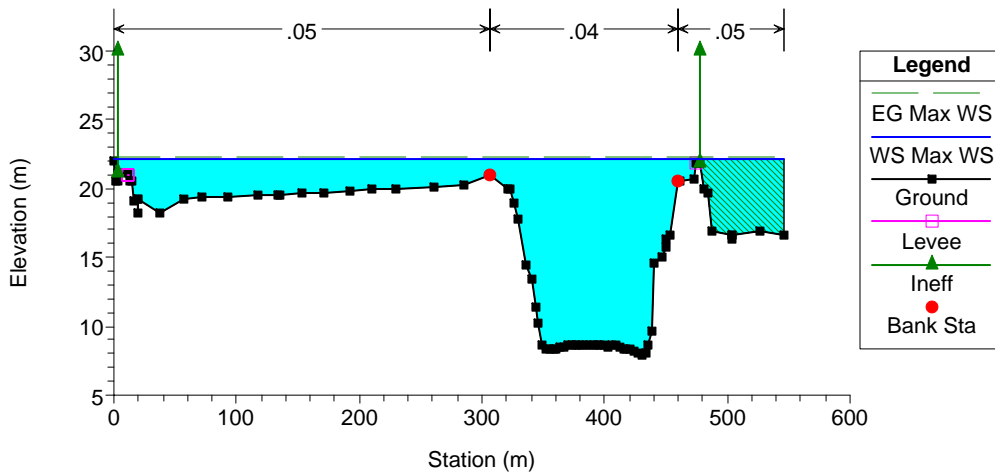




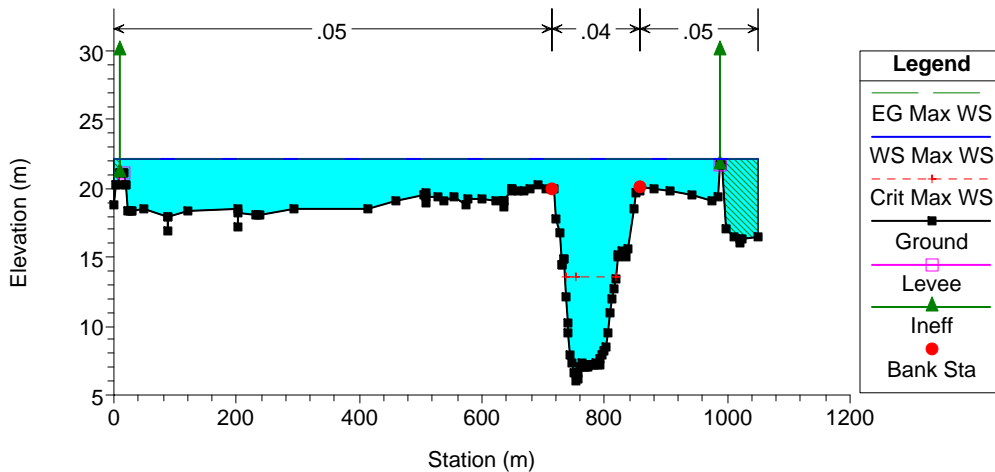
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 sezione 302 a valle del ponte TR 200

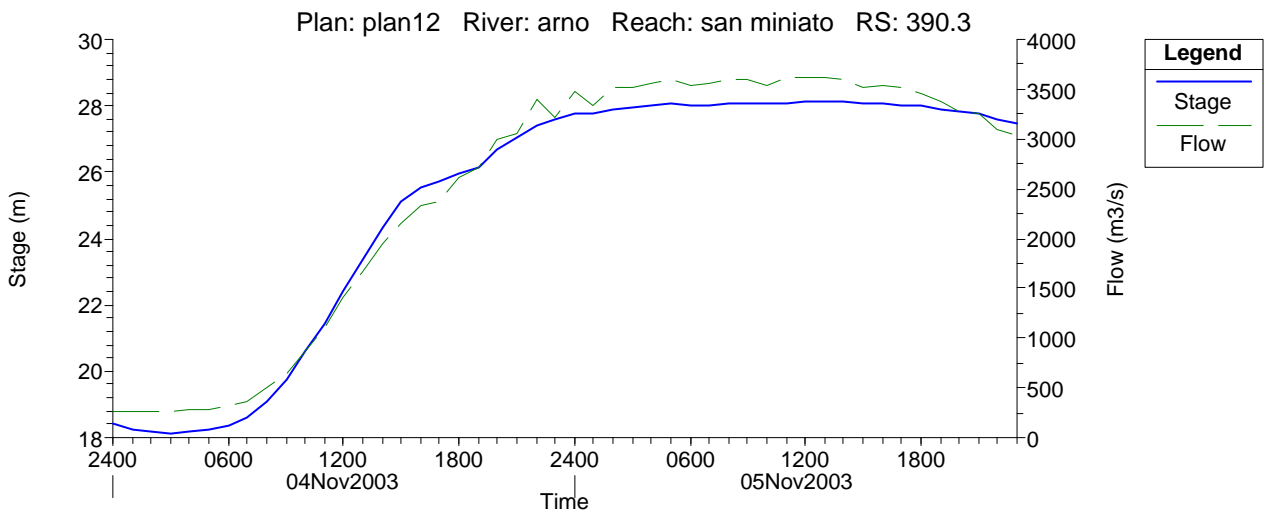
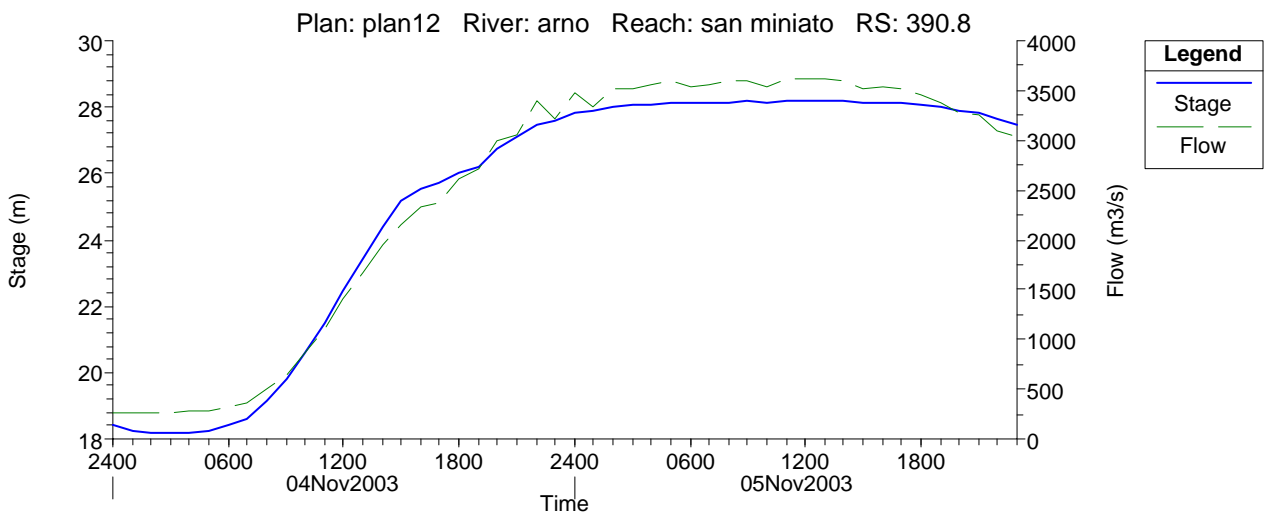
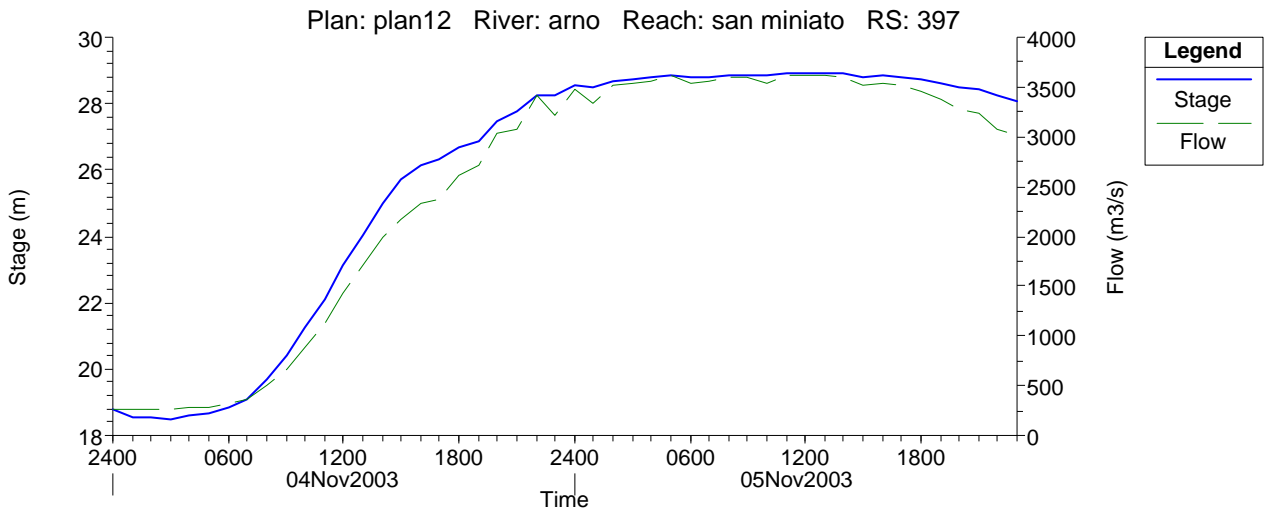


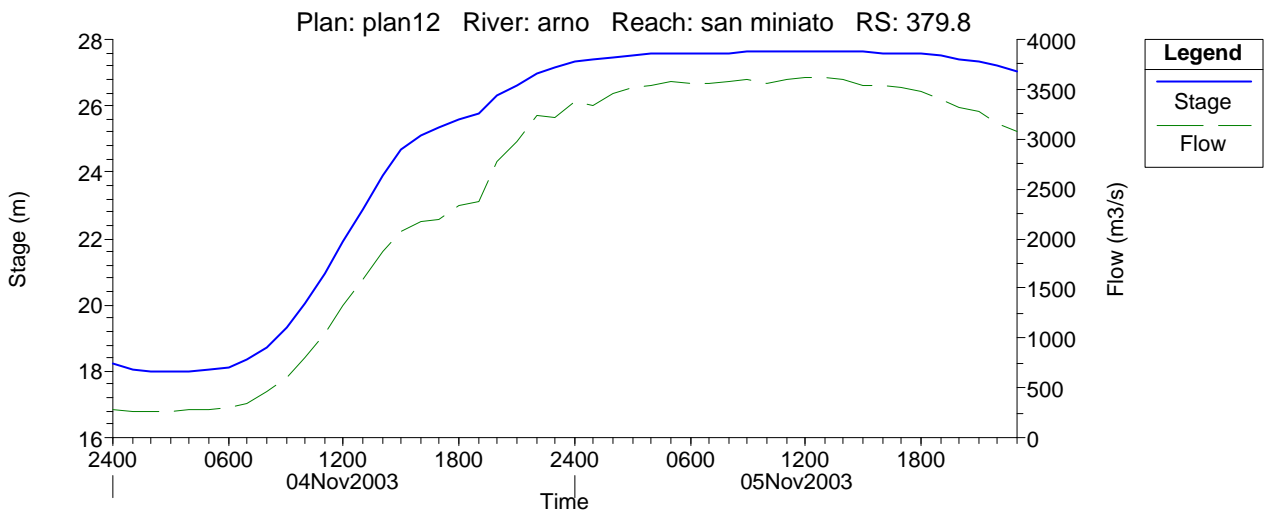
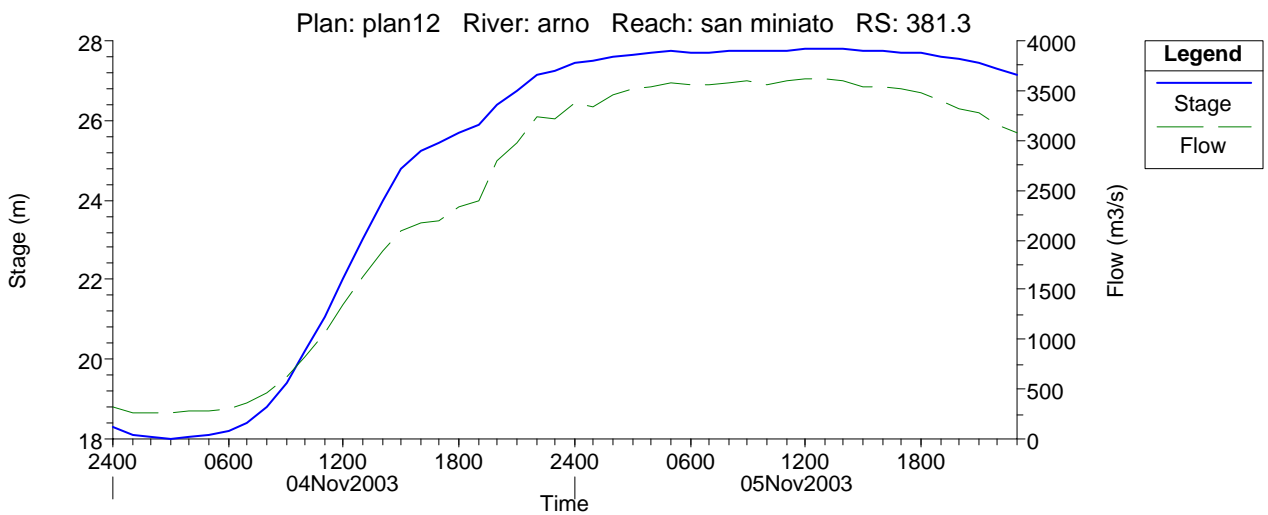
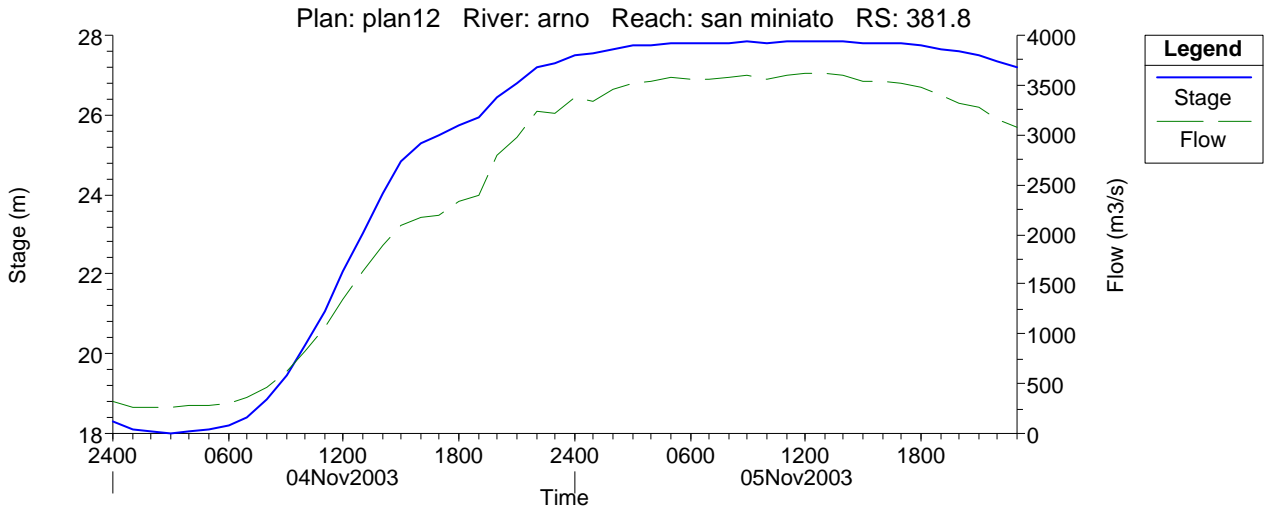
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 sezione 298 TR 200

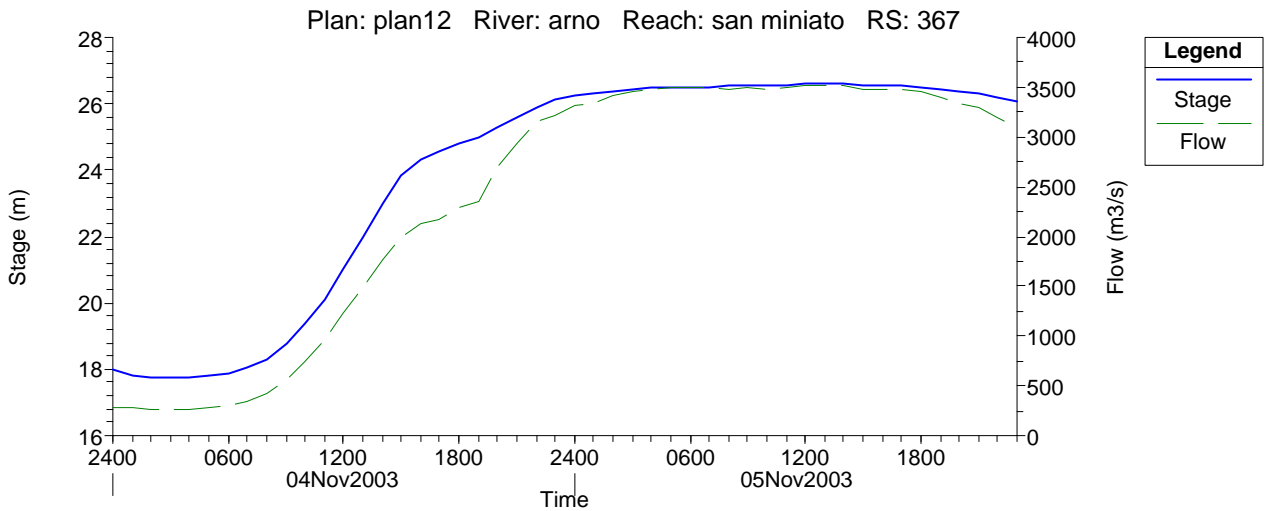
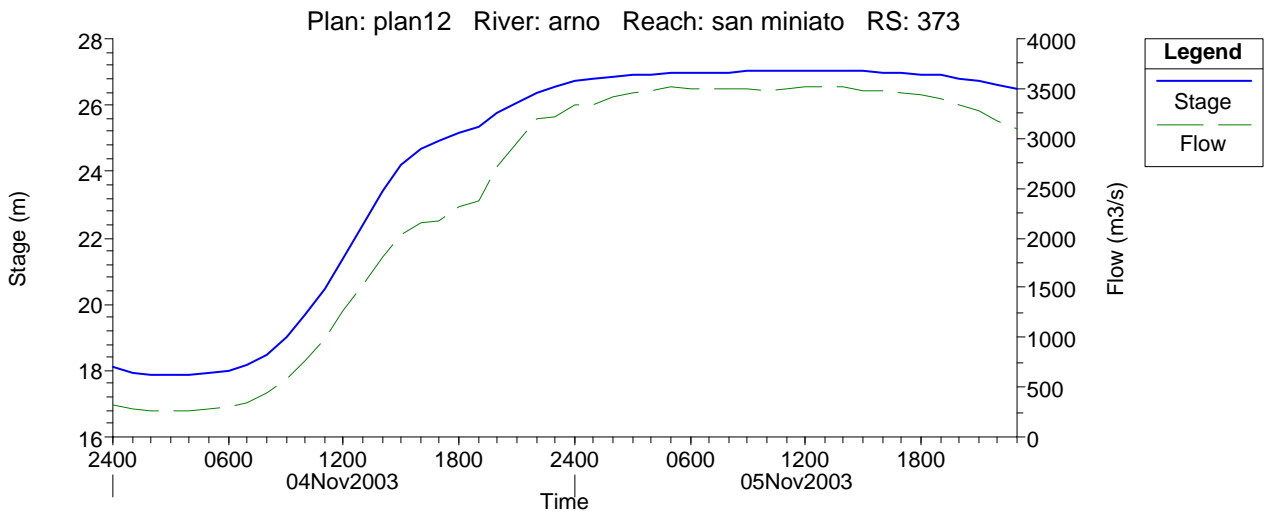
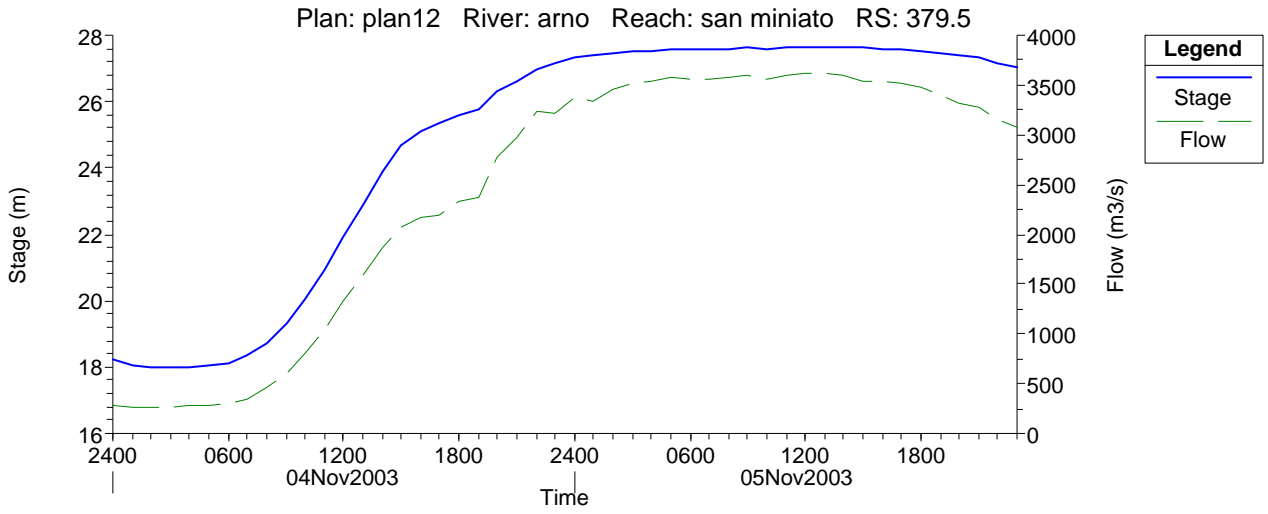


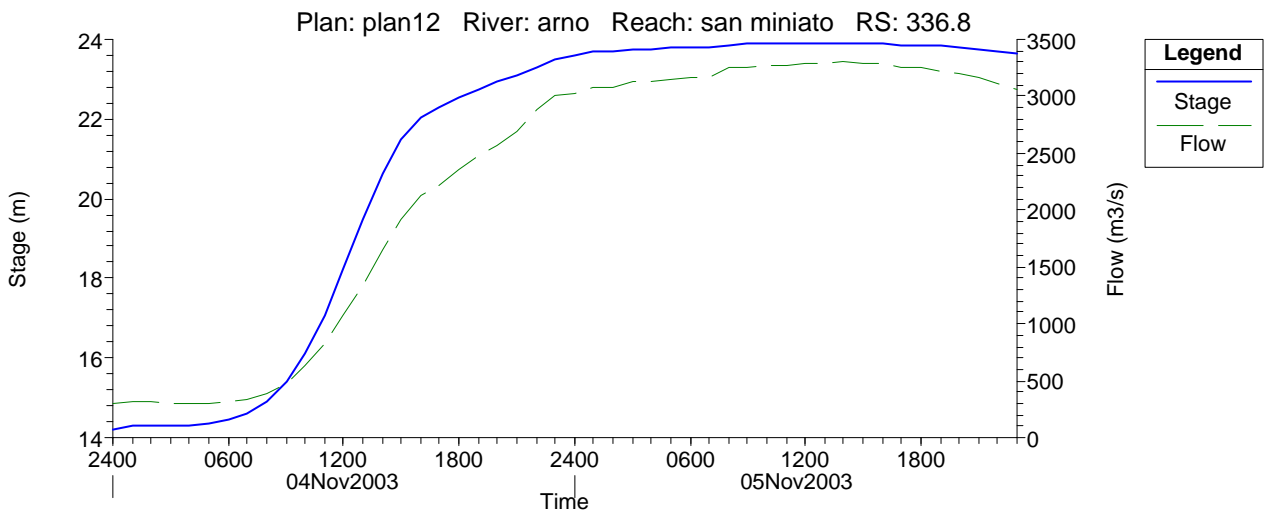
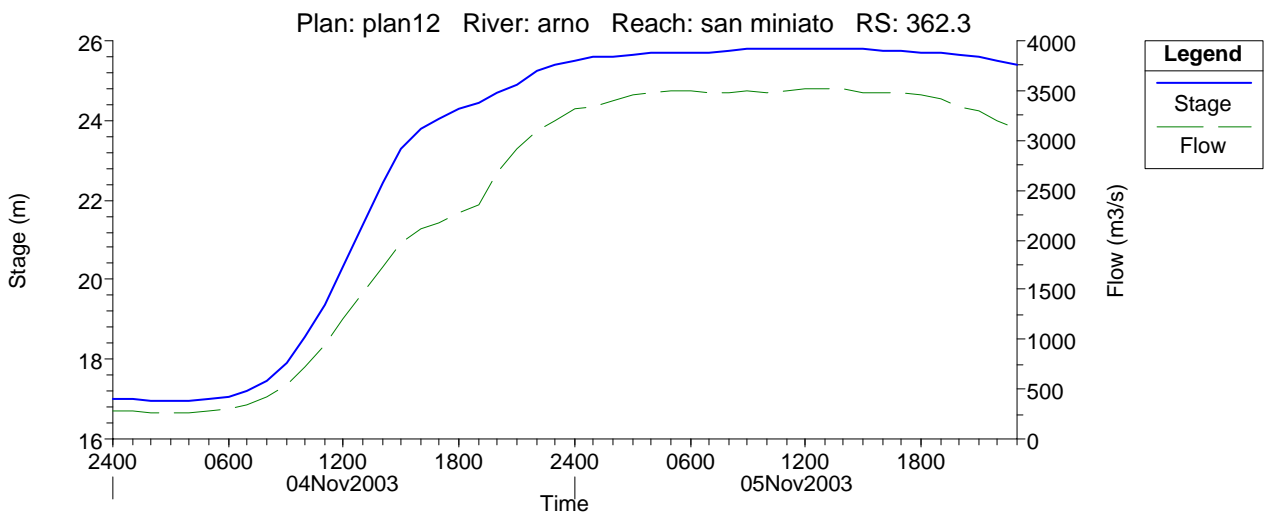
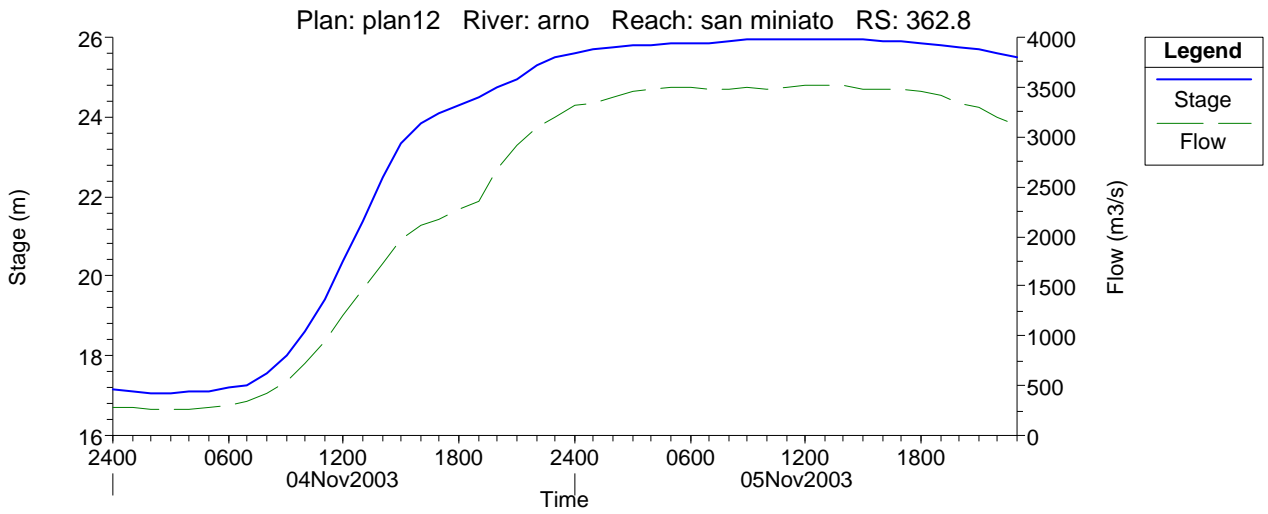
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 sezione 297 TR 200

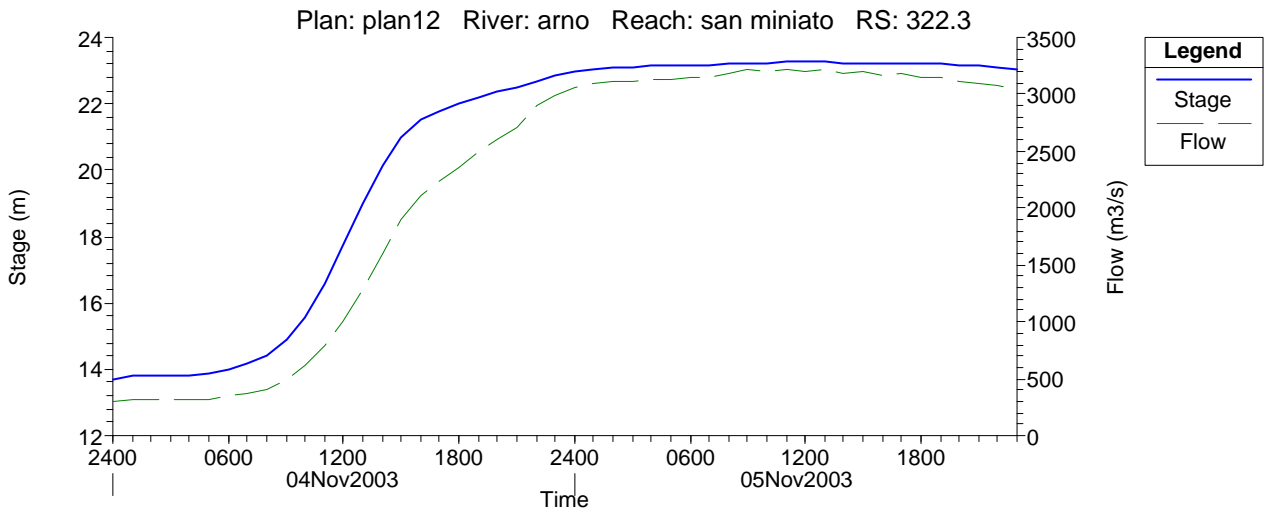
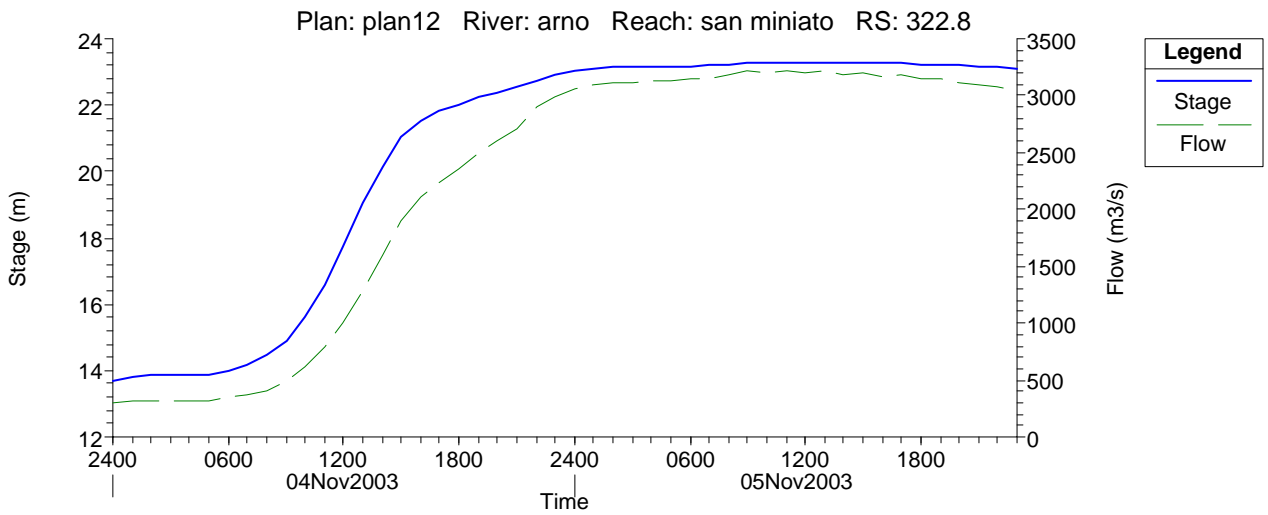
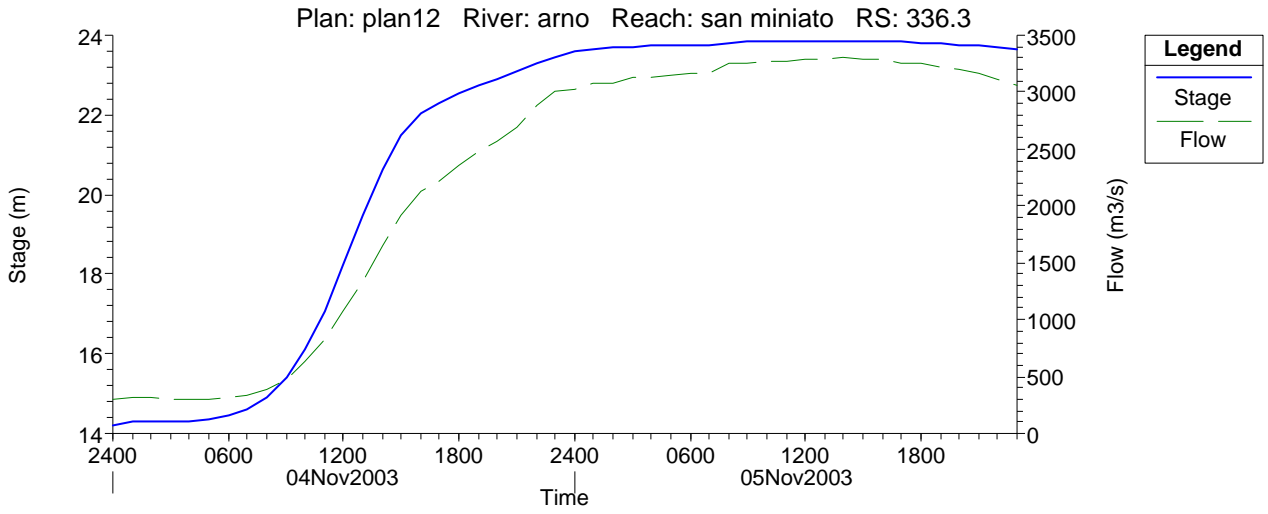


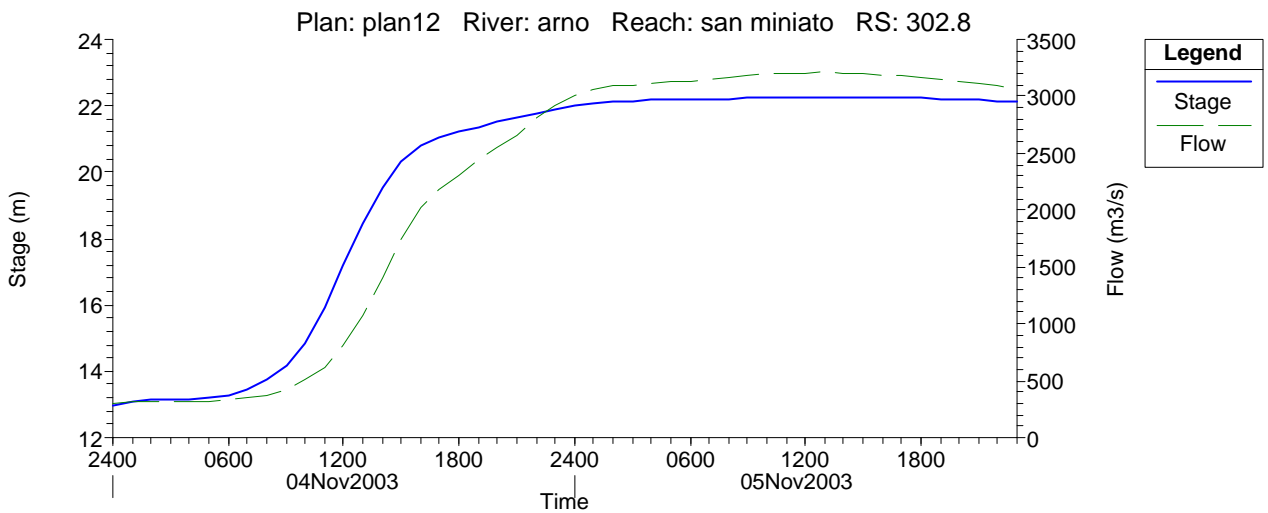
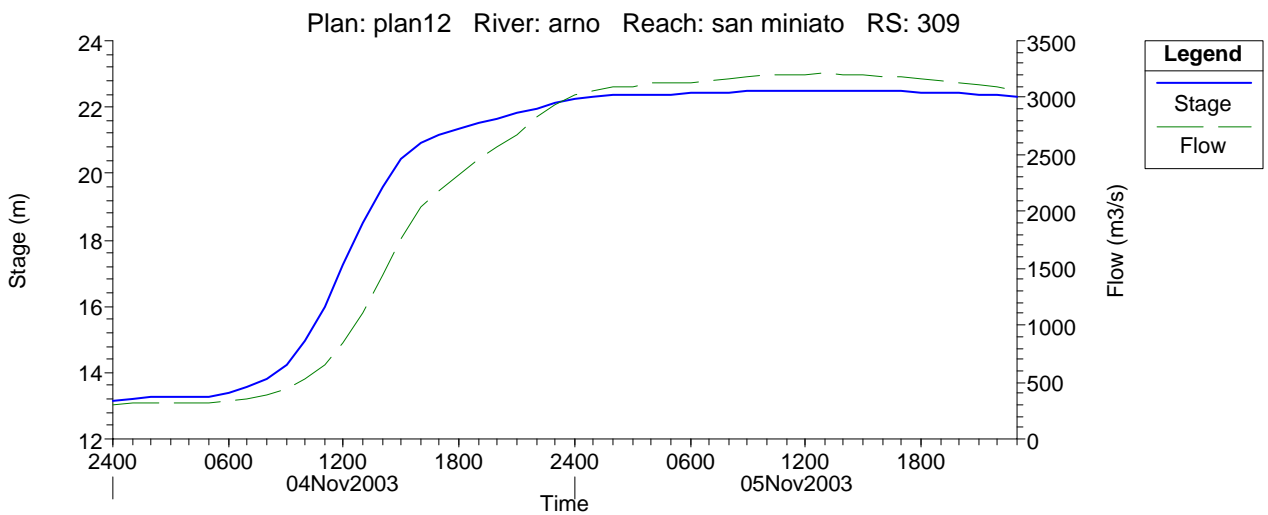
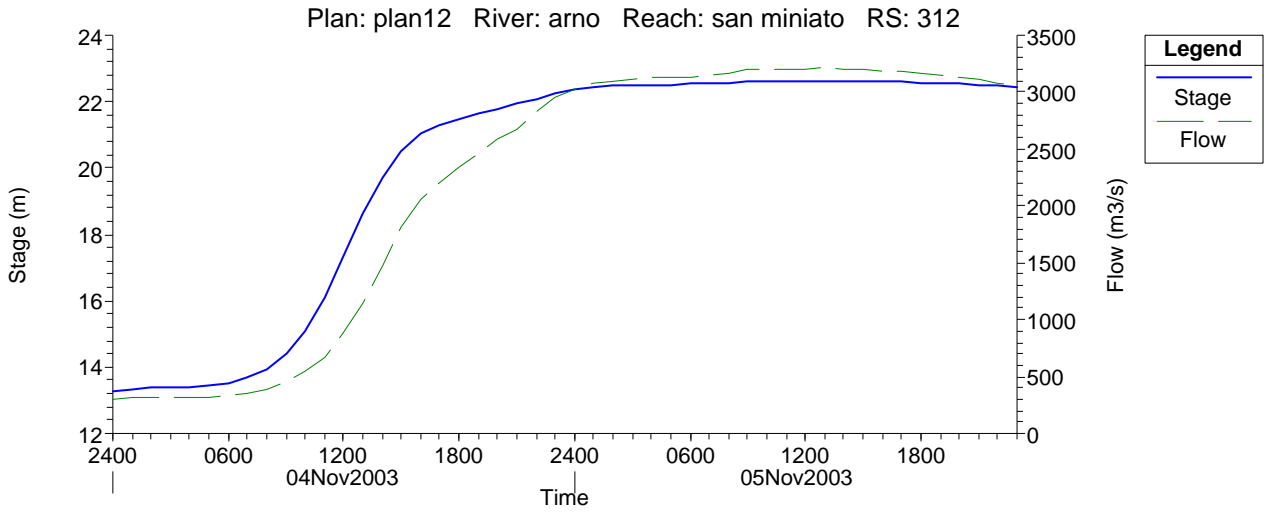




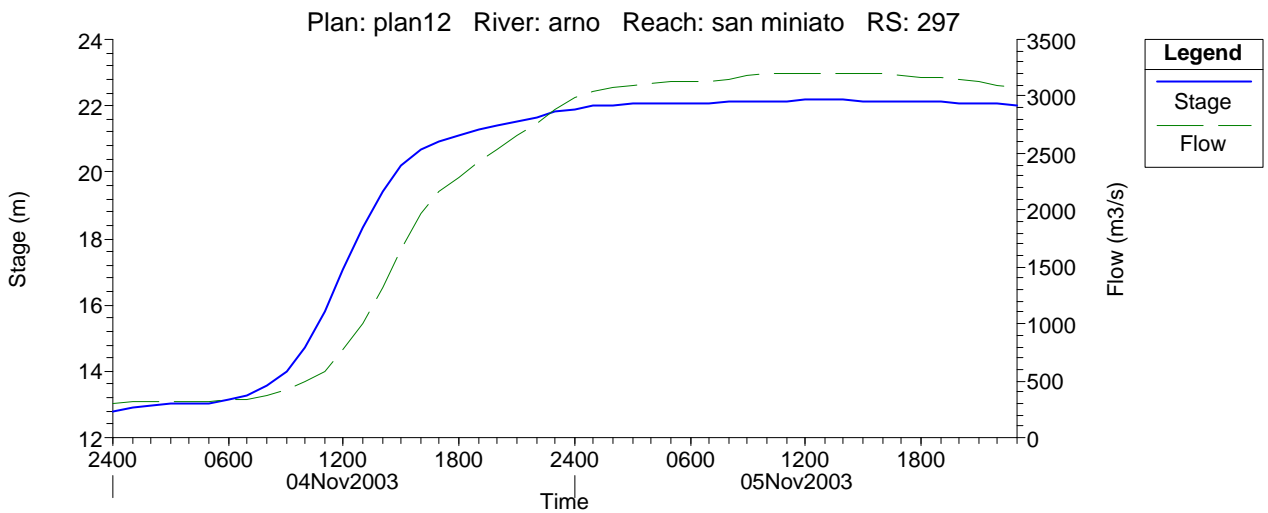
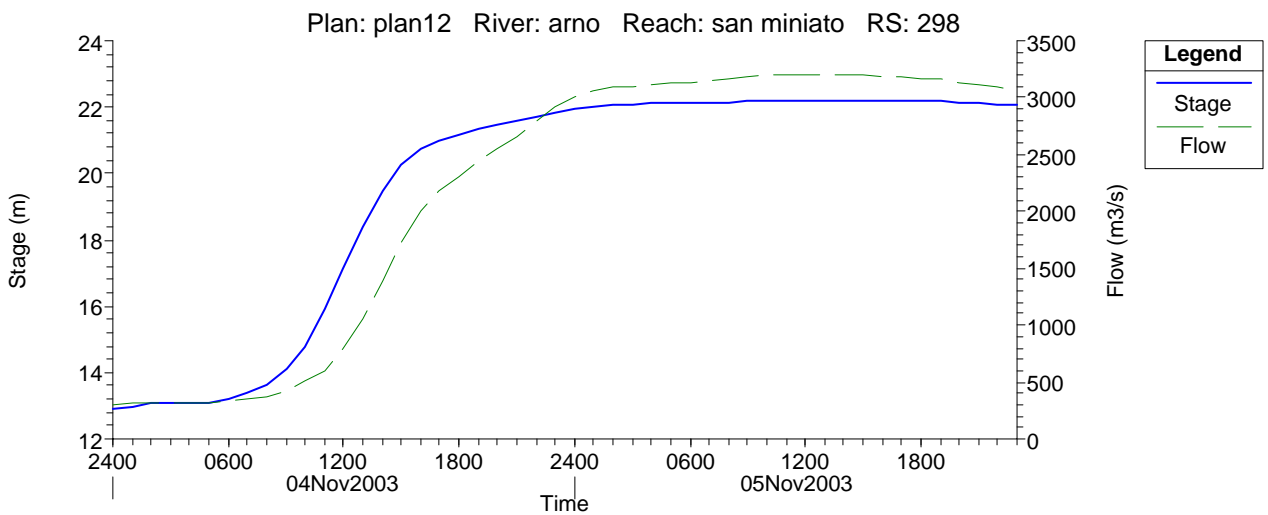
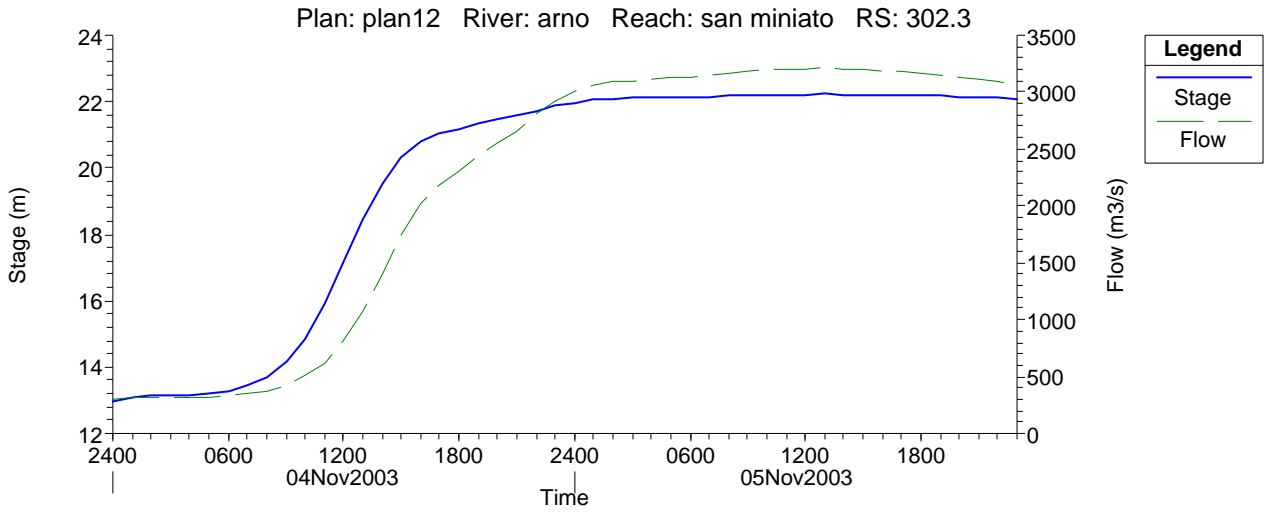














River Sta	Pro file	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Top Width (m)	Froude # Chl	Length Chnl (m)	L. Levee Frbrd (m)	R. Levee Frbrd (m)
397 Max	WS	3621.76	13.05	28.92	2.53	201.79	0.25	460.02	-0.11	1.66
395 Max	WS	3621.56	11.75	28.63	2.87	221.69	0.26	541.21	-0.29	-0.34
390.8 Max	WS	3618.8	11.08	28.21	3.22	90.67	0.29	1	2.95	3.05
390.5	Bridge									
390.3 Max	WS	3618.8	11.08	28.12	3.24	90.67	0.29	480	3.04	3.14
386 Max	WS	3618.74	11.95	28.08	2.64	154.53	0.22	480.96	0.23	-0.55
383 Max	WS	3618.66	12.1	28.05	2.15	169.96	0.18	617.83	0.28	-3.38
382	Lat Struct									
381.8 Max	WS	3618.24	11.69	27.86	2.24	212.67	0.2	1	0.03	-2.09
381.5	Bridge									
381.3 Max	WS	3617.49	11.69	27.8	2.25	212.57	0.2	644.01	0.09	-1.6
379.8 Max	WS	3617.48	11.14	27.66	2.05	171.64	0.18	1	0.61	-1.78
379.6	Bridge									
379.5 Max	WS	3617.48	11.14	27.62	2.06	171.6	0.18	635.14	0.65	-1.74
377 Max	WS	3617.42	10.97	27.45	2.3	259.38	0.2	704.88	-0.09	-1.19
375.6	Lat Struct									
375 Max	WS	3514.79	7.61	27.26	2.45	199.57	0.2	565.26	0.11	-0.83
373 Max	WS	3514.64	11.47	27.05	2.43	155.7	0.23	365.83	0.02	0.84
371 Max	WS	3513.97	11.87	26.96	2.24	206.74	0.21	502.78	0.15	-0.39
369 Max	WS	3513.95	9.89	26.68	2.71	294.9	0.24	491.88	0.29	-0.36
367 Max	WS	3513.86	9.94	26.6	2.25	472.81	0.2	426.33	-0.14	-0.69
365 Max	WS	3513.01	7.6	26.5	2.12	508.6	0.21	302.97	0.09	-0.82
362.8 Max	WS	3513	14.39	25.96	3.4	101.2	0.34	1	2.55	2.56
362.5	Bridge									
362.3 Max	WS	3512.41	14.39	25.82	3.45	101.17	0.35	854.51	2.69	2.7
360 Max	WS	3512.4	5.09	25.67	1.72	321.68	0.15	141		
359 Max	WS	3511.56	8.51	25.55	2.18	181.81	0.2	233	0.27	-0.71
358 Max	WS	3511.55	7.36	25.54	1.96	677.11	0.19	205.8	-0.05	-0.57
356 Max	WS	3511.53	8.17	25.52	1.7	646.24	0.18	374.7	0.34	-1.71
354.8 Max	WS	3978.09	8.9	25.33	2.08	525.29	0.2	1.2	0.14	
354.5 Max	WS	3978.09	8.9	25.33	2.08	525.29	0.2	902.29	0.14	
354.3	Lat Struct									
352 Max	WS	3977.84	6.99	25.08	2.02	762.48	0.19	623.52	-0.08	-1.26
350.8 Max	WS	3977.37	9.65	24.83	2.1	1014.39	0.23	1.2	0.3	-1.05
350.6	Lat Struct									
350.5 Max	WS	3976.1	9.65	24.83	2.1	1014.39	0.23	721.12	0.3	-1.05
348 Max	WS	3977	7.41	24.5	2.36	1216.28	0.23	290	0.31	
347.1	Lat Struct									
347 Max	WS	3596.99	6.54	24.5	1.8	834.89	0.18	371.08	0.22	-1.58
346 Max	WS	3596.78	7.57	24.35	1.99	824.75	0.2	663.57	-0.35	
344.1	Lat Struct									
344 Max	WS	3289.47	8.73	24.32	1.17	1050.9	0.11	430.49	-0.64	-1.58
342 Max	WS	3286.42	7.8	24.25	1.31	791.98	0.12	576.32	0	-0.93
340 Max	WS	3285.9	6.76	24.07	2.1	239.58	0.17	532.34	0.4	-1.37
336.8 Max	WS	3285.82	8.24	23.91	2.13	129	0.19	1	4.57	4.58



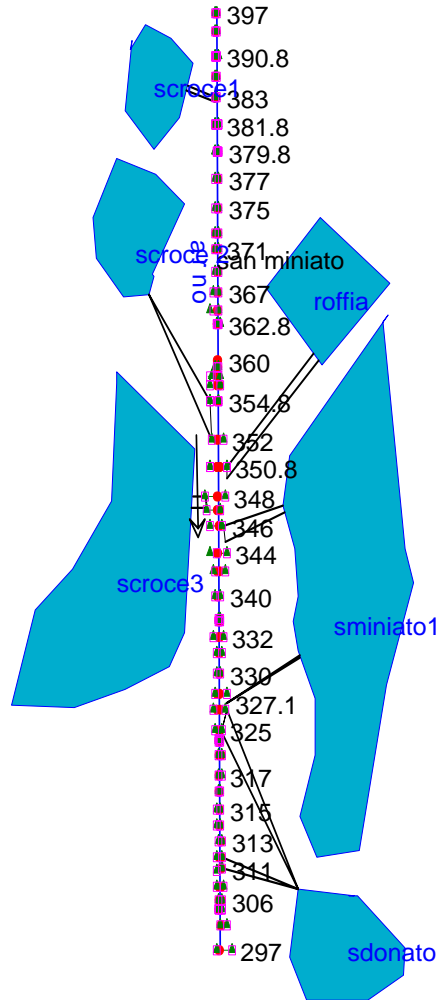
336.5	Bridge									
336.3 Max	WS	3285.82	8.24	23.87	2.14	129	0.19	385.41	4.61	4.62
332 Max	WS	3285.73	7.5	23.89	1.59	537.35	0.15	362.24	0.45	0.41
331 Max	WS	3285.66	7.42	23.71	2.16	314.55	0.21	508.52	0.68	0.72
330 Max	WS	3282.79	7.49	23.57	1.99	188.25	0.19	475.58	0.7	0.31
329 Max	WS	3281.87	7.38	23.56	1.54	703.25	0.14	346.68	0.66	0.34
327 Max	WS	3279.97	7.84	23.54	1.2	820.69	0.12	500.83	-0.06	0.42
325.1	Lat Struct									
325 Max	WS	3228.92	5.54	23.45	1.51	441.83	0.13	227.69	-0.34	0.37
322.8 Max	WS	3218.64	8.6	23.29	2.22	129	0.2	1	1.41	1.41
322.5	Bridge									
322.3 Max	WS	3218.64	8.6	23.26	2.23	129	0.2	320.57	1.45	1.45
318 Max	WS	3215.3	8.5	23.31	1.42	241.35	0.14	479.47	0.29	-0.51
317 Max	WS	3215.09	6.5	23.12	2	166.87	0.18	396.7	0.04	0.33
316 Max	WS	3214.61	6.35	22.93	2.3	217.09	0.22	396.33	0.07	-0.53
315 Max	WS	3213.95	5.1	22.84	2.13	233.77	0.2	364.23	0.03	0.29
314 Max	WS	3210.71	8	22.76	1.96	346.57	0.19	395.04	-0.27	0.02
313 Max	WS	3210.69	7.3	22.71	1.67	377.22	0.16	348.32	-0.12	-0.07
312 Max	WS	3210.62	8.1	22.62	1.81	420.68	0.18	310.39	-0.48	-0.21
311 Max	WS	3210.53	6.85	22.52	2.01	427.16	0.19	400.11	-0.82	-0.02
309 Max	WS	3210.47	7.3	22.5	1.6	478.74	0.16	331.55	-1.25	-0.13
306 Max	WS	3210.41	5.1	22.43	1.46	336.53	0.13	199.25	-1.06	-5.14
302.8 Max	WS	3210.38	8.54	22.27	2.2	156.08	0.21	1	1.35	1.38
302.5	Bridge									
302.3 Max	WS	3210.38	8.54	22.23	2.21	156.04	0.21	345.6	1.39	1.42
298 Max	WS	3210.11	7.9	22.22	1.76	545.91	0.17	616.81	-1.16	-0.37
297 Max	WS	3209.38	6.05	22.17	1.28	1051.18	0.13		-0.97	-0.46



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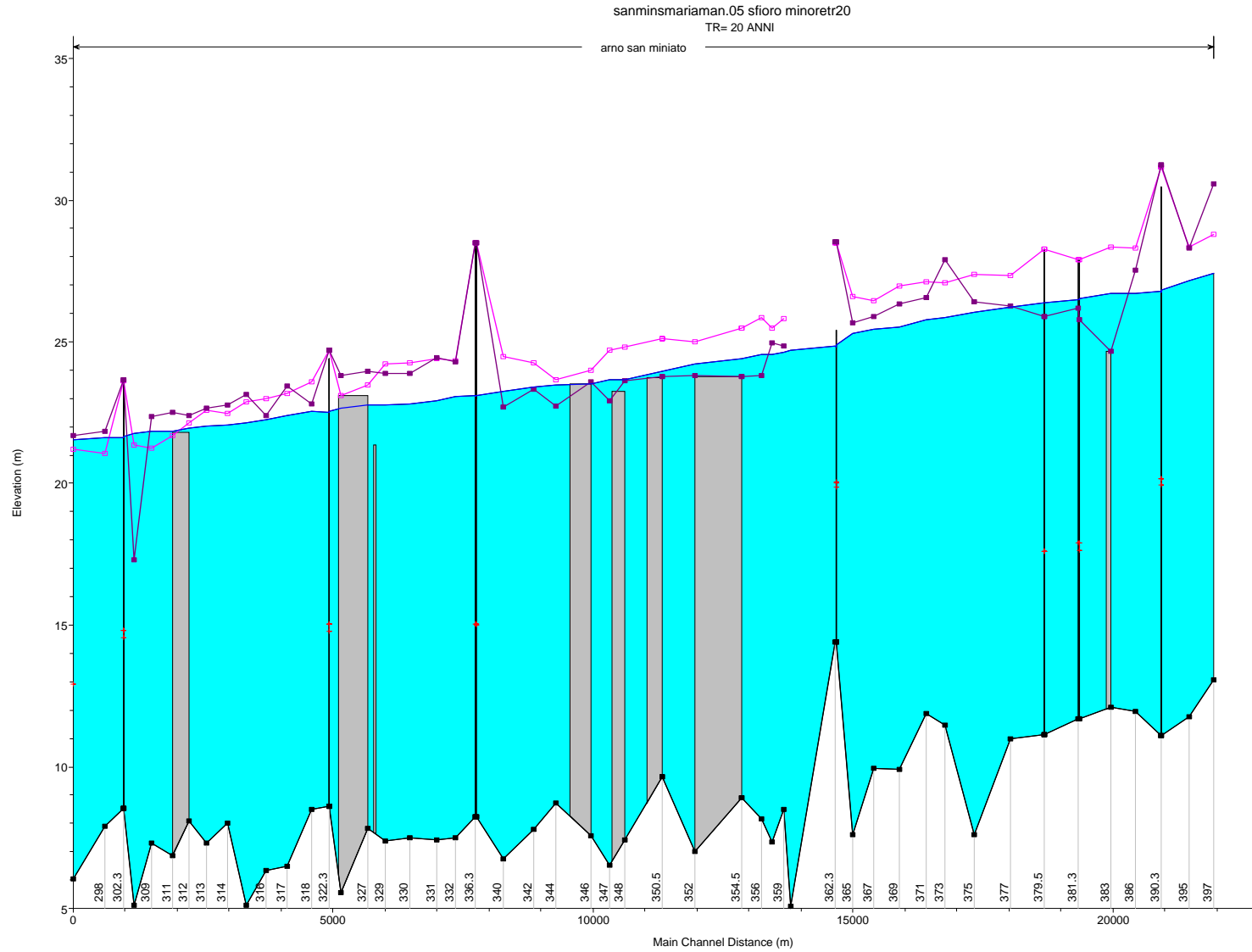
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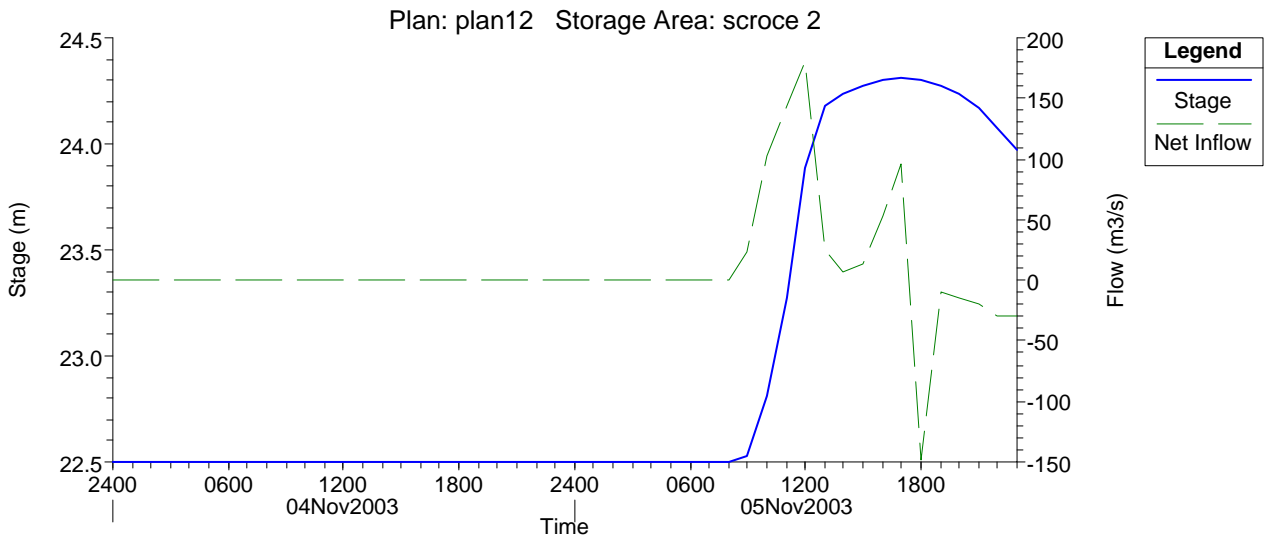
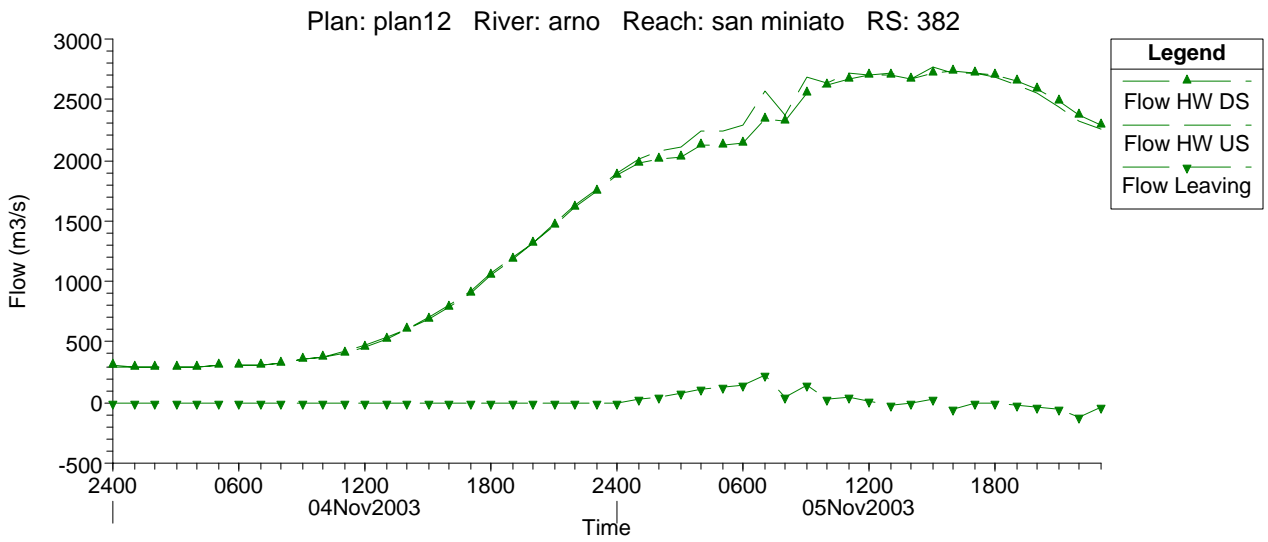
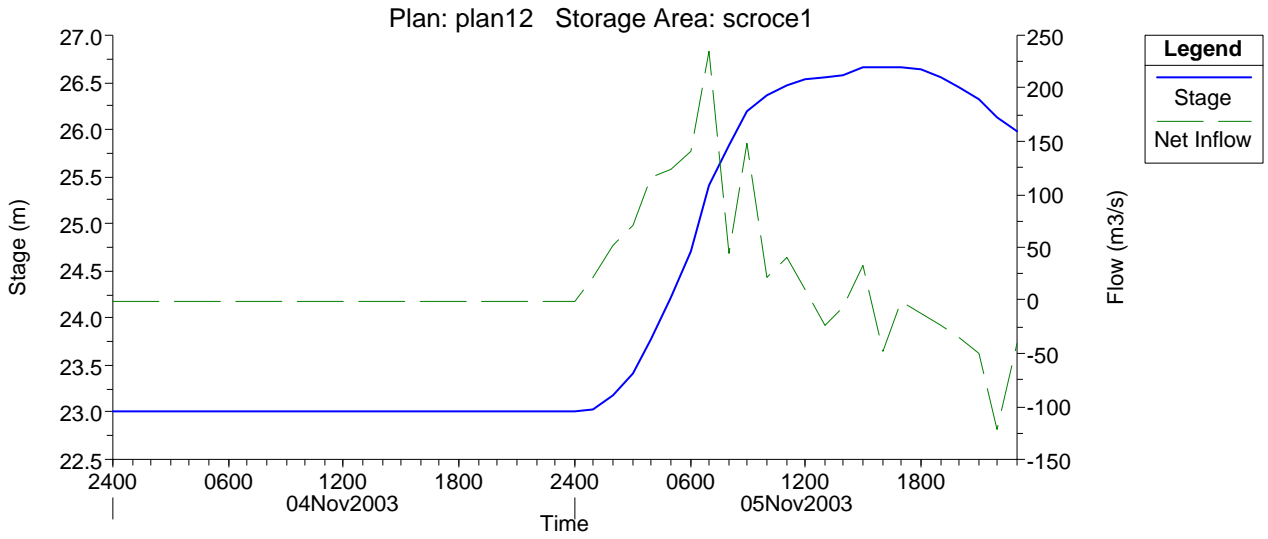
**S. MINIATO**

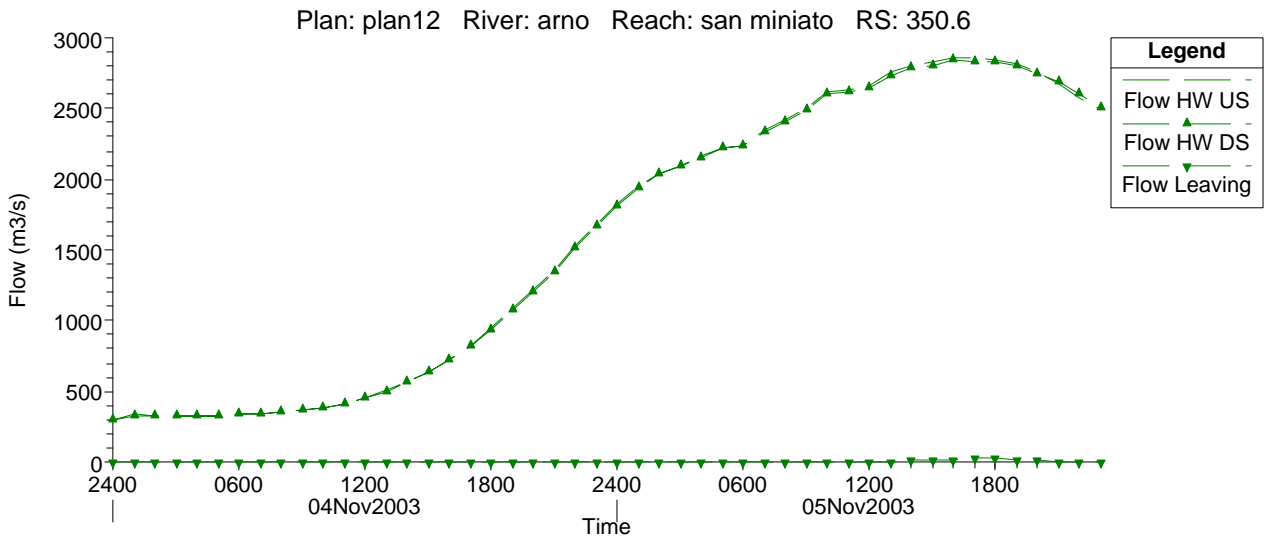
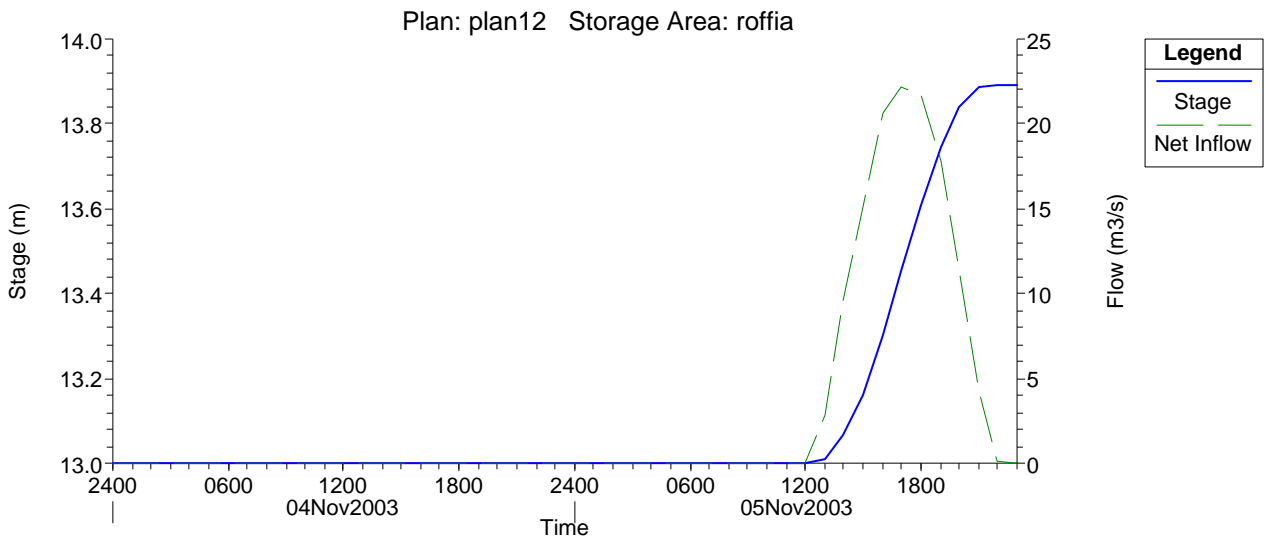
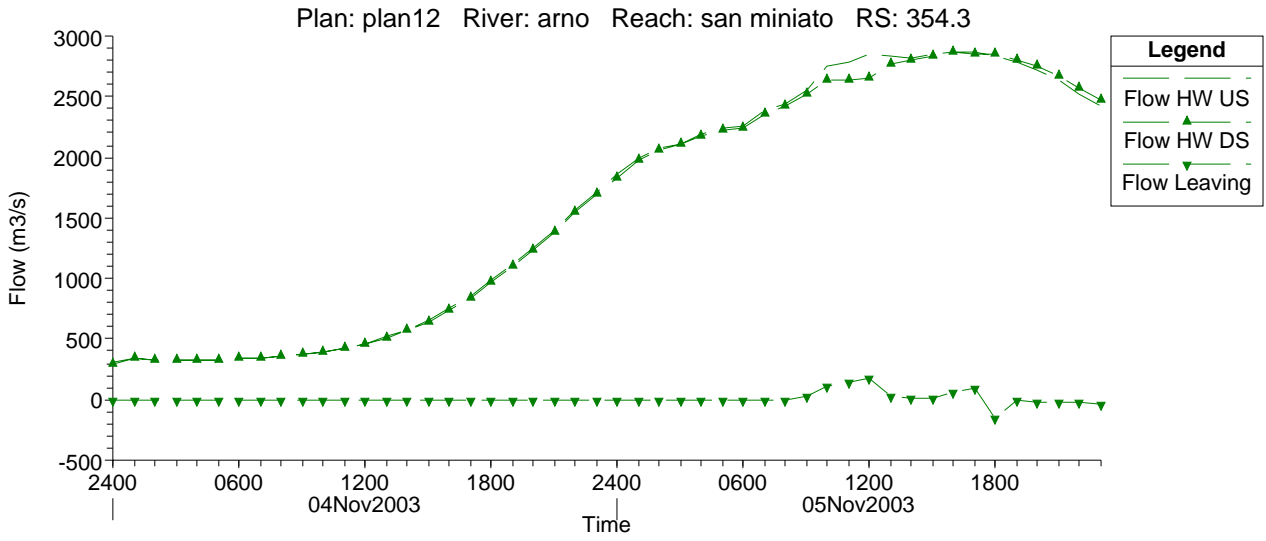




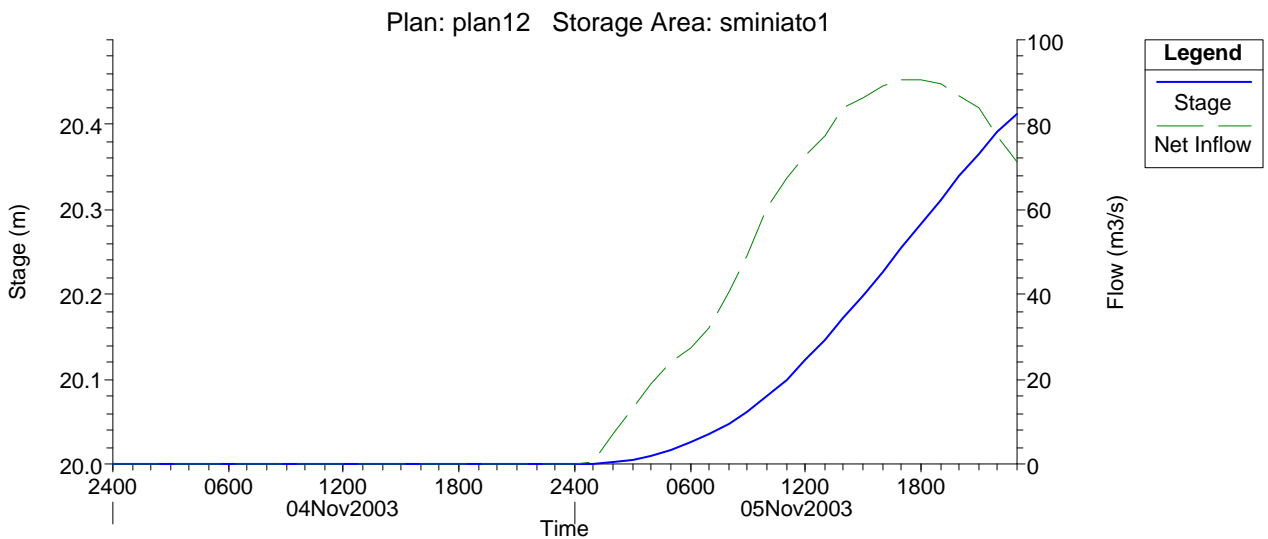
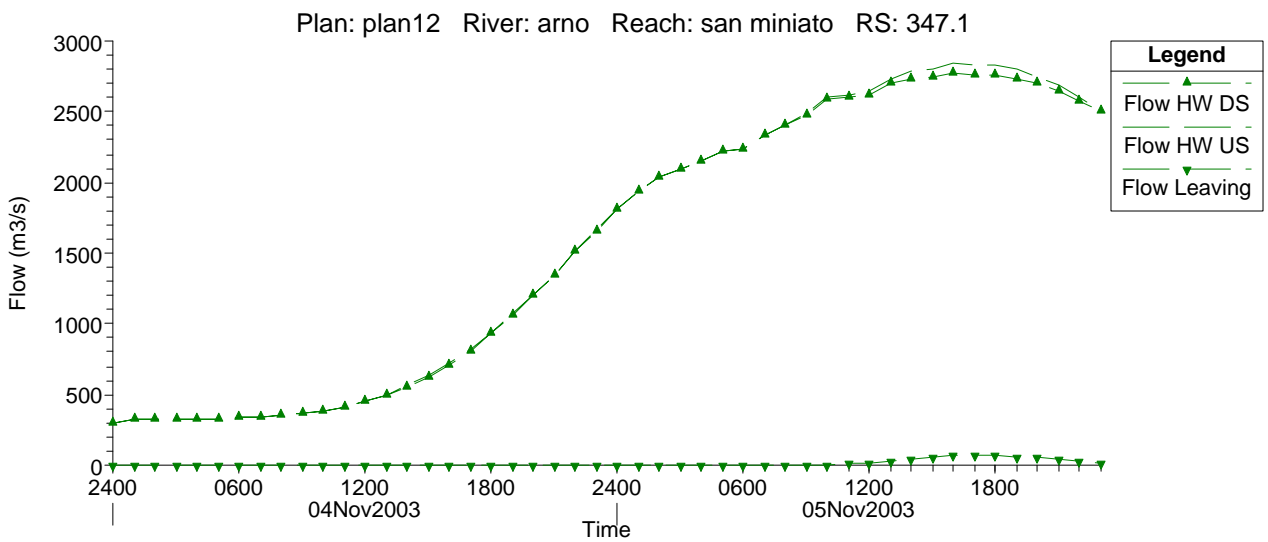
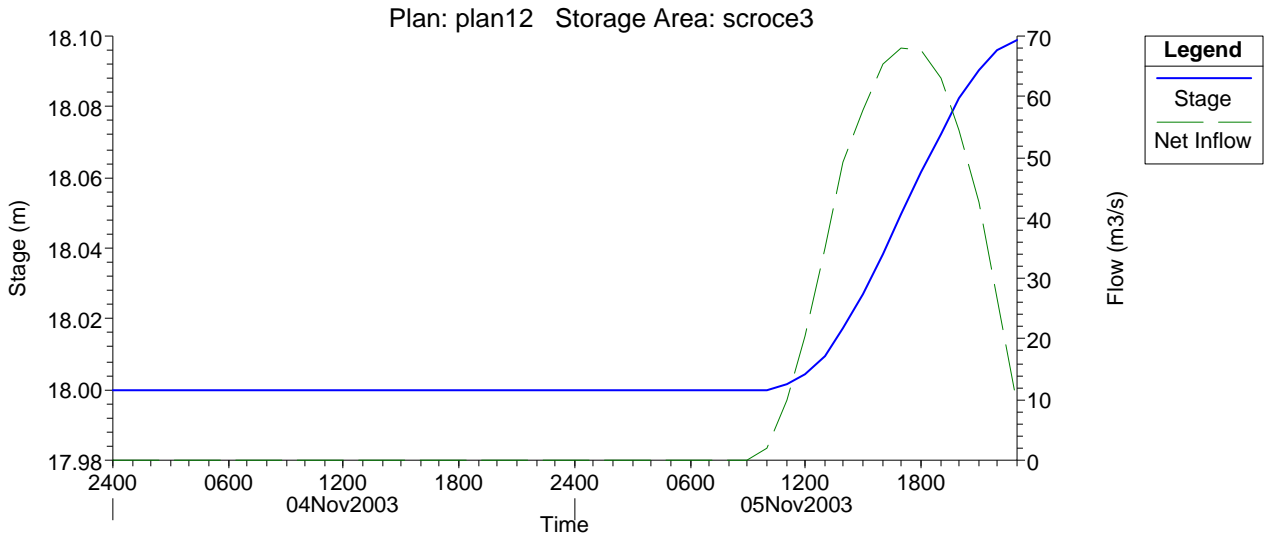
Studio di Ingegneria Dott. Ing. Nicola Croce Prof. Ing. Pietro Croce  
 via Carducci, 47 - 56010 Ghezzano (PI) e-mail: croce@interfree.it tel 050 878 716 050 878 507 fax 050 877 994





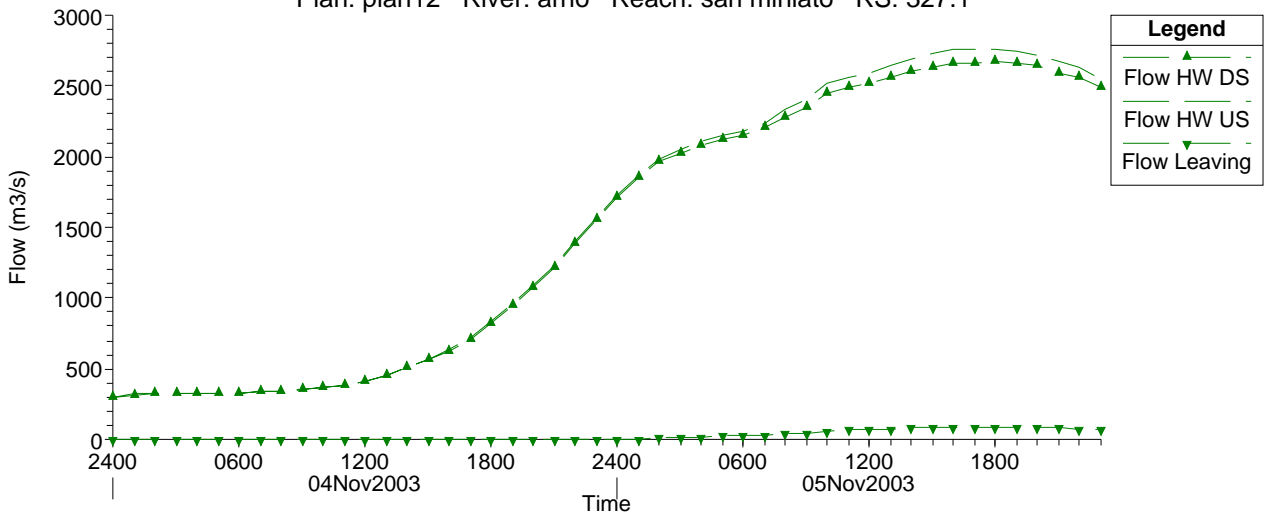




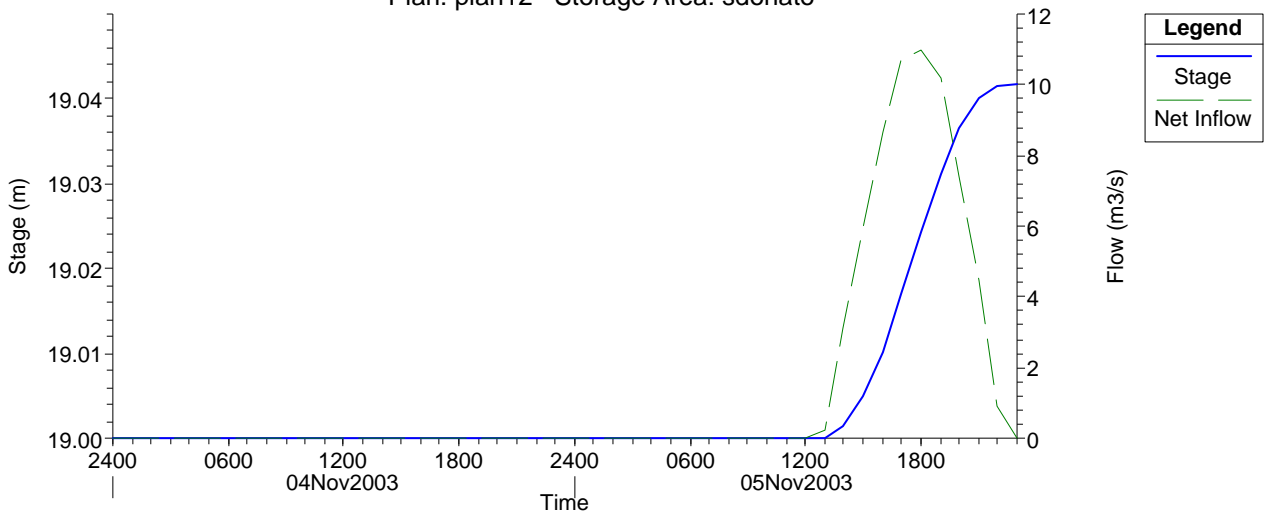




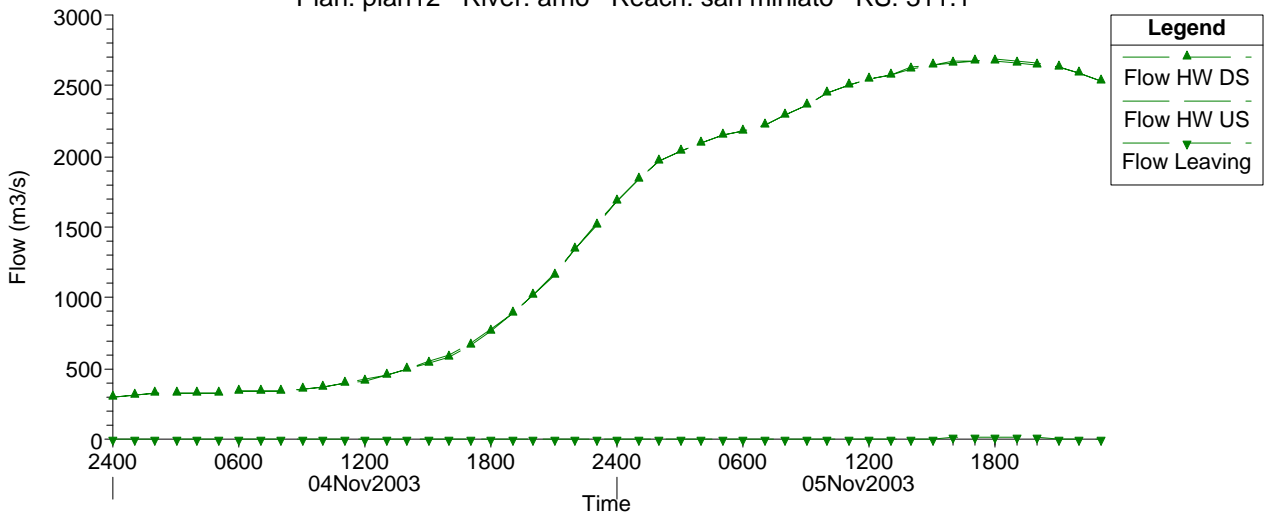
Plan: plan12 River: arno Reach: san miniato RS: 327.1

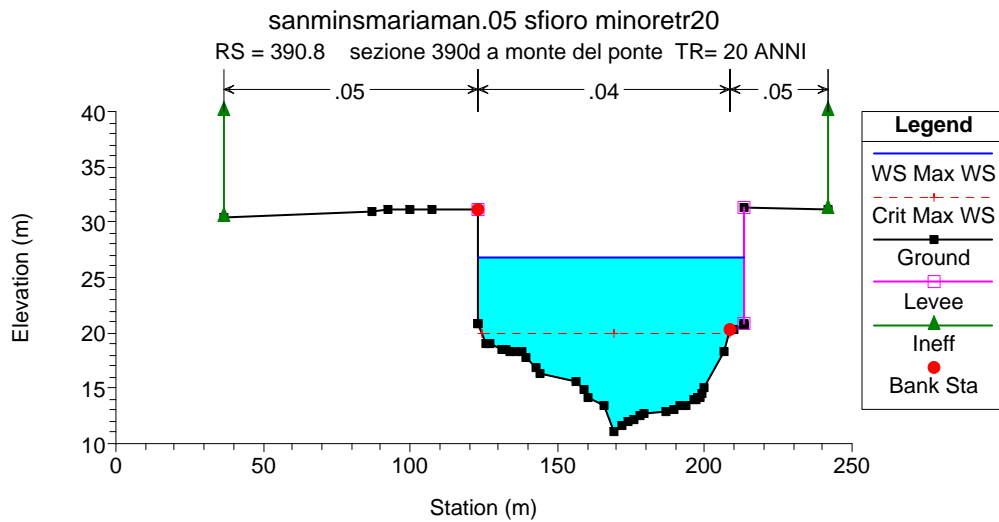
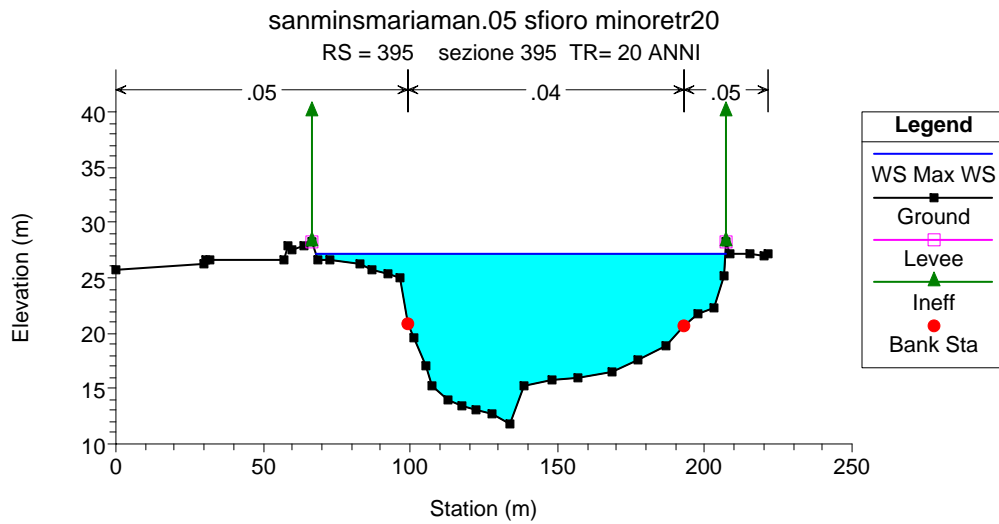
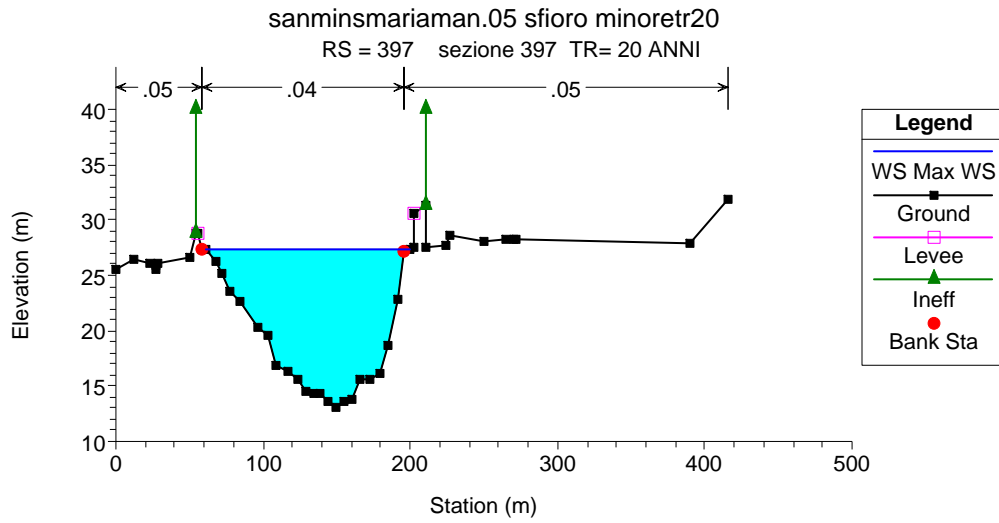


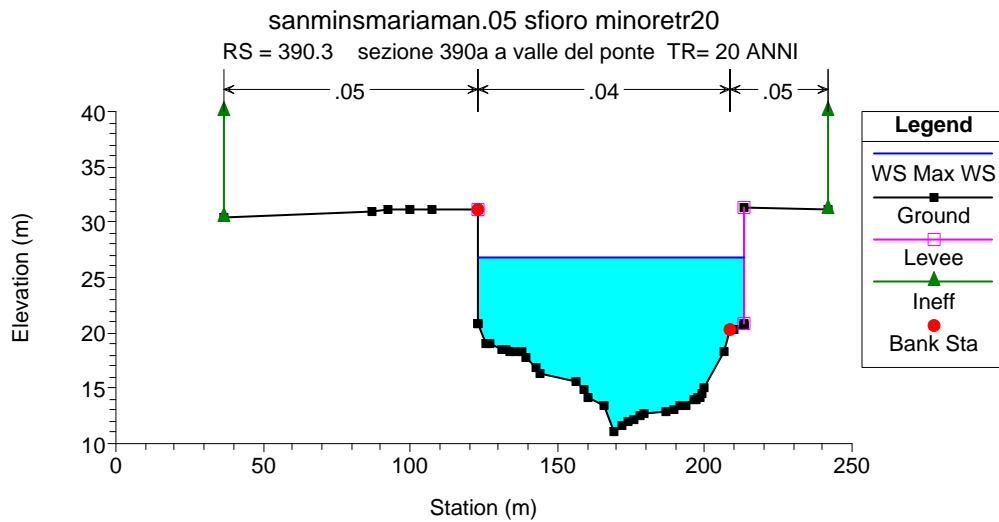
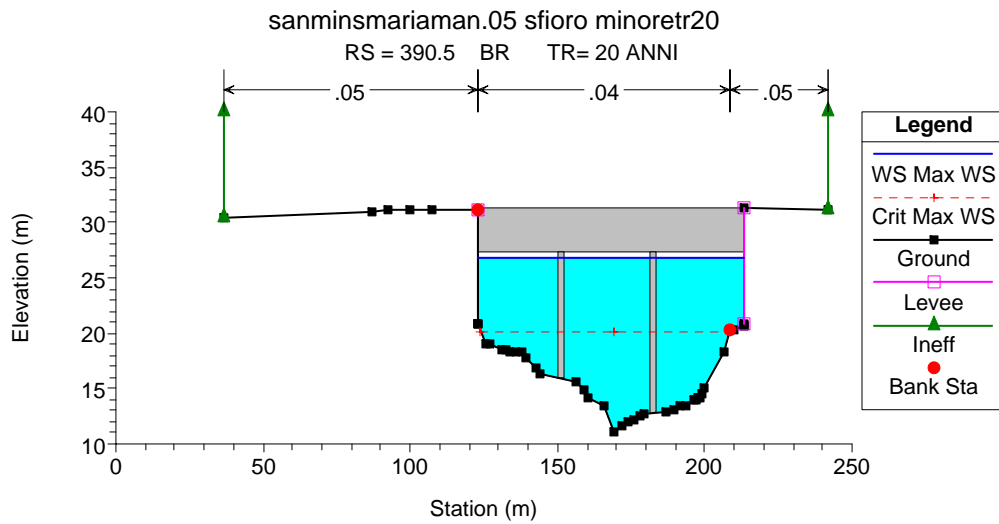
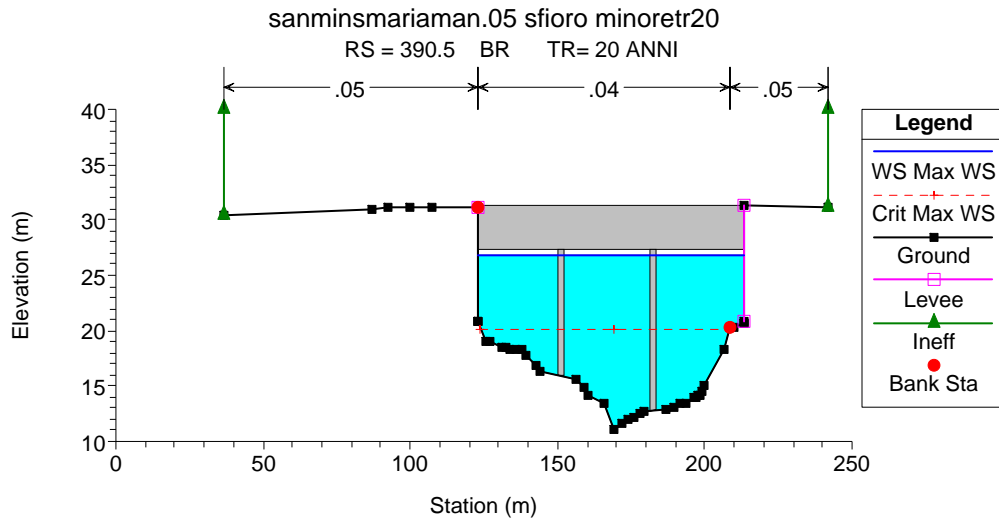
Plan: plan12 Storage Area: sdonato

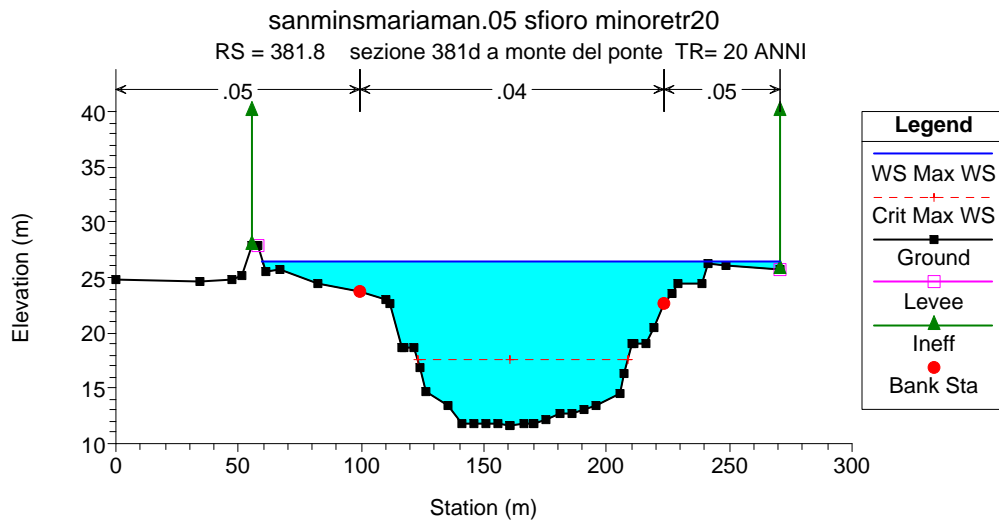
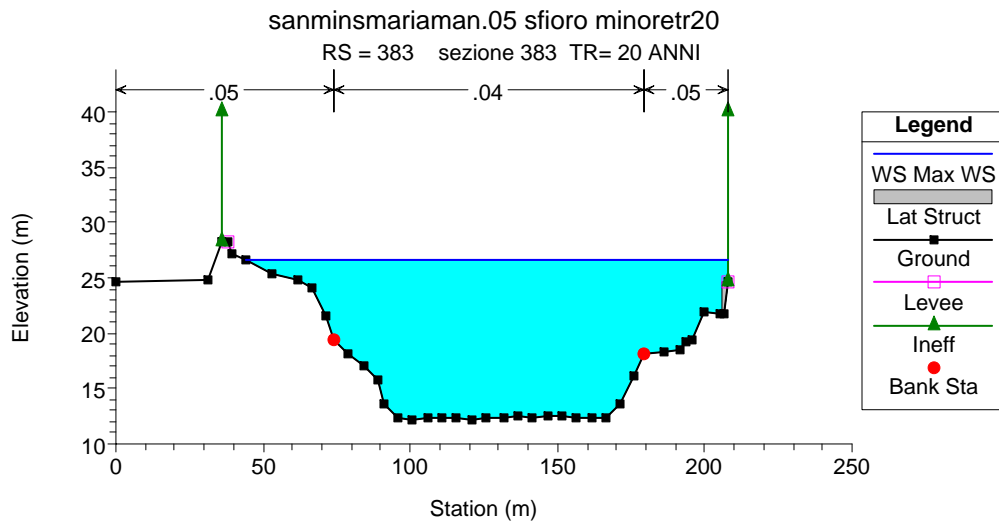
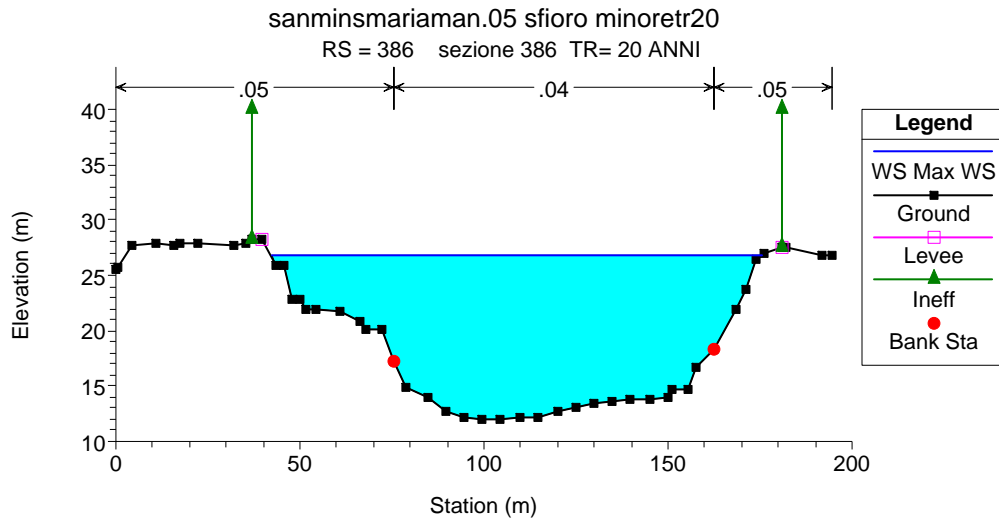


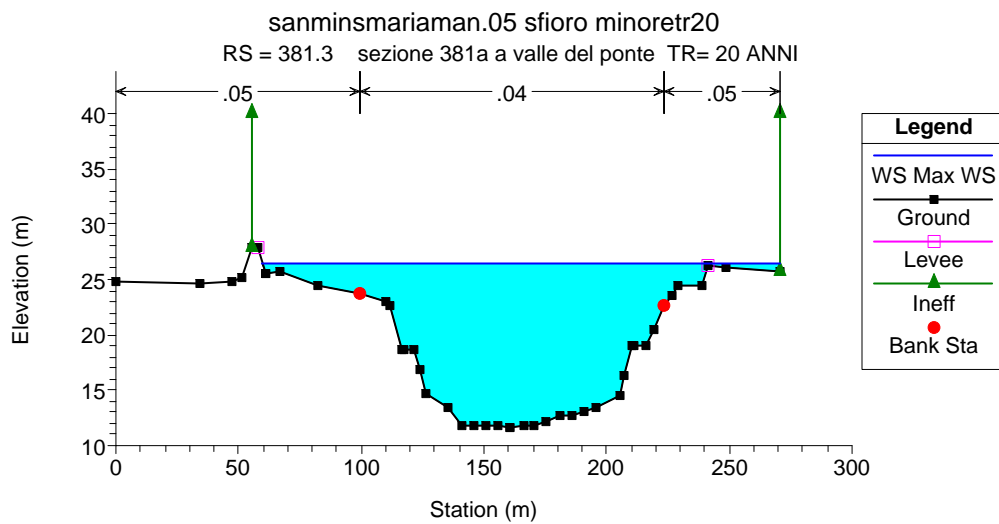
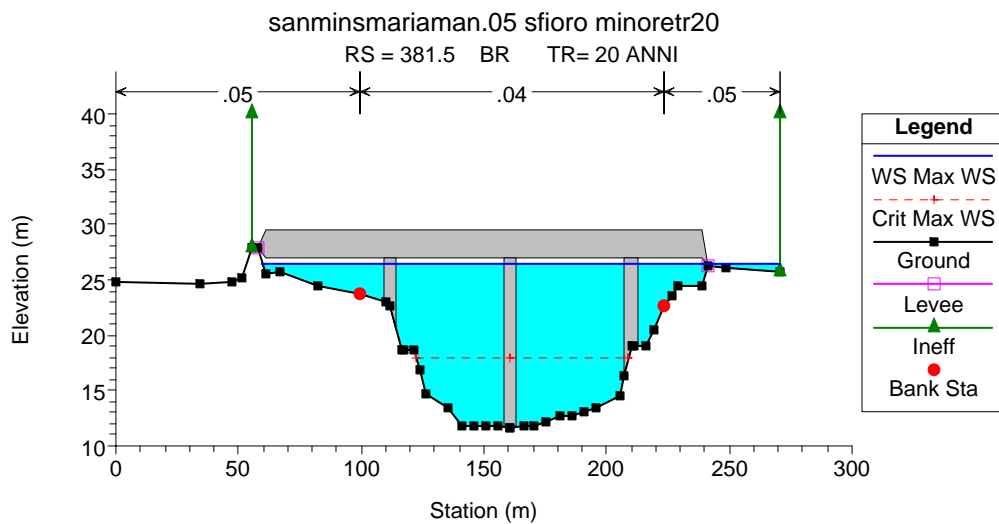
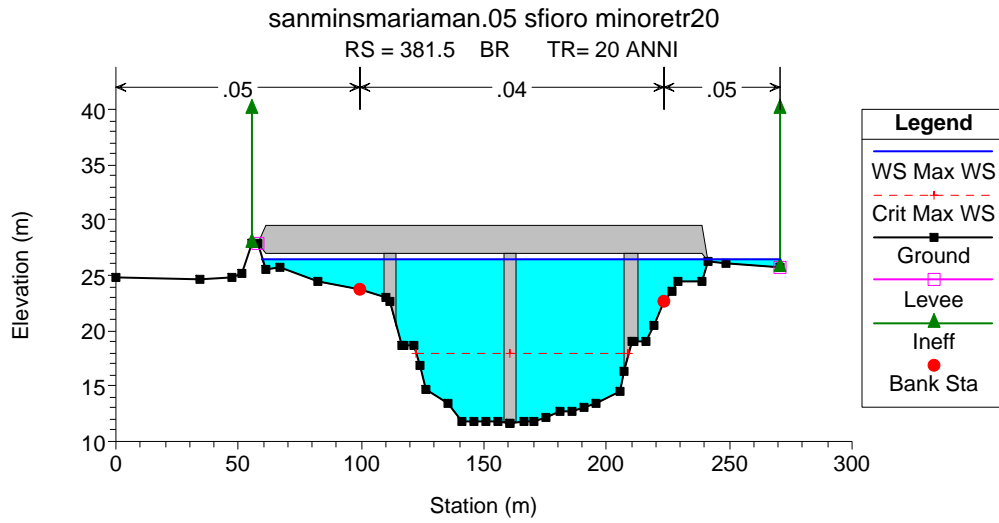
Plan: plan12 River: arno Reach: san miniato RS: 311.1

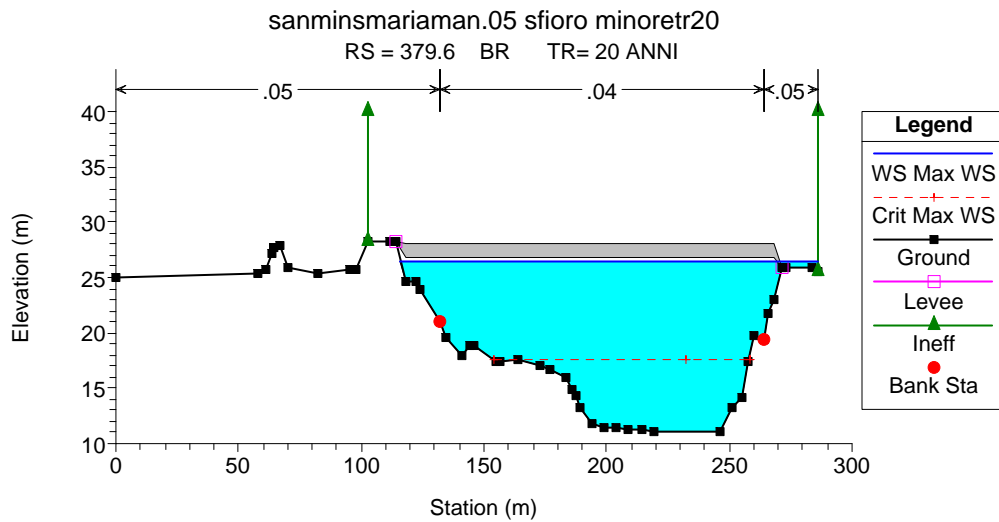
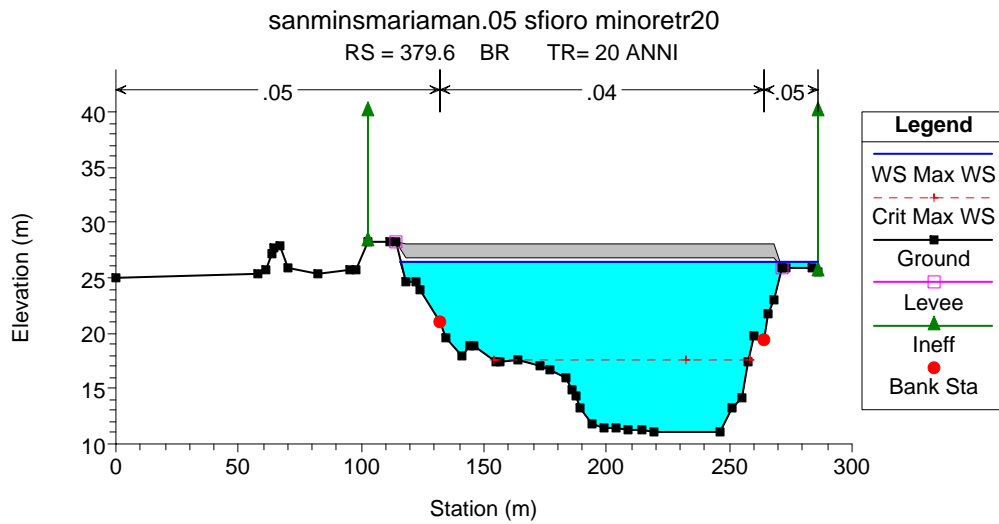
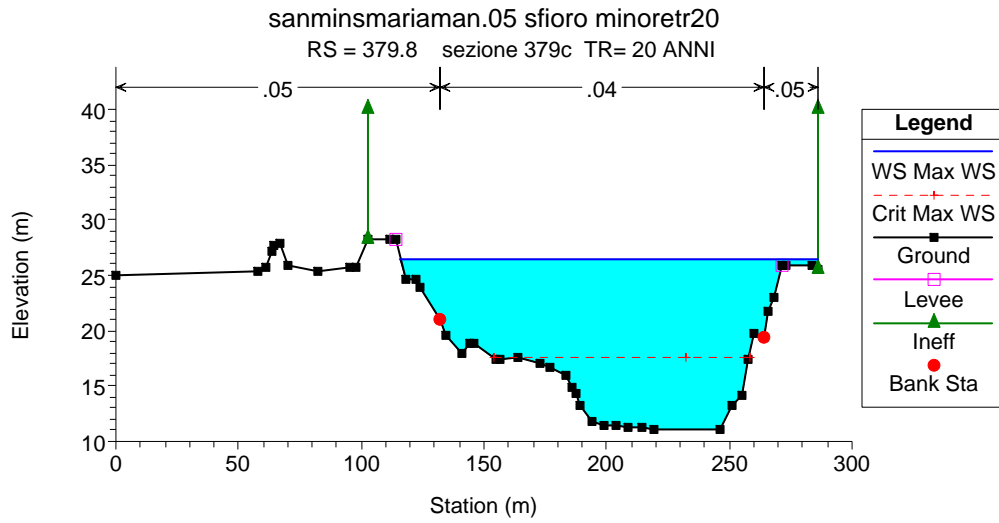


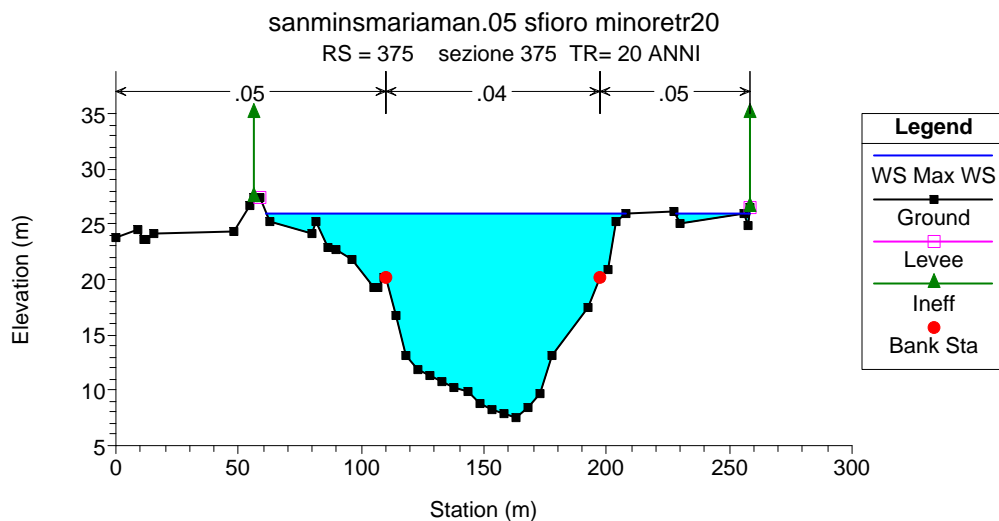
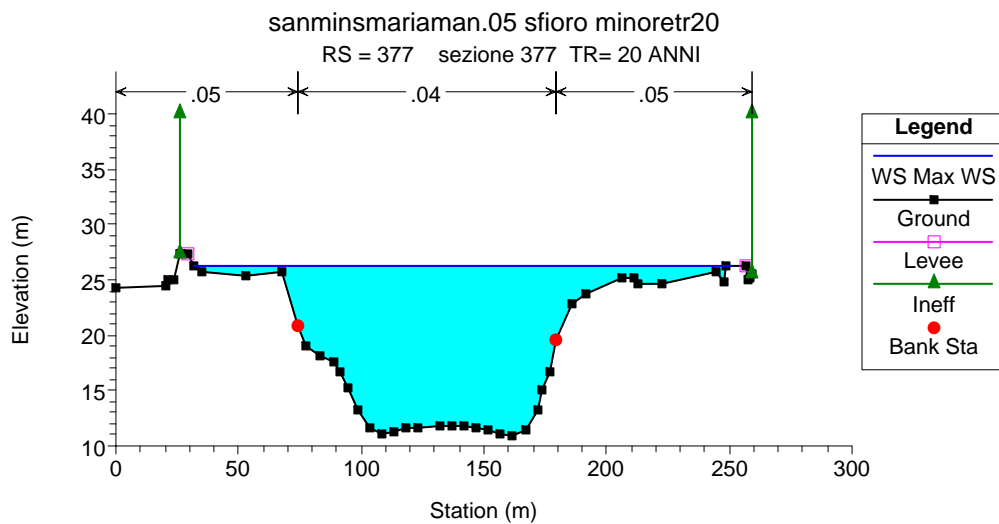
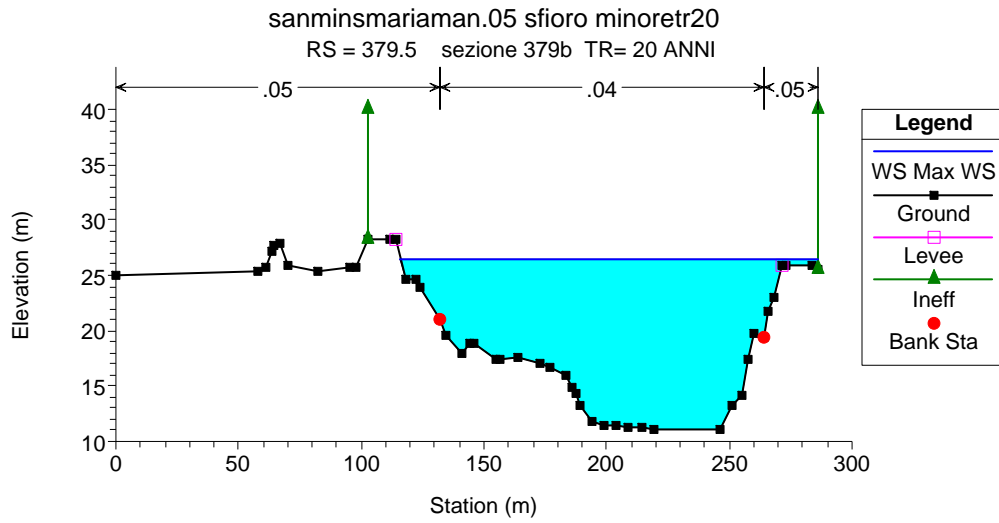




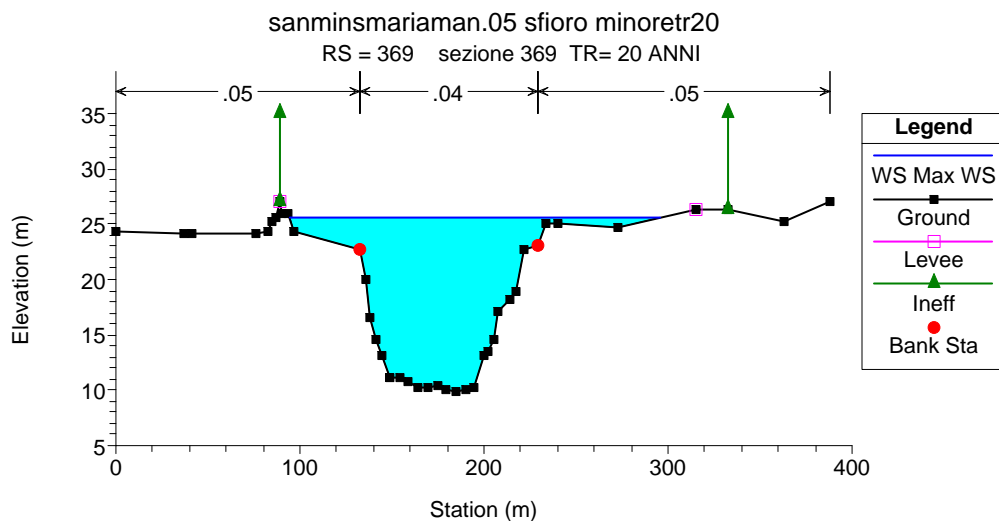
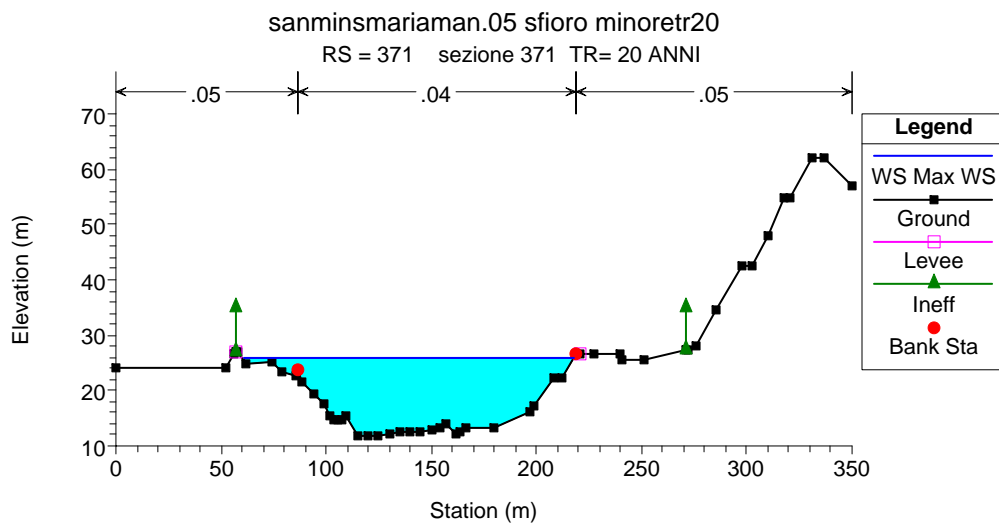
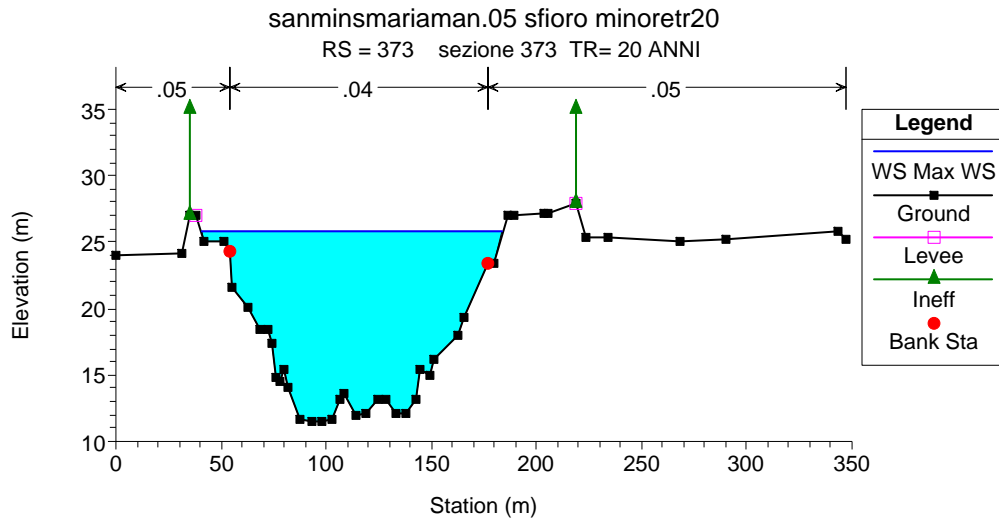


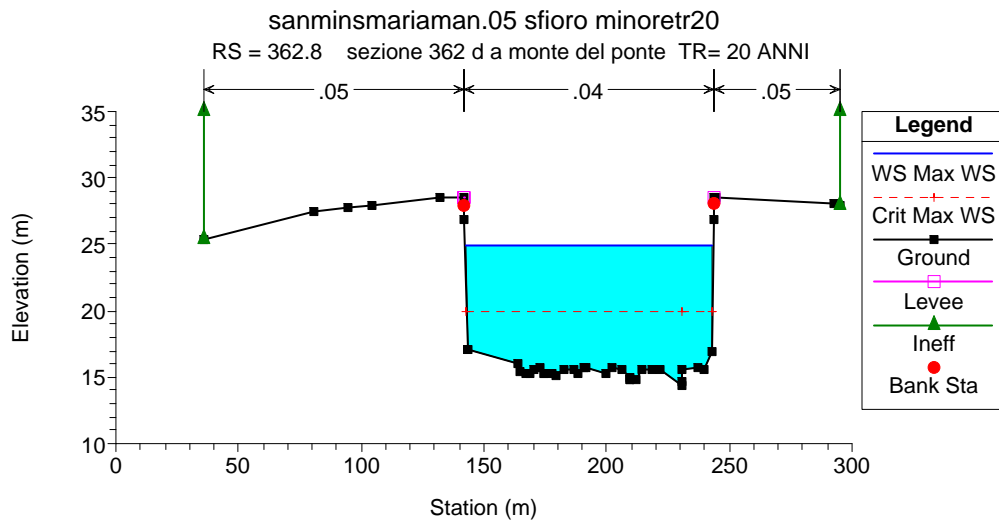
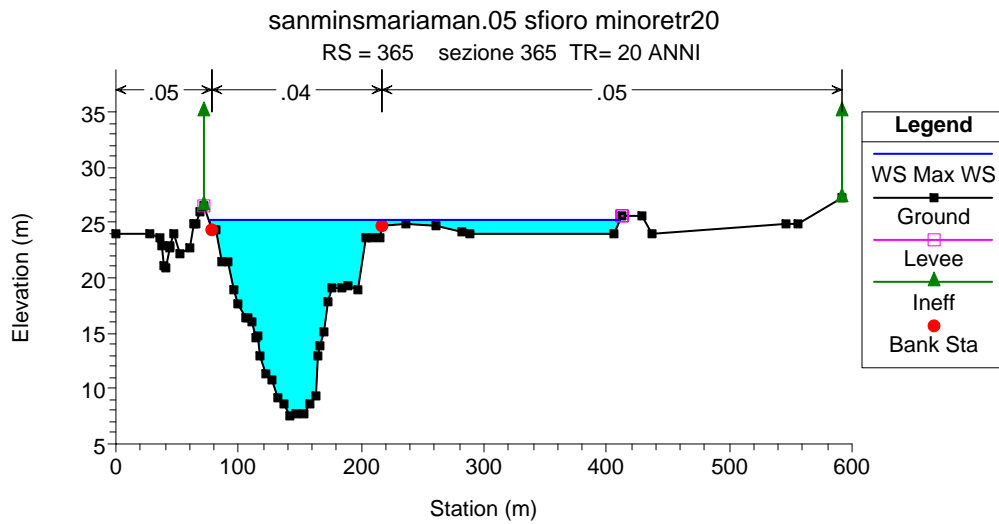
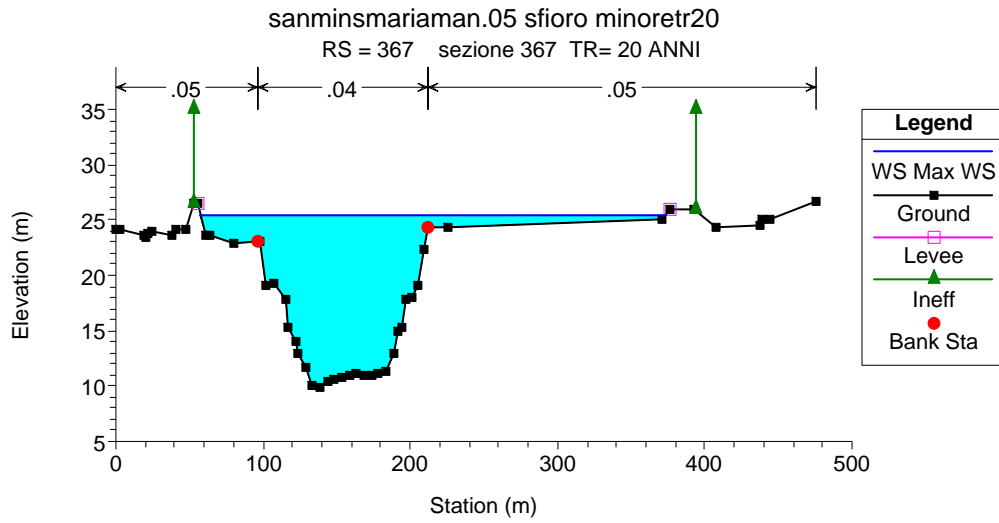


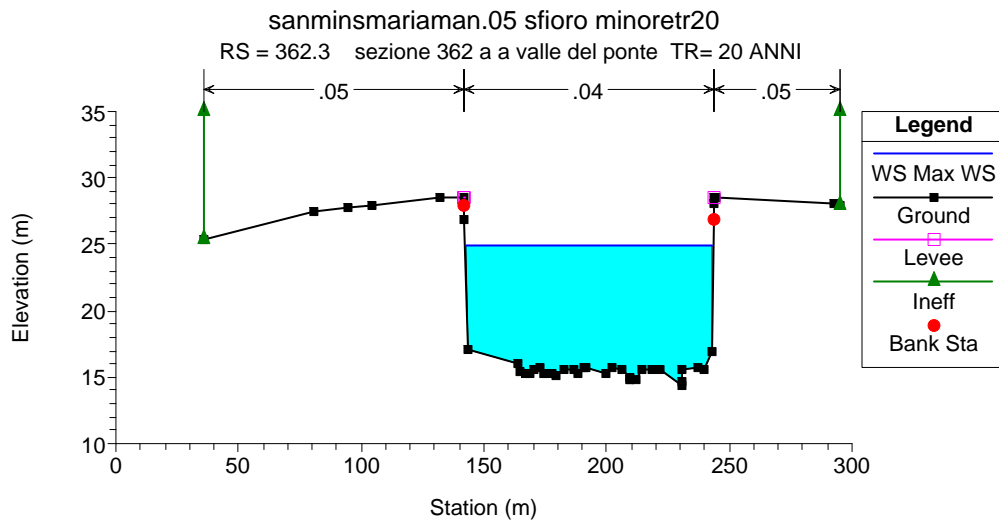
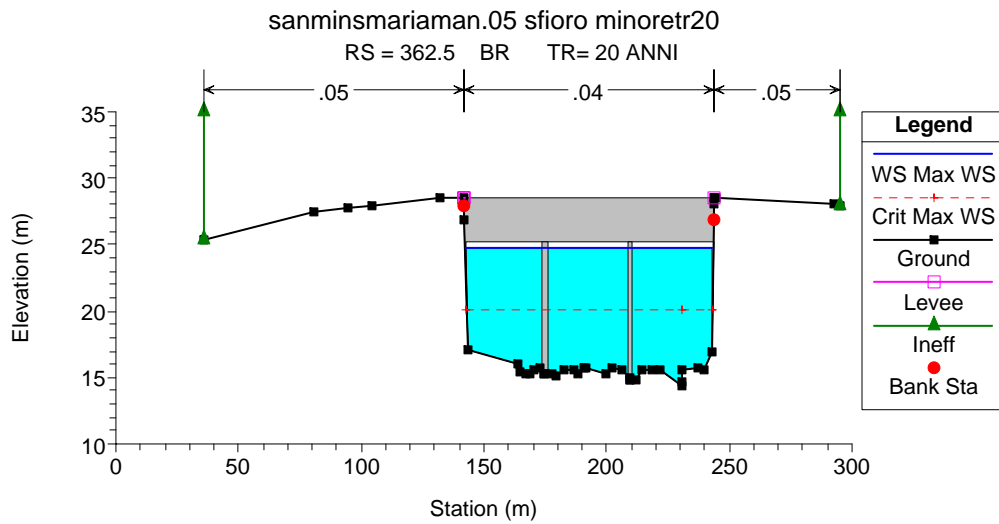
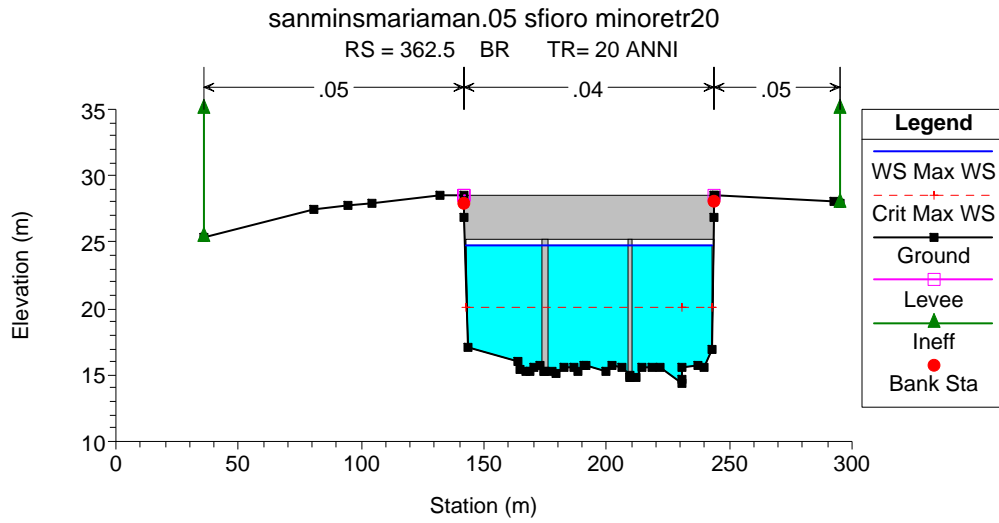


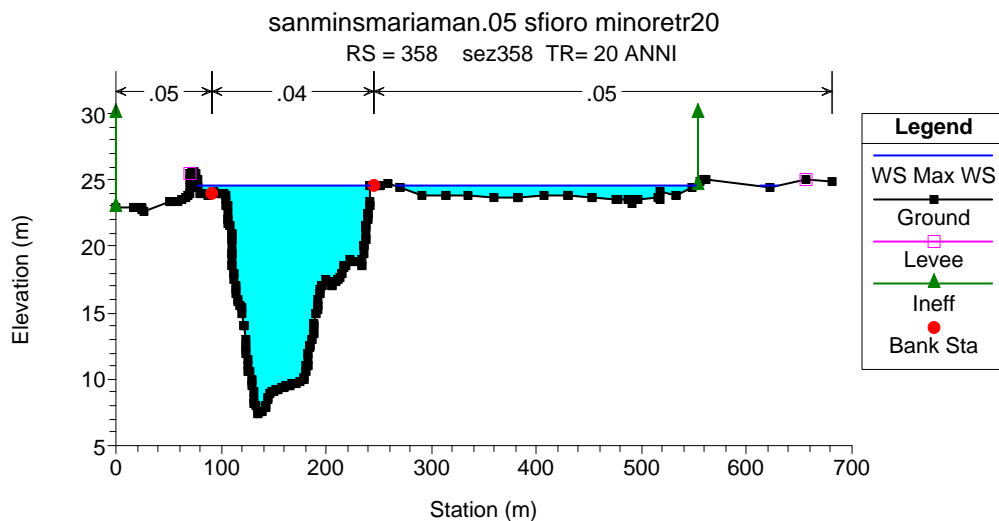
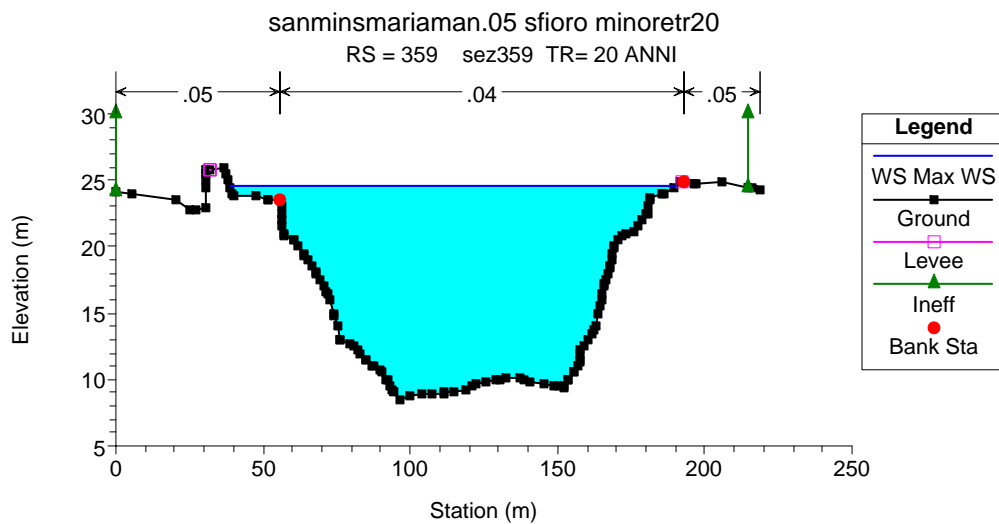
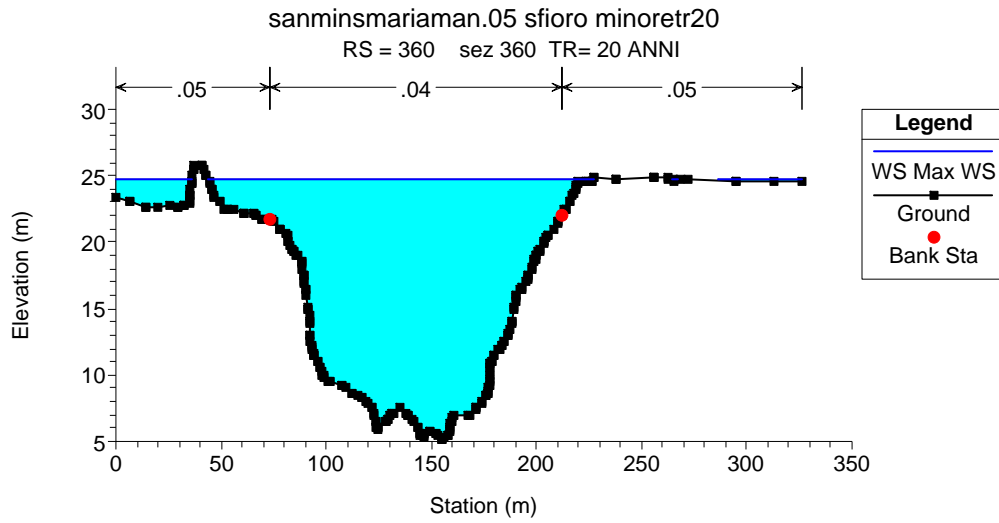


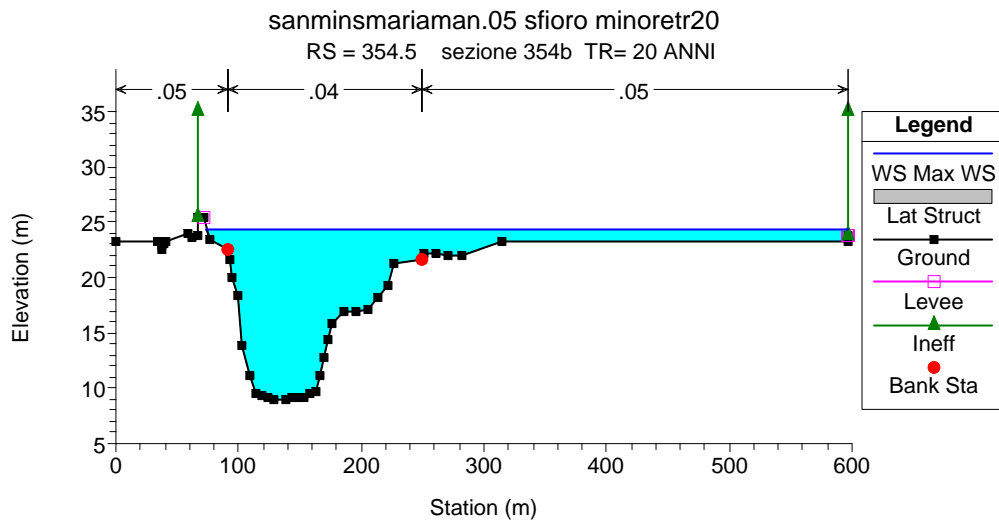
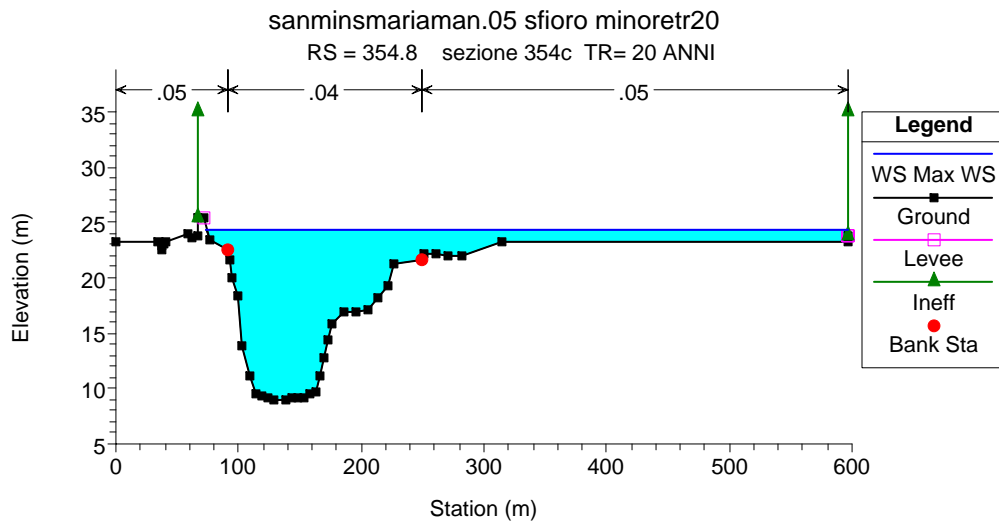
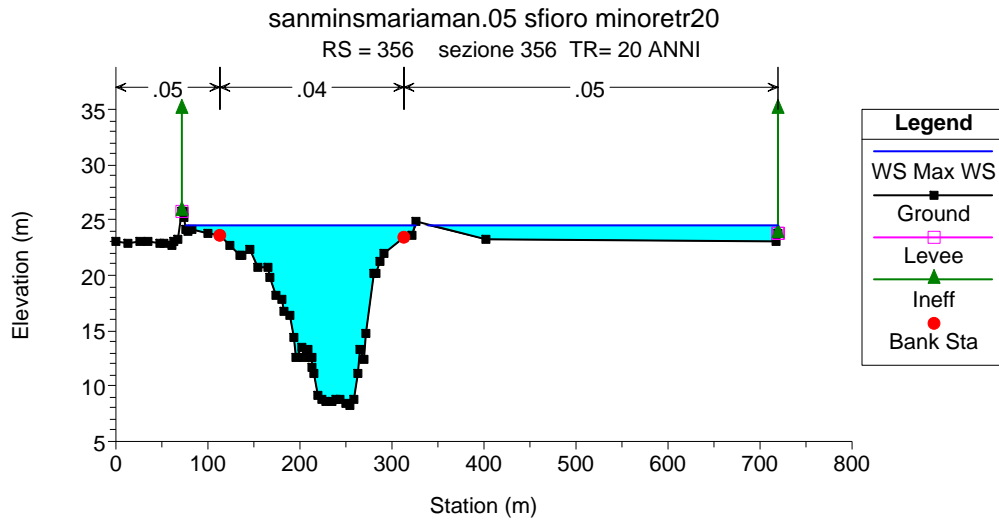


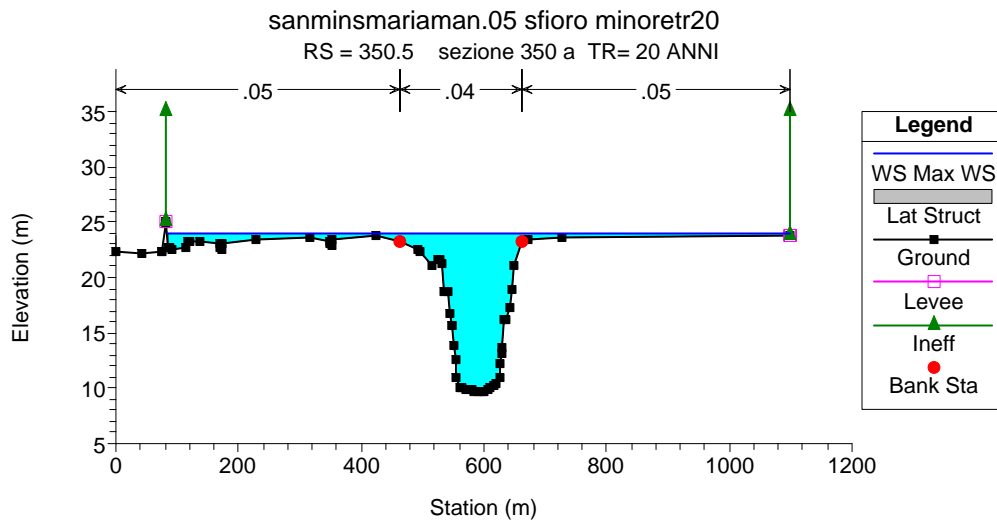
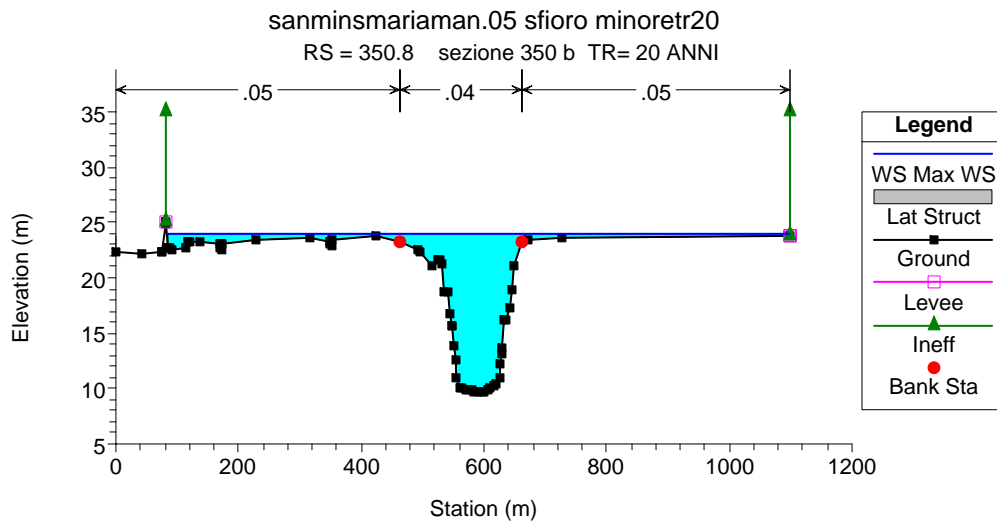
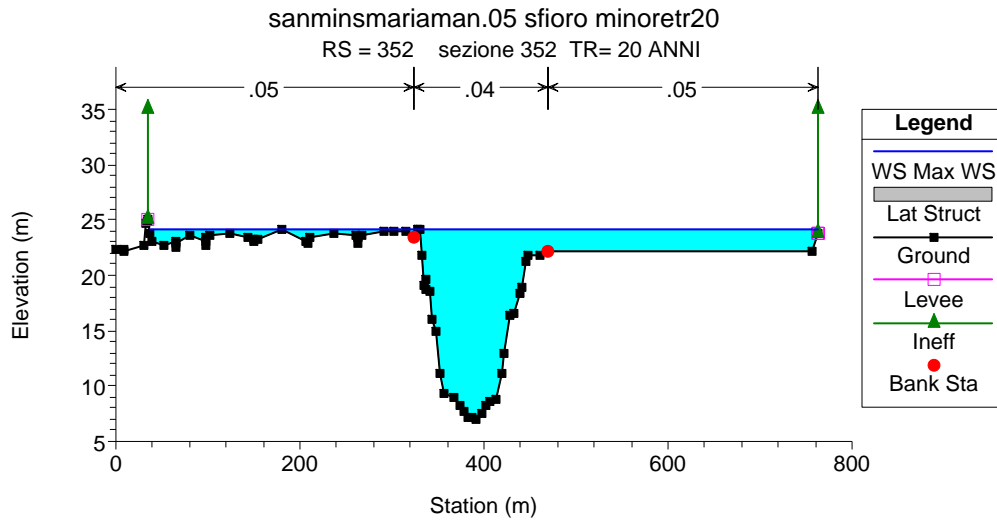


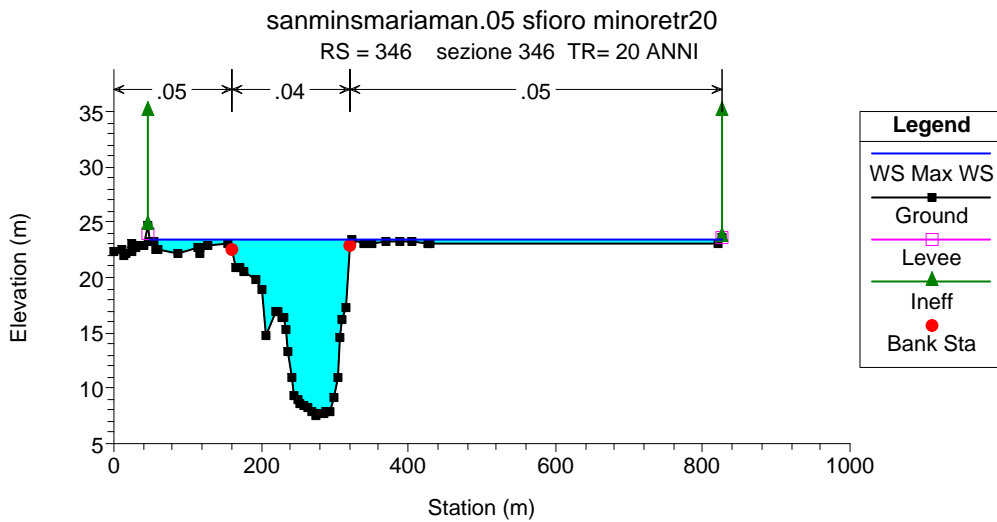
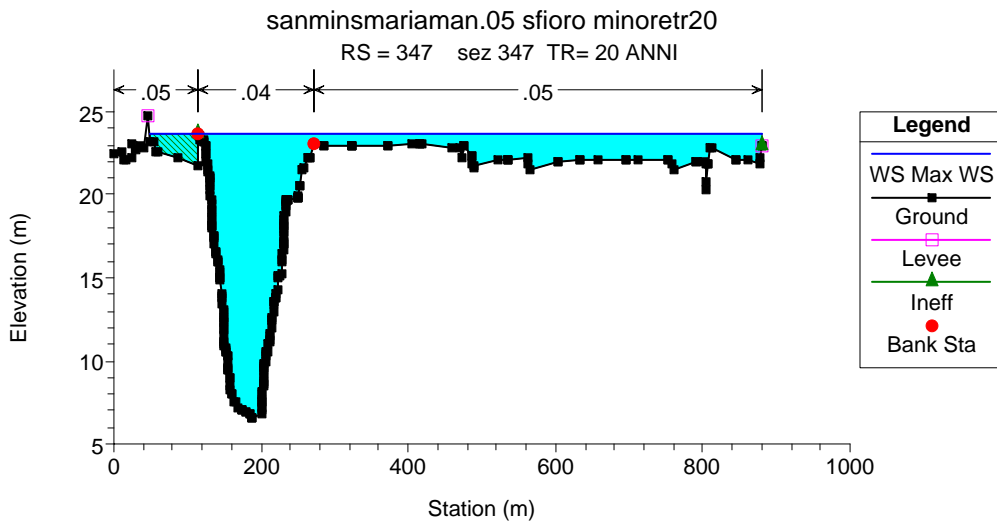
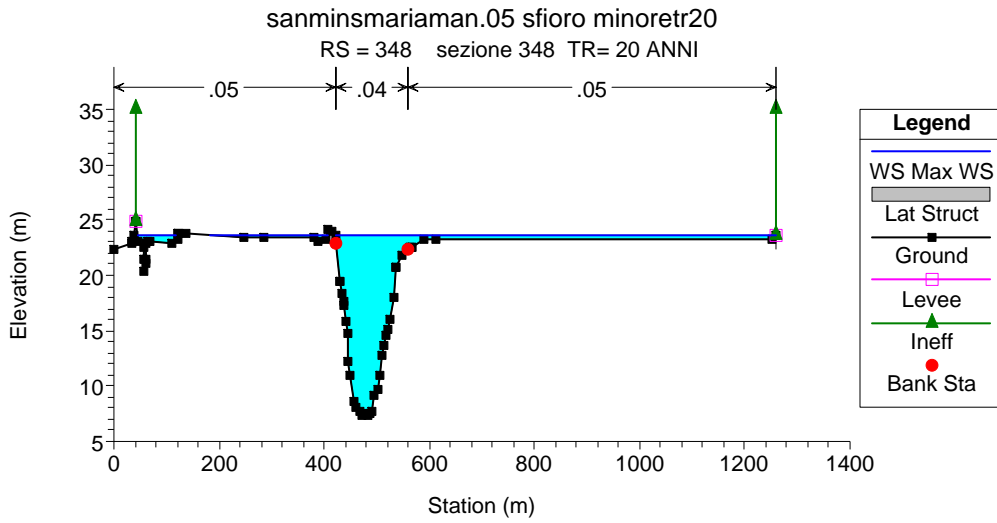


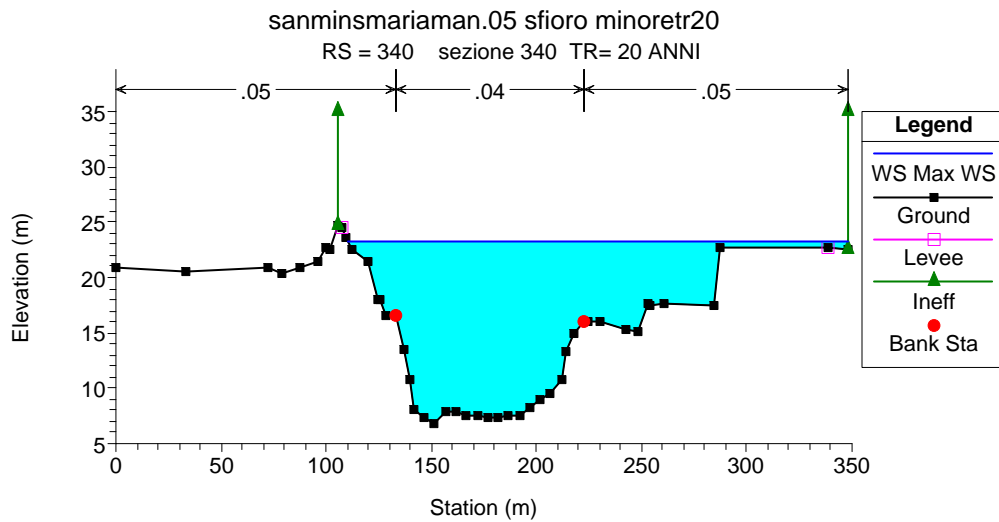
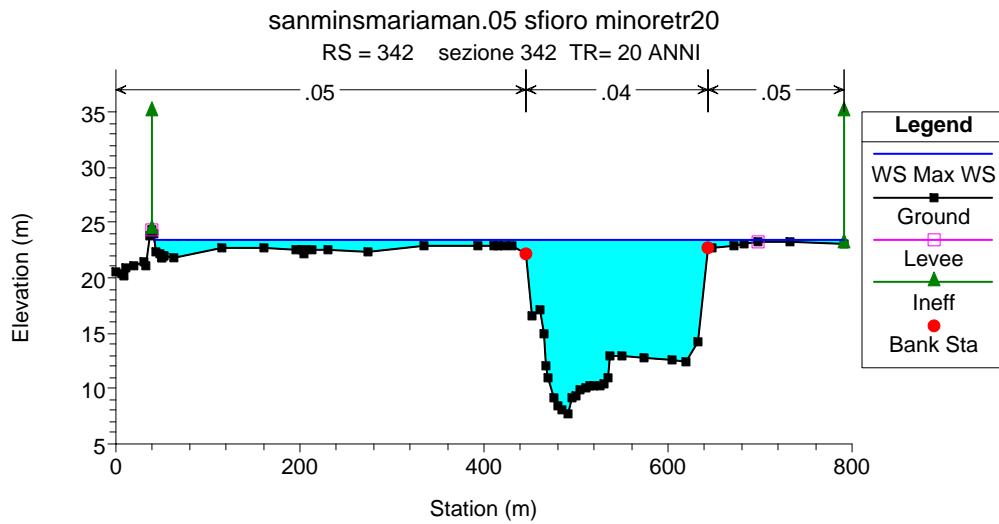
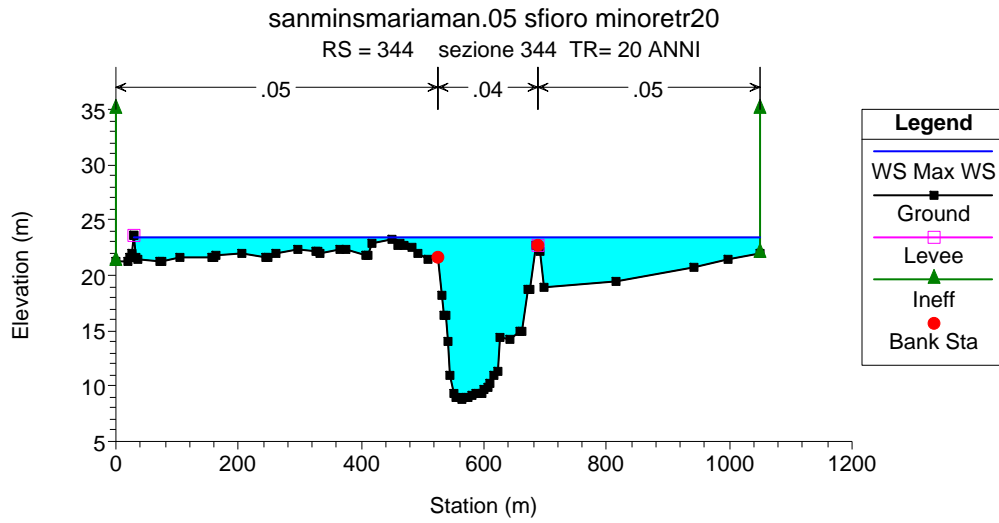




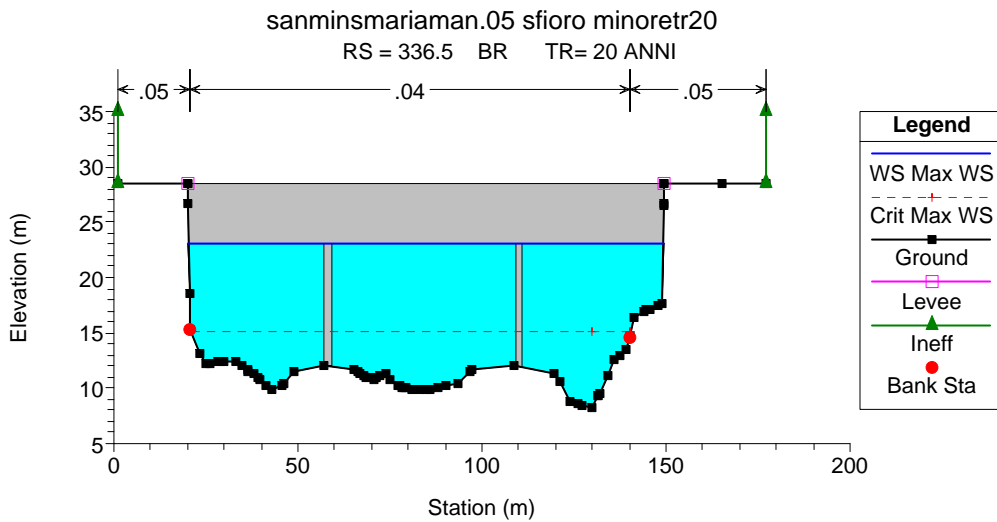
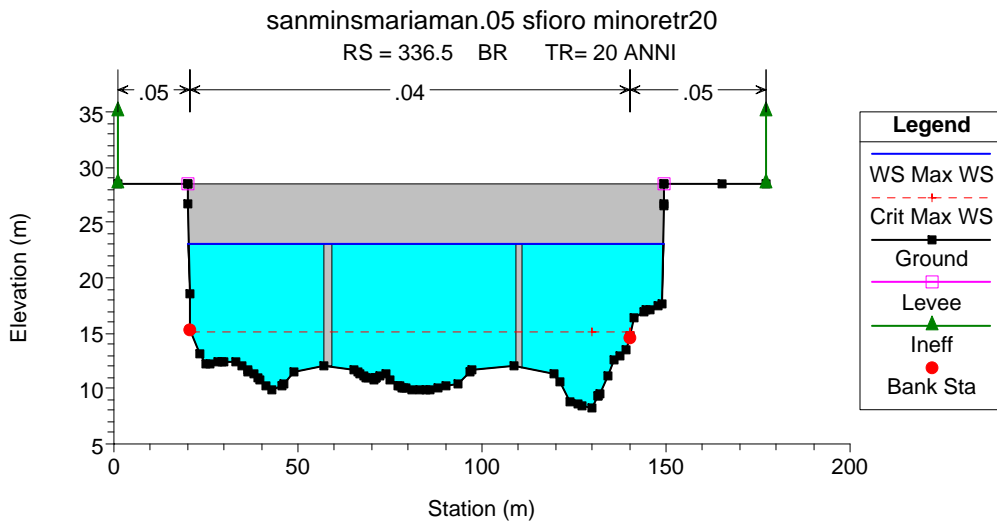
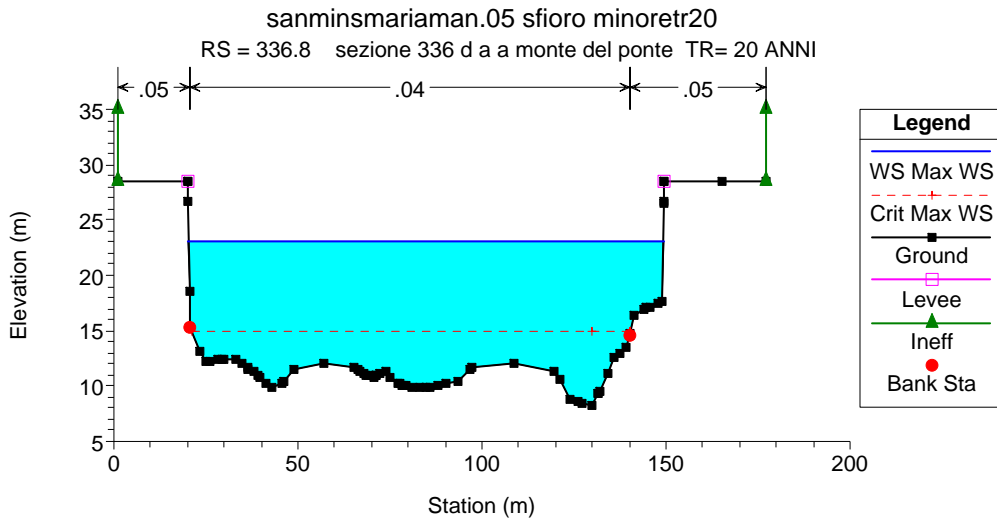


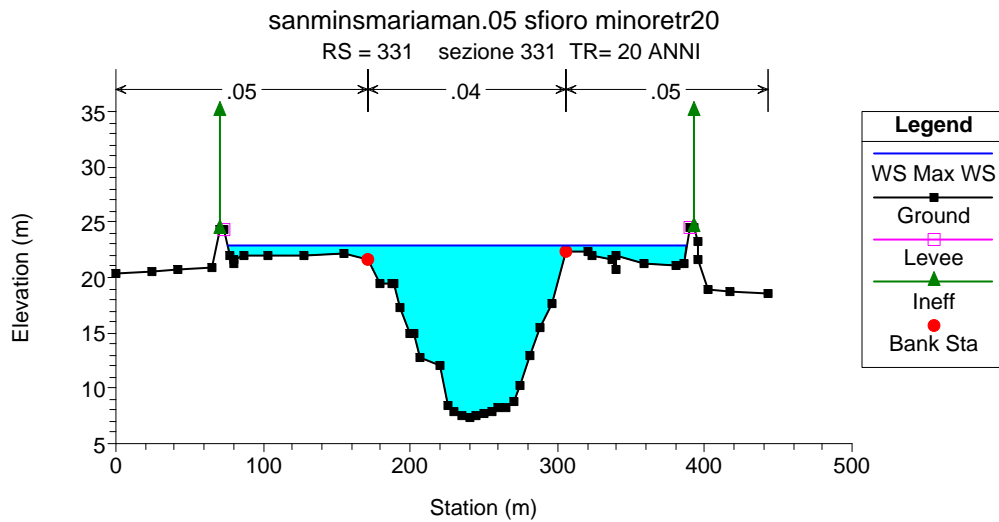
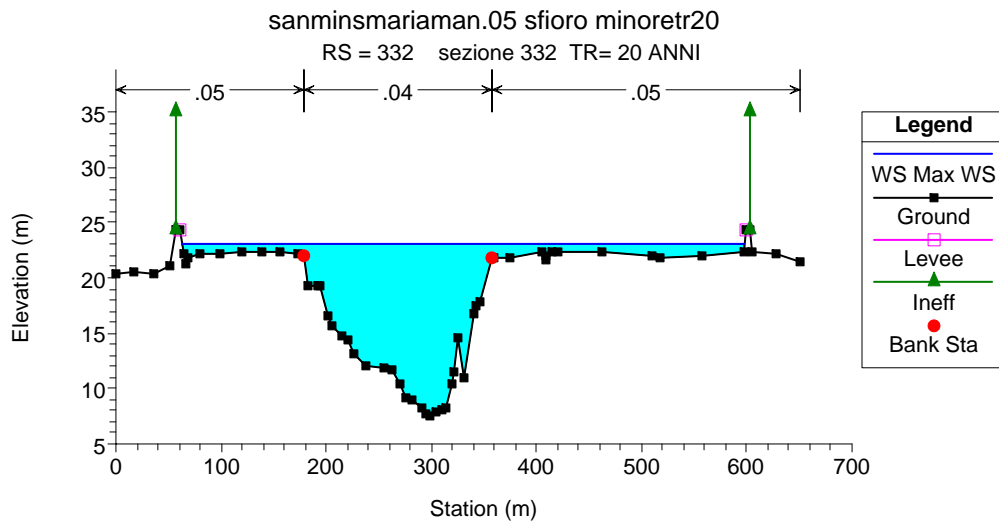
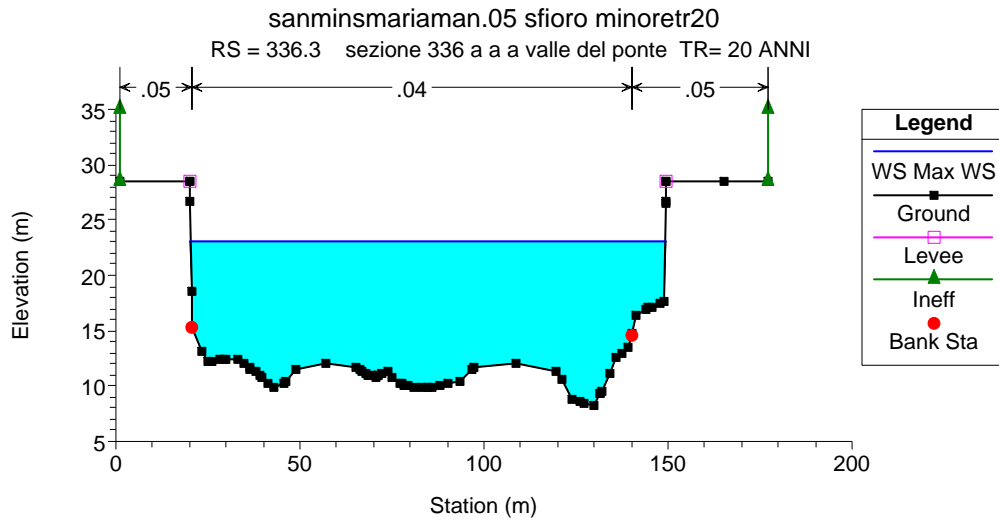


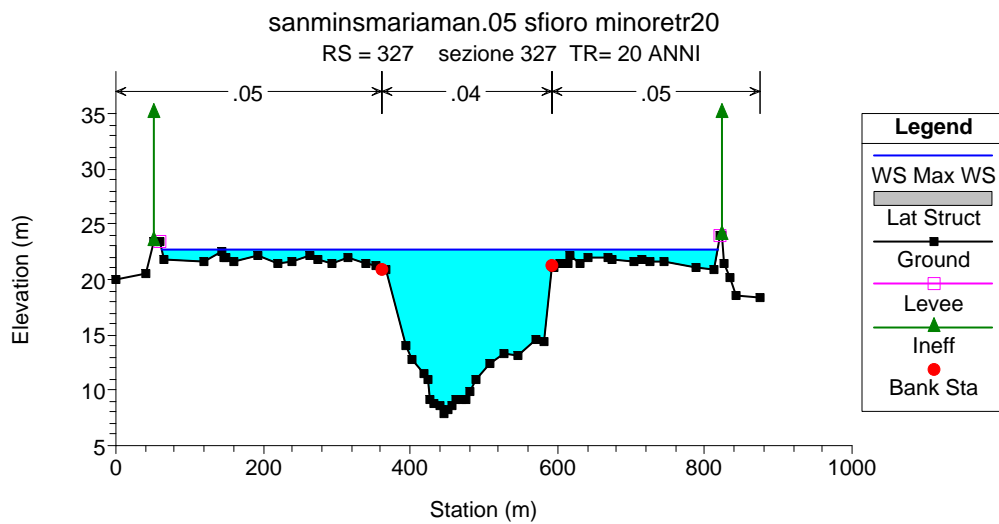
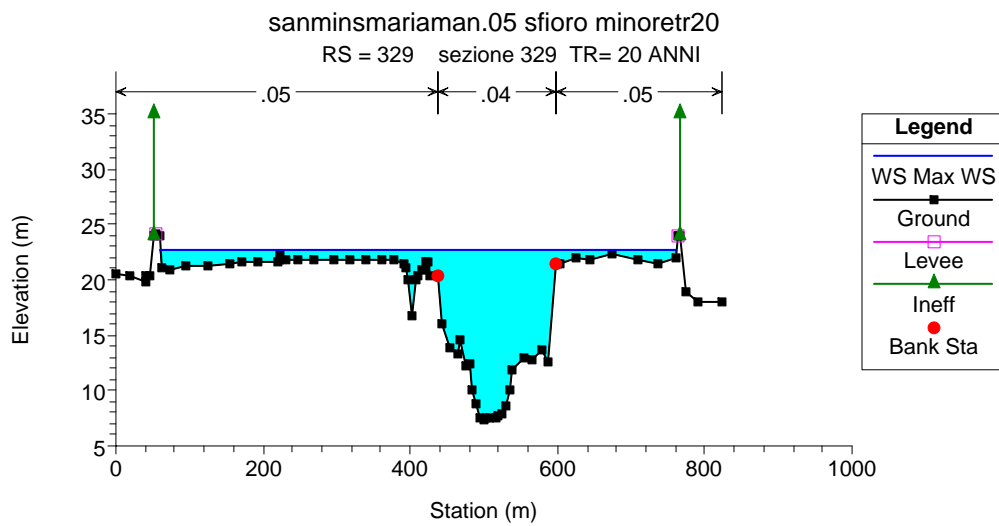
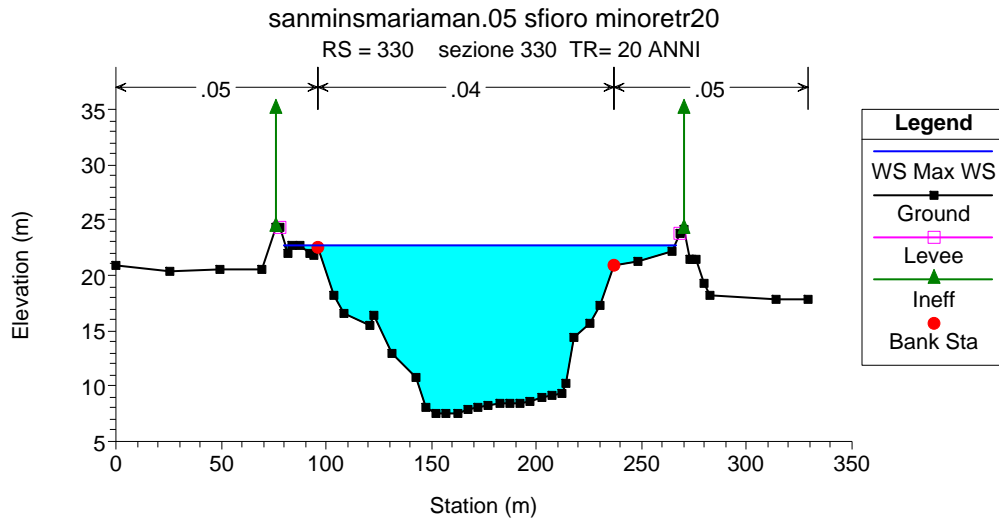


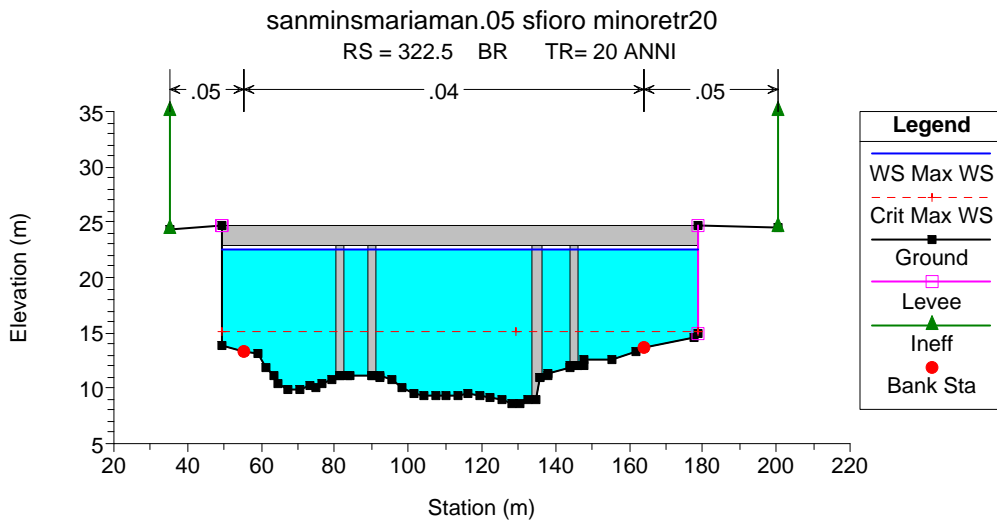
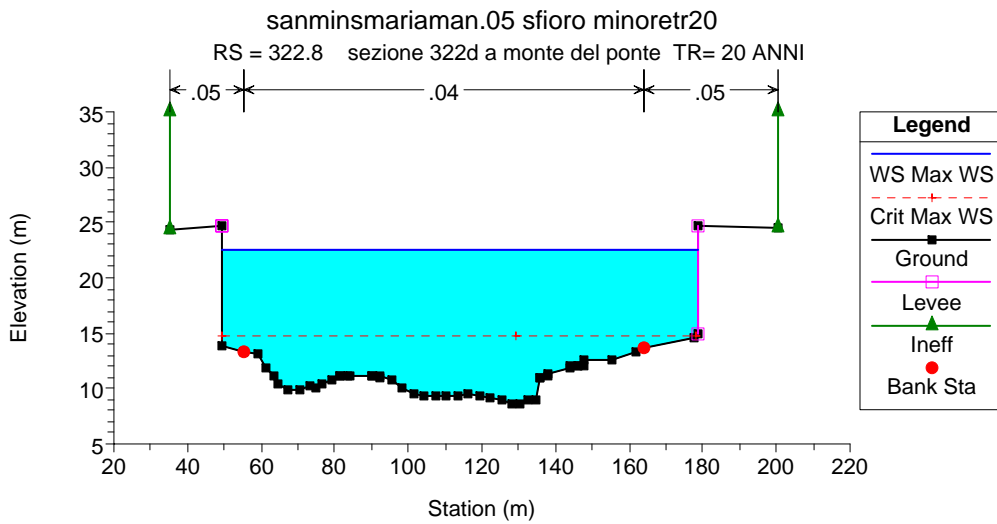
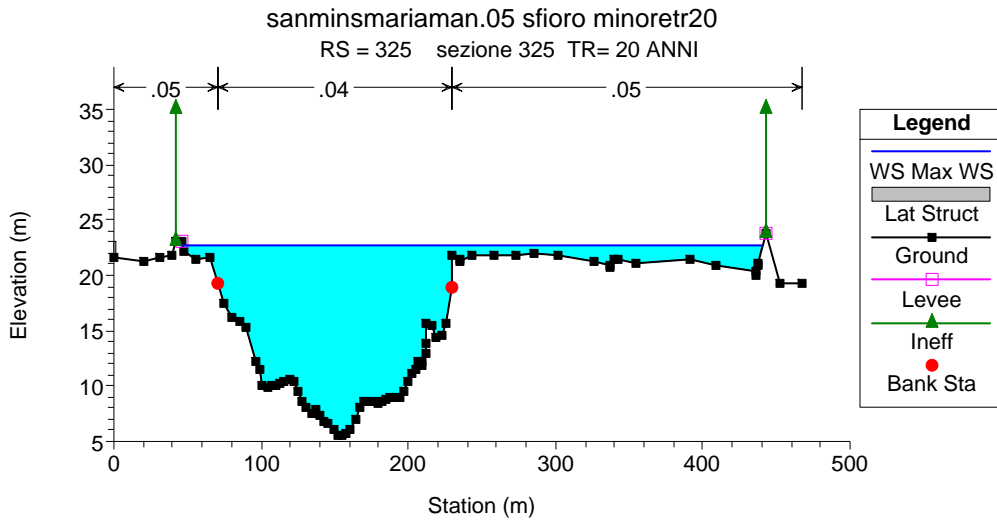


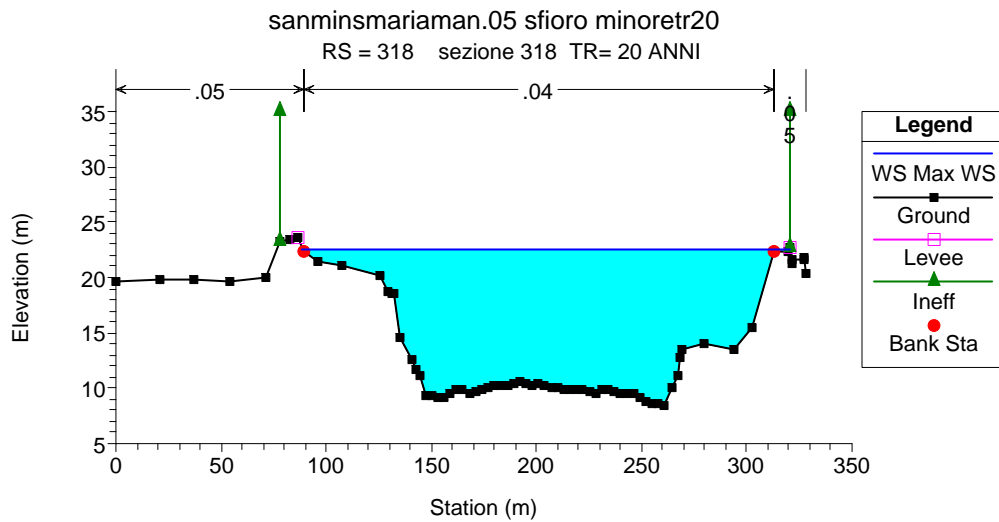
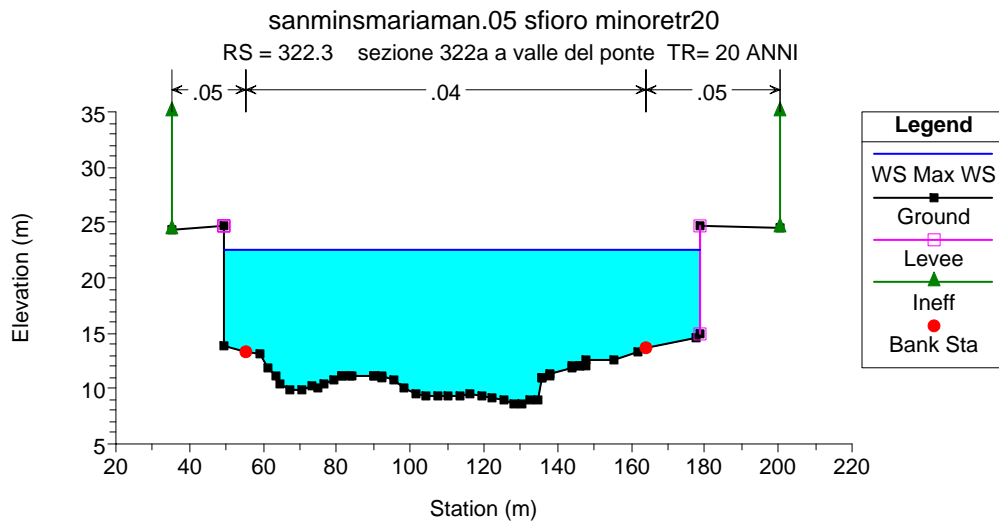
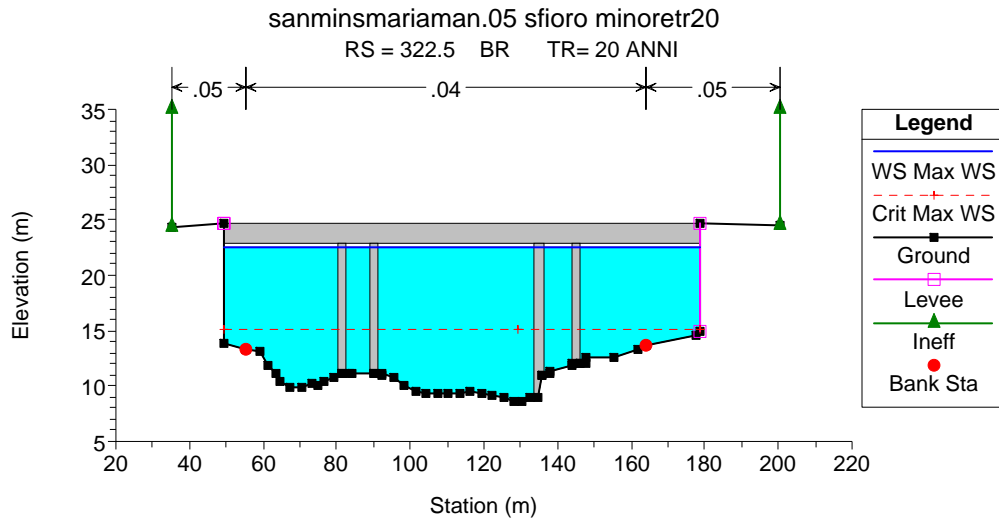


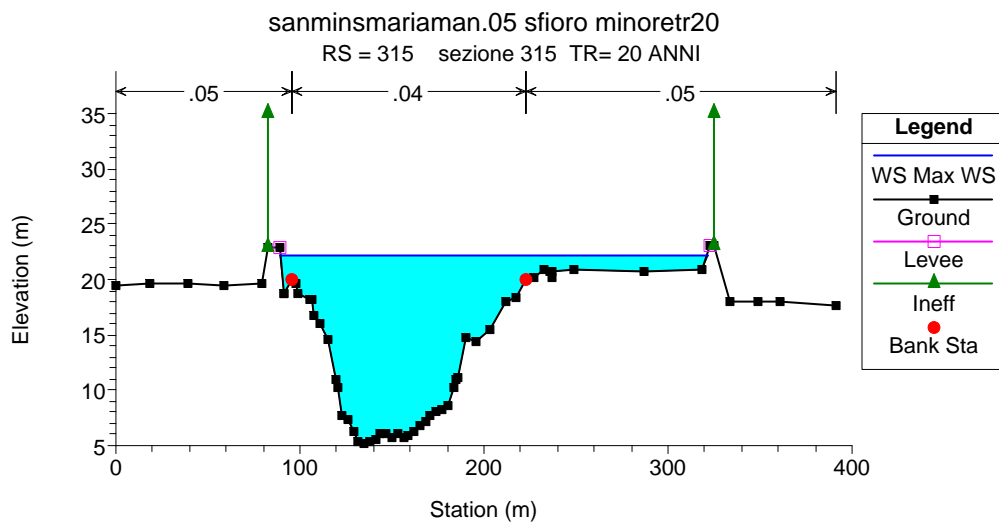
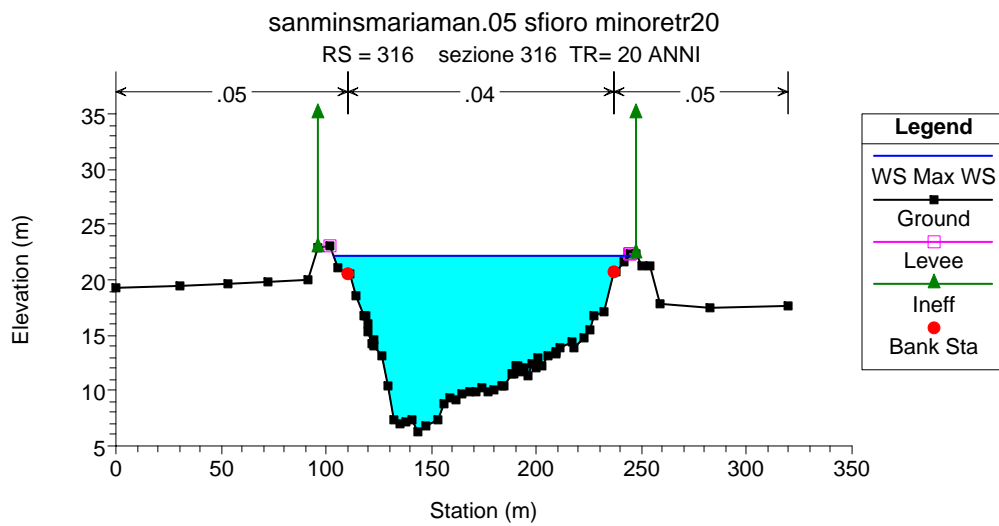
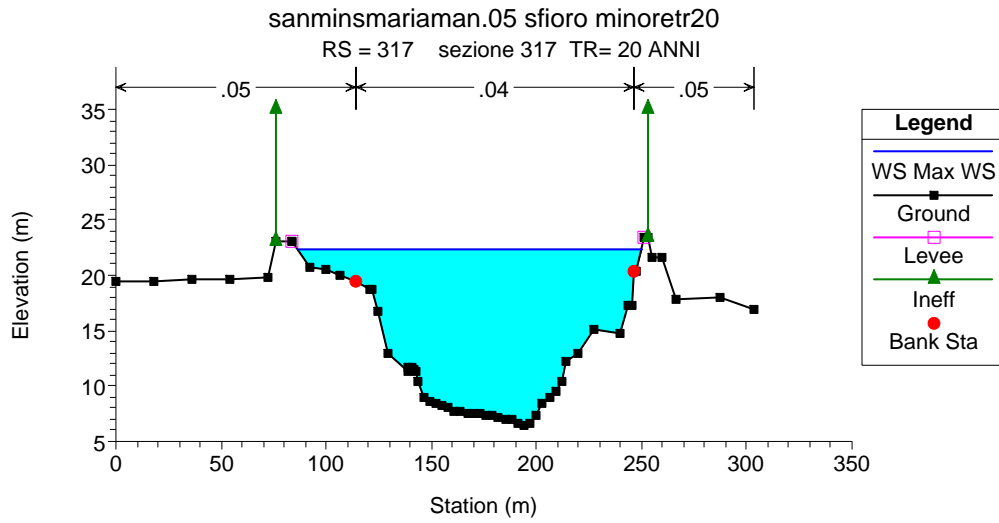


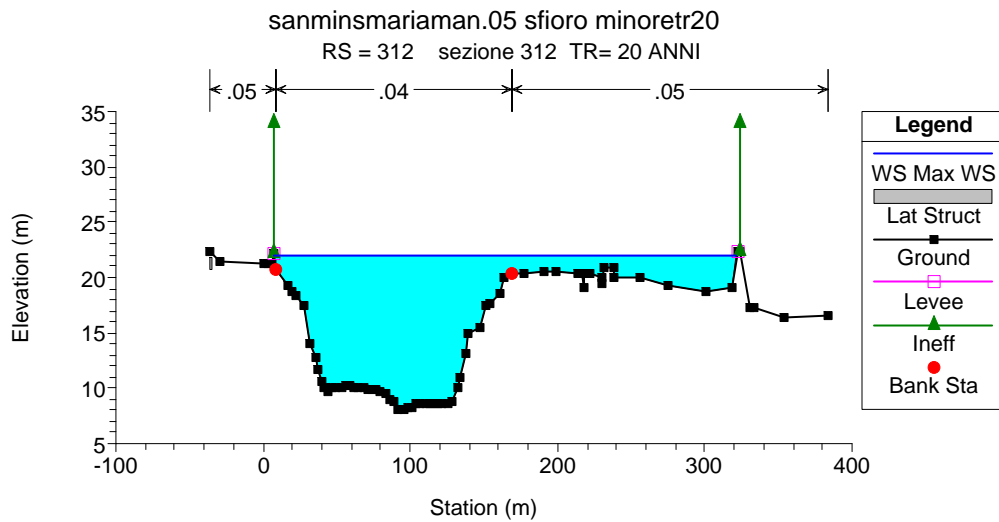
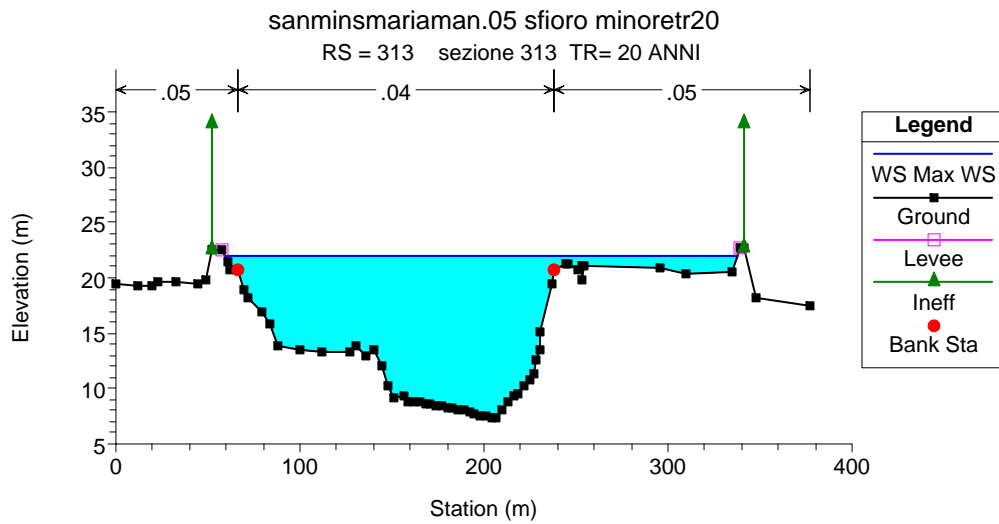
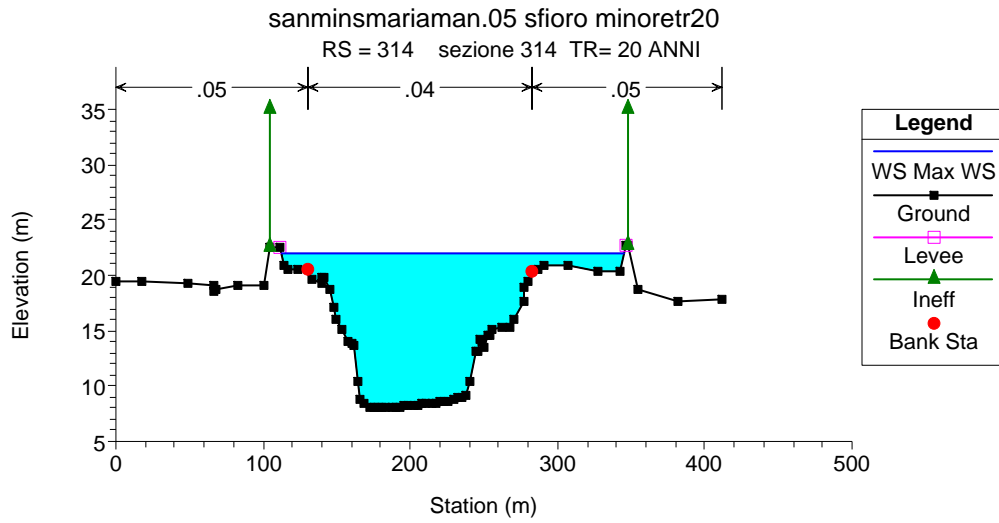


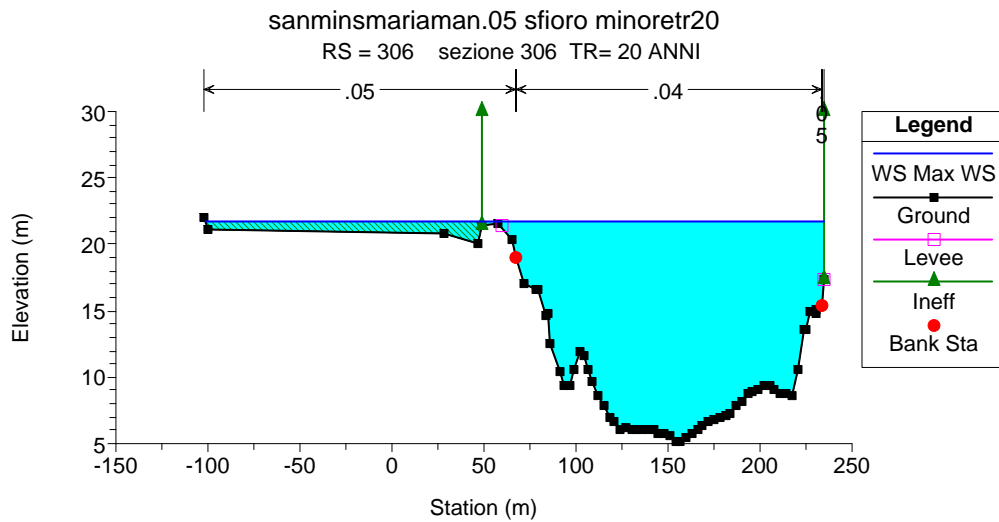
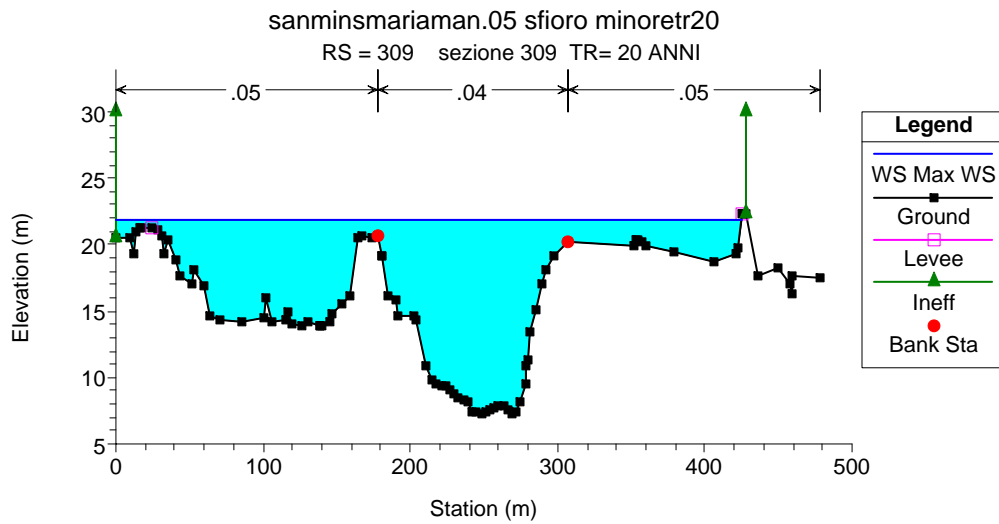
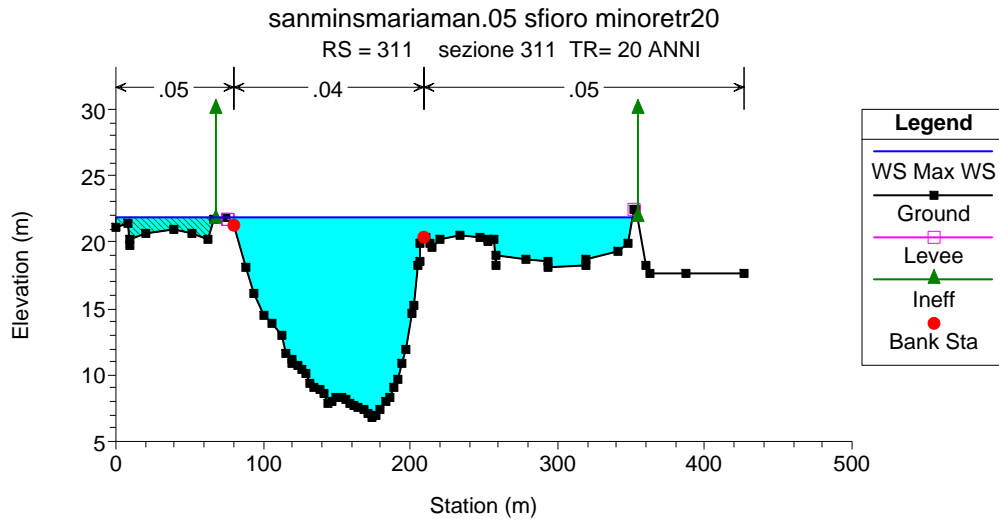




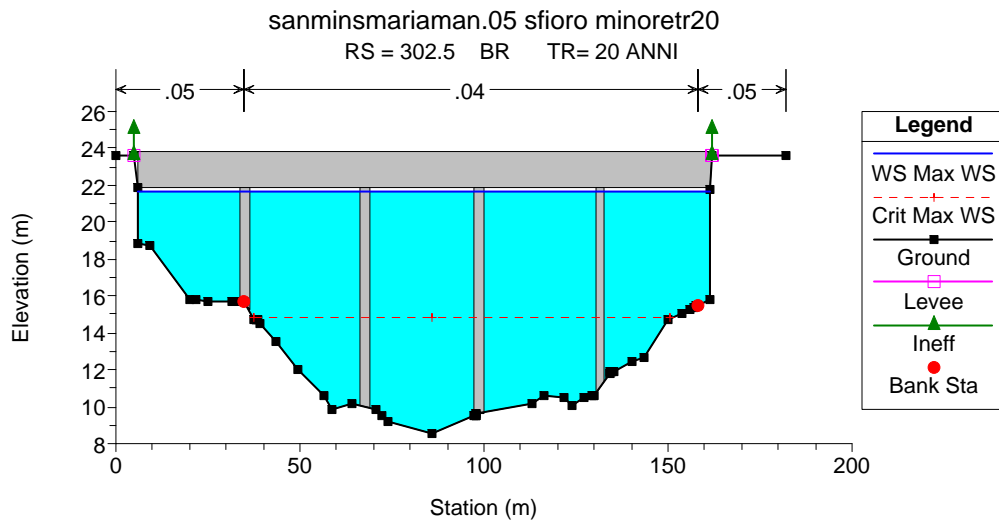
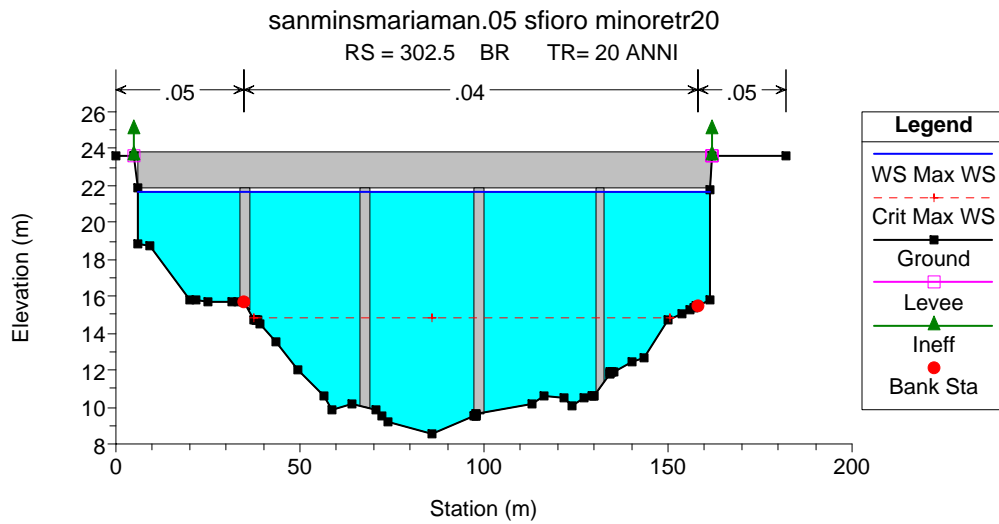
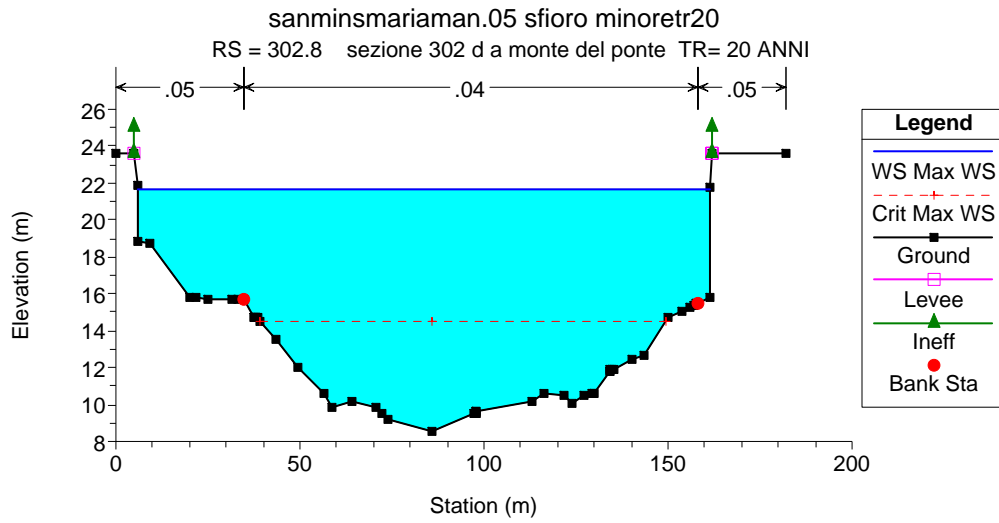


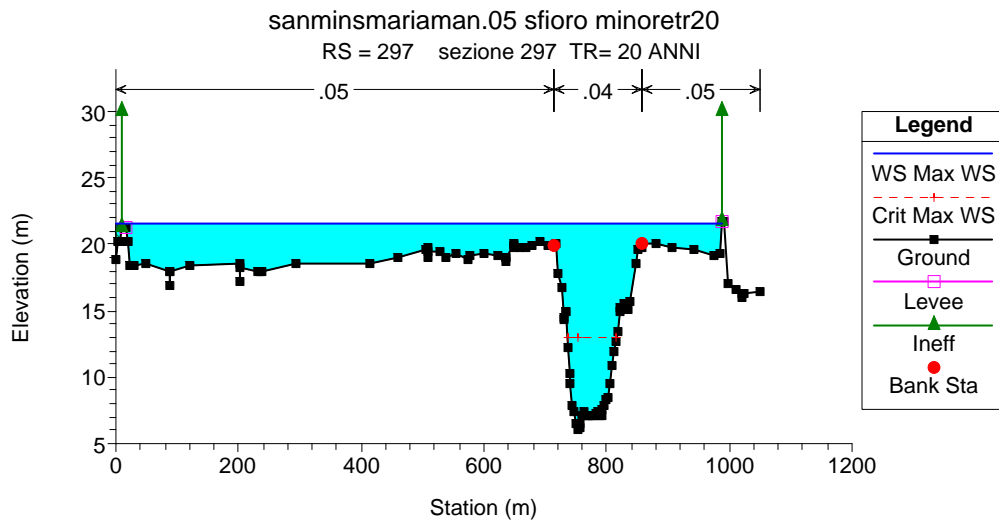
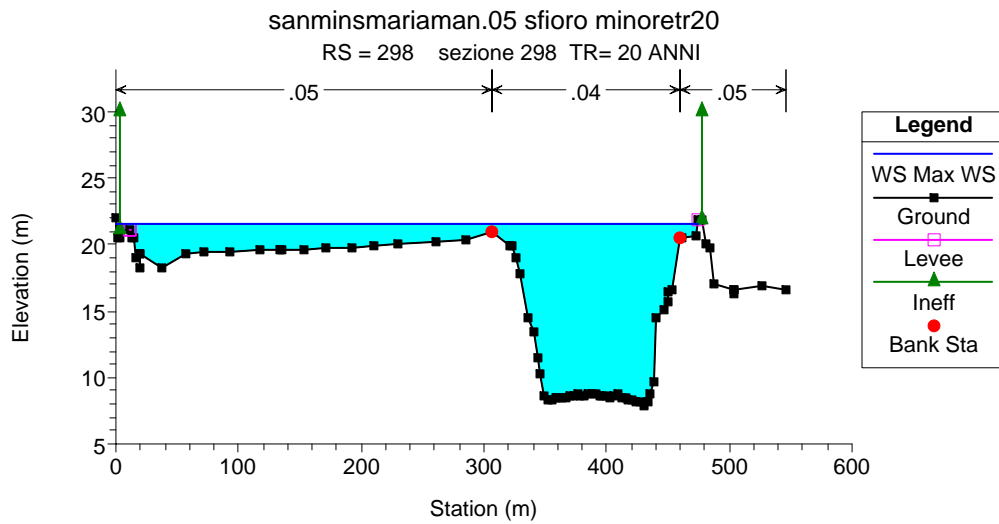
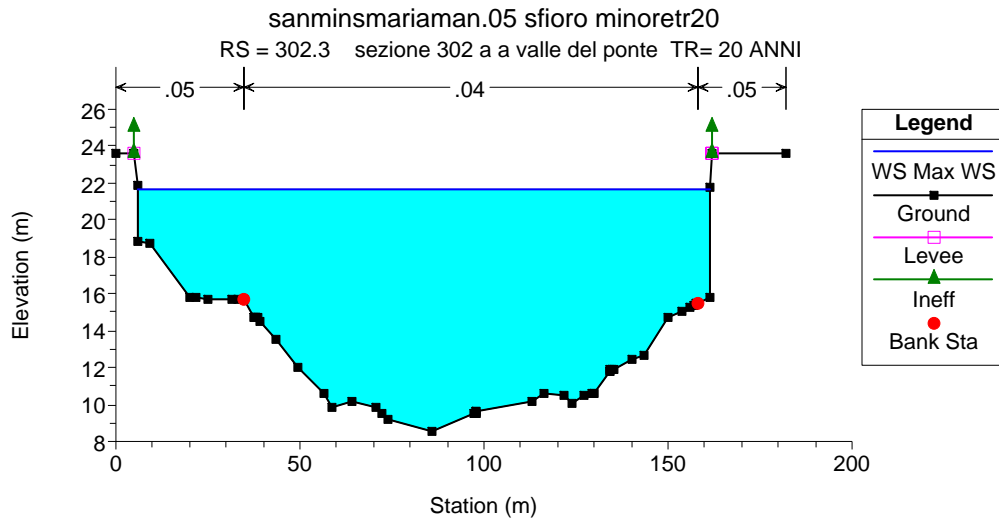


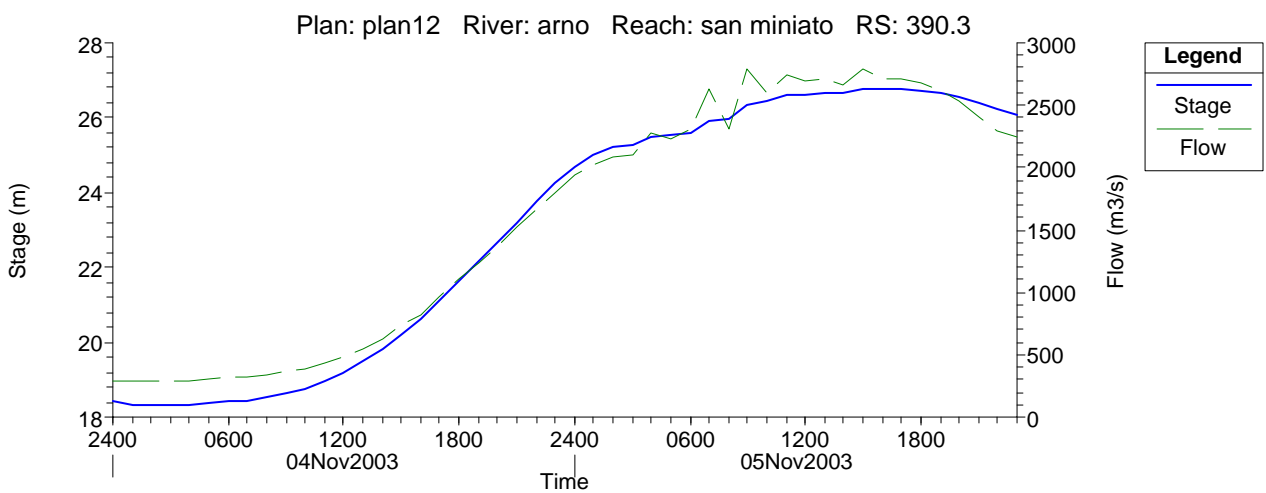
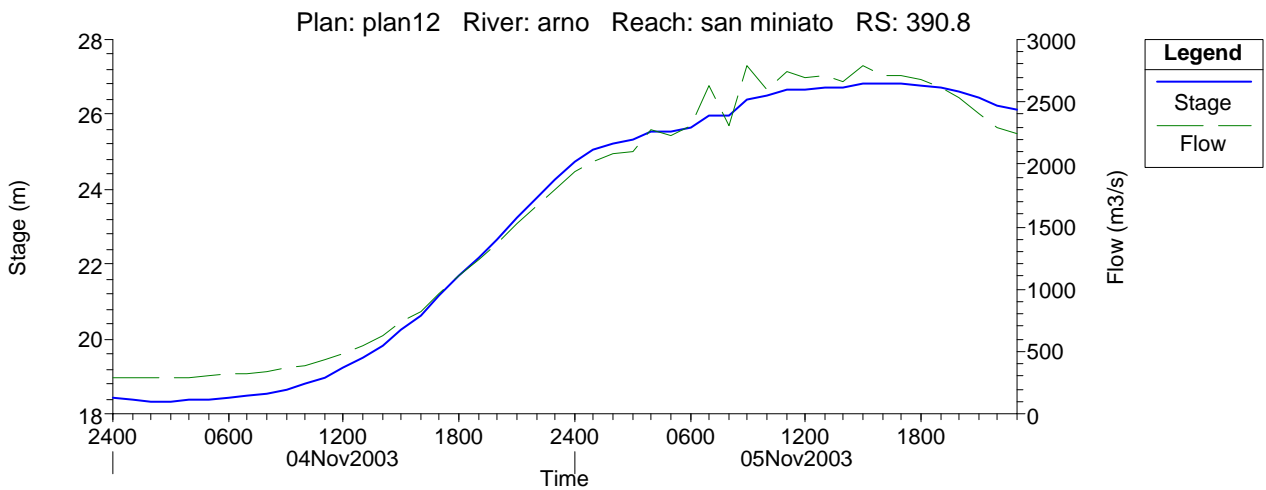
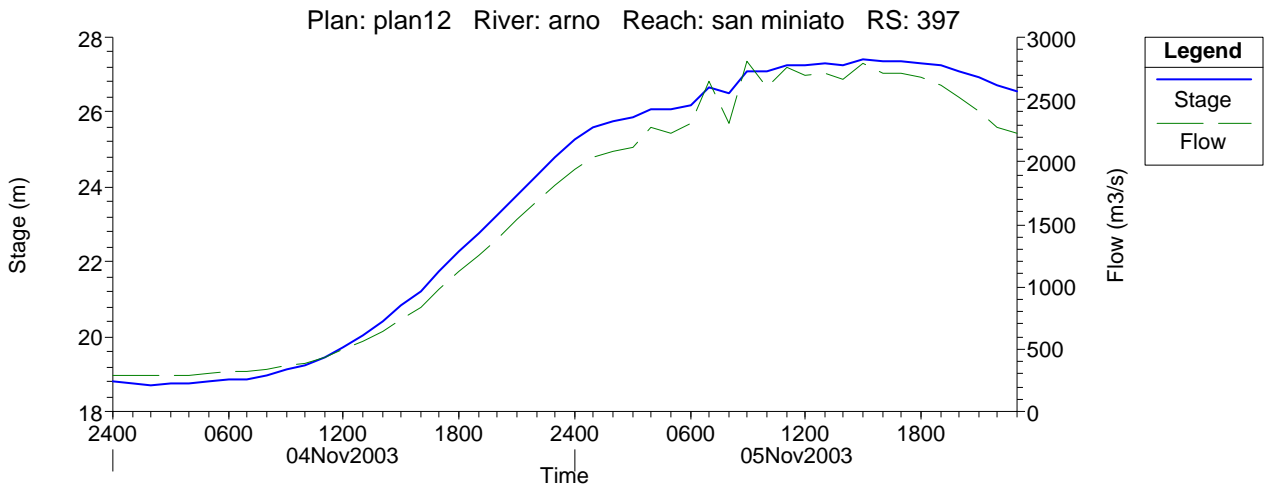


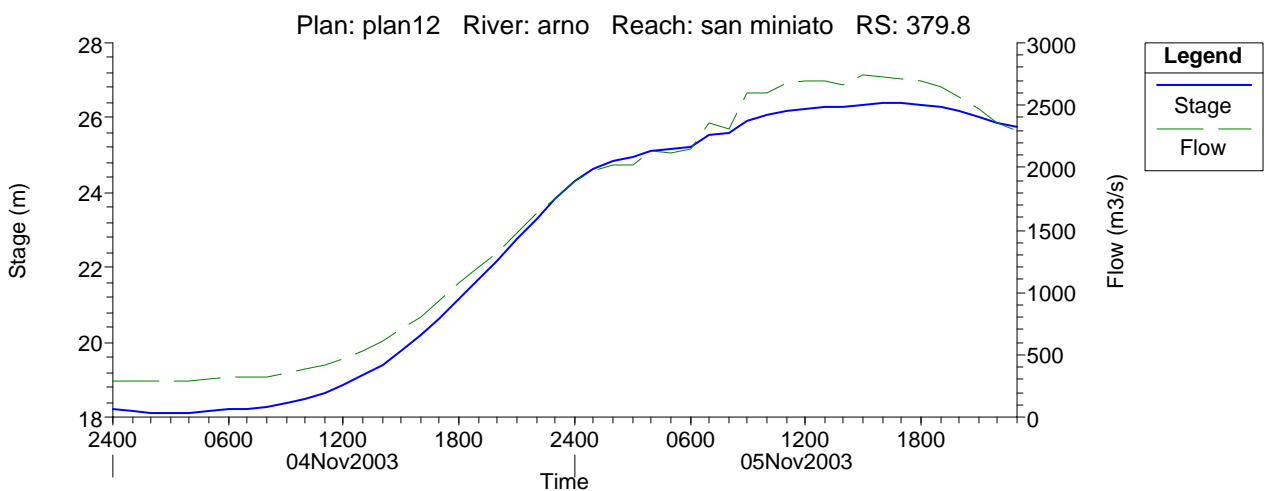
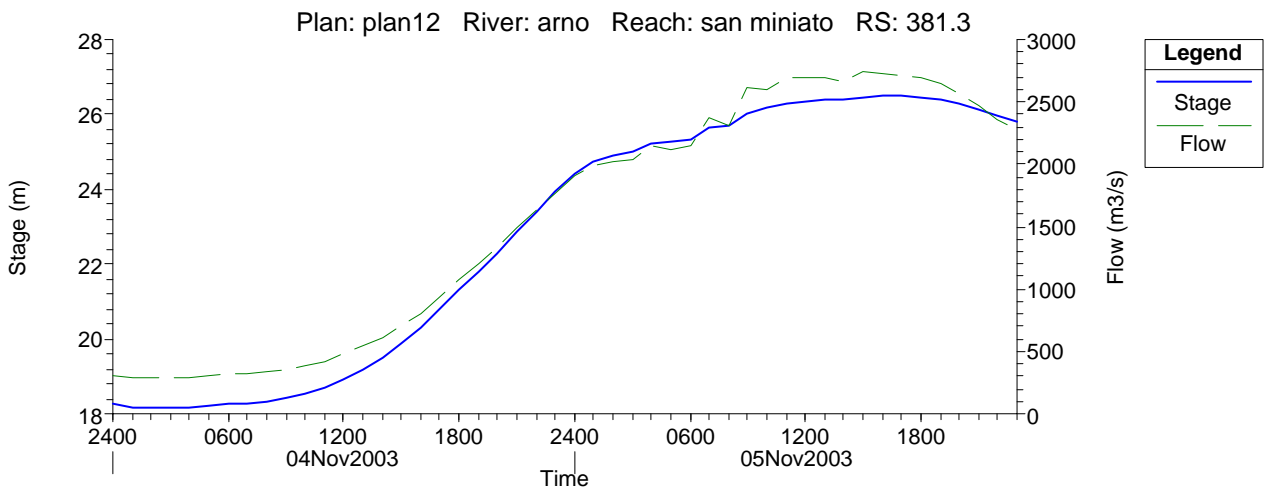
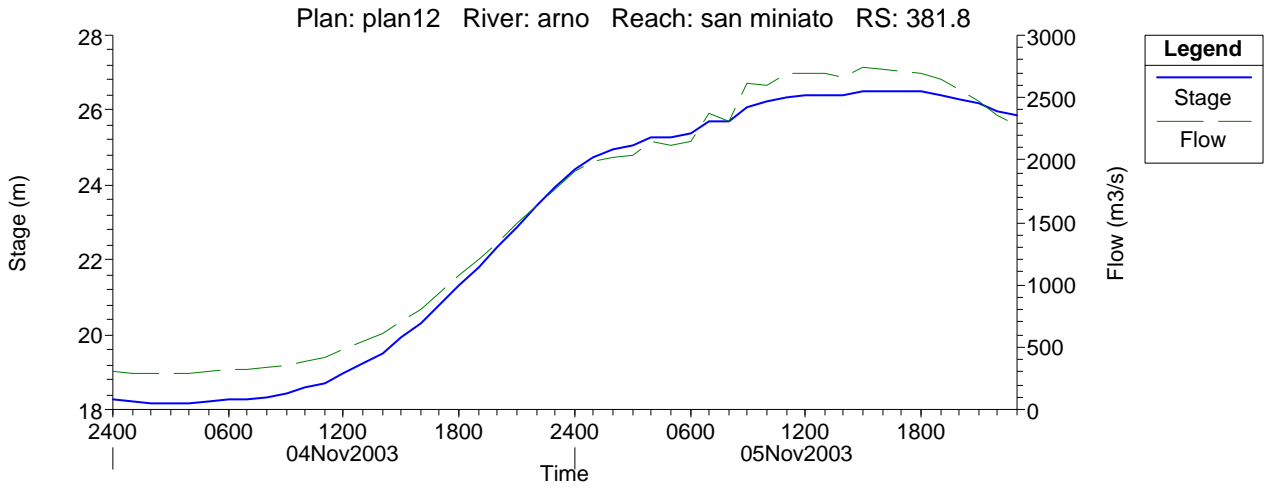


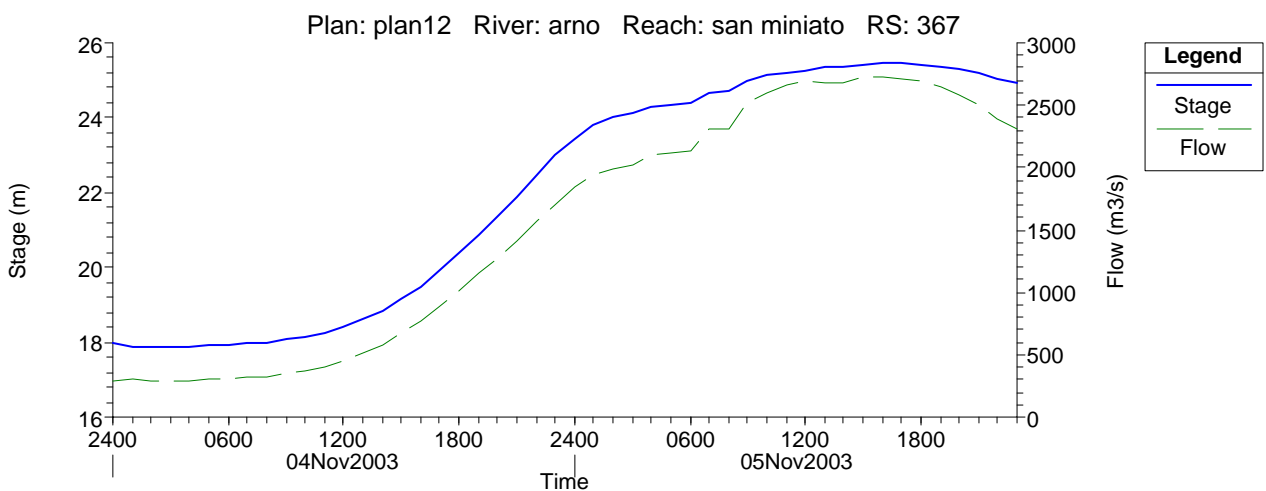
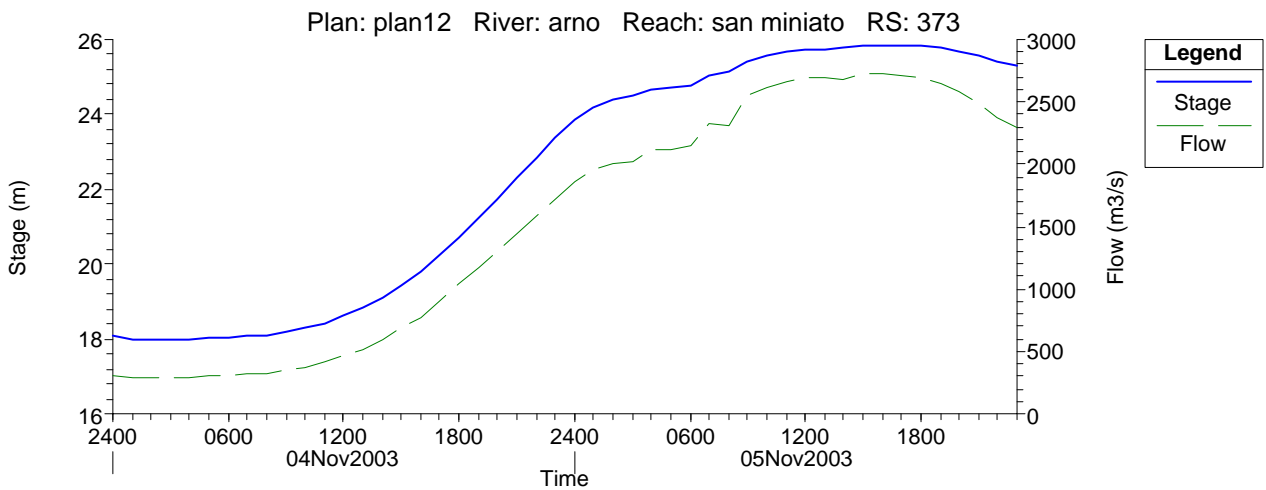
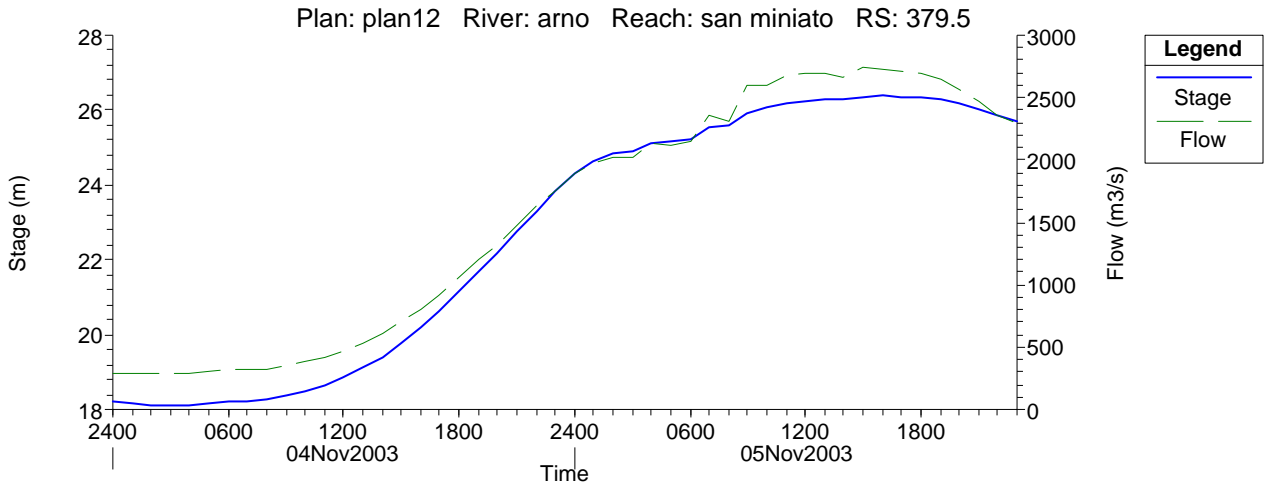


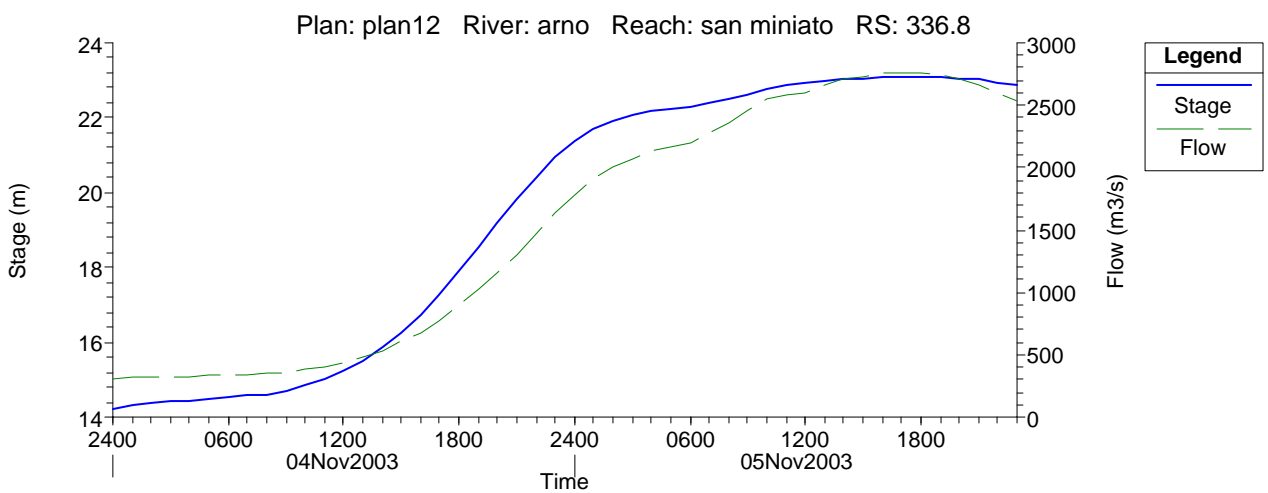
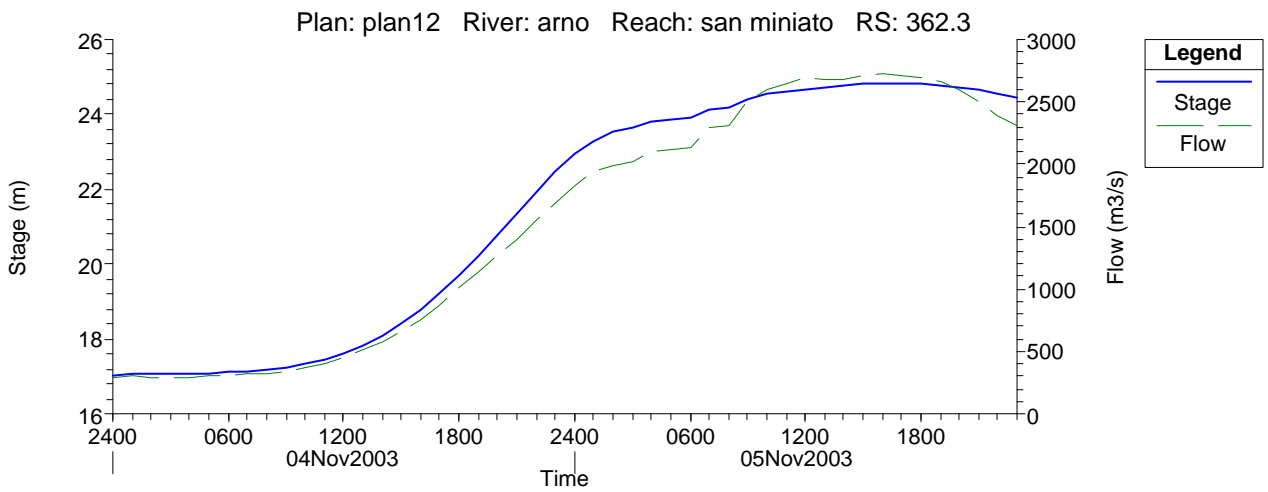
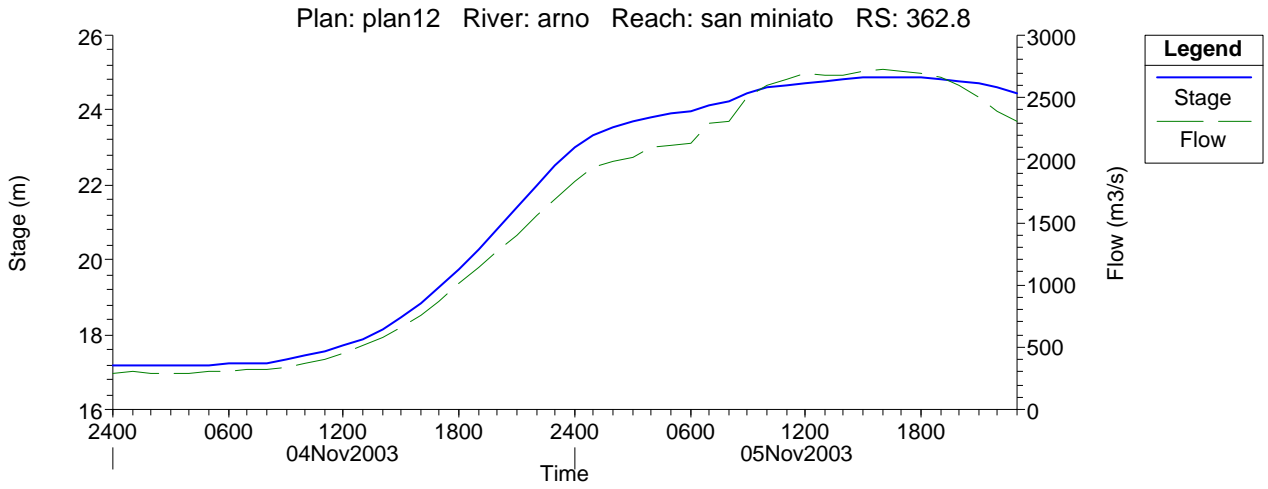


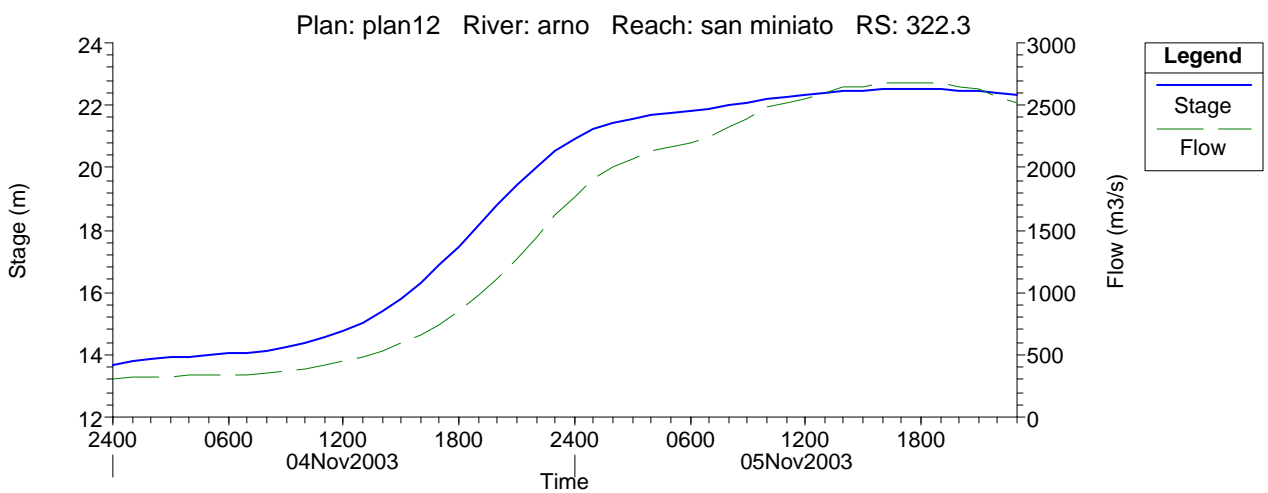
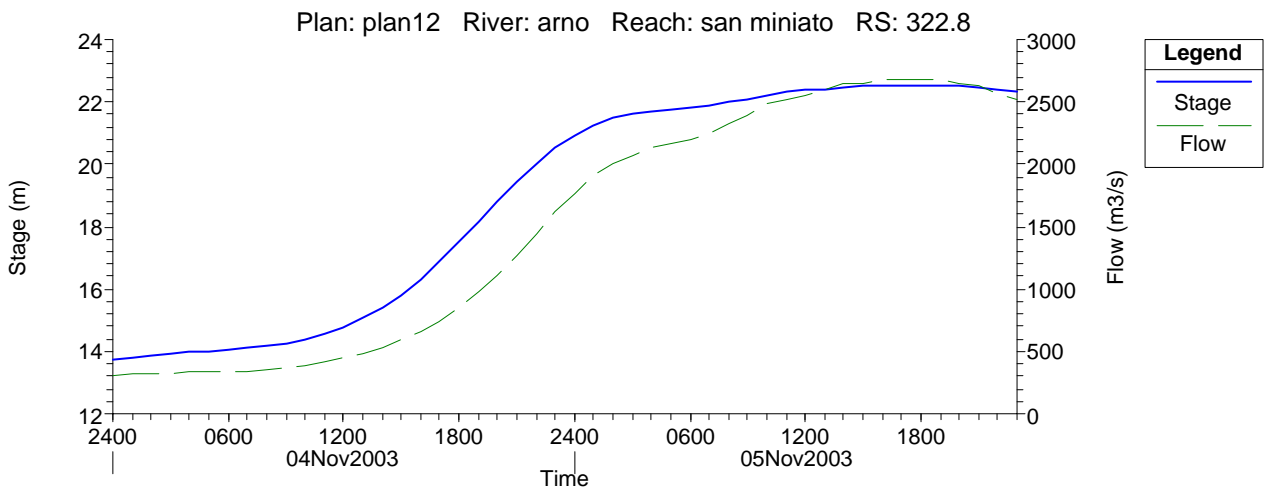
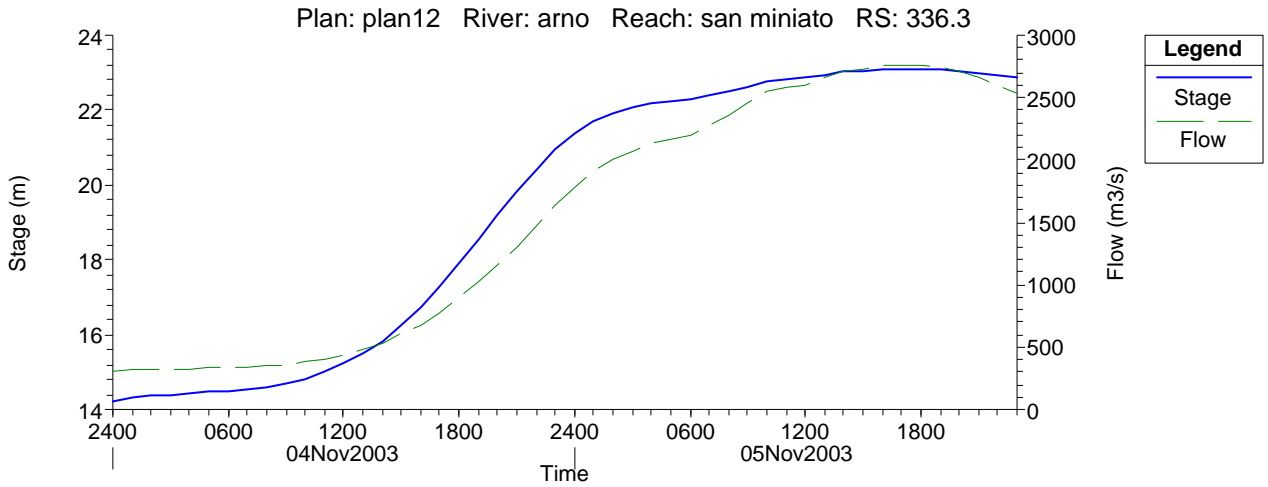


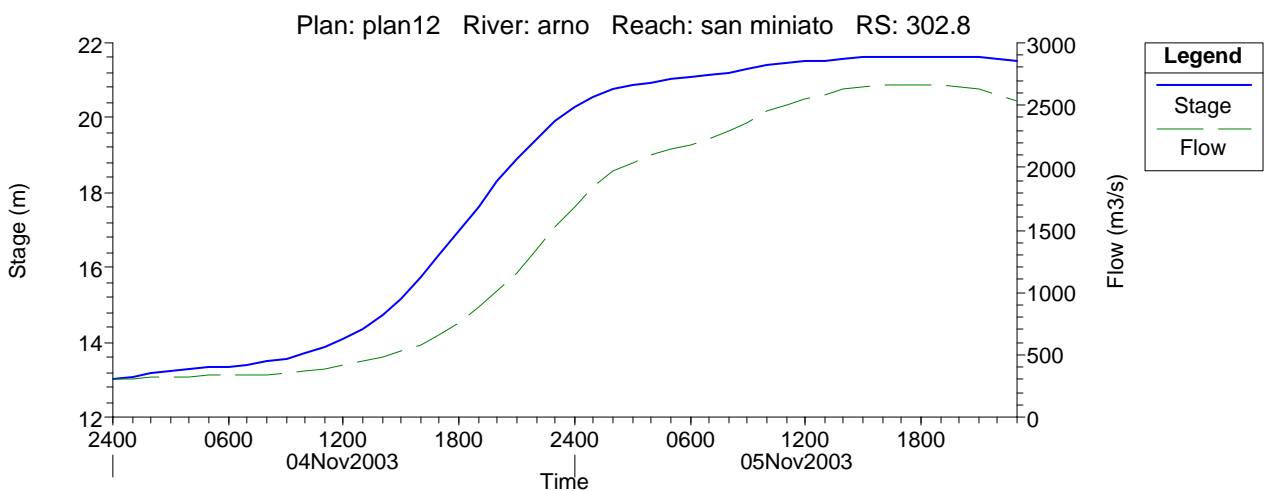
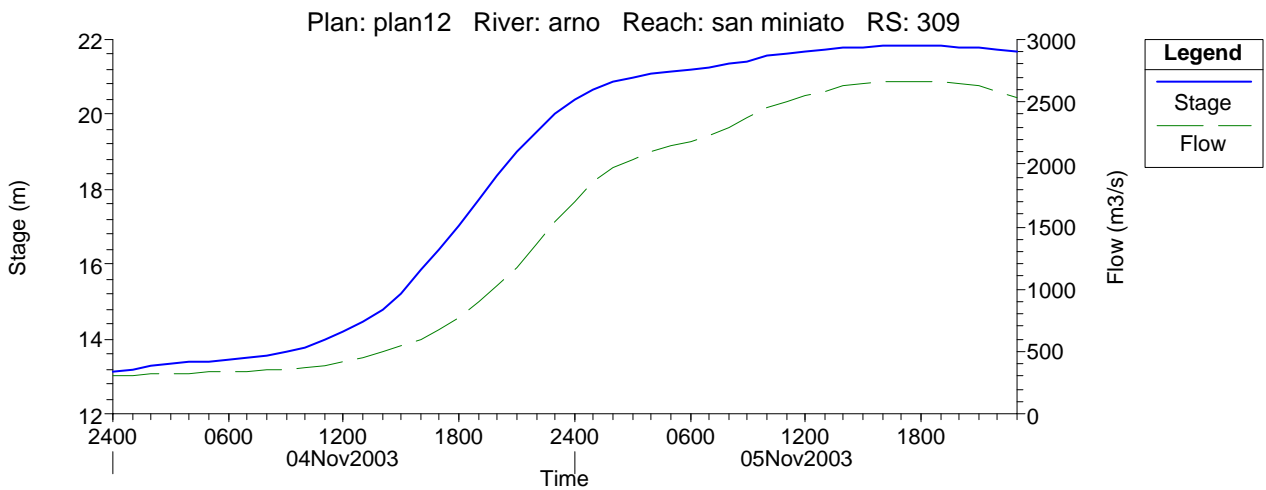
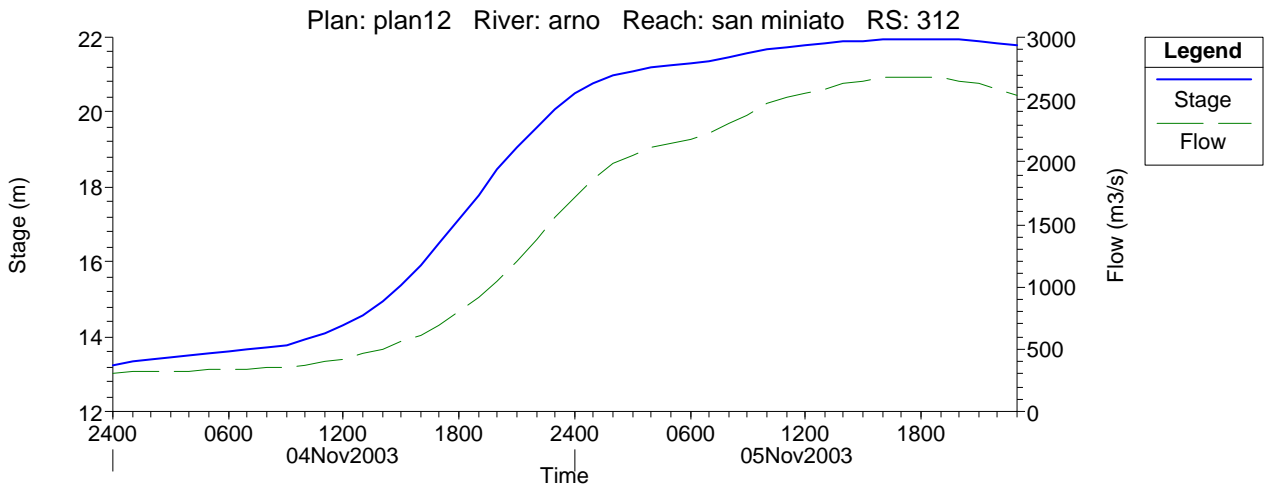




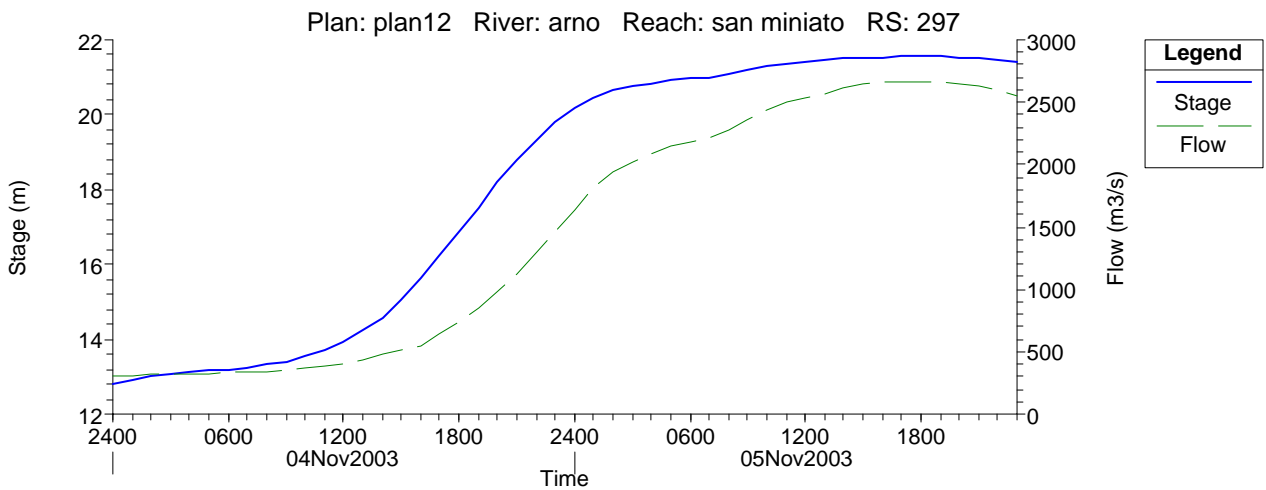
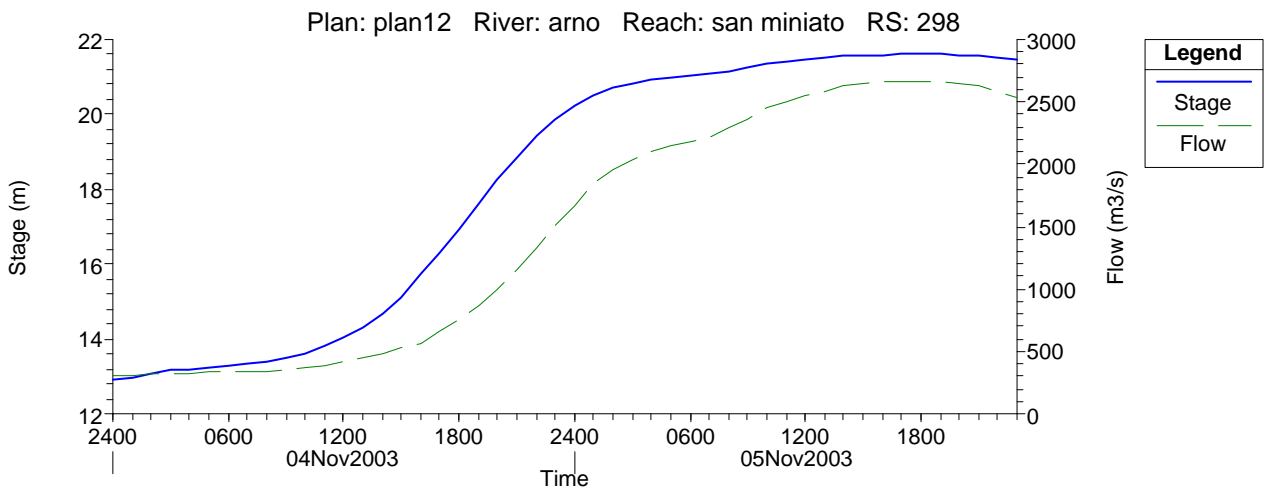
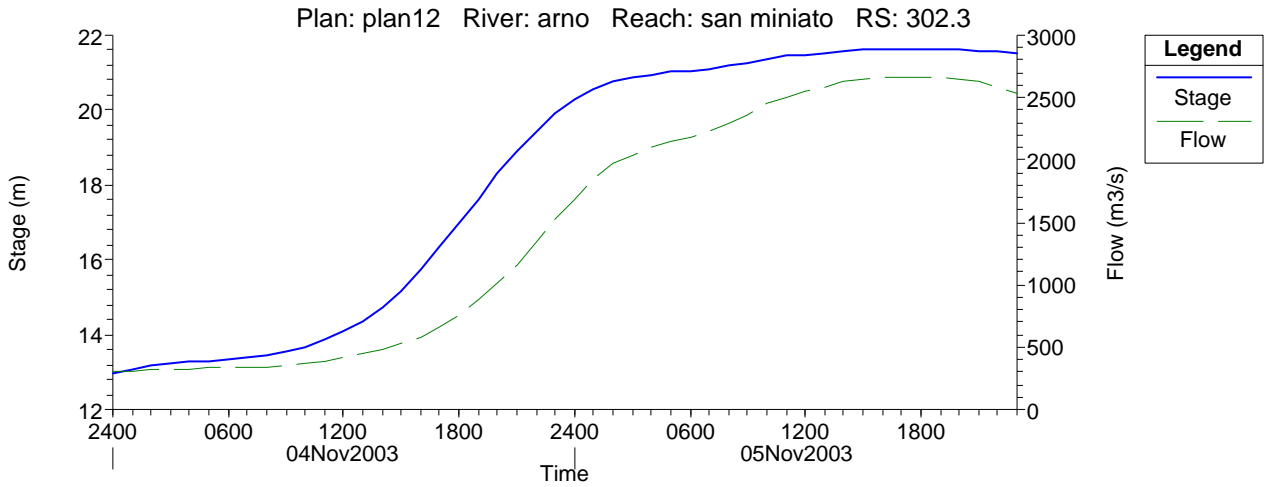














River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Top Width (m)	Froude # Chl	Length Chnl (m)	L. Levee Frbrd (m)	R. Levee Frbrd (m)
397	Max WS	2795.32	13.05	27.4	2.29	138.88	0.24	460.02	1.41	3.18
395	Max WS	2764.92	11.75	27.15	2.52	139.09	0.24	541.21	1.19	1.14
390.8	Max WS	2750.23	11.08	26.82	2.74	90.67	0.26	1	4.34	4.44
390.5	Bridge									
390.3	Max WS	2750.23	11.08	26.78	2.75	90.67	0.26	480	4.38	4.48
386	Max WS	2750.06	11.95	26.73	2.24	133.22	0.2	480.96	1.58	0.8
383	Max WS	2749.8	12.1	26.69	1.83	163.94	0.16	617.83	1.64	-2.02
382	Lat Struct									
381.8	Max WS	2744.95	11.69	26.53	1.95	210.87	0.19	1	1.36	-0.76
381.5	Bridge									
381.3	Max WS	2744.95	11.69	26.5	1.96	210.83	0.19	644.01	1.39	-0.3
379.8	Max WS	2744.45	11.14	26.39	1.74	170.24	0.16	1	1.88	-0.51
379.6	Bridge									
379.5	Max WS	2744.44	11.14	26.39	1.74	170.24	0.16	635.14	1.88	-0.51
377	Max WS	2743.8	10.97	26.22	1.97	219.2	0.17	704.88	1.14	0.04
375	Max WS	2742.98	7.61	26.04	2.13	177.19	0.18	565.26	1.33	0.39
373	Max WS	2739.32	11.47	25.87	2.12	143.18	0.21	365.83	1.2	2.02
371	Max WS	2739.28	11.87	25.79	1.96	157.13	0.19	502.78	1.32	0.78
369	Max WS	2739.16	9.89	25.54	2.39	200.79	0.22	491.88	1.43	0.78
367	Max WS	2738.91	9.94	25.45	2.03	316.82	0.19	426.33	1.01	0.46
365	Max WS	2738.6	7.6	25.3	2.06	335.35	0.21	302.97	1.29	0.38
362.8	Max WS	2714.24	14.39	24.89	2.94	100.99	0.31	1	3.62	3.63
362.5	Bridge									
362.3	Max WS	2714.24	14.39	24.85	2.95	100.98	0.31	854.51	3.66	3.67
360	Max WS	2714.12	5.09	24.7	1.45	262.09	0.13	141		
359	Max WS	2714.09	8.51	24.61	1.83	151.6	0.18	233	1.21	0.23
358	Max WS	2714.04	7.36	24.56	1.82	464.44	0.19	205.8	0.93	0.41
356	Max WS	2713.98	8.17	24.54	1.6	629.81	0.18	374.7	1.32	-0.73
354.8	Max WS	2861.08	8.9	24.41	1.75	523.22	0.18	1.2	1.06	
354.5	Max WS	2861.08	8.9	24.41	1.75	523.22	0.18	902.29	1.06	
354.3	Lat Struct									
352	Max WS	2859.78	6.99	24.21	1.73	725.69	0.17	623.52	0.79	-0.38
350.8	Max WS	2856.98	9.65	23.97	1.88	1013.07	0.22	1.2	1.16	-0.19
350.6	Lat Struct									
350.5	Max WS	2856.84	9.65	23.97	1.88	1013.07	0.22	721.12	1.16	-0.19
348	Max WS	2832.12	7.41	23.66	2.08	1135.81	0.21	290	1.15	
347.1	Lat Struct									
347	Max WS	2763.41	6.54	23.64	1.72	832.82	0.18	371.08	1.08	-0.72
346	Max WS	2763.33	7.57	23.52	1.8	776.8	0.19	663.57	0.48	
344.1	Lat Struct									
344	Max WS	2762.63	8.73	23.47	1.21	1019.98	0.12	430.49	0.21	-0.73
342	Max WS	2762.52	7.8	23.4	1.25	749.76	0.12	576.32	0.85	-0.08
340	Max WS	2762.46	6.76	23.24	1.94	237.84	0.16	532.34	1.23	-0.54
336.8	Max WS	2761.77	8.24	23.11	1.92	128.91	0.18	1	5.37	5.38
336.5	Bridge									



336.3 Max WS	2762.45	8.24	23.09	1.92	128.9	0.18	385.41	5.39	5.4
332 Max WS	2762.43	7.5	23.08	1.51	534.72	0.15	362.24	1.26	1.22
331 Max WS	2761.44	7.42	22.91	2.02	312.15	0.21	508.52	1.48	1.52
330 Max WS	2761.33	7.49	22.8	1.81	185.62	0.18	475.58	1.47	1.08
329 Max WS	2761.21	7.38	22.76	1.49	701.12	0.14	346.68	1.46	1.14
327.1	Lat Struct								
327 Max WS	2670.45	7.84	22.75	1.11	755.45	0.11	500.83	0.73	1.21
325.1	Lat Struct								
325 Max WS	2683.88	5.54	22.67	1.37	393.61	0.13	227.69	0.44	1.15
322.8 Max WS	2683.88	8.6	22.54	1.97	129	0.18	1	2.16	2.16
322.5	Bridge								
322.3 Max WS	2683.88	8.6	22.52	1.98	129	0.18	320.57	2.18	2.18
318 Max WS	2683.86	8.5	22.56	1.28	231.64	0.13	479.47	1.04	0.24
317 Max WS	2683.82	6.5	22.4	1.78	163.47	0.17	396.7	0.76	1.05
316 Max WS	2683.66	6.35	22.24	2.06	140.7	0.2	396.33	0.76	0.16
315 Max WS	2683.49	5.1	22.15	1.93	232.01	0.19	364.23	0.72	0.98
314 Max WS	2683.44	8	22.07	1.77	232.84	0.18	395.04	0.42	0.71
313 Max WS	2682.77	7.3	22.03	1.5	278.71	0.15	348.32	0.56	0.61
312 Max WS	2682.76	8.1	21.95	1.66	314.3	0.17	310.39	0.2	0.46
311.1	Lat Struct								
311 Max WS	2671.61	6.85	21.85	1.82	350.78	0.18	400.11	-0.15	0.65
309 Max WS	2671.6	7.3	21.83	1.48	425.23	0.15	331.55	-0.58	0.54
306 Max WS	2671.58	5.1	21.78	1.28	336.15	0.12	199.25	-0.41	-4.49
302.8 Max WS	2671.57	8.54	21.65	1.94	155.77	0.19	1	1.97	2
302.5	Bridge								
302.3 Max WS	2671.57	8.54	21.63	1.95	155.77	0.19	345.6	1.99	2.02
298 Max WS	2671.53	7.9	21.61	1.62	473.74	0.17	616.81	-0.55	0.24
297 Max WS	2671.37	6.05	21.55	1.25	987.68	0.13		-0.35	0.16