



REGIONE TOSCANA

SETTORE GENIO CIVILE VALDARNO CENTRALE
E TUTELA DELL'ACQUA

Messa in sicurezza dell'arginatura del Torrente Calice
in sinistra idraulica dalla Autostrada A11 fino alla confluenza con
il Torrente Agna e dell'area ricompresa tra il Torrente Calice ed
il Torrente Calicino in Comune di Prato - Il Stralcio

PROGETTO DEFINITIVO

DIRIGENTE RESPONSABILE DEL CONTRATTO

Ing. Marco Masi

RESPONSABILE UNICO DEL PROCEDIMENTO

Ing. Francesco Venturi

UFFICIO DI PROGETTAZIONE

PROGETTISTI

H.S. ingegneria s.r.l.

Ing. Simone Pozzolini

COLLABORATORI ALLA
PROGETTAZIONE

Ing. D. Pagli

Ing. L. Pagni

CODICE PROGETTO

ELENCO ELABORATI

Allegati relazione idraulica

	Soggetto competente	Data	Firma	ELABORATO
Emesso	Progettista Ing. Simone Pozzolini	Febbraio 2019 (aggiornamento a seguito della validazione)		T02a REV01
Visionato				
Confermato				

Prato - Via Cairoli, 25 Prato (PO)

RISULTATI MODELLO HEC-RAS

**SA2-Condizione al contorno di scarico rigurgitato dalla piena
nel Torrente Ombrone**

TEMPI DI RITORNO 30 -200 ANNI

Geometria del modello idraulico

Profili MAX WS tempi di ritorno: 30 – 200 anni

Sezioni MAX WS tempi di ritorno: 30 – 200 anni

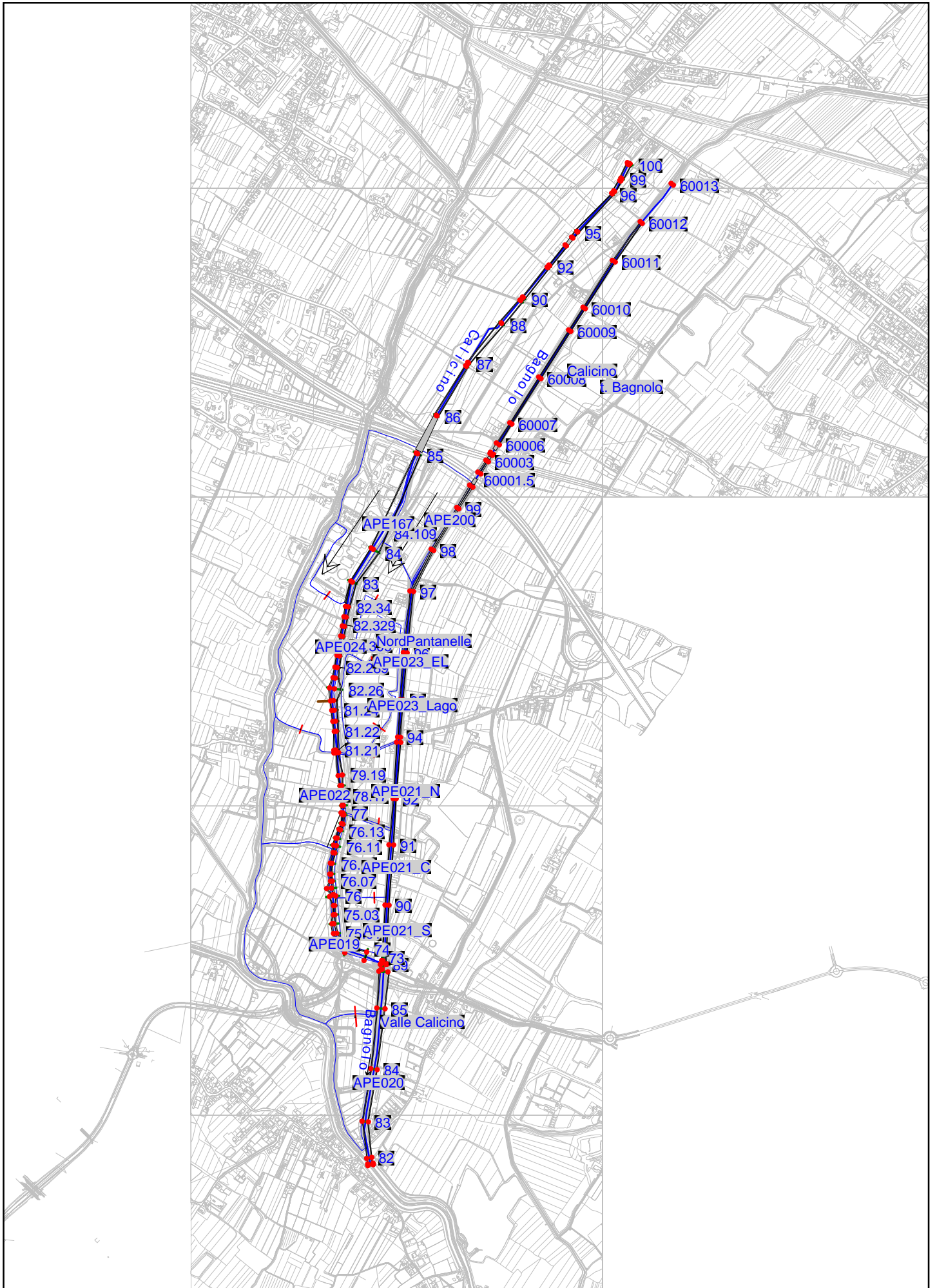
Idrogrammi delle quote del pelo libero ArealInvaso_S

Idrogrammi delle quote del pelo libero ArealInvaso_N

Idrogrammi delle quote del pelo libero NordPantanelle

Tabella MAX WS sezioni idrauliche

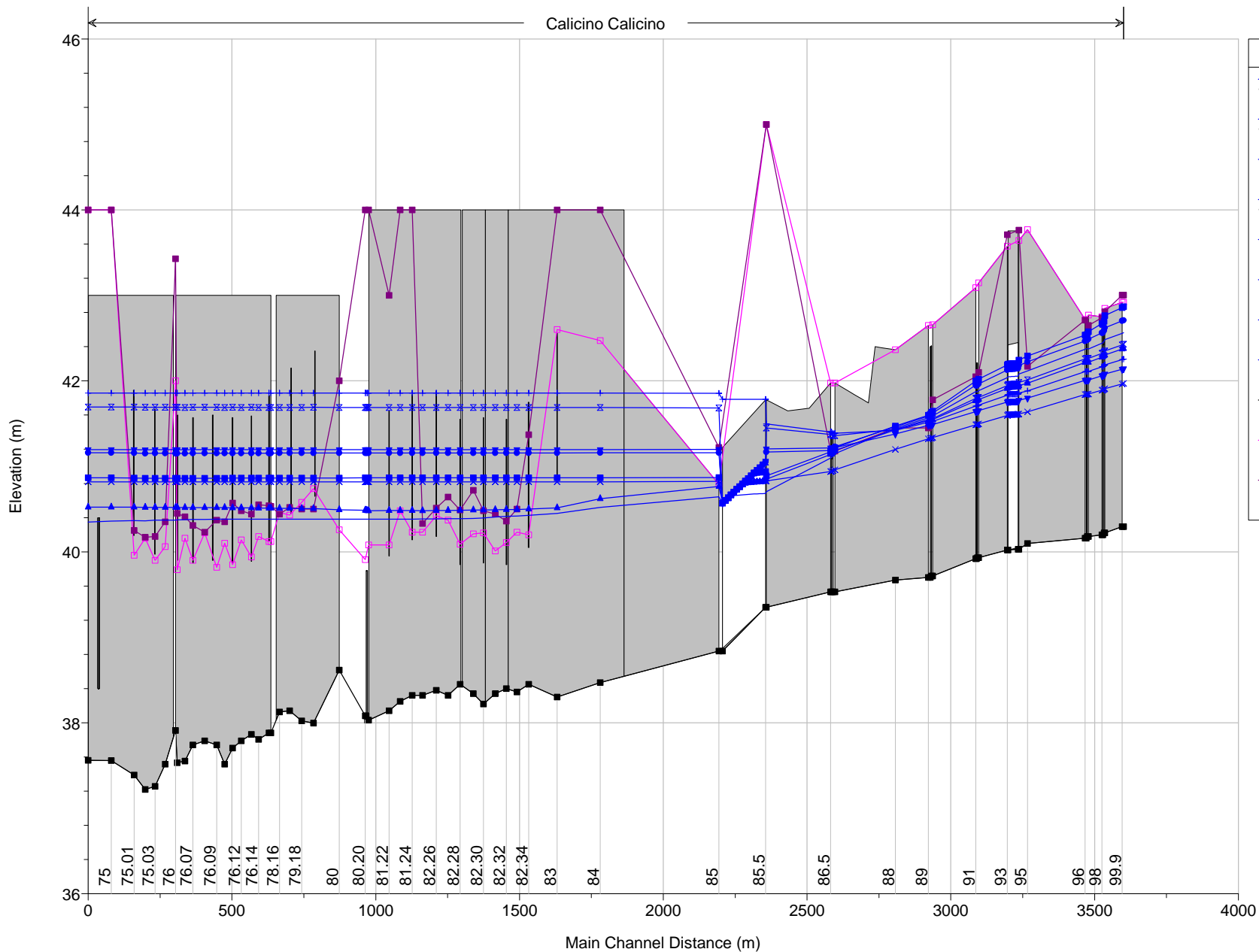
Tabella MAX WS storage area



12 of the 95 XS's are not Geo-Referenced (Geo-Ref user entered XS, Geo-Ref interpolated XS, Non Geo-Ref user entered XS, Non Geo-Ref interpolated XS)

1) TR30_9H_SA2 9/1/2015 2) TR30_12H_SA2 9/1/2015 3) TR30_18H_SA2 9/1/2015 4) TR30_24H_SA2 9/1/2015 5) TR200_9H_SA2 9/1/2015 6) TR200_12H_SA2 9/1/2015 7) TR200_18H_SA2 9/1/2015 8) TR200_24H_SA2 9/1/2015

Geom: Calicino_SA-V4



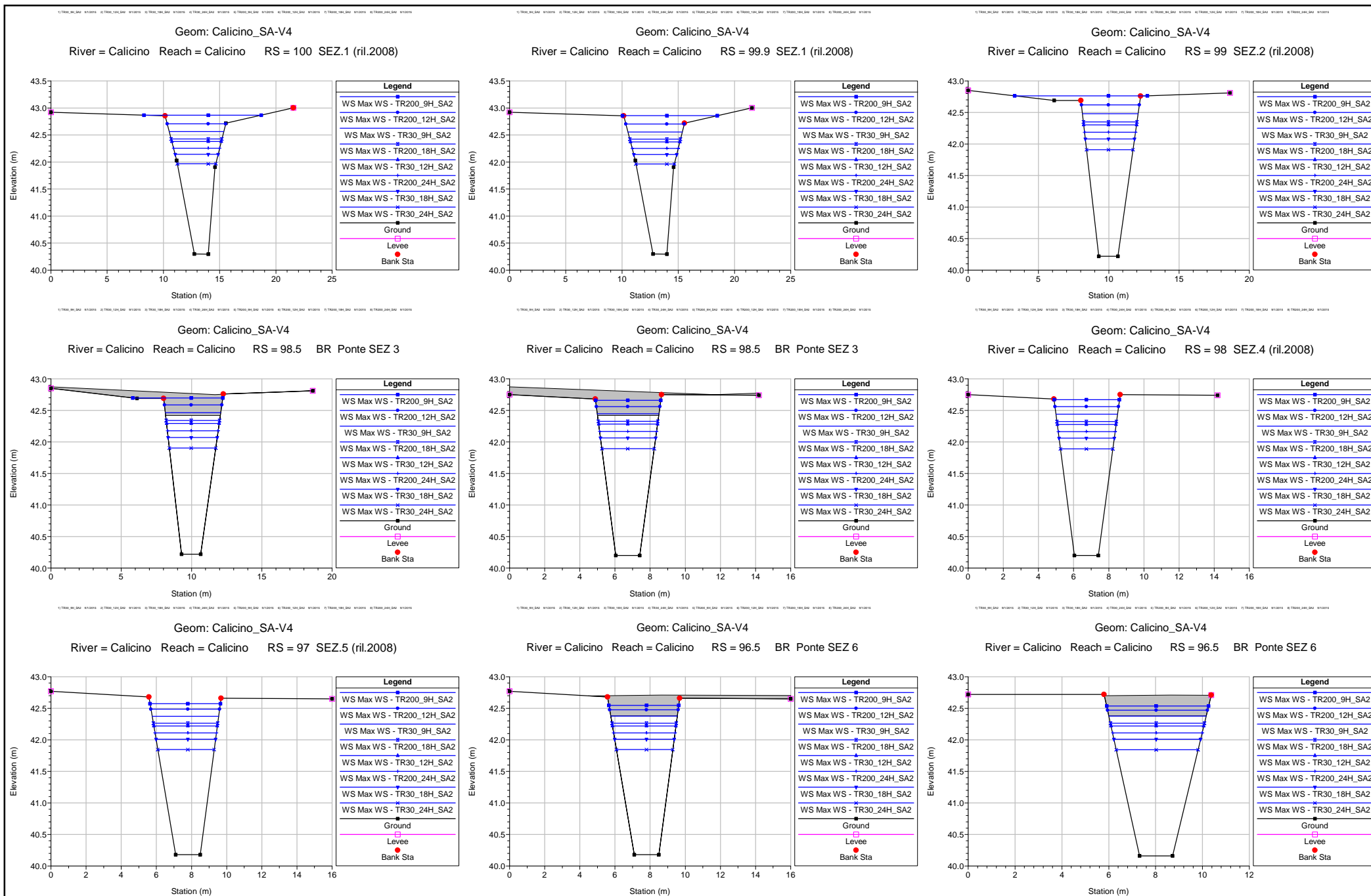
Legend

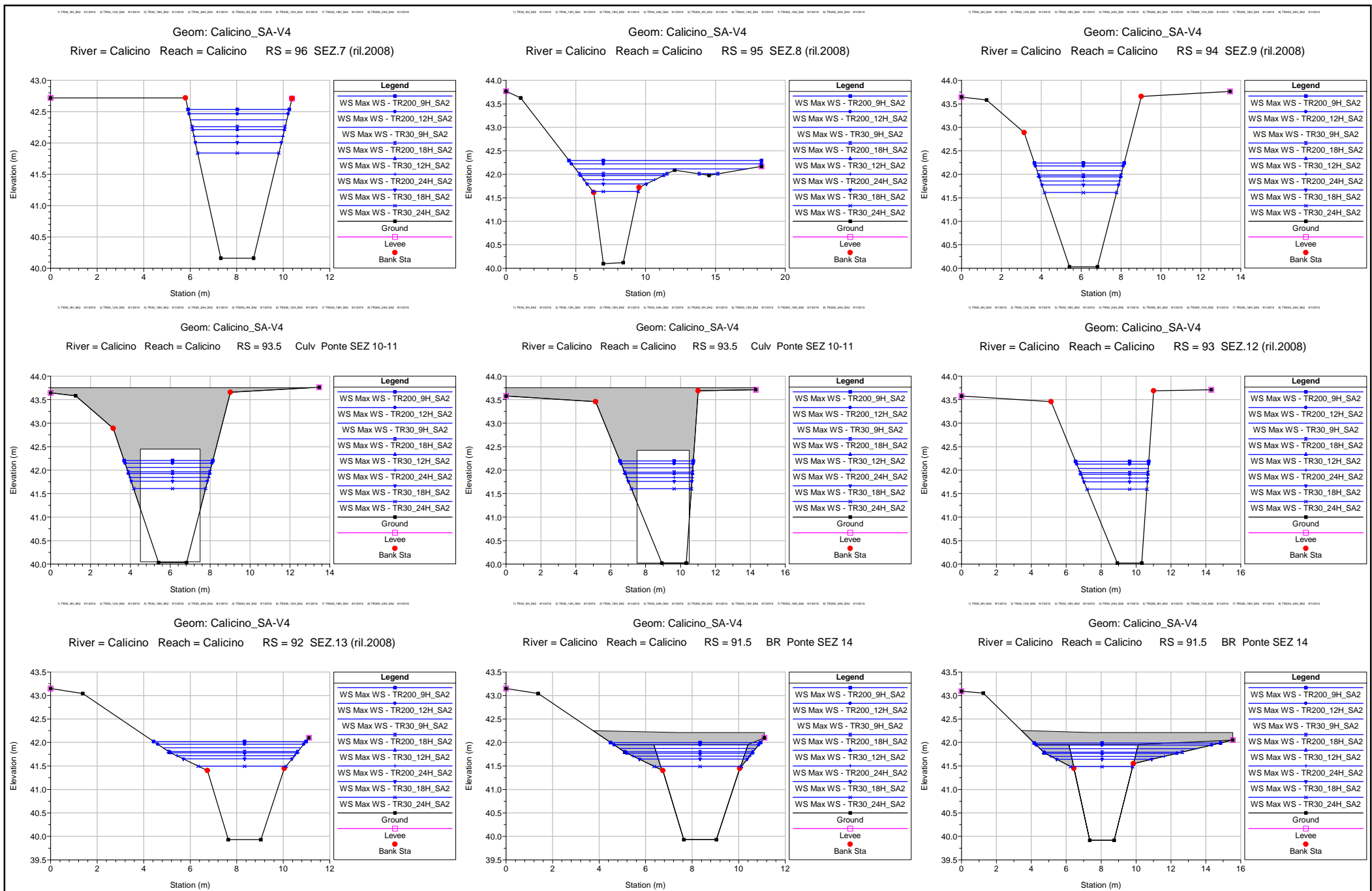
WS Max WS - TR200_24H_SA2
WS Max WS - TR200_18H_SA2
WS Max WS - TR30_18H_SA2
WS Max WS - TR200_12H_SA2
WS Max WS - TR200_9H_SA2
WS Max WS - TR30_24H_SA2
WS Max WS - TR30_12H_SA2
WS Max WS - TR30_9H_SA2

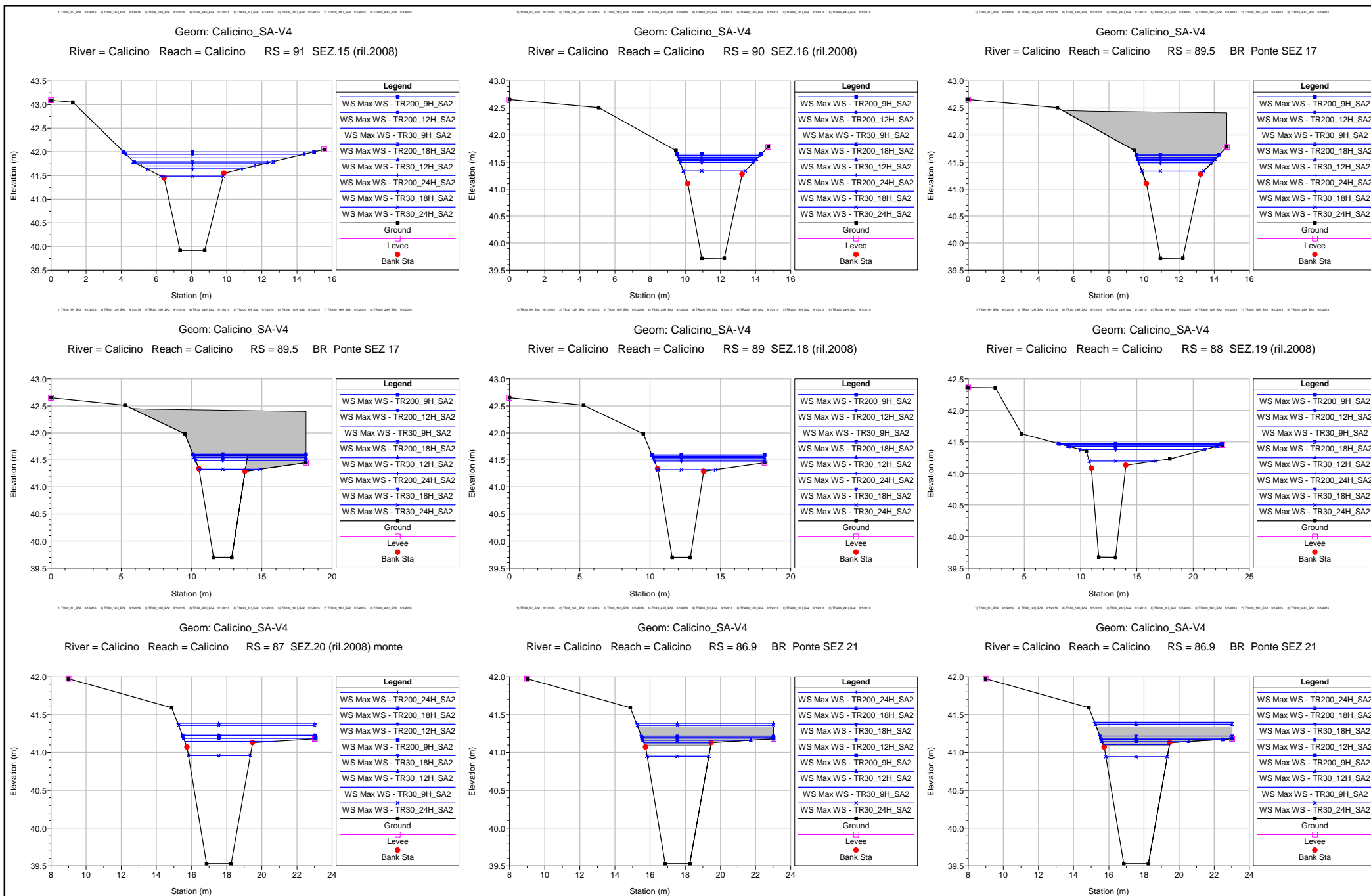
Ground

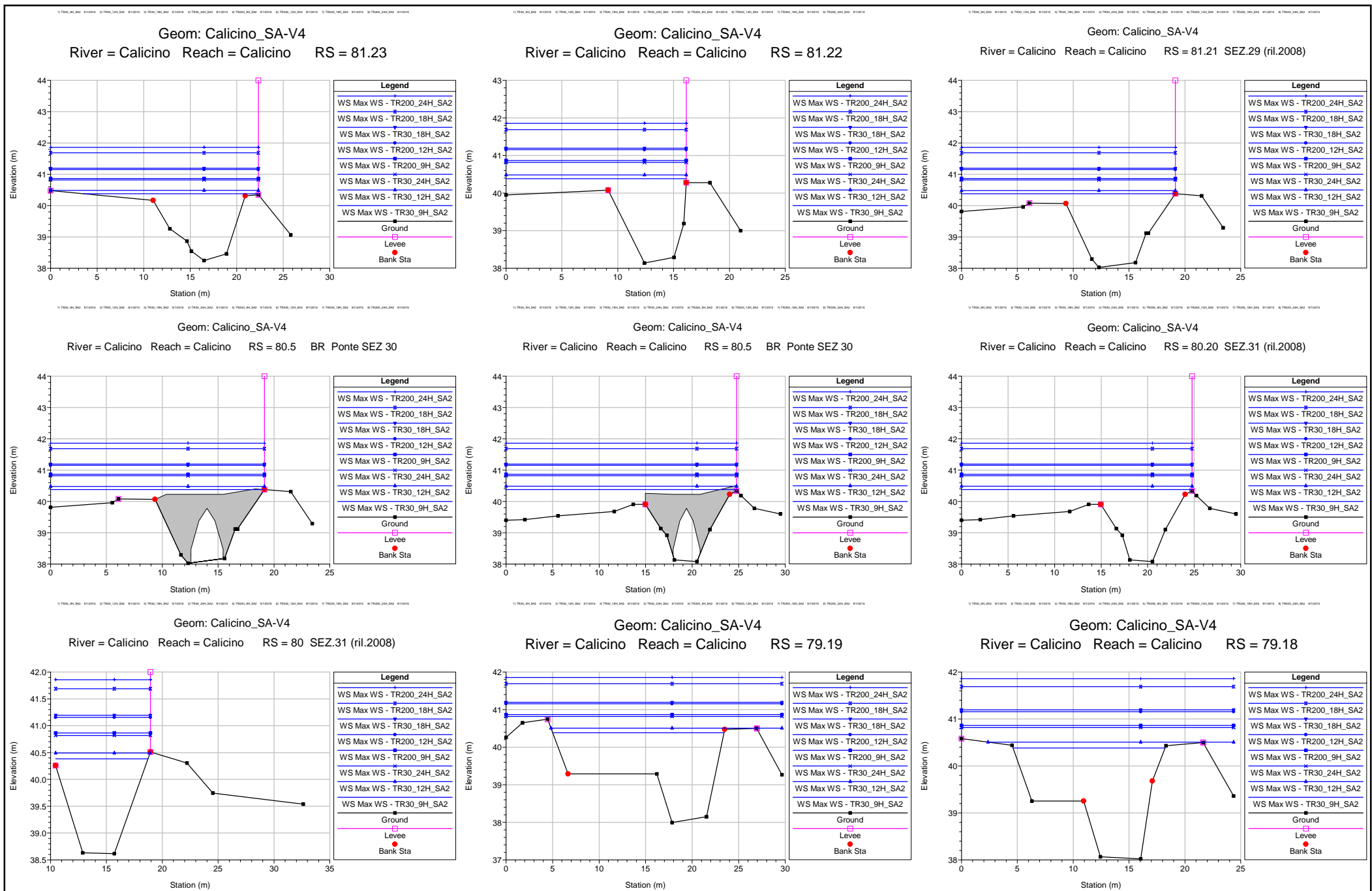
Left Levee

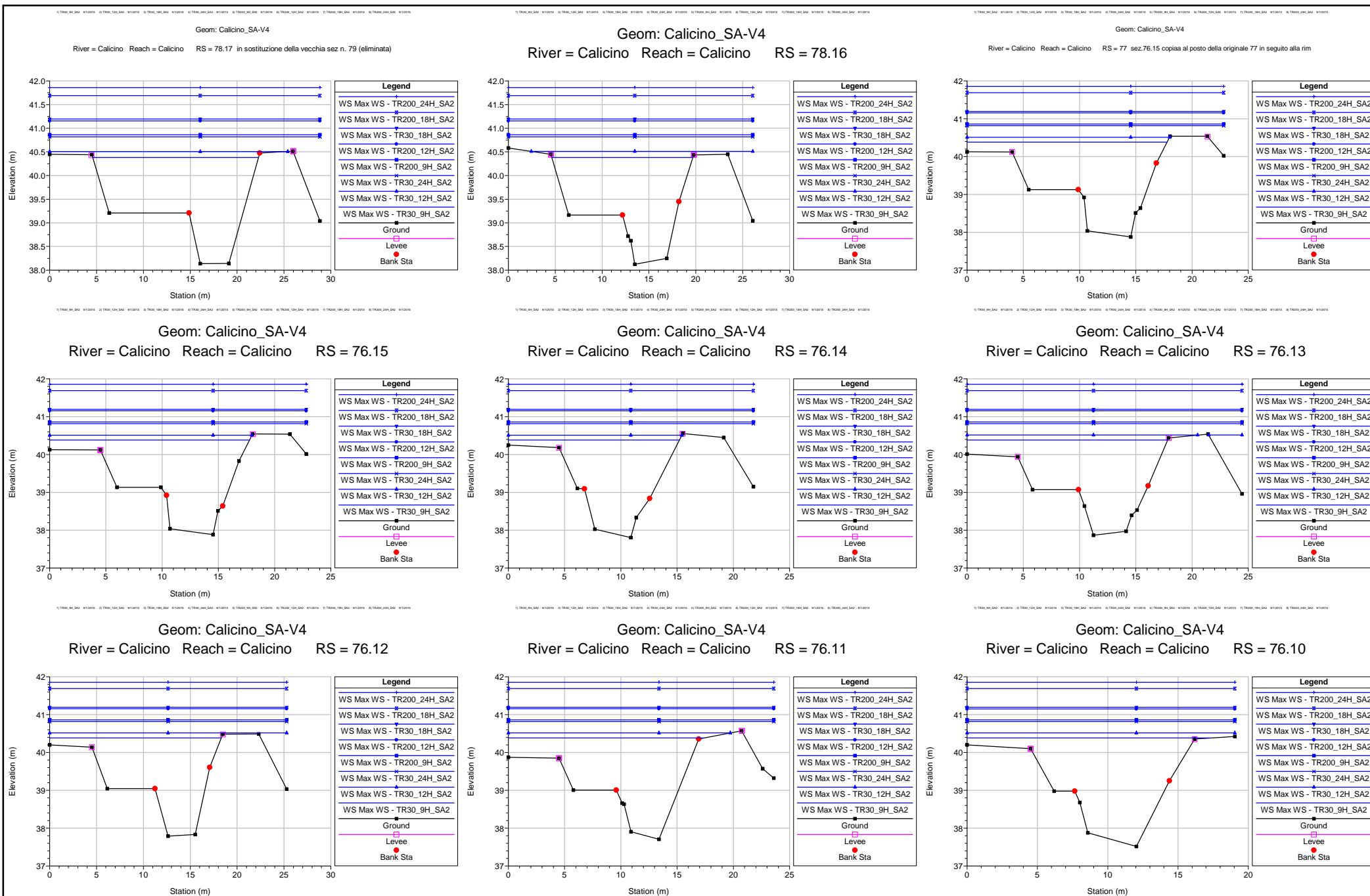
Right Levee

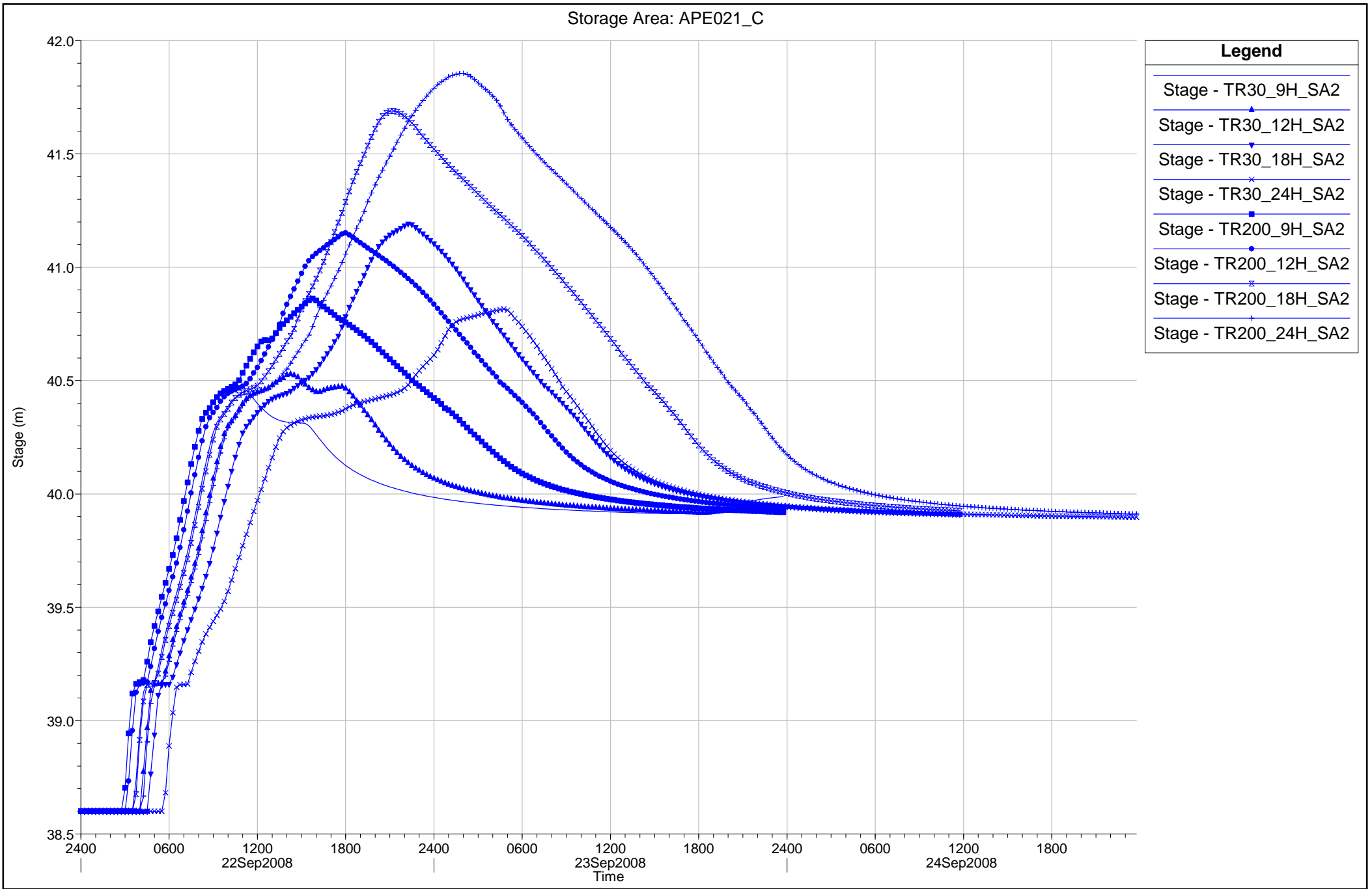




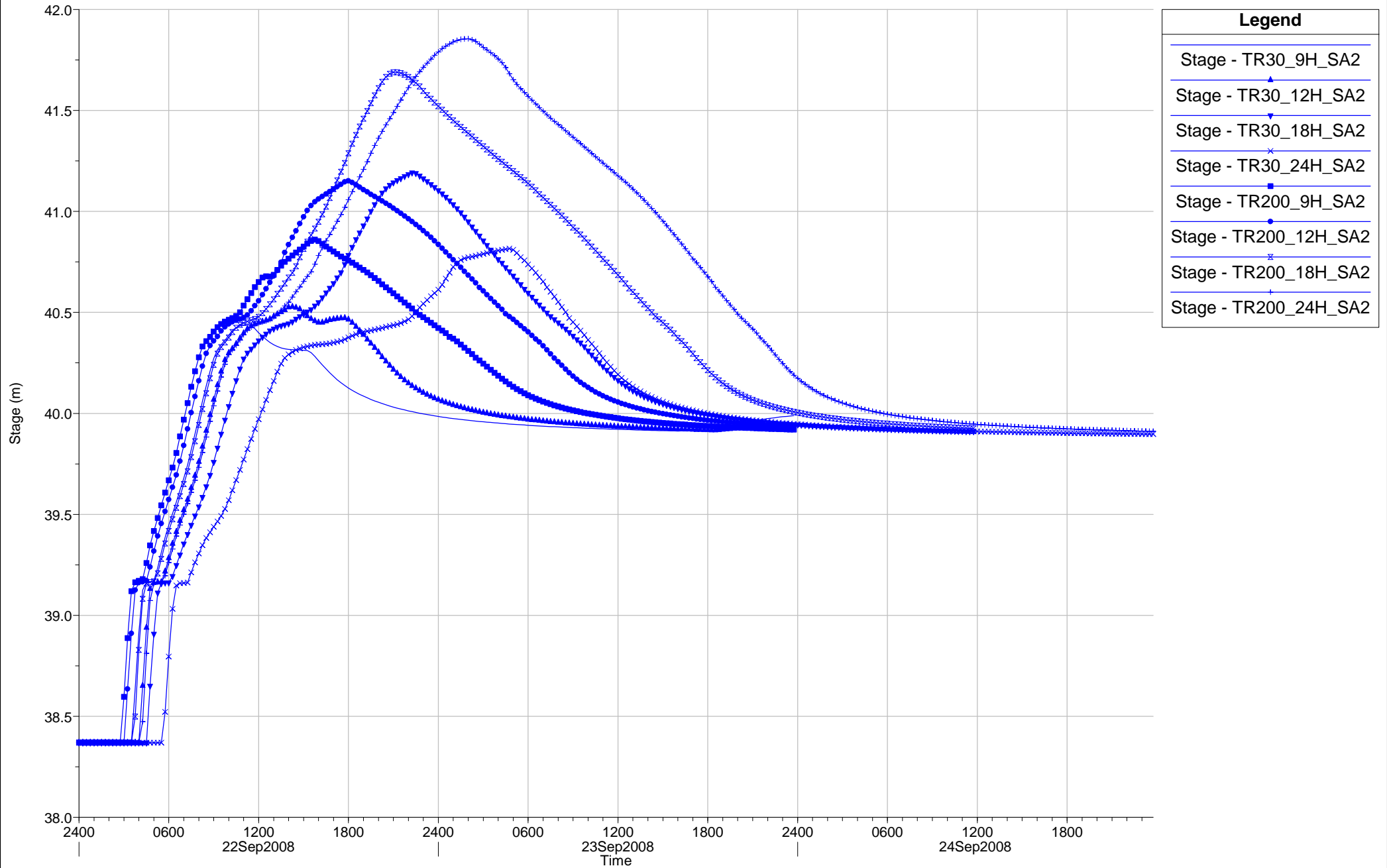




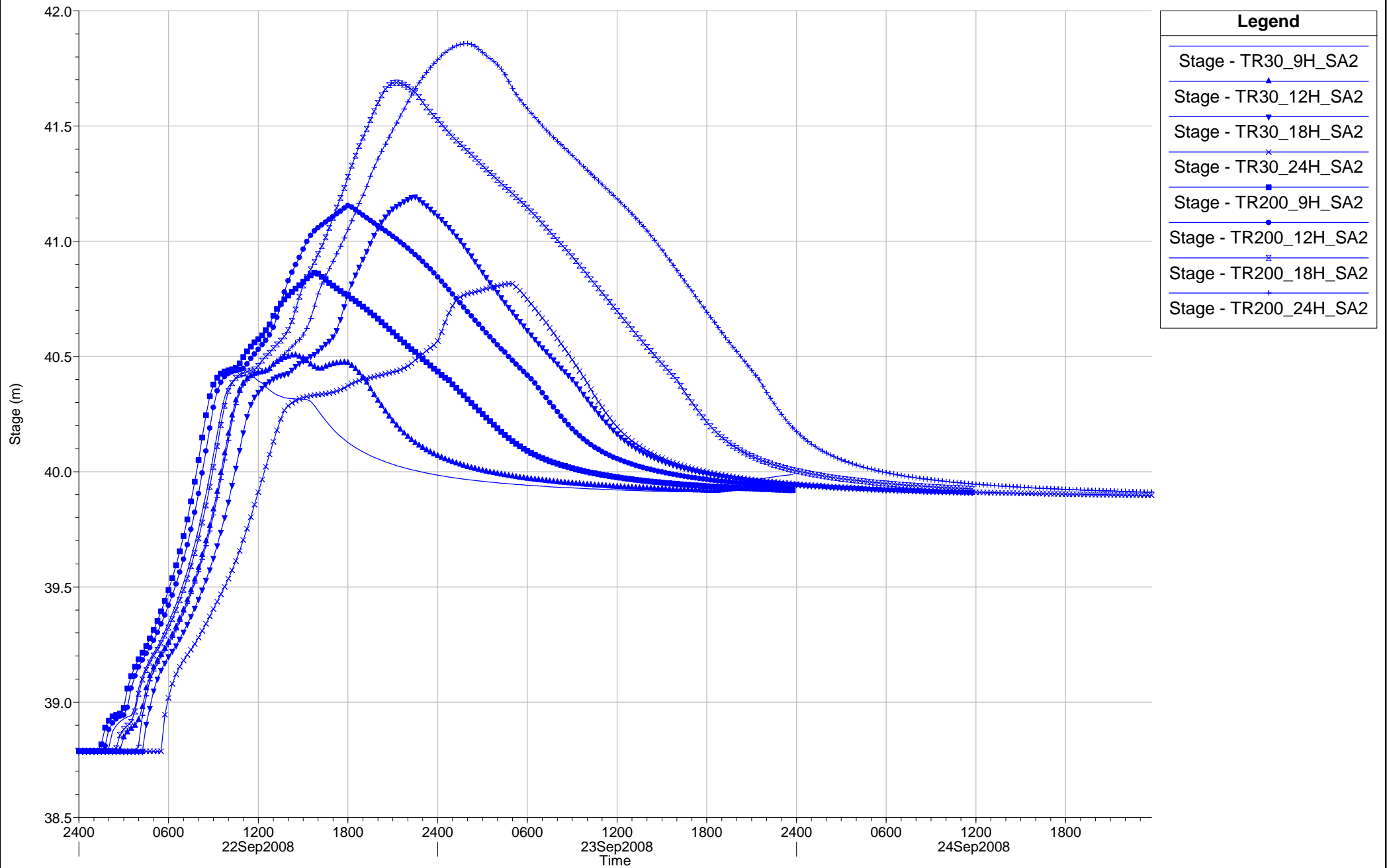




Storage Area: APE021_S



Storage Area: NordPantanelle



Reach	River Sta	Profile	Plan	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)	
Calicino	100	Max WS	TR30_9H_SA2	5.64	40.29	42.56	41.36	42.60	0.001170	0.90	6.29	4.86	0.25
Calicino	100	Max WS	TR30_12H_SA2	4.60	40.29	42.38	41.25	42.41	0.001129	0.85	5.44	4.40	0.24
Calicino	100	Max WS	TR30_18H_SA2	3.42	40.29	42.14	41.10	42.17	0.001023	0.76	4.47	3.82	0.23
Calicino	100	Max WS	TR30_24H_SA2	2.77	40.29	41.97	41.00	42.00	0.000979	0.72	3.84	3.42	0.22
Calicino	100	Max WS	TR200_9H_SA2	8.04	40.29	42.87	41.60	42.92	0.001816	0.99	8.12	10.42	0.33
Calicino	100	Max WS	TR200_12H_SA2	6.55	40.29	42.71	41.45	42.75	0.001191	0.93	7.02	5.21	0.26
Calicino	100	Max WS	TR200_18H_SA2	4.88	40.29	42.43	41.28	42.47	0.001147	0.86	5.66	4.52	0.25
Calicino	100	Max WS	TR200_24H_SA2	3.95	40.29	42.26	41.17	42.29	0.001076	0.80	4.92	4.10	0.23
Calicino	99.9	Max WS	TR30_9H_SA2	5.64	40.29	42.56	41.36	42.60	0.001185	0.90	6.26	4.84	0.25
Calicino	99.9	Max WS	TR30_12H_SA2	4.60	40.29	42.37	41.25	42.41	0.001144	0.85	5.41	4.39	0.24
Calicino	99.9	Max WS	TR30_18H_SA2	3.42	40.29	42.14	41.10	42.17	0.001035	0.77	4.45	3.81	0.23
Calicino	99.9	Max WS	TR30_24H_SA2	2.77	40.29	41.96	41.00	41.99	0.000990	0.72	3.82	3.41	0.22
Calicino	99.9	Max WS	TR200_9H_SA2	8.04	40.29	42.86	41.60	42.91	0.001303	1.03	8.01	8.42	0.27
Calicino	99.9	Max WS	TR200_12H_SA2	6.55	40.29	42.70	41.45	42.75	0.001206	0.94	6.99	5.20	0.26
Calicino	99.9	Max WS	TR200_18H_SA2	4.87	40.29	42.42	41.28	42.46	0.001162	0.87	5.63	4.51	0.25
Calicino	99.9	Max WS	TR200_24H_SA2	3.95	40.29	42.25	41.17	42.28	0.001089	0.81	4.89	4.09	0.24
Calicino	99.5			Lat Struct									
Calicino	99.4			Lat Struct									
Calicino	99	Max WS	TR30_9H_SA2	5.64	40.22	42.48	41.26	42.53	0.001216	0.94	6.01	3.96	0.24
Calicino	99	Max WS	TR30_12H_SA2	4.60	40.22	42.30	41.14	42.34	0.001110	0.86	5.33	3.76	0.23
Calicino	99	Max WS	TR30_18H_SA2	3.42	40.22	42.08	40.99	42.11	0.000950	0.76	4.51	3.50	0.21
Calicino	99	Max WS	TR30_24H_SA2	2.77	40.22	41.91	40.90	41.93	0.000894	0.70	3.93	3.30	0.21
Calicino	99	Max WS	TR200_9H_SA2	8.04	40.22	42.76	41.49	42.83	0.001518	1.12	7.42	9.43	0.27
Calicino	99	Max WS	TR200_12H_SA2	6.55	40.22	42.62	41.35	42.67	0.001298	1.00	6.58	4.12	0.25
Calicino	99	Max WS	TR200_18H_SA2	4.87	40.22	42.35	41.17	42.39	0.001144	0.89	5.51	3.81	0.24
Calicino	99	Max WS	TR200_24H_SA2	3.95	40.22	42.19	41.06	42.22	0.001023	0.81	4.90	3.62	0.22
Calicino	98.5			Bridge									
Calicino	98	Max WS	TR30_9H_SA2	5.64	40.20	42.44	41.26	42.49	0.001599	1.03	5.45	3.50	0.26
Calicino	98	Max WS	TR30_12H_SA2	4.60	40.20	42.28	41.13	42.32	0.001407	0.94	4.90	3.34	0.25
Calicino	98	Max WS	TR30_18H_SA2	3.42	40.20	42.06	40.98	42.09	0.001169	0.82	4.19	3.14	0.23
Calicino	98	Max WS	TR30_24H_SA2	2.77	40.20	41.89	40.89	41.92	0.001079	0.75	3.68	2.98	0.22
Calicino	98	Max WS	TR200_9H_SA2	8.04	40.20	42.67	41.50	42.75	0.002247	1.28	6.28	3.72	0.31
Calicino	98	Max WS	TR200_12H_SA2	6.55	40.20	42.56	41.35	42.62	0.001768	1.11	5.89	3.61	0.28
Calicino	98	Max WS	TR200_18H_SA2	4.87	40.20	42.32	41.17	42.37	0.001459	0.97	5.05	3.39	0.25

HEC-RAS River: Calicino Reach: Calicino Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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)	
Calicino	98	Max WS	TR200_24H_SA2	3.95	40.20	42.16	41.05	42.20	0.001276	0.87	4.53	3.24	0.24
Calicino	97.5			Lat Struct									
Calicino	97.4			Lat Struct									
Calicino	97	Max WS	TR30_9H_SA2	5.64	40.18	42.37	41.21	42.42	0.001408	0.99	5.69	3.79	0.26
Calicino	97	Max WS	TR30_12H_SA2	4.60	40.18	42.22	41.09	42.26	0.001236	0.90	5.12	3.62	0.24
Calicino	97	Max WS	TR30_18H_SA2	3.42	40.18	42.01	40.94	42.04	0.001024	0.78	4.39	3.39	0.22
Calicino	97	Max WS	TR30_24H_SA2	2.77	40.18	41.85	40.85	41.87	0.000950	0.72	3.84	3.21	0.21
Calicino	97	Max WS	TR200_9H_SA2	8.04	40.18	42.57	41.44	42.65	0.002044	1.24	6.47	4.01	0.31
Calicino	97	Max WS	TR200_12H_SA2	6.55	40.18	42.49	41.30	42.55	0.001563	1.07	6.13	3.91	0.27
Calicino	97	Max WS	TR200_18H_SA2	4.87	40.18	42.26	41.12	42.31	0.001283	0.92	5.28	3.67	0.25
Calicino	97	Max WS	TR200_24H_SA2	3.95	40.18	42.11	41.01	42.15	0.001120	0.83	4.73	3.50	0.23
Calicino	96.5			Bridge									
Calicino	96	Max WS	TR30_9H_SA2	5.64	40.16	42.37	41.17	42.41	0.001140	0.92	6.14	4.15	0.24
Calicino	96	Max WS	TR30_12H_SA2	4.60	40.16	42.21	41.05	42.25	0.001007	0.83	5.51	3.95	0.23
Calicino	96	Max WS	TR30_18H_SA2	3.42	40.16	42.01	40.91	42.03	0.000841	0.73	4.71	3.69	0.21
Calicino	96	Max WS	TR30_24H_SA2	2.77	40.16	41.84	40.82	41.86	0.000787	0.67	4.12	3.49	0.20
Calicino	96	Max WS	TR200_9H_SA2	8.04	40.16	42.54	41.40	42.61	0.001740	1.17	6.85	4.35	0.30
Calicino	96	Max WS	TR200_12H_SA2	6.55	40.16	42.47	41.26	42.52	0.001299	1.00	6.55	4.26	0.26
Calicino	96	Max WS	TR200_18H_SA2	4.87	40.16	42.26	41.09	42.30	0.001043	0.86	5.69	4.01	0.23
Calicino	96	Max WS	TR200_24H_SA2	3.95	40.16	42.11	40.98	42.14	0.000916	0.78	5.09	3.82	0.21
Calicino	95.5			Lat Struct									
Calicino	95.4			Lat Struct									
Calicino	95	Max WS	TR30_9H_SA2	5.64	40.10	42.12	41.12	42.17	0.001319	1.04	6.36	12.29	0.27
Calicino	95	Max WS	TR30_12H_SA2	4.60	40.10	41.97	41.01	42.02	0.001302	0.97	5.02	5.94	0.26
Calicino	95	Max WS	TR30_18H_SA2	3.42	40.10	41.80	40.86	41.83	0.001162	0.84	4.12	4.26	0.24
Calicino	95	Max WS	TR30_24H_SA2	2.77	40.10	41.64	40.77	41.67	0.001177	0.78	3.54	3.26	0.24
Calicino	95	Max WS	TR200_9H_SA2	6.92	40.10	42.29	41.25	42.34	0.001113	1.03	8.70	13.78	0.25
Calicino	95	Max WS	TR200_12H_SA2	6.41	40.10	42.22	41.20	42.27	0.001206	1.04	7.76	13.60	0.26
Calicino	95	Max WS	TR200_18H_SA2	4.87	40.10	42.01	41.04	42.06	0.001320	1.00	5.28	7.63	0.26
Calicino	95	Max WS	TR200_24H_SA2	3.95	40.10	41.88	40.93	41.92	0.001227	0.90	4.52	5.07	0.25
Calicino	94	Max WS	TR30_9H_SA2	5.64	40.03	42.08		42.13	0.001315	0.97	5.81	4.27	0.27

Reach	River Sta	Profile	Plan	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)	
Calicino	94	Max WS	TR30_12H_SA2	4.60	40.03	41.94		41.98	0.001148	0.88	5.25	4.08	0.25
Calicino	94	Max WS	TR30_18H_SA2	3.42	40.03	41.77		41.80	0.000915	0.75	4.57	3.84	0.22
Calicino	94	Max WS	TR30_24H_SA2	2.77	40.03	41.61		41.64	0.000871	0.70	3.97	3.62	0.21
Calicino	94	Max WS	TR200_9H_SA2	6.89	40.03	42.24		42.30	0.001448	1.06	6.52	4.50	0.28
Calicino	94	Max WS	TR200_12H_SA2	6.41	40.03	42.18		42.23	0.001412	1.03	6.23	4.41	0.28
Calicino	94	Max WS	TR200_18H_SA2	4.87	40.03	41.98		42.02	0.001197	0.90	5.39	4.13	0.25
Calicino	94	Max WS	TR200_24H_SA2	3.95	40.03	41.86		41.89	0.001018	0.81	4.89	3.96	0.23
Calicino	93.5			Culvert									
Calicino	93	Max WS	TR30_9H_SA2	5.64	40.02	42.04	41.02	42.09	0.001645	1.04	5.45	4.01	0.28
Calicino	93	Max WS	TR30_12H_SA2	4.60	40.02	41.91	40.91	41.96	0.001404	0.93	4.96	3.84	0.26
Calicino	93	Max WS	TR30_18H_SA2	3.42	40.02	41.75	40.77	41.78	0.001088	0.78	4.36	3.64	0.23
Calicino	93	Max WS	TR30_24H_SA2	2.77	40.02	41.60	40.68	41.62	0.001021	0.73	3.81	3.43	0.22
Calicino	93	Max WS	TR200_9H_SA2	6.89	40.02	42.19	41.15	42.25	0.001854	1.14	6.06	4.20	0.30
Calicino	93	Max WS	TR200_12H_SA2	6.41	40.02	42.13	41.10	42.19	0.001793	1.10	5.81	4.12	0.30
Calicino	93	Max WS	TR200_18H_SA2	4.87	40.02	41.95	40.94	41.99	0.001471	0.96	5.09	3.89	0.27
Calicino	93	Max WS	TR200_24H_SA2	3.95	40.02	41.83	40.84	41.87	0.001226	0.85	4.65	3.74	0.24
Calicino	92.5			Lat Struct									
Calicino	92.4			Lat Struct									
Calicino	92	Max WS	TR30_9H_SA2	5.64	39.93	41.88	40.94	41.94	0.001385	1.08	5.67	5.92	0.28
Calicino	92	Max WS	TR30_12H_SA2	4.60	39.93	41.78	40.83	41.83	0.001208	0.96	5.08	5.42	0.26
Calicino	92	Max WS	TR30_18H_SA2	3.42	39.93	41.65	40.68	41.68	0.000945	0.80	4.42	4.67	0.22
Calicino	92	Max WS	TR30_24H_SA2	2.77	39.93	41.50	40.59	41.52	0.000964	0.74	3.77	3.77	0.22
Calicino	92	Max WS	TR200_9H_SA2	6.89	39.93	42.02	41.06	42.09	0.001469	1.17	6.52	6.55	0.29
Calicino	92	Max WS	TR200_12H_SA2	6.41	39.93	41.96	41.01	42.03	0.001466	1.15	6.15	6.28	0.29
Calicino	92	Max WS	TR200_18H_SA2	4.87	39.93	41.81	40.86	41.86	0.001261	0.99	5.23	5.56	0.26
Calicino	92	Max WS	TR200_24H_SA2	3.95	39.93	41.72	40.75	41.75	0.001057	0.87	4.74	5.05	0.24
Calicino	91.5			Bridge									
Calicino	91	Max WS	TR30_9H_SA2	5.64	39.92	41.87	40.93	41.93	0.001388	1.05	6.10	9.05	0.28
Calicino	91	Max WS	TR30_12H_SA2	4.60	39.92	41.77	40.82	41.81	0.001258	0.95	5.23	7.52	0.26
Calicino	91	Max WS	TR30_18H_SA2	3.42	39.92	41.64	40.67	41.67	0.000999	0.80	4.40	5.41	0.23
Calicino	91	Max WS	TR30_24H_SA2	2.77	39.92	41.49	40.58	41.51	0.001007	0.74	3.74	3.54	0.22
Calicino	91	Max WS	TR200_9H_SA2	6.89	39.92	42.00	41.05	42.06	0.001428	1.13	7.35	10.83	0.28
Calicino	91	Max WS	TR200_12H_SA2	6.41	39.92	41.95	41.01	42.01	0.001425	1.10	6.85	10.15	0.28

HEC-RAS River: Calicino Reach: Calicino Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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)	
Calicino	91	Max WS	TR200_18H_SA2	4.87	39.92	41.80	40.85	41.84	0.001302	0.98	5.44	7.95	0.26
Calicino	91	Max WS	TR200_24H_SA2	3.95	39.92	41.70	40.74	41.74	0.001113	0.87	4.78	6.47	0.24
Calicino	90.5			Lat Struct									
Calicino	90.4			Lat Struct									
Calicino	90	Max WS	TR30_9H_SA2	5.64	39.72	41.59	40.77	41.67	0.002084	1.25	4.72	4.55	0.33
Calicino	90	Max WS	TR30_12H_SA2	4.60	39.72	41.55	40.66	41.60	0.001541	1.05	4.53	4.38	0.28
Calicino	90	Max WS	TR30_18H_SA2	3.42	39.72	41.49	40.50	41.52	0.000987	0.82	4.28	4.15	0.23
Calicino	90	Max WS	TR30_24H_SA2	2.77	39.72	41.34	40.41	41.36	0.000987	0.76	3.69	3.52	0.22
Calicino	90	Max WS	TR200_9H_SA2	6.89	39.72	41.65	40.90	41.75	0.002695	1.46	4.98	4.78	0.38
Calicino	90	Max WS	TR200_12H_SA2	6.41	39.72	41.62	40.85	41.72	0.002468	1.38	4.88	4.69	0.36
Calicino	90	Max WS	TR200_18H_SA2	4.87	39.72	41.56	40.69	41.62	0.001684	1.11	4.57	4.43	0.30
Calicino	90	Max WS	TR200_24H_SA2	3.95	39.72	41.53	40.58	41.57	0.001202	0.92	4.44	4.30	0.25
Calicino	89.5			Bridge									
Calicino	89	Max WS	TR30_9H_SA2	5.63	39.70	41.57	40.75	41.63	0.001969	1.17	5.42	7.99	0.32
Calicino	89	Max WS	TR30_12H_SA2	4.60	39.70	41.54	40.63	41.59	0.001451	0.99	5.18	7.94	0.27
Calicino	89	Max WS	TR30_18H_SA2	3.42	39.70	41.48	40.48	41.51	0.000966	0.79	4.73	7.85	0.22
Calicino	89	Max WS	TR30_24H_SA2	2.77	39.70	41.32	40.39	41.35	0.001029	0.75	3.73	4.12	0.22
Calicino	89	Max WS	TR200_9H_SA2	6.89	39.70	41.60	40.87	41.69	0.002673	1.39	5.66	8.03	0.37
Calicino	89	Max WS	TR200_12H_SA2	6.41	39.70	41.59	40.83	41.67	0.002394	1.31	5.58	8.02	0.35
Calicino	89	Max WS	TR200_18H_SA2	4.87	39.70	41.55	40.66	41.60	0.001580	1.04	5.25	7.95	0.28
Calicino	89	Max WS	TR200_24H_SA2	3.95	39.70	41.52	40.55	41.55	0.001145	0.87	5.02	7.91	0.24
Calicino	88.5			Lat Struct									
Calicino	88.4			Lat Struct									
Calicino	88	Max WS	TR30_9H_SA2	4.18	39.67	41.45	40.50	41.48	0.001065	0.87	6.04	13.96	0.23
Calicino	88	Max WS	TR30_12H_SA2	3.85	39.67	41.43	40.46	41.46	0.000978	0.83	5.76	13.08	0.22
Calicino	88	Max WS	TR30_18H_SA2	3.35	39.67	41.38	40.40	41.41	0.000873	0.76	5.20	11.14	0.21
Calicino	88	Max WS	TR30_24H_SA2	2.76	39.67	41.20	40.31	41.23	0.001095	0.78	3.65	5.90	0.23
Calicino	88	Max WS	TR200_9H_SA2	4.48	39.67	41.47	40.54	41.51	0.001107	0.90	6.39	14.53	0.24
Calicino	88	Max WS	TR200_12H_SA2	4.34	39.67	41.46	40.52	41.50	0.001069	0.88	6.29	14.38	0.23
Calicino	88	Max WS	TR200_18H_SA2	3.92	39.67	41.43	40.47	41.47	0.000988	0.83	5.85	13.37	0.23
Calicino	88	Max WS	TR200_24H_SA2	3.49	39.67	41.42	40.42	41.45	0.000815	0.75	5.72	12.94	0.20

HEC-RAS River: Calicino Reach: Calicino Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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)	
Calicino	87	Max WS	TR30_9H_SA2	4.16	39.53	41.15	40.36	41.20	0.001636	0.99	4.23	5.12	0.30
Calicino	87	Max WS	TR30_12H_SA2	3.84	39.53	41.19	40.32	41.23	0.001233	0.88	4.48	7.47	0.26
Calicino	87	Max WS	TR30_18H_SA2	0.91	39.53	41.22	39.86	41.22	0.000063	0.20	4.72	7.52	0.06
Calicino	87	Max WS	TR30_24H_SA2	2.74	39.53	40.96	40.18	40.99	0.001172	0.78	3.52	3.53	0.25
Calicino	87	Max WS	TR200_9H_SA2	3.94	39.53	41.22	40.33	41.26	0.001177	0.87	4.72	7.53	0.25
Calicino	87	Max WS	TR200_12H_SA2	3.77	39.53	41.23	40.31	41.26	0.001040	0.83	4.80	7.54	0.24
Calicino	87	Max WS	TR200_18H_SA2	-2.29	39.53	41.36		41.37	0.000255	-0.44	5.78	7.76	0.12
Calicino	87	Max WS	TR200_24H_SA2	-2.10	39.53	41.39		41.39	0.000196	-0.39	6.01	7.80	0.11
Calicino	86.9			Bridge									
Calicino	86.5	Max WS	TR30_9H_SA2	4.16	39.53	41.10	40.36	41.15	0.001875	1.03	4.03	3.76	0.32
Calicino	86.5	Max WS	TR30_12H_SA2	3.84	39.53	41.14	40.32	41.18	0.001421	0.92	4.19	4.61	0.28
Calicino	86.5	Max WS	TR30_18H_SA2	0.91	39.53	41.22	39.86	41.22	0.000064	0.20	4.70	7.52	0.06
Calicino	86.5	Max WS	TR30_24H_SA2	2.74	39.53	40.94	40.18	40.97	0.001238	0.79	3.45	3.50	0.26
Calicino	86.5	Max WS	TR200_9H_SA2	3.94	39.53	41.17	40.33	41.21	0.001371	0.92	4.36	6.73	0.27
Calicino	86.5	Max WS	TR200_12H_SA2	3.77	39.53	41.18	40.31	41.22	0.001195	0.86	4.46	7.47	0.26
Calicino	86.5	Max WS	TR200_18H_SA2	-2.29	39.53	41.37	40.11	41.38	0.000243	-0.43	5.91	7.78	0.12
Calicino	86.5	Max WS	TR200_24H_SA2	-2.12	39.53	41.40	40.09	41.41	0.000191	-0.39	6.12	7.83	0.11
Calicino	86.4			Lat Struct									
Calicino	86.39			Lat Struct									
Calicino	86	Max WS	TR30_9H_SA2	3.62	39.35	40.70		40.74	0.001477	0.88	4.10	3.08	0.24
Calicino	86	Max WS	TR30_12H_SA2	3.84	39.35	40.85		40.89	0.001256	0.84	4.55	3.09	0.22
Calicino	86	Max WS	TR30_18H_SA2	0.88	39.35	41.21		41.21	0.000037	0.15	5.65	3.12	0.04
Calicino	86	Max WS	TR30_24H_SA2	0.99	39.35	40.83		40.83	0.000087	0.22	4.48	3.09	0.06
Calicino	86	Max WS	TR200_9H_SA2	3.89	39.35	40.89		40.93	0.001200	0.83	4.67	3.10	0.22
Calicino	86	Max WS	TR200_12H_SA2	0.99	39.35	41.17		41.17	0.000049	0.18	5.53	3.12	0.04
Calicino	86	Max WS	TR200_18H_SA2	-5.01	39.35	41.45		41.48	0.000867	-0.78	6.41	3.14	0.17
Calicino	86	Max WS	TR200_24H_SA2	-6.32	39.35	41.50		41.54	0.001300	-0.96	6.56	3.15	0.21
Calicino	85.5			Culvert									
Calicino	85	Max WS	TR30_9H_SA2	3.40	38.84	40.64	39.41	40.65	0.000290	0.47	7.23	5.85	0.13
Calicino	85	Max WS	TR30_12H_SA2	3.83	38.84	40.77	39.46	40.78	0.000285	0.48	7.96	6.10	0.13
Calicino	85	Max WS	TR30_18H_SA2	0.88	38.84	41.20	39.08	41.20	0.000004	0.07	17.94	29.71	0.02
Calicino	85	Max WS	TR30_24H_SA2	0.99	38.84	40.82	39.11	40.82	0.000017	0.12	8.76	19.38	0.03
Calicino	85	Max WS	TR200_9H_SA2	0.99	38.84	40.87	39.10	40.87	0.000015	0.11	9.65	19.76	0.03

HEC-RAS River: Calicino Reach: Calicino Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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)	
Calicino	85	Max WS	TR200_12H_SA2	0.99	38.84	41.16	39.10	41.16	0.000006	0.08	16.80	28.99	0.02
Calicino	85	Max WS	TR200_18H_SA2	-5.01	38.84	41.68	39.56	41.68	0.000029	-0.21	32.46	30.09	0.05
Calicino	85	Max WS	TR200_24H_SA2	-6.32	38.84	41.85	39.67	41.86	0.000030	-0.23	37.65	30.09	0.05
Calicino	84.9			Lat Struct									
Calicino	84.89			Lat Struct									
Calicino	84.109			Lat Struct									
Calicino	84	Max WS	TR30_9H_SA2	6.93	38.47	40.52	39.29	40.53	0.000258	0.53	15.35	16.00	0.14
Calicino	84	Max WS	TR30_12H_SA2	8.59	38.47	40.62	39.40	40.64	0.000303	0.60	16.99	16.33	0.16
Calicino	84	Max WS	TR30_18H_SA2	0.55	38.47	41.20	38.65	41.20	0.000000	0.02	26.93	18.24	0.01
Calicino	84	Max WS	TR30_24H_SA2	0.97	38.47	40.82	38.72	40.82	0.000002	0.06	20.29	16.99	0.01
Calicino	84	Max WS	TR200_9H_SA2	0.84	38.47	40.87	38.70	40.87	0.000002	0.05	21.09	17.15	0.01
Calicino	84	Max WS	TR200_12H_SA2	0.86	38.47	41.16	38.71	41.16	0.000001	0.04	26.22	18.11	0.01
Calicino	84	Max WS	TR200_18H_SA2	2.34	38.47	41.69	38.91	41.69	0.000003	0.07	36.31	19.88	0.02
Calicino	84	Max WS	TR200_24H_SA2	6.20	38.47	41.86	39.24	41.86	0.000015	0.18	39.84	23.57	0.04
Calicino	83	Max WS	TR30_9H_SA2	6.13	38.30	40.45	39.12	40.47	0.000474	0.67	9.14	6.28	0.18
Calicino	83	Max WS	TR30_12H_SA2	8.55	38.30	40.51	39.29	40.55	0.000820	0.90	9.55	6.40	0.23
Calicino	83	Max WS	TR30_18H_SA2	0.28	38.30	41.20	38.43	41.20	0.000000	0.02	20.60	20.71	0.00
Calicino	83	Max WS	TR30_24H_SA2	0.96	38.30	40.82	38.57	40.82	0.000006	0.08	13.07	17.79	0.02
Calicino	83	Max WS	TR200_9H_SA2	0.83	38.30	40.87	38.55	40.87	0.000004	0.07	13.95	19.59	0.02
Calicino	83	Max WS	TR200_12H_SA2	0.74	38.30	41.16	38.53	41.16	0.000001	0.05	19.80	20.58	0.01
Calicino	83	Max WS	TR200_18H_SA2	2.00	38.30	41.69	38.72	41.69	0.000003	0.08	31.74	26.24	0.02
Calicino	83	Max WS	TR200_24H_SA2	4.00	38.30	41.86	38.94	41.86	0.000010	0.14	36.20	26.63	0.03
Calicino	82.7			Lat Struct									
Calicino	82.34	Max WS	TR30_9H_SA2	6.08	38.45	40.43	39.12	40.44	0.000206	0.47	14.52	16.15	0.13
Calicino	82.34	Max WS	TR30_12H_SA2	4.34	38.45	40.50	39.00	40.50	0.000087	0.31	15.70	16.24	0.08
Calicino	82.34	Max WS	TR30_18H_SA2	0.24	38.45	41.20	38.58	41.20	0.000000	0.01	27.32	17.11	0.00
Calicino	82.34	Max WS	TR30_24H_SA2	0.96	38.45	40.82	38.70	40.82	0.000002	0.05	20.95	16.64	0.01
Calicino	82.34	Max WS	TR200_9H_SA2	0.83	38.45	40.87	38.68	40.87	0.000001	0.04	21.73	16.70	0.01
Calicino	82.34	Max WS	TR200_12H_SA2	0.73	38.45	41.16	38.67	41.16	0.000001	0.03	26.65	17.06	0.01
Calicino	82.34	Max WS	TR200_18H_SA2	-1.65	38.45	41.69	38.78	41.69	0.000001	-0.05	42.12	24.32	0.01
Calicino	82.34	Max WS	TR200_24H_SA2	1.95	38.45	41.86	38.81	41.86	0.000001	0.05	46.24	24.32	0.01
Calicino	82.33	Max WS	TR30_9H_SA2	5.43	38.36	40.42	39.06	40.43	0.000185	0.45	13.55	15.23	0.12

Reach	River Sta	Profile	Plan	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)	
Calicino	82.33	Max WS	TR30_12H_SA2	4.46	38.36	40.49	38.99	40.50	0.000103	0.34	14.69	15.36	0.09
Calicino	82.33	Max WS	TR30_18H_SA2	-0.08	38.36	41.20	38.48	41.20	0.000000	0.00	31.34	21.00	0.00
Calicino	82.33	Max WS	TR30_24H_SA2	0.80	38.36	40.82	38.65	40.82	0.000001	0.04	23.42	21.00	0.01
Calicino	82.33	Max WS	TR200_9H_SA2	0.58	38.36	40.87	38.62	40.87	0.000001	0.03	24.41	21.00	0.01
Calicino	82.33	Max WS	TR200_12H_SA2	0.07	38.36	41.16	38.47	41.16	0.000000	0.00	30.52	21.00	0.00
Calicino	82.33	Max WS	TR200_18H_SA2	-1.18	38.36	41.69	38.70	41.69	0.000000	-0.04	41.70	21.00	0.01
Calicino	82.33	Max WS	TR200_24H_SA2	1.69	38.36	41.86	38.76	41.86	0.000001	0.05	45.25	21.00	0.01
Calicino	82.329			Lat Struct									
Calicino	82.32	Max WS	TR30_9H_SA2	5.35	38.40	40.41	39.07	40.42	0.000139	0.40	16.10	18.84	0.11
Calicino	82.32	Max WS	TR30_12H_SA2	3.87	38.40	40.49	38.97	40.50	0.000057	0.27	17.60	18.84	0.07
Calicino	82.32	Max WS	TR30_18H_SA2	-0.19	38.40	41.20	38.56	41.20	0.000000	-0.01	30.81	18.84	0.00
Calicino	82.32	Max WS	TR30_24H_SA2	0.79	38.40	40.82	38.68	40.82	0.000001	0.04	23.71	18.84	0.01
Calicino	82.32	Max WS	TR200_9H_SA2	0.51	38.40	40.87	38.64	40.87	0.000000	0.03	24.60	18.84	0.01
Calicino	82.32	Max WS	TR200_12H_SA2	-0.29	38.40	41.16	38.59	41.16	0.000000	-0.01	30.07	18.84	0.00
Calicino	82.32	Max WS	TR200_18H_SA2	-1.18	38.40	41.69	38.73	41.69	0.000001	-0.04	40.11	18.84	0.01
Calicino	82.32	Max WS	TR200_24H_SA2	1.69	38.40	41.86	38.79	41.86	0.000001	0.05	43.29	18.84	0.01
Calicino	82.31	Max WS	TR30_9H_SA2	5.31	38.34	40.41	39.09	40.42	0.000190	0.46	12.89	16.33	0.12
Calicino	82.31	Max WS	TR30_12H_SA2	3.33	38.34	40.49	38.95	40.49	0.000056	0.26	15.33	19.10	0.07
Calicino	82.31	Max WS	TR30_18H_SA2	-0.34	38.34	41.20	38.57	41.20	0.000000	-0.01	28.77	19.10	0.00
Calicino	82.31	Max WS	TR30_24H_SA2	0.66	38.34	40.82	38.65	40.82	0.000001	0.04	21.57	19.10	0.01
Calicino	82.31	Max WS	TR200_9H_SA2	0.25	38.34	40.87	38.55	40.87	0.000000	0.01	22.46	19.10	0.00
Calicino	82.31	Max WS	TR200_12H_SA2	-0.60	38.34	41.16	38.64	41.16	0.000000	-0.03	28.02	19.10	0.01
Calicino	82.31	Max WS	TR200_18H_SA2	-1.14	38.34	41.69	38.73	41.69	0.000001	-0.04	38.19	19.10	0.01
Calicino	82.31	Max WS	TR200_24H_SA2	1.51	38.34	41.86	38.78	41.86	0.000001	0.05	41.42	19.10	0.01
Calicino	82.309			Lat Struct									
Calicino	82.30	Max WS	TR30_9H_SA2	5.83	38.22	40.40	39.10	40.41	0.000218	0.48	13.71	15.37	0.13
Calicino	82.30	Max WS	TR30_12H_SA2	3.62	38.22	40.49	38.93	40.49	0.000062	0.27	16.02	18.51	0.07
Calicino	82.30	Max WS	TR30_18H_SA2	-0.48	38.22	41.20	38.54	41.20	0.000000	-0.02	29.10	18.51	0.00
Calicino	82.30	Max WS	TR30_24H_SA2	0.53	38.22	40.82	38.55	40.82	0.000001	0.03	22.12	18.51	0.01
Calicino	82.30	Max WS	TR200_9H_SA2	-0.05	38.22	40.87	38.35	40.87	0.000000	0.00	22.99	18.51	0.00
Calicino	82.30	Max WS	TR200_12H_SA2	-0.87	38.22	41.16	38.62	41.16	0.000001	-0.04	28.37	18.51	0.01
Calicino	82.30	Max WS	TR200_18H_SA2	-1.06	38.22	41.69	38.65	41.69	0.000000	-0.03	38.23	18.51	0.01
Calicino	82.30	Max WS	TR200_24H_SA2	1.29	38.22	41.86	38.69	41.86	0.000001	0.04	41.36	18.51	0.01
Calicino	82.29	Max WS	TR30_9H_SA2	5.33	38.34	40.39	39.01	40.40	0.000147	0.39	15.79	16.70	0.11

Reach	River Sta	Profile	Plan	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)	
Calicino	82.29	Max WS	TR30_12H_SA2	3.56	38.34	40.49	38.88	40.49	0.000050	0.23	17.41	16.88	0.06
Calicino	82.29	Max WS	TR30_18H_SA2	-0.48	38.34	41.20	38.53	41.20	0.000000	-0.02	33.31	21.57	0.00
Calicino	82.29	Max WS	TR30_24H_SA2	0.53	38.34	40.82	38.54	40.82	0.000000	0.03	25.17	21.57	0.01
Calicino	82.29	Max WS	TR200_9H_SA2	-0.10	38.34	40.87	38.44	40.87	0.000000	0.00	26.18	21.57	0.00
Calicino	82.29	Max WS	TR200_12H_SA2	-0.82	38.34	41.16	38.59	41.16	0.000001	-0.03	32.46	21.57	0.01
Calicino	82.29	Max WS	TR200_18H_SA2	-1.10	38.34	41.69	38.63	41.69	0.000000	-0.03	43.95	21.57	0.01
Calicino	82.29	Max WS	TR200_24H_SA2	1.29	38.34	41.86	38.65	41.86	0.000000	0.03	47.59	21.57	0.01
Calicino	82.289			Lat Struct									
Calicino	82.28	Max WS	TR30_9H_SA2	3.03	38.45	40.39	38.88	40.39	0.000040	0.21	17.67	19.01	0.06
Calicino	82.28	Max WS	TR30_12H_SA2	3.46	38.45	40.49	38.91	40.49	0.000039	0.21	19.60	20.35	0.06
Calicino	82.28	Max WS	TR30_18H_SA2	-0.54	38.45	41.20	38.62	41.20	0.000000	-0.02	36.46	22.68	0.00
Calicino	82.28	Max WS	TR30_24H_SA2	0.54	38.45	40.82	38.62	40.82	0.000000	0.02	27.91	22.68	0.01
Calicino	82.28	Max WS	TR200_9H_SA2	-0.16	38.45	40.87	38.55	40.87	0.000000	-0.01	28.98	22.68	0.00
Calicino	82.28	Max WS	TR200_12H_SA2	-0.82	38.45	41.16	38.66	41.16	0.000000	-0.03	35.57	22.68	0.01
Calicino	82.28	Max WS	TR200_18H_SA2	-1.32	38.45	41.69	38.72	41.69	0.000000	-0.03	47.66	22.68	0.01
Calicino	82.28	Max WS	TR200_24H_SA2	1.29	38.45	41.86	38.72	41.86	0.000000	0.03	51.49	22.68	0.01
Calicino	82.27	Max WS	TR30_9H_SA2	3.16	38.32	40.39	38.76	40.39	0.000039	0.21	17.69	20.80	0.06
Calicino	82.27	Max WS	TR30_12H_SA2	4.07	38.32	40.48	38.82	40.49	0.000050	0.25	19.74	22.03	0.06
Calicino	82.27	Max WS	TR30_18H_SA2	-0.68	38.32	41.20	38.52	41.20	0.000000	-0.02	38.91	26.43	0.00
Calicino	82.27	Max WS	TR30_24H_SA2	0.42	38.32	40.82	38.48	40.82	0.000000	0.02	28.94	26.43	0.00
Calicino	82.27	Max WS	TR200_9H_SA2	-0.44	38.32	40.87	38.48	40.87	0.000000	-0.02	30.18	26.43	0.00
Calicino	82.27	Max WS	TR200_12H_SA2	-1.10	38.32	41.16	38.57	41.16	0.000001	-0.04	37.87	26.43	0.01
Calicino	82.27	Max WS	TR200_18H_SA2	-1.49	38.32	41.69	38.61	41.69	0.000001	-0.04	51.95	26.43	0.01
Calicino	82.27	Max WS	TR200_24H_SA2	1.08	38.32	41.86	38.57	41.86	0.000000	0.02	56.42	26.43	0.00
Calicino	82.26	Max WS	TR30_9H_SA2	3.15	38.38	40.39	38.78	40.39	0.000049	0.23	13.85	11.09	0.06
Calicino	82.26	Max WS	TR30_12H_SA2	4.07	38.38	40.48	38.84	40.48	0.000043	0.22	22.61	25.29	0.06
Calicino	82.26	Max WS	TR30_18H_SA2	-0.72	38.38	41.20	38.56	41.20	0.000000	-0.02	46.84	30.24	0.00
Calicino	82.26	Max WS	TR30_24H_SA2	0.44	38.38	40.82	38.53	40.82	0.000000	0.02	35.44	30.24	0.00
Calicino	82.26	Max WS	TR200_9H_SA2	-0.45	38.38	40.87	38.53	40.87	0.000000	-0.02	36.86	30.24	0.00
Calicino	82.26	Max WS	TR200_12H_SA2	-1.10	38.38	41.16	38.61	41.16	0.000001	-0.03	45.65	30.24	0.01
Calicino	82.26	Max WS	TR200_18H_SA2	-1.72	38.38	41.69	38.66	41.69	0.000000	-0.04	61.77	30.24	0.01
Calicino	82.26	Max WS	TR200_24H_SA2	1.09	38.38	41.86	38.61	41.86	0.000000	0.02	66.87	30.24	0.00
Calicino	81.25	Max WS	TR30_9H_SA2	3.19	38.32	40.38	38.72	40.38	0.000004	0.08	61.07	75.47	0.02
Calicino	81.25	Max WS	TR30_12H_SA2	3.64	38.32	40.48	38.74	40.48	0.000004	0.08	68.39	75.47	0.02
Calicino	81.25	Max WS	TR30_18H_SA2	-0.82	38.32	41.20	38.53	41.20	0.000000	-0.01	122.29	75.47	0.00

HEC-RAS River: Calicino Reach: Calicino Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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)	
Calicino	81.25	Max WS	TR30_24H_SA2	0.36	38.32	40.82	38.46	40.82	0.000000	0.01	93.83	75.47	0.00
Calicino	81.25	Max WS	TR200_9H_SA2	-0.63	38.32	40.87	38.51	40.87	0.000000	-0.01	97.37	75.47	0.00
Calicino	81.25	Max WS	TR200_12H_SA2	-1.32	38.32	41.16	38.58	41.16	0.000000	-0.01	119.32	75.47	0.00
Calicino	81.25	Max WS	TR200_18H_SA2	-1.77	38.32	41.69	38.62	41.69	0.000000	-0.01	159.53	75.47	0.00
Calicino	81.25	Max WS	TR200_24H_SA2	0.89	38.32	41.86	38.54	41.86	0.000000	0.01	172.27	75.47	0.00
Calicino	81.24	Max WS	TR30_9H_SA2	2.83	38.32	40.38	38.76	40.38	0.000036	0.20	15.99	22.27	0.05
Calicino	81.24	Max WS	TR30_12H_SA2	1.94	38.32	40.48	38.68	40.48	0.000013	0.12	18.23	22.27	0.03
Calicino	81.24	Max WS	TR30_18H_SA2	-0.82	38.32	41.20	38.54	41.20	0.000000	-0.03	34.09	22.27	0.01
Calicino	81.24	Max WS	TR30_24H_SA2	0.36	38.32	40.82	38.47	40.82	0.000000	0.02	25.70	22.27	0.00
Calicino	81.24	Max WS	TR200_9H_SA2	-0.63	38.32	40.87	38.52	40.87	0.000001	-0.03	26.74	22.27	0.01
Calicino	81.24	Max WS	TR200_12H_SA2	-1.29	38.32	41.16	38.61	41.16	0.000001	-0.05	33.22	22.27	0.01
Calicino	81.24	Max WS	TR200_18H_SA2	-1.77	38.32	41.69	38.66	41.69	0.000001	-0.05	45.08	22.27	0.01
Calicino	81.24	Max WS	TR200_24H_SA2	0.89	38.32	41.86	38.56	41.86	0.000000	0.02	48.84	22.27	0.00
Calicino	81.23	Max WS	TR30_9H_SA2	2.50	38.25	40.38	38.73	40.38	0.000028	0.18	14.86	18.83	0.05
Calicino	81.23	Max WS	TR30_12H_SA2	0.52	38.25	40.48	38.49	40.48	0.000001	0.03	16.98	22.33	0.01
Calicino	81.23	Max WS	TR30_18H_SA2	-0.92	38.25	41.20	38.55	41.20	0.000001	-0.03	32.86	22.33	0.01
Calicino	81.23	Max WS	TR30_24H_SA2	0.30	38.25	40.82	38.45	40.82	0.000000	0.01	24.44	22.33	0.00
Calicino	81.23	Max WS	TR200_9H_SA2	-0.81	38.25	40.87	38.54	40.87	0.000001	-0.04	25.49	22.33	0.01
Calicino	81.23	Max WS	TR200_12H_SA2	-1.40	38.25	41.16	38.61	41.16	0.000001	-0.05	31.98	22.33	0.01
Calicino	81.23	Max WS	TR200_18H_SA2	-1.77	38.25	41.69	38.65	41.69	0.000001	-0.05	43.89	22.33	0.01
Calicino	81.23	Max WS	TR200_24H_SA2	0.72	38.25	41.86	38.52	41.86	0.000000	0.02	47.65	22.33	0.00
Calicino	81.22	Max WS	TR30_9H_SA2	1.96	38.14	40.38	38.57	40.38	0.000021	0.16	14.78	16.13	0.04
Calicino	81.22	Max WS	TR30_12H_SA2	-1.59	38.14	40.48	38.52	40.48	0.000011	-0.11	16.43	16.13	0.03
Calicino	81.22	Max WS	TR30_18H_SA2	-0.94	38.14	41.20	38.44	41.20	0.000001	-0.04	27.91	16.13	0.01
Calicino	81.22	Max WS	TR30_24H_SA2	0.33	38.14	40.82	38.33	40.82	0.000000	0.02	21.83	16.13	0.00
Calicino	81.22	Max WS	TR200_9H_SA2	-0.80	38.14	40.87	38.41	40.87	0.000001	-0.04	22.59	16.13	0.01
Calicino	81.22	Max WS	TR200_12H_SA2	-1.39	38.14	41.16	38.50	41.16	0.000002	-0.06	27.28	16.13	0.01
Calicino	81.22	Max WS	TR200_18H_SA2	-2.16	38.14	41.69	38.59	41.69	0.000002	-0.07	35.87	16.13	0.01
Calicino	81.22	Max WS	TR200_24H_SA2	0.77	38.14	41.86	38.41	41.86	0.000000	0.02	38.59	16.13	0.00
Calicino	81.21	Max WS	TR30_9H_SA2	0.41	38.03	40.38	38.22	40.38	0.000000	0.02	19.04	19.14	0.01
Calicino	81.21	Max WS	TR30_12H_SA2	-4.47	38.03	40.48		40.48	0.000046	-0.25	20.92	19.14	0.06
Calicino	81.21	Max WS	TR30_18H_SA2	-1.07	38.03	41.20		41.20	0.000001	-0.04	34.59	19.14	0.01
Calicino	81.21	Max WS	TR30_24H_SA2	0.44	38.03	40.82	38.22	40.82	0.000000	0.02	27.37	19.14	0.00
Calicino	81.21	Max WS	TR200_9H_SA2	-0.80	38.03	40.87		40.87	0.000001	-0.03	28.27	19.14	0.01
Calicino	81.21	Max WS	TR200_12H_SA2	-1.37	38.03	41.16		41.16	0.000001	-0.05	33.83	19.14	0.01
Calicino	81.21	Max WS	TR200_18H_SA2	-2.89	38.03	41.69		41.69	0.000002	-0.08	44.04	19.14	0.01

Reach	River Sta	Profile	Plan	Q Total	Min Ch EI	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)	
Calicino	81.21	Max WS	TR200_24H_SA2	1.64	38.03	41.86	38.38	41.86	0.000001	0.04	47.26	19.14	0.01
Calicino	80.5			Bridge									
Calicino	80.20	Max WS	TR30_9H_SA2	0.41	38.08	40.38	38.24	40.38	0.000000	0.02	25.10	24.76	0.01
Calicino	80.20	Max WS	TR30_12H_SA2	-4.47	38.08	40.49	38.73	40.49	0.000031	-0.20	27.68	24.76	0.05
Calicino	80.20	Max WS	TR30_18H_SA2	-1.10	38.08	41.20	38.37	41.20	0.000000	-0.03	45.23	24.76	0.01
Calicino	80.20	Max WS	TR30_24H_SA2	0.44	38.08	40.82	38.25	40.82	0.000000	0.02	35.89	24.76	0.00
Calicino	80.20	Max WS	TR200_9H_SA2	-0.80	38.08	40.87	38.32	40.87	0.000000	-0.03	37.05	24.76	0.01
Calicino	80.20	Max WS	TR200_12H_SA2	-1.37	38.08	41.16	38.41	41.16	0.000001	-0.04	44.25	24.76	0.01
Calicino	80.20	Max WS	TR200_18H_SA2	-2.89	38.08	41.69	38.59	41.69	0.000001	-0.06	57.45	24.76	0.01
Calicino	80.20	Max WS	TR200_24H_SA2	1.64	38.08	41.86	38.44	41.86	0.000000	0.03	61.63	24.76	0.01
Calicino	80	Max WS	TR30_9H_SA2	0.43	38.62	40.38	38.75	40.38	0.000002	0.04	9.92	8.27	0.01
Calicino	80	Max WS	TR30_12H_SA2	-4.48	38.62	40.49	39.19	40.50	0.000181	-0.41	10.82	8.46	0.12
Calicino	80	Max WS	TR30_18H_SA2	-1.15	38.62	41.19	38.87	41.20	0.000003	-0.07	16.80	8.49	0.02
Calicino	80	Max WS	TR30_24H_SA2	0.44	38.62	40.82	38.76	40.82	0.000001	0.03	13.60	8.49	0.01
Calicino	80	Max WS	TR200_9H_SA2	-0.85	38.62	40.86	38.82	40.86	0.000003	-0.06	14.00	8.49	0.02
Calicino	80	Max WS	TR200_12H_SA2	-1.41	38.62	41.16	38.90	41.16	0.000005	-0.09	16.46	8.49	0.02
Calicino	80	Max WS	TR200_18H_SA2	-2.88	38.62	41.69	39.06	41.69	0.000011	-0.14	20.99	8.49	0.03
Calicino	80	Max WS	TR200_24H_SA2	1.66	38.62	41.86	38.93	41.86	0.000003	0.07	22.42	8.49	0.01
Calicino	79.9			Lat Struct									
Calicino	79.89			Lat Struct									
Calicino	79.19	Max WS	TR30_9H_SA2	0.43	38.00	40.38	38.18	40.38	0.000000	0.02	24.85	18.40	0.00
Calicino	79.19	Max WS	TR30_12H_SA2	-4.53	38.00	40.51	38.57	40.51	0.000022	-0.17	28.89	24.80	0.04
Calicino	79.19	Max WS	TR30_18H_SA2	-1.27	38.00	41.20	38.29	41.20	0.000000	-0.03	48.85	29.63	0.01
Calicino	79.19	Max WS	TR30_24H_SA2	0.31	38.00	40.82	38.16	40.82	0.000000	0.01	37.67	29.63	0.00
Calicino	79.19	Max WS	TR200_9H_SA2	-1.66	38.00	40.86	38.33	40.86	0.000001	-0.05	39.05	29.63	0.01
Calicino	79.19	Max WS	TR200_12H_SA2	-2.36	38.00	41.16	38.40	41.16	0.000002	-0.06	47.67	29.63	0.01
Calicino	79.19	Max WS	TR200_18H_SA2	-1.01	38.00	41.69	38.26	41.69	0.000000	-0.02	63.52	29.63	0.00
Calicino	79.19	Max WS	TR200_24H_SA2	1.27	38.00	41.86	38.29	41.86	0.000000	0.02	68.47	29.63	0.00
Calicino	79.18	Max WS	TR30_9H_SA2	0.43	38.02	40.38	38.16	40.38	0.000000	0.03	19.21	13.62	0.01
Calicino	79.18	Max WS	TR30_12H_SA2	-4.53	38.02	40.51	38.56	40.51	0.000040	-0.27	22.69	21.98	0.06
Calicino	79.18	Max WS	TR30_18H_SA2	-1.51	38.02	41.20	38.30	41.20	0.000001	-0.05	39.39	24.36	0.01
Calicino	79.18	Max WS	TR30_24H_SA2	0.31	38.02	40.82	38.13	40.82	0.000000	0.01	30.20	24.36	0.00
Calicino	79.18	Max WS	TR200_9H_SA2	-1.68	38.02	40.86	38.32	40.86	0.000003	-0.08	31.32	24.36	0.02

HEC-RAS River: Calicino Reach: Calicino Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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)	
Calicino	79.18	Max WS	TR200_12H_SA2	-2.66	38.02	41.16	38.41	41.16	0.000004	-0.10	38.41	24.36	0.02
Calicino	79.18	Max WS	TR200_18H_SA2	-1.96	38.02	41.69	38.35	41.69	0.000001	-0.05	51.43	24.36	0.01
Calicino	79.18	Max WS	TR200_24H_SA2	1.27	38.02	41.86	38.27	41.86	0.000000	0.03	55.50	24.36	0.01
Calicino	78.17	Max WS	TR30_9H_SA2	0.43	38.14	40.38	38.26	40.38	0.000000	0.02	23.45	17.69	0.01
Calicino	78.17	Max WS	TR30_12H_SA2	-4.47	38.14	40.51	38.70	40.51	0.000032	-0.22	26.04	25.41	0.05
Calicino	78.17	Max WS	TR30_18H_SA2	-1.84	38.14	41.20	38.46	41.20	0.000001	-0.05	47.94	28.84	0.01
Calicino	78.17	Max WS	TR30_24H_SA2	0.23	38.14	40.82	38.22	40.82	0.000000	0.01	37.06	28.84	0.00
Calicino	78.17	Max WS	TR200_9H_SA2	-1.75	38.14	40.86	38.45	40.86	0.000002	-0.06	38.39	28.84	0.01
Calicino	78.17	Max WS	TR200_12H_SA2	-2.86	38.14	41.16	38.56	41.16	0.000003	-0.08	46.78	28.84	0.02
Calicino	78.17	Max WS	TR200_18H_SA2	-2.64	38.14	41.69	38.54	41.69	0.000001	-0.05	62.20	28.84	0.01
Calicino	78.17	Max WS	TR200_24H_SA2	0.84	38.14	41.86	38.33	41.86	0.000000	0.02	67.03	28.84	0.00
Calicino	78.16	Max WS	TR30_9H_SA2	0.44	38.13	40.38	38.30	40.38	0.000000	0.03	20.45	15.06	0.01
Calicino	78.16	Max WS	TR30_12H_SA2	-4.47	38.13	40.51	38.72	40.51	0.000033	-0.24	24.73	23.63	0.05
Calicino	78.16	Max WS	TR30_18H_SA2	-2.02	38.13	41.20	38.50	41.20	0.000002	-0.07	42.53	26.08	0.01
Calicino	78.16	Max WS	TR30_24H_SA2	0.25	38.13	40.82	38.27	40.82	0.000000	0.01	32.68	26.08	0.00
Calicino	78.16	Max WS	TR200_9H_SA2	-1.62	38.13	40.86	38.46	40.86	0.000002	-0.07	33.89	26.08	0.01
Calicino	78.16	Max WS	TR200_12H_SA2	-2.91	38.13	41.16	38.59	41.16	0.000004	-0.10	41.48	26.08	0.02
Calicino	78.16	Max WS	TR200_18H_SA2	-3.22	38.13	41.69	38.62	41.69	0.000002	-0.08	55.43	26.08	0.01
Calicino	78.16	Max WS	TR200_24H_SA2	0.88	38.13	41.86	38.37	41.86	0.000000	0.02	59.79	26.08	0.00
Calicino	77	Max WS	TR30_9H_SA2	0.44	37.88	40.38	38.07	40.38	0.000000	0.02	21.86	17.78	0.01
Calicino	77	Max WS	TR30_12H_SA2	-4.48	37.88	40.51	38.46	40.51	0.000030	-0.23	24.14	18.00	0.05
Calicino	77	Max WS	TR30_18H_SA2	-2.13	37.88	41.20	38.27	41.20	0.000002	-0.07	40.00	22.81	0.01
Calicino	77	Max WS	TR30_24H_SA2	0.28	37.88	40.82	38.04	40.82	0.000000	0.01	31.39	22.81	0.00
Calicino	77	Max WS	TR200_9H_SA2	-1.63	37.88	40.86	38.22	40.86	0.000002	-0.06	32.44	22.81	0.01
Calicino	77	Max WS	TR200_12H_SA2	-3.16	37.88	41.15	38.36	41.16	0.000004	-0.10	39.08	22.81	0.02
Calicino	77	Max WS	TR200_18H_SA2	-3.44	37.88	41.69	38.38	41.69	0.000002	-0.09	51.29	22.81	0.02
Calicino	77	Max WS	TR200_24H_SA2	0.90	37.88	41.86	38.13	41.86	0.000000	0.02	55.10	22.81	0.00
Calicino	76.99			Lat Struct									
Calicino	76.98			Lat Struct									
Calicino	76.55			Lat Struct									
Calicino	76.15	Max WS	TR30_9H_SA2	0.83	37.88	40.38	38.13	40.38	0.000001	0.05	21.34	17.77	0.01
Calicino	76.15	Max WS	TR30_12H_SA2	-4.14	37.88	40.51	38.44	40.51	0.000028	-0.24	23.63	18.00	0.05
Calicino	76.15	Max WS	TR30_18H_SA2	-2.40	37.88	41.19	38.30	41.20	0.000003	-0.09	39.47	22.81	0.02

Reach	River Sta	Profile	Plan	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)	
Calicino	76.15	Max WS	TR30_24H_SA2	0.17	37.88	40.82	38.01	40.82	0.000000	0.01	30.86	22.81	0.00
Calicino	76.15	Max WS	TR200_9H_SA2	-1.75	37.88	40.86	38.23	40.86	0.000003	-0.08	31.91	22.81	0.02
Calicino	76.15	Max WS	TR200_12H_SA2	-3.34	37.88	41.15	38.38	41.15	0.000006	-0.13	38.54	22.81	0.02
Calicino	76.15	Max WS	TR200_18H_SA2	-3.51	37.88	41.69	38.39	41.69	0.000003	-0.10	50.76	22.81	0.02
Calicino	76.15	Max WS	TR200_24H_SA2	0.10	37.88	41.86	37.99	41.86	0.000000	0.00	54.57	22.81	0.00
Calicino	76.14	Max WS	TR30_9H_SA2	0.83	37.81	40.38	38.10	40.38	0.000002	0.06	17.63	15.20	0.01
Calicino	76.14	Max WS	TR30_12H_SA2	-4.13	37.81	40.51	38.44	40.51	0.000033	-0.27	19.60	15.42	0.06
Calicino	76.14	Max WS	TR30_18H_SA2	-2.26	37.81	41.19	38.27	41.20	0.000003	-0.09	36.42	21.79	0.02
Calicino	76.14	Max WS	TR30_24H_SA2	0.17	37.81	40.82	37.96	40.82	0.000000	0.01	28.19	21.79	0.00
Calicino	76.14	Max WS	TR200_9H_SA2	-1.41	37.81	40.86	38.18	40.86	0.000002	-0.07	29.19	21.79	0.01
Calicino	76.14	Max WS	TR200_12H_SA2	-2.67	37.81	41.15	38.31	41.15	0.000004	-0.11	35.54	21.79	0.02
Calicino	76.14	Max WS	TR200_18H_SA2	-3.61	37.81	41.69	38.40	41.69	0.000003	-0.11	47.20	21.79	0.02
Calicino	76.14	Max WS	TR200_24H_SA2	0.10	37.81	41.86	37.93	41.86	0.000000	0.00	50.85	21.79	0.00
Calicino	76.13	Max WS	TR30_9H_SA2	1.63	37.87	40.38	38.22	40.38	0.000005	0.09	22.57	17.84	0.02
Calicino	76.13	Max WS	TR30_12H_SA2	-3.60	37.87	40.51	38.43	40.52	0.000017	-0.19	27.33	23.44	0.04
Calicino	76.13	Max WS	TR30_18H_SA2	-2.49	37.87	41.19	38.32	41.20	0.000002	-0.08	43.96	24.44	0.02
Calicino	76.13	Max WS	TR30_24H_SA2	0.03	37.87	40.82	37.93	40.82	0.000000	0.00	34.73	24.44	0.00
Calicino	76.13	Max WS	TR200_9H_SA2	-1.96	37.87	40.86	38.26	40.86	0.000003	-0.08	35.84	24.44	0.02
Calicino	76.13	Max WS	TR200_12H_SA2	-3.08	37.87	41.15	38.38	41.15	0.000004	-0.10	42.96	24.44	0.02
Calicino	76.13	Max WS	TR200_18H_SA2	-4.08	37.87	41.69	38.47	41.69	0.000003	-0.11	56.06	24.44	0.02
Calicino	76.13	Max WS	TR200_24H_SA2	-0.35	37.87	41.86	38.03	41.86	0.000000	-0.01	60.14	24.44	0.00
Calicino	76.12	Max WS	TR30_9H_SA2	1.63	37.79	40.38	38.12	40.38	0.000005	0.10	22.30	18.30	0.02
Calicino	76.12	Max WS	TR30_12H_SA2	-3.61	37.79	40.51	38.32	40.52	0.000019	-0.19	27.08	25.28	0.04
Calicino	76.12	Max WS	TR30_18H_SA2	-2.62	37.79	41.19	38.23	41.19	0.000003	-0.09	44.28	25.28	0.02
Calicino	76.12	Max WS	TR30_24H_SA2	0.03	37.79	40.82	37.83	40.82	0.000000	0.00	34.74	25.28	0.00
Calicino	76.12	Max WS	TR200_9H_SA2	-2.05	37.79	40.86	38.17	40.86	0.000003	-0.08	35.88	25.28	0.02
Calicino	76.12	Max WS	TR200_12H_SA2	-3.23	37.79	41.15	38.29	41.15	0.000004	-0.11	43.24	25.28	0.02
Calicino	76.12	Max WS	TR200_18H_SA2	-4.51	37.79	41.69	38.40	41.69	0.000004	-0.11	56.80	25.28	0.02
Calicino	76.12	Max WS	TR200_24H_SA2	-0.15	37.79	41.86	37.88	41.86	0.000000	0.00	61.02	25.28	0.00
Calicino	76.11	Max WS	TR30_9H_SA2	1.63	37.70	40.38	38.13	40.38	0.000005	0.09	22.40	17.36	0.02
Calicino	76.11	Max WS	TR30_12H_SA2	-3.61	37.70	40.52	38.35	40.52	0.000020	-0.18	24.87	19.72	0.04
Calicino	76.11	Max WS	TR30_18H_SA2	-2.69	37.70	41.19	38.26	41.19	0.000003	-0.08	42.75	23.59	0.02
Calicino	76.11	Max WS	TR30_24H_SA2	0.03	37.70	40.82	37.79	40.82	0.000000	0.00	33.84	23.59	0.00
Calicino	76.11	Max WS	TR200_9H_SA2	-2.68	37.70	40.86	38.25	40.86	0.000005	-0.10	34.90	23.59	0.02
Calicino	76.11	Max WS	TR200_12H_SA2	-4.15	37.70	41.15	38.40	41.15	0.000008	-0.13	41.78	23.59	0.03
Calicino	76.11	Max WS	TR200_18H_SA2	-4.81	37.70	41.69	38.45	41.69	0.000005	-0.12	54.44	23.59	0.02

Reach	River Sta	Profile	Plan	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)	
Calicino	76.11	Max WS	TR200_24H_SA2	-0.02	37.70	41.86	37.78	41.86	0.000000	0.00	58.37	23.59	0.00
Calicino	76.10	Max WS	TR30_9H_SA2	2.47	37.52	40.38	38.04	40.38	0.000010	0.14	21.28	17.30	0.03
Calicino	76.10	Max WS	TR30_12H_SA2	-3.09	37.52	40.52	38.10	40.52	0.000012	-0.16	23.82	19.04	0.03
Calicino	76.10	Max WS	TR30_18H_SA2	-2.91	37.52	41.19	38.08	41.19	0.000004	-0.10	36.74	19.04	0.02
Calicino	76.10	Max WS	TR30_24H_SA2	-0.03	37.52	40.82	37.60	40.82	0.000000	0.00	29.56	19.04	0.00
Calicino	76.10	Max WS	TR200_9H_SA2	-2.90	37.52	40.86	38.08	40.86	0.000006	-0.12	30.40	19.04	0.02
Calicino	76.10	Max WS	TR200_12H_SA2	-4.52	37.52	41.15	38.21	41.15	0.000009	-0.17	35.94	19.04	0.03
Calicino	76.10	Max WS	TR200_18H_SA2	-5.03	37.52	41.69	38.24	41.69	0.000006	-0.15	46.17	19.04	0.02
Calicino	76.10	Max WS	TR200_24H_SA2	-0.57	37.52	41.86	37.81	41.86	0.000000	-0.02	49.35	19.04	0.00
Calicino	76.09	Max WS	TR30_9H_SA2	2.47	37.74	40.38	38.22	40.38	0.000007	0.12	27.99	20.61	0.03
Calicino	76.09	Max WS	TR30_12H_SA2	-3.10	37.74	40.52	38.28	40.52	0.000008	-0.14	30.89	22.26	0.03
Calicino	76.09	Max WS	TR30_18H_SA2	-2.91	37.74	41.19	38.26	41.19	0.000002	-0.09	46.62	23.26	0.02
Calicino	76.09	Max WS	TR30_24H_SA2	-0.03	37.74	40.82	37.81	40.82	0.000000	0.00	37.84	23.26	0.00
Calicino	76.09	Max WS	TR200_9H_SA2	-3.00	37.74	40.86	38.27	40.86	0.000004	-0.11	38.88	23.26	0.02
Calicino	76.09	Max WS	TR200_12H_SA2	-4.65	37.74	41.15	38.41	41.15	0.000007	-0.14	45.65	23.26	0.03
Calicino	76.09	Max WS	TR200_18H_SA2	-5.03	37.74	41.69	38.44	41.69	0.000004	-0.12	58.15	23.26	0.02
Calicino	76.09	Max WS	TR200_24H_SA2	-0.57	37.74	41.86	37.98	41.86	0.000000	-0.01	62.02	23.26	0.00
Calicino	76.08	Max WS	TR30_9H_SA2	3.26	37.79	40.38	38.24	40.38	0.000016	0.18	25.31	21.69	0.04
Calicino	76.08	Max WS	TR30_12H_SA2	-2.65	37.79	40.52	38.19	40.52	0.000008	-0.14	28.39	22.55	0.03
Calicino	76.08	Max WS	TR30_18H_SA2	-3.19	37.79	41.19	38.24	41.20	0.000004	-0.11	43.66	22.55	0.02
Calicino	76.08	Max WS	TR30_24H_SA2	-0.08	37.79	40.82	37.83	40.82	0.000000	0.00	35.15	22.55	0.00
Calicino	76.08	Max WS	TR200_9H_SA2	-3.25	37.79	40.86	38.24	40.86	0.000006	-0.13	36.14	22.55	0.02
Calicino	76.08	Max WS	TR200_12H_SA2	-4.98	37.79	41.15	38.38	41.15	0.000009	-0.17	42.71	22.55	0.03
Calicino	76.08	Max WS	TR200_18H_SA2	-5.30	37.79	41.69	38.41	41.69	0.000005	-0.14	54.84	22.55	0.02
Calicino	76.08	Max WS	TR200_24H_SA2	-1.14	37.79	41.86	38.02	41.86	0.000000	-0.03	58.59	22.55	0.00
Calicino	76.07	Max WS	TR30_9H_SA2	4.13	37.74	40.38	38.23	40.38	0.000021	0.21	25.49	19.00	0.04
Calicino	76.07	Max WS	TR30_12H_SA2	-2.24	37.74	40.52	38.08	40.52	0.000005	-0.11	28.30	20.76	0.02
Calicino	76.07	Max WS	TR30_18H_SA2	-3.30	37.74	41.19	38.17	41.19	0.000004	-0.11	42.33	20.76	0.02
Calicino	76.07	Max WS	TR30_24H_SA2	-0.14	37.74	40.82	37.80	40.82	0.000000	-0.01	34.50	20.76	0.00
Calicino	76.07	Max WS	TR200_9H_SA2	-3.30	37.74	40.86	38.17	40.86	0.000006	-0.13	35.41	20.76	0.02
Calicino	76.07	Max WS	TR200_12H_SA2	-5.06	37.74	41.15	38.31	41.15	0.000009	-0.17	41.46	20.76	0.03
Calicino	76.07	Max WS	TR200_18H_SA2	-5.59	37.74	41.69	38.34	41.69	0.000005	-0.15	52.63	20.76	0.02
Calicino	76.07	Max WS	TR200_24H_SA2	-1.71	37.74	41.86	38.02	41.86	0.000000	-0.04	56.08	20.76	0.01
Calicino	76.06	Max WS	TR30_9H_SA2	4.13	37.55	40.38	38.31	40.38	0.000041	0.26	19.19	18.01	0.06
Calicino	76.06	Max WS	TR30_12H_SA2	-2.23	37.55	40.52	38.12	40.52	0.000009	-0.12	21.79	18.34	0.03

Reach	River Sta	Profile	Plan	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)	
Calicino	76.06	Max WS	TR30_18H_SA2	-3.28	37.55	41.19	38.23	41.19	0.000006	-0.12	34.19	18.34	0.02
Calicino	76.06	Max WS	TR30_24H_SA2	-0.14	37.55	40.82	37.74	40.82	0.000000	-0.01	27.28	18.34	0.00
Calicino	76.06	Max WS	TR200_9H_SA2	-3.27	37.55	40.86	38.23	40.86	0.000010	-0.15	28.06	18.34	0.03
Calicino	76.06	Max WS	TR200_12H_SA2	-5.08	37.55	41.15	38.39	41.15	0.000015	-0.19	33.39	18.34	0.04
Calicino	76.06	Max WS	TR200_18H_SA2	-5.59	37.55	41.69	38.43	41.69	0.000009	-0.17	43.28	18.34	0.03
Calicino	76.06	Max WS	TR200_24H_SA2	-1.72	37.55	41.86	38.06	41.86	0.000001	-0.05	46.35	18.34	0.01
Calicino	76.05	Max WS	TR30_9H_SA2	4.96	37.53	40.37	38.17	40.38	0.000038	0.29	22.64	17.44	0.06
Calicino	76.05	Max WS	TR30_12H_SA2	-1.84	37.53	40.52	37.88	40.52	0.000004	-0.10	25.32	18.83	0.02
Calicino	76.05	Max WS	TR30_18H_SA2	-3.33	37.53	41.19	38.03	41.19	0.000005	-0.12	38.03	18.83	0.02
Calicino	76.05	Max WS	TR30_24H_SA2	-0.15	37.53	40.82	37.61	40.82	0.000000	-0.01	30.94	18.83	0.00
Calicino	76.05	Max WS	TR200_9H_SA2	-3.61	37.53	40.86	38.06	40.86	0.000009	-0.16	31.75	18.83	0.03
Calicino	76.05	Max WS	TR200_12H_SA2	-5.18	37.53	41.15	38.19	41.15	0.000012	-0.20	37.24	18.83	0.03
Calicino	76.05	Max WS	TR200_18H_SA2	-5.95	37.53	41.69	38.24	41.69	0.000008	-0.18	47.38	18.83	0.03
Calicino	76.05	Max WS	TR200_24H_SA2	-2.27	37.53	41.86	37.93	41.86	0.000001	-0.06	50.51	18.83	0.01
Calicino	76	Max WS	TR30_9H_SA2	4.96	37.91	40.37	38.65	40.38	0.000112	0.34	14.66	11.10	0.09
Calicino	76	Max WS	TR30_12H_SA2	-1.83	37.91	40.52	38.33	40.52	0.000011	-0.11	16.35	11.79	0.03
Calicino	76	Max WS	TR30_18H_SA2	-3.33	37.91	41.19	38.50	41.20	0.000013	-0.12	28.17	20.62	0.03
Calicino	76	Max WS	TR30_24H_SA2	-0.18	37.91	40.82	38.03	40.82	0.000000	-0.01	20.60	16.06	0.00
Calicino	76	Max WS	TR200_9H_SA2	-3.60	37.91	40.86	38.53	40.86	0.000035	-0.17	21.38	19.92	0.05
Calicino	76	Max WS	TR200_12H_SA2	-5.21	37.91	41.15	38.67	41.15	0.000034	-0.19	27.30	20.55	0.05
Calicino	76	Max WS	TR200_18H_SA2	-5.95	37.91	41.69	38.72	41.69	0.000015	-0.15	38.61	21.41	0.04
Calicino	76	Max WS	TR200_24H_SA2	-2.27	37.91	41.86	38.39	41.86	0.000002	-0.05	42.19	21.68	0.01
Calicino	75.99			Lat Struct									
Calicino	75.04	Max WS	TR30_9H_SA2	4.97	37.51	40.37	38.27	40.37	0.000044	0.32	20.52	16.56	0.06
Calicino	75.04	Max WS	TR30_12H_SA2	-2.12	37.51	40.52	38.02	40.52	0.000006	-0.13	23.18	19.01	0.02
Calicino	75.04	Max WS	TR30_18H_SA2	-3.79	37.51	41.19	38.18	41.20	0.000007	-0.15	36.01	19.01	0.03
Calicino	75.04	Max WS	TR30_24H_SA2	-0.19	37.51	40.82	37.71	40.82	0.000000	-0.01	28.84	19.01	0.00
Calicino	75.04	Max WS	TR200_9H_SA2	-5.58	37.51	40.86	38.31	40.86	0.000024	-0.27	29.66	19.01	0.05
Calicino	75.04	Max WS	TR200_12H_SA2	-7.98	37.51	41.15	38.47	41.16	0.000031	-0.33	35.21	19.01	0.06
Calicino	75.04	Max WS	TR200_18H_SA2	-5.95	37.51	41.69	38.34	41.69	0.000009	-0.19	45.45	19.01	0.03
Calicino	75.04	Max WS	TR200_24H_SA2	-2.28	37.51	41.86	38.04	41.86	0.000001	-0.07	48.60	19.01	0.01
Calicino	75.03	Max WS	TR30_9H_SA2	4.97	37.26	40.37	38.22	40.37	0.000036	0.29	23.07	21.43	0.06
Calicino	75.03	Max WS	TR30_12H_SA2	-2.30	37.26	40.52	37.97	40.52	0.000006	-0.12	26.31	21.49	0.02
Calicino	75.03	Max WS	TR30_18H_SA2	-3.80	37.26	41.19	38.12	41.20	0.000005	-0.13	40.88	21.72	0.02
Calicino	75.03	Max WS	TR30_24H_SA2	-0.20	37.26	40.82	37.52	40.82	0.000000	-0.01	32.70	21.59	0.00

HEC-RAS River: Calicino Reach: Calicino Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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)	
Calicino	75.03	Max WS	TR200_9H_SA2	-5.58	37.26	40.86	38.27	40.86	0.000019	-0.24	33.67	21.60	0.04
Calicino	75.03	Max WS	TR200_12H_SA2	-7.99	37.26	41.15	38.43	41.16	0.000024	-0.29	40.01	21.70	0.05
Calicino	75.03	Max WS	TR200_18H_SA2	-5.95	37.26	41.69	38.30	41.69	0.000007	-0.17	51.73	21.89	0.03
Calicino	75.03	Max WS	TR200_24H_SA2	-2.27	37.26	41.86	37.96	41.86	0.000001	-0.06	55.34	21.94	0.01
Calicino	75.02	Max WS	TR30_9H_SA2	5.71	37.22	40.36	38.22	40.37	0.000083	0.45	18.66	19.36	0.09
Calicino	75.02	Max WS	TR30_12H_SA2	-2.05	37.22	40.52	37.86	40.52	0.000008	-0.14	21.73	19.52	0.03
Calicino	75.02	Max WS	TR30_18H_SA2	-4.13	37.22	41.19	38.08	41.20	0.000010	-0.18	34.88	19.52	0.03
Calicino	75.02	Max WS	TR30_24H_SA2	-0.25	37.22	40.82	37.50	40.82	0.000000	-0.01	27.52	19.52	0.00
Calicino	75.02	Max WS	TR200_9H_SA2	-6.08	37.22	40.86	38.25	40.86	0.000036	-0.33	28.36	19.52	0.06
Calicino	75.02	Max WS	TR200_12H_SA2	-8.72	37.22	41.15	38.43	41.16	0.000047	-0.40	34.05	19.52	0.07
Calicino	75.02	Max WS	TR200_18H_SA2	-6.49	37.22	41.69	38.28	41.69	0.000013	-0.23	44.57	19.52	0.04
Calicino	75.02	Max WS	TR200_24H_SA2	-2.83	37.22	41.86	37.95	41.86	0.000002	-0.09	47.81	19.52	0.01
Calicino	75.01	Max WS	TR30_9H_SA2	5.71	37.39	40.36	38.08	40.37	0.000043	0.28	22.69	19.07	0.06
Calicino	75.01	Max WS	TR30_12H_SA2	-2.05	37.39	40.52	37.79	40.52	0.000004	-0.09	25.82	20.02	0.02
Calicino	75.01	Max WS	TR30_18H_SA2	-4.14	37.39	41.20	37.97	41.20	0.000006	-0.13	39.31	20.02	0.02
Calicino	75.01	Max WS	TR30_24H_SA2	-0.25	37.39	40.82	37.56	40.82	0.000000	-0.01	31.74	20.02	0.00
Calicino	75.01	Max WS	TR200_9H_SA2	-6.10	37.39	40.86	38.10	40.87	0.000021	-0.22	32.67	20.02	0.04
Calicino	75.01	Max WS	TR200_12H_SA2	-8.74	37.39	41.16	38.25	41.16	0.000028	-0.28	38.55	20.02	0.05
Calicino	75.01	Max WS	TR200_18H_SA2	-6.54	37.39	41.69	38.13	41.69	0.000008	-0.17	49.28	20.02	0.03
Calicino	75.01	Max WS	TR200_24H_SA2	-2.92	37.39	41.86	37.87	41.86	0.000001	-0.07	52.57	20.02	0.01
Calicino	75	Max WS	TR30_9H_SA2	6.03	37.56	40.36	38.24	40.36	0.000067	0.26	22.81	17.47	0.07
Calicino	75	Max WS	TR30_12H_SA2	-1.91	37.56	40.52	37.95	40.52	0.000005	-0.07	25.71	18.01	0.02
Calicino	75	Max WS	TR30_18H_SA2	-4.48	37.56	41.20	38.15	41.20	0.000008	-0.12	38.58	20.22	0.03
Calicino	75	Max WS	TR30_24H_SA2	-0.29	37.56	40.82	37.75	40.82	0.000000	-0.01	31.16	18.97	0.00
Calicino	75	Max WS	TR200_9H_SA2	-6.55	37.56	40.87	38.27	40.87	0.000029	-0.20	32.08	19.13	0.05
Calicino	75	Max WS	TR200_12H_SA2	-9.45	37.56	41.16	38.42	41.16	0.000037	-0.25	37.85	20.10	0.06
Calicino	75	Max WS	TR200_18H_SA2	-7.21	37.56	41.69	38.30	41.70	0.000010	-0.15	49.06	21.77	0.03
Calicino	75	Max WS	TR200_24H_SA2	-3.50	37.56	41.86	38.08	41.86	0.000002	-0.07	52.64	22.02	0.01
Calicino	74	Max WS	TR30_9H_SA2	6.04	37.56	40.35	38.37	40.36	0.000107	0.37	16.46	10.14	0.09
Calicino	74	Max WS	TR30_12H_SA2	-1.90	37.56	40.52	37.98	40.52	0.000008	-0.10	18.27	10.76	0.03
Calicino	74	Max WS	TR30_18H_SA2	-4.48	37.56	41.20	38.24	41.20	0.000017	-0.17	26.32	13.16	0.04
Calicino	74	Max WS	TR30_24H_SA2	-0.29	37.56	40.82	37.70	40.82	0.000000	-0.01	21.59	11.81	0.00
Calicino	74	Max WS	TR200_9H_SA2	-6.57	37.56	40.87	38.40	40.87	0.000058	-0.30	22.18	11.98	0.07
Calicino	74	Max WS	TR200_12H_SA2	-9.47	37.56	41.16	38.59	41.17	0.000081	-0.37	25.86	13.03	0.08
Calicino	74	Max WS	TR200_18H_SA2	-7.20	37.56	41.69	38.45	41.70	0.000024	-0.22	33.32	14.93	0.05
Calicino	74	Max WS	TR200_24H_SA2	-3.50	37.56	41.86	38.15	41.86	0.000005	-0.10	35.81	15.51	0.02

HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE019	Max WS	TR30_9H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR30_12H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR30_18H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR30_24H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_9H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_12H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_18H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_24H_SA2	38.24	38.20	0.00	9.05	0.40
APE020	Max WS	TR30_9H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR30_12H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR30_18H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR30_24H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_9H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_12H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_18H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_24H_SA2	38.10	37.95	0.26	14.80	2.20
APE021_C	Max WS	TR30_9H_SA2	40.44	38.60	-13.16	47.96	59.75
APE021_C	Max WS	TR30_12H_SA2	40.53	38.60	-11.50	47.96	64.02
APE021_C	Max WS	TR30_18H_SA2	41.19	38.60	-5.75	47.97	95.91
APE021_C	Max WS	TR30_24H_SA2	40.82	38.60	-6.54	48.02	77.88
APE021_C	Max WS	TR200_9H_SA2	40.86	38.60	-1.90	48.02	80.00
APE021_C	Max WS	TR200_12H_SA2	41.15	38.60	9.71	47.97	93.93
APE021_C	Max WS	TR200_18H_SA2	41.69	38.60	4.89	47.96	119.74
APE021_C	Max WS	TR200_24H_SA2	41.85	38.60	3.50	47.96	127.66
APE021_N	Max WS	TR30_9H_SA2	40.44	38.12	2.18	43.02	63.35
APE021_N	Max WS	TR30_12H_SA2	40.53	38.12	2.04	43.02	67.18
APE021_N	Max WS	TR30_18H_SA2	41.19	38.12	9.04	43.55	95.94
APE021_N	Max WS	TR30_24H_SA2	40.82	38.12	7.33	43.20	79.63
APE021_N	Max WS	TR200_9H_SA2	40.86	38.12	1.05	43.20	81.55
APE021_N	Max WS	TR200_12H_SA2	41.15	38.12	-6.03	43.55	94.18
APE021_N	Max WS	TR200_18H_SA2	41.69	38.12	0.07	43.94	117.64
APE021_N	Max WS	TR200_24H_SA2	41.85	38.12	2.36	43.94	124.90
APE021_S	Max WS	TR30_9H_SA2	40.44	38.37	0.99	22.86	25.48
APE021_S	Max WS	TR30_12H_SA2	40.53	38.37	1.60	22.86	27.51
APE021_S	Max WS	TR30_18H_SA2	41.19	38.37	0.72	22.95	42.75
APE021_S	Max WS	TR30_24H_SA2	40.82	38.37	0.00	22.94	34.13
APE021_S	Max WS	TR200_9H_SA2	40.86	38.37	2.87	22.94	35.13
APE021_S	Max WS	TR200_12H_SA2	41.15	38.37	0.93	22.95	41.80
APE021_S	Max WS	TR200_18H_SA2	41.69	38.37	-1.45	22.99	54.16
APE021_S	Max WS	TR200_24H_SA2	41.85	38.37	1.20	22.98	57.95
APE022	Max WS	TR30_9H_SA2	39.87	37.97	6.07	113.31	114.35
APE022	Max WS	TR30_12H_SA2	40.47	37.97	0.29	116.71	183.40
APE022	Max WS	TR30_18H_SA2	41.19	37.97	40.02	117.39	267.47
APE022	Max WS	TR30_24H_SA2	40.82	37.97	7.02	116.71	223.49
APE022	Max WS	TR200_9H_SA2	40.86	37.97	0.71	116.71	229.01
APE022	Max WS	TR200_12H_SA2	41.16	37.97	0.42	117.39	263.07
APE022	Max WS	TR200_18H_SA2	41.69	37.97	2.75	117.94	325.95
APE022	Max WS	TR200_24H_SA2	41.86	37.97	5.89	117.94	345.68
APE023_EL	Max WS	TR30_9H_SA2	40.42	38.55	0.41	59.37	64.12
APE023_EL	Max WS	TR30_12H_SA2	40.51	38.55	2.29	60.43	69.49
APE023_EL	Max WS	TR30_18H_SA2	41.19	38.55	0.17	66.48	113.20
APE023_EL	Max WS	TR30_24H_SA2	40.82	38.55	8.92	63.34	88.72
APE023_EL	Max WS	TR200_9H_SA2	40.86	38.55	-0.28	63.79	91.66
APE023_EL	Max WS	TR200_12H_SA2	41.15	38.55	49.15	66.48	110.61

HEC-RAS Profile: Max WS (Continued)

Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE023_EL	Max WS	TR200_18H_SA2	41.69	38.55	-34.17	69.83	147.06
APE023_EL	Max WS	TR200_24H_SA2	41.86	38.55	70.99	71.31	158.93
APE023_Lago	Max WS	TR30_9H_SA2	40.39	38.32	2.70	57.06	81.52
APE023_Lago	Max WS	TR30_12H_SA2	40.51	38.32	-0.60	57.55	88.00
APE023_Lago	Max WS	TR30_18H_SA2	41.19	38.32	1.24	60.27	128.67
APE023_Lago	Max WS	TR30_24H_SA2	40.82	38.32	-7.71	58.75	106.19
APE023_Lago	Max WS	TR200_9H_SA2	40.86	38.32	1.05	59.38	108.91
APE023_Lago	Max WS	TR200_12H_SA2	41.16	38.32	-19.00	59.69	126.33
APE023_Lago	Max WS	TR200_18H_SA2	41.69	38.32	0.25	61.44	158.76
APE023_Lago	Max WS	TR200_24H_SA2	41.86	38.32	-36.10	61.07	169.11
APE024	Max WS	TR30_9H_SA2	39.94	38.42	-0.88	105.50	56.88
APE024	Max WS	TR30_12H_SA2	40.47	38.42	12.49	118.45	115.75
APE024	Max WS	TR30_18H_SA2	41.19	38.42	41.69	121.37	201.83
APE024	Max WS	TR30_24H_SA2	40.82	38.42	24.10	118.45	156.41
APE024	Max WS	TR200_9H_SA2	40.86	38.42	14.62	118.45	162.04
APE024	Max WS	TR200_12H_SA2	41.16	38.42	2.29	121.37	197.24
APE024	Max WS	TR200_18H_SA2	41.69	38.42	10.80	124.28	262.65
APE024	Max WS	TR200_24H_SA2	41.86	38.42	-3.13	124.28	283.67
APE167	Max WS	TR30_9H_SA2	41.39	37.41	-7.86	106.60	118.78
APE167	Max WS	TR30_12H_SA2	41.39	37.41	-8.10	106.60	119.10
APE167	Max WS	TR30_18H_SA2	41.38	37.41	-7.34	106.60	118.03
APE167	Max WS	TR30_24H_SA2	41.34	37.41	-4.85	106.60	113.81
APE167	Max WS	TR200_9H_SA2	41.41	37.41	-9.44	106.60	120.86
APE167	Max WS	TR200_12H_SA2	41.41	37.41	-10.05	106.60	121.60
APE167	Max WS	TR200_18H_SA2	41.68	37.41	2.76	110.91	150.59
APE167	Max WS	TR200_24H_SA2	41.86	37.41	-1.80	110.91	169.66
APE200	Max WS	TR30_9H_SA2	40.33	39.08	0.00	67.18	26.24
APE200	Max WS	TR30_12H_SA2	40.40	39.08	0.00	67.18	31.01
APE200	Max WS	TR30_18H_SA2	41.20	39.08	0.09	73.54	87.06
APE200	Max WS	TR30_24H_SA2	39.34	39.08	0.02	1.60	0.06
APE200	Max WS	TR200_9H_SA2	40.53	39.08	0.14	67.18	39.82
APE200	Max WS	TR200_12H_SA2	41.16	39.08	0.82	73.54	84.17
APE200	Max WS	TR200_18H_SA2	41.68	39.08	2.00	75.37	122.85
APE200	Max WS	TR200_24H_SA2	41.85	39.08	3.38	75.37	135.80
NordPantanelle	Max WS	TR30_9H_SA2	40.42	38.79	-0.13	31.42	41.57
NordPantanelle	Max WS	TR30_12H_SA2	40.51	38.79	-0.49	31.47	44.39
NordPantanelle	Max WS	TR30_18H_SA2	41.19	38.79	0.36	31.79	66.10
NordPantanelle	Max WS	TR30_24H_SA2	40.82	38.79	0.26	31.39	54.17
NordPantanelle	Max WS	TR200_9H_SA2	40.86	38.79	0.32	31.76	55.64
NordPantanelle	Max WS	TR200_12H_SA2	41.16	38.79	-29.65	31.79	64.88
NordPantanelle	Max WS	TR200_18H_SA2	41.69	38.79	34.43	31.48	81.76
NordPantanelle	Max WS	TR200_24H_SA2	41.86	38.79	-34.61	31.79	87.11

RISULTATI MODELLO HEC-RAS

**SP2-Condizione al contorno di scarico rigurgitato dalla piena
nel Torrente Ombrone**

TEMPI DI RITORNO 30 -200 ANNI

Geometria del modello idraulico

Profili MAX WS tempi di ritorno: 30 – 200 anni

Sezioni MAX WS tempi di ritorno: 30 – 200 anni

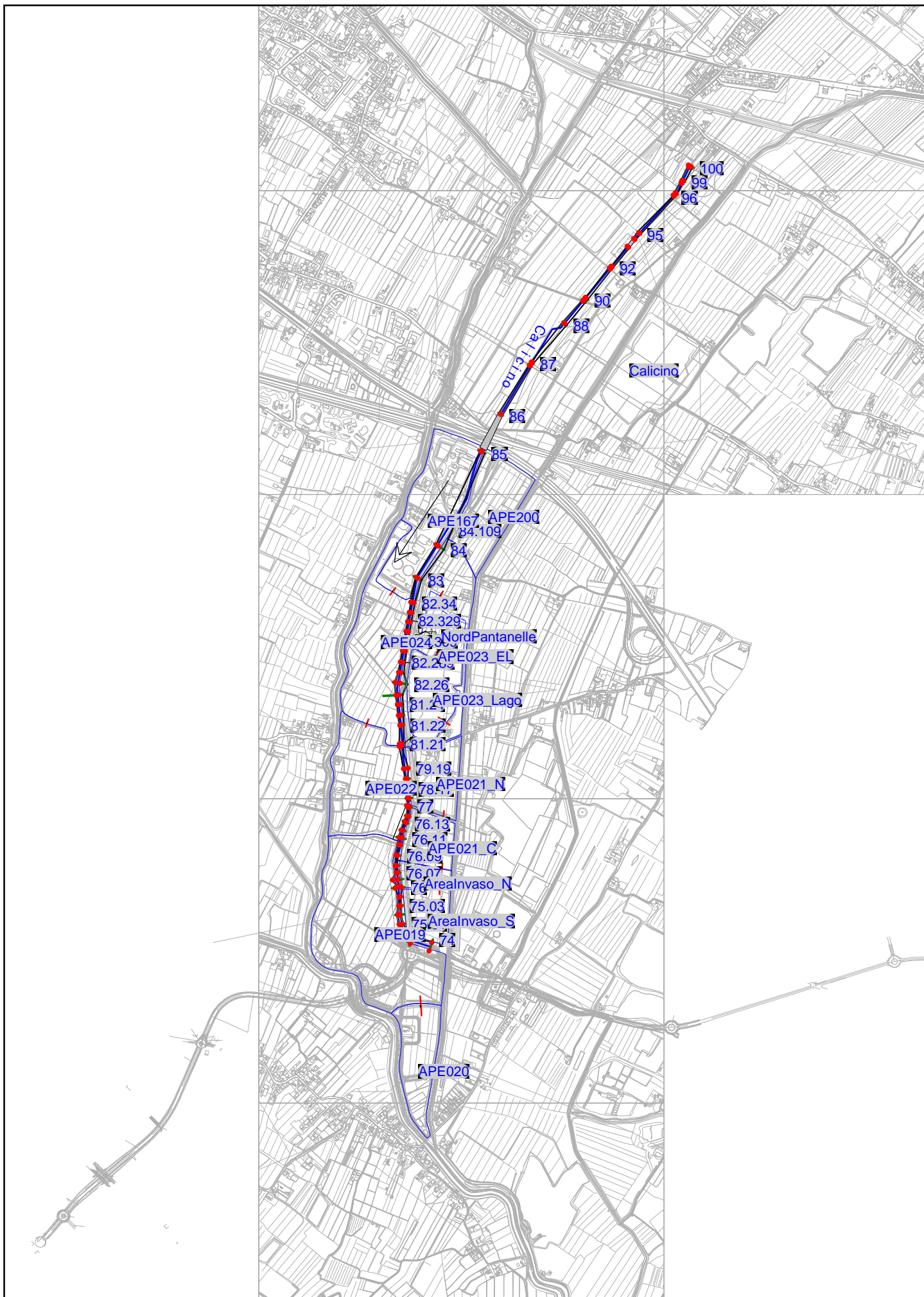
Idrogrammi delle quote del pelo libero ArealInvaso_S

Idrogrammi delle quote del pelo libero ArealInvaso_N

Idrogrammi delle quote del pelo libero NordPantanelle

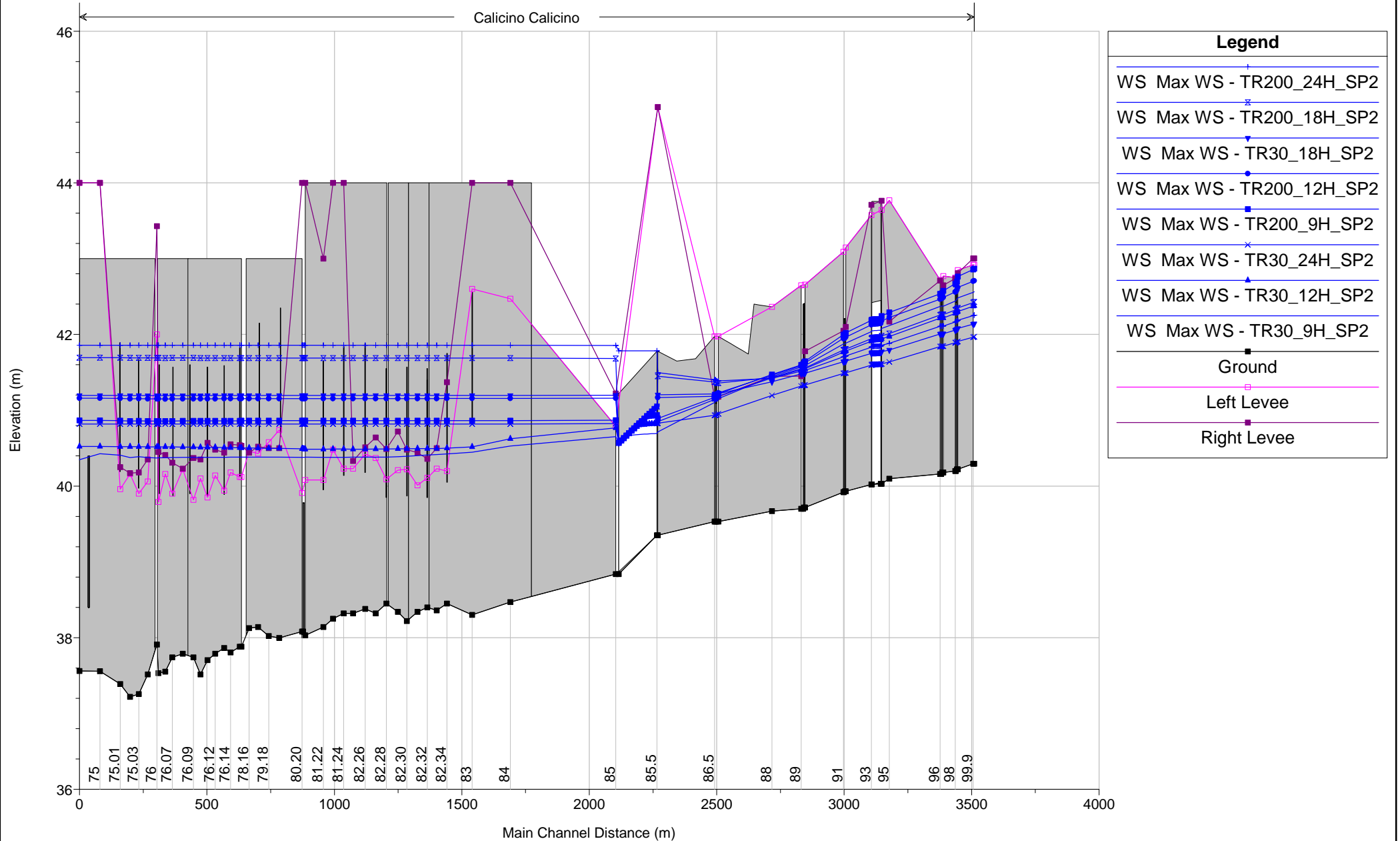
Tabella MAX WS sezioni idrauliche

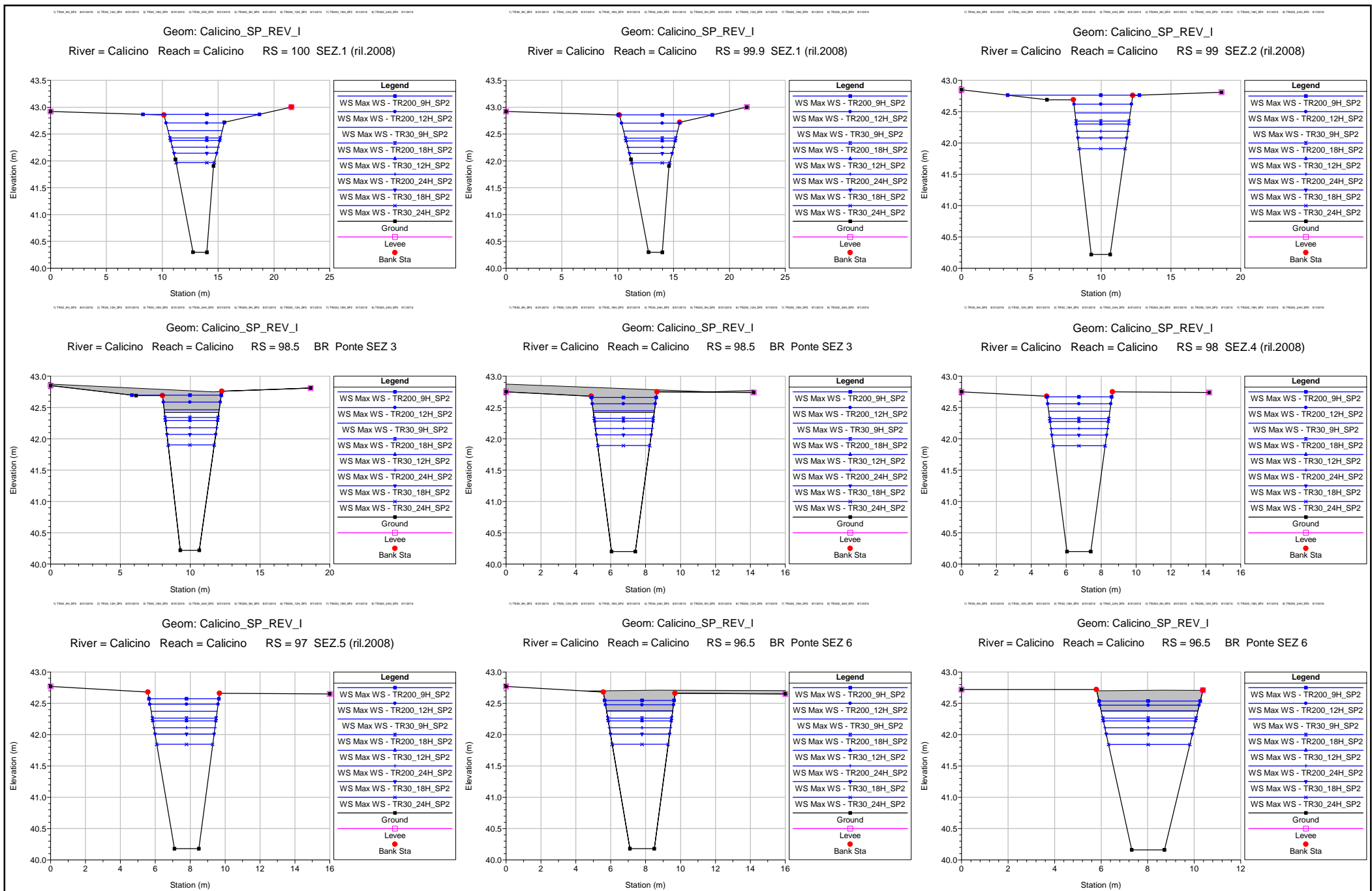
Tabella MAX WS storage area

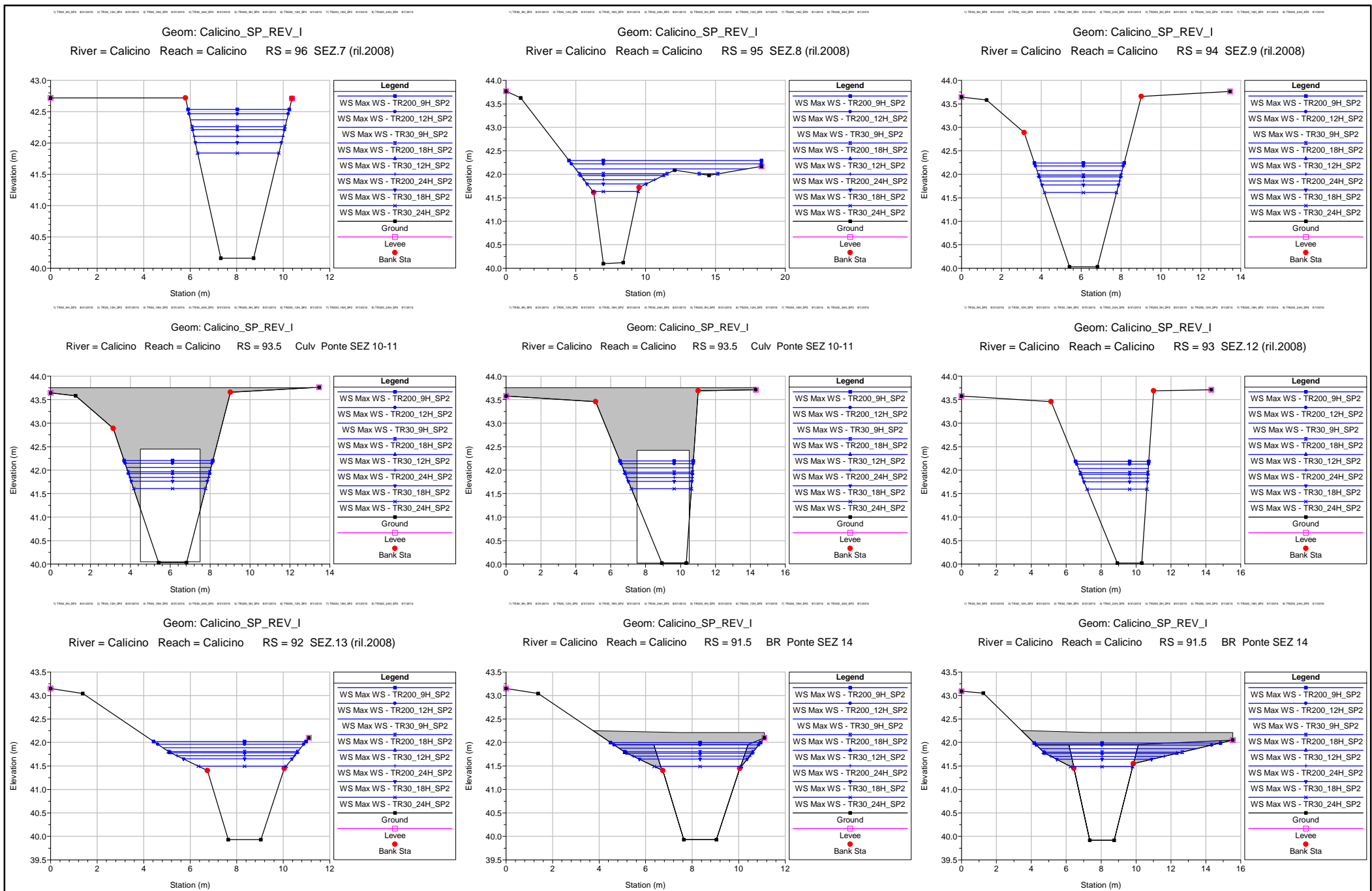


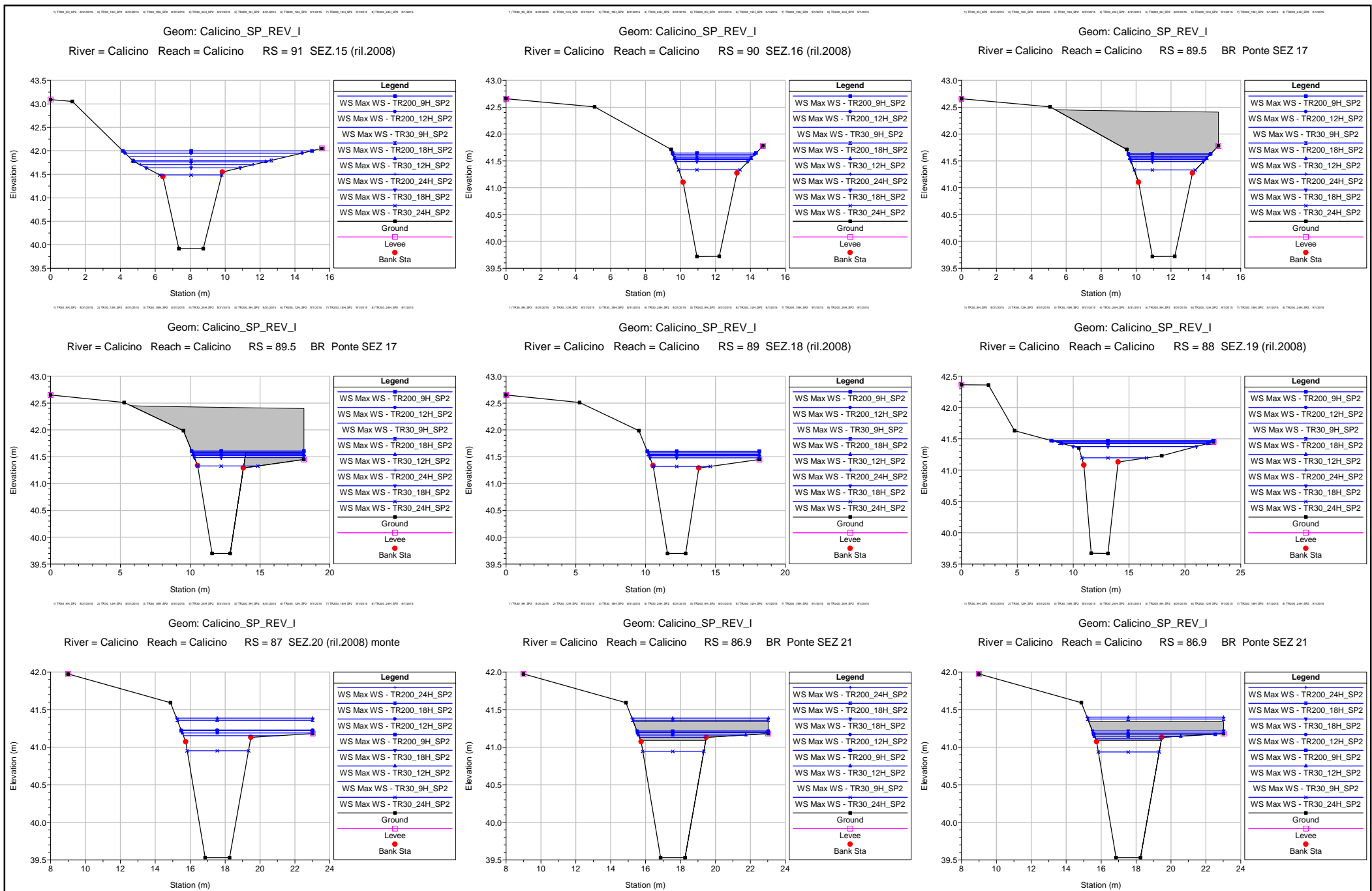
1) TR30_9H_SP2 8/31/2015 2) TR30_12H_SP2 8/31/2015 3) TR30_18H_SP2 8/31/2015 4) TR30_24H_SP2 8/31/2015 5) TR200_9H_SP2 8/31/2015 6) TR200_12H_SP2 9/1/2015 7) TR200_18H_SP2 9/1/2015 8) TR200_24H_SP2 9/1/2015

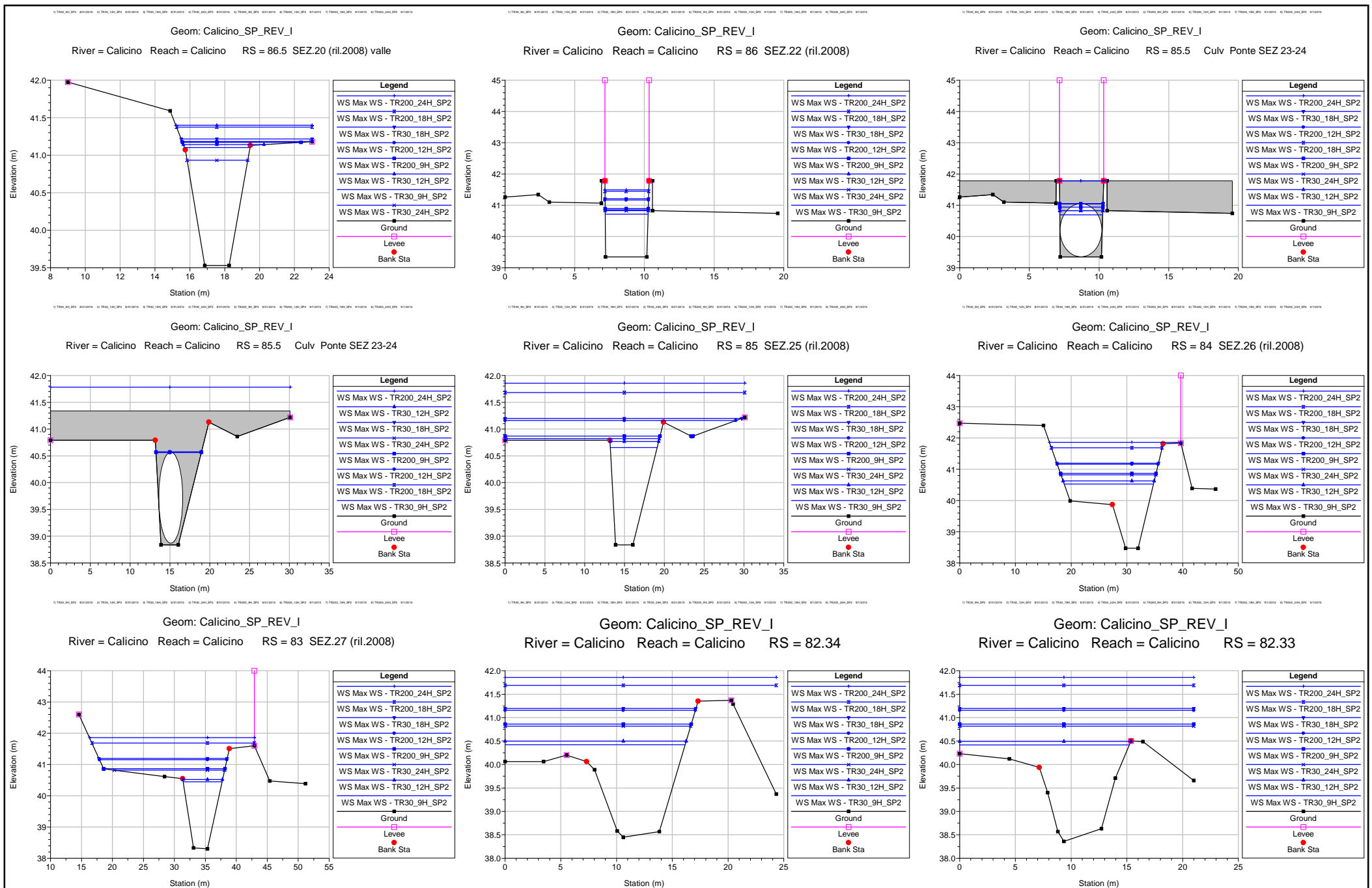
Geom: Calicino_SP_REV_I

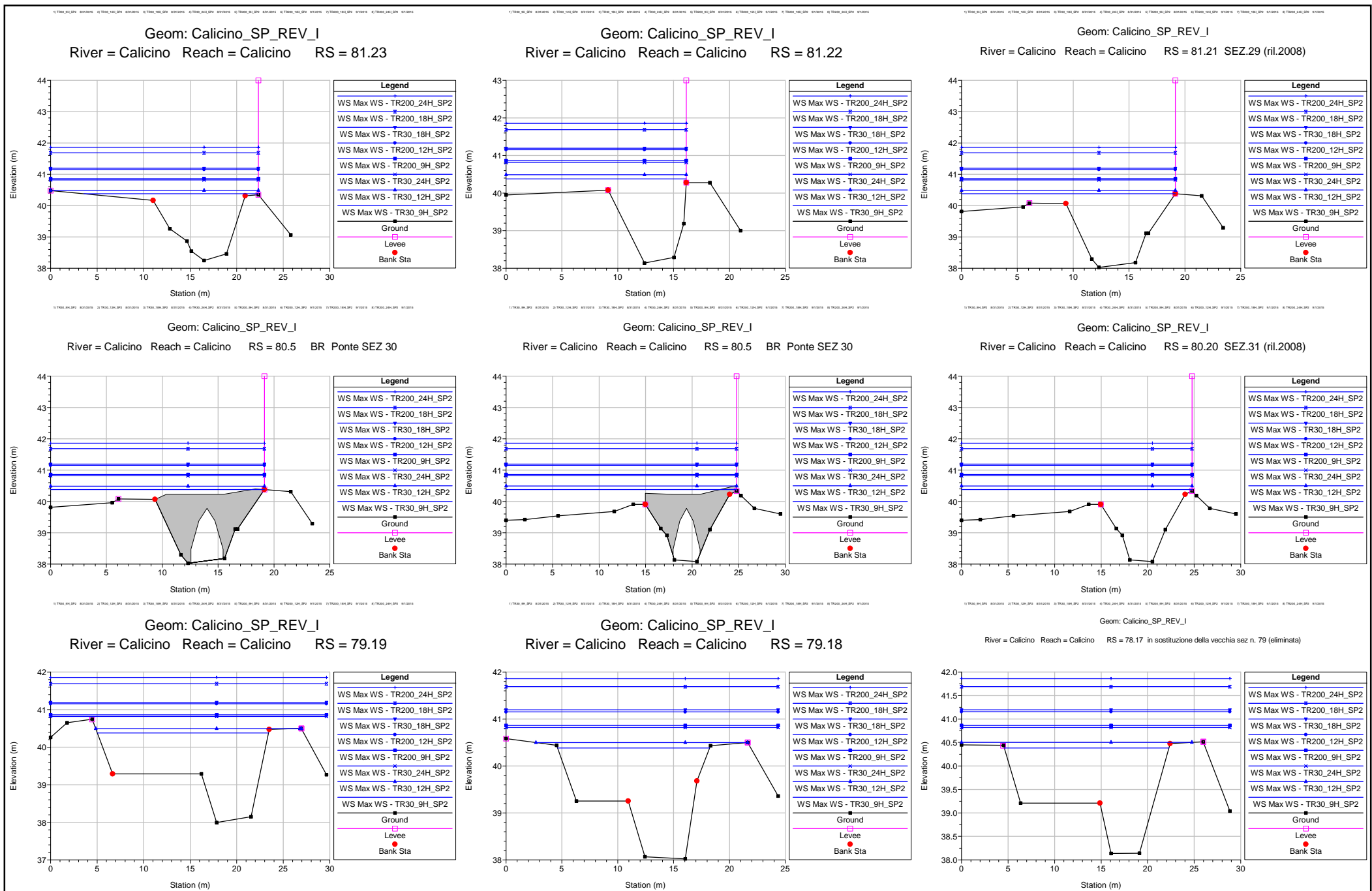


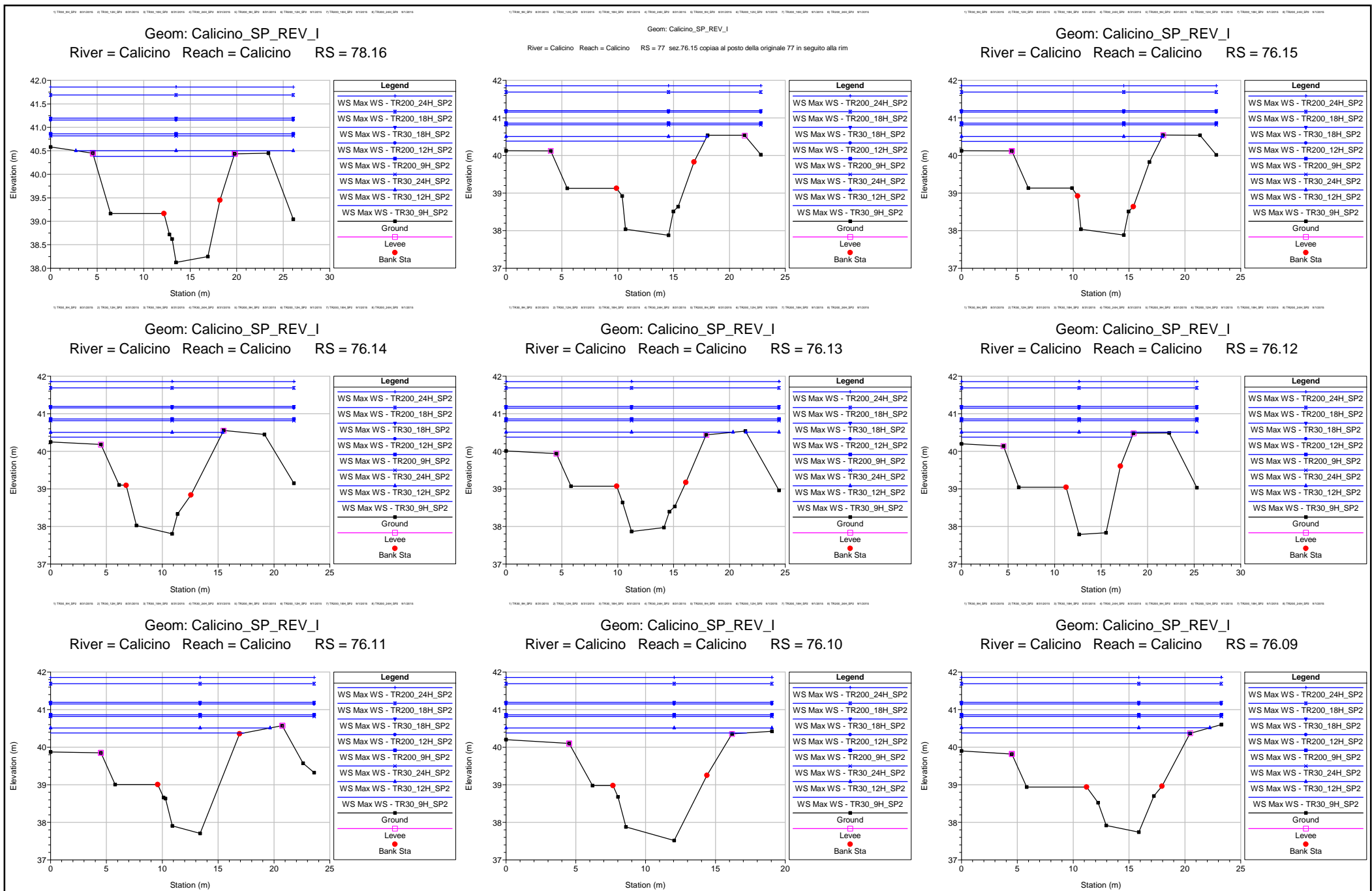


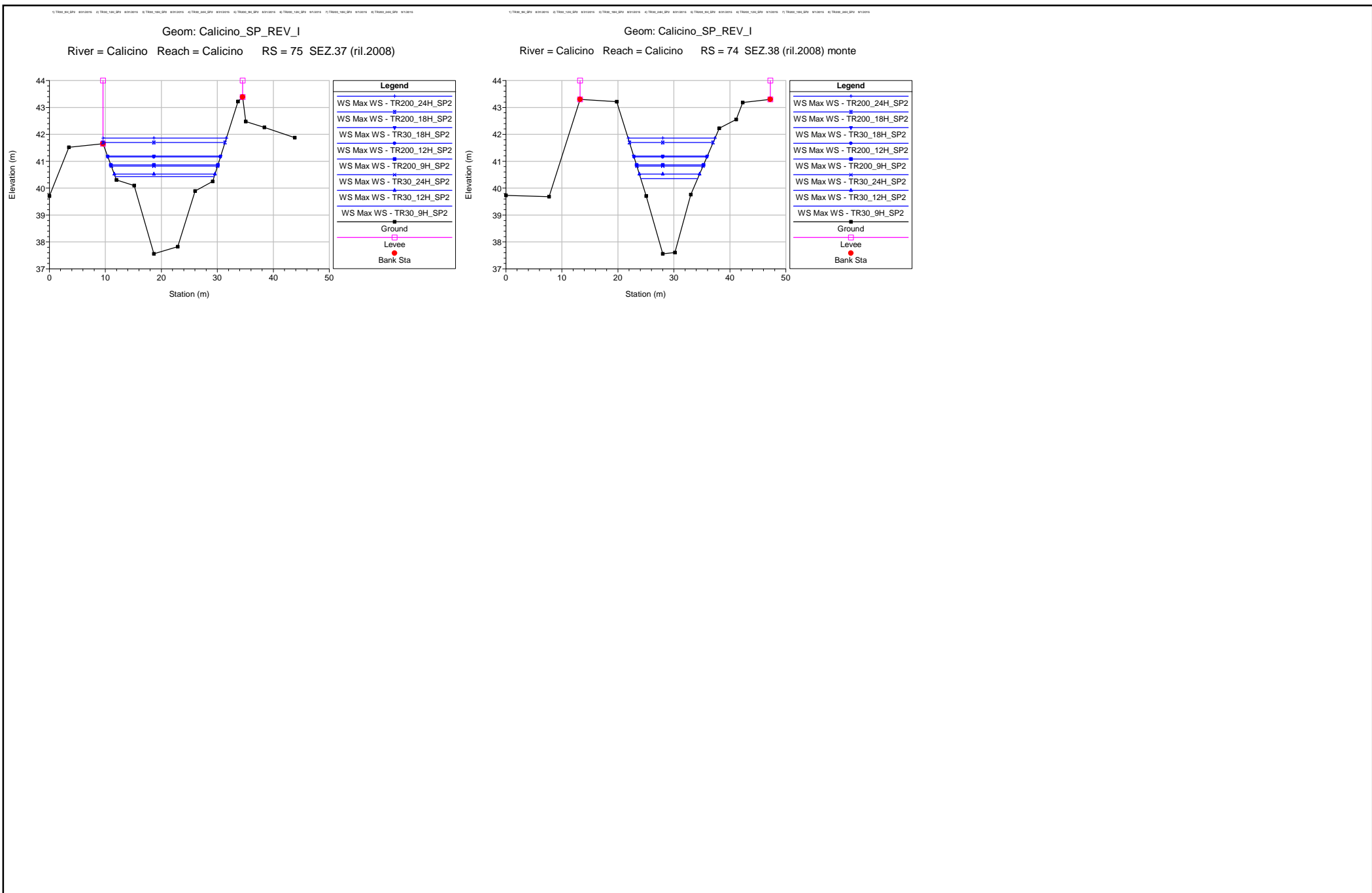




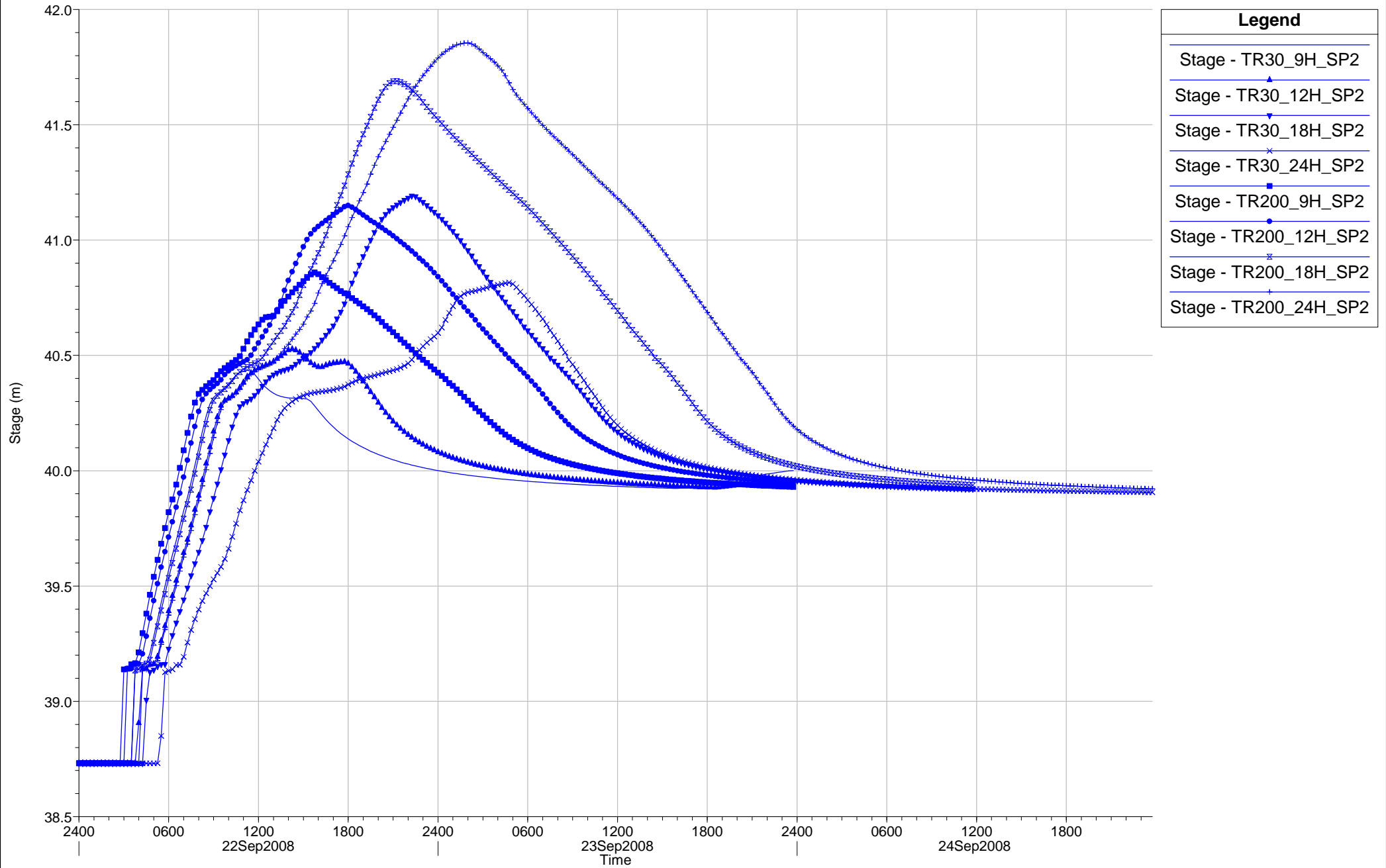


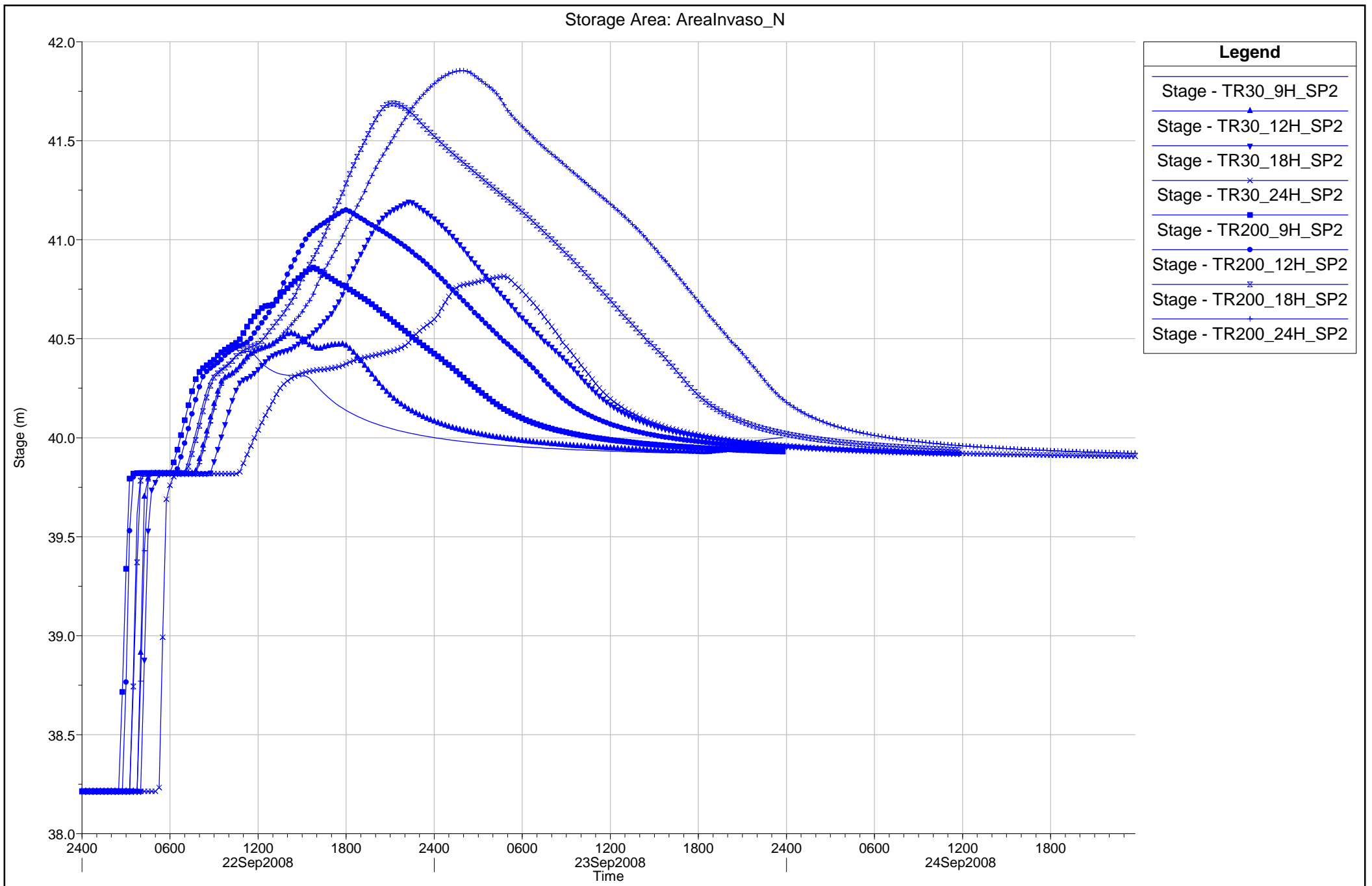




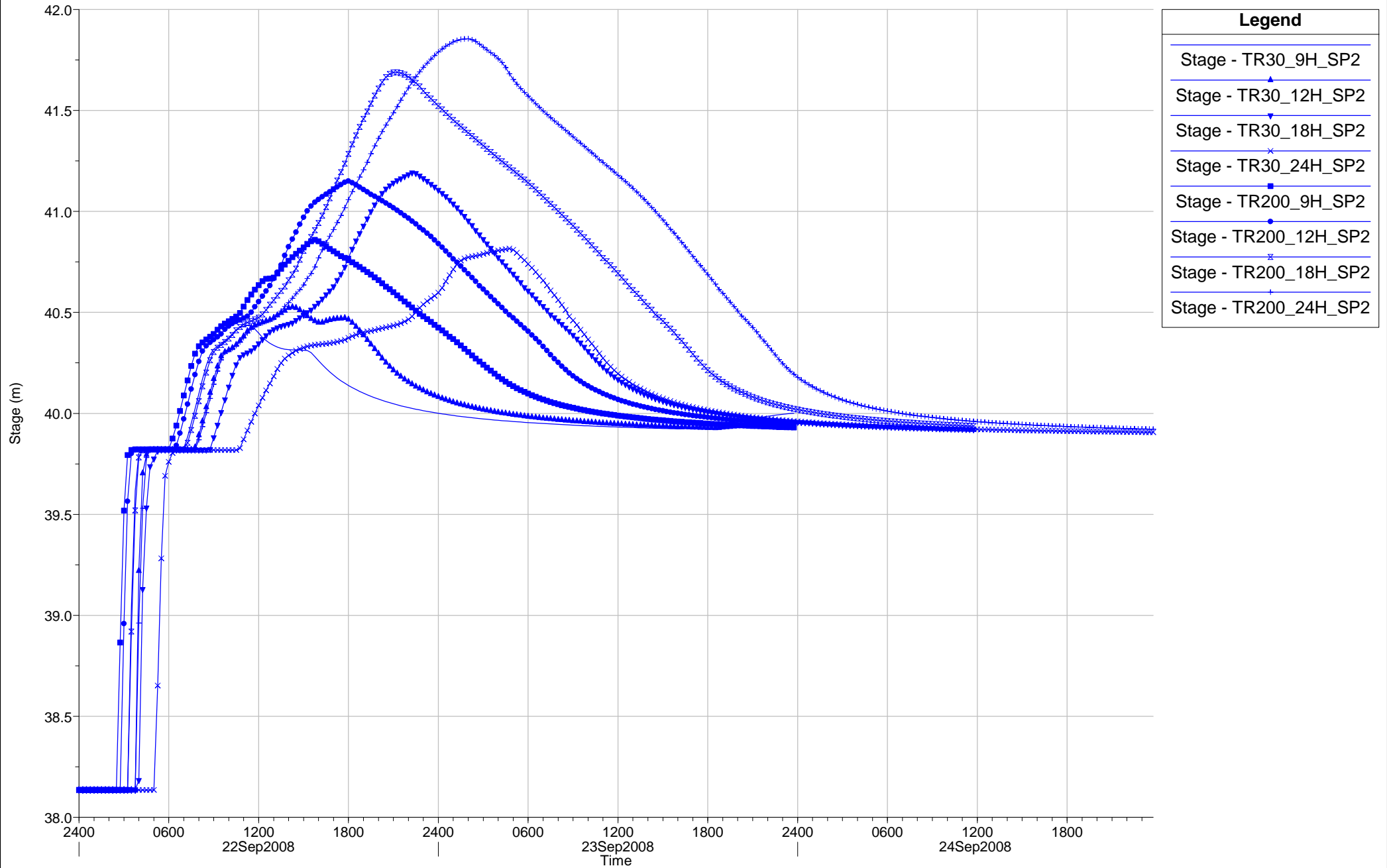


Storage Area: APE021_C

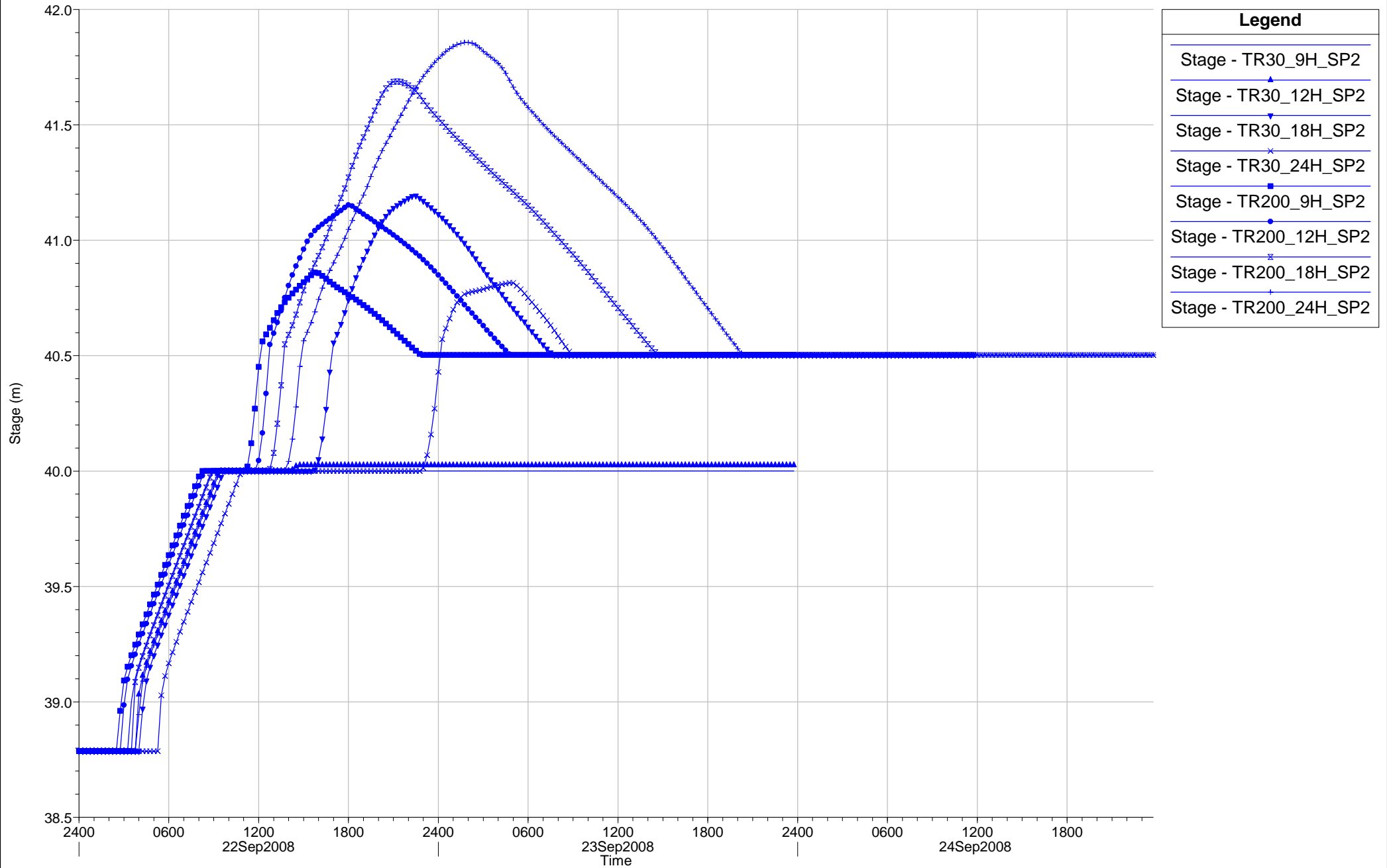




Storage Area: ArealInvaso_S



Storage Area: NordPantanelle



Reach	River Sta	Profile	Plan	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)	
Calicino	100	Max WS	TR30_9H_SP2	5.64	40.29	42.56	41.36	42.60	0.001170	0.90	6.29	4.86	0.25
Calicino	100	Max WS	TR30_12H_SP2	4.60	40.29	42.38	41.25	42.41	0.001129	0.85	5.44	4.40	0.24
Calicino	100	Max WS	TR30_18H_SP2	3.42	40.29	42.14	41.10	42.17	0.001023	0.77	4.47	3.82	0.23
Calicino	100	Max WS	TR30_24H_SP2	2.77	40.29	41.97	41.00	42.00	0.000979	0.72	3.84	3.42	0.22
Calicino	100	Max WS	TR200_9H_SP2	8.04	40.29	42.87	41.60	42.92	0.001816	0.99	8.12	10.42	0.33
Calicino	100	Max WS	TR200_12H_SP2	6.55	40.29	42.71	41.45	42.75	0.001191	0.93	7.02	5.21	0.26
Calicino	100	Max WS	TR200_18H_SP2	4.88	40.29	42.43	41.28	42.47	0.001147	0.86	5.66	4.52	0.25
Calicino	100	Max WS	TR200_24H_SP2	3.95	40.29	42.26	41.17	42.29	0.001076	0.80	4.92	4.10	0.23
Calicino	99.9	Max WS	TR30_9H_SP2	5.64	40.29	42.56	41.36	42.60	0.001185	0.90	6.26	4.84	0.25
Calicino	99.9	Max WS	TR30_12H_SP2	4.60	40.29	42.37	41.25	42.41	0.001144	0.85	5.41	4.39	0.24
Calicino	99.9	Max WS	TR30_18H_SP2	3.42	40.29	42.14	41.10	42.17	0.001035	0.77	4.45	3.81	0.23
Calicino	99.9	Max WS	TR30_24H_SP2	2.77	40.29	41.96	41.00	41.99	0.000990	0.72	3.82	3.41	0.22
Calicino	99.9	Max WS	TR200_9H_SP2	8.04	40.29	42.86	41.60	42.91	0.001303	1.03	8.01	8.42	0.27
Calicino	99.9	Max WS	TR200_12H_SP2	6.55	40.29	42.70	41.46	42.75	0.001206	0.94	6.99	5.20	0.26
Calicino	99.9	Max WS	TR200_18H_SP2	4.88	40.29	42.42	41.28	42.46	0.001162	0.87	5.63	4.51	0.25
Calicino	99.9	Max WS	TR200_24H_SP2	3.95	40.29	42.25	41.17	42.28	0.001089	0.81	4.89	4.09	0.24
Calicino	99.5			Lat Struct									
Calicino	99.4			Lat Struct									
Calicino	99	Max WS	TR30_9H_SP2	5.64	40.22	42.48	41.26	42.53	0.001216	0.94	6.01	3.96	0.24
Calicino	99	Max WS	TR30_12H_SP2	4.60	40.22	42.30	41.14	42.34	0.001110	0.86	5.33	3.76	0.23
Calicino	99	Max WS	TR30_18H_SP2	3.42	40.22	42.08	40.99	42.11	0.000950	0.76	4.51	3.50	0.21
Calicino	99	Max WS	TR30_24H_SP2	2.77	40.22	41.91	40.90	41.93	0.000894	0.70	3.93	3.30	0.21
Calicino	99	Max WS	TR200_9H_SP2	8.04	40.22	42.76	41.49	42.83	0.001518	1.12	7.42	9.43	0.27
Calicino	99	Max WS	TR200_12H_SP2	6.55	40.22	42.62	41.35	42.67	0.001298	1.00	6.58	4.12	0.25
Calicino	99	Max WS	TR200_18H_SP2	4.87	40.22	42.35	41.17	42.39	0.001144	0.89	5.51	3.81	0.24
Calicino	99	Max WS	TR200_24H_SP2	3.95	40.22	42.19	41.06	42.22	0.001023	0.81	4.90	3.62	0.22
Calicino	98.5			Bridge									
Calicino	98	Max WS	TR30_9H_SP2	5.63	40.20	42.44	41.25	42.49	0.001593	1.03	5.45	3.50	0.26
Calicino	98	Max WS	TR30_12H_SP2	4.60	40.20	42.28	41.13	42.32	0.001407	0.94	4.90	3.34	0.25
Calicino	98	Max WS	TR30_18H_SP2	3.42	40.20	42.06	40.98	42.09	0.001170	0.82	4.19	3.14	0.23
Calicino	98	Max WS	TR30_24H_SP2	2.77	40.20	41.89	40.89	41.92	0.001080	0.75	3.68	2.98	0.22
Calicino	98	Max WS	TR200_9H_SP2	8.04	40.20	42.67	41.49	42.75	0.002247	1.28	6.28	3.72	0.31
Calicino	98	Max WS	TR200_12H_SP2	6.55	40.20	42.56	41.35	42.62	0.001768	1.11	5.89	3.61	0.28
Calicino	98	Max WS	TR200_18H_SP2	4.87	40.20	42.32	41.17	42.37	0.001459	0.97	5.05	3.39	0.25
Calicino	98	Max WS	TR200_24H_SP2	3.95	40.20	42.16	41.05	42.20	0.001276	0.87	4.53	3.24	0.24
Calicino	97.5			Lat Struct									
Calicino	97.4			Lat Struct									
Calicino	97	Max WS	TR30_9H_SP2	5.63	40.18	42.37	41.21	42.42	0.001403	0.99	5.69	3.79	0.26
Calicino	97	Max WS	TR30_12H_SP2	4.60	40.18	42.22	41.09	42.26	0.001236	0.90	5.12	3.62	0.24
Calicino	97	Max WS	TR30_18H_SP2	3.42	40.18	42.01	40.94	42.04	0.001025	0.78	4.39	3.39	0.22
Calicino	97	Max WS	TR30_24H_SP2	2.77	40.18	41.85	40.85	41.87	0.000952	0.72	3.84	3.21	0.21
Calicino	97	Max WS	TR200_9H_SP2	8.04	40.18	42.57	41.44	42.65	0.002044	1.24	6.47	4.01	0.31
Calicino	97	Max WS	TR200_12H_SP2	6.55	40.18	42.49	41.30	42.55	0.001563	1.07	6.13	3.91	0.27
Calicino	97	Max WS	TR200_18H_SP2	4.87	40.18	42.26	41.12	42.31	0.001283	0.92	5.28	3.67	0.25
Calicino	97	Max WS	TR200_24H_SP2	3.95	40.18	42.11	41.01	42.15	0.001119	0.83	4.73	3.50	0.23
Calicino	96.5			Bridge									
Calicino	96	Max WS	TR30_9H_SP2	5.63	40.16	42.37	41.17	42.41	0.001136	0.92	6.14	4.15	0.24
Calicino	96	Max WS	TR30_12H_SP2	4.60	40.16	42.21	41.05	42.25	0.001007	0.83	5.51	3.95	0.23
Calicino	96	Max WS	TR30_18H_SP2	3.42	40.16	42.01	40.91	42.03	0.000842	0.73	4.71	3.69	0.21
Calicino	96	Max WS	TR30_24H_SP2	2.77	40.16	41.84	40.82	41.86	0.000787	0.67	4.12	3.49	0.20
Calicino	96	Max WS	TR200_9H_SP2	8.04	40.16	42.54	41.40	42.61	0.001740	1.17	6.85	4.35	0.30
Calicino	96	Max WS	TR200_12H_SP2	6.55	40.16	42.47	41.26	42.52	0.001299	1.00	6.55	4.26	0.26
Calicino	96	Max WS	TR200_18H_SP2	4.87	40.16	42.26	41.09	42.30	0.001043	0.86	5.69	4.01	0.23
Calicino	96	Max WS	TR200_24H_SP2	3.95	40.16	42.11	40.98	42.14	0.000916	0.78	5.09	3.82	0.21
Calicino	95.5			Lat Struct									
Calicino	95.4			Lat Struct									
Calicino	95	Max WS	TR30_9H_SP2	5.64	40.10	42.12	41.12	42.17	0.001319	1.04	6.36	12.29	0.27
Calicino	95	Max WS	TR30_12H_SP2	4.60	40.10	41.97	41.01	42.02	0.001301	0.97	5.02	5.94	0.26
Calicino	95	Max WS	TR30_18H_SP2	3.42	40.10	41.80	40.86	41.83	0.001164	0.84	4.12	4.26	0.24
Calicino	95	Max WS	TR30_24H_SP2	2.77	40.10	41.64	40.77	41.67	0.001179	0.78	3.54	3.26	0.24
Calicino	95	Max WS	TR200_9H_SP2	6.92	40.10	42.29	41.25	42.34	0.001113	1.03	8.70	13.78	0.25
Calicino	95	Max WS	TR200_12H_SP2	6.41	40.10	42.22	41.20	42.27	0.001206	1.04	7.76	13.60	0.26
Calicino	95	Max WS	TR200_18H_SP2	4.87	40.10	42.01	41.04	42.06	0.001320	1.00	5.28	7.63	0.26
Calicino	95	Max WS	TR200_24H_SP2	3.95	40.10	41.88	40.93	41.92	0.001227	0.90	4.52	5.07	0.25
Calicino	94	Max WS	TR30_9H_SP2	5.63	40.03	42.08		42.13	0.001308	0.97	5.82	4.27	0.26
Calicino	94	Max WS	TR30_12H_SP2	4.60	40.03	41.94		41.98	0.001148	0.88	5.25	4.08	0.25
Calicino	94	Max WS	TR30_18H_SP2	3.42	40.03	41.77		41.80	0.000917	0.75	4.57	3.84	0.22
Calicino	94	Max WS	TR30_24H_SP2	2.77	40.03	41.61		41.64	0.000873	0.70	3.97	3.61	0.21
Calicino	94	Max WS	TR200_9H_SP2	6.89	40.03	42.24		42.30	0.001448	1.06	6.52	4.50	0.28
Calicino	94	Max WS	TR200_12H_SP2	6.41	40.03	42.18		42.23	0.001412	1.03	6.23	4.41	0.28
Calicino	94	Max WS	TR200_18H_SP2	4.87	40.03	41.98		42.02	0.001197	0.90	5.39	4.13	0.25
Calicino	94	Max WS	TR200_24H_SP2	3.95	40.03	41.86		41.89	0.001018	0.81	4.89	3.96	0.23

Reach	River Sta	Profile	Plan	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
Calicino	93.5			Culvert									
Calicino	93	Max WS	TR30_9H_SP2	5.63	40.02	42.04	41.03	42.09	0.001636	1.03	5.45	4.01	0.28
Calicino	93	Max WS	TR30_12H_SP2	4.60	40.02	41.91	40.91	41.96	0.001404	0.93	4.96	3.84	0.26
Calicino	93	Max WS	TR30_18H_SP2	3.42	40.02	41.75	40.77	41.78	0.001089	0.78	4.36	3.64	0.23
Calicino	93	Max WS	TR30_24H_SP2	2.77	40.02	41.60	40.68	41.62	0.001023	0.73	3.81	3.43	0.22
Calicino	93	Max WS	TR200_9H_SP2	6.89	40.02	42.19	41.15	42.25	0.001854	1.14	6.06	4.20	0.30
Calicino	93	Max WS	TR200_12H_SP2	6.41	40.02	42.13	41.10	42.19	0.001793	1.10	5.81	4.12	0.30
Calicino	93	Max WS	TR200_18H_SP2	4.87	40.02	41.95	40.94	41.99	0.001471	0.96	5.09	3.89	0.27
Calicino	93	Max WS	TR200_24H_SP2	3.95	40.02	41.83	40.84	41.87	0.001226	0.85	4.65	3.74	0.24
Calicino	92.5			Lat Struct									
Calicino	92.4			Lat Struct									
Calicino	92	Max WS	TR30_9H_SP2	5.63	39.93	41.89	40.94	41.94	0.001376	1.07	5.67	5.92	0.28
Calicino	92	Max WS	TR30_12H_SP2	4.60	39.93	41.78	40.83	41.83	0.001207	0.96	5.08	5.42	0.26
Calicino	92	Max WS	TR30_18H_SP2	3.42	39.93	41.65	40.68	41.68	0.000947	0.80	4.42	4.67	0.22
Calicino	92	Max WS	TR30_24H_SP2	2.77	39.93	41.50	40.59	41.52	0.000966	0.74	3.77	3.77	0.22
Calicino	92	Max WS	TR200_9H_SP2	6.89	39.93	42.02	41.06	42.09	0.001469	1.17	6.52	6.55	0.29
Calicino	92	Max WS	TR200_12H_SP2	6.41	39.93	41.96	41.01	42.03	0.001466	1.15	6.15	6.28	0.29
Calicino	92	Max WS	TR200_18H_SP2	4.87	39.93	41.81	40.86	41.86	0.001261	0.99	5.23	5.56	0.26
Calicino	92	Max WS	TR200_24H_SP2	3.95	39.93	41.72	40.75	41.75	0.001057	0.87	4.74	5.05	0.24
Calicino	91.5			Bridge									
Calicino	91	Max WS	TR30_9H_SP2	5.63	39.92	41.87	40.93	41.93	0.001380	1.05	6.11	9.05	0.27
Calicino	91	Max WS	TR30_12H_SP2	4.60	39.92	41.77	40.82	41.81	0.001257	0.95	5.23	7.52	0.26
Calicino	91	Max WS	TR30_18H_SP2	3.42	39.92	41.64	40.67	41.67	0.001002	0.80	4.40	5.40	0.23
Calicino	91	Max WS	TR30_24H_SP2	2.77	39.92	41.49	40.58	41.51	0.001009	0.74	3.74	3.54	0.22
Calicino	91	Max WS	TR200_9H_SP2	6.89	39.92	42.00	41.05	42.06	0.001428	1.13	7.35	10.83	0.28
Calicino	91	Max WS	TR200_12H_SP2	6.41	39.92	41.95	41.01	42.01	0.001425	1.10	6.85	10.15	0.28
Calicino	91	Max WS	TR200_18H_SP2	4.87	39.92	41.80	40.85	41.84	0.001302	0.98	5.44	7.95	0.26
Calicino	91	Max WS	TR200_24H_SP2	3.95	39.92	41.70	40.74	41.74	0.001113	0.87	4.78	6.47	0.24
Calicino	90.5			Lat Struct									
Calicino	90.4			Lat Struct									
Calicino	90	Max WS	TR30_9H_SP2	5.63	39.72	41.59	40.77	41.67	0.002065	1.24	4.72	4.56	0.33
Calicino	90	Max WS	TR30_12H_SP2	4.60	39.72	41.55	40.66	41.60	0.001540	1.05	4.53	4.38	0.28
Calicino	90	Max WS	TR30_18H_SP2	3.42	39.72	41.49	40.51	41.52	0.000989	0.82	4.28	4.14	0.23
Calicino	90	Max WS	TR30_24H_SP2	2.77	39.72	41.33	40.41	41.36	0.000993	0.76	3.69	3.52	0.22
Calicino	90	Max WS	TR200_9H_SP2	6.87	39.72	41.65	40.89	41.75	0.002682	1.45	4.98	4.78	0.38
Calicino	90	Max WS	TR200_12H_SP2	6.41	39.72	41.62	40.85	41.72	0.002468	1.38	4.88	4.69	0.36
Calicino	90	Max WS	TR200_18H_SP2	4.87	39.72	41.56	40.69	41.62	0.001685	1.11	4.57	4.43	0.30
Calicino	90	Max WS	TR200_24H_SP2	3.95	39.72	41.53	40.58	41.57	0.001202	0.92	4.44	4.30	0.25
Calicino	89.5			Bridge									
Calicino	89	Max WS	TR30_9H_SP2	5.63	39.70	41.57	40.75	41.64	0.001954	1.17	5.44	7.99	0.32
Calicino	89	Max WS	TR30_12H_SP2	4.60	39.70	41.54	40.63	41.59	0.001450	0.99	5.18	7.94	0.27
Calicino	89	Max WS	TR30_18H_SP2	3.42	39.70	41.48	40.48	41.51	0.000969	0.79	4.72	7.85	0.22
Calicino	89	Max WS	TR30_24H_SP2	2.77	39.70	41.32	40.39	41.35	0.001033	0.75	3.72	4.09	0.22
Calicino	89	Max WS	TR200_9H_SP2	6.87	39.70	41.60	40.87	41.69	0.002659	1.38	5.66	8.03	0.37
Calicino	89	Max WS	TR200_12H_SP2	6.37	39.70	41.59	40.82	41.67	0.002364	1.30	5.58	8.02	0.35
Calicino	89	Max WS	TR200_18H_SP2	4.87	39.70	41.55	40.67	41.60	0.001582	1.04	5.25	7.95	0.29
Calicino	89	Max WS	TR200_24H_SP2	3.95	39.70	41.52	40.55	41.55	0.001145	0.87	5.02	7.91	0.24
Calicino	88.5			Lat Struct									
Calicino	88.4			Lat Struct									
Calicino	88	Max WS	TR30_9H_SP2	4.17	39.67	41.45	40.50	41.48	0.001055	0.87	6.05	13.98	0.23
Calicino	88	Max WS	TR30_12H_SP2	3.85	39.67	41.43	40.46	41.46	0.000978	0.83	5.76	13.08	0.22
Calicino	88	Max WS	TR30_18H_SP2	3.35	39.67	41.38	40.40	41.41	0.000881	0.77	5.17	11.05	0.21
Calicino	88	Max WS	TR30_24H_SP2	2.76	39.67	41.20	40.32	41.23	0.001106	0.78	3.63	5.80	0.23
Calicino	88	Max WS	TR200_9H_SP2	4.48	39.67	41.47	40.54	41.51	0.001108	0.90	6.39	14.53	0.24
Calicino	88	Max WS	TR200_12H_SP2	4.33	39.67	41.46	40.52	41.50	0.001068	0.88	6.29	14.38	0.23
Calicino	88	Max WS	TR200_18H_SP2	3.93	39.67	41.43	40.47	41.47	0.000989	0.83	5.85	13.37	0.23
Calicino	88	Max WS	TR200_24H_SP2	3.49	39.67	41.42	40.42	41.45	0.000815	0.75	5.72	12.94	0.20
Calicino	87	Max WS	TR30_9H_SP2	4.16	39.53	41.15	40.35	41.20	0.001603	0.98	4.25	5.52	0.29
Calicino	87	Max WS	TR30_12H_SP2	3.84	39.53	41.19	40.32	41.23	0.001231	0.88	4.49	7.47	0.26
Calicino	87	Max WS	TR30_18H_SP2	0.91	39.53	41.22	39.86	41.22	0.000063	0.20	4.71	7.52	0.06
Calicino	87	Max WS	TR30_24H_SP2	2.74	39.53	40.95	40.18	40.99	0.001194	0.78	3.50	3.52	0.25
Calicino	87	Max WS	TR200_9H_SP2	3.94	39.53	41.22	40.33	41.26	0.001172	0.87	4.73	7.53	0.25
Calicino	87	Max WS	TR200_12H_SP2	3.77	39.53	41.23	40.31	41.26	0.001042	0.83	4.80	7.54	0.24
Calicino	87	Max WS	TR200_18H_SP2	-2.29	39.53	41.36	41.37	0.000255	-0.44	5.78	7.76	7.76	0.12
Calicino	87	Max WS	TR200_24H_SP2	-2.10	39.53	41.39	41.39	0.000195	-0.39	6.01	7.80	7.80	0.11
Calicino	86.9			Bridge									
Calicino	86.5	Max WS	TR30_9H_SP2	4.15	39.53	41.10	40.36	41.16	0.001846	1.03	4.04	3.77	0.31
Calicino	86.5	Max WS	TR30_12H_SP2	3.84	39.53	41.14	40.32	41.18	0.001418	0.92	4.19	4.63	0.28
Calicino	86.5	Max WS	TR30_18H_SP2	0.91	39.53	41.22	39.86	41.22	0.000064	0.20	4.70	7.52	0.06
Calicino	86.5	Max WS	TR30_24H_SP2	2.74	39.53	40.93	40.18	40.97	0.001261	0.80	3.43	3.49	0.26
Calicino	86.5	Max WS	TR200_9H_SP2	3.94	39.53	41.17	40.33	41.21	0.001363	0.92	4.36	6.80	0.27

Reach	River Sta	Profile	Plan	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
Calicino	86.5	Max WS	TR200_12H_SP2	3.77	39.53	41.18	40.31	41.22	0.001198	0.86	4.46	7.47	0.26
Calicino	86.5	Max WS	TR200_18H_SP2	-2.29	39.53	41.37	40.11	41.38	0.000243	-0.43	5.91	7.78	0.12
Calicino	86.5	Max WS	TR200_24H_SP2	-2.12	39.53	41.40	40.09	41.41	0.000192	-0.39	6.12	7.83	0.11
Calicino	86.4			Lat Struct									
Calicino	86.39			Lat Struct									
Calicino	86	Max WS	TR30_9H_SP2	3.61	39.35	40.71		40.75	0.001441	0.87	4.13	3.08	0.24
Calicino	86	Max WS	TR30_12H_SP2	3.83	39.35	40.85		40.89	0.001251	0.84	4.55	3.09	0.22
Calicino	86	Max WS	TR30_18H_SP2	0.88	39.35	41.21		41.21	0.000037	0.15	5.65	3.12	0.04
Calicino	86	Max WS	TR30_24H_SP2	0.99	39.35	40.83		40.83	0.000087	0.22	4.48	3.09	0.06
Calicino	86	Max WS	TR200_9H_SP2	3.89	39.35	40.89		40.93	0.001198	0.83	4.68	3.10	0.22
Calicino	86	Max WS	TR200_12H_SP2	0.98	39.35	41.17		41.17	0.000049	0.18	5.53	3.12	0.04
Calicino	86	Max WS	TR200_18H_SP2	-5.01	39.35	41.45		41.48	0.000868	-0.78	6.41	3.14	0.17
Calicino	86	Max WS	TR200_24H_SP2	-6.32	39.35	41.50		41.54	0.001300	-0.96	6.56	3.15	0.21
Calicino	85.5			Culvert									
Calicino	85	Max WS	TR30_9H_SP2	3.34	38.84	40.65	39.41	40.66	0.000274	0.46	7.29	5.87	0.13
Calicino	85	Max WS	TR30_12H_SP2	3.83	38.84	40.77	39.46	40.78	0.000284	0.48	7.97	6.10	0.13
Calicino	85	Max WS	TR30_18H_SP2	0.88	38.84	41.20	39.08	41.20	0.000004	0.07	17.94	29.71	0.02
Calicino	85	Max WS	TR30_24H_SP2	0.99	38.84	40.82	39.11	40.82	0.000017	0.12	8.75	19.38	0.03
Calicino	85	Max WS	TR200_9H_SP2	0.99	38.84	40.87	39.11	40.87	0.000015	0.11	9.62	19.71	0.03
Calicino	85	Max WS	TR200_12H_SP2	0.98	38.84	41.16	39.10	41.16	0.000006	0.08	16.79	28.98	0.02
Calicino	85	Max WS	TR200_18H_SP2	-5.01	38.84	41.68	39.57	41.68	0.000029	-0.21	32.46	30.09	0.05
Calicino	85	Max WS	TR200_24H_SP2	-6.32	38.84	41.85	39.67	41.86	0.000030	-0.23	37.65	30.09	0.05
Calicino	84.9			Lat Struct									
Calicino	84.89			Lat Struct									
Calicino	84.109			Lat Struct									
Calicino	84	Max WS	TR30_9H_SP2	7.14	38.47	40.53	39.30	40.54	0.000268	0.55	15.46	16.02	0.15
Calicino	84	Max WS	TR30_12H_SP2	8.58	38.47	40.62	39.40	40.64	0.000301	0.60	17.03	16.34	0.15
Calicino	84	Max WS	TR30_18H_SP2	0.50	38.47	41.20	38.64	41.20	0.000000	0.02	26.93	18.24	0.01
Calicino	84	Max WS	TR30_24H_SP2	0.98	38.47	40.82	38.72	40.82	0.000002	0.06	20.28	16.99	0.01
Calicino	84	Max WS	TR200_9H_SP2	0.85	38.47	40.86	38.70	40.86	0.000002	0.05	21.05	17.14	0.01
Calicino	84	Max WS	TR200_12H_SP2	0.96	38.47	41.16	38.72	41.16	0.000001	0.04	26.21	18.11	0.01
Calicino	84	Max WS	TR200_18H_SP2	2.29	38.47	41.69	38.90	41.69	0.000003	0.07	36.31	19.88	0.02
Calicino	84	Max WS	TR200_24H_SP2	6.21	38.47	41.86	39.24	41.86	0.000015	0.18	39.83	23.57	0.04
Calicino	83	Max WS	TR30_9H_SP2	5.93	38.30	40.45	39.10	40.47	0.000446	0.65	9.12	6.28	0.17
Calicino	83	Max WS	TR30_12H_SP2	8.56	38.30	40.52	39.29	40.56	0.000816	0.89	9.57	6.41	0.23
Calicino	83	Max WS	TR30_18H_SP2	0.34	38.30	41.20	38.44	41.20	0.000000	0.02	20.60	20.71	0.00
Calicino	83	Max WS	TR30_24H_SP2	0.97	38.30	40.82	38.57	40.82	0.000006	0.08	13.07	17.79	0.02
Calicino	83	Max WS	TR200_9H_SP2	0.84	38.30	40.86	38.55	40.86	0.000004	0.07	13.92	19.58	0.02
Calicino	83	Max WS	TR200_12H_SP2	0.84	38.30	41.16	38.55	41.16	0.000002	0.05	19.78	20.57	0.01
Calicino	83	Max WS	TR200_18H_SP2	1.93	38.30	41.69	38.71	41.69	0.000003	0.08	31.75	26.24	0.02
Calicino	83	Max WS	TR200_24H_SP2	3.99	38.30	41.86	38.93	41.86	0.000010	0.14	36.20	26.63	0.03
Calicino	82.7			Lat Struct									
Calicino	82.34	Max WS	TR30_9H_SP2	6.05	38.45	40.42	39.12	40.43	0.000206	0.47	14.48	16.15	0.13
Calicino	82.34	Max WS	TR30_12H_SP2	4.25	38.45	40.50	39.00	40.50	0.000083	0.31	15.70	16.24	0.08
Calicino	82.34	Max WS	TR30_18H_SP2	0.22	38.45	41.20	38.58	41.20	0.000000	0.01	27.31	17.11	0.00
Calicino	82.34	Max WS	TR30_24H_SP2	0.95	38.45	40.82	38.70	40.82	0.000002	0.05	20.95	16.64	0.01
Calicino	82.34	Max WS	TR200_9H_SP2	0.84	38.45	40.86	38.68	40.86	0.000001	0.04	21.71	16.70	0.01
Calicino	82.34	Max WS	TR200_12H_SP2	0.85	38.45	41.16	38.69	41.16	0.000001	0.04	26.63	17.06	0.01
Calicino	82.34	Max WS	TR200_18H_SP2	-1.77	38.45	41.69	38.79	41.69	0.000001	-0.05	42.13	24.32	0.01
Calicino	82.34	Max WS	TR200_24H_SP2	1.89	38.45	41.86	38.80	41.86	0.000001	0.05	46.24	24.32	0.01
Calicino	82.33	Max WS	TR30_9H_SP2	5.67	38.36	40.42	39.07	40.43	0.000202	0.47	13.52	15.22	0.13
Calicino	82.33	Max WS	TR30_12H_SP2	4.39	38.36	40.49	38.99	40.50	0.000100	0.34	14.69	15.36	0.09
Calicino	82.33	Max WS	TR30_18H_SP2	-0.17	38.36	41.19	38.52	41.19	0.000000	-0.01	31.33	21.00	0.00
Calicino	82.33	Max WS	TR30_24H_SP2	0.79	38.36	40.82	38.65	40.82	0.000001	0.04	23.42	21.00	0.01
Calicino	82.33	Max WS	TR200_9H_SP2	0.53	38.36	40.86	38.61	40.86	0.000000	0.03	24.38	21.00	0.01
Calicino	82.33	Max WS	TR200_12H_SP2	0.00	38.36	41.15	38.38	41.15	0.000000	0.00	30.49	21.00	0.00
Calicino	82.33	Max WS	TR200_18H_SP2	-1.28	38.36	41.69	38.71	41.69	0.000001	-0.04	41.70	21.00	0.01
Calicino	82.33	Max WS	TR200_24H_SP2	1.60	38.36	41.86	38.75	41.86	0.000001	0.04	45.25	21.00	0.01
Calicino	82.329			Lat Struct									
Calicino	82.32	Max WS	TR30_9H_SP2	5.59	38.40	40.41	39.09	40.42	0.000153	0.42	16.05	18.84	0.11
Calicino	82.32	Max WS	TR30_12H_SP2	3.78	38.40	40.49	38.96	40.50	0.000055	0.26	17.59	18.84	0.07
Calicino	82.32	Max WS	TR30_18H_SP2	-0.31	38.40	41.19	38.60	41.19	0.000000	-0.01	30.81	18.84	0.00
Calicino	82.32	Max WS	TR30_24H_SP2	0.71	38.40	40.82	38.67	40.82	0.000001	0.04	23.71	18.84	0.01
Calicino	82.32	Max WS	TR200_9H_SP2	0.41	38.40	40.86	38.62	40.86	0.000000	0.02	24.57	18.84	0.00
Calicino	82.32	Max WS	TR200_12H_SP2	-0.49	38.40	41.15	38.64	41.15	0.000000	-0.02	30.05	18.84	0.00
Calicino	82.32	Max WS	TR200_18H_SP2	-1.29	38.40	41.69	38.74	41.69	0.000001	-0.04	40.11	18.84	0.01
Calicino	82.32	Max WS	TR200_24H_SP2	1.59	38.40	41.86	38.78	41.86	0.000001	0.05	43.29	18.84	0.01
Calicino	82.31	Max WS	TR30_9H_SP2	5.47	38.34	40.40	39.11	40.41	0.000204	0.47	12.83	16.30	0.13
Calicino	82.31	Max WS	TR30_12H_SP2	2.80	38.34	40.49	38.90	40.50	0.000039	0.22	15.37	19.10	0.06
Calicino	82.31	Max WS	TR30_18H_SP2	-0.31	38.34	41.19	38.57	41.19	0.000000	-0.01	28.76	19.10	0.00
Calicino	82.31	Max WS	TR30_24H_SP2	0.71	38.34	40.82	38.66	40.82	0.000001	0.04	21.56	19.10	0.01
Calicino	82.31	Max WS	TR200_9H_SP2	0.32	38.34	40.86	38.57	40.86	0.000000	0.02	22.43	19.10	0.00

Reach	River Sta	Profile	Plan	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
Calicino	82.31	Max WS	TR200_12H_SP2	-0.70	38.34	41.15	38.66	41.15	0.000000	-0.03	27.99	19.10	0.01
Calicino	82.31	Max WS	TR200_18H_SP2	-1.28	38.34	41.69	38.75	41.69	0.000001	-0.04	38.19	19.10	0.01
Calicino	82.31	Max WS	TR200_24H_SP2	1.56	38.34	41.86	38.78	41.86	0.000001	0.05	41.42	19.10	0.01
Calicino	82.309			Lat Struct									
Calicino	82.30	Max WS	TR30_9H_SP2	5.89	38.22	40.39	39.10	40.40	0.000224	0.49	13.66	15.33	0.13
Calicino	82.30	Max WS	TR30_12H_SP2	3.07	38.22	40.49	38.88	40.49	0.000044	0.23	16.07	18.51	0.06
Calicino	82.30	Max WS	TR30_18H_SP2	-0.48	38.22	41.19	38.54	41.19	0.000000	-0.02	29.09	18.51	0.00
Calicino	82.30	Max WS	TR30_24H_SP2	0.56	38.22	40.82	38.56	40.82	0.000001	0.03	22.11	18.51	0.01
Calicino	82.30	Max WS	TR200_9H_SP2	-0.08	38.22	40.86	38.37	40.86	0.000000	0.00	22.96	18.51	0.00
Calicino	82.30	Max WS	TR200_12H_SP2	-1.02	38.22	41.15	38.65	41.15	0.000001	-0.04	28.34	18.51	0.01
Calicino	82.30	Max WS	TR200_18H_SP2	-1.27	38.22	41.69	38.69	41.69	0.000001	-0.04	38.24	18.51	0.01
Calicino	82.30	Max WS	TR200_24H_SP2	1.32	38.22	41.86	38.69	41.86	0.000001	0.04	41.36	18.51	0.01
Calicino	82.29	Max WS	TR30_9H_SP2	5.20	38.34	40.39	39.01	40.39	0.000141	0.38	15.74	16.70	0.10
Calicino	82.29	Max WS	TR30_12H_SP2	2.95	38.34	40.49	38.83	40.49	0.000034	0.19	17.47	16.89	0.05
Calicino	82.29	Max WS	TR30_18H_SP2	-0.51	38.34	41.19	38.54	41.19	0.000000	-0.02	33.30	21.57	0.00
Calicino	82.29	Max WS	TR30_24H_SP2	0.56	38.34	40.82	38.55	40.82	0.000001	0.03	25.17	21.57	0.01
Calicino	82.29	Max WS	TR200_9H_SP2	-0.15	38.34	40.86	38.46	40.86	0.000000	-0.01	26.15	21.57	0.00
Calicino	82.29	Max WS	TR200_12H_SP2	-1.03	38.34	41.15	38.62	41.15	0.000001	-0.04	32.42	21.57	0.01
Calicino	82.29	Max WS	TR200_18H_SP2	-1.38	38.34	41.69	38.67	41.69	0.000001	-0.04	43.96	21.57	0.01
Calicino	82.29	Max WS	TR200_24H_SP2	1.31	38.34	41.86	38.66	41.86	0.000000	0.03	47.59	21.57	0.01
Calicino	82.289			Lat Struct									
Calicino	82.28	Max WS	TR30_9H_SP2	5.15	38.45	40.38	39.03	40.39	0.000117	0.35	17.57	18.94	0.10
Calicino	82.28	Max WS	TR30_12H_SP2	2.94	38.45	40.49	38.87	40.49	0.000028	0.18	19.68	20.40	0.05
Calicino	82.28	Max WS	TR30_18H_SP2	-0.58	38.45	41.19	38.63	41.19	0.000000	-0.02	36.46	22.68	0.00
Calicino	82.28	Max WS	TR30_24H_SP2	0.57	38.45	40.82	38.62	40.82	0.000000	0.03	27.91	22.68	0.01
Calicino	82.28	Max WS	TR200_9H_SP2	-0.25	38.45	40.86	38.57	40.86	0.000000	-0.01	28.94	22.68	0.00
Calicino	82.28	Max WS	TR200_12H_SP2	-1.09	38.45	41.15	38.69	41.15	0.000001	-0.04	35.54	22.68	0.01
Calicino	82.28	Max WS	TR200_18H_SP2	-1.72	38.45	41.69	38.76	41.69	0.000001	-0.05	47.66	22.68	0.01
Calicino	82.28	Max WS	TR200_24H_SP2	1.32	38.45	41.86	38.72	41.86	0.000000	0.03	51.49	22.68	0.01
Calicino	82.27	Max WS	TR30_9H_SP2	3.91	38.32	40.38	38.81	40.39	0.000060	0.26	17.62	20.79	0.07
Calicino	82.27	Max WS	TR30_12H_SP2	3.50	38.32	40.49	38.78	40.49	0.000036	0.21	19.85	22.10	0.05
Calicino	82.27	Max WS	TR30_18H_SP2	-0.79	38.32	41.19	38.53	41.19	0.000000	-0.03	38.90	26.43	0.01
Calicino	82.27	Max WS	TR30_24H_SP2	0.43	38.32	40.82	38.48	40.82	0.000000	0.02	28.94	26.43	0.00
Calicino	82.27	Max WS	TR200_9H_SP2	-0.63	38.32	40.86	38.51	40.86	0.000000	-0.03	30.14	26.43	0.01
Calicino	82.27	Max WS	TR200_12H_SP2	-1.43	38.32	41.15	38.60	41.15	0.000001	-0.05	37.83	26.43	0.01
Calicino	82.27	Max WS	TR200_18H_SP2	-1.92	38.32	41.69	38.66	41.69	0.000001	-0.05	51.96	26.43	0.01
Calicino	82.27	Max WS	TR200_24H_SP2	1.10	38.32	41.86	38.57	41.86	0.000000	0.02	56.42	26.43	0.00
Calicino	82.26	Max WS	TR30_9H_SP2	3.70	38.38	40.38	38.82	40.38	0.000068	0.27	13.81	10.16	0.07
Calicino	82.26	Max WS	TR30_12H_SP2	3.50	38.38	40.49	38.80	40.49	0.000032	0.19	22.74	25.30	0.05
Calicino	82.26	Max WS	TR30_18H_SP2	-0.86	38.38	41.19	38.58	41.19	0.000000	-0.02	46.83	30.24	0.01
Calicino	82.26	Max WS	TR30_24H_SP2	0.45	38.38	40.82	38.53	40.82	0.000000	0.02	35.43	30.24	0.00
Calicino	82.26	Max WS	TR200_9H_SP2	-0.68	38.38	40.86	38.56	40.86	0.000000	-0.02	36.81	30.24	0.01
Calicino	82.26	Max WS	TR200_12H_SP2	-1.46	38.38	41.15	38.64	41.15	0.000001	-0.04	45.61	30.24	0.01
Calicino	82.26	Max WS	TR200_18H_SP2	-2.28	38.38	41.69	38.71	41.69	0.000001	-0.05	61.78	30.24	0.01
Calicino	82.26	Max WS	TR200_24H_SP2	1.10	38.38	41.86	38.61	41.86	0.000000	0.02	66.87	30.24	0.00
Calicino	81.25	Max WS	TR30_9H_SP2	3.39	38.32	40.38	38.73	40.38	0.000005	0.08	60.80	75.47	0.02
Calicino	81.25	Max WS	TR30_12H_SP2	2.98	38.32	40.49	38.70	40.49	0.000003	0.06	68.80	75.47	0.02
Calicino	81.25	Max WS	TR30_18H_SP2	-0.99	38.32	41.19	38.55	41.19	0.000000	-0.01	122.26	75.47	0.00
Calicino	81.25	Max WS	TR30_24H_SP2	0.35	38.32	40.82	38.46	40.82	0.000000	0.01	93.81	75.47	0.00
Calicino	81.25	Max WS	TR200_9H_SP2	-0.89	38.32	40.86	38.54	40.86	0.000000	-0.01	97.26	75.47	0.00
Calicino	81.25	Max WS	TR200_12H_SP2	-1.69	38.32	41.15	38.62	41.15	0.000000	-0.02	119.20	75.47	0.00
Calicino	81.25	Max WS	TR200_18H_SP2	-2.38	38.32	41.69	38.66	41.69	0.000000	-0.02	159.55	75.47	0.00
Calicino	81.25	Max WS	TR200_24H_SP2	0.88	38.32	41.86	38.54	41.86	0.000000	0.01	172.27	75.47	0.00
Calicino	81.24	Max WS	TR30_9H_SP2	2.99	38.32	40.38	38.78	40.38	0.000041	0.21	15.91	22.27	0.06
Calicino	81.24	Max WS	TR30_12H_SP2	1.19	38.32	40.49	38.59	40.49	0.000005	0.08	18.35	22.27	0.02
Calicino	81.24	Max WS	TR30_18H_SP2	-1.00	38.32	41.19	38.57	41.19	0.000001	-0.04	34.08	22.27	0.01
Calicino	81.24	Max WS	TR30_24H_SP2	0.36	38.32	40.82	38.47	40.82	0.000000	0.02	25.69	22.27	0.00
Calicino	81.24	Max WS	TR200_9H_SP2	-0.90	38.32	40.86	38.56	40.86	0.000001	-0.04	26.71	22.27	0.01
Calicino	81.24	Max WS	TR200_12H_SP2	-1.62	38.32	41.15	38.64	41.15	0.000002	-0.06	33.18	22.27	0.01
Calicino	81.24	Max WS	TR200_18H_SP2	-2.37	38.32	41.69	38.72	41.69	0.000002	-0.06	45.08	22.27	0.01
Calicino	81.24	Max WS	TR200_24H_SP2	0.88	38.32	41.86	38.56	41.86	0.000000	0.02	48.84	22.27	0.00
Calicino	81.23	Max WS	TR30_9H_SP2	2.39	38.25	40.38	38.72	40.38	0.000026	0.17	14.82	18.76	0.05
Calicino	81.23	Max WS	TR30_12H_SP2	-0.37	38.25	40.49	38.46	40.49	0.000000	-0.02	17.09	22.33	0.01
Calicino	81.23	Max WS	TR30_18H_SP2	-1.13	38.25	41.19	38.58	41.20	0.000001	-0.04	32.85	22.33	0.01
Calicino	81.23	Max WS	TR30_24H_SP2	0.30	38.25	40.82	38.44	40.82	0.000000	0.01	24.44	22.33	0.00
Calicino	81.23	Max WS	TR200_9H_SP2	-1.07	38.25	40.86	38.57	40.86	0.000002	-0.05	25.45	22.33	0.01
Calicino	81.23	Max WS	TR200_12H_SP2	-1.76	38.25	41.15	38.65	41.15	0.000002	-0.07	31.95	22.33	0.01
Calicino	81.23	Max WS	TR200_18H_SP2	-2.34	38.25	41.69	38.71	41.69	0.000002	-0.06	43.89	22.33	0.01
Calicino	81.23	Max WS	TR200_24H_SP2	0.70	38.25	41.86	38.52	41.86	0.000000	0.02	47.65	22.33	0.00
Calicino	81.22	Max WS	TR30_9H_SP2	1.88	38.14	40.38	38.56	40.38	0.000019	0.15	14.75	16.13	0.04
Calicino	81.22	Max WS	TR30_12H_SP2	-2.54	38.14	40.49	38.63	40.49	0.000027	-0.18	16.48	16.13	0.04
Calicino	81.22	Max WS	TR30_18H_SP2	-1.14	38.14	41.19	38.47	41.20	0.000001	-0.05	27.91	16.13	0.01
Calicino	81.22	Max WS	TR30_24H_SP2	0.33	38.14	40.82	38.33	40.82	0.000000	0.02	21.82	16.13	0.00
Calicino	81.22	Max WS	TR200_9H_SP2	-0.98	38.14	40.86	38.44	40.86	0.000002	-0.05	22.56	16.13	0.01
Calicino	81.22	Max WS	TR200_12H_SP2	-1.65	38.14	41.15	38.53	41.15	0.000003	-0.07	27.25	16.13	0.01
Calicino	81.22	Max WS	TR200_18H_SP2	-2.81	38.14	41.69	38.66	41.69	0.000004	-0.09	35.87	16.13	0.02
Calicino	81.22	Max WS	TR200_24H_SP2	0.79	38.14	41.86	38.41	41.86	0.000000	0.02	38.59	16.13	0.00

Reach	River Sta	Profile	Plan	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
Calicino	81.21	Max WS	TR30_9H_SP2	0.31	38.03	40.38	38.20	40.38	0.000000	0.02	19.00	19.14	0.00
Calicino	81.21	Max WS	TR30_12H_SP2	-5.57	38.03	40.48		40.49	0.000071	-0.31	20.99	19.14	0.08
Calicino	81.21	Max WS	TR30_18H_SP2	-1.38	38.03	41.19		41.20	0.000001	-0.05	34.58	19.14	0.01
Calicino	81.21	Max WS	TR30_24H_SP2	0.53	38.03	40.82	38.24	40.82	0.000000	0.02	27.37	19.14	0.01
Calicino	81.21	Max WS	TR200_9H_SP2	-0.76	38.03	40.86		40.86	0.000001	-0.03	28.24	19.14	0.01
Calicino	81.21	Max WS	TR200_12H_SP2	-1.30	38.03	41.15		41.15	0.000001	-0.04	33.80	19.14	0.01
Calicino	81.21	Max WS	TR200_18H_SP2	-3.74	38.03	41.69		41.69	0.000004	-0.10	44.04	19.14	0.02
Calicino	81.21	Max WS	TR200_24H_SP2	1.86	38.03	41.86	38.40	41.86	0.000001	0.05	47.26	19.14	0.01
Calicino	80.5			Bridge									
Calicino	80.20	Max WS	TR30_9H_SP2	0.31	38.08	40.38	38.22	40.38	0.000000	0.02	25.04	24.76	0.00
Calicino	80.20	Max WS	TR30_12H_SP2	-5.59	38.08	40.49	38.82	40.50	0.000048	-0.25	27.84	24.76	0.06
Calicino	80.20	Max WS	TR30_18H_SP2	-1.38	38.08	41.19	38.41	41.19	0.000001	-0.04	45.22	24.76	0.01
Calicino	80.20	Max WS	TR30_24H_SP2	0.53	38.08	40.82	38.27	40.82	0.000000	0.02	35.88	24.76	0.00
Calicino	80.20	Max WS	TR200_9H_SP2	-0.76	38.08	40.86	38.31	40.86	0.000000	-0.03	37.01	24.76	0.01
Calicino	80.20	Max WS	TR200_12H_SP2	-1.30	38.08	41.15	38.40	41.15	0.000001	-0.04	44.21	24.76	0.01
Calicino	80.20	Max WS	TR200_18H_SP2	-3.74	38.08	41.69	38.67	41.69	0.000002	-0.08	57.46	24.76	0.02
Calicino	80.20	Max WS	TR200_24H_SP2	1.87	38.08	41.86	38.47	41.86	0.000000	0.04	61.62	24.76	0.01
Calicino	79.9			Lat Struct									
Calicino	79.89			Lat Struct									
Calicino	79.19	Max WS	TR30_9H_SP2	0.32	38.00	40.38	38.16	40.38	0.000000	0.01	24.81	18.39	0.00
Calicino	79.19	Max WS	TR30_12H_SP2	-5.59	38.00	40.50	38.65	40.50	0.000035	-0.21	27.01	21.97	0.05
Calicino	79.19	Max WS	TR30_18H_SP2	-1.81	38.00	41.19	38.35	41.19	0.000001	-0.04	48.83	29.63	0.01
Calicino	79.19	Max WS	TR30_24H_SP2	0.33	38.00	40.82	38.16	40.82	0.000000	0.01	37.66	29.63	0.00
Calicino	79.19	Max WS	TR200_9H_SP2	-2.01	38.00	40.86	38.37	40.86	0.000002	-0.06	39.00	29.63	0.01
Calicino	79.19	Max WS	TR200_12H_SP2	-3.25	38.00	41.15	38.48	41.15	0.000003	-0.08	47.61	29.63	0.02
Calicino	79.19	Max WS	TR200_18H_SP2	-3.01	38.00	41.69	38.46	41.69	0.000001	-0.06	63.49	29.63	0.01
Calicino	79.19	Max WS	TR200_24H_SP2	1.47	38.00	41.86	38.32	41.86	0.000000	0.03	68.47	29.63	0.00
Calicino	79.18	Max WS	TR30_9H_SP2	0.32	38.02	40.38	38.14	40.38	0.000000	0.02	19.18	13.61	0.00
Calicino	79.18	Max WS	TR30_12H_SP2	-5.59	38.02	40.50	38.64	40.50	0.000064	-0.34	20.94	18.97	0.07
Calicino	79.18	Max WS	TR30_18H_SP2	-1.82	38.02	41.19	38.33	41.19	0.000002	-0.07	39.37	24.36	0.01
Calicino	79.18	Max WS	TR30_24H_SP2	0.33	38.02	40.82	38.14	40.82	0.000000	0.02	30.19	24.36	0.00
Calicino	79.18	Max WS	TR200_9H_SP2	-1.88	38.02	40.86	38.34	40.86	0.000003	-0.09	31.29	24.36	0.02
Calicino	79.18	Max WS	TR200_12H_SP2	-3.00	38.02	41.15	38.44	41.15	0.000005	-0.11	38.36	24.36	0.02
Calicino	79.18	Max WS	TR200_18H_SP2	-3.03	38.02	41.69	38.45	41.69	0.000002	-0.08	51.42	24.36	0.01
Calicino	79.18	Max WS	TR200_24H_SP2	1.45	38.02	41.86	38.29	41.86	0.000000	0.04	55.51	24.36	0.01
Calicino	78.17	Max WS	TR30_9H_SP2	0.33	38.14	40.38	38.25	40.38	0.000000	0.02	23.41	17.68	0.00
Calicino	78.17	Max WS	TR30_12H_SP2	-5.55	38.14	40.50	38.78	40.50	0.000051	-0.27	25.85	24.75	0.07
Calicino	78.17	Max WS	TR30_18H_SP2	-1.99	38.14	41.19	38.48	41.19	0.000001	-0.05	47.92	28.84	0.01
Calicino	78.17	Max WS	TR30_24H_SP2	0.24	38.14	40.82	38.23	40.82	0.000000	0.01	37.05	28.84	0.00
Calicino	78.17	Max WS	TR200_9H_SP2	-1.79	38.14	40.86	38.46	40.86	0.000002	-0.06	38.34	28.84	0.01
Calicino	78.17	Max WS	TR200_12H_SP2	-2.99	38.14	41.15	38.58	41.15	0.000003	-0.08	46.73	28.84	0.02
Calicino	78.17	Max WS	TR200_18H_SP2	-3.04	38.14	41.69	38.58	41.69	0.000001	-0.06	62.20	28.84	0.01
Calicino	78.17	Max WS	TR200_24H_SP2	0.99	38.14	41.86	38.35	41.86	0.000000	0.02	67.03	28.84	0.00
Calicino	78.16	Max WS	TR30_9H_SP2	0.33	38.13	40.38	38.28	40.38	0.000000	0.02	20.42	15.05	0.00
Calicino	78.16	Max WS	TR30_12H_SP2	-5.55	38.13	40.50	38.80	40.51	0.000052	-0.30	24.56	23.37	0.07
Calicino	78.16	Max WS	TR30_18H_SP2	-2.18	38.13	41.19	38.52	41.20	0.000002	-0.07	42.52	26.08	0.01
Calicino	78.16	Max WS	TR30_24H_SP2	0.27	38.13	40.82	38.27	40.82	0.000000	0.01	32.68	26.08	0.00
Calicino	78.16	Max WS	TR200_9H_SP2	-1.54	38.13	40.86	38.45	40.86	0.000002	-0.06	33.85	26.08	0.01
Calicino	78.16	Max WS	TR200_12H_SP2	-3.12	38.13	41.15	38.61	41.15	0.000004	-0.11	41.44	26.08	0.02
Calicino	78.16	Max WS	TR200_18H_SP2	-3.44	38.13	41.69	38.64	41.69	0.000002	-0.09	55.43	26.08	0.02
Calicino	78.16	Max WS	TR200_24H_SP2	1.01	38.13	41.86	38.39	41.86	0.000000	0.02	59.79	26.08	0.00
Calicino	77	Max WS	TR30_9H_SP2	0.33	37.88	40.38	38.05	40.38	0.000000	0.02	21.83	17.77	0.00
Calicino	77	Max WS	TR30_12H_SP2	-5.57	37.88	40.50	38.54	40.51	0.000047	-0.28	24.03	17.99	0.06
Calicino	77	Max WS	TR30_18H_SP2	-2.25	37.88	41.19	38.28	41.19	0.000002	-0.07	39.99	22.81	0.01
Calicino	77	Max WS	TR30_24H_SP2	0.25	37.88	40.82	38.03	40.82	0.000000	0.01	31.39	22.81	0.00
Calicino	77	Max WS	TR200_9H_SP2	-1.61	37.88	40.86	38.22	40.86	0.000002	-0.06	32.40	22.81	0.01
Calicino	77	Max WS	TR200_12H_SP2	-3.06	37.88	41.15	38.35	41.15	0.000004	-0.10	39.04	22.81	0.02
Calicino	77	Max WS	TR200_18H_SP2	-3.71	37.88	41.69	38.40	41.69	0.000003	-0.09	51.28	22.81	0.02
Calicino	77	Max WS	TR200_24H_SP2	1.03	37.88	41.86	38.15	41.86	0.000000	0.02	55.10	22.81	0.00
Calicino	76.99			Lat Struct									
Calicino	76.98			Lat Struct									
Calicino	76.55			Lat Struct									
Calicino	76.15	Max WS	TR30_9H_SP2	0.72	37.88	40.38	38.11	40.38	0.000001	0.05	21.30	17.77	0.01
Calicino	76.15	Max WS	TR30_12H_SP2	-5.18	37.88	40.50	38.51	40.51	0.000045	-0.31	23.52	17.98	0.06
Calicino	76.15	Max WS	TR30_18H_SP2	-2.57	37.88	41.19	38.31	41.19	0.000003	-0.10	39.46	22.81	0.02
Calicino	76.15	Max WS	TR30_24H_SP2	0.13	37.88	40.82	38.00	40.82	0.000000	0.01	30.85	22.81	0.00
Calicino	76.15	Max WS	TR200_9H_SP2	-1.69	37.88	40.86	38.22	40.86	0.000002	-0.08	31.87	22.81	0.01
Calicino	76.15	Max WS	TR200_12H_SP2	-3.27	37.88	41.15	38.37	41.15	0.000006	-0.13	38.51	22.81	0.02
Calicino	76.15	Max WS	TR200_18H_SP2	-3.81	37.88	41.69	38.41	41.69	0.000003	-0.11	50.75	22.81	0.02
Calicino	76.15	Max WS	TR200_24H_SP2	0.20	37.88	41.86	38.02	41.86	0.000000	0.01	54.57	22.81	0.00
Calicino	76.14	Max WS	TR30_9H_SP2	0.72	37.81	40.38	38.08	40.38	0.000001	0.05	17.60	15.20	0.01
Calicino	76.14	Max WS	TR30_12H_SP2	-5.18	37.81	40.51	38.52	40.51	0.000053	-0.33	19.51	15.41	0.07
Calicino	76.14	Max WS	TR30_18H_SP2	-2.34	37.81	41.19	38.28	41.19	0.000003	-0.09	36.42	21.79	0.02

Reach	River Sta	Profile	Plan	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
Calicino	76.14	Max WS	TR30_24H_SP2	0.13	37.81	40.82	37.95	40.82	0.000000	0.01	28.19	21.79	0.00
Calicino	76.14	Max WS	TR200_9H_SP2	-1.43	37.81	40.86	38.18	40.86	0.000002	-0.07	29.16	21.79	0.01
Calicino	76.14	Max WS	TR200_12H_SP2	-2.44	37.81	41.15	38.29	41.15	0.000003	-0.10	35.51	21.79	0.02
Calicino	76.14	Max WS	TR200_18H_SP2	-3.84	37.81	41.69	38.42	41.69	0.000004	-0.12	47.20	21.79	0.02
Calicino	76.14	Max WS	TR200_24H_SP2	0.15	37.81	41.86	37.95	41.86	0.000000	0.00	50.86	21.79	0.00
Calicino	76.13	Max WS	TR30_9H_SP2	1.52	37.87	40.38	38.21	40.38	0.000004	0.09	22.54	17.83	0.02
Calicino	76.13	Max WS	TR30_12H_SP2	-4.58	37.87	40.51	38.51	40.51	0.000027	-0.24	27.21	23.27	0.05
Calicino	76.13	Max WS	TR30_18H_SP2	-2.66	37.87	41.19	38.34	41.19	0.000003	-0.09	43.95	24.44	0.02
Calicino	76.13	Max WS	TR30_24H_SP2	0.01	37.87	40.82	37.90	40.82	0.000000	0.00	34.73	24.44	0.00
Calicino	76.13	Max WS	TR200_9H_SP2	-1.79	37.87	40.86	38.24	40.86	0.000002	-0.07	35.80	24.44	0.01
Calicino	76.13	Max WS	TR200_12H_SP2	-2.93	37.87	41.15	38.36	41.15	0.000003	-0.10	42.92	24.44	0.02
Calicino	76.13	Max WS	TR200_18H_SP2	-4.34	37.87	41.69	38.49	41.69	0.000004	-0.11	56.05	24.44	0.02
Calicino	76.13	Max WS	TR200_24H_SP2	-0.37	37.87	41.86	38.03	41.86	0.000000	-0.01	60.14	24.44	0.00
Calicino	76.12	Max WS	TR30_9H_SP2	1.52	37.79	40.38	38.10	40.38	0.000005	0.09	22.27	18.30	0.02
Calicino	76.12	Max WS	TR30_12H_SP2	-4.58	37.79	40.51	38.40	40.51	0.000030	-0.24	26.97	25.28	0.05
Calicino	76.12	Max WS	TR30_18H_SP2	-2.78	37.79	41.19	38.24	41.19	0.000003	-0.09	44.27	25.28	0.02
Calicino	76.12	Max WS	TR30_24H_SP2	0.01	37.79	40.82	37.81	40.82	0.000000	0.00	34.74	25.28	0.00
Calicino	76.12	Max WS	TR200_9H_SP2	-1.77	37.79	40.86	38.13	40.86	0.000002	-0.07	35.83	25.28	0.01
Calicino	76.12	Max WS	TR200_12H_SP2	-3.19	37.79	41.15	38.28	41.15	0.000004	-0.11	43.20	25.28	0.02
Calicino	76.12	Max WS	TR200_18H_SP2	-4.83	37.79	41.69	38.42	41.69	0.000005	-0.12	56.79	25.28	0.02
Calicino	76.12	Max WS	TR200_24H_SP2	-0.19	37.79	41.86	37.88	41.86	0.000000	0.00	61.03	25.28	0.00
Calicino	76.11	Max WS	TR30_9H_SP2	1.52	37.70	40.38	38.12	40.38	0.000005	0.08	22.36	17.33	0.02
Calicino	76.11	Max WS	TR30_12H_SP2	-4.58	37.70	40.51	38.43	40.51	0.000033	-0.23	24.79	19.65	0.05
Calicino	76.11	Max WS	TR30_18H_SP2	-2.88	37.70	41.19	38.28	41.19	0.000003	-0.09	42.74	23.59	0.02
Calicino	76.11	Max WS	TR30_24H_SP2	0.01	37.70	40.82	37.75	40.82	0.000000	0.00	33.84	23.59	0.00
Calicino	76.11	Max WS	TR200_9H_SP2	-2.61	37.70	40.86	38.25	40.86	0.000005	-0.10	34.87	23.59	0.02
Calicino	76.11	Max WS	TR200_12H_SP2	-4.22	37.70	41.15	38.40	41.15	0.000008	-0.14	41.74	23.59	0.03
Calicino	76.11	Max WS	TR200_18H_SP2	-5.14	37.70	41.69	38.48	41.69	0.000005	-0.13	54.43	23.59	0.02
Calicino	76.11	Max WS	TR200_24H_SP2	-0.06	37.70	41.86	37.81	41.86	0.000000	0.00	58.38	23.59	0.00
Calicino	76.10	Max WS	TR30_9H_SP2	2.35	37.52	40.38	38.03	40.38	0.000009	0.14	21.25	17.23	0.03
Calicino	76.10	Max WS	TR30_12H_SP2	-4.00	37.52	40.51	38.17	40.51	0.000020	-0.21	23.76	19.04	0.04
Calicino	76.10	Max WS	TR30_18H_SP2	-3.10	37.52	41.19	38.10	41.19	0.000004	-0.11	36.73	19.04	0.02
Calicino	76.10	Max WS	TR30_24H_SP2	-0.06	37.52	40.82	37.64	40.82	0.000000	0.00	29.56	19.04	0.00
Calicino	76.10	Max WS	TR200_9H_SP2	-2.86	37.52	40.86	38.08	40.86	0.000006	-0.12	30.37	19.04	0.02
Calicino	76.10	Max WS	TR200_12H_SP2	-4.56	37.52	41.15	38.21	41.15	0.000009	-0.17	35.91	19.04	0.03
Calicino	76.10	Max WS	TR200_18H_SP2	-5.38	37.52	41.69	38.27	41.69	0.000007	-0.16	46.17	19.04	0.03
Calicino	76.10	Max WS	TR200_24H_SP2	-0.61	37.52	41.86	37.82	41.86	0.000000	-0.02	49.36	19.04	0.00
Calicino	76.09	Max WS	TR30_9H_SP2	2.36	37.74	40.38	38.21	40.38	0.000006	0.11	27.95	20.59	0.02
Calicino	76.09	Max WS	TR30_12H_SP2	-4.02	37.74	40.51	38.36	40.52	0.000014	-0.18	30.83	22.23	0.04
Calicino	76.09	Max WS	TR30_18H_SP2	-3.12	37.74	41.19	38.28	41.19	0.000003	-0.09	46.61	23.26	0.02
Calicino	76.09	Max WS	TR30_24H_SP2	-0.06	37.74	40.82	37.84	40.82	0.000000	0.00	37.84	23.26	0.00
Calicino	76.09	Max WS	TR200_9H_SP2	-3.01	37.74	40.86	38.27	40.86	0.000004	-0.11	38.83	23.26	0.02
Calicino	76.09	Max WS	TR200_12H_SP2	-4.73	37.74	41.15	38.41	41.15	0.000007	-0.14	45.61	23.26	0.03
Calicino	76.09	Max WS	TR200_18H_SP2	-5.38	37.74	41.69	38.46	41.69	0.000004	-0.13	58.14	23.26	0.02
Calicino	76.09	Max WS	TR200_24H_SP2	-0.62	37.74	41.86	37.99	41.86	0.000000	-0.01	62.03	23.26	0.00
Calicino	76.085			Lat Struct									
Calicino	76.08	Max WS	TR30_9H_SP2	3.14	37.79	40.38	38.23	40.38	0.000015	0.18	25.27	21.67	0.04
Calicino	76.08	Max WS	TR30_12H_SP2	-3.52	37.79	40.51	38.26	40.52	0.000014	-0.18	28.33	22.55	0.04
Calicino	76.08	Max WS	TR30_18H_SP2	-3.42	37.79	41.19	38.25	41.19	0.000004	-0.11	43.64	22.55	0.02
Calicino	76.08	Max WS	TR30_24H_SP2	-0.13	37.79	40.82	37.85	40.82	0.000000	-0.01	35.15	22.55	0.00
Calicino	76.08	Max WS	TR200_9H_SP2	-3.18	37.79	40.86	38.23	40.86	0.000006	-0.13	36.10	22.55	0.02
Calicino	76.08	Max WS	TR200_12H_SP2	-5.05	37.79	41.15	38.39	41.15	0.000009	-0.17	42.67	22.55	0.03
Calicino	76.08	Max WS	TR200_18H_SP2	-5.67	37.79	41.69	38.44	41.69	0.000006	-0.15	54.83	22.55	0.02
Calicino	76.08	Max WS	TR200_24H_SP2	-1.20	37.79	41.86	38.03	41.86	0.000000	-0.03	58.60	22.55	0.00
Calicino	76.07	Max WS	TR30_9H_SP2	4.00	37.74	40.38	38.23	40.38	0.000020	0.21	25.46	18.97	0.04
Calicino	76.07	Max WS	TR30_12H_SP2	-3.06	37.74	40.52	38.15	40.52	0.000009	-0.14	28.24	20.76	0.03
Calicino	76.07	Max WS	TR30_18H_SP2	-3.54	37.74	41.19	38.19	41.19	0.000004	-0.11	42.32	20.76	0.02
Calicino	76.07	Max WS	TR30_24H_SP2	-0.20	37.74	40.82	37.81	40.82	0.000000	-0.01	34.50	20.76	0.00
Calicino	76.07	Max WS	TR200_9H_SP2	-3.22	37.74	40.86	38.16	40.86	0.000005	-0.12	35.37	20.76	0.02
Calicino	76.07	Max WS	TR200_12H_SP2	-5.12	37.74	41.15	38.31	41.15	0.000009	-0.17	41.42	20.76	0.03
Calicino	76.07	Max WS	TR200_18H_SP2	-5.94	37.74	41.69	38.37	41.69	0.000006	-0.16	52.62	20.76	0.03
Calicino	76.07	Max WS	TR200_24H_SP2	-1.77	37.74	41.86	38.03	41.86	0.000000	-0.04	56.08	20.76	0.01
Calicino	76.06	Max WS	TR30_9H_SP2	4.01	37.55	40.37	38.30	40.38	0.000039	0.25	19.16	17.98	0.06
Calicino	76.06	Max WS	TR30_12H_SP2	-3.07	37.55	40.52	38.21	40.52	0.000017	-0.17	21.75	18.34	0.04
Calicino	76.06	Max WS	TR30_18H_SP2	-3.50	37.55	41.19	38.25	41.19	0.000007	-0.13	34.18	18.34	0.03
Calicino	76.06	Max WS	TR30_24H_SP2	-0.20	37.55	40.82	37.77	40.82	0.000000	-0.01	27.28	18.34	0.00
Calicino	76.06	Max WS	TR200_9H_SP2	-3.59	37.55	40.86	38.26	40.86	0.000012	-0.16	28.03	18.34	0.03
Calicino	76.06	Max WS	TR200_12H_SP2	-5.17	37.55	41.15	38.40	41.15	0.000015	-0.20	33.37	18.34	0.04
Calicino	76.06	Max WS	TR200_18H_SP2	-5.94	37.55	41.69	38.46	41.69	0.000010	-0.18	43.27	18.34	0.03
Calicino	76.06	Max WS	TR200_24H_SP2	-1.77	37.55	41.86	38.07	41.86	0.000001	-0.05	46.35	18.34	0.01
Calicino	76.05	Max WS	TR30_9H_SP2	4.82	37.53	40.37	38.16	40.38	0.000036	0.29	22.61	17.41	0.06
Calicino	76.05	Max WS	TR30_12H_SP2	-2.69	37.53	40.52	37.97	40.52	0.000009	-0.15	25.29	18.83	0.03
Calicino	76.05	Max WS	TR30_18H_SP2	-3.55	37.53	41.19	38.05	41.19	0.000005	-0.13	38.03	18.83	0.02
Calicino	76.05	Max WS	TR30_24H_SP2	-0.26	37.53	40.82	37.64	40.82	0.000000	-0.01	30.94	18.83	0.00
Calicino	76.05	Max WS	TR200_9H_SP2	-3.67	37.53	40.86	38.06	40.86	0.000009	-0.16	31.72	18.83	0.03
Calicino	76.05	Max WS	TR200_12H_SP2	-5.57	37.53	41.15	38.22	41.15	0.000014	-0.21	37.21	18.83	0.04
Calicino	76.05	Max WS	TR200_18H_SP2	-6.31	37.53	41.69	38.27	41.69	0.000009	-0.19	47.38	18.83	0.03
Calicino	76.05	Max WS	TR200_24H_SP2	-2.33	37.53	41.86	37.94	41.86	0.000001	-0.07	50.51	18.83	0.01

Reach	River Sta	Profile	Plan	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
Calicino	76	Max WS	TR30_9H_SP2	4.82	37.91	40.37	38.64	40.38	0.000107	0.33	14.64	11.10	0.09
Calicino	76	Max WS	TR30_12H_SP2	-2.64	37.91	40.52	38.43	40.52	0.000024	-0.16	16.32	11.78	0.04
Calicino	76	Max WS	TR30_18H_SP2	-3.59	37.91	41.19	38.53	41.19	0.000015	-0.13	28.16	20.62	0.03
Calicino	76	Max WS	TR30_24H_SP2	-0.26	37.91	40.82	38.05	40.82	0.000000	-0.01	20.60	16.03	0.00
Calicino	76	Max WS	TR200_9H_SP2	-3.67	37.91	40.86	38.54	40.86	0.000036	-0.17	21.34	19.76	0.05
Calicino	76	Max WS	TR200_12H_SP2	-5.37	37.91	41.15	38.68	41.15	0.000037	-0.20	27.26	20.55	0.05
Calicino	76	Max WS	TR200_18H_SP2	-6.31	37.91	41.69	38.75	41.69	0.000017	-0.16	38.61	21.41	0.04
Calicino	76	Max WS	TR200_24H_SP2	-2.33	37.91	41.86	38.40	41.86	0.000002	-0.06	42.19	21.68	0.01
Calicino	75.99			Lat Struct									
Calicino	75.04	Max WS	TR30_9H_SP2	-12.97	37.51	40.38	38.74	40.41	0.000295	-0.83	20.61	16.65	0.17
Calicino	75.04	Max WS	TR30_12H_SP2	-2.90	37.51	40.52	38.10	40.52	0.000012	-0.17	23.15	18.99	0.03
Calicino	75.04	Max WS	TR30_18H_SP2	-4.07	37.51	41.19	38.20	41.20	0.000008	-0.16	36.00	19.01	0.03
Calicino	75.04	Max WS	TR30_24H_SP2	-0.28	37.51	40.82	37.73	40.82	0.000000	-0.01	28.83	19.01	0.00
Calicino	75.04	Max WS	TR200_9H_SP2	-6.22	37.51	40.86	38.36	40.86	0.000030	-0.30	29.63	19.01	0.06
Calicino	75.04	Max WS	TR200_12H_SP2	-8.37	37.51	41.15	38.49	41.16	0.000035	-0.34	35.18	19.01	0.06
Calicino	75.04	Max WS	TR200_18H_SP2	-6.31	37.51	41.69	38.36	41.69	0.000010	-0.20	45.44	19.01	0.03
Calicino	75.04	Max WS	TR200_24H_SP2	-2.34	37.51	41.86	38.04	41.86	0.000001	-0.07	48.60	19.01	0.01
Calicino	75.03	Max WS	TR30_9H_SP2	-13.08	37.26	40.39	38.70	40.41	0.000244	-0.76	23.45	21.44	0.15
Calicino	75.03	Max WS	TR30_12H_SP2	-3.13	37.26	40.52	38.06	40.52	0.000011	-0.17	26.28	21.49	0.03
Calicino	75.03	Max WS	TR30_18H_SP2	-4.08	37.26	41.19	38.15	41.20	0.000006	-0.14	40.88	21.72	0.03
Calicino	75.03	Max WS	TR30_24H_SP2	-0.28	37.26	40.82	37.56	40.82	0.000000	-0.01	32.70	21.59	0.00
Calicino	75.03	Max WS	TR200_9H_SP2	-6.23	37.26	40.86	38.32	40.86	0.000023	-0.27	33.65	21.60	0.05
Calicino	75.03	Max WS	TR200_12H_SP2	-8.38	37.26	41.15	38.45	41.16	0.000027	-0.30	40.00	21.70	0.05
Calicino	75.03	Max WS	TR200_18H_SP2	-6.31	37.26	41.69	38.32	41.69	0.000008	-0.18	51.73	21.89	0.03
Calicino	75.03	Max WS	TR200_24H_SP2	-2.34	37.26	41.86	37.97	41.86	0.000001	-0.06	55.34	21.94	0.01
Calicino	75.02	Max WS	TR30_9H_SP2	-13.73	37.22	40.38	38.75	40.42	0.000466	-1.06	18.92	19.52	0.20
Calicino	75.02	Max WS	TR30_12H_SP2	-2.61	37.22	40.52	37.92	40.52	0.000013	-0.18	21.71	19.52	0.03
Calicino	75.02	Max WS	TR30_18H_SP2	-4.44	37.22	41.19	38.11	41.20	0.000011	-0.20	34.87	19.52	0.03
Calicino	75.02	Max WS	TR30_24H_SP2	-0.33	37.22	40.82	37.53	40.82	0.000000	-0.02	27.52	19.52	0.00
Calicino	75.02	Max WS	TR200_9H_SP2	-6.79	37.22	40.86	38.30	40.86	0.000046	-0.37	28.33	19.52	0.07
Calicino	75.02	Max WS	TR200_12H_SP2	-9.15	37.22	41.15	38.46	41.16	0.000052	-0.42	34.03	19.52	0.07
Calicino	75.02	Max WS	TR200_18H_SP2	-6.87	37.22	41.69	38.31	41.69	0.000014	-0.24	44.57	19.52	0.04
Calicino	75.02	Max WS	TR200_24H_SP2	-2.91	37.22	41.86	37.96	41.86	0.000002	-0.09	47.81	19.52	0.01
Calicino	75.01	Max WS	TR30_9H_SP2	-14.21	37.39	40.41	38.51	40.43	0.000248	-0.68	23.52	19.79	0.15
Calicino	75.01	Max WS	TR30_12H_SP2	-2.87	37.39	40.52	37.87	40.52	0.000008	-0.13	25.80	20.02	0.03
Calicino	75.01	Max WS	TR30_18H_SP2	-4.45	37.39	41.20	37.99	41.20	0.000007	-0.14	39.31	20.02	0.03
Calicino	75.01	Max WS	TR30_24H_SP2	-0.33	37.39	40.82	37.58	40.82	0.000000	-0.01	31.74	20.02	0.00
Calicino	75.01	Max WS	TR200_9H_SP2	-6.82	37.39	40.86	38.14	40.87	0.000026	-0.25	32.66	20.02	0.05
Calicino	75.01	Max WS	TR200_12H_SP2	-9.16	37.39	41.16	38.28	41.16	0.000030	-0.29	38.54	20.02	0.05
Calicino	75.01	Max WS	TR200_18H_SP2	-6.88	37.39	41.69	38.15	41.69	0.000009	-0.17	49.28	20.02	0.03
Calicino	75.01	Max WS	TR200_24H_SP2	-2.95	37.39	41.86	37.88	41.86	0.000001	-0.07	52.57	20.02	0.01
Calicino	75	Max WS	TR30_9H_SP2	-15.05	37.56	40.43	38.66	40.45	0.000359	-0.63	24.00	17.69	0.17
Calicino	75	Max WS	TR30_12H_SP2	-2.74	37.56	40.52	38.02	40.52	0.000010	-0.11	25.70	18.01	0.03
Calicino	75	Max WS	TR30_18H_SP2	-4.81	37.56	41.20	38.17	41.20	0.000009	-0.12	38.58	20.22	0.03
Calicino	75	Max WS	TR30_24H_SP2	-0.38	37.56	40.82	37.77	40.82	0.000000	-0.01	31.16	18.97	0.00
Calicino	75	Max WS	TR200_9H_SP2	-7.32	37.56	40.87	38.31	40.87	0.000036	-0.23	32.07	19.13	0.06
Calicino	75	Max WS	TR200_12H_SP2	-9.91	37.56	41.16	38.44	41.16	0.000041	-0.26	37.85	20.10	0.06
Calicino	75	Max WS	TR200_18H_SP2	-7.52	37.56	41.69	38.32	41.70	0.000011	-0.15	49.06	21.77	0.03
Calicino	75	Max WS	TR200_24H_SP2	-3.53	37.56	41.86	38.08	41.86	0.000002	-0.07	52.64	22.02	0.01
Calicino	74	Max WS	TR30_9H_SP2	5.89	37.56	40.35	38.35	40.36	0.000102	0.36	16.46	10.14	0.09
Calicino	74	Max WS	TR30_12H_SP2	-2.74	37.56	40.52	38.07	40.52	0.000017	-0.15	18.27	10.76	0.04
Calicino	74	Max WS	TR30_18H_SP2	-4.81	37.56	41.20	38.27	41.20	0.000020	-0.18	26.32	13.16	0.04
Calicino	74	Max WS	TR30_24H_SP2	-0.37	37.56	40.82	37.73	40.82	0.000000	-0.02	21.59	11.81	0.00
Calicino	74	Max WS	TR200_9H_SP2	-7.34	37.56	40.87	38.46	40.87	0.000073	-0.33	22.18	11.98	0.08
Calicino	74	Max WS	TR200_12H_SP2	-9.93	37.56	41.16	38.62	41.17	0.000089	-0.38	25.86	13.03	0.09
Calicino	74	Max WS	TR200_18H_SP2	-7.52	37.56	41.69	38.47	41.70	0.000026	-0.23	33.32	14.93	0.05
Calicino	74	Max WS	TR200_24H_SP2	-3.53	37.56	41.86	38.16	41.86	0.000005	-0.10	35.81	15.51	0.02

HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev	SA Min EI	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE019	Max WS	TR30_9H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR30_12H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR30_18H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR30_24H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_9H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_12H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_18H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR200_24H_SP2	38.24	38.20	0.00	9.05	0.40
APE020	Max WS	TR30_9H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR30_12H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR30_18H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR30_24H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_9H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_12H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_18H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR200_24H_SP2	38.10	37.95	0.26	14.80	2.20
APE021_C	Max WS	TR30_9H_SP2	40.44	38.73	-19.25	35.87	40.77
APE021_C	Max WS	TR30_12H_SP2	40.53	38.73	-19.71	35.87	44.06
APE021_C	Max WS	TR30_18H_SP2	41.19	38.73	1.61	35.87	67.90
APE021_C	Max WS	TR30_24H_SP2	40.82	38.73	0.59	35.87	54.44
APE021_C	Max WS	TR200_9H_SP2	40.86	38.73	0.90	35.87	55.97
APE021_C	Max WS	TR200_12H_SP2	41.15	38.73	9.19	35.87	66.39
APE021_C	Max WS	TR200_18H_SP2	41.69	38.73	-7.74	35.88	85.73
APE021_C	Max WS	TR200_24H_SP2	41.85	38.73	2.43	35.87	91.66
APE021_N	Max WS	TR30_9H_SP2	40.44	38.12	2.19	43.02	63.19
APE021_N	Max WS	TR30_12H_SP2	40.53	38.12	2.27	43.02	67.14
APE021_N	Max WS	TR30_18H_SP2	41.19	38.12	1.05	43.55	95.93
APE021_N	Max WS	TR30_24H_SP2	40.82	38.12	-0.03	43.20	79.63
APE021_N	Max WS	TR200_9H_SP2	40.86	38.12	0.62	43.20	81.48
APE021_N	Max WS	TR200_12H_SP2	41.15	38.12	-6.07	43.55	94.11
APE021_N	Max WS	TR200_18H_SP2	41.69	38.12	9.00	43.94	117.62
APE021_N	Max WS	TR200_24H_SP2	41.85	38.12	2.36	43.94	124.90
APE022	Max WS	TR30_9H_SP2	39.86	37.97	6.08	113.31	113.04
APE022	Max WS	TR30_12H_SP2	40.47	37.97	0.29	116.71	183.33
APE022	Max WS	TR30_18H_SP2	41.19	37.97	38.22	117.39	267.43
APE022	Max WS	TR30_24H_SP2	40.82	37.97	8.19	116.71	223.46

HEC-RAS Profile: Max WS (Continued)

Storage Area	Profile	Plan	W.S. Elev	SA Min EI	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE022	Max WS	TR200_9H_SP2	40.86	37.97	5.74	116.71	228.76
APE022	Max WS	TR200_12H_SP2	41.15	37.97	0.10	117.39	262.89
APE022	Max WS	TR200_18H_SP2	41.69	37.97	3.92	117.94	325.91
APE022	Max WS	TR200_24H_SP2	41.86	37.97	0.00	117.94	345.72
APE023_EL	Max WS	TR30_9H_SP2	40.41	38.55	0.34	89.88	105.85
APE023_EL	Max WS	TR30_12H_SP2	40.51	38.55	1.70	89.88	114.21
APE023_EL	Max WS	TR30_18H_SP2	41.19	38.55	0.17	99.79	179.37
APE023_EL	Max WS	TR30_24H_SP2	40.82	38.55	0.62	95.53	143.16
APE023_EL	Max WS	TR200_9H_SP2	40.86	38.55	0.29	95.53	147.35
APE023_EL	Max WS	TR200_12H_SP2	41.15	38.55	-0.43	99.79	175.33
APE023_EL	Max WS	TR200_18H_SP2	41.69	38.55	0.56	103.41	228.88
APE023_EL	Max WS	TR200_24H_SP2	41.86	38.55	-0.74	103.41	246.27
APE023_Lago	Max WS	TR30_9H_SP2	40.38	38.32	4.06	57.06	80.65
APE023_Lago	Max WS	TR30_12H_SP2	40.51	38.32	-0.43	57.55	88.04
APE023_Lago	Max WS	TR30_18H_SP2	41.19	38.32	1.24	60.27	128.65
APE023_Lago	Max WS	TR30_24H_SP2	40.82	38.32	0.84	58.75	106.15
APE023_Lago	Max WS	TR200_9H_SP2	40.86	38.32	1.30	59.38	108.75
APE023_Lago	Max WS	TR200_12H_SP2	41.15	38.32	1.20	59.69	126.21
APE023_Lago	Max WS	TR200_18H_SP2	41.69	38.32	0.71	61.44	158.76
APE023_Lago	Max WS	TR200_24H_SP2	41.86	38.32	1.14	61.07	169.09
APE024	Max WS	TR30_9H_SP2	39.93	38.42	-1.04	105.50	56.24
APE024	Max WS	TR30_12H_SP2	40.47	38.42	13.80	118.45	115.68
APE024	Max WS	TR30_18H_SP2	41.19	38.42	41.68	121.37	201.79
APE024	Max WS	TR30_24H_SP2	40.82	38.42	19.27	118.45	156.41
APE024	Max WS	TR200_9H_SP2	40.86	38.42	18.49	118.45	161.82
APE024	Max WS	TR200_12H_SP2	41.15	38.42	3.00	121.37	197.06
APE024	Max WS	TR200_18H_SP2	41.69	38.42	5.40	124.28	262.69
APE024	Max WS	TR200_24H_SP2	41.86	38.42	10.27	124.28	283.64
APE167	Max WS	TR30_9H_SP2	41.39	37.41	-7.86	106.60	118.78
APE167	Max WS	TR30_12H_SP2	41.39	37.41	-8.10	106.60	119.10
APE167	Max WS	TR30_18H_SP2	41.38	37.41	-7.34	106.60	118.03
APE167	Max WS	TR30_24H_SP2	41.34	37.41	-4.85	106.60	113.81
APE167	Max WS	TR200_9H_SP2	41.41	37.41	-9.44	106.60	120.86
APE167	Max WS	TR200_12H_SP2	41.41	37.41	-10.05	106.60	121.60
APE167	Max WS	TR200_18H_SP2	41.68	37.41	0.52	110.91	150.63
APE167	Max WS	TR200_24H_SP2	41.86	37.41	-3.61	110.91	169.66

HEC-RAS Profile: Max WS (Continued)

Storage Area	Profile	Plan	W.S. Elev	SA Min EI	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE200	Max WS	TR30_9H_SP2	40.33	39.08	0.00	67.18	26.24
APE200	Max WS	TR30_12H_SP2	40.40	39.08	0.00	67.18	31.01
APE200	Max WS	TR30_18H_SP2	41.20	39.08	0.01	73.54	87.06
APE200	Max WS	TR30_24H_SP2	39.34	39.08	0.02	1.60	0.06
APE200	Max WS	TR200_9H_SP2	40.53	39.08	0.13	67.18	39.78
APE200	Max WS	TR200_12H_SP2	41.16	39.08	0.06	73.54	84.17
APE200	Max WS	TR200_18H_SP2	41.68	39.08	-0.17	75.37	122.87
APE200	Max WS	TR200_24H_SP2	41.85	39.08	2.74	75.37	135.80
ArealInvaso_N	Max WS	TR30_9H_SP2	40.44	38.21	8.37	10.46	16.36
ArealInvaso_N	Max WS	TR30_12H_SP2	40.53	38.21	9.99	10.46	17.32
ArealInvaso_N	Max WS	TR30_18H_SP2	41.19	38.21	3.41	10.46	24.27
ArealInvaso_N	Max WS	TR30_24H_SP2	40.82	38.21	2.72	10.46	20.35
ArealInvaso_N	Max WS	TR200_9H_SP2	40.86	38.21	-2.70	10.46	20.80
ArealInvaso_N	Max WS	TR200_12H_SP2	41.15	38.21	-2.40	10.38	23.83
ArealInvaso_N	Max WS	TR200_18H_SP2	41.69	38.21	3.45	10.46	29.47
ArealInvaso_N	Max WS	TR200_24H_SP2	41.85	38.21	1.15	10.46	31.20
ArealInvaso_S	Max WS	TR30_9H_SP2	40.44	38.14	-0.87	22.86	34.08
ArealInvaso_S	Max WS	TR30_12H_SP2	40.53	38.14	-0.53	22.86	36.18
ArealInvaso_S	Max WS	TR30_18H_SP2	41.19	38.14	-1.91	22.95	51.43
ArealInvaso_S	Max WS	TR30_24H_SP2	40.82	38.14	-2.41	22.90	42.82
ArealInvaso_S	Max WS	TR200_9H_SP2	40.86	38.14	2.95	22.94	43.78
ArealInvaso_S	Max WS	TR200_12H_SP2	41.15	38.14	3.74	22.95	50.45
ArealInvaso_S	Max WS	TR200_18H_SP2	41.69	38.14	-1.45	22.97	62.84
ArealInvaso_S	Max WS	TR200_24H_SP2	41.85	38.14	1.20	22.97	66.63
NordPantanelle	Max WS	TR30_9H_SP2	40.00	38.79	0.00	31.26	28.60
NordPantanelle	Max WS	TR30_12H_SP2	40.03	38.79	0.47	31.30	29.39
NordPantanelle	Max WS	TR30_18H_SP2	41.19	38.79	0.00	31.79	66.09
NordPantanelle	Max WS	TR30_24H_SP2	40.82	38.79	0.00	31.39	54.16
NordPantanelle	Max WS	TR200_9H_SP2	40.86	38.79	0.00	31.76	55.55
NordPantanelle	Max WS	TR200_12H_SP2	41.15	38.79	0.00	31.79	64.81
NordPantanelle	Max WS	TR200_18H_SP2	41.69	38.79	0.00	31.48	81.76
NordPantanelle	Max WS	TR200_24H_SP2	41.86	38.79	0.03	31.79	87.10

RISULTATI MODELLO HEC-RAS

**Condizione al contorno di moto uniforme
alla sezione di chiusura del Torrente Bardena**

TEMPO DI RITORNO 5 anni

Geometria del modello idraulico

Profili MAX WS tempi di ritorno 5 anni

Sezioni MAX WS tempi di ritorno 5 anni

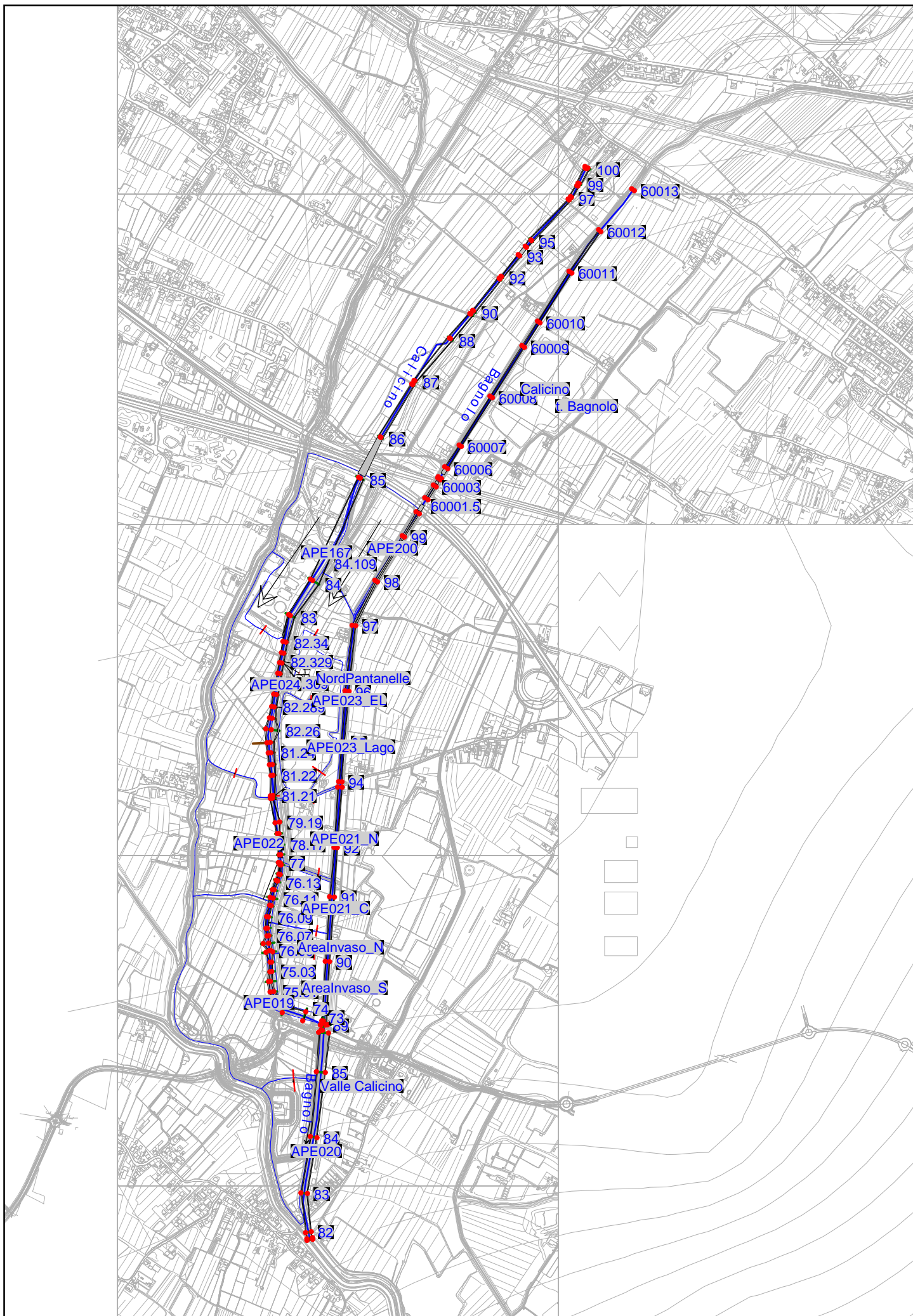
Tabella MAX WS sezioni idrauliche

Tabella MAX WS storage area

Idrogrammi delle quote del pelo libero AreaInvaso_S

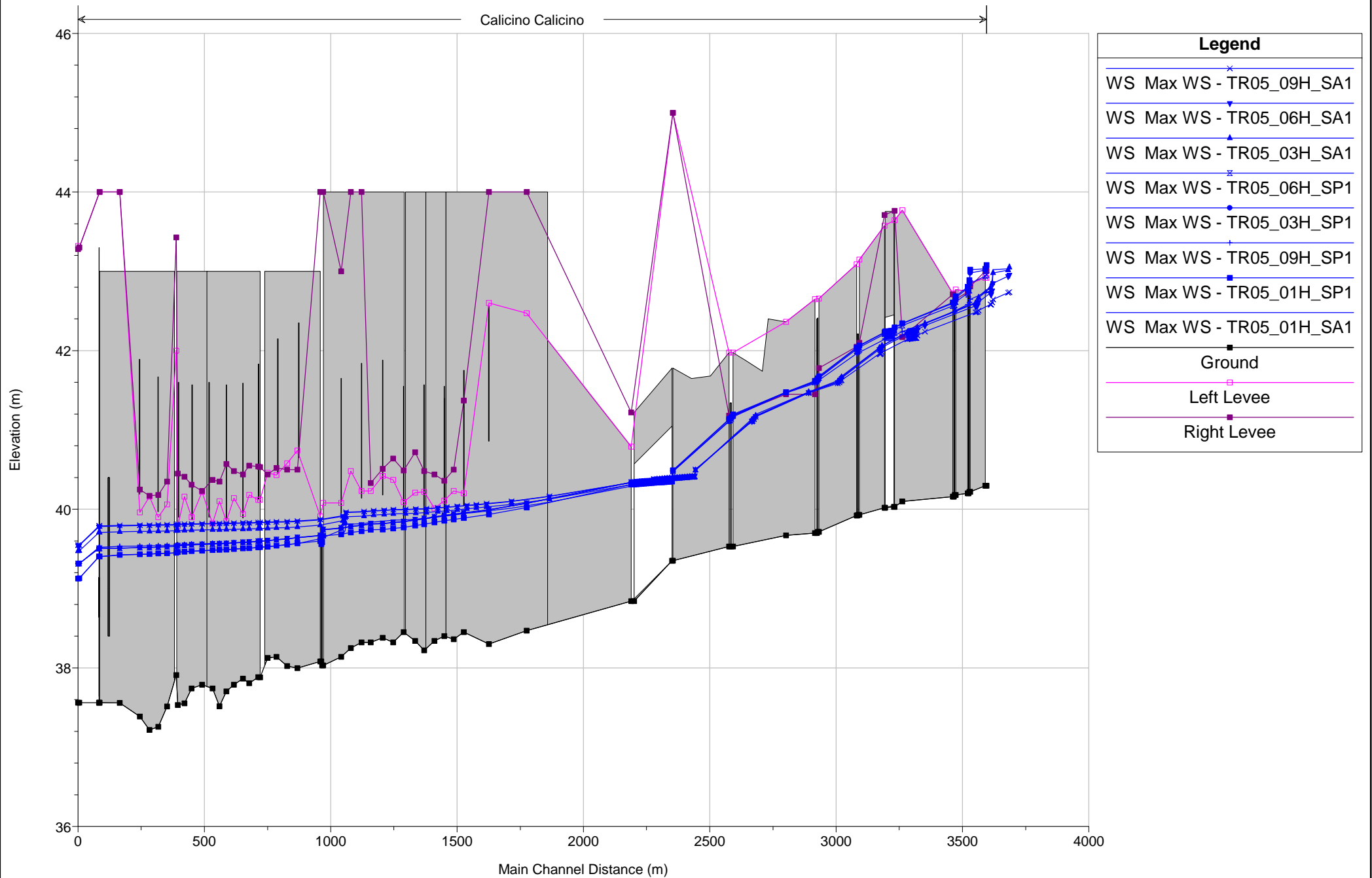
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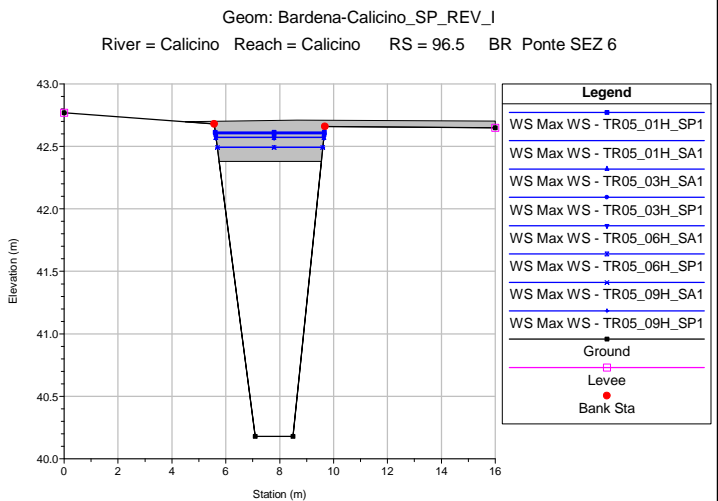
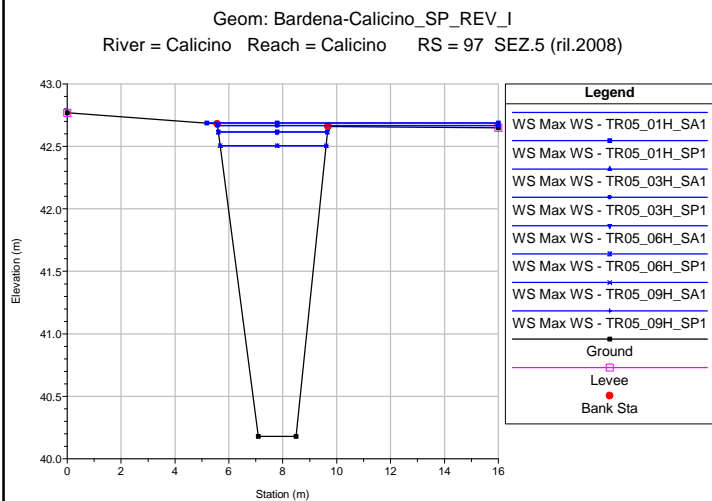
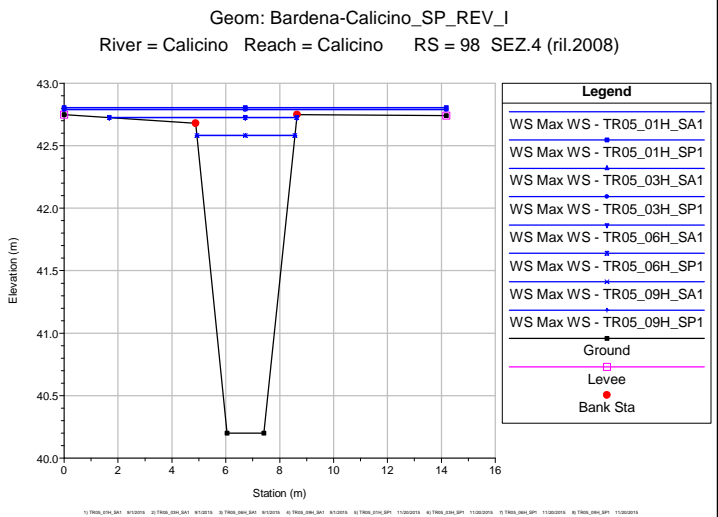
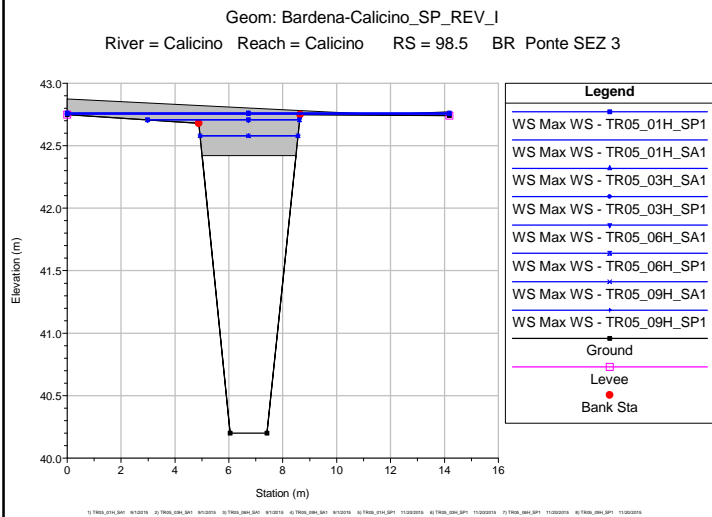
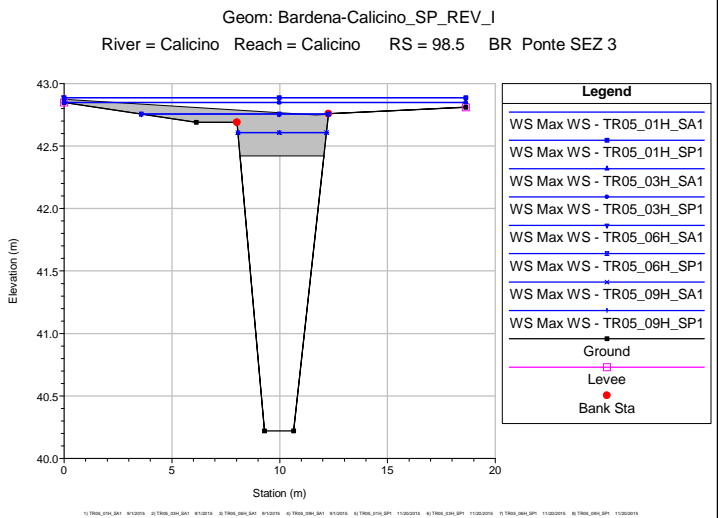
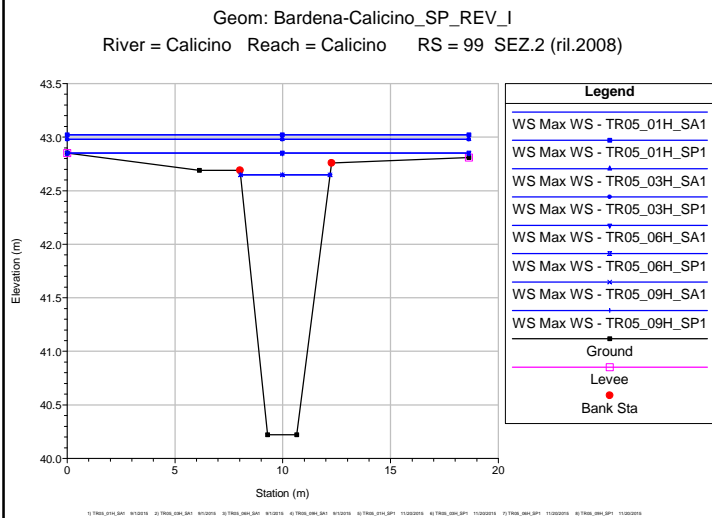
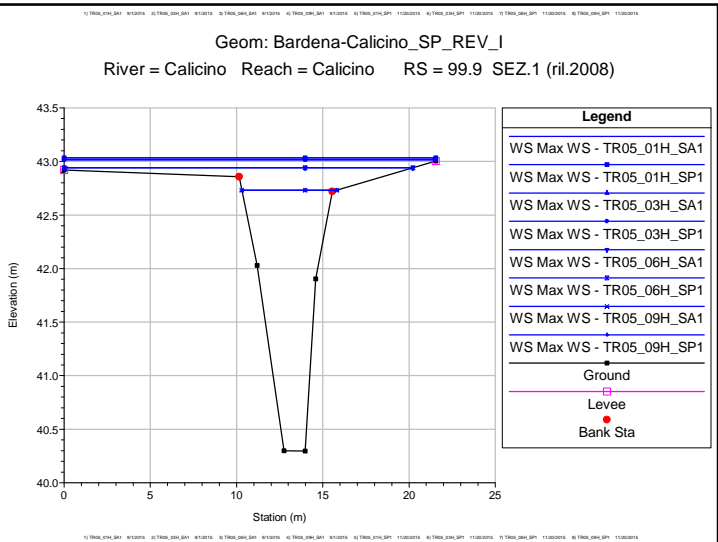
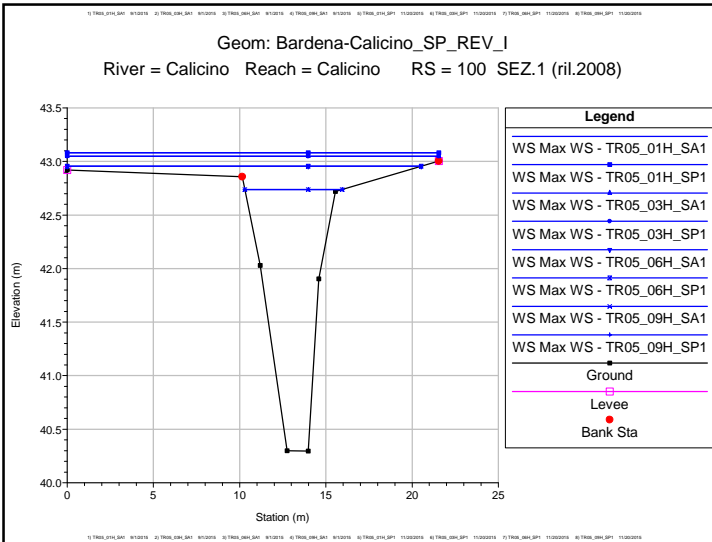
Idrogrammi delle quote del pelo libero Nord Pantanelle

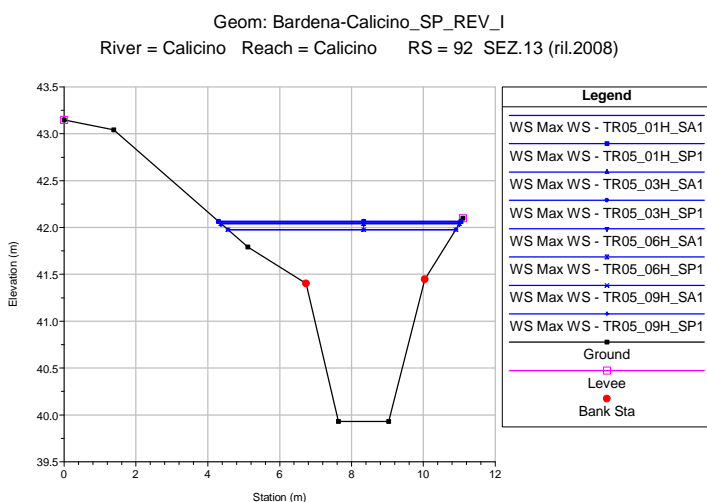
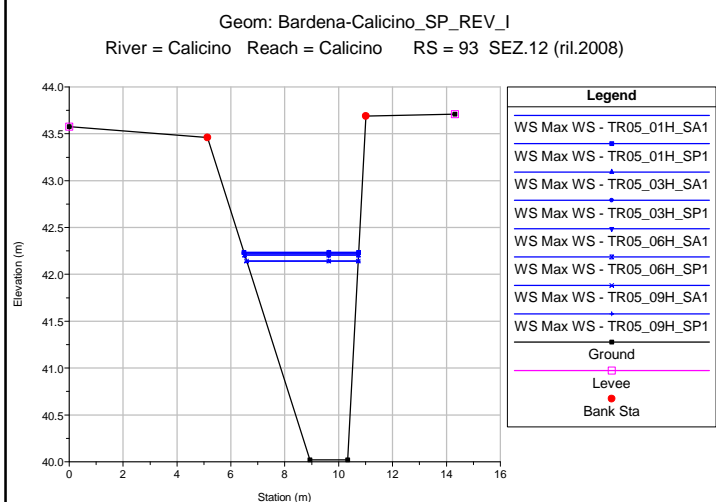
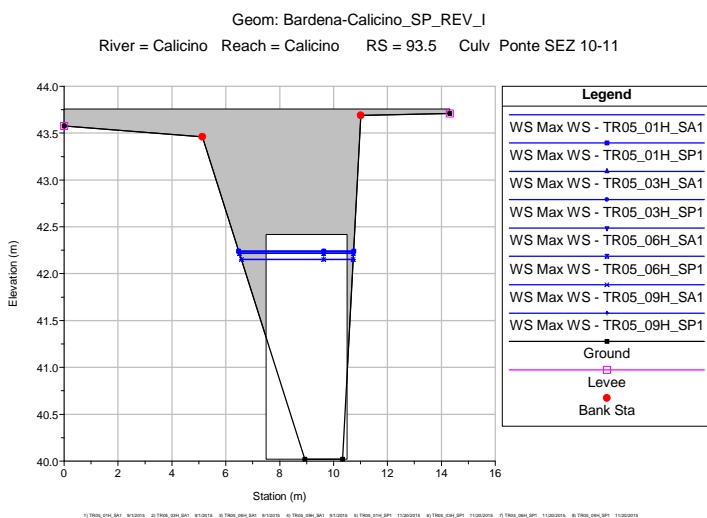
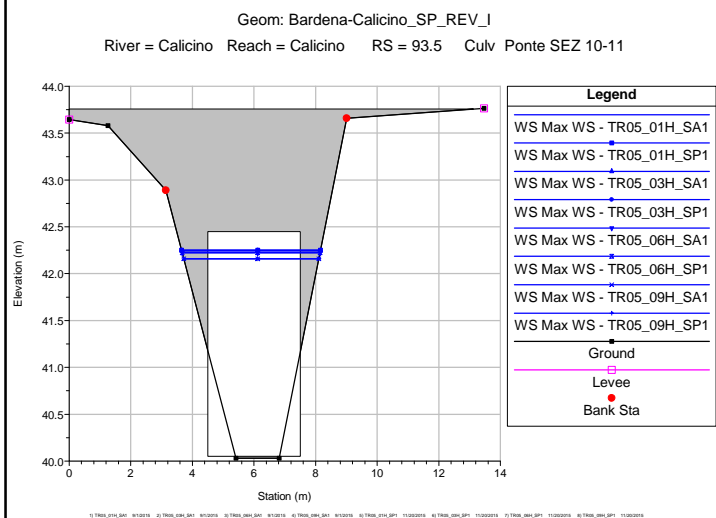
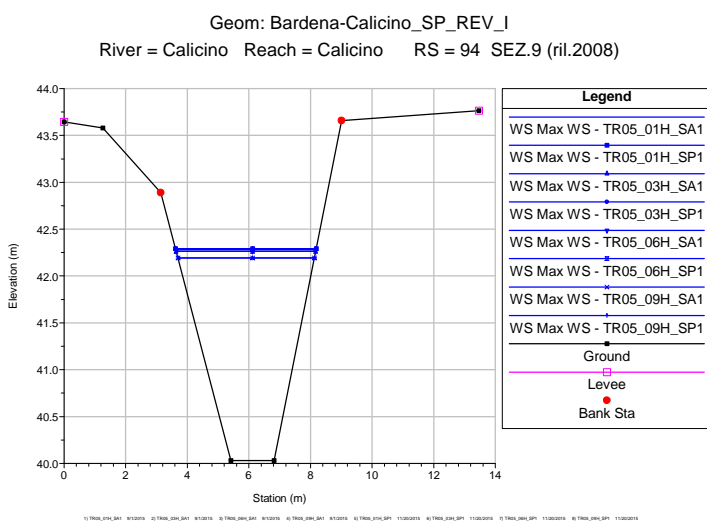
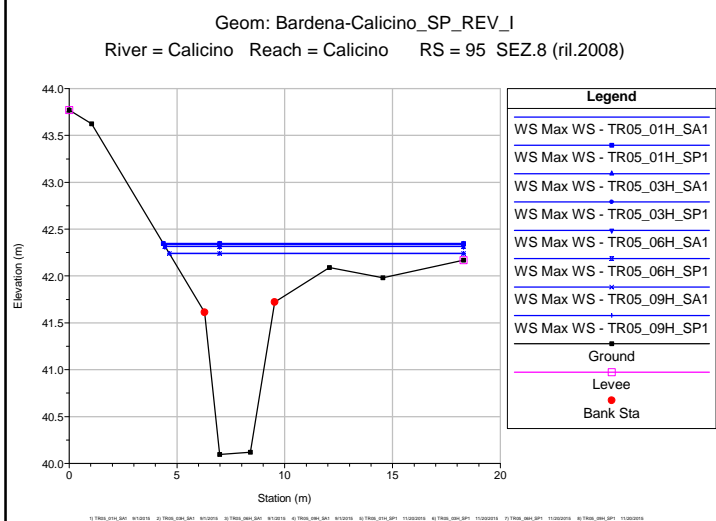
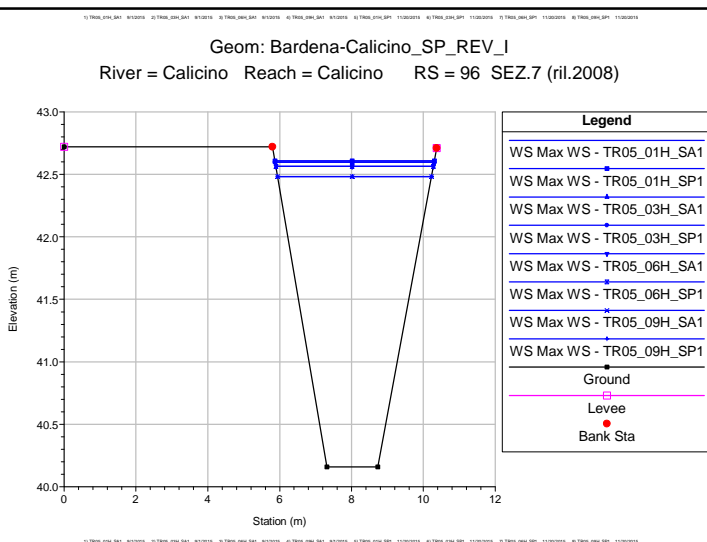
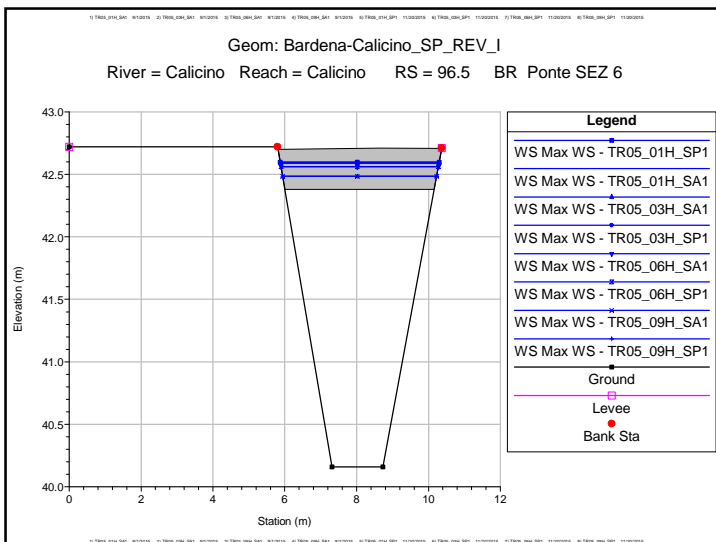


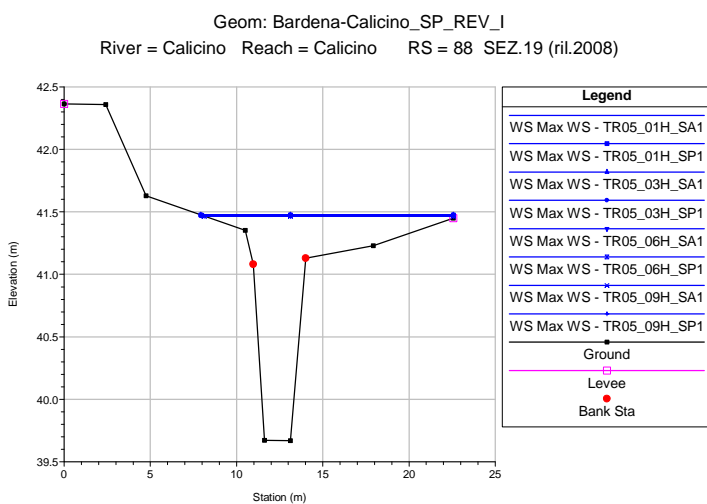
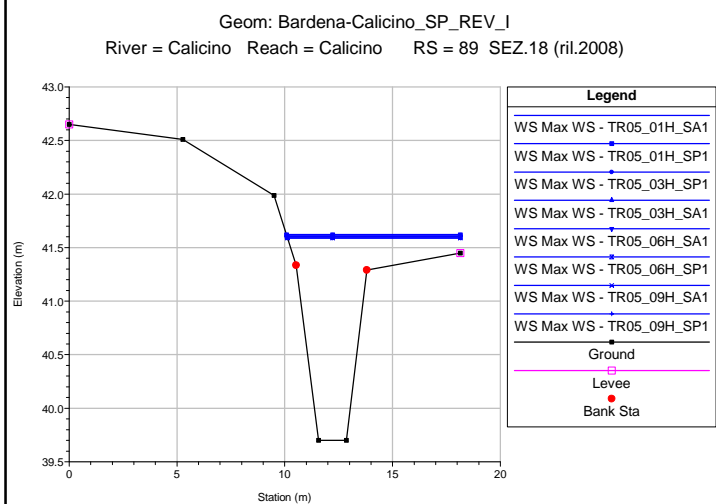
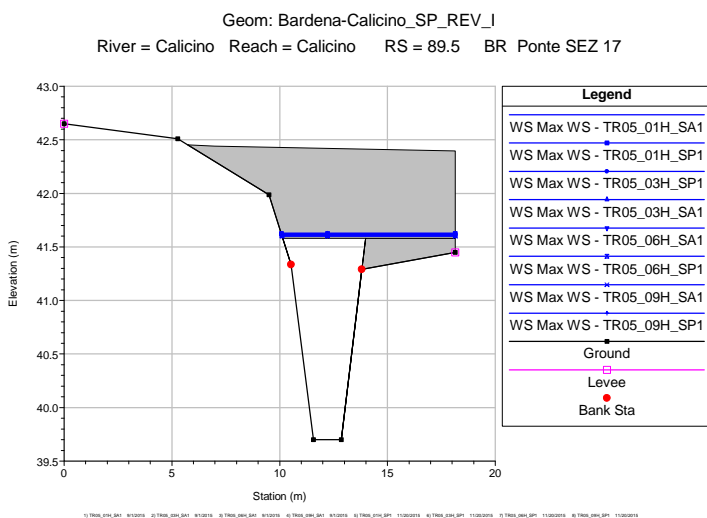
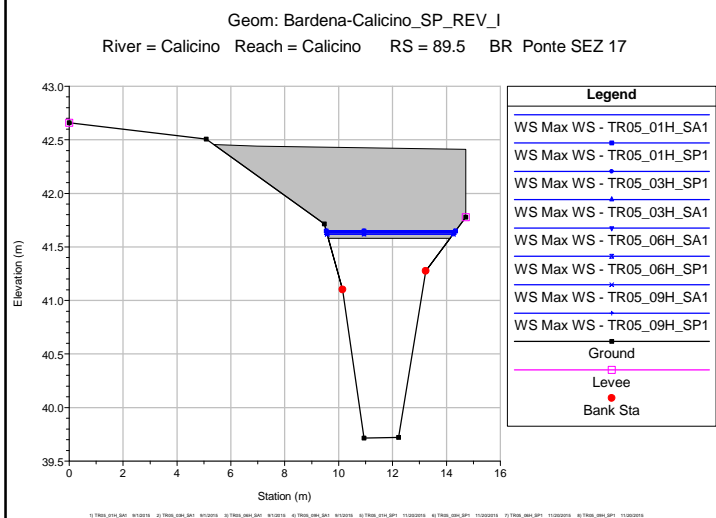
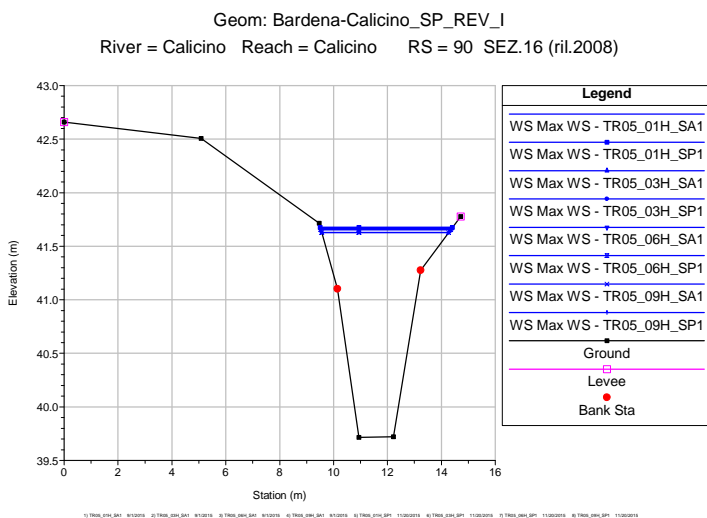
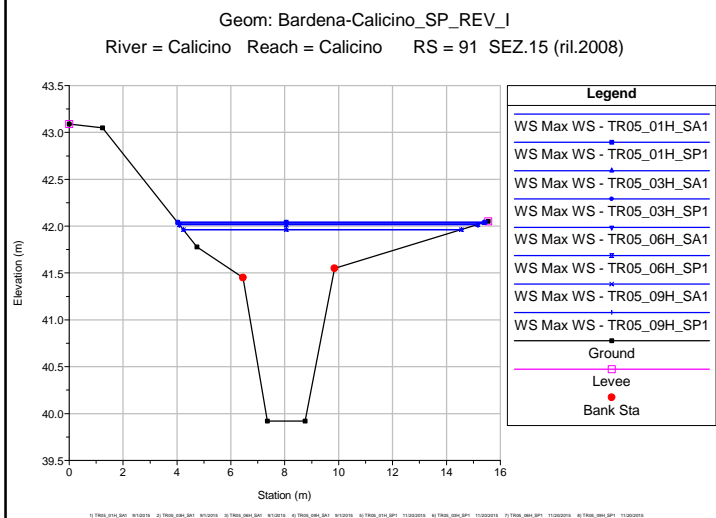
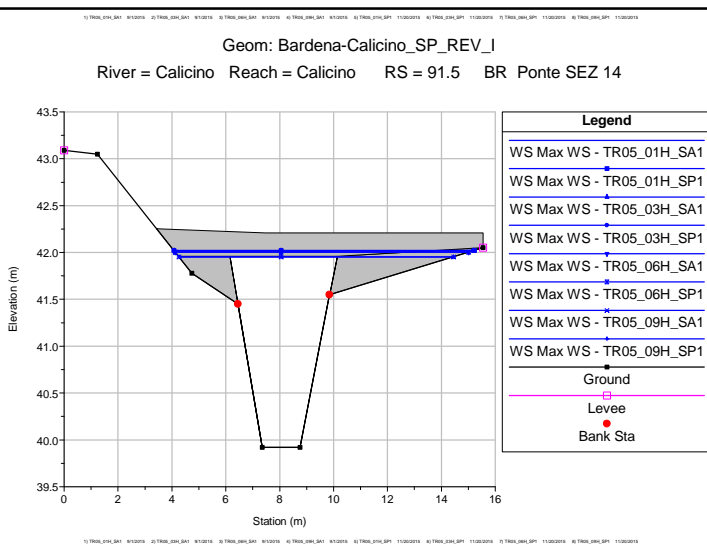
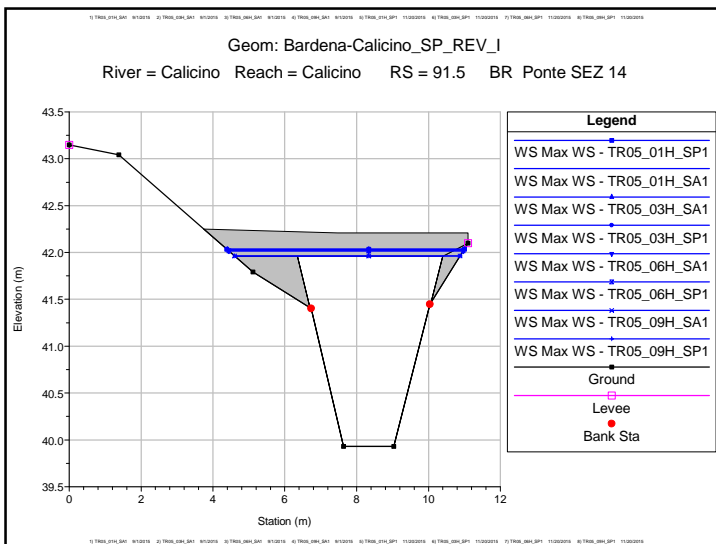
12 of the 94 XS's are not Geo-Referenced (Geo-Ref user entered XS, Geo-Ref interpolated XS, Non Geo-Ref user entered XS, Non Geo-Ref interpolated XS)
 1 cm Horiz. = 174 m 1 cm Vert. = 57 m

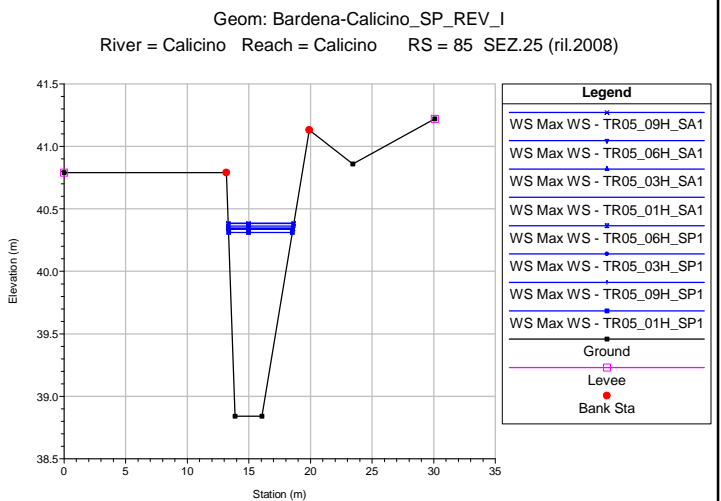
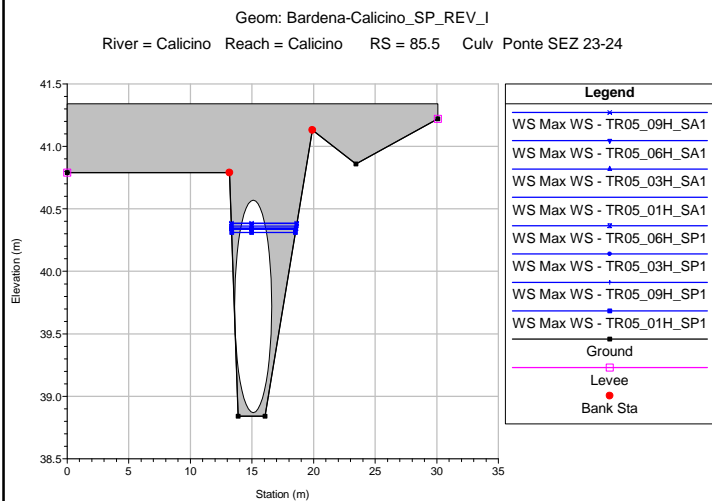
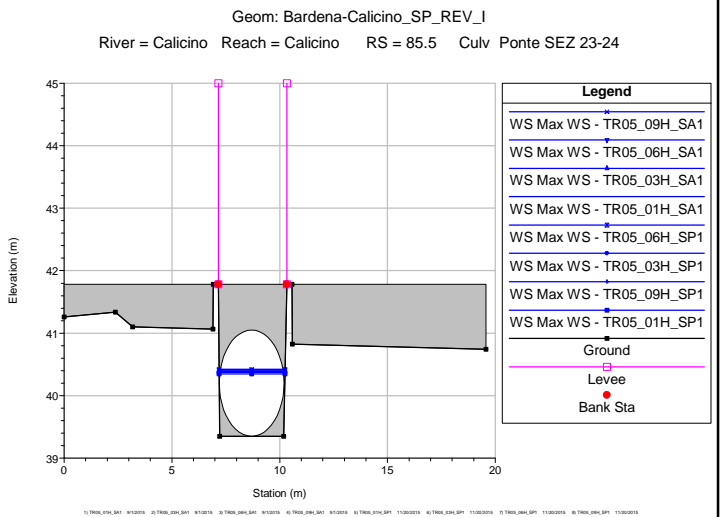
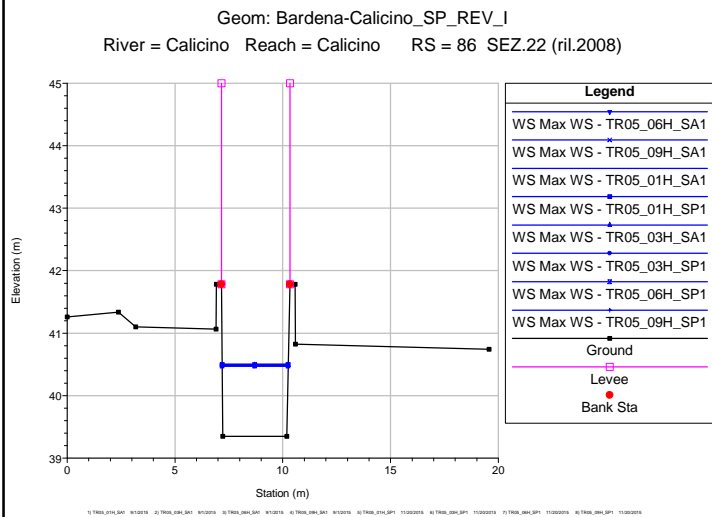
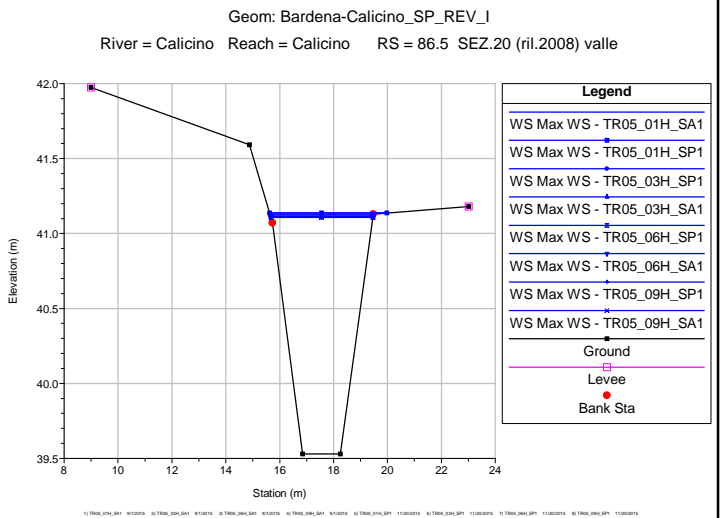
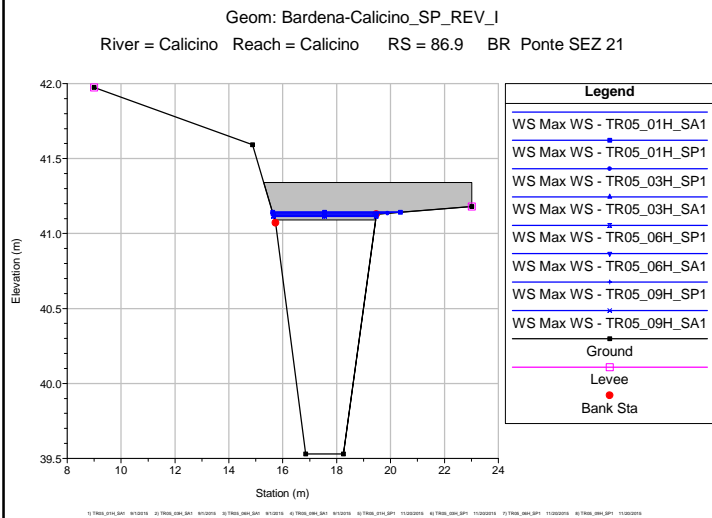
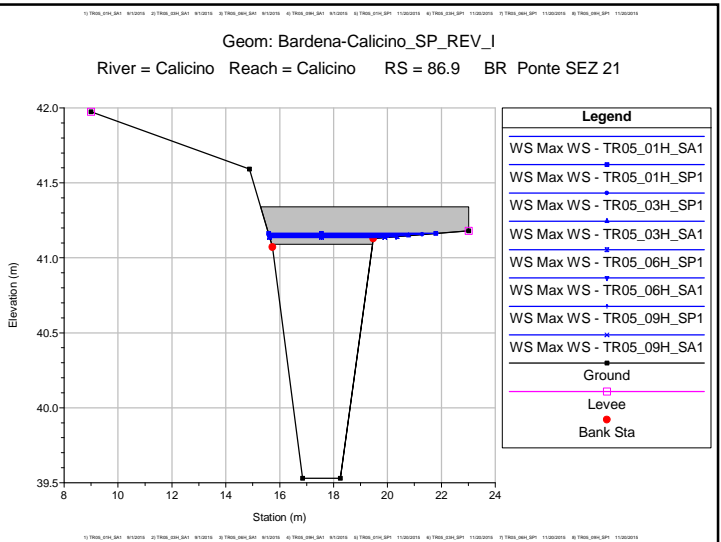
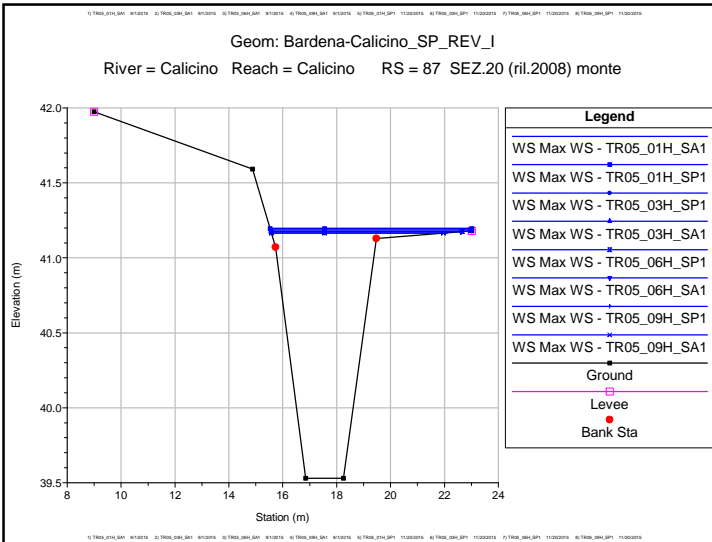
Geom: Bardena-Calicino_SP_REV_I

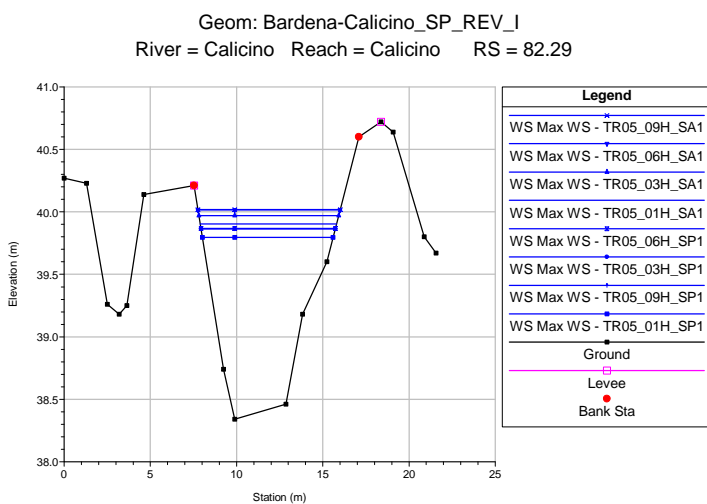
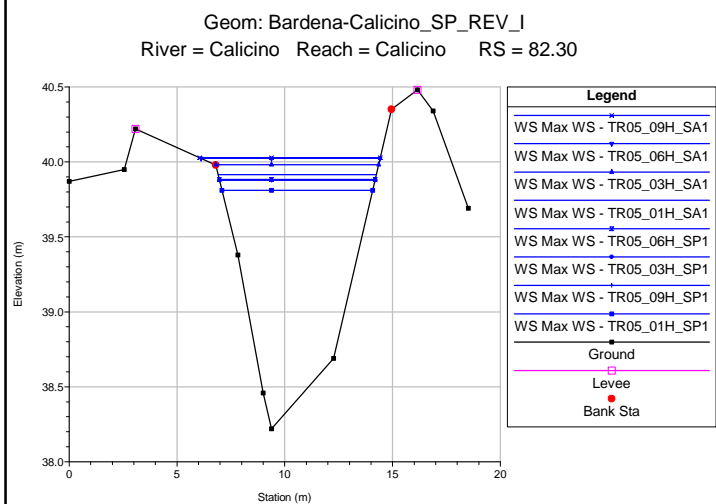
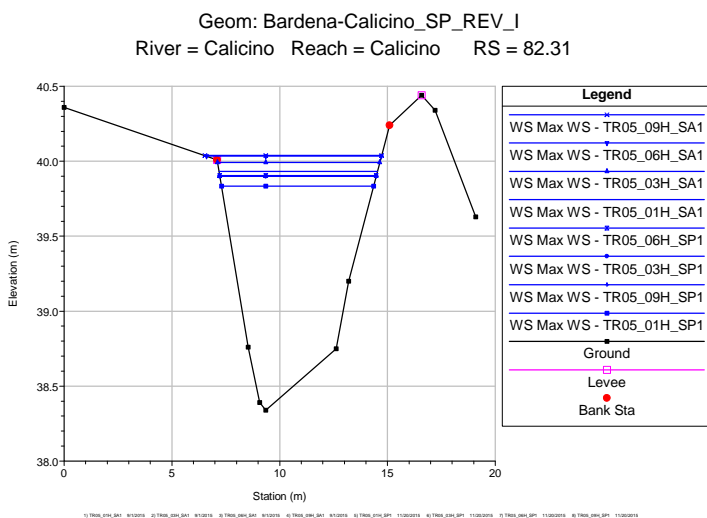
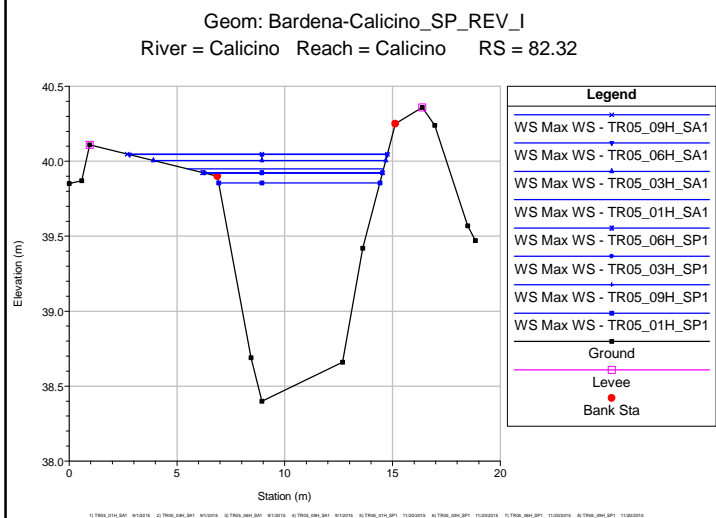
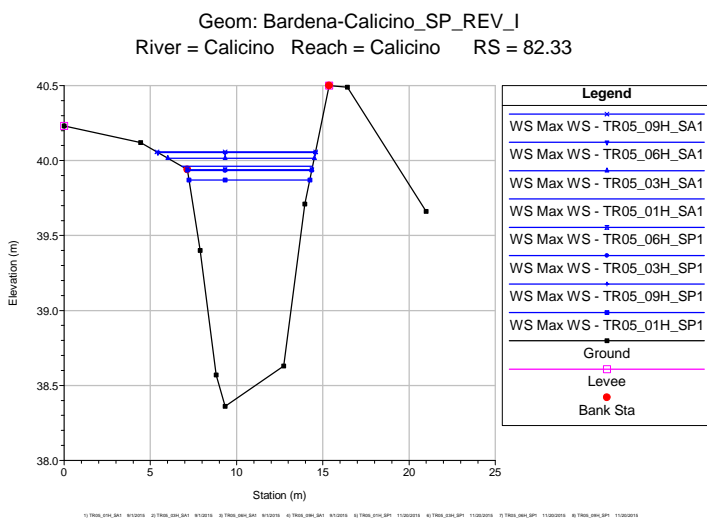
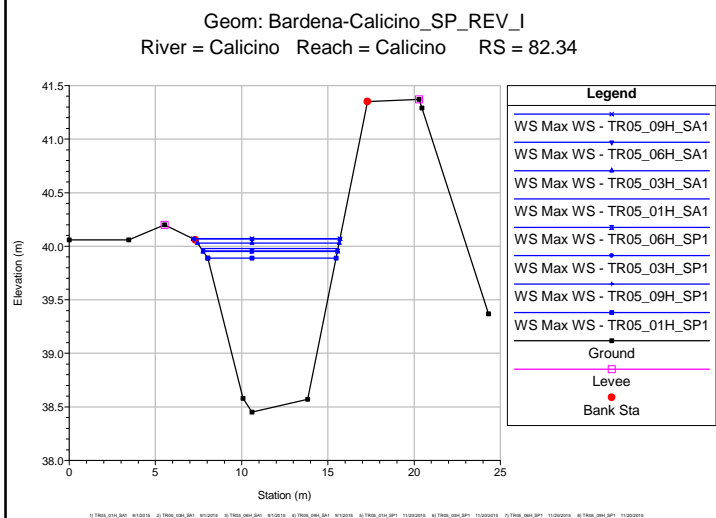
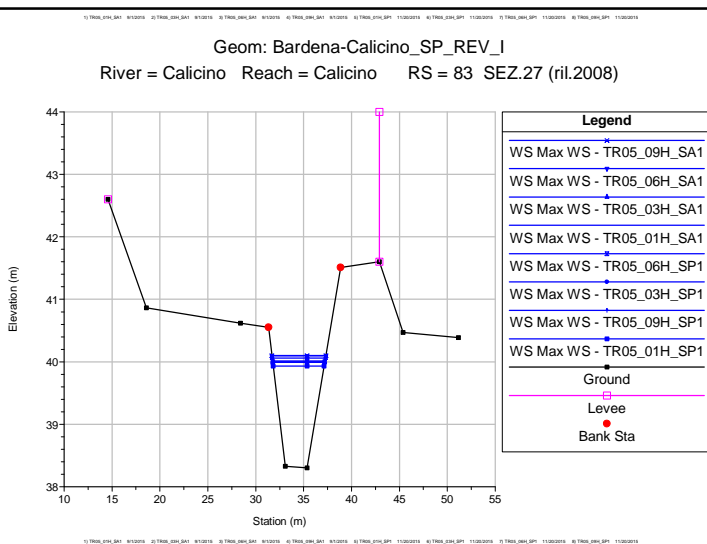
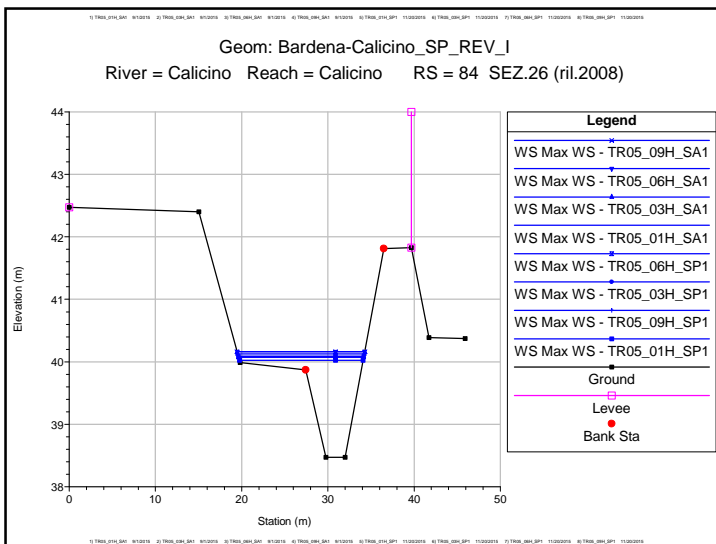


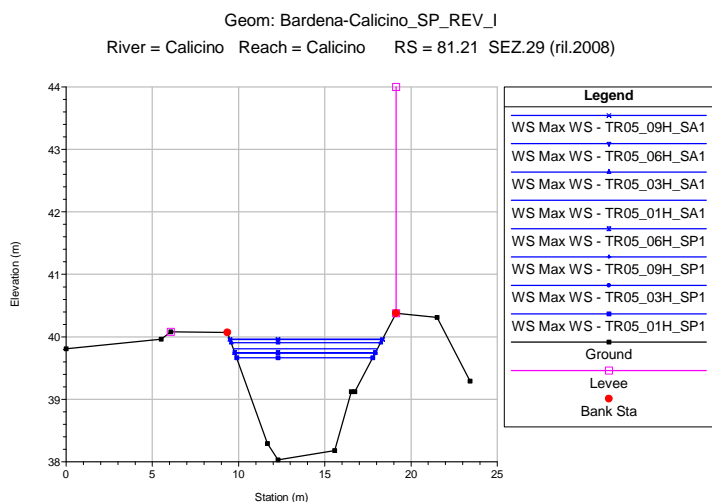
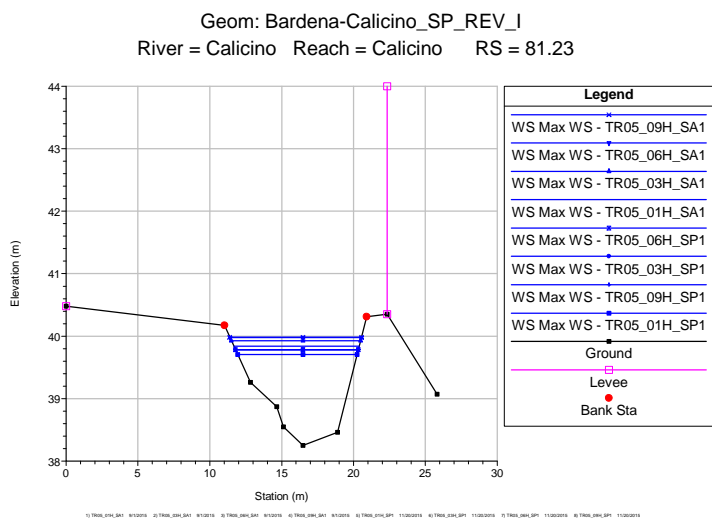
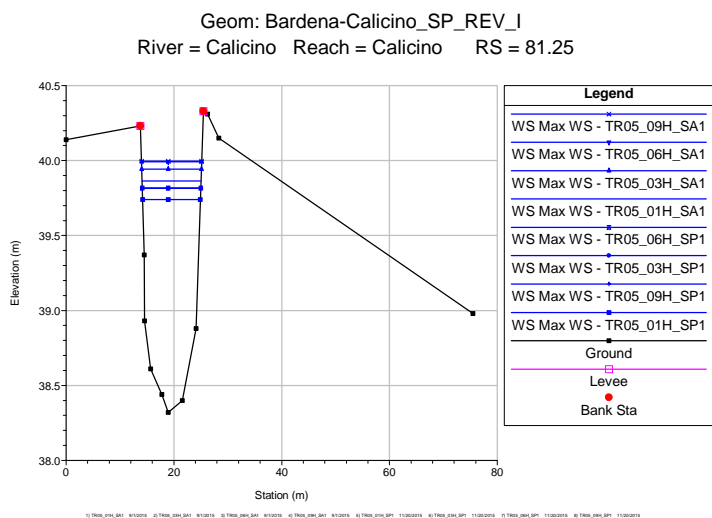
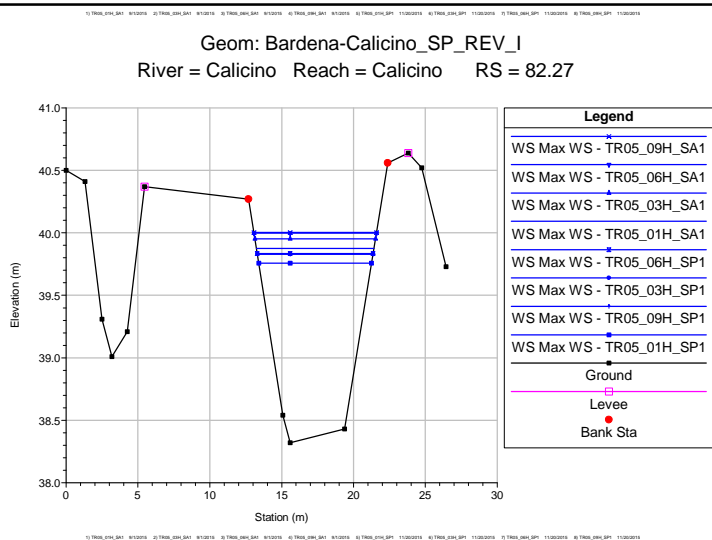


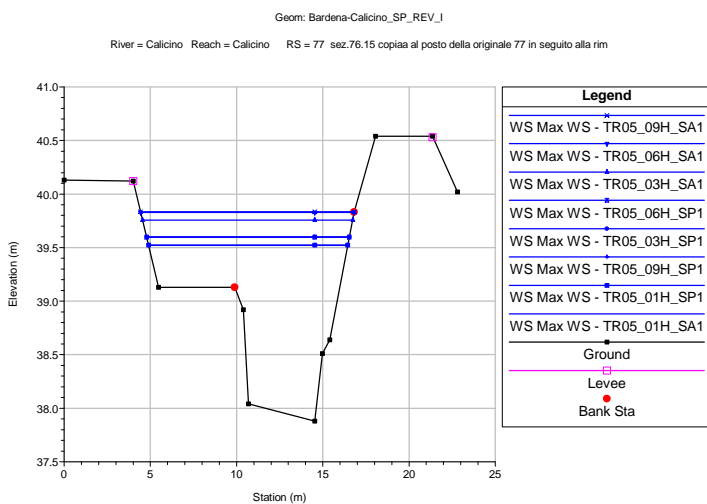
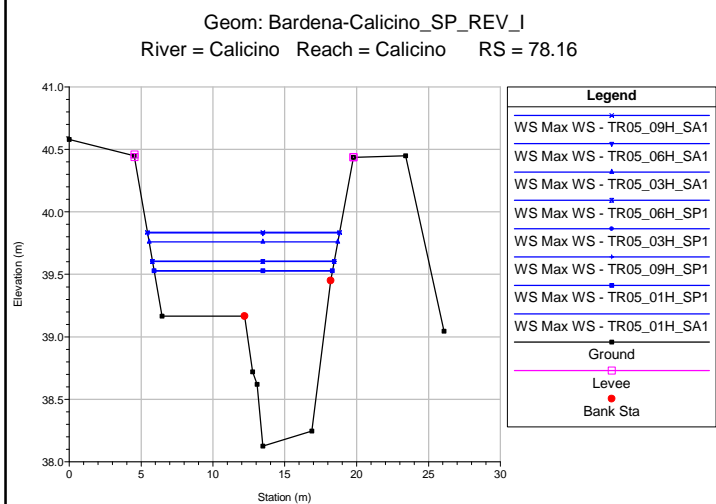
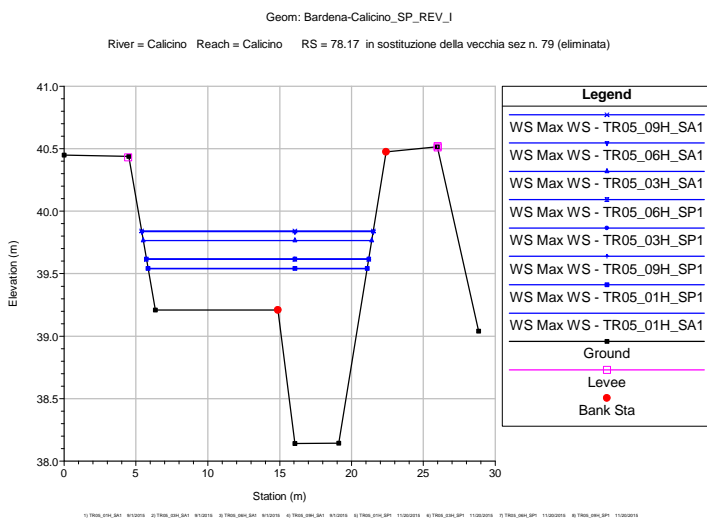
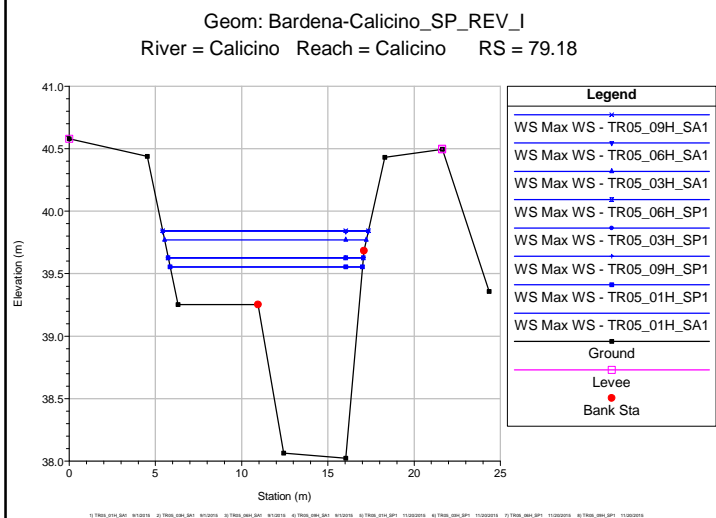
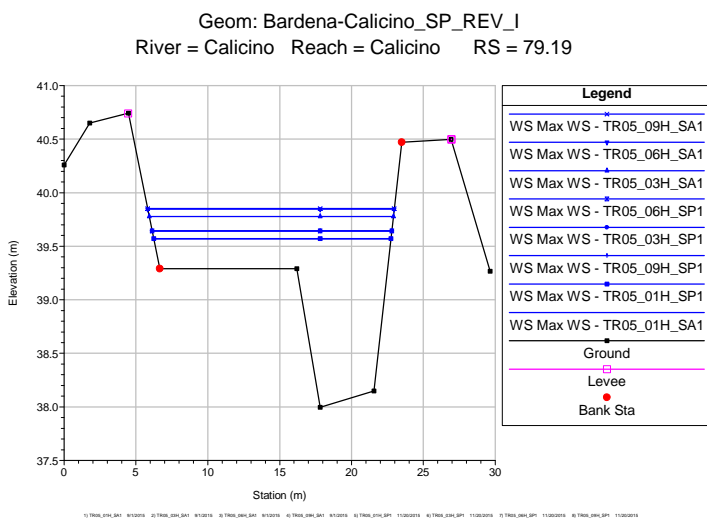
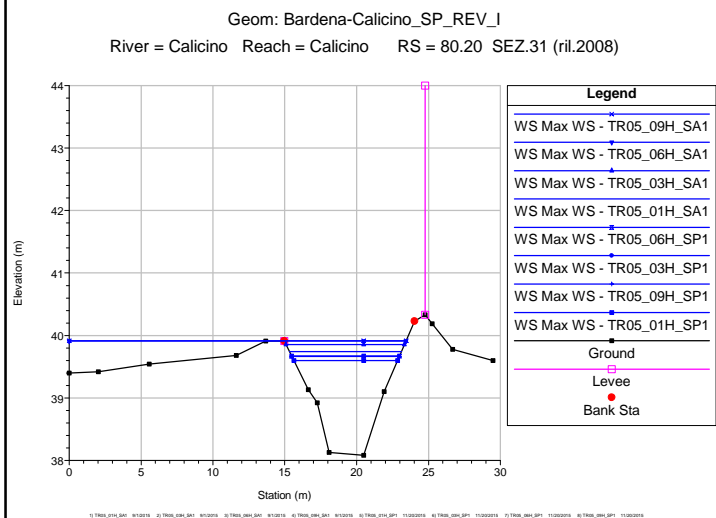
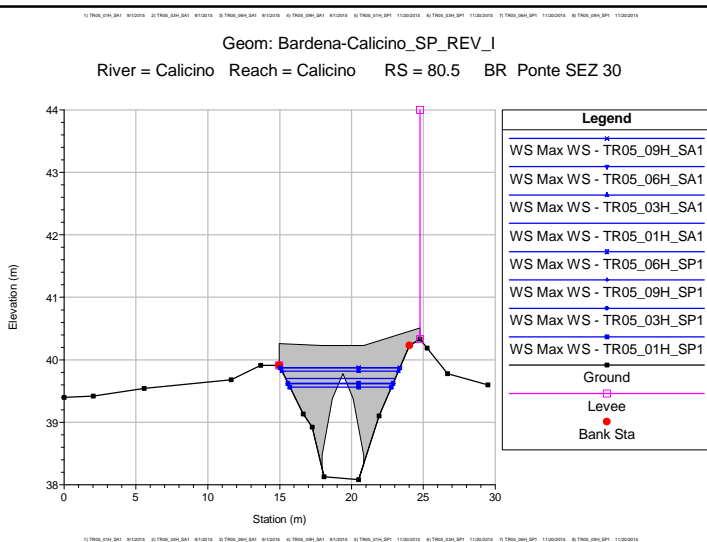
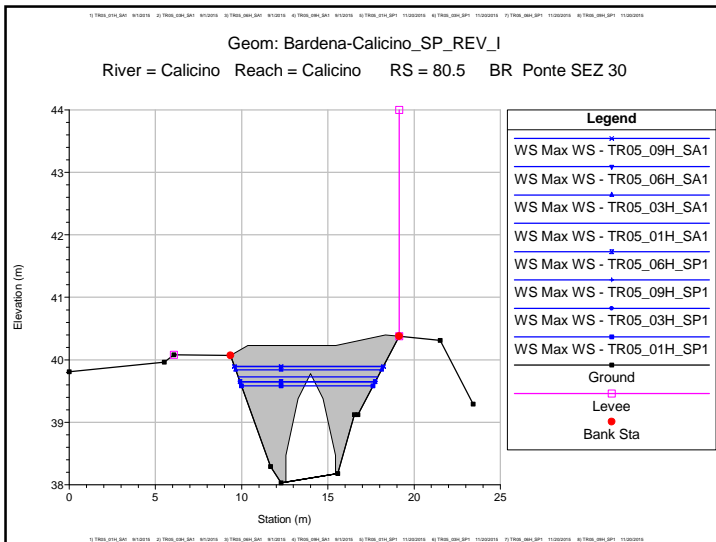




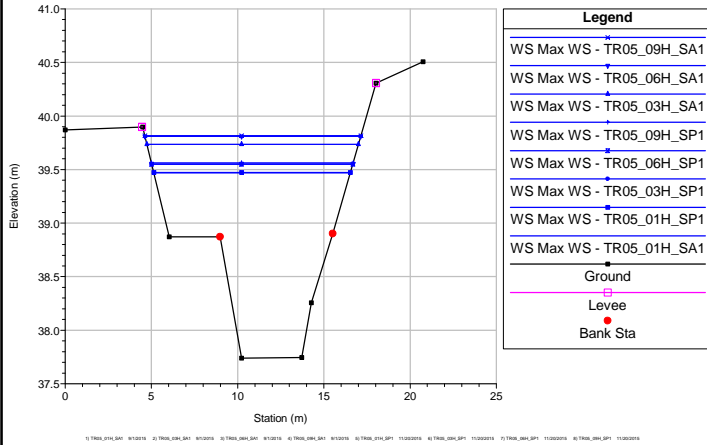




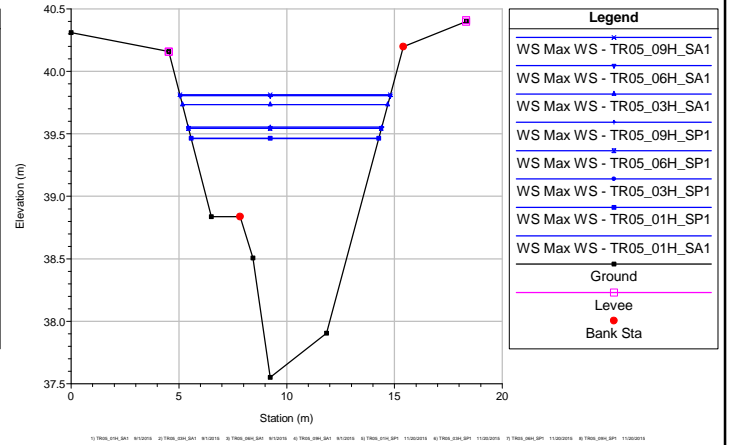




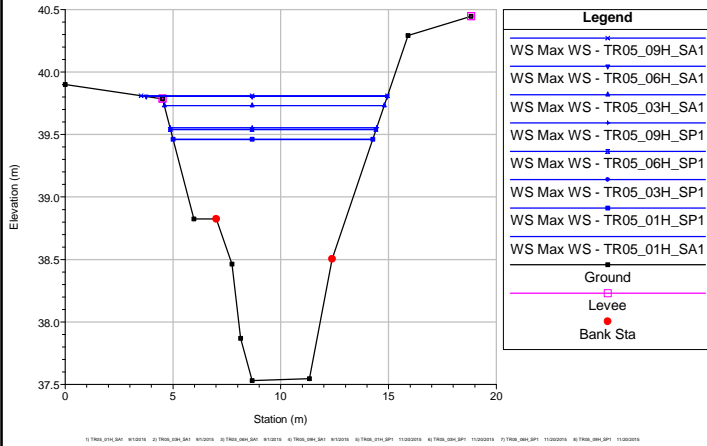
Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 76.07



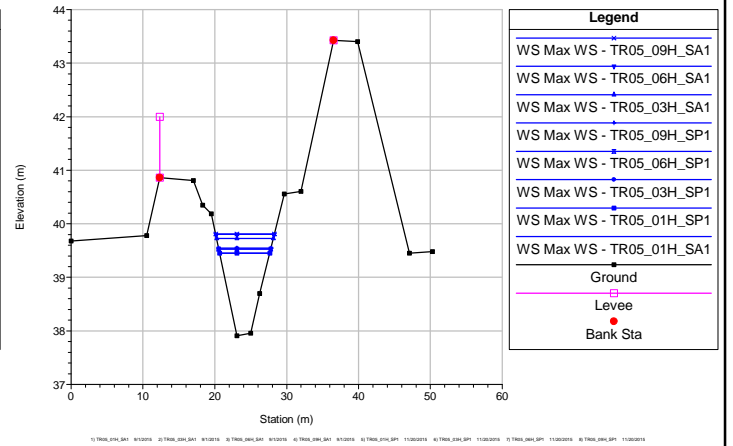
Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 76.06



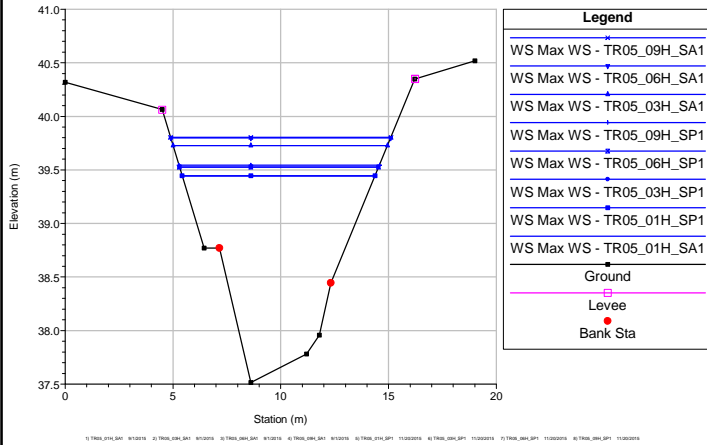
Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 76.05



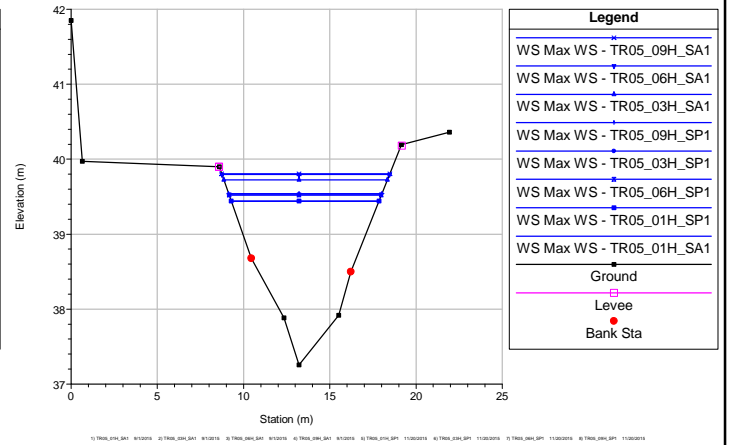
Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 76 SEZ.36 (ril.2008)



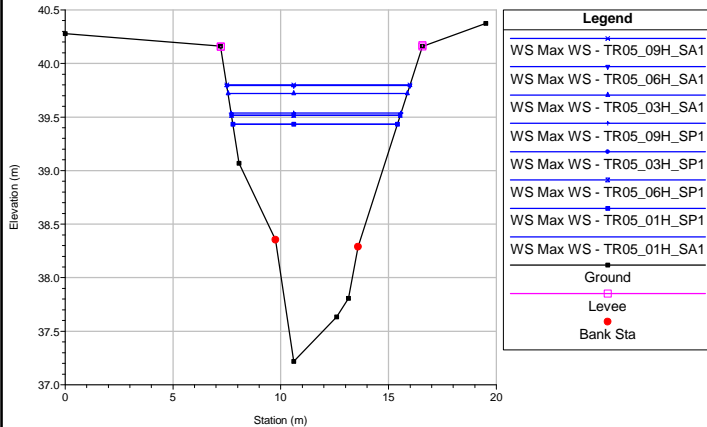
Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 75.04



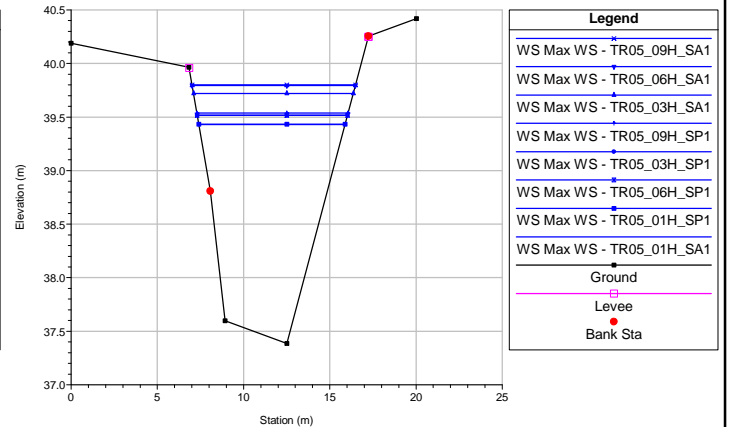
Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 75.03

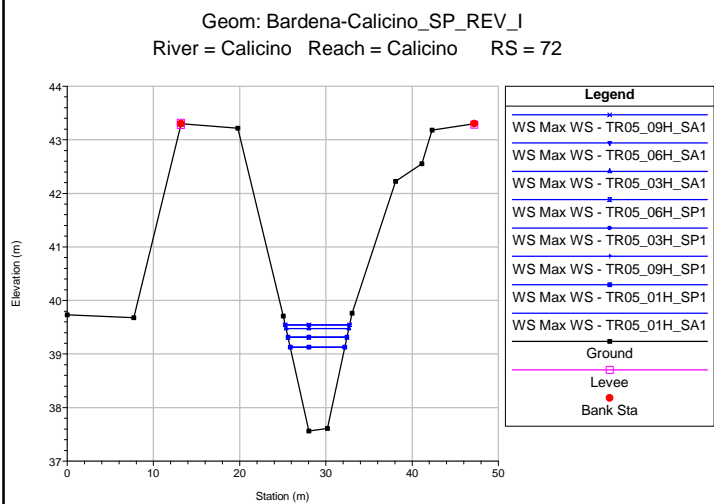
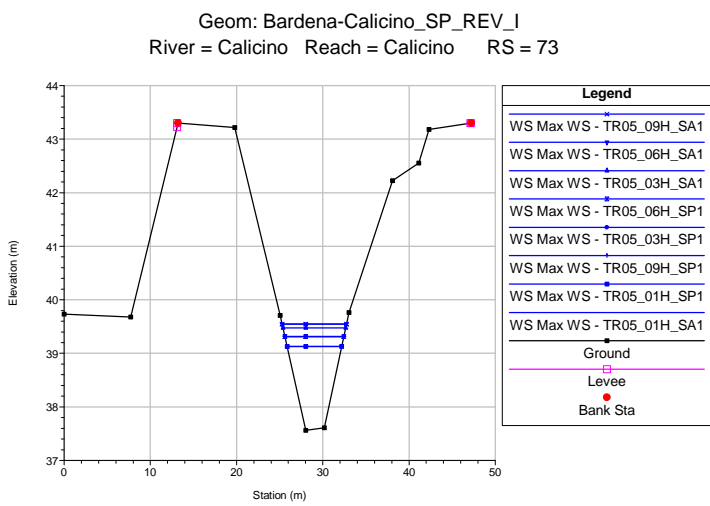
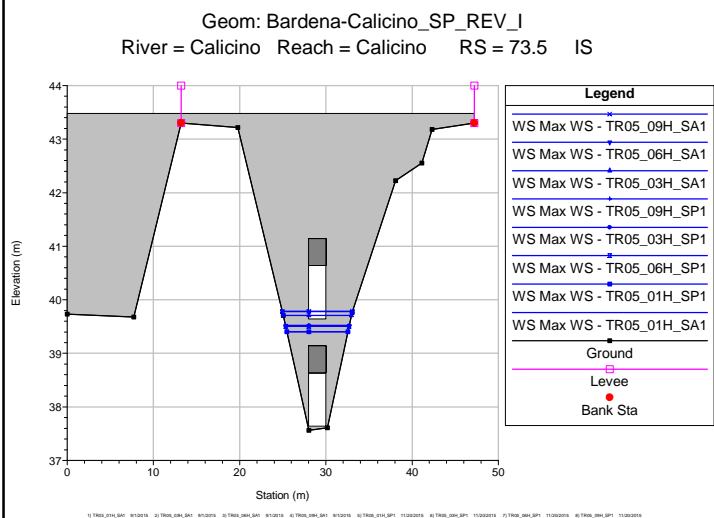
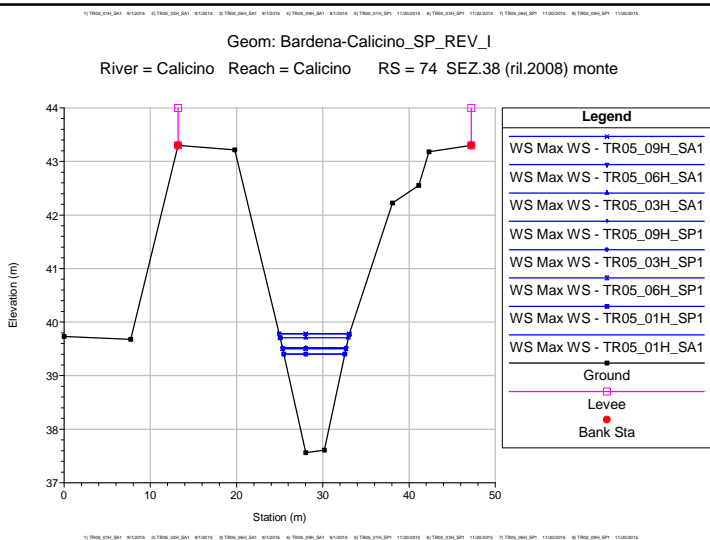
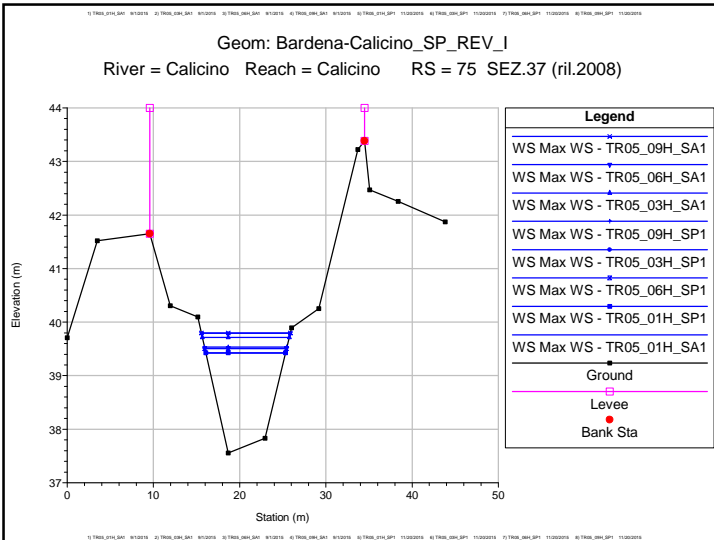


Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 75.02



Geom: Bardena-Calicino_SP_REV_I
River = Calicino Reach = Calicino RS = 75.01





Reach	River Sta	Profile	Plan	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
Calicino	100	Max WS	TR05_01H_SA1	15.60	40.29	43.08	42.17	43.18	0.003651	1.41	12.30	21.55	0.47
Calicino	100	Max WS	TR05_03H_SA1	13.53	40.29	43.05	42.03	43.13	0.003160	1.29	11.63	21.55	0.44
Calicino	100	Max WS	TR05_06H_SA1	9.03	40.29	42.95	41.68	43.00	0.001982	1.00	9.61	20.53	0.34
Calicino	100	Max WS	TR05_09H_SA1	6.81	40.29	42.74	41.48	42.78	0.001290	0.95	7.18	5.66	0.27
Calicino	100	Max WS	TR05_01H_SP1	15.60	40.29	43.08	42.17	43.18	0.003651	1.41	12.30	21.55	0.47
Calicino	100	Max WS	TR05_03H_SP1	13.53	40.29	43.05	42.03	43.13	0.003160	1.29	11.63	21.55	0.44
Calicino	100	Max WS	TR05_06H_SP1	9.03	40.29	42.95	41.68	43.00	0.001982	1.00	9.61	20.53	0.34
Calicino	100	Max WS	TR05_09H_SP1	6.81	40.29	42.74	41.48	42.78	0.001290	0.95	7.18	5.66	0.27
Calicino	99.9	Max WS	TR05_01H_SA1	15.60	40.29	43.03	42.17	43.17	0.002956	1.67	11.27	21.55	0.42
Calicino	99.9	Max WS	TR05_03H_SA1	13.53	40.29	43.01	42.03	43.12	0.002358	1.48	10.88	21.55	0.37
Calicino	99.9	Max WS	TR05_06H_SA1	9.03	40.29	42.94	41.68	43.00	0.001321	1.07	9.31	20.22	0.28
Calicino	99.9	Max WS	TR05_09H_SA1	6.81	40.29	42.73	41.48	42.78	0.001228	0.95	7.14	5.50	0.26
Calicino	99.9	Max WS	TR05_01H_SP1	15.60	40.29	43.03	42.17	43.17	0.002956	1.67	11.27	21.55	0.42
Calicino	99.9	Max WS	TR05_03H_SP1	13.53	40.29	43.01	42.03	43.12	0.002359	1.48	10.88	21.55	0.37
Calicino	99.9	Max WS	TR05_06H_SP1	9.03	40.29	42.94	41.68	43.00	0.001321	1.07	9.31	20.22	0.28
Calicino	99.9	Max WS	TR05_09H_SP1	6.81	40.29	42.73	41.48	42.78	0.001228	0.95	7.14	5.50	0.26
Calicino	99.5			Lat Struct									
Calicino	99.4			Lat Struct									
Calicino	99	Max WS	TR05_01H_SA1	10.87	40.22	43.02	41.72	43.08	0.001344	1.15	11.93	18.63	0.26
Calicino	99	Max WS	TR05_03H_SA1	10.28	40.22	42.98	41.67	43.04	0.001364	1.15	11.16	18.63	0.27
Calicino	99	Max WS	TR05_06H_SA1	8.91	40.22	42.85	41.57	42.92	0.001511	1.15	8.75	18.63	0.28
Calicino	99	Max WS	TR05_09H_SA1	6.81	40.22	42.65	41.37	42.70	0.001342	1.02	6.69	4.15	0.26
Calicino	99	Max WS	TR05_01H_SP1	10.87	40.22	43.02	41.72	43.08	0.001344	1.15	11.93	18.63	0.26
Calicino	99	Max WS	TR05_03H_SP1	10.28	40.22	42.98	41.67	43.04	0.001364	1.15	11.16	18.63	0.27
Calicino	99	Max WS	TR05_06H_SP1	8.91	40.22	42.85	41.57	42.92	0.001511	1.15	8.75	18.63	0.28
Calicino	99	Max WS	TR05_09H_SP1	6.81	40.22	42.65	41.37	42.70	0.001342	1.02	6.69	4.15	0.26
Calicino	98.5			Bridge									
Calicino	98	Max WS	TR05_01H_SA1	10.87	40.20	42.81	41.74	42.93	0.003115	1.57	7.57	14.19	0.37
Calicino	98	Max WS	TR05_03H_SA1	10.28	40.20	42.79	41.69	42.90	0.002900	1.51	7.34	14.19	0.36
Calicino	98	Max WS	TR05_06H_SA1	8.91	40.20	42.73	41.58	42.82	0.002505	1.37	6.57	6.96	0.33
Calicino	98	Max WS	TR05_09H_SA1	6.81	40.20	42.58	41.38	42.65	0.001845	1.14	5.97	3.64	0.28
Calicino	98	Max WS	TR05_01H_SP1	10.87	40.20	42.81	41.74	42.93	0.003115	1.57	7.57	14.19	0.37
Calicino	98	Max WS	TR05_03H_SP1	10.28	40.20	42.79	41.69	42.90	0.002900	1.51	7.34	14.19	0.36
Calicino	98	Max WS	TR05_06H_SP1	8.91	40.20	42.73	41.58	42.82	0.002505	1.37	6.57	6.96	0.33
Calicino	98	Max WS	TR05_09H_SP1	6.81	40.20	42.58	41.38	42.65	0.001845	1.14	5.97	3.64	0.28
Calicino	97.5			Lat Struct									
Calicino	97.4			Lat Struct									
Calicino	97	Max WS	TR05_01H_SA1	10.36	40.18	42.69	41.64	42.80	0.002803	1.49	7.13	10.82	0.37
Calicino	97	Max WS	TR05_03H_SA1	10.01	40.18	42.67	41.61	42.78	0.002719	1.46	6.93	10.42	0.36
Calicino	97	Max WS	TR05_06H_SA1	8.91	40.18	42.62	41.52	42.71	0.002348	1.34	6.64	4.05	0.33
Calicino	97	Max WS	TR05_09H_SA1	6.81	40.18	42.51	41.33	42.57	0.001638	1.10	6.20	3.93	0.28
Calicino	97	Max WS	TR05_01H_SP1	10.36	40.18	42.69	41.64	42.80	0.002803	1.49	7.13	10.82	0.37
Calicino	97	Max WS	TR05_03H_SP1	10.01	40.18	42.67	41.61	42.78	0.002719	1.46	6.93	10.42	0.36
Calicino	97	Max WS	TR05_06H_SP1	8.91	40.18	42.62	41.52	42.71	0.002348	1.34	6.64	4.05	0.33
Calicino	97	Max WS	TR05_09H_SP1	6.81	40.18	42.51	41.33	42.57	0.001638	1.10	6.20	3.93	0.28
Calicino	96.5			Bridge									
Calicino	96	Max WS	TR05_01H_SA1	10.35	40.16	42.61	41.58	42.71	0.002568	1.45	7.16	4.44	0.36
Calicino	96	Max WS	TR05_03H_SA1	10.01	40.16	42.60	41.56	42.70	0.002438	1.41	7.11	4.43	0.35
Calicino	96	Max WS	TR05_06H_SA1	8.91	40.16	42.57	41.47	42.65	0.002037	1.28	6.97	4.39	0.32
Calicino	96	Max WS	TR05_09H_SA1	6.81	40.16	42.48	41.28	42.54	0.001366	1.03	6.62	4.28	0.26
Calicino	96	Max WS	TR05_01H_SP1	10.35	40.16	42.61	41.58	42.71	0.002569	1.45	7.16	4.44	0.36
Calicino	96	Max WS	TR05_03H_SP1	10.01	40.16	42.60	41.56	42.70	0.002438	1.41	7.11	4.43	0.35
Calicino	96	Max WS	TR05_06H_SP1	8.91	40.16	42.57	41.47	42.65	0.002037	1.28	6.97	4.39	0.32
Calicino	96	Max WS	TR05_09H_SP1	6.81	40.16	42.48	41.28	42.54	0.001366	1.03	6.62	4.28	0.26
Calicino	95.5			Lat Struct									
Calicino	95.4			Lat Struct									
Calicino	95	Max WS	TR05_01H_SA1	7.37	40.10	42.35	41.29	42.39	0.001058	1.02	9.45	13.92	0.24
Calicino	95	Max WS	TR05_03H_SA1	7.32	40.10	42.34	41.29	42.38	0.001063	1.02	9.36	13.90	0.24
Calicino	95	Max WS	TR05_06H_SA1	7.11	40.10	42.32	41.27	42.36	0.001086	1.03	9.03	13.84	0.25
Calicino	95	Max WS	TR05_09H_SA1	6.53	40.10	42.24	41.21	42.29	0.001184	1.04	7.98	13.64	0.26
Calicino	95	Max WS	TR05_01H_SP1	7.37	40.10	42.35	41.29	42.39	0.001058	1.02	9.45	13.92	0.24
Calicino	95	Max WS	TR05_03H_SP1	7.32	40.10	42.34	41.28	42.38	0.001063	1.02	9.36	13.90	0.24
Calicino	95	Max WS	TR05_06H_SP1	7.11	40.10	42.32	41.27	42.36	0.001086	1.03	9.03	13.84	0.25
Calicino	95	Max WS	TR05_09H_SP1	6.53	40.10	42.24	41.21	42.29	0.001184	1.04	7.98	13.64	0.26
Calicino	94	Max WS	TR05_01H_SA1	7.30	40.03	42.29		42.35	0.001484	1.08	6.75	4.57	0.28
Calicino	94	Max WS	TR05_03H_SA1	7.25	40.03	42.29		42.35	0.001479	1.08	6.72	4.56	0.28
Calicino	94	Max WS	TR05_06H_SA1	7.06	40.03	42.26		42.32	0.001463	1.07	6.62	4.53	0.28
Calicino	94	Max WS	TR05_09H_SA1	6.52	40.03	42.19		42.25	0.001422	1.04	6.30	4.43	0.28
Calicino	94	Max WS	TR05_01H_SP1	7.30	40.03	42.29		42.35	0.001484	1.08	6.75	4.57	0.28
Calicino	94	Max WS	TR05_03H_SP1	7.25	40.03	42.29		42.35	0.001479	1.08	6.72	4.56	0.28
Calicino	94	Max WS	TR05_06H_SP1	7.06	40.03	42.26		42.32	0.001463	1.07	6.62	4.53	0.28
Calicino	94	Max WS	TR05_09H_SP1	6.52	40.03	42.19		42.25	0.001422	1.04	6.30	4.43	0.28
Calicino	93.5			Culvert									
Calicino	93	Max WS	TR05_01H_SA1	7.30	40.02	42.23	41.19	42.30	0.001916	1.17	6.26	4.26	0.31
Calicino	93	Max WS	TR05_03H_SA1	7.25	40.02	42.23	41.18	42.30	0.001908	1.16	6.23	4.25	0.31

Reach	River Sta	Profile	Plan	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
Calicino	93	Max WS	TR05_06H_SA1	7.06	40.02	42.21	41.16	42.27	0.001880	1.15	6.15	4.22	0.30
Calicino	93	Max WS	TR05_09H_SA1	6.52	40.02	42.14	41.11	42.20	0.001809	1.11	5.87	4.14	0.30
Calicino	93	Max WS	TR05_01H_SP1	7.30	40.02	42.23	41.19	42.30	0.001916	1.17	6.26	4.26	0.31
Calicino	93	Max WS	TR05_03H_SP1	7.25	40.02	42.23	41.18	42.30	0.001908	1.16	6.23	4.25	0.31
Calicino	93	Max WS	TR05_06H_SP1	7.06	40.02	42.21	41.16	42.27	0.001880	1.15	6.15	4.22	0.30
Calicino	93	Max WS	TR05_09H_SP1	6.52	40.02	42.14	41.11	42.20	0.001809	1.11	5.87	4.14	0.30
Calicino	92.5			Lat Struct									
Calicino	92.4			Lat Struct									
Calicino	92	Max WS	TR05_01H_SA1	7.30	39.93	42.06	41.10	42.13	0.001486	1.20	6.81	6.75	0.29
Calicino	92	Max WS	TR05_03H_SA1	7.25	39.93	42.06	41.09	42.13	0.001484	1.20	6.78	6.72	0.29
Calicino	92	Max WS	TR05_06H_SA1	7.06	39.93	42.04	41.08	42.11	0.001476	1.19	6.65	6.64	0.29
Calicino	92	Max WS	TR05_09H_SA1	6.52	39.93	41.98	41.02	42.04	0.001469	1.15	6.24	6.34	0.29
Calicino	92	Max WS	TR05_01H_SP1	7.30	39.93	42.06	41.10	42.13	0.001486	1.20	6.81	6.75	0.29
Calicino	92	Max WS	TR05_03H_SP1	7.25	39.93	42.06	41.09	42.13	0.001484	1.20	6.78	6.72	0.29
Calicino	92	Max WS	TR05_06H_SP1	7.06	39.93	42.04	41.08	42.11	0.001476	1.19	6.65	6.64	0.29
Calicino	92	Max WS	TR05_09H_SP1	6.52	39.93	41.98	41.03	42.04	0.001469	1.15	6.24	6.34	0.29
Calicino	91.5			Bridge									
Calicino	91	Max WS	TR05_01H_SA1	7.30	39.92	42.04	41.09	42.10	0.001422	1.14	7.81	11.41	0.28
Calicino	91	Max WS	TR05_03H_SA1	7.25	39.92	42.03	41.09	42.09	0.001422	1.14	7.75	11.34	0.28
Calicino	91	Max WS	TR05_06H_SA1	7.06	39.92	42.02	41.07	42.08	0.001425	1.13	7.55	11.09	0.28
Calicino	91	Max WS	TR05_09H_SA1	6.52	39.92	41.96	41.02	42.02	0.001429	1.11	6.96	10.31	0.28
Calicino	91	Max WS	TR05_01H_SP1	7.30	39.92	42.04	41.08	42.10	0.001422	1.14	7.81	11.41	0.28
Calicino	91	Max WS	TR05_03H_SP1	7.25	39.92	42.03	41.09	42.09	0.001422	1.14	7.75	11.34	0.28
Calicino	91	Max WS	TR05_06H_SP1	7.06	39.92	42.02	41.07	42.08	0.001425	1.13	7.55	11.09	0.28
Calicino	91	Max WS	TR05_09H_SP1	6.52	39.92	41.96	41.02	42.02	0.001429	1.11	6.96	10.31	0.28
Calicino	90.5			Lat Struct									
Calicino	90.4			Lat Struct									
Calicino	90	Max WS	TR05_01H_SA1	7.08	39.72	41.68	40.92	41.78	0.002646	1.46	5.13	4.91	0.38
Calicino	90	Max WS	TR05_03H_SA1	7.25	39.72	41.66	40.93	41.78	0.002855	1.51	5.07	4.86	0.39
Calicino	90	Max WS	TR05_06H_SA1	7.06	39.72	41.65	40.91	41.76	0.002781	1.49	5.02	4.82	0.39
Calicino	90	Max WS	TR05_09H_SA1	6.52	39.72	41.63	40.86	41.73	0.002536	1.40	4.89	4.71	0.37
Calicino	90												

Reach	River Sta	Profile	Plan	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
Calicino	86	Max WS	TR05_01H_SA1	4.34	39.35	40.49		40.57	0.003414	1.26	3.45	3.06	0.38
Calicino	86	Max WS	TR05_03H_SA1	4.33	39.35	40.49		40.57	0.003422	1.26	3.44	3.06	0.38
Calicino	86	Max WS	TR05_06H_SA1	4.33	39.35	40.50		40.58	0.003316	1.25	3.48	3.07	0.37
Calicino	86	Max WS	TR05_09H_SA1	4.31	39.35	40.50		40.58	0.003286	1.24	3.47	3.07	0.37
Calicino	86	Max WS	TR05_01H_SP1	4.34	39.35	40.49		40.57	0.003417	1.26	3.45	3.06	0.38
Calicino	86	Max WS	TR05_03H_SP1	4.31	39.35	40.49		40.57	0.003402	1.26	3.43	3.06	0.38
Calicino	86	Max WS	TR05_06H_SP1	4.34	39.35	40.48		40.56	0.003526	1.27	3.40	3.06	0.39
Calicino	86	Max WS	TR05_09H_SP1	4.30	39.35	40.47		40.56	0.003520	1.27	3.39	3.06	0.39
Calicino	85.5			Culvert									
Calicino	85	Max WS	TR05_01H_SA1	4.32	38.84	40.35	39.50	40.38	0.000941	0.77	5.58	5.24	0.24
Calicino	85	Max WS	TR05_03H_SA1	4.32	38.84	40.36	39.50	40.39	0.000898	0.76	5.67	5.28	0.23
Calicino	85	Max WS	TR05_06H_SA1	4.33	38.84	40.38	39.50	40.41	0.000857	0.75	5.78	5.32	0.23
Calicino	85	Max WS	TR05_09H_SA1	4.31	38.84	40.38	39.50	40.41	0.000847	0.74	5.78	5.32	0.23
Calicino	85	Max WS	TR05_01H_SP1	4.32	38.84	40.31	39.50	40.35	0.001021	0.80	5.41	5.18	0.25
Calicino	85	Max WS	TR05_03H_SP1	4.33	38.84	40.34	39.50	40.37	0.000961	0.78	5.54	5.23	0.24
Calicino	85	Max WS	TR05_06H_SP1	4.34	38.84	40.34	39.51	40.37	0.000955	0.78	5.56	5.24	0.24
Calicino	85	Max WS	TR05_09H_SP1	4.30	38.84	40.34	39.50	40.37	0.000952	0.78	5.54	5.23	0.24
Calicino	84.9			Lat Struct									
Calicino	84.89			Lat Struct									
Calicino	84.109			Lat Struct									
Calicino	84	Max WS	TR05_01H_SA1	4.28	38.47	40.09	39.09	40.11	0.000372	0.54	8.78	14.57	0.16
Calicino	84	Max WS	TR05_03H_SA1	4.26	38.47	40.13	39.09	40.14	0.000323	0.52	9.34	14.69	0.15
Calicino	84	Max WS	TR05_06H_SA1	4.31	38.47	40.16	39.10	40.17	0.000296	0.50	9.82	14.80	0.15
Calicino	84	Max WS	TR05_09H_SA1	4.30	38.47	40.16	39.09	40.18	0.000293	0.50	9.86	14.81	0.15
Calicino	84	Max WS	TR05_01H_SP1	4.24	38.47	40.02	39.09	40.04	0.000460	0.59	7.80	14.34	0.18
Calicino	84	Max WS	TR05_03H_SP1	4.31	38.47	40.07	39.10	40.09	0.000399	0.56	8.54	14.51	0.17
Calicino	84	Max WS	TR05_06H_SP1	4.34	38.47	40.08	39.10	40.09	0.000398	0.56	8.60	14.53	0.17
Calicino	84	Max WS	TR05_09H_SP1	4.30	38.47	40.07	39.09	40.09	0.000398	0.56	8.54	14.51	0.17
Calicino	83	Max WS	TR05_01H_SA1	4.26	38.30	40.01	38.96	40.04	0.000553	0.65	6.58	5.47	0.19
Calicino	83	Max WS	TR05_03H_SA1	4.25	38.30	40.06	38.96	40.08	0.000495	0.62	6.84	5.55	0.18
Calicino	83	Max WS	TR05_06H_SA1	4.30	38.30	40.10	38.97	40.12	0.000470	0.61	7.04	5.62	0.17
Calicino	83	Max WS	TR05_09H_SA1	4.30	38.30	40.10	38.96	40.12	0.000467	0.61	7.06	5.63	0.17
Calicino	83	Max WS	TR05_01H_SP1	4.19	38.30	39.93	38.95	39.96	0.000642	0.68	6.14	5.32	0.20
Calicino	83	Max WS	TR05_03H_SP1	4.31	38.30	39.99	38.97	40.01	0.000594	0.67	6.46	5.43	0.20
Calicino	83	Max WS	TR05_06H_SP1	4.33	38.30	40.00	38.97	40.02	0.000596	0.67	6.48	5.43	0.20
Calicino	83	Max WS	TR05_09H_SP1	4.30	38.30	39.99	38.97	40.01	0.000593	0.67	6.46	5.43	0.19
Calicino	82.7			Lat Struct									
Calicino	82.34	Max WS	TR05_01H_SA1	4.25	38.45	39.98	39.00	39.99	0.000350	0.51	8.29	7.93	0.16
Calicino	82.34	Max WS	TR05_03H_SA1	4.23	38.45	40.03	39.00	40.04	0.000309	0.49	8.71	8.21	0.15
Calicino	82.34	Max WS	TR05_06H_SA1	4.30	38.45	40.07	39.00	40.08	0.000291	0.48	9.02	8.48	0.15
Calicino	82.34	Max WS	TR05_09H_SA1	4.30	38.45	40.07	39.00	40.08	0.000288	0.48	9.05	8.52	0.15
Calicino	82.34	Max WS	TR05_01H_SP1	4.15	38.45	39.89	38.99	39.91	0.000408	0.54	7.62	7.45	0.17
Calicino	82.34	Max WS	TR05_03H_SP1	4.30	38.45	39.95	39.00	39.97	0.000381	0.53	8.09	7.79	0.17
Calicino	82.34	Max WS	TR05_06H_SP1	4.33	38.45	39.96	39.00	39.97	0.000383	0.53	8.12	7.81	0.17
Calicino	82.34	Max WS	TR05_09H_SP1	4.30	38.45	39.95	39.00	39.97	0.000381	0.53	8.09	7.79	0.17
Calicino	82.33	Max WS	TR05_01H_SA1	4.25	38.36	39.96	38.98	39.98	0.000375	0.54	7.92	7.59	0.16
Calicino	82.33	Max WS	TR05_03H_SA1	4.21	38.36	40.02	38.97	40.03	0.000319	0.51	8.34	8.49	0.15
Calicino	82.33	Max WS	TR05_06H_SA1	4.30	38.36	40.05	38.98	40.07	0.000300	0.50	8.69	9.14	0.15
Calicino	82.33	Max WS	TR05_09H_SA1	4.30	38.36	40.06	38.98	40.07	0.000297	0.50	8.72	9.20	0.15
Calicino	82.33	Max WS	TR05_01H_SP1	4.14	38.36	39.87	38.97	39.89	0.000450	0.57	7.26	7.00	0.18
Calicino	82.33	Max WS	TR05_03H_SP1	4.30	38.36	39.93	38.98	39.95	0.000414	0.56	7.72	7.20	0.17
Calicino	82.33	Max WS	TR05_06H_SP1	4.33	38.36	39.94	38.98	39.95	0.000416	0.56	7.74	7.21	0.17
Calicino	82.33	Max WS	TR05_09H_SP1	4.30	38.36	39.93	38.98	39.95	0.000415	0.56	7.71	7.20	0.17
Calicino	82.329			Lat Struct									
Calicino	82.32	Max WS	TR05_01H_SA1	4.24	38.40	39.95	39.00	39.96	0.000358	0.52	8.18	9.09	0.16
Calicino	82.32	Max WS	TR05_03H_SA1	4.20	38.40	40.01	38.99	40.02	0.000299	0.49	8.73	10.77	0.15
Calicino	82.32	Max WS	TR05_06H_SA1	4.29	38.40	40.04	39.00	40.06	0.000280	0.48	9.18	11.95	0.14
Calicino	82.32	Max WS	TR05_09H_SA1	4.30	38.40	40.05	39.00	40.06	0.000277	0.48	9.23	12.07	0.14
Calicino	82.32	Max WS	TR05_01H_SP1	4.12	38.40	39.86	38.99	39.87	0.000439	0.55	7.43	7.47	0.18
Calicino	82.32	Max WS	TR05_03H_SP1	4.30	38.40	39.92	39.00	39.94	0.000400	0.54	7.93	8.23	0.17
Calicino	82.32	Max WS	TR05_06H_SP1	4.33	38.40	39.92	39.00	39.94	0.000401	0.54	7.96	8.35	0.17
Calicino	82.32	Max WS	TR05_09H_SP1	4.30	38.40	39.92	39.00	39.94	0.000400	0.54	7.93	8.23	0.17
Calicino	82.31	Max WS	TR05_01H_SA1	4.16	38.34	39.93	39.01	39.95	0.000424	0.55	7.53	7.35	0.17
Calicino	82.31	Max WS	TR05_03H_SA1	4.03	38.34	39.99	39.00	40.01	0.000339	0.50	7.98	7.53	0.16
Calicino	82.31	Max WS	TR05_06H_SA1	4.05	38.34	40.03	39.00	40.05	0.000308	0.49	8.29	8.11	0.15
Calicino	82.31	Max WS	TR05_09H_SA1	4.05	38.34	40.04	39.01	40.05	0.000304	0.49	8.33	8.20	0.15
Calicino	82.31	Max WS	TR05_01H_SP1	4.10	38.34	39.93	39.01	39.85	0.000541	0.60	6.82	7.05	0.20
Calicino	82.31	Max WS	TR05_03H_SP1	4.30	38.34	39.90	39.02	39.92	0.000495	0.59	7.29	7.25	0.19
Calicino	82.31	Max WS	TR05_06H_SP1	4.33	38.34	39.90	39.03	39.92	0.000497	0.59	7.32	7.26	0.19
Calicino	82.31	Max WS	TR05_09H_SP1	4.30	38.34	39.90	39.02	39.92	0.000495	0.59	7.29	7.25	0.19
Calicino	82.309			Lat Struct									
Calicino	82.30	Max WS	TR05_01H_SA1	4.13	38.22	39.92	38.97	39.93	0.000431	0.55	7.45	7.33	0.18
Calicino	82.30	Max WS	TR05_03H_SA1	3.93	38.22	39.98	38.95	39.99	0.000329	0.49	7.93	7.55	0.15
Calicino	82.30	Max WS	TR05_06H_SA1	3.89	38.22	40.02	38.95	40.03	0.000286	0.47	8.28	8.30	0.14
Calicino	82.30	Max WS	TR05_09H_SA1	3.88	38.22	40.03	38.95	40.04	0.000281	0.47	8.31	8.37	0.14
Calicino	82.30	Max WS	TR05_01H_SP1	4.08	38.22	39.81	38.97	39.83	0.000560	0.61	6.70	6.99	0.20
Calicino	82.30	Max WS	TR05_03H_SP1	4.30	38.22	39.88	38.99	39.90	0.000516	0.60	7.19	7.22	0.19

Reach	River Sta	Profile	Plan	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
Calicino	82.30	Max WS	TR05_06H_SP1	4.33	38.22	39.88	38.99	39.90	0.000518	0.60	7.22	7.23	0.19
Calicino	82.30	Max WS	TR05_09H_SP1	4.30	38.22	39.88	38.99	39.90	0.000516	0.60	7.19	7.22	0.19
Calicino	82.29	Max WS	TR05_01H_SA1	4.12	38.34	39.90	38.93	39.92	0.000372	0.52	7.99	7.90	0.16
Calicino	82.29	Max WS	TR05_03H_SA1	3.91	38.34	39.97	38.91	39.98	0.000279	0.46	8.54	8.11	0.14
Calicino	82.29	Max WS	TR05_06H_SA1	3.89	38.34	40.02	38.91	40.03	0.000246	0.44	8.90	8.24	0.13
Calicino	82.29	Max WS	TR05_09H_SA1	3.88	38.34	40.02	38.91	40.03	0.000242	0.43	8.93	8.25	0.13
Calicino	82.29	Max WS	TR05_01H_SP1	4.07	38.34	39.79	38.92	39.81	0.000495	0.57	7.15	7.57	0.19
Calicino	82.29	Max WS	TR05_03H_SP1	4.30	38.34	39.86	38.94	39.88	0.000452	0.56	7.69	7.78	0.18
Calicino	82.29	Max WS	TR05_06H_SP1	4.33	38.34	39.87	38.94	39.88	0.000453	0.56	7.72	7.80	0.18
Calicino	82.29	Max WS	TR05_09H_SP1	4.30	38.34	39.86	38.94	39.88	0.000452	0.56	7.69	7.78	0.18
Calicino	82.289			Lat Struct									
Calicino	82.28	Max WS	TR05_01H_SA1	4.11	38.45	39.89	38.96	39.90	0.000393	0.53	7.72	7.49	0.17
Calicino	82.28	Max WS	TR05_03H_SA1	3.90	38.45	39.96	38.95	39.97	0.000295	0.47	8.27	7.77	0.15
Calicino	82.28	Max WS	TR05_06H_SA1	3.89	38.45	40.00	38.95	40.01	0.000261	0.45	8.63	7.94	0.14
Calicino	82.28	Max WS	TR05_09H_SA1	3.88	38.45	40.01	38.94	40.02	0.000258	0.45	8.66	7.96	0.14
Calicino	82.28	Max WS	TR05_01H_SP1	4.05	38.45	39.77	38.96	39.79	0.000523	0.59	6.87	7.16	0.19
Calicino	82.28	Max WS	TR05_03H_SP1	4.30	38.45	39.84	38.97	39.86	0.000484	0.58	7.39	7.36	0.19
Calicino	82.28	Max WS	TR05_06H_SP1	4.33	38.45	39.85	38.98	39.86	0.000486	0.58	7.42	7.37	0.19
Calicino	82.28	Max WS	TR05_09H_SP1	4.30	38.45	39.84	38.97	39.86	0.000484	0.58	7.39	7.36	0.19
Calicino	82.27	Max WS	TR05_01H_SA1	4.10	38.32	39.88	38.83	39.89	0.000246	0.45	9.13	8.18	0.14
Calicino	82.27	Max WS	TR05_03H_SA1	3.81	38.32	39.95	38.81	39.96	0.000177	0.39	9.76	8.39	0.12
Calicino	82.27	Max WS	TR05_06H_SA1	3.73	38.32	40.00	38.80	40.01	0.000152	0.37	10.16	8.52	0.11
Calicino	82.27	Max WS	TR05_09H_SA1	3.72	38.32	40.00	38.80	40.01	0.000149	0.36	10.20	8.53	0.11
Calicino	82.27	Max WS	TR05_01H_SP1	4.04	38.32	39.76	38.82	39.77	0.000325	0.49	8.18	7.85	0.15
Calicino	82.27	Max WS	TR05_03H_SP1	4.30	38.32	39.83	38.84	39.84	0.000305	0.49	8.76	8.05	0.15
Calicino	82.27	Max WS	TR05_06H_SP1	4.33	38.32	39.83	38.84	39.85	0.000306	0.49	8.79	8.06	0.15
Calicino	82.27	Max WS	TR05_09H_SP1	4.30	38.32	39.83	38.84	39.84	0.000305	0.49	8.76	8.05	0.15
Calicino	82.26	Max WS	TR05_01H_SA1	4.09	38.38	39.87	38.84	39.88	0.000240	0.44	9.21	8.11	0.13
Calicino	82.26	Max WS	TR05_03H_SA1	3.80	38.38	39.94	38.82	39.95	0.000171	0.39	9.86	8.30	0.11
Calicino	82.26	Max WS	TR05_06H_SA1	3.73	38.38	39.99	38.82	40.00	0.000147	0.36	10.26	8.41	0.10
Calicino	82.26	Max WS	TR05_09H_SA1	3.72	38.38	40.00	38.82	40.00	0.000144	0.36	10.30	8.42	0.10
Calicino	82.26	Max WS	TR05_01H_SP1	4.03	38.38	39.75	38.84	39.76	0.000318	0.49	8.25	7.83	0.15
Calicino	82.26	Max WS	TR05_03H_SP1	4.30	38.38	39.82	38.85	39.83	0.000299	0.49	8.83	8.00	0.15
Calicino	82.26	Max WS	TR05_06H_SP1	4.33	38.38	39.82	38.86	39.83	0.000301	0.49	8.85	8.01	0.15
Calicino	82.26	Max WS	TR05_09H_SP1	4.30	38.38	39.82	38.85	39.83	0.000299	0.49	8.83	8.00	0.15
Calicino	81.25	Max WS	TR05_01H_SA1	4.09	38.32	39.86	38.77	39.87	0.000099	0.30	13.42	10.93	0.09
Calicino	81.25	Max WS	TR05_03H_SA1	3.80	38.32	39.94	38.75	39.95	0.000071	0.27	14.29	11.07	0.07
Calicino	81.25	Max WS	TR05_06H_SA1	3.72	38.32	39.99	38.75	40.00	0.000061	0.25	14.83	11.16	0.07
Calicino	81.25	Max WS	TR05_09H_SA1	3.72	38.32	40.00	38.75	40.00	0.000060	0.25	14.88	11.16	0.07
Calicino	81.25	Max WS	TR05_01H_SP1	4.03	38.32	39.74	38.76	39.75	0.000131	0.33	12.09	10.71	0.10
Calicino	81.25	Max WS	TR05_03H_SP1	4.30	38.32	39.81	38.78	39.82	0.000124	0.33	12.88	10.84	0.10
Calicino	81.25	Max WS	TR05_06H_SP1	4.33	38.32	39.82	38.78	39.82	0.000125	0.34	12.92	10.85	0.10
Calicino	81.25	Max WS	TR05_09H_SP1	4.30	38.32	39.81	38.78	39.82	0.000124	0.33	12.88	10.84	0.10
Calicino	81.24	Max WS	TR05_01H_SA1	4.08	38.32	39.85	38.86	39.86	0.000294	0.47	8.66	8.33	0.15
Calicino	81.24	Max WS	TR05_03H_SA1	3.78	38.32	39.93	38.84	39.94	0.000203	0.40	9.36	8.57	0.12
Calicino	81.24	Max WS	TR05_06H_SA1	3.72	38.32	39.98	38.84	39.99	0.000174	0.38	9.80	8.71	0.11
Calicino	81.24	Max WS	TR05_09H_SA1	3.72	38.32	39.99	38.84	40.00	0.000171	0.38	9.84	8.73	0.11
Calicino	81.24	Max WS	TR05_01H_SP1	4.01	38.32	39.72	38.86	39.74	0.000407	0.53	7.62	7.96	0.17
Calicino	81.24	Max WS	TR05_03H_SP1	4.30	38.32	39.80	38.88	39.81	0.000378	0.52	8.22	8.18	0.17
Calicino	81.24	Max WS	TR05_06H_SP1	4.33	38.32	39.80	38.88	39.81	0.000379	0.52	8.25	8.19	0.17
Calicino	81.24	Max WS	TR05_09H_SP1	4.30	38.32	39.80	38.88	39.81	0.000378	0.52	8.22	8.18	0.17
Calicino	81.23	Max WS	TR05_01H_SA1	4.08	38.25	39.84	38.86	39.85	0.000289	0.46	8.85	8.73	0.15
Calicino	81.23	Max WS	TR05_03H_SA1	3.78	38.25	39.93	38.83	39.93	0.000196	0.39	9.62	9.00	0.12
Calicino	81.23	Max WS	TR05_06H_SA1	3.72	38.25	39.98	38.83	39.98	0.000167	0.37	10.09	9.16	0.11
Calicino	81.23	Max WS	TR05_09H_SA1	3.71	38.25	39.98	38.83	39.99	0.000164	0.37	10.13	9.17	0.11
Calicino	81.23	Max WS	TR05_01H_SP1	4.00	38.25	39.71	38.85	39.72	0.000409	0.52	7.72	8.32	0.17
Calicino	81.23	Max WS	TR05_03H_SP1	4.30	38.25	39.78	38.88	39.80	0.000378	0.51	8.36	8.55	0.17
Calicino	81.23	Max WS	TR05_06H_SP1	4.33	38.25	39.79	38.88	39.80	0.000380	0.52	8.39	8.56	0.17
Calicino	81.23	Max WS	TR05_09H_SP1	4.30	38.25	39.78	38.88	39.80	0.000378	0.51	8.36	8.55	0.17
Calicino	81.22	Max WS	TR05_01H_SA1	4.07	38.14	39.82	38.77	39.84	0.000365	0.53	7.60	6.47	0.16
Calicino	81.22	Max WS	TR05_03H_SA1	3.76	38.14	39.91	38.75	39.93	0.000253	0.46	8.21	6.64	0.13
Calicino	81.22	Max WS	TR05_06H_SA1	3.72	38.14	39.97	38.74	39.98	0.000221	0.43	8.56	6.74	0.12
Calicino	81.22	Max WS	TR05_09H_SA1	3.72	38.14	39.97	38.74	39.98	0.000218	0.43	8.59	6.75	0.12
Calicino	81.22	Max WS	TR05_01H_SP1	3.99	38.14	39.68	38.76	39.70	0.000490	0.59	6.73	6.21	0.18
Calicino	81.22	Max WS	TR05_03H_SP1	4.30	38.14	39.76	38.79	39.78	0.000472	0.60	7.21	6.35	0.18
Calicino	81.22	Max WS	TR05_06H_SP1	4.33	38.14	39.76	38.79	39.78	0.000474	0.60	7.23	6.36	0.18
Calicino	81.22	Max WS	TR05_09H_SP1	4.30	38.14	39.76	38.79	39.78	0.000472	0.60	7.21	6.35	0.18
Calicino	81.21	Max WS	TR05_01H_SA1	4.06	38.03	39.81	38.59	39.82	0.000201	0.41	9.81	8.35	0.12
Calicino	81.21	Max WS	TR05_03H_SA1	3.75	38.03	39.91	38.56	39.91	0.000137	0.35	10.64	8.66	0.10
Calicino	81.21	Max WS	TR05_06H_SA1	3.72	38.03	39.96	38.56	39.96	0.000120	0.33	11.11	8.83	0.10
Calicino	81.21	Max WS	TR05_09H_SA1	3.71	38.03	39.96	38.56	39.97	0.000118	0.33	11.15	8.85	0.09
Calicino	81.21	Max WS	TR05_01H_SP1	3.99	38.03	39.67	38.58	39.68	0.000271	0.46	8.65	7.89	0.14
Calicino	81.21	Max WS	TR05_03H_SP1	4.30	38.03	39.74	38.61	39.75	0.000262	0.46	9.27	8.14	0.14
Calicino	81.21	Max WS	TR05_06H_SP1	4.33	38.03	39.75	38.61	39.76	0.000264	0.47	9.29	8.15	0.14
Calicino	81.21	Max WS	TR05_09H_SP1	4.30	38.03	39.74	38.61	39.75	0.000262	0.46	9.27	8.14	0.14
Calicino	80.5			Bridge									
Calicino	80.20	Max WS	TR05_01H_SA1	4.03	38.08	39.74	38.70	39.76	0.000378	0.51	7.83	7.80	0.16
Calicino	80.20	Max WS	TR05_03H_SA1	3.66	38.08	39.85	38.66	39.86	0.000235	0.42	8.72	8.25	0.13
Calicino	80.20	Max WS	TR05_06H_SA1	3.71	38.08	39.91	38.67	39.92	0.000145	0.34	13.81	23.43	0.10
Calicino	80.20	Max WS	TR05_09H_SA1	3.71	38.08	39.92	38.67	39.92	0.000142	0.33	13.94	23.44	0.10

Reach	River Sta	Profile	Plan	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
Calicino	80.20	Max WS	TR05_01H_SP1	3.95	38.08	39.60	38.69	39.62	0.000541	0.59	6.74	7.22	0.19
Calicino	80.20	Max WS	TR05_03H_SP1	4.30	38.08	39.67	38.72	39.69	0.000530	0.59	7.24	7.49	0.19
Calicino	80.20	Max WS	TR05_06H_SP1	4.33	38.08	39.67	38.72	39.69	0.000533	0.60	7.26	7.50	0.19
Calicino	80.20	Max WS	TR05_09H_SP1	4.29	38.08	39.67	38.72	39.69	0.000528	0.59	7.24	7.49	0.19
Calicino	80	Max WS	TR05_01H_SA1	3.95	38.62	39.63	39.15	39.67	0.001632	0.89	4.46	6.04	0.33
Calicino	80	Max WS	TR05_03H_SA1	3.58	38.62	39.80	39.12	39.82	0.000738	0.65	5.54	6.59	0.23
Calicino	80	Max WS	TR05_06H_SA1	3.70	38.62	39.86	39.13	39.88	0.000636	0.62	5.98	6.80	0.21
Calicino	80	Max WS	TR05_09H_SA1	3.71	38.62	39.87	39.13	39.89	0.000628	0.62	6.02	6.82	0.21
Calicino	79.9			Lat Struct									
Calicino	79.89			Lat Struct									
Calicino	79.19	Max WS	TR05_01H_SA1	3.92	38.00	39.57	38.53	39.57	0.000320	0.37	10.64	16.50	0.15
Calicino	79.19	Max WS	TR05_03H_SA1	3.56	38.00	39.78	38.50	39.78	0.000107	0.25	14.12	16.98	0.09
Calicino	79.19	Max WS	TR05_06H_SA1	3.69	38.00	39.85	38.51	39.85	0.000089	0.24	15.31	17.14	0.08
Calicino	79.19	Max WS	TR05_09H_SA1	3.71	38.00	39.85	38.51	39.85	0.000088	0.24	15.41	17.16	0.08
Calicino	79.19	Max WS	TR05_01H_SP1	3.93	38.00	39.57	38.53	39.58	0.000319	0.37	10.67	16.50	0.15
Calicino	79.19	Max WS	TR05_03H_SP1	4.29	38.00	39.64	38.56	39.65	0.000271	0.36	11.86	16.67	0.14
Calicino	79.19	Max WS	TR05_06H_SP1	4.32	38.00	39.64	38.56	39.65	0.000272	0.37	11.89	16.67	0.14
Calicino	79.19	Max WS	TR05_09H_SP1	4.30	38.00	39.64	38.56	39.65	0.000272	0.36	11.86	16.67	0.14
Calicino	79.18	Max WS	TR05_01H_SA1	3.92	38.02	39.55	38.52	39.56	0.000285	0.49	8.96	11.15	0.14
Calicino	79.18	Max WS	TR05_03H_SA1	3.55	38.02	39.77	38.49	39.78	0.000125	0.36	11.44	11.70	0.10
Calicino	79.18	Max WS	TR05_06H_SA1	3.69	38.02	39.84	38.50	39.84	0.000112	0.35	12.27	11.92	0.09
Calicino	79.18	Max WS	TR05_09H_SA1	3.71	38.02	39.85	38.50	39.85	0.000111	0.35	12.34	11.94	0.09
Calicino	79.18	Max WS	TR05_01H_SP1	3.93	38.02	39.55	38.52	39.57	0.000284	0.49	8.99	11.15	0.14
Calicino	79.18	Max WS	TR05_03H_SP1	4.29	38.02	39.63	38.55	39.64	0.000275	0.50	9.80	11.31	0.14
Calicino	79.18	Max WS	TR05_06H_SP1	4.32	38.02	39.63	38.55	39.64	0.000278	0.50	9.81	11.31	0.14
Calicino	79.18	Max WS	TR05_09H_SP1	4.28	38.02	39.63	38.54	39.64	0.000274	0.50	9.80	11.31	0.14
Calicino	78.17	Max WS	TR05_01H_SA1	3.92	38.14	39.54	38.65	39.55	0.000325	0.50	9.57	15.24	0.15
Calicino	78.17	Max WS	TR05_03H_SA1	3.55	38.14	39.77	38.62	39.77	0.000119	0.33	13.09	15.89	0.09
Calicino	78.17	Max WS	TR05_06H_SA1	3.69	38.14	39.84	38.64	39.84	0.000103	0.31	14.22	16.10	0.09
Calicino	78.17	Max WS	TR05_09H_SA1	3.71	38.14	39.84	38.64	39.85	0.000101	0.31	14.32	16.12	0.09
Calicino	78.17	Max WS	TR05_01H_SP1	3.92	38.14	39.54	38.65	39.55	0.000323	0.50	9.61	15.24	0.15
Calicino	78.17	Max WS	TR05_03H_SP1	4.29	38.14	39.62	38.68	39.63	0.000292	0.49	10.74	15.46	0.15
Calicino	78.17	Max WS	TR05_06H_SP1	4.32	38.14	39.62	38.69	39.63	0.000295	0.49	10.76	15.46	0.15
Calicino	78.17	Max WS	TR05_09H_SP1	4.28	38.14	39.62	38.68	39.63	0.000291	0.48	10.74	15.46	0.15
Calicino	78.16	Max WS	TR05_01H_SA1	3.91	38.13	39.53	38.68	39.54	0.000360	0.52	8.69	12.40	0.16
Calicino	78.16	Max WS	TR05_03H_SA1	3.54	38.13	39.76	38.64	39.77	0.000130	0.36	11.68	13.13	0.10
Calicino	78.16	Max WS	TR05_06H_SA1	3.69	38.13	39.83	38.66	39.84	0.000114	0.35	12.62	13.35	0.09
Calicino	78.16	Max WS	TR05_09H_SA1	3.71	38.13	39.84	38.66	39.84	0.000113	0.35	12.71	13.37	0.09
Calicino	78.16	Max WS	TR05_01H_SP1	3.92	38.13	39.53	38.68	39.54	0.000359	0.52	8.72	12.41	0.16
Calicino	78.16	Max WS	TR05_03H_SP1	4.28	38.13	39.60	38.71	39.62	0.000323	0.52	9.66	12.64	0.15
Calicino	78.16	Max WS	TR05_06H_SP1	4.32	38.13	39.60	38.71	39.62	0.000327	0.52	9.67	12.65	0.15
Calicino	78.16	Max WS	TR05_09H_SP1	4.28	38.13	39.60	38.71	39.62	0.000322	0.52	9.66	12.64	0.15
Calicino	77	Max WS	TR05_01H_SA1	3.91	37.88	39.52	38.42	39.53	0.000239	0.44	9.83	11.55	0.13
Calicino	77	Max WS	TR05_03H_SA1	3.54	37.88	39.76	38.39	39.76	0.000100	0.32	12.65	12.19	0.08
Calicino	77	Max WS	TR05_06H_SA1	3.69	37.88	39.83	38.40	39.83	0.000091	0.31	13.53	12.38	0.08
Calicino	77	Max WS	TR05_09H_SA1	3.71	37.88	39.84	38.40	39.84	0.000090	0.31	13.61	12.40	0.08
Calicino	77	Max WS	TR05_01H_SP1	3.92	37.88	39.52	38.42	39.53	0.000238	0.44	9.86	11.56	0.13
Calicino	77	Max WS	TR05_03H_SP1	4.28	37.88	39.60	38.45	39.61	0.000227	0.45	10.73	11.76	0.13
Calicino	77	Max WS	TR05_06H_SP1	4.31	37.88	39.60	38.45	39.61	0.000230	0.45	10.75	11.76	0.13
Calicino	77	Max WS	TR05_09H_SP1	4.27	37.88	39.60	38.45	39.61	0.000226	0.45	10.73	11.76	0.13
Calicino	76.99			Lat Struct									
Calicino	76.98			Lat Struct									
Calicino	76.55			Lat Struct									
Calicino	76.15	Max WS	TR05_01H_SA1	3.91	37.88	39.52	38.42	39.53	0.000224	0.49	9.58	11.04	0.13
Calicino	76.15	Max WS	TR05_03H_SA1	3.54	37.88	39.76	38.39	39.76	0.000097	0.35	12.29	11.69	0.09
Calicino	76.15	Max WS	TR05_06H_SA1	3.69	37.88	39.83	38.40	39.83	0.000088	0.35	13.14	11.88	0.08
Calicino	76.15	Max WS	TR05_09H_SA1	3.71	37.88	39.83	38.41	39.84	0.000088	0.35	13.21	11.90	0.08
Calicino	76.15	Max WS	TR05_01H_SP1	3.92	37.88	39.52	38.42	39.53	0.000223	0.49	9.61	11.05	0.13
Calicino	76.15	Max WS	TR05_03H_SP1	4.28	37.88	39.59	38.45	39.61	0.000216	0.49	10.44	11.25	0.13
Calicino	76.15	Max WS	TR05_06H_SP1	4.31	37.88	39.60	38.45	39.61	0.000218	0.50	10.45	11.26	0.13
Calicino	76.15	Max WS	TR05_09H_SP1	4.27	37.88	39.59	38.45	39.61	0.000215	0.49	10.44	11.25	0.13
Calicino	76.14	Max WS	TR05_01H_SA1	3.91	37.81	39.51	38.42	39.52	0.000238	0.49	8.52	8.18	0.14
Calicino	76.14	Max WS	TR05_03H_SA1	3.54	37.81	39.75	38.39	39.76	0.000106	0.37	10.61	8.97	0.09
Calicino	76.14	Max WS	TR05_06H_SA1	3.69	37.81	39.82	38.41	39.83	0.000099	0.36	11.27	9.20	0.09
Calicino	76.14	Max WS	TR05_09H_SA1	3.71	37.81	39.83	38.41	39.84	0.000098	0.36	11.32	9.22	0.09
Calicino	76.14	Max WS	TR05_01H_SP1	3.92	37.81	39.51	38.43	39.52	0.000237	0.49	8.55	8.19	0.13
Calicino	76.14	Max WS	TR05_03H_SP1	4.27	37.81	39.58	38.45	39.60	0.000232	0.50	9.17	8.43	0.13
Calicino	76.14	Max WS	TR05_06H_SP1	4.31	37.81	39.59	38.46	39.60	0.000235	0.51	9.18	8.44	0.14
Calicino	76.14	Max WS	TR05_09H_SP1	3.79	37.81	39.59	38.41	39.60	0.000182	0.45	9.18	8.44	0.12
Calicino	76.13	Max WS	TR05_01H_SA1	3.91	37.87	39.50	38.45	39.51	0.000228	0.46	9.73	11.42	0.13
Calicino	76.13	Max WS	TR05_03H_SA1	3.54	37.87	39.75	38.42	39.76	0.000092	0.33	12.63	12.14	0.09
Calicino	76.13	Max WS	TR05_06H_SA1	3.69	37.87	39.82	38.43	39.83	0.000083	0.32	13.51	12.35	0.08
Calicino	76.13	Max WS	TR05_09H_SA1	3.71	37.87	39.83	38.44	39.83	0.000083	0.32	13.59	12.37	0.08
Calicino	76.13	Max WS	TR05_01H_SP1	3.92	37.87	39.51	38.45	39.52	0.000228	0.46	9.76	11.42	0.13
Calicino	76.13	Max WS	TR05_03H_SP1	4.27	37.87	39.58	38.49	39.59	0.000215	0.46	10.63	11.64	0.13
Calicino	76.13	Max WS	TR05_06H_SP1	4.31	37.87	39.58	38.49	39.59	0.000218	0.47	10.64	11.65	0.13
Calicino	76.13	Max WS	TR05_09H_SP1	3.78	37.87	39.58	38.44	39.59	0.000167	0.41	10.66	11.65	0.11

Reach	River Sta	Profile	Plan	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
Calicino	76.12	Max WS	TR05_01H_SA1	3.91	37.79	39.50	38.35	39.51	0.000226	0.45	10.05	11.51	0.13
Calicino	76.12	Max WS	TR05_03H_SA1	3.54	37.79	39.75	38.31	39.75	0.000092	0.32	13.03	12.20	0.08
Calicino	76.12	Max WS	TR05_06H_SA1	3.69	37.79	39.82	38.33	39.82	0.000084	0.32	13.92	12.42	0.08
Calicino	76.12	Max WS	TR05_09H_SA1	3.71	37.79	39.83	38.33	39.83	0.000083	0.32	14.00	12.44	0.08
Calicino	76.12	Max WS	TR05_01H_SP1	3.92	37.79	39.50	38.35	39.51	0.000226	0.45	10.09	11.51	0.13
Calicino	76.12	Max WS	TR05_03H_SP1	4.26	37.79	39.57	38.38	39.58	0.000216	0.46	10.96	11.69	0.12
Calicino	76.12	Max WS	TR05_06H_SP1	4.30	37.79	39.58	38.38	39.59	0.000219	0.46	10.98	11.69	0.12
Calicino	76.12	Max WS	TR05_09H_SP1	3.76	37.79	39.58	38.33	39.59	0.000166	0.40	11.02	11.70	0.11
Calicino	76.11	Max WS	TR05_01H_SA1	3.91	37.70	39.49	38.37	39.50	0.000251	0.47	9.55	10.72	0.13
Calicino	76.11	Max WS	TR05_03H_SA1	3.53	37.70	39.74	38.34	39.75	0.000103	0.33	12.39	11.44	0.09
Calicino	76.11	Max WS	TR05_06H_SA1	3.69	37.70	39.82	38.35	39.82	0.000094	0.32	13.22	11.65	0.08
Calicino	76.11	Max WS	TR05_09H_SA1	3.71	37.70	39.82	38.35	39.83	0.000094	0.32	13.30	11.66	0.08
Calicino	76.11	Max WS	TR05_01H_SP1	3.92	37.70	39.49	38.37	39.50	0.000250	0.47	9.58	10.72	0.13
Calicino	76.11	Max WS	TR05_03H_SP1	4.26	37.70	39.57	38.40	39.58	0.000238	0.47	10.40	10.94	0.13
Calicino	76.11	Max WS	TR05_06H_SP1	4.28	37.70	39.57	38.41	39.58	0.000240	0.47	10.42	10.94	0.13
Calicino	76.11	Max WS	TR05_09H_SP1	3.74	37.70	39.57	38.36	39.58	0.000180	0.41	10.47	10.96	0.11
Calicino	76.10	Max WS	TR05_01H_SA1	3.91	37.52	39.49	38.16	39.49	0.000141	0.39	10.67	9.34	0.10
Calicino	76.10	Max WS	TR05_03H_SA1	3.53	37.52	39.74	38.13	39.75	0.000063	0.29	13.18	10.15	0.07
Calicino	76.10	Max WS	TR05_06H_SA1	3.69	37.52	39.82	38.14	39.82	0.000059	0.29	13.92	10.37	0.07
Calicino	76.10	Max WS	TR05_09H_SA1	3.71	37.52	39.82	38.15	39.83	0.000059	0.29	13.98	10.39	0.07
Calicino	76.10	Max WS	TR05_01H_SP1	3.92	37.52	39.49	38.16	39.50	0.000140	0.39	10.69	9.35	0.10
Calicino	76.10	Max WS	TR05_03H_SP1	4.25	37.52	39.56	38.19	39.57	0.000137	0.40	11.41	9.59	0.10
Calicino	76.10	Max WS	TR05_06H_SP1	4.28	37.52	39.57	38.19	39.57	0.000138	0.40	11.42	9.59	0.10
Calicino	76.10	Max WS	TR05_09H_SP1	3.72	37.52	39.57	38.15	39.58	0.000103	0.35	11.48	9.61	0.09
Calicino	76.09	Max WS	TR05_01H_SA1	3.91	37.74	39.48	38.35	39.49	0.000148	0.39	12.08	13.87	0.11
Calicino	76.09	Max WS	TR05_03H_SA1	3.53	37.74	39.74	38.32	39.75	0.000058	0.27	15.79	14.72	0.07
Calicino	76.09	Max WS	TR05_06H_SA1	3.69	37.74	39.81	38.33	39.82	0.000052	0.27	16.86	14.96	0.07
Calicino	76.09	Max WS	TR05_09H_SA1	3.71	37.74	39.82	38.33	39.82	0.000052	0.27	16.96	15.19	0.07
Calicino	76.09	Max WS	TR05_01H_SP1	3.92	37.74	39.49	38.35	39.49	0.000147	0.39	12.12	13.88	0.11
Calicino	76.09	Max WS	TR05_03H_SP1	4.24	37.74	39.56	38.38	39.57	0.000137	0.39	13.19	14.13	0.11
Calicino	76.09	Max WS	TR05_06H_SP1	4.27	37.74	39.56	38.38	39.57	0.000138	0.39	13.20	14.13	0.11
Calicino	76.09	Max WS	TR05_09H_SP1	3.71	37.74	39.57	38.33	39.57	0.000102	0.34	13.30	14.15	0.09
Calicino	76.08	Max WS	TR05_01H_SA1	3.91	37.79	39.48	38.29	39.48	0.000150	0.41	11.74	12.78	0.11
Calicino	76.08	Max WS	TR05_03H_SA1	3.53	37.79	39.74	38.26	39.74	0.000061	0.29	15.22	13.62	0.07
Calicino	76.08	Max WS	TR05_06H_SA1	3.69	37.79	39.81	38.28	39.82	0.000056	0.29	16.22	13.85	0.07
Calicino	76.08	Max WS	TR05_09H_SA1	3.71	37.79	39.82	38.28	39.82	0.000056	0.29	16.31	13.87	0.07
Calicino	76.08	Max WS	TR05_01H_SP1	3.92	37.79	39.48	38.30	39.49	0.000149	0.41	11.77	12.78	0.11
Calicino	76.08	Max WS	TR05_03H_SP1	4.22	37.79	39.56	38.32	39.56	0.000140	0.41	12.77	13.03	0.11
Calicino	76.08	Max WS	TR05_06H_SP1	4.25	37.79	39.56	38.32	39.56	0.000141	0.41	12.78	13.03	0.11
Calicino	76.08	Max WS	TR05_09H_SP1	3.68	37.79	39.56	38.28	39.57	0.000103	0.36	12.89	13.06	0.09
Calicino	76.07	Max WS	TR05_01H_SA1	3.91	37.74	39.47	38.22	39.48	0.000126	0.38	11.72	11.40	0.10
Calicino	76.07	Max WS	TR05_03H_SA1	3.53	37.74	39.74	38.19	39.74	0.000054	0.28	14.88	12.27	0.07
Calicino	76.07	Max WS	TR05_06H_SA1	3.69	37.74	39.81	38.20	39.81	0.000050	0.27	15.78	12.51	0.07
Calicino	76.07	Max WS	TR05_09H_SA1	3.71	37.74	39.82	38.20	39.82	0.000050	0.27	15.86	12.53	0.07
Calicino	76.07	Max WS	TR05_01H_SP1	3.92	37.74	39.47	38.22	39.48	0.000126	0.38	11.75	11.41	0.10
Calicino	76.07	Max WS	TR05_03H_SP1	4.22	37.74	39.55	38.24	39.56	0.000119	0.38	12.65	11.66	0.10
Calicino	76.07	Max WS	TR05_06H_SP1	4.25	37.74	39.55	38.24	39.56	0.000121	0.38	12.66	11.67	0.10
Calicino	76.07	Max WS	TR05_09H_SP1	3.65	37.74	39.56	38.20	39.57	0.000087	0.33	12.77	11.70	0.08
Calicino	76.06	Max WS	TR05_01H_SA1	3.91	37.55	39.46	38.29	39.47	0.000232	0.46	9.16	8.69	0.13
Calicino	76.06	Max WS	TR05_03H_SA1	3.53	37.55	39.73	38.26	39.74	0.000100	0.33	11.63	9.52	0.09
Calicino	76.06	Max WS	TR05_06H_SA1	3.69	37.55	39.81	38.27	39.81	0.000093	0.33	12.33	9.74	0.09
Calicino	76.06	Max WS	TR05_09H_SA1	3.71	37.55	39.81	38.27	39.82	0.000093	0.33	12.39	9.76	0.09
Calicino	76.06	Max WS	TR05_01H_SP1	3.92	37.55	39.46	38.29	39.48	0.000232	0.46	9.18	8.70	0.13
Calicino	76.06	Max WS	TR05_03H_SP1	4.21	37.55	39.54	38.32	39.55	0.000220	0.46	9.87	8.94	0.13
Calicino	76.06	Max WS	TR05_06H_SP1	4.24	37.55	39.54	38.32	39.55	0.000223	0.46	9.88	8.94	0.13
Calicino	76.06	Max WS	TR05_09H_SP1	3.61	37.55	39.56	38.26	39.56	0.000158	0.39	9.99	8.98	0.11
Calicino	76.05	Max WS	TR05_01H_SA1	3.91	37.53	39.46	38.09	39.47	0.000139	0.42	10.53	9.25	0.11
Calicino	76.05	Max WS	TR05_03H_SA1	3.53	37.53	39.73	38.05	39.74	0.000063	0.31	13.18	10.20	0.07
Calicino	76.05	Max WS	TR05_06H_SA1	3.69	37.53	39.81	38.06	39.81	0.000060	0.31	13.94	11.18	0.07
Calicino	76.05	Max WS	TR05_09H_SA1	3.71	37.53	39.81	38.07	39.82	0.000060	0.31	14.01	11.43	0.07
Calicino	76.05	Max WS	TR05_01H_SP1	3.92	37.53	39.46	38.09	39.47	0.000139	0.42	10.55	9.26	0.11
Calicino	76.05	Max WS	TR05_03H_SP1	4.19	37.53	39.54	38.11	39.55	0.000133	0.42	11.29	9.53	0.10
Calicino	76.05	Max WS	TR05_06H_SP1	4.23	37.53	39.54	38.11	39.55	0.000135	0.43	11.30	9.54	0.10
Calicino	76.05	Max WS	TR05_09H_SP1	3.60	37.53	39.55	38.06	39.56	0.000095	0.36	11.42	9.58	0.09
Calicino	76	Max WS	TR05_01H_SA1	3.91	37.91	39.45	38.56	39.47	0.000513	0.58	6.69	6.96	0.19
Calicino	76	Max WS	TR05_03H_SA1	3.53	37.91	39.73	38.52	39.74	0.000203	0.40	8.76	7.91	0.12
Calicino	76	Max WS	TR05_06H_SA1	3.69	37.91	39.80	38.54	39.81	0.000186	0.39	9.35	8.15	0.12
Calicino	76	Max WS	TR05_09H_SA1	3.71	37.91	39.81	38.54	39.82	0.000185	0.39	9.41	8.18	0.12
Calicino	76	Max WS	TR05_01H_SP1	3.92	37.91	39.45	38.56	39.47	0.000512	0.58	6.71	6.97	0.19
Calicino	76	Max WS	TR05_03H_SP1	4.19	37.91	39.53	38.58	39.55	0.000472	0.58	7.27	7.24	0.18
Calicino	76	Max WS	TR05_06H_SP1	4.23	37.91	39.53	38.59	39.55	0.000480	0.58	7.28	7.24	0.19
Calicino	76	Max WS	TR05_09H_SP1	3.57	37.91	39.55	38.53	39.56	0.000327	0.48	7.39	7.29	0.15
Calicino	75.99			Lat Struct									
Calicino	75.04	Max WS	TR05_01H_SA1	3.91	37.51	39.44	38.19	39.45	0.000156	0.44	9.99	8.94	0.11
Calicino	75.04	Max WS	TR05_03H_SA1	3.53	37.51	39.73	38.15	39.73	0.000068	0.33	12.64	9.94	0.08
Calicino	75.04	Max WS	TR05_06H_SA1	3.69	37.51	39.80	38.17	39.80	0.000064	0.33	13.38	10.20	0.07
Calicino	75.04	Max WS	TR05_09H_SA1	3.71	37.51	39.81	38.17	39.81	0.000064	0.33	13.45	10.22	0.07
Calicino	75.04	Max WS	TR05_01H_SP1	3.92	37.51	39.45	38.19	39.46	0.000155	0.44	10.01	8.95	0.11
Calicino	75.04	Max WS	TR05_03H_SP1	4.18	37.51	39.53	38.21	39.54	0.000147	0.45	10.74	9.24	0.11
Calicino	75.04	Max WS	TR05_06H_SP1	4.21	37.51	39.53	38.21	39.54	0.000149	0.45	10.74	9.24	0.11
Calicino	75.04	Max WS	TR05_09H_SP1	3.53	37.51	39.54	38.16	39.55	0.000101	0.37	10.90	9.30	0.09

Reach	River Sta	Profile	Plan	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
Calicino	75.03	Max WS	TR05_01H_SA1	3.91	37.26	39.44	38.13	39.45	0.000138	0.42	10.16	8.56	0.11
Calicino	75.03	Max WS	TR05_03H_SA1	3.53	37.26	39.72	38.10	39.73	0.000061	0.31	12.73	9.49	0.07
Calicino	75.03	Max WS	TR05_06H_SA1	3.69	37.26	39.80	38.11	39.80	0.000058	0.31	13.43	9.73	0.07
Calicino	75.03	Max WS	TR05_09H_SA1	3.71	37.26	39.80	38.11	39.81	0.000058	0.31	13.49	9.75	0.07
Calicino	75.03	Max WS	TR05_01H_SP1	3.91	37.26	39.44	38.13	39.45	0.000138	0.42	10.18	8.57	0.11
Calicino	75.03	Max WS	TR05_03H_SP1	4.13	37.26	39.52	38.15	39.53	0.000128	0.42	10.88	8.83	0.10
Calicino	75.03	Max WS	TR05_06H_SP1	4.17	37.26	39.52	38.15	39.53	0.000130	0.42	10.88	8.83	0.11
Calicino	75.03	Max WS	TR05_09H_SP1	3.51	37.26	39.54	38.10	39.55	0.000088	0.35	11.05	8.90	0.09
Calicino	75.02	Max WS	TR05_01H_SA1	3.90	37.22	39.43	38.06	39.44	0.000179	0.50	9.26	7.63	0.12
Calicino	75.02	Max WS	TR05_03H_SA1	3.53	37.22	39.72	38.02	39.73	0.000082	0.37	11.56	8.32	0.08
Calicino	75.02	Max WS	TR05_06H_SA1	3.69	37.22	39.79	38.03	39.80	0.000078	0.37	12.18	8.49	0.08
Calicino	75.02	Max WS	TR05_09H_SA1	3.71	37.22	39.80	38.04	39.81	0.000078	0.37	12.23	8.51	0.08
Calicino	75.02	Max WS	TR05_01H_SP1	3.91	37.22	39.43	38.06	39.45	0.000179	0.50	9.28	7.63	0.12
Calicino	75.02	Max WS	TR05_03H_SP1	4.11	37.22	39.52	38.08	39.53	0.000166	0.49	9.91	7.83	0.11
Calicino	75.02	Max WS	TR05_06H_SP1	4.16	37.22	39.52	38.08	39.53	0.000171	0.50	9.91	7.83	0.12
Calicino	75.02	Max WS	TR05_09H_SP1	3.43	37.22	39.54	38.01	39.54	0.000111	0.41	10.08	7.88	0.09
Calicino	75.01	Max WS	TR05_01H_SA1	3.90	37.39	39.43	37.95	39.44	0.000103	0.34	11.64	8.48	0.09
Calicino	75.01	Max WS	TR05_03H_SA1	3.53	37.39	39.72	37.92	39.72	0.000049	0.25	14.20	9.26	0.06
Calicino	75.01	Max WS	TR05_06H_SA1	3.69	37.39	39.79	37.94	39.80	0.000047	0.25	14.89	9.47	0.06
Calicino	75.01	Max WS	TR05_09H_SA1	3.71	37.39	39.80	37.94	39.80	0.000047	0.25	14.96	9.48	0.06
Calicino	75.01	Max WS	TR05_01H_SP1	3.91	37.39	39.43	37.95	39.44	0.000103	0.34	11.66	8.48	0.09
Calicino	75.01	Max WS	TR05_03H_SP1	4.08	37.39	39.52	37.96	39.52	0.000095	0.33	12.38	8.71	0.09
Calicino	75.01	Max WS	TR05_06H_SP1	4.14	37.39	39.52	37.97	39.52	0.000098	0.34	12.37	8.71	0.09
Calicino	75.01	Max WS	TR05_09H_SP1	3.46	37.39	39.54	37.92	39.54	0.000066	0.28	12.55	8.77	0.07
Calicino	75	Max WS	TR05_01H_SA1	3.90	37.56	39.42	38.11	39.43	0.000115	0.33	11.69	9.23	0.09
Calicino	75	Max WS	TR05_03H_SA1	3.53	37.56	39.72	38.08	39.72	0.000052	0.24	14.53	10.08	0.06
Calicino	75	Max WS	TR05_06H_SA1	3.69	37.56	39.79	38.09	39.79	0.000049	0.24	15.28	10.29	0.06
Calicino	75	Max WS	TR05_09H_SA1	3.71	37.56	39.80	38.09	39.80	0.000050	0.24	15.34	10.31	0.06
Calicino	75	Max WS	TR05_01H_SP1	3.90	37.56	39.42	38.11	39.43	0.000115	0.33	11.71	9.24	0.09
Calicino	75	Max WS	TR05_03H_SP1	3.81	37.56	39.51	38.10	39.51	0.000092	0.31	12.50	9.48	0.08
Calicino	75	Max WS	TR05_06H_SP1	4.02	37.56	39.51	38.12	39.51	0.000102	0.32	12.48	9.47	0.09
Calicino	75	Max WS	TR05_09H_SP1	3.44	37.56	39.53	38.08	39.54	0.000071	0.27	12.72	9.55	0.07
Calicino	74	Max WS	TR05_01H_SA1	3.88	37.56	39.40	38.19	39.41	0.000257	0.46	8.39	7.07	0.14
Calicino	74	Max WS	TR05_03H_SA1	3.53	37.56	39.71	38.16	39.71	0.000111	0.33	10.68	7.90	0.09
Calicino	74	Max WS	TR05_06H_SA1	3.69	37.56	39.78	38.17	39.79	0.000105	0.33	11.27	8.12	0.09
Calicino	74	Max WS	TR05_09H_SA1	3.71	37.56	39.79	38.17	39.79	0.000105	0.33	11.32	8.15	0.09
Calicino	74	Max WS	TR05_01H_SP1	3.89	37.56	39.40	38.19	39.42	0.000257	0.46	8.41	7.08	0.14
Calicino	74	Max WS	TR05_03H_SP1	3.16	37.56	39.51	38.12	39.51	0.000135	0.35	9.15	7.36	0.10
Calicino	74	Max WS	TR05_06H_SP1	3.15	37.56	39.51	38.12	39.51	0.000134	0.34	9.14	7.35	0.10
Calicino	74	Max WS	TR05_09H_SP1	3.43	37.56	39.52	38.15	39.53	0.000155	0.37	9.25	7.39	0.11
Calicino	73.5			Inl Struct									
Calicino	73	Max WS	TR05_01H_SA1	3.69	37.56	39.13	38.17	39.14	0.000451	0.56	6.56	6.33	0.18
Calicino	73	Max WS	TR05_03H_SA1	3.53	37.56	39.47	38.16	39.48	0.000181	0.40	8.91	7.27	0.11
Calicino	73	Max WS	TR05_06H_SA1	3.69	37.56	39.54	38.17	39.55	0.000170	0.39	9.42	7.46	0.11
Calicino	73	Max WS	TR05_09H_SA1	3.70	37.56	39.55	38.17	39.56	0.000170	0.39	9.46	7.47	0.11
Calicino	73	Max WS	TR05_01H_SP1	3.69	37.56	39.13	38.17	39.15	0.000451	0.56	6.57	6.34	0.18
Calicino	73	Max WS	TR05_03H_SP1	3.16	37.56	39.31	38.12	39.32	0.000209	0.41	7.78	6.84	0.12
Calicino	73	Max WS	TR05_06H_SP1	3.14	37.56	39.32	38.12	39.32	0.000206	0.40	7.79	6.84	0.12
Calicino	73	Max WS	TR05_09H_SP1	3.14	37.56	39.31	38.12	39.32	0.000207	0.40	7.78	6.84	0.12
Calicino	72	Max WS	TR05_01H_SA1	3.68	37.56	39.13	38.17	39.14	0.000454	0.56	6.54	6.33	0.18
Calicino	72	Max WS	TR05_03H_SA1	3.53	37.56	39.47	38.16	39.48	0.000181	0.40	8.90	7.27	0.11
Calicino	72	Max WS	TR05_06H_SA1	3.69	37.56	39.54	38.17	39.55	0.000170	0.39	9.42	7.45	0.11
Calicino	72	Max WS	TR05_09H_SA1	3.70	37.56	39.55	38.17	39.56	0.000170	0.39	9.45	7.47	0.11
Calicino	72	Max WS	TR05_01H_SP1	3.69	37.56	39.13	38.17	39.14	0.000453	0.56	6.55	6.33	0.18
Calicino	72	Max WS	TR05_03H_SP1	3.16	37.56	39.31	38.12	39.32	0.000209	0.41	7.77	6.83	0.12
Calicino	72	Max WS	TR05_06H_SP1	3.14	37.56	39.31	38.12	39.32	0.000206	0.40	7.78	6.84	0.12
Calicino	72	Max WS	TR05_09H_SP1	3.14	37.56	39.31	38.12	39.32	0.000207	0.40	7.77	6.83	0.12

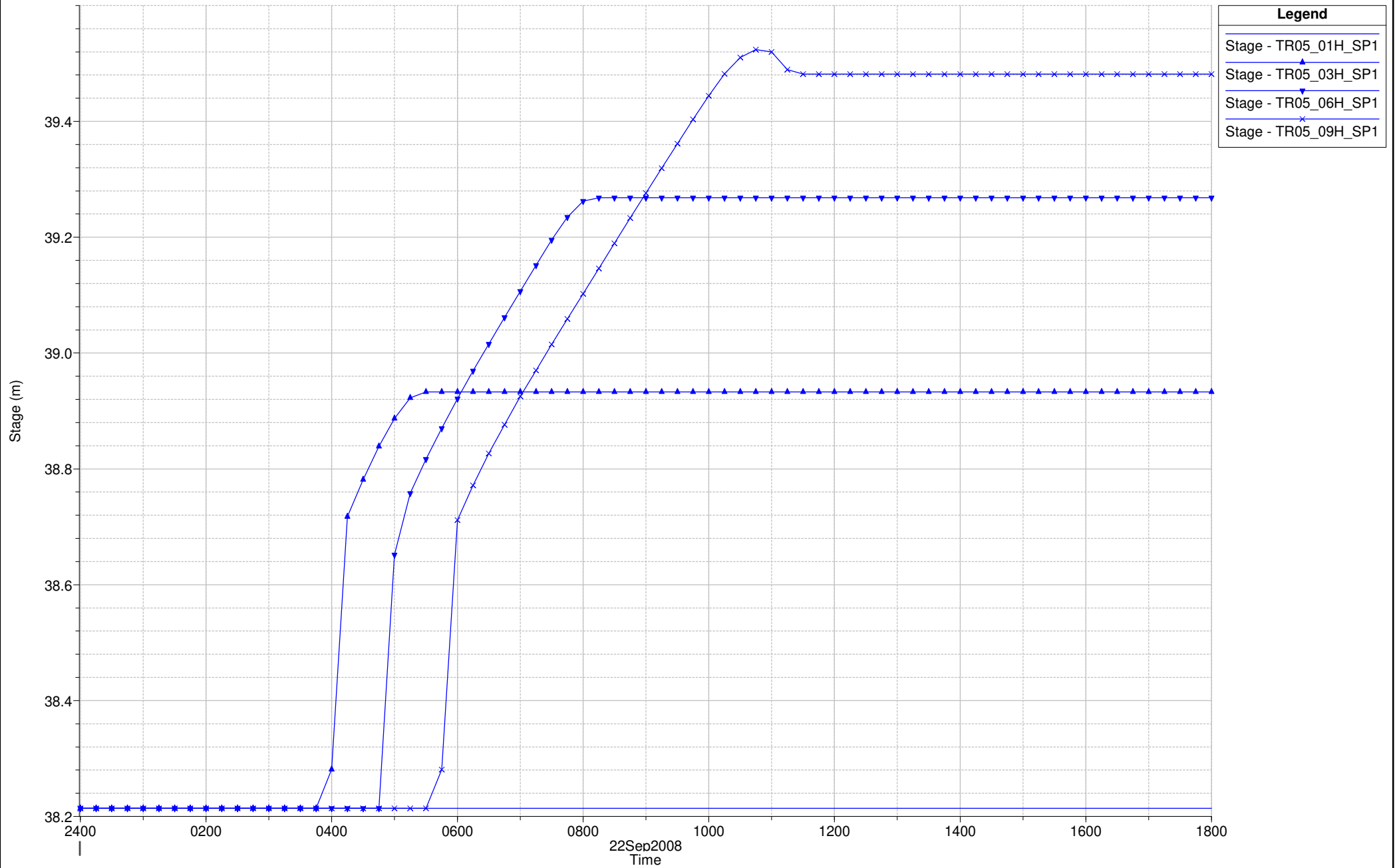
HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
APE019	Max WS	TR05_01H_SA1	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_03H_SA1	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_06H_SA1	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_09H_SA1	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_01H_SP1	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_03H_SP1	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_06H_SP1	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_09H_SP1	38.20	38.20	0.00	9.05	0.00
APE020	Max WS	TR05_01H_SA1	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_03H_SA1	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_06H_SA1	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_09H_SA1	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_01H_SP1	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_03H_SP1	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_06H_SP1	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_09H_SP1	37.95	37.95	0.00	14.80	0.00
APE021_C	Max WS	TR05_01H_SA1	38.60	38.60	0.00	4.19	0.00
APE021_C	Max WS	TR05_03H_SA1	38.60	38.60	0.00	4.19	0.00
APE021_C	Max WS	TR05_06H_SA1	38.60	38.60	0.00	4.19	0.00
APE021_C	Max WS	TR05_09H_SA1	38.60	38.60	0.00	4.19	0.00
APE021_C	Max WS	TR05_01H_SP1	38.73	38.73	0.00	0.02	0.00
APE021_C	Max WS	TR05_03H_SP1	38.73	38.73	0.00	0.02	0.00
APE021_C	Max WS	TR05_06H_SP1	38.73	38.73	0.00	0.02	0.00
APE021_C	Max WS	TR05_09H_SP1	38.73	38.73	0.00	0.02	0.00
APE021_N	Max WS	TR05_01H_SA1	38.12	38.12	0.00	0.00	0.00
APE021_N	Max WS	TR05_03H_SA1	38.12	38.12	0.00	0.00	0.00
APE021_N	Max WS	TR05_06H_SA1	38.69	38.12	0.02	5.98	0.54
APE021_N	Max WS	TR05_09H_SA1	38.88	38.12	0.09	30.44	2.04
APE021_N	Max WS	TR05_01H_SP1	38.12	38.12	0.00	0.00	0.00
APE021_N	Max WS	TR05_03H_SP1	38.12	38.12	0.00	0.00	0.00
APE021_N	Max WS	TR05_06H_SP1	38.12	38.12	0.00	0.00	0.00
APE021_N	Max WS	TR05_09H_SP1	38.12	38.12	0.00	0.00	0.00
APE021_S	Max WS	TR05_01H_SA1	38.37	38.37	0.00	0.36	0.00
APE021_S	Max WS	TR05_03H_SA1	38.37	38.37	0.00	0.36	0.00
APE021_S	Max WS	TR05_06H_SA1	38.37	38.37	0.00	0.36	0.00
APE021_S	Max WS	TR05_09H_SA1	38.37	38.37	0.00	0.36	0.00
APE022	Max WS	TR05_01H_SA1	37.97	37.97	0.00	0.08	0.00
APE022	Max WS	TR05_03H_SA1	37.97	37.97	0.00	0.08	0.00
APE022	Max WS	TR05_06H_SA1	37.97	37.97	0.00	0.08	0.00
APE022	Max WS	TR05_09H_SA1	37.97	37.97	0.00	0.08	0.00
APE022	Max WS	TR05_01H_SP1	37.97	37.97	0.00	0.08	0.00
APE022	Max WS	TR05_03H_SP1	37.97	37.97	0.00	0.08	0.00
APE022	Max WS	TR05_06H_SP1	37.97	37.97	0.00	0.08	0.00
APE022	Max WS	TR05_09H_SP1	37.97	37.97	0.00	0.08	0.00
APE023_EL	Max WS	TR05_01H_SA1	38.96	38.55	0.02	4.47	0.24
APE023_EL	Max WS	TR05_03H_SA1	39.04	38.55	0.09	8.07	0.79
APE023_EL	Max WS	TR05_06H_SA1	39.12	38.55	0.14	20.33	2.03
APE023_EL	Max WS	TR05_09H_SA1	39.17	38.55	0.08	26.92	3.05
APE023_EL	Max WS	TR05_01H_SP1	38.55	38.55	0.00	4.01	0.00
APE023_EL	Max WS	TR05_03H_SP1	38.55	38.55	0.00	4.01	0.00
APE023_EL	Max WS	TR05_06H_SP1	38.55	38.55	0.00	4.01	0.01
APE023_EL	Max WS	TR05_09H_SP1	38.55	38.55	0.00	4.01	0.01
APE023_Lago	Max WS	TR05_01H_SA1	38.90	38.32	0.01	20.08	1.55
APE023_Lago	Max WS	TR05_03H_SA1	38.92	38.32	0.08	33.79	1.90
APE023_Lago	Max WS	TR05_06H_SA1	38.95	38.32	0.16	33.79	2.93

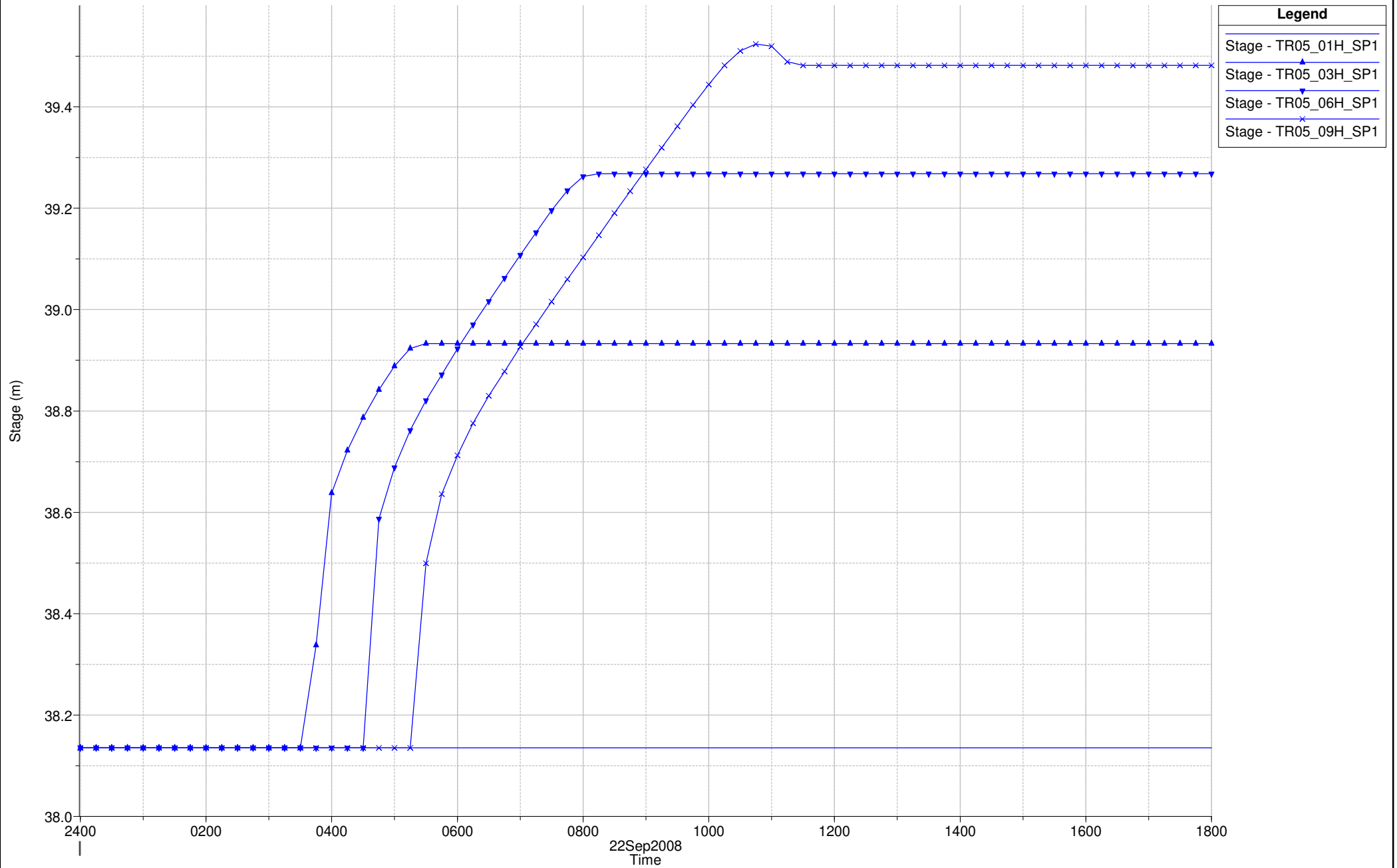
HEC-RAS Profile: Max WS (Continued)

Storage Area	Profile	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
APE023_Lago	Max WS	TR05_09H_SA1	38.97	38.32	0.17	42.04	3.95
APE023_Lago	Max WS	TR05_01H_SP1	38.90	38.32	0.00	20.08	1.52
APE023_Lago	Max WS	TR05_03H_SP1	38.90	38.32	0.00	20.08	1.52
APE023_Lago	Max WS	TR05_06H_SP1	38.90	38.32	0.00	20.08	1.52
APE023_Lago	Max WS	TR05_09H_SP1	38.90	38.32	0.00	20.08	1.52
APE024	Max WS	TR05_01H_SA1	38.42	38.42	0.00	0.04	0.00
APE024	Max WS	TR05_03H_SA1	38.42	38.42	0.00	0.04	0.00
APE024	Max WS	TR05_06H_SA1	38.42	38.42	0.00	0.04	0.00
APE024	Max WS	TR05_09H_SA1	38.42	38.42	0.00	0.04	0.00
APE024	Max WS	TR05_01H_SP1	38.42	38.42	0.00	0.04	0.00
APE024	Max WS	TR05_03H_SP1	38.42	38.42	0.00	0.04	0.00
APE024	Max WS	TR05_06H_SP1	38.42	38.42	0.00	0.04	0.00
APE024	Max WS	TR05_09H_SP1	38.42	38.42	0.00	0.04	0.00
APE167	Max WS	TR05_01H_SA1	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_03H_SA1	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_06H_SA1	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_09H_SA1	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_01H_SP1	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_03H_SP1	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_06H_SP1	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_09H_SP1	37.41	37.41	0.00	0.04	0.00
APE200	Max WS	TR05_01H_SA1	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_03H_SA1	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_06H_SA1	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_09H_SA1	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_01H_SP1	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_03H_SP1	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_06H_SP1	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_09H_SP1	39.08	39.08	0.00	0.16	0.00
NordPantanelle	Max WS	TR05_01H_SA1	38.96	38.79	0.07	2.44	0.11
NordPantanelle	Max WS	TR05_03H_SA1	39.04	38.79	0.16	11.23	0.68
NordPantanelle	Max WS	TR05_06H_SA1	39.12	38.79	0.24	22.97	2.08
NordPantanelle	Max WS	TR05_09H_SA1	39.17	38.79	0.25	25.81	3.16
NordPantanelle	Max WS	TR05_01H_SP1	38.79	38.79	0.00	0.02	0.00
NordPantanelle	Max WS	TR05_03H_SP1	38.79	38.79	0.00	0.02	0.00
NordPantanelle	Max WS	TR05_06H_SP1	38.79	38.79	0.00	0.02	0.00
NordPantanelle	Max WS	TR05_09H_SP1	38.79	38.79	0.00	0.02	0.00
ArealInvaso_N	Max WS	TR05_01H_SP1	38.21	38.21	0.00	0.10	0.00
ArealInvaso_N	Max WS	TR05_03H_SP1	38.93	38.21	0.00	8.59	1.75
ArealInvaso_N	Max WS	TR05_06H_SP1	39.27	38.21	0.00	8.71	4.63
ArealInvaso_N	Max WS	TR05_09H_SP1	39.52	38.21	0.00	9.62	6.93
ArealInvaso_S	Max WS	TR05_01H_SP1	38.14	38.14	0.00	0.07	0.00
ArealInvaso_S	Max WS	TR05_03H_SP1	38.93	38.14	0.67	13.44	4.15
ArealInvaso_S	Max WS	TR05_06H_SP1	39.27	38.14	0.85	16.71	9.59
ArealInvaso_S	Max WS	TR05_09H_SP1	39.52	38.14	0.74	18.41	14.08

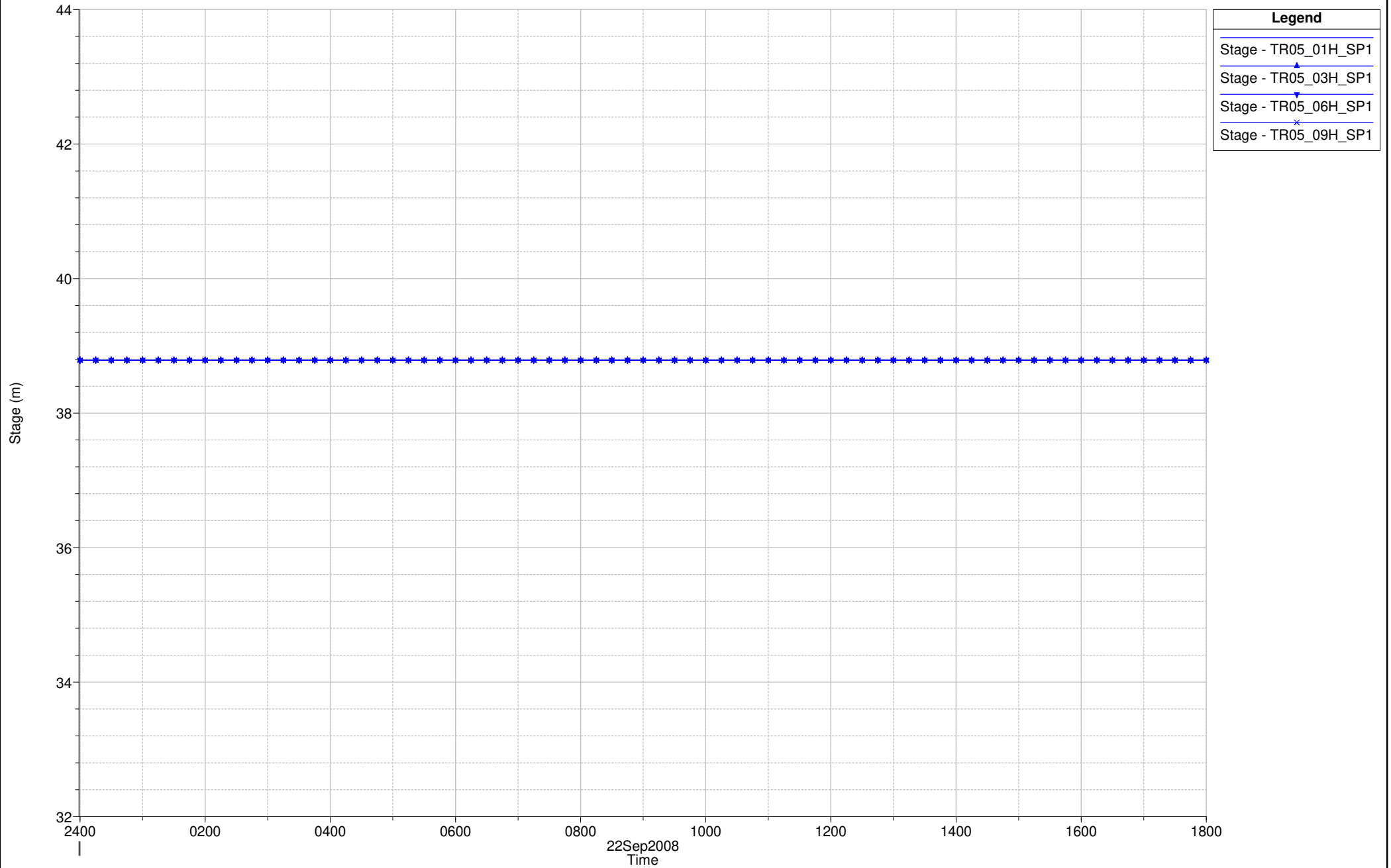
Storage Area: ArealInvaso_N



Storage Area: ArealInvaso_S



Storage Area: NordPantanelle



RISULTATI MODELLO HEC-RAS

Condizione al contorno di scarico rigurgitato dalla piena nel Torrente Ombrone

TEMPO DI RITORNO 5 anni

Geometria del modello idraulico

Profili MAX WS tempi di ritorno 5 anni

Sezioni MAX WS tempi di ritorno 5 anni

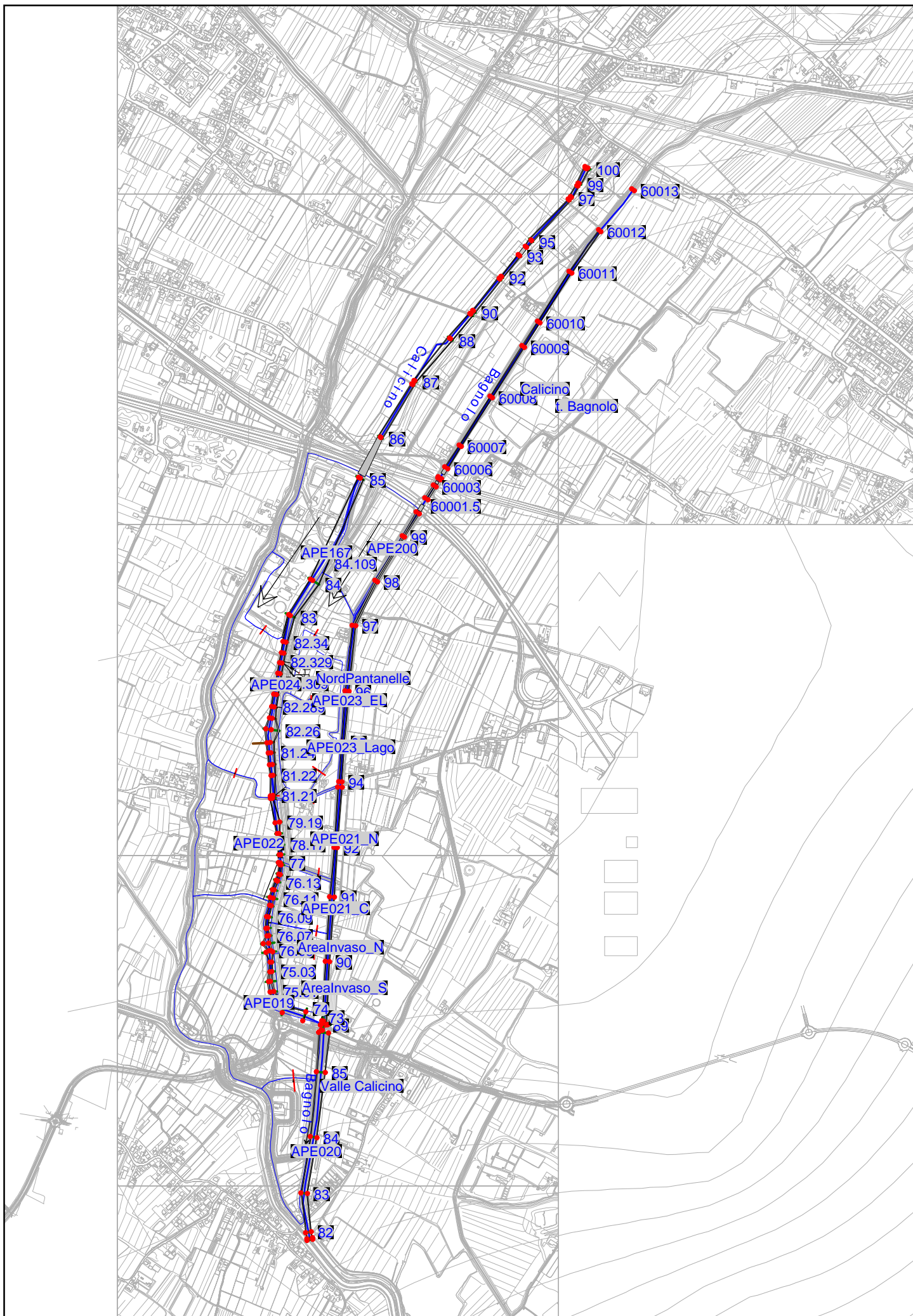
Tabella MAX WS sezioni idrauliche

Tabella MAX WS storage area

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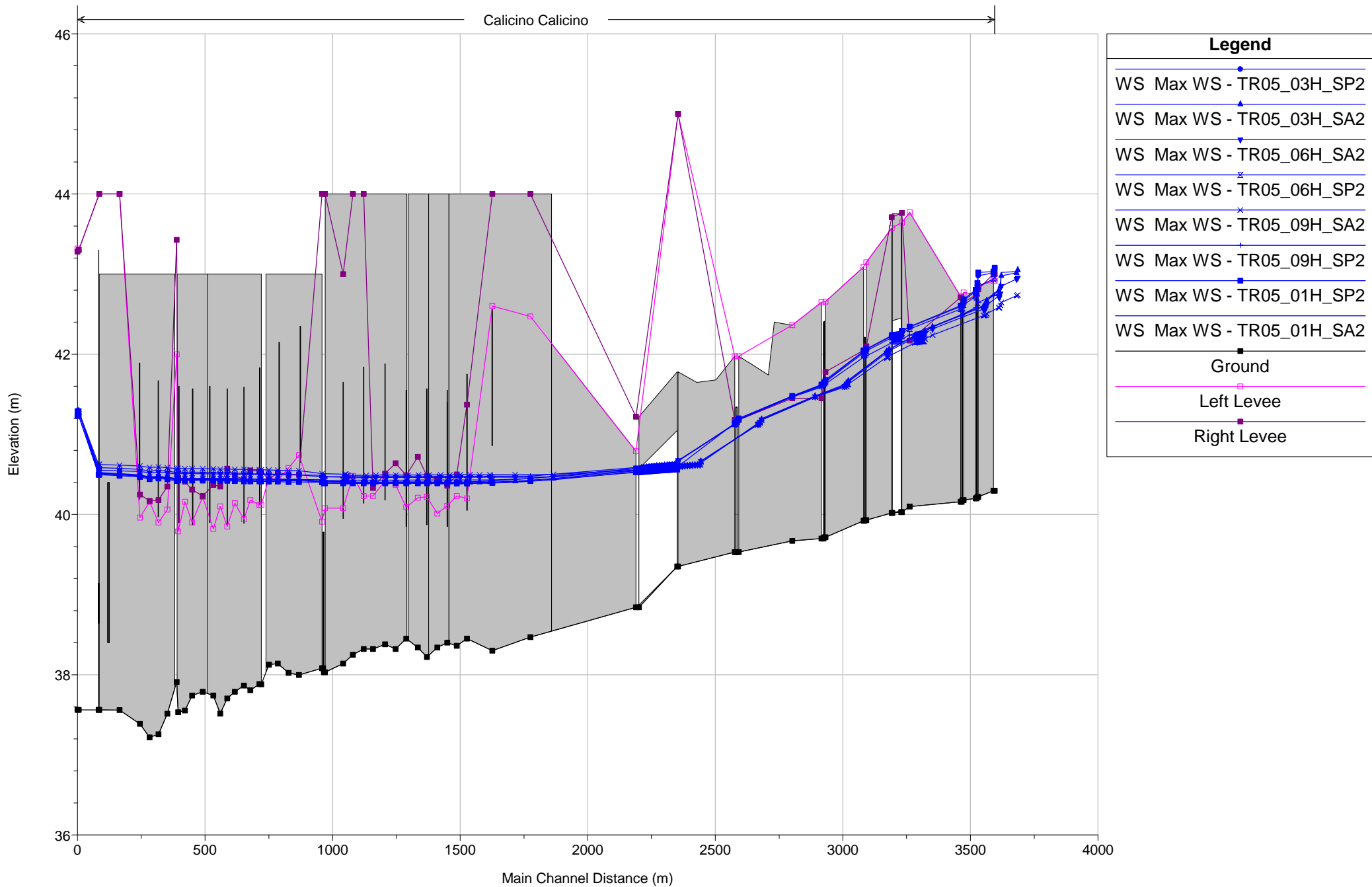
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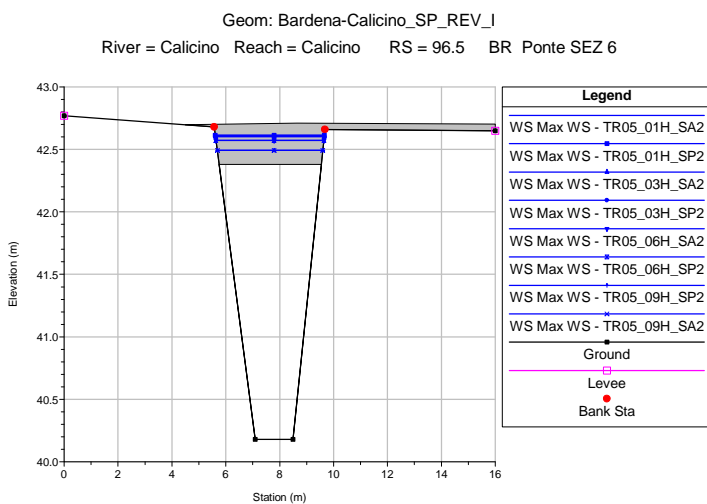
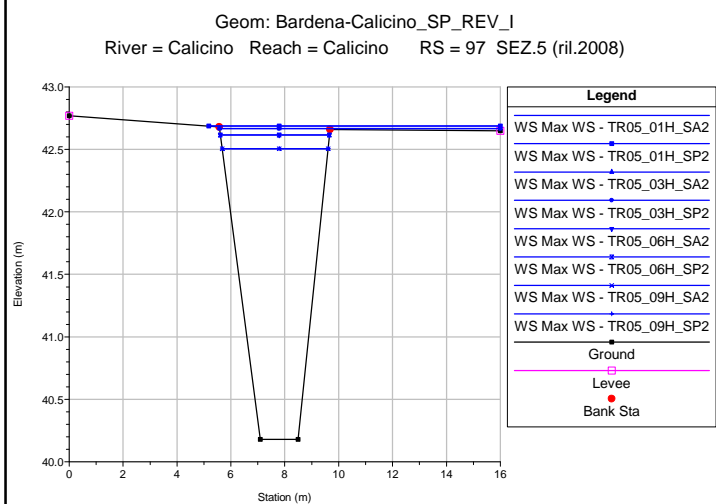
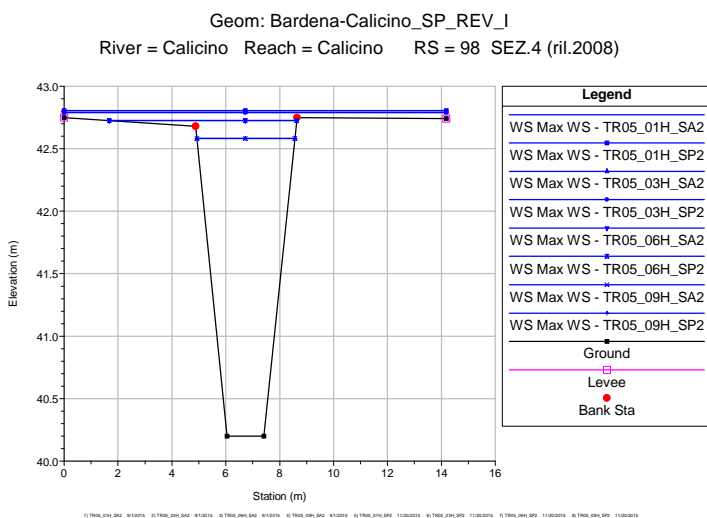
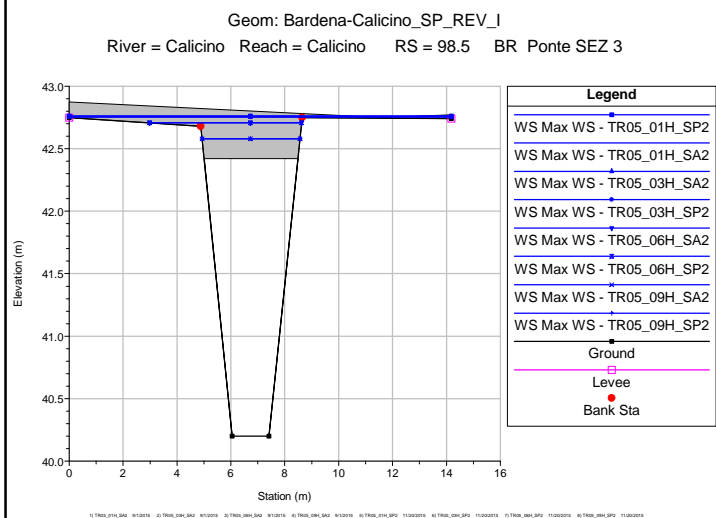
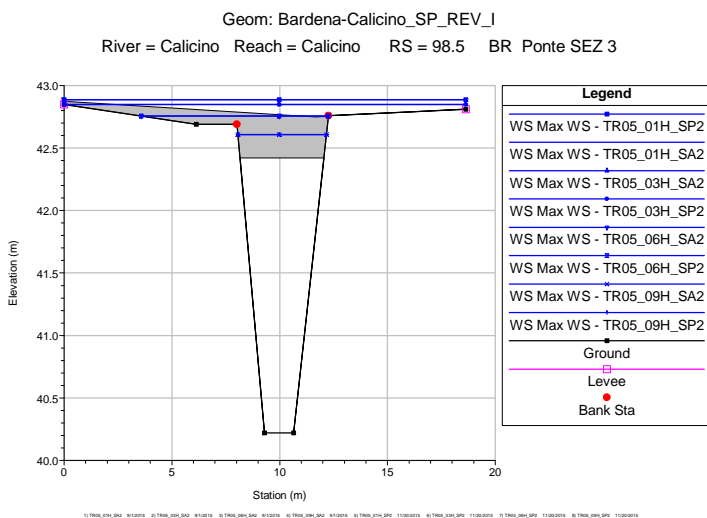
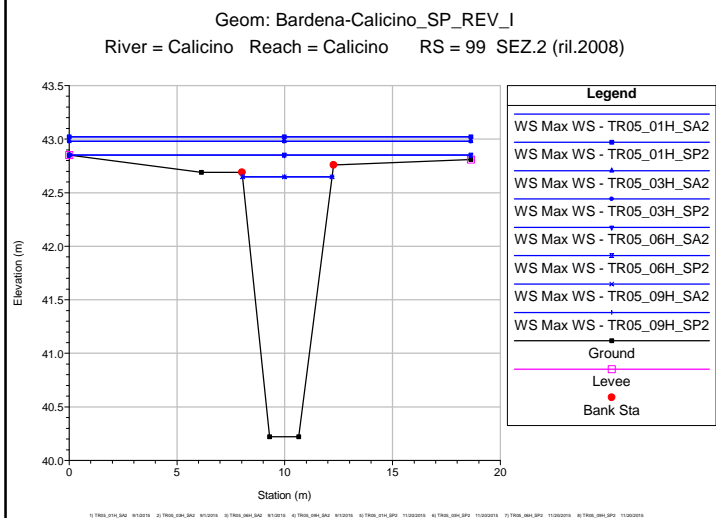
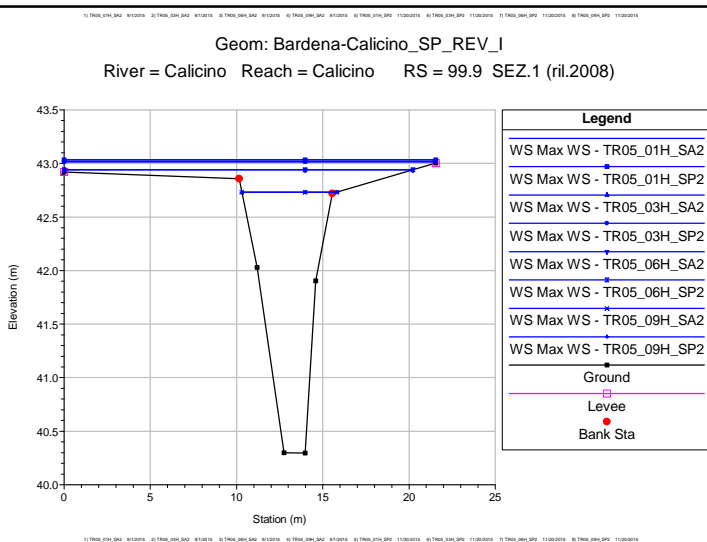
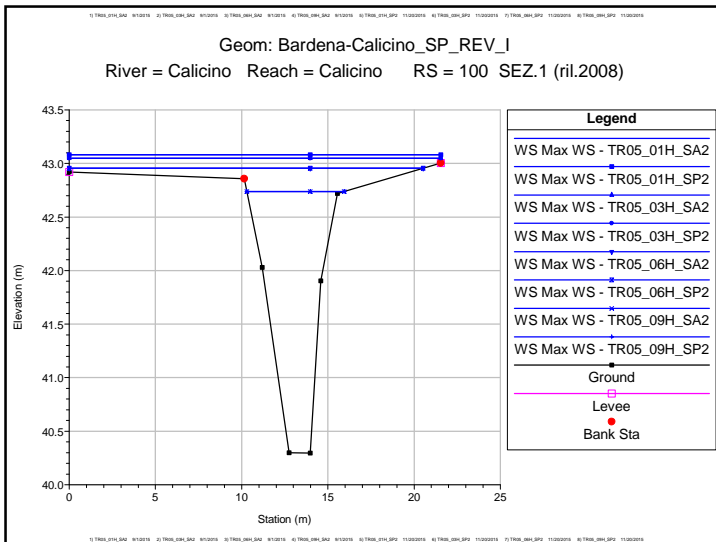
Idrogrammi delle quote del pelo libero Nord Pantanelle

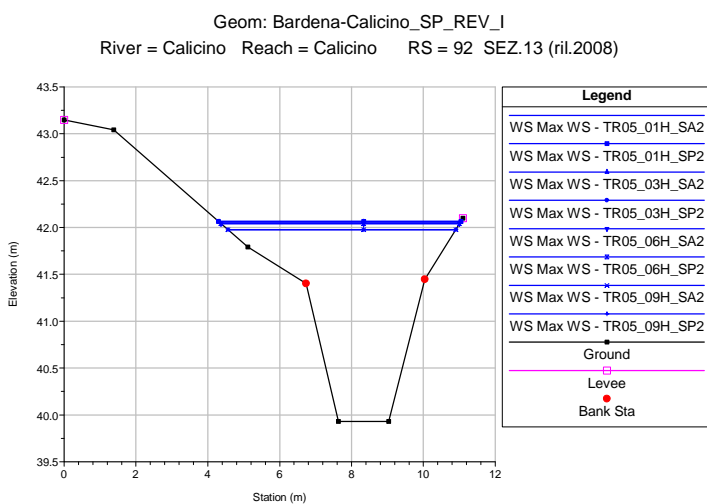
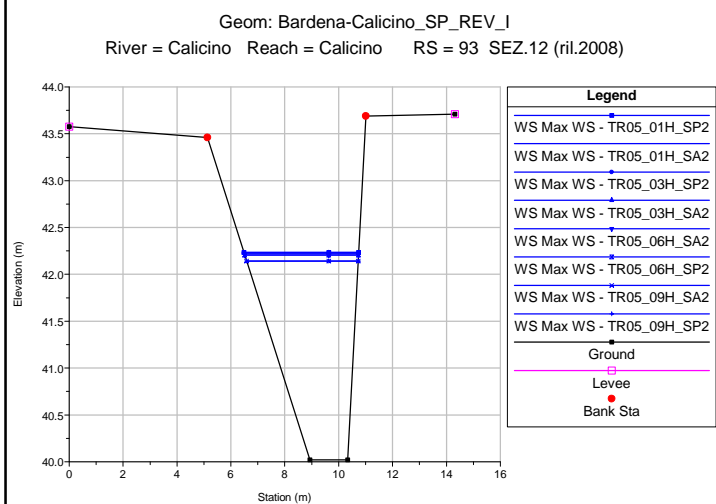
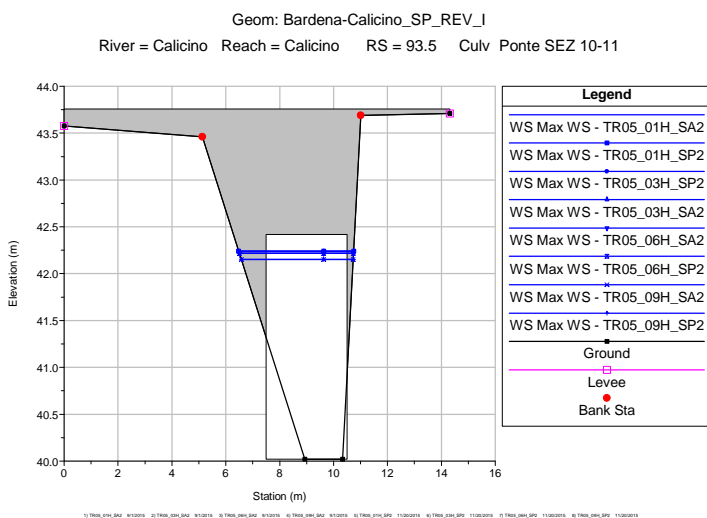
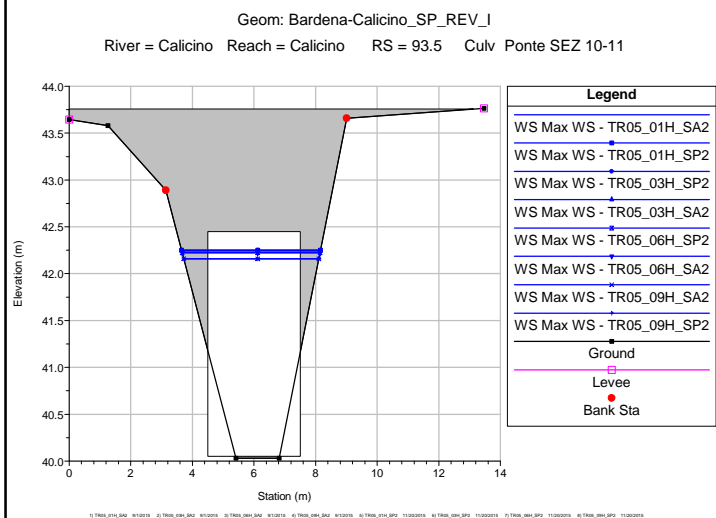
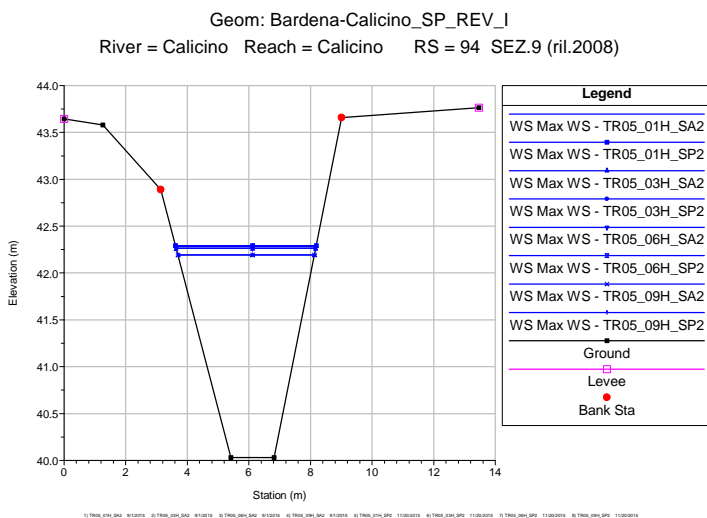
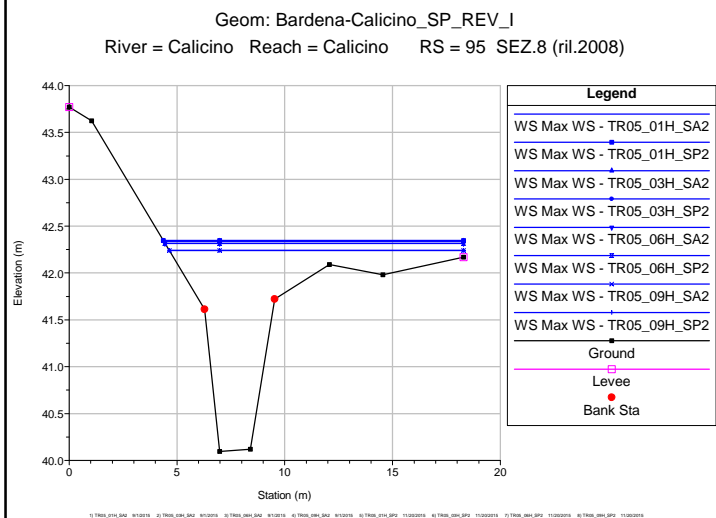
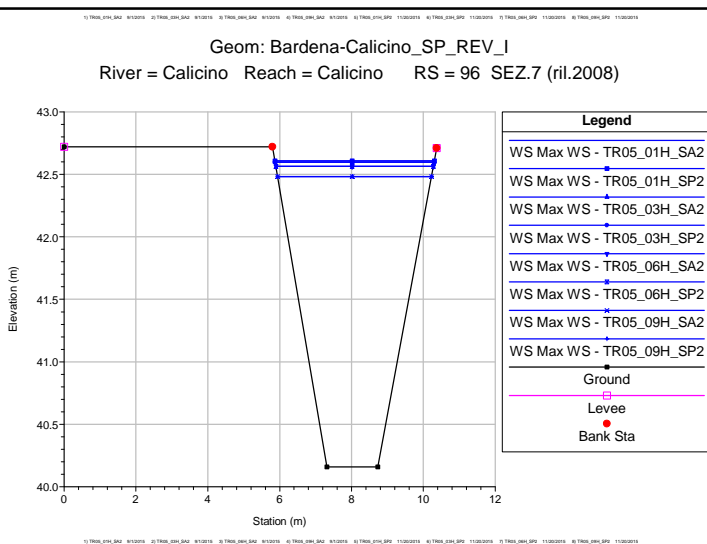
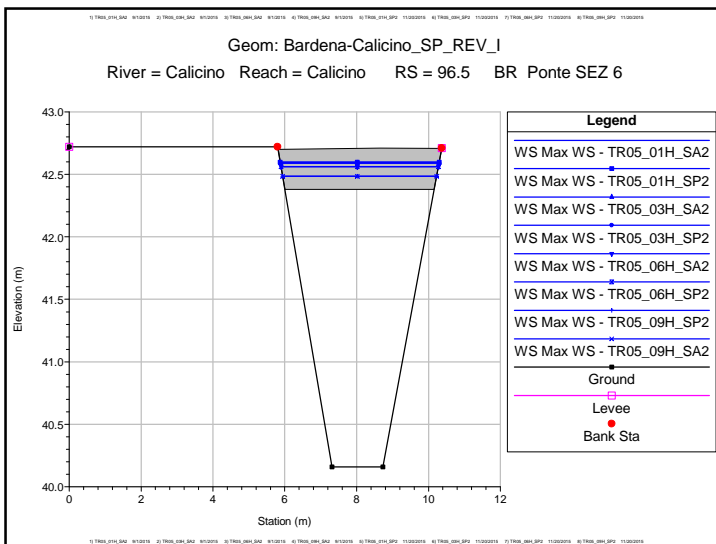


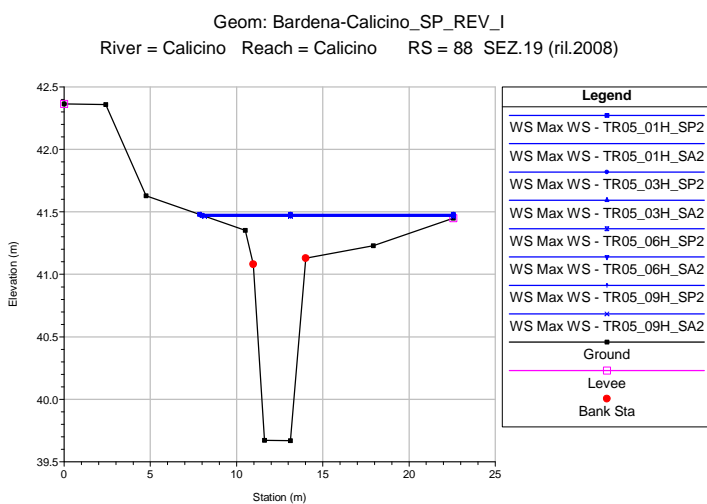
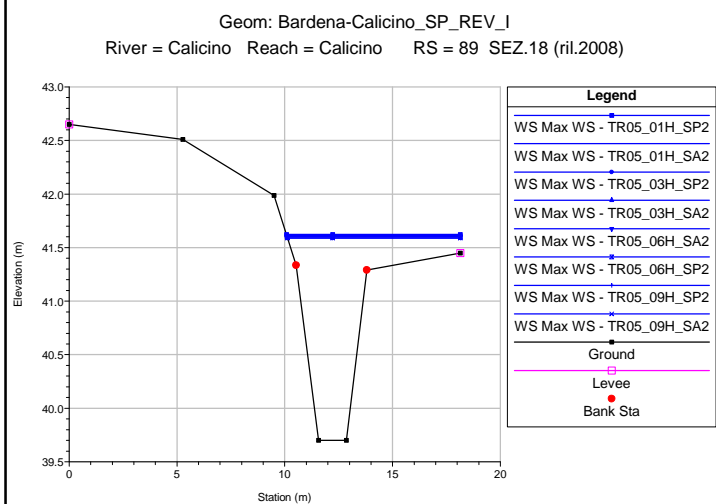
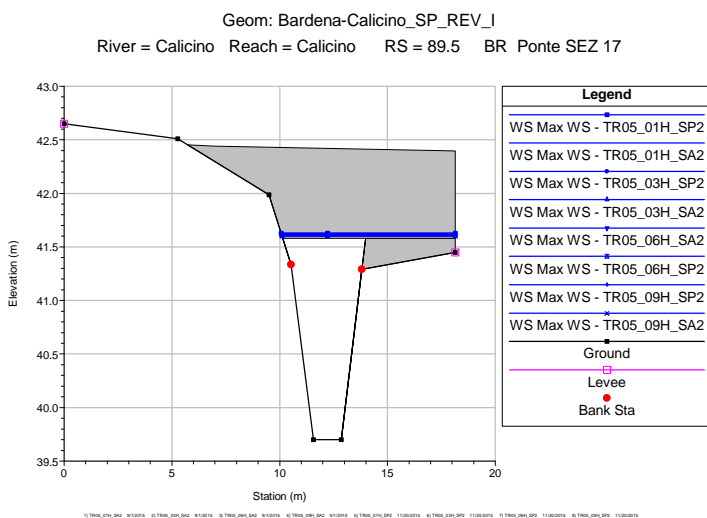
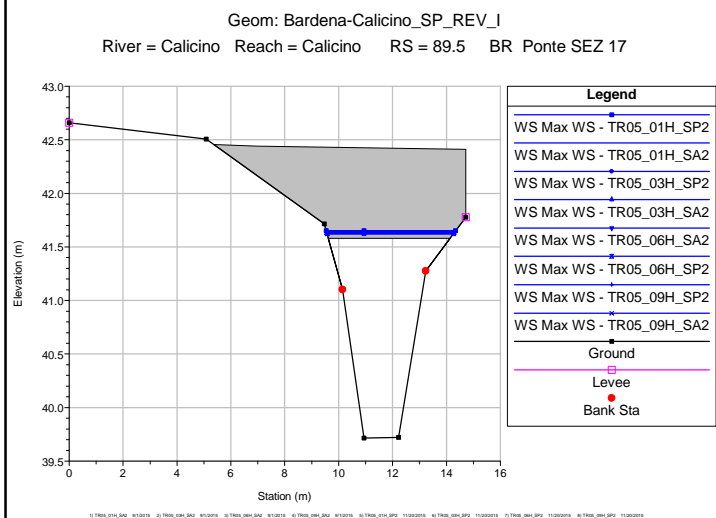
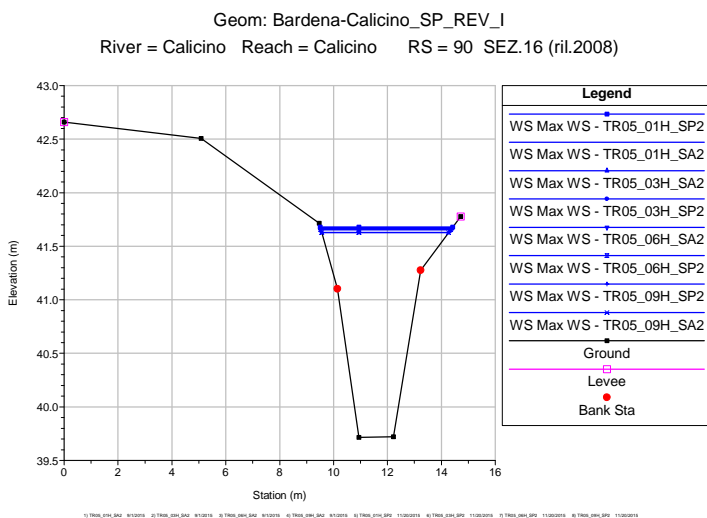
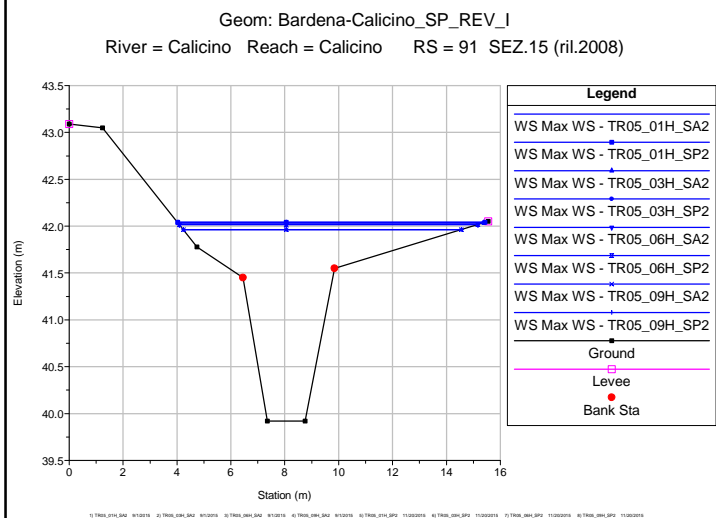
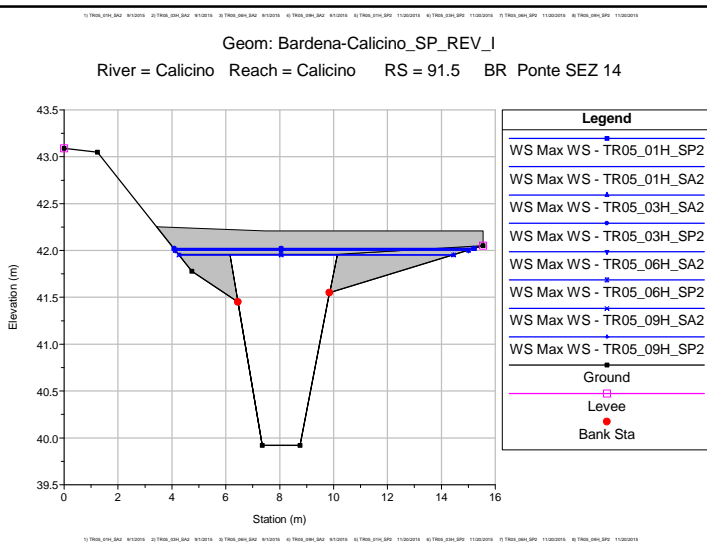
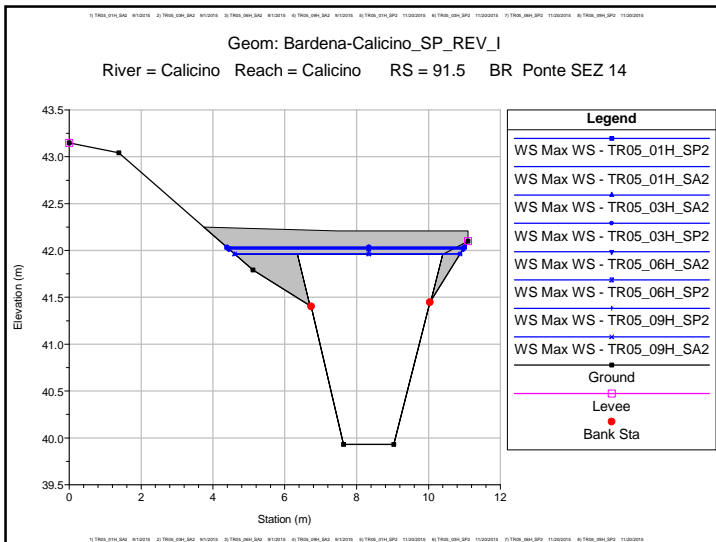
12 of the 94 XS's are not Geo-Referenced (Geo-Ref user entered XS, Geo-Ref interpolated XS, Non Geo-Ref user entered XS, Non Geo-Ref interpolated XS)
 1 cm Horiz. = 174 m 1 cm Vert. = 57 m

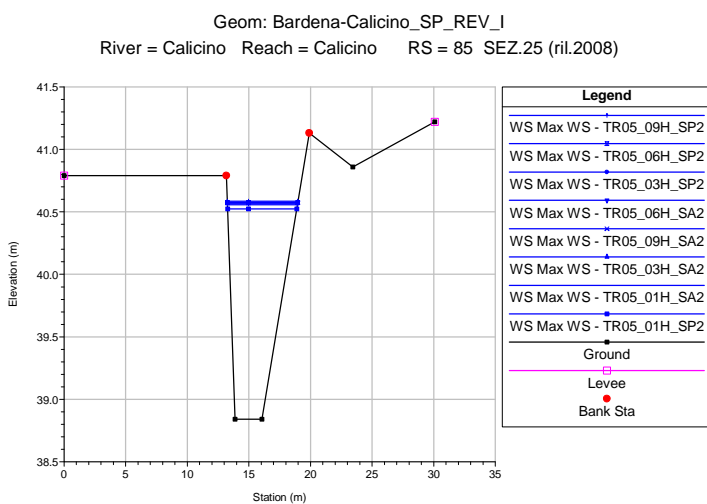
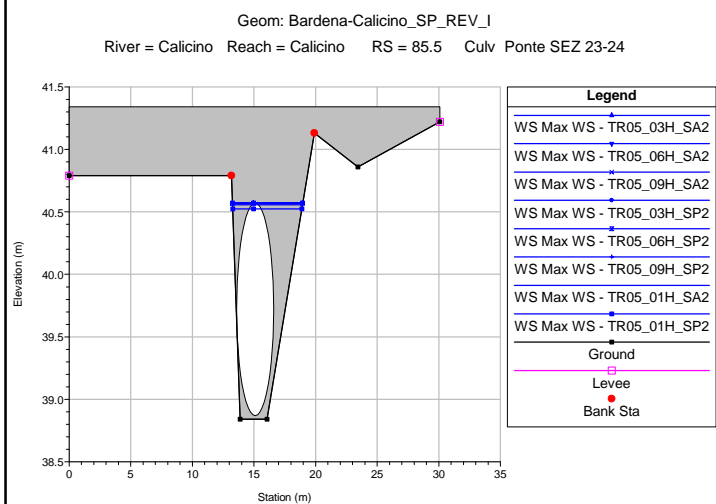
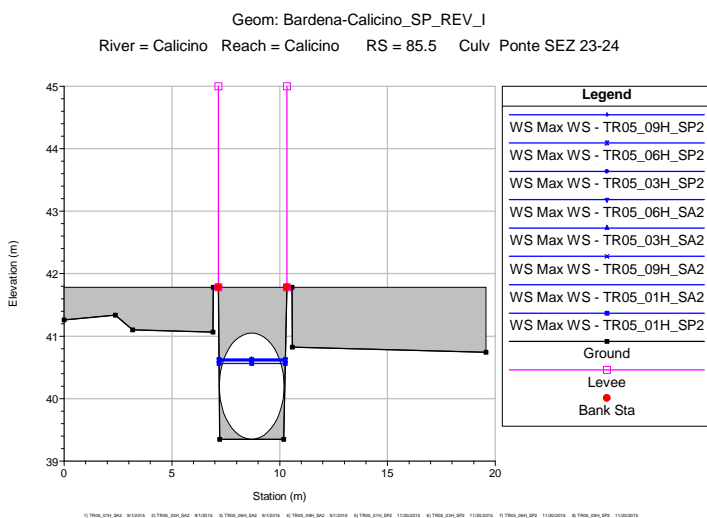
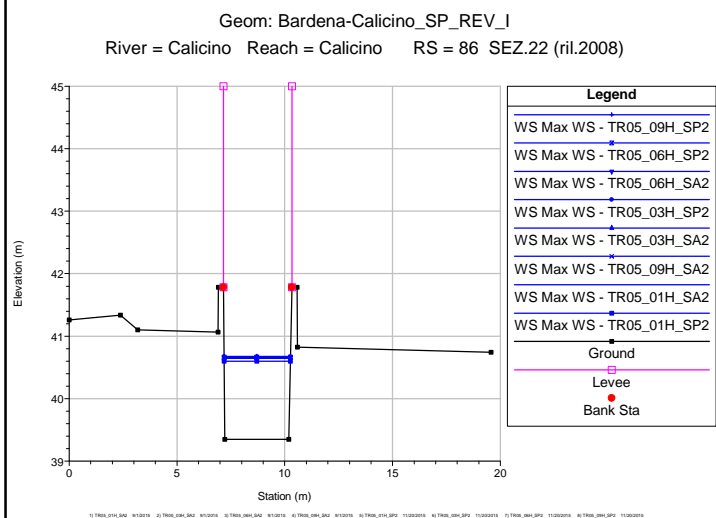
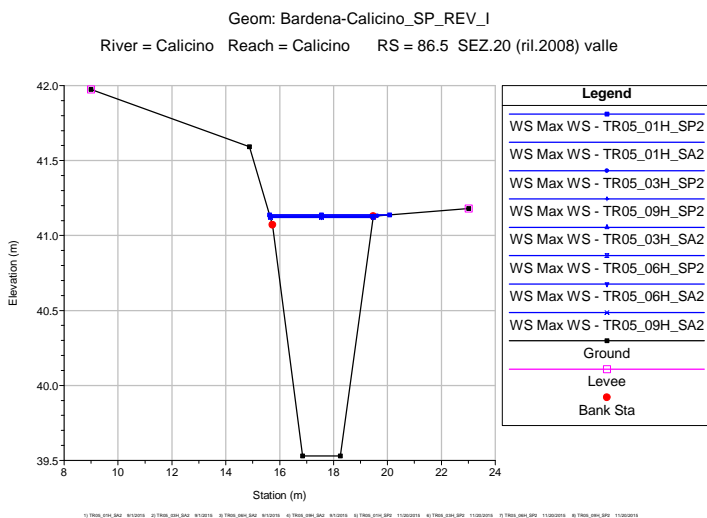
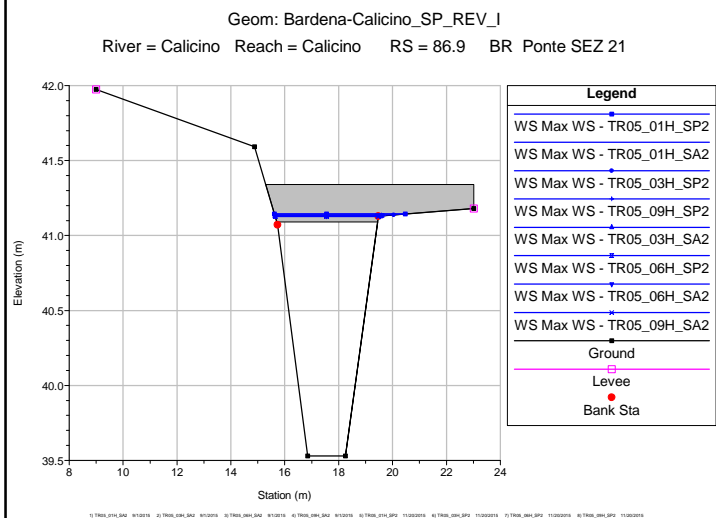
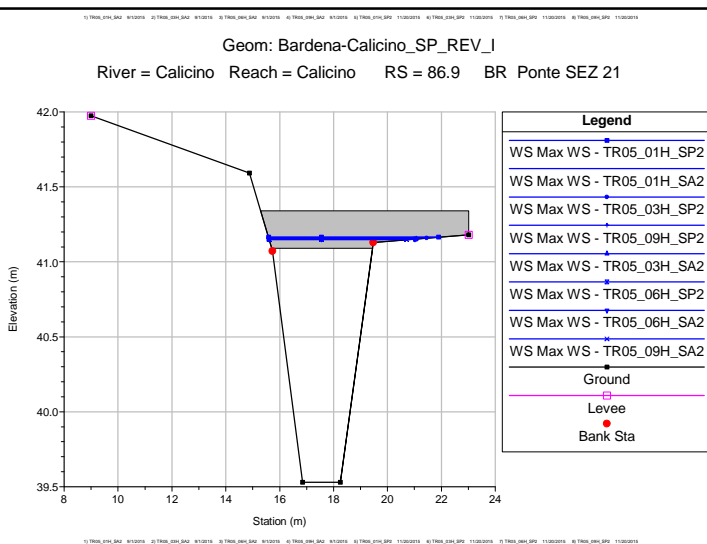
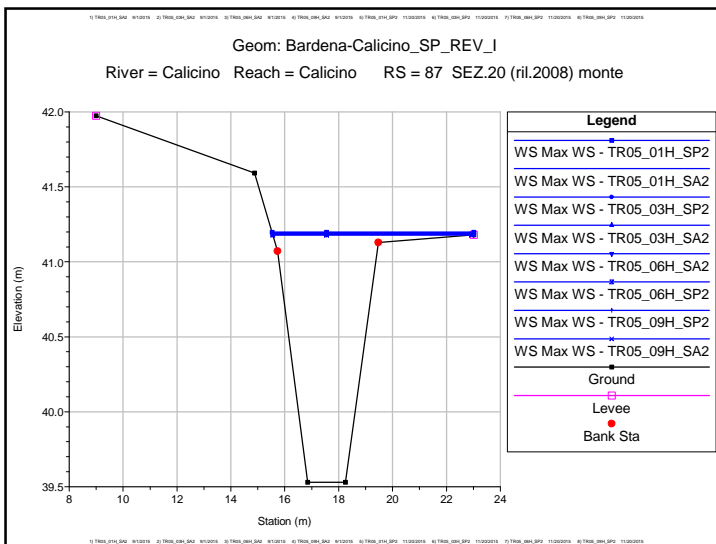
Geom: Bardena-Calicino_SP_REV_I

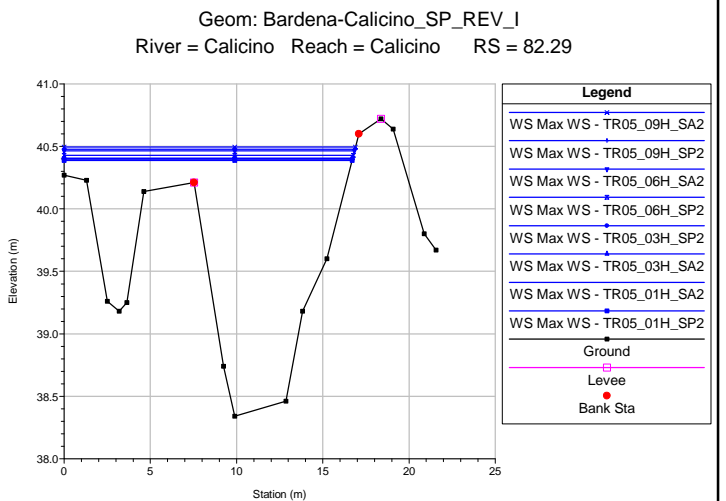
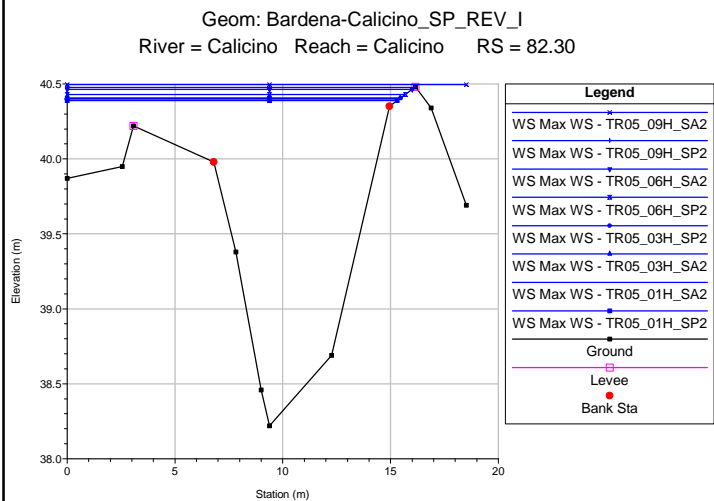
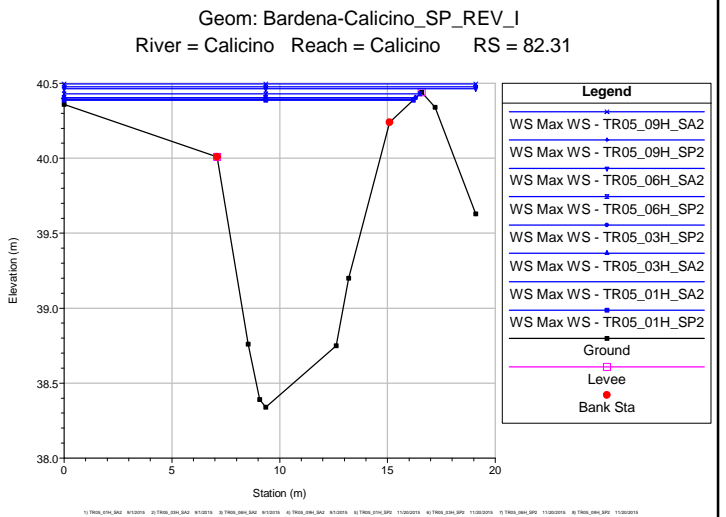
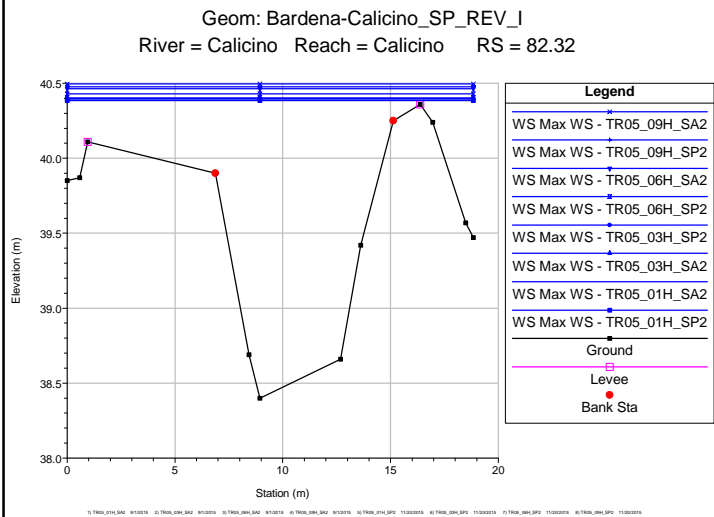
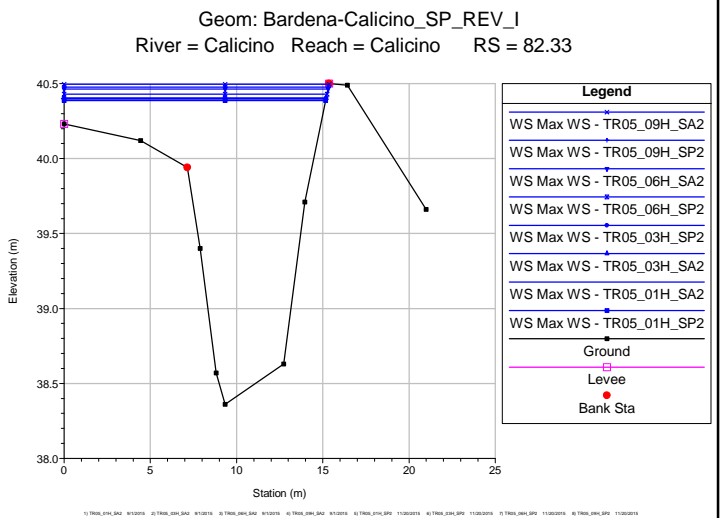
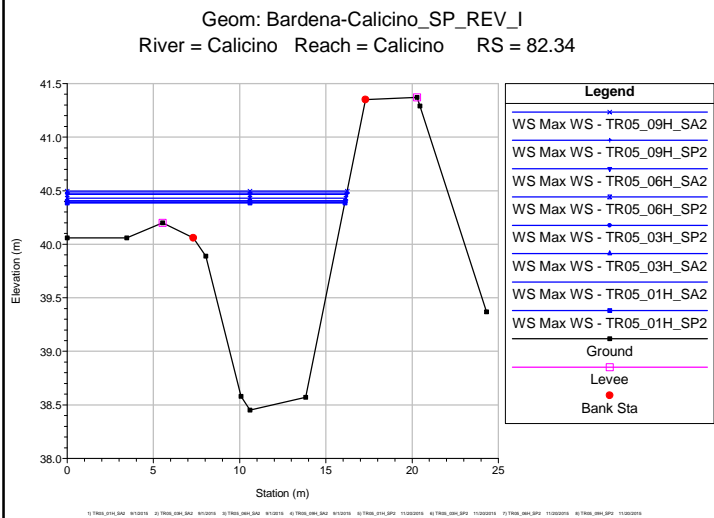
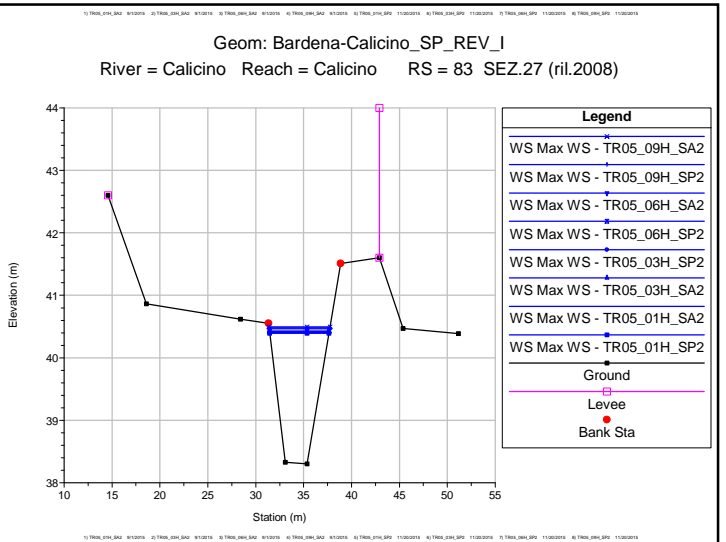
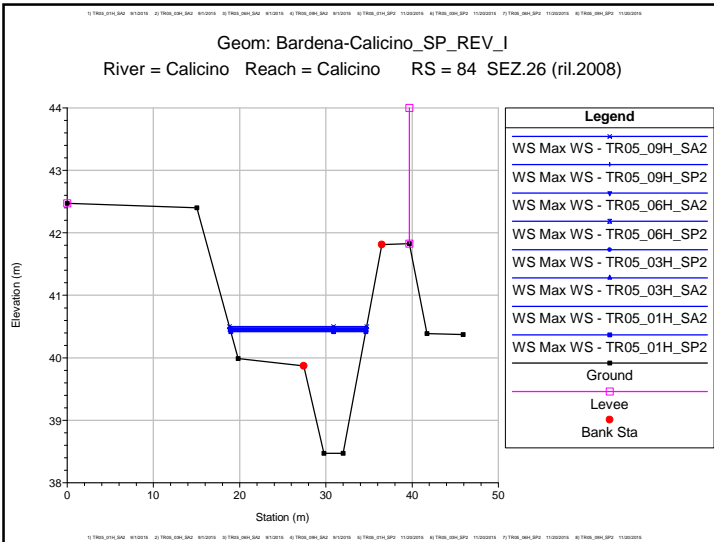


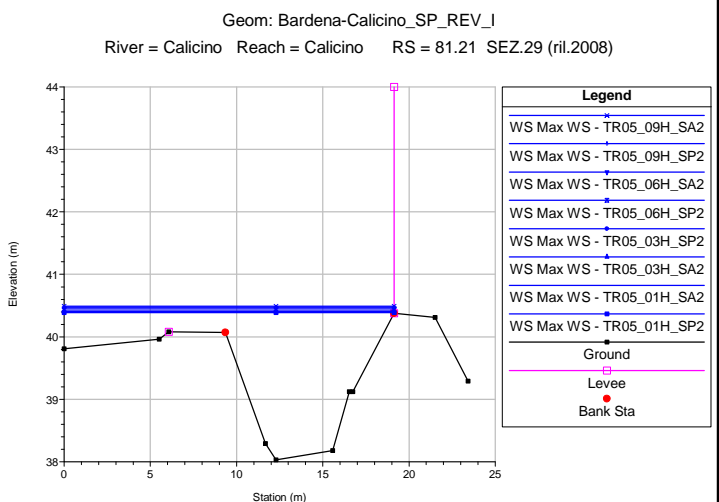
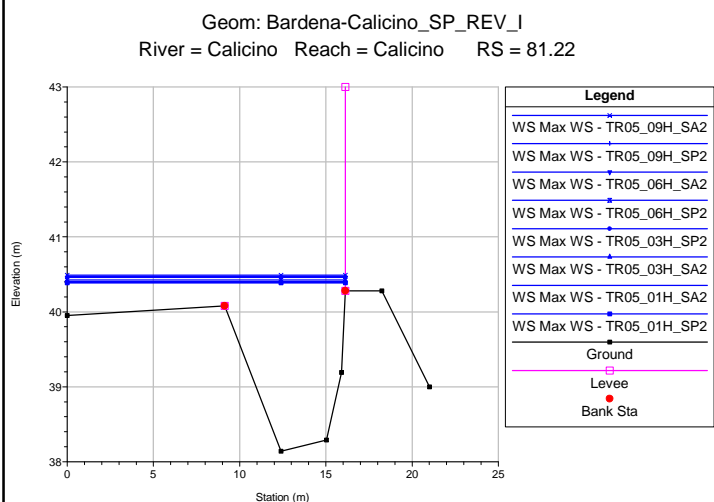
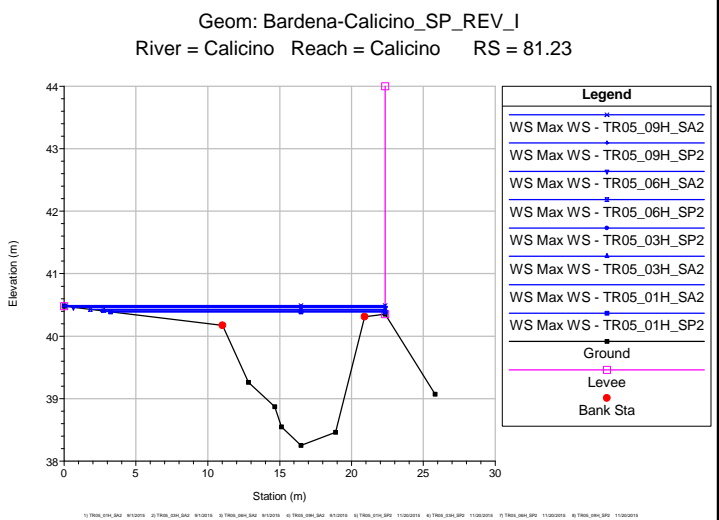
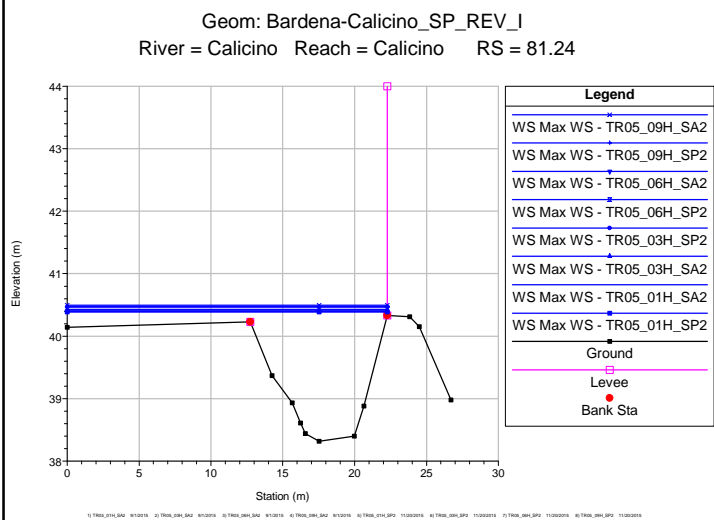
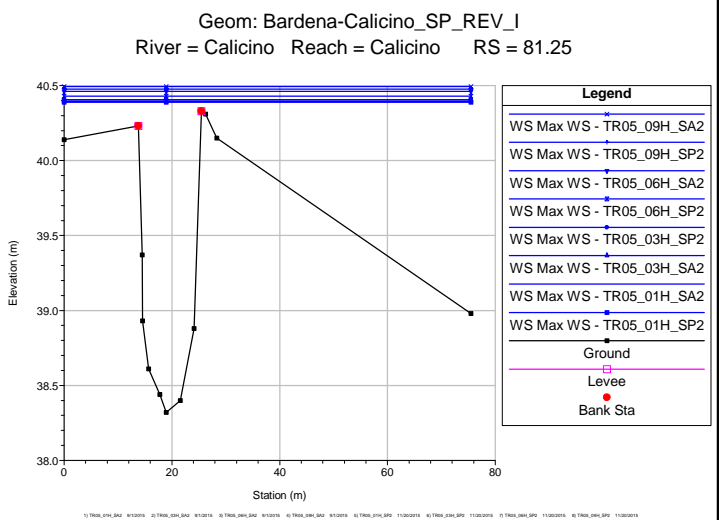
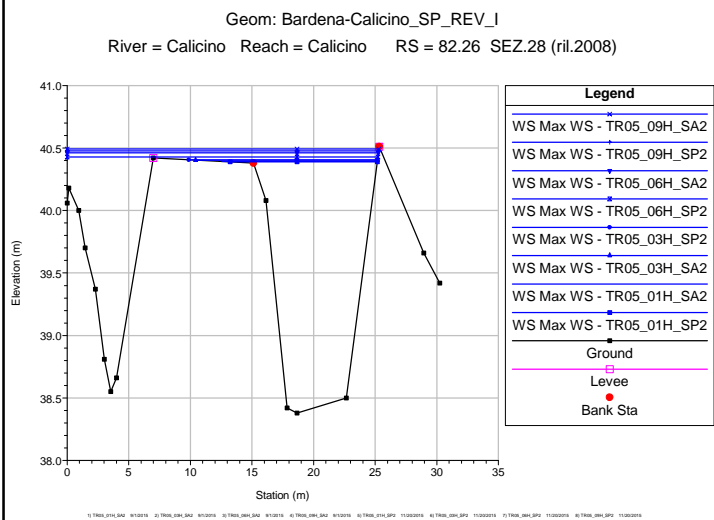
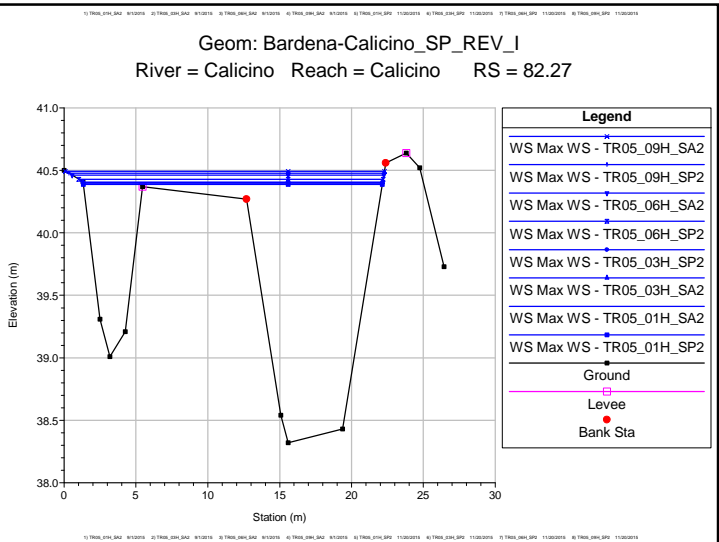
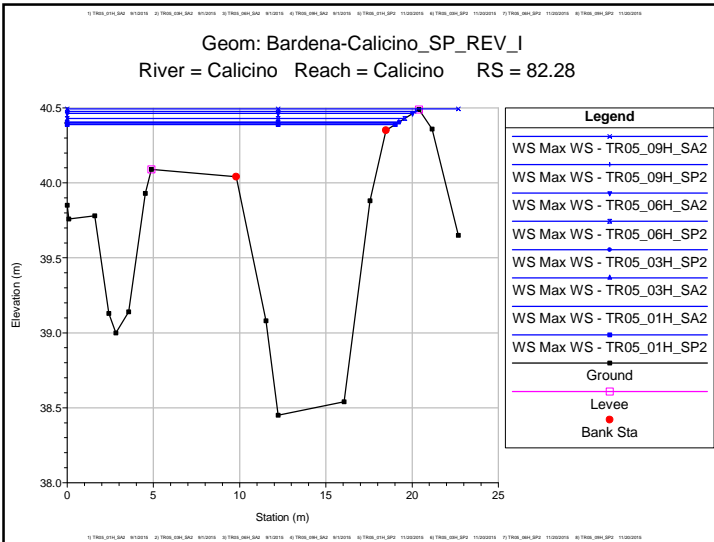


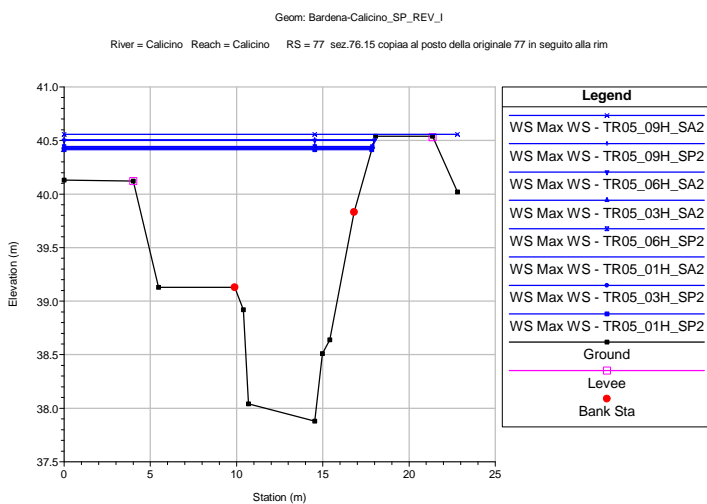
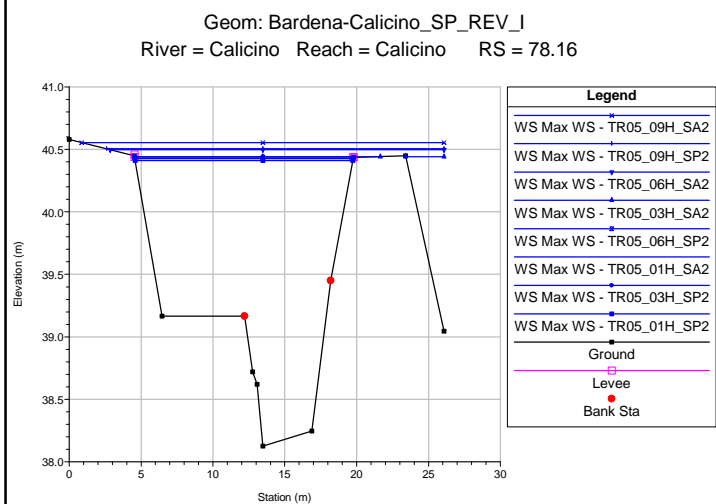
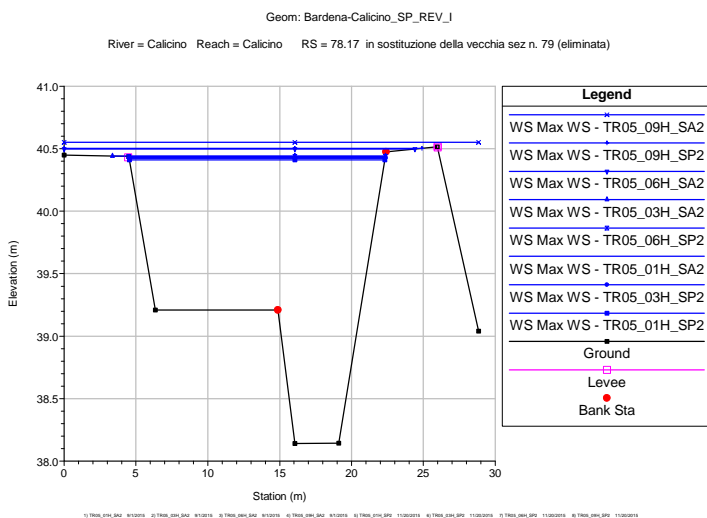
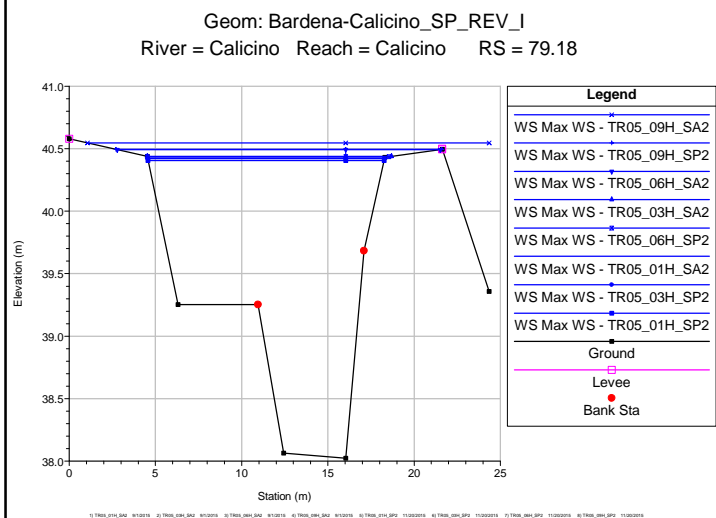
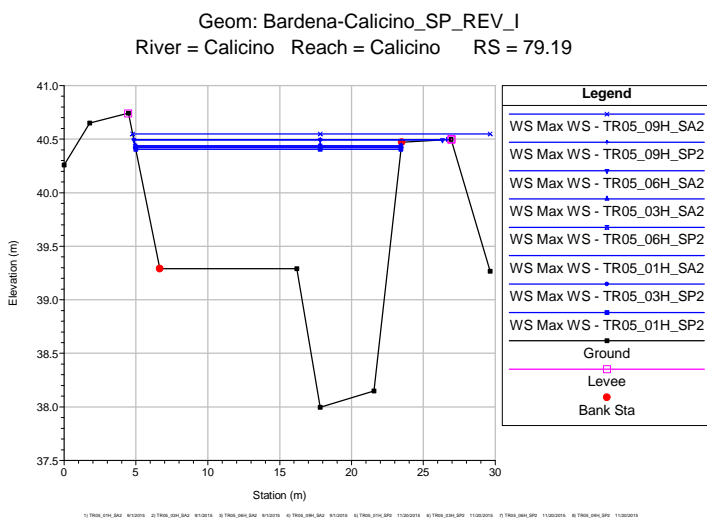
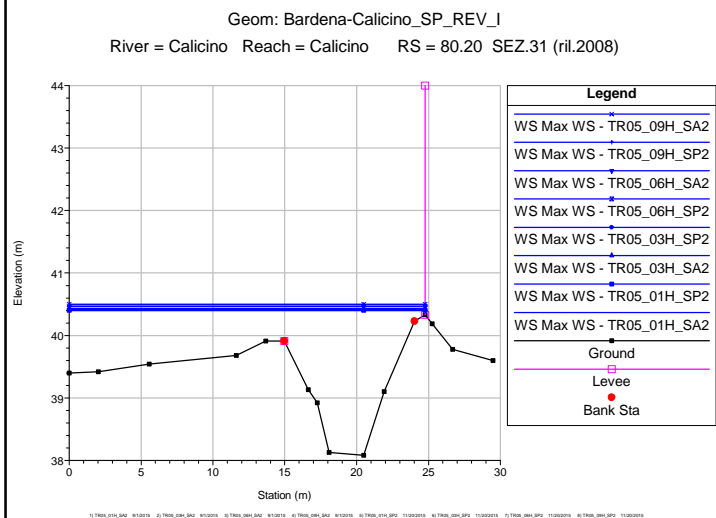
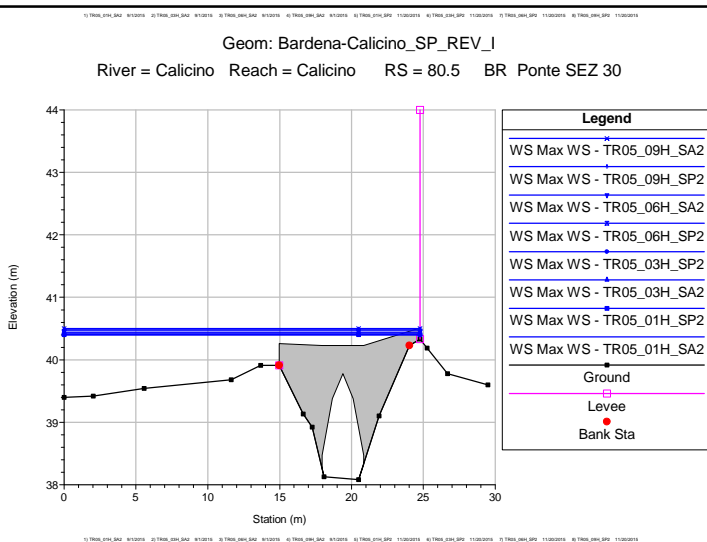
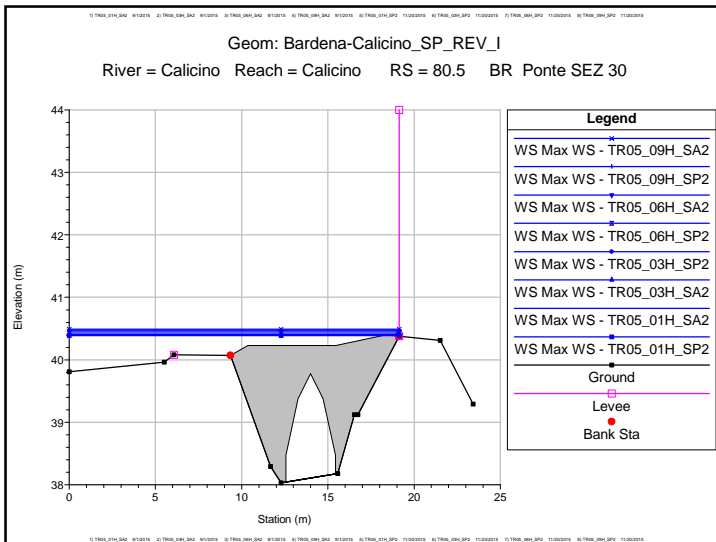


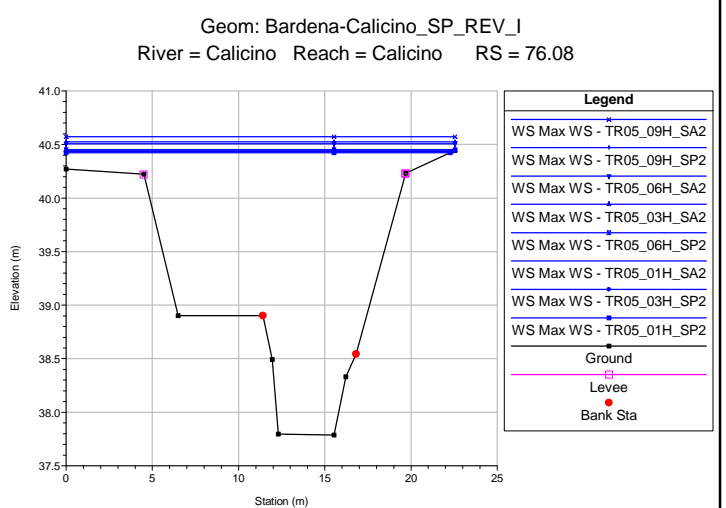
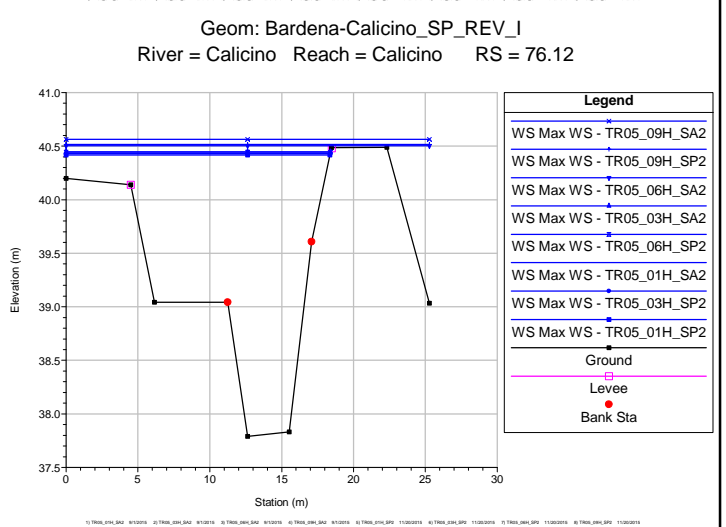
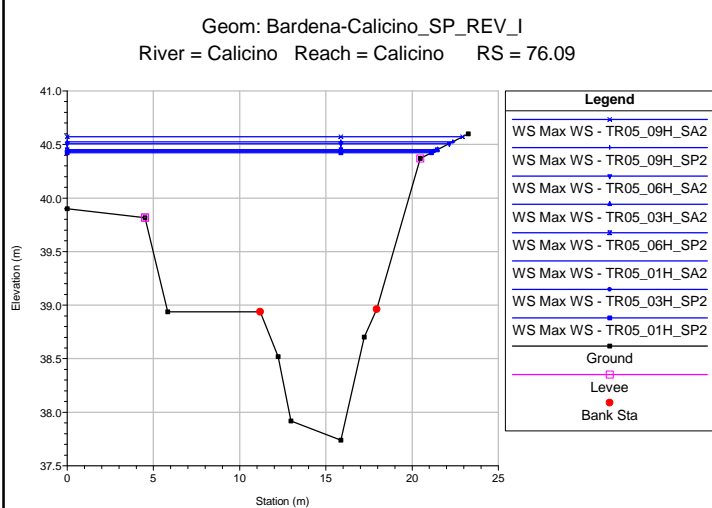
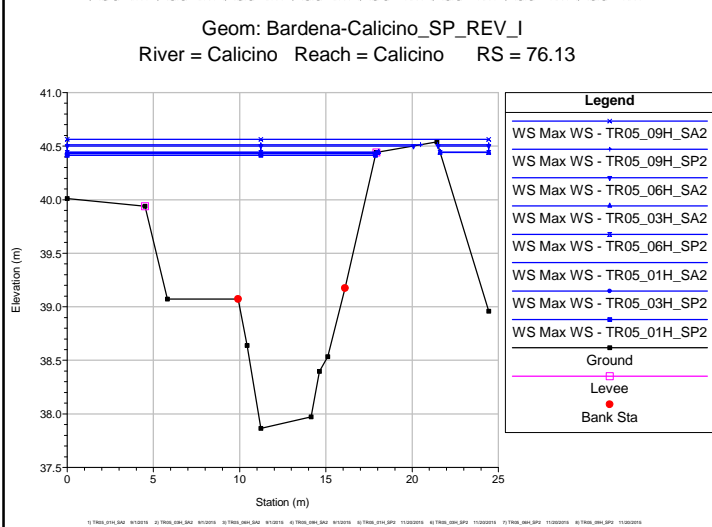


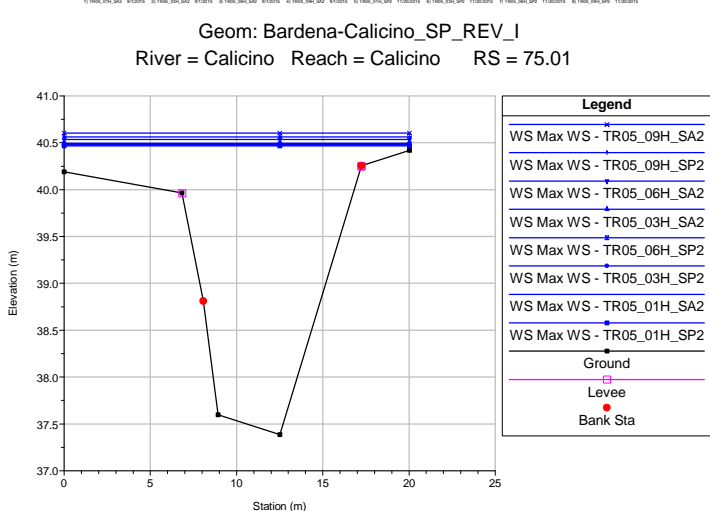
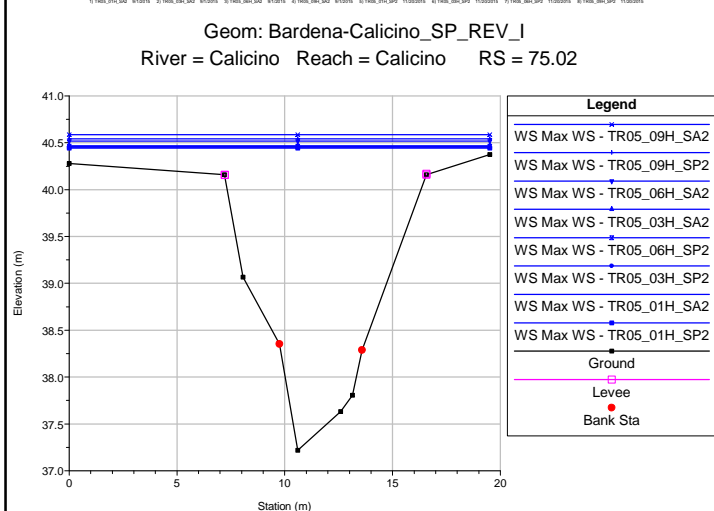


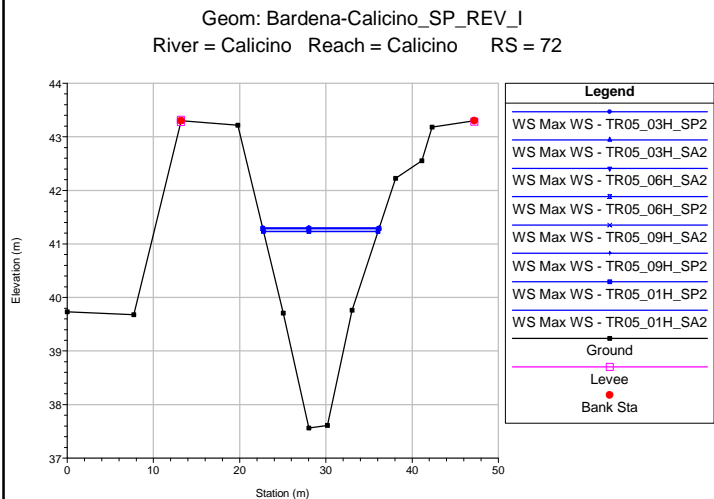
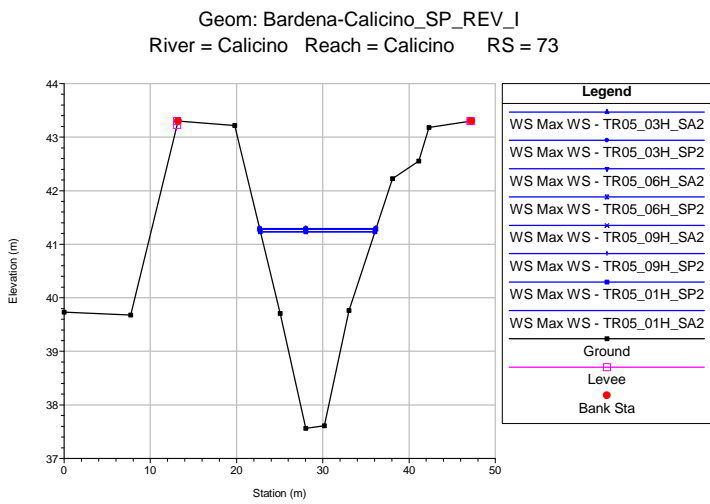
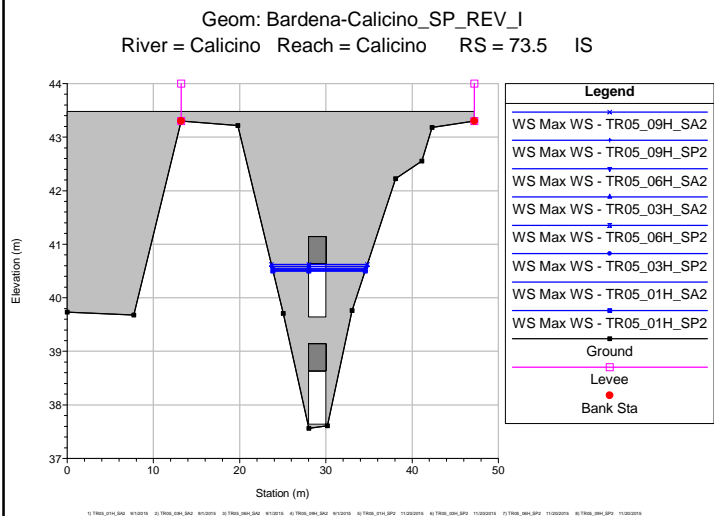
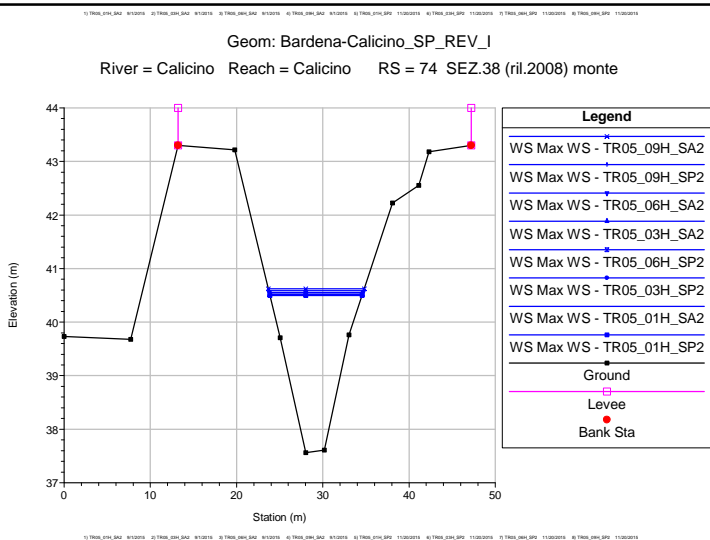
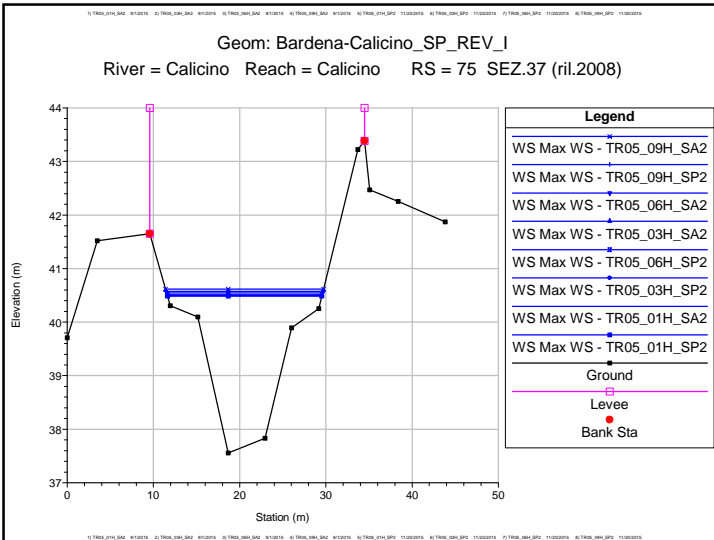












Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Calicino	100	Max WS	TR05_01H_SA2	15.60	40.29	43.08	42.17	43.18	0.003651	1.41	12.30	21.55	0.47
Calicino	100	Max WS	TR05_03H_SA2	13.53	40.29	43.05	42.03	43.13	0.003160	1.29	11.63	21.55	0.44
Calicino	100	Max WS	TR05_06H_SA2	9.03	40.29	42.95	41.68	43.00	0.001982	1.00	9.61	20.53	0.34
Calicino	100	Max WS	TR05_09H_SA2	6.81	40.29	42.74	41.48	42.78	0.001290	0.95	7.18	5.66	0.27
Calicino	100	Max WS	TR05_01H_SP2	15.60	40.29	43.08	42.17	43.18	0.003651	1.41	12.30	21.55	0.47
Calicino	100	Max WS	TR05_03H_SP2	13.53	40.29	43.05	42.03	43.13	0.003160	1.29	11.63	21.55	0.44
Calicino	100	Max WS	TR05_06H_SP2	9.03	40.29	42.95	41.68	43.00	0.001982	1.00	9.61	20.53	0.34
Calicino	100	Max WS	TR05_09H_SP2	6.81	40.29	42.74	41.48	42.78	0.001290	0.95	7.18	5.66	0.27
Calicino	99.9	Max WS	TR05_01H_SA2	15.60	40.29	43.03	42.17	43.17	0.002956	1.67	11.27	21.55	0.42
Calicino	99.9	Max WS	TR05_03H_SA2	13.53	40.29	43.01	42.03	43.12	0.002358	1.48	10.88	21.55	0.37
Calicino	99.9	Max WS	TR05_06H_SA2	9.03	40.29	42.94	41.68	43.00	0.001321	1.07	9.31	20.22	0.28
Calicino	99.9	Max WS	TR05_09H_SA2	6.81	40.29	42.73	41.48	42.78	0.001228	0.95	7.14	5.50	0.26
Calicino	99.9	Max WS	TR05_01H_SP2	15.60	40.29	43.03	42.17	43.17	0.002956	1.67	11.27	21.55	0.42
Calicino	99.9	Max WS	TR05_03H_SP2	13.53	40.29	43.01	42.03	43.12	0.002358	1.48	10.88	21.55	0.37
Calicino	99.9	Max WS	TR05_06H_SP2	9.03	40.29	42.94	41.68	43.00	0.001321	1.07	9.31	20.22	0.28
Calicino	99.9	Max WS	TR05_09H_SP2	6.81	40.29	42.73	41.48	42.78	0.001228	0.95	7.14	5.50	0.26
Calicino	99.5			Lat Struct									
Calicino	99.4			Lat Struct									
Calicino	99	Max WS	TR05_01H_SA2	10.87	40.22	43.02	41.72	43.08	0.001344	1.15	11.93	18.63	0.26
Calicino	99	Max WS	TR05_03H_SA2	10.28	40.22	42.98	41.67	43.04	0.001364	1.15	11.16	18.63	0.27
Calicino	99	Max WS	TR05_06H_SA2	8.91	40.22	42.85	41.57	42.92	0.001511	1.15	8.75	18.63	0.28
Calicino	99	Max WS	TR05_09H_SA2	6.81	40.22	42.65	41.37	42.70	0.001342	1.02	6.69	4.15	0.26
Calicino	99	Max WS	TR05_01H_SP2	10.87	40.22	43.02	41.72	43.08	0.001344	1.15	11.93	18.63	0.26
Calicino	99	Max WS	TR05_03H_SP2	10.28	40.22	42.98	41.67	43.04	0.001364	1.15	11.16	18.63	0.27
Calicino	99	Max WS	TR05_06H_SP2	8.91	40.22	42.85	41.57	42.92	0.001511	1.15	8.75	18.63	0.28
Calicino	99	Max WS	TR05_09H_SP2	6.81	40.22	42.65	41.37	42.70	0.001342	1.02	6.69	4.15	0.26
Calicino	98.5			Bridge									
Calicino	98	Max WS	TR05_01H_SA2	10.87	40.20	42.81	41.74	42.93	0.003114	1.57	7.57	14.19	0.37
Calicino	98	Max WS	TR05_03H_SA2	10.27	40.20	42.79	41.69	42.90	0.002898	1.51	7.34	14.19	0.36
Calicino	98	Max WS	TR05_06H_SA2	8.91	40.20	42.73	41.58	42.82	0.002505	1.37	6.57	6.96	0.33
Calicino	98	Max WS	TR05_09H_SA2	6.81	40.20	42.58	41.38	42.65	0.001845	1.14	5.97	3.64	0.28
Calicino	98	Max WS	TR05_01H_SP2	10.87	40.20	42.81	41.74	42.93	0.003115	1.57	7.57	14.19	0.37
Calicino	98	Max WS	TR05_03H_SP2	10.28	40.20	42.79	41.69	42.90	0.002899	1.51	7.34	14.19	0.36
Calicino	98	Max WS	TR05_06H_SP2	8.91	40.20	42.73	41.58	42.82	0.002505	1.37	6.57	6.96	0.33
Calicino	98	Max WS	TR05_09H_SP2	6.81	40.20	42.58	41.38	42.65	0.001845	1.14	5.97	3.64	0.28
Calicino	97.5			Lat Struct									
Calicino	97.4			Lat Struct									
Calicino	97	Max WS	TR05_01H_SA2	10.36	40.18	42.69	41.64	42.80	0.002803	1.49	7.13	10.82	0.37
Calicino	97	Max WS	TR05_03H_SA2	10.00	40.18	42.67	41.61	42.78	0.002717	1.46	6.93	10.42	0.36
Calicino	97	Max WS	TR05_06H_SA2	8.91	40.18	42.62	41.52	42.71	0.002348	1.34	6.64	4.05	0.33
Calicino	97	Max WS	TR05_09H_SA2	6.81	40.18	42.51	41.33	42.57	0.001638	1.10	6.20	3.93	0.28
Calicino	97	Max WS	TR05_01H_SP2	10.36	40.18	42.69	41.64	42.80	0.002803	1.49	7.13	10.82	0.37
Calicino	97	Max WS	TR05_03H_SP2	10.01	40.18	42.67	41.61	42.78	0.002718	1.46	6.93	10.42	0.36
Calicino	97	Max WS	TR05_06H_SP2	8.91	40.18	42.62	41.52	42.71	0.002348	1.34	6.64	4.05	0.33
Calicino	97	Max WS	TR05_09H_SP2	6.81	40.18	42.51	41.33	42.57	0.001638	1.10	6.20	3.93	0.28
Calicino	96.5			Bridge									
Calicino	96	Max WS	TR05_01H_SA2	10.35	40.16	42.61	41.58	42.71	0.002569	1.45	7.16	4.44	0.36
Calicino	96	Max WS	TR05_03H_SA2	10.00	40.16	42.60	41.56	42.70	0.002436	1.41	7.11	4.43	0.35
Calicino	96	Max WS	TR05_06H_SA2	8.91	40.16	42.57	41.47	42.65	0.002037	1.28	6.97	4.39	0.32
Calicino	96	Max WS	TR05_09H_SA2	6.81	40.16	42.48	41.28	42.54	0.001366	1.03	6.62	4.28	0.26
Calicino	96	Max WS	TR05_01H_SP2	10.35	40.16	42.61	41.58	42.71	0.002568	1.45	7.16	4.44	0.36
Calicino	96	Max WS	TR05_03H_SP2	10.01	40.16	42.60	41.56	42.70	0.002437	1.41	7.11	4.43	0.35
Calicino	96	Max WS	TR05_06H_SP2	8.91	40.16	42.57	41.47	42.65	0.002037	1.28	6.97	4.39	0.32
Calicino	96	Max WS	TR05_09H_SP2	6.81	40.16	42.48	41.28	42.54	0.001366	1.03	6.62	4.28	0.26
Calicino	95.5			Lat Struct									
Calicino	95.4			Lat Struct									
Calicino	95	Max WS	TR05_01H_SA2	7.37	40.10	42.35	41.29	42.39	0.001058	1.02	9.45	13.92	0.24
Calicino	95	Max WS	TR05_03H_SA2	7.31	40.10	42.34	41.28	42.38	0.001063	1.02	9.36	13.90	0.24
Calicino	95	Max WS	TR05_06H_SA2	7.11	40.10	42.32	41.27	42.36	0.001086	1.03	9.03	13.84	0.25
Calicino	95	Max WS	TR05_09H_SA2	6.53	40.10	42.24	41.21	42.29	0.001184	1.04	7.98	13.64	0.26
Calicino	95	Max WS	TR05_01H_SP2	7.37	40.10	42.35	41.29	42.39	0.001058	1.02	9.45	13.92	0.24
Calicino	95	Max WS	TR05_03H_SP2	7.31	40.10	42.34	41.28	42.38	0.001063	1.02	9.36	13.90	0.24
Calicino	95	Max WS	TR05_06H_SP2	7.11	40.10	42.32	41.27	42.36	0.001086	1.03	9.03	13.84	0.25
Calicino	95	Max WS	TR05_09H_SP2	6.53	40.10	42.24	41.21	42.29	0.001184	1.04	7.98	13.64	0.26
Calicino	94	Max WS	TR05_01H_SA2	7.30	40.03	42.29		42.35	0.001484	1.08	6.75	4.57	0.28
Calicino	94	Max WS	TR05_03H_SA2	7.25	40.03	42.29		42.35	0.001478	1.08	6.72	4.56	0.28
Calicino	94	Max WS	TR05_06H_SA2	7.06	40.03	42.26		42.32	0.001461	1.07	6.62	4.53	0.28
Calicino	94	Max WS	TR05_09H_SA2	6.52	40.03	42.19		42.25	0.001422	1.04	6.30	4.43	0.28
Calicino	94	Max WS	TR05_01H_SP2	7.30	40.03	42.29		42.35	0.001484	1.08	6.75	4.57	0.28
Calicino	94	Max WS	TR05_03H_SP2	7.24	40.03	42.29		42.35	0.001477	1.08	6.72	4.56	0.28
Calicino	94	Max WS	TR05_06H_SP2	7.06	40.03	42.26		42.32	0.001462	1.07	6.62	4.53	0.28
Calicino	94	Max WS	TR05_09H_SP2	6.52	40.03	42.19		42.25	0.001422	1.04	6.30	4.43	0.28
Calicino	93.5			Culvert									
Calicino	93	Max WS	TR05_01H_SA2	7.30	40.02	42.23	41.19	42.30	0.001916	1.17	6.26	4.26	0.31
Calicino	93	Max WS	TR05_03H_SA2	7.24	40.02	42.23	41.18	42.30	0.001907	1.16	6.23	4.25	0.31

Reach	River Sta	Profile	Plan	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
Calicino	93	Max WS	TR05_06H_SA2	7.06	40.02	42.21	41.16	42.27	0.001879	1.15	6.15	4.22	0.30
Calicino	93	Max WS	TR05_09H_SA2	6.52	40.02	42.14	41.11	42.20	0.001809	1.11	5.87	4.14	0.30
Calicino	93	Max WS	TR05_01H_SP2	7.17	40.02	42.23	41.17	42.30	0.001843	1.14	6.26	4.26	0.30
Calicino	93	Max WS	TR05_03H_SP2	7.24	40.02	42.23	41.18	42.30	0.001905	1.16	6.23	4.25	0.31
Calicino	93	Max WS	TR05_06H_SP2	7.06	40.02	42.21	41.16	42.27	0.001880	1.15	6.15	4.22	0.30
Calicino	93	Max WS	TR05_09H_SP2	6.52	40.02	42.14	41.11	42.20	0.001809	1.11	5.87	4.14	0.30
Calicino	92.5			Lat Struct									
Calicino	92.4			Lat Struct									
Calicino	92	Max WS	TR05_01H_SA2	7.30	39.93	42.06	41.10	42.13	0.001486	1.20	6.81	6.75	0.29
Calicino	92	Max WS	TR05_03H_SA2	7.24	39.93	42.06	41.09	42.13	0.001481	1.20	6.78	6.73	0.29
Calicino	92	Max WS	TR05_06H_SA2	7.06	39.93	42.04	41.08	42.11	0.001475	1.19	6.65	6.64	0.29
Calicino	92	Max WS	TR05_09H_SA2	6.52	39.93	41.98	41.03	42.04	0.001469	1.15	6.24	6.34	0.29
Calicino	92	Max WS	TR05_01H_SP2	7.30	39.93	42.06	41.10	42.13	0.001486	1.20	6.81	6.75	0.29
Calicino	92	Max WS	TR05_03H_SP2	7.24	39.93	42.06	41.09	42.13	0.001481	1.20	6.78	6.73	0.29
Calicino	92	Max WS	TR05_06H_SP2	7.06	39.93	42.04	41.07	42.11	0.001476	1.19	6.65	6.64	0.29
Calicino	92	Max WS	TR05_09H_SP2	6.52	39.93	41.98	41.03	42.04	0.001469	1.15	6.24	6.34	0.29
Calicino	91.5			Bridge									
Calicino	91	Max WS	TR05_01H_SA2	7.30	39.92	42.04	41.08	42.10	0.001422	1.14	7.81	11.41	0.28
Calicino	91	Max WS	TR05_03H_SA2	7.24	39.92	42.04	41.08	42.09	0.001420	1.14	7.76	11.35	0.28
Calicino	91	Max WS	TR05_06H_SA2	7.06	39.92	42.02	41.07	42.08	0.001424	1.13	7.55	11.09	0.28
Calicino	91	Max WS	TR05_09H_SA2	6.52	39.92	41.96	41.01	42.02	0.001429	1.11	6.96	10.31	0.28
Calicino	91	Max WS	TR05_01H_SP2	7.30	39.92	42.04	41.09	42.10	0.001422	1.14	7.81	11.41	0.28
Calicino	91	Max WS	TR05_03H_SP2	7.24	39.92	42.04	41.08	42.09	0.001420	1.14	7.76	11.35	0.28
Calicino	91	Max WS	TR05_06H_SP2	7.06	39.92	42.02	41.07	42.08	0.001425	1.13	7.55	11.09	0.28
Calicino	91	Max WS	TR05_09H_SP2	6.52	39.92	41.96	41.02	42.02	0.001429	1.11	6.96	10.31	0.28
Calicino	90.5			Lat Struct									
Calicino	90.4			Lat Struct									
Calicino	90	Max WS	TR05_01H_SA2	7.08	39.72	41.68	40.91	41.78	0.002646	1.46	5.13	4.91	0.38
Calicino	90	Max WS	TR05_03H_SA2	7.25	39.72	41.67	40.93	41.78	0.002849	1.51	5.07	4.86	0.39
Calicino	90	Max WS	TR05_06H_SA2	7.06	39.72	41.66	40.91	41.77	0.002775	1.49	5.02	4.82	0.39
Calicino	90	Max WS	TR05_09H_SA2	6.51	39.72	41.63	40.86	41.73	0.002525	1.40	4.89	4.71	0.37
Calicino	90												

Reach	River Sta	Profile	Plan	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
Calicino	86	Max WS	TR05_01H_SA2	4.23	39.35	40.65		40.71	0.002279	1.08	3.92	3.08	0.31
Calicino	86	Max WS	TR05_03H_SA2	4.28	39.35	40.66		40.72	0.002248	1.08	3.97	3.08	0.30
Calicino	86	Max WS	TR05_06H_SA2	4.27	39.35	40.66		40.72	0.002233	1.07	3.98	3.08	0.30
Calicino	86	Max WS	TR05_09H_SA2	4.24	39.35	40.66		40.72	0.002219	1.07	3.97	3.08	0.30
Calicino	86	Max WS	TR05_01H_SP2	3.96	39.35	40.60		40.66	0.002200	1.05	3.78	3.07	0.30
Calicino	86	Max WS	TR05_03H_SP2	4.27	39.35	40.66		40.72	0.002233	1.07	3.98	3.08	0.30
Calicino	86	Max WS	TR05_06H_SP2	4.27	39.35	40.67		40.72	0.002226	1.07	3.98	3.08	0.30
Calicino	86	Max WS	TR05_09H_SP2	4.21	39.35	40.67		40.73	0.002123	1.05	4.01	3.08	0.29
Calicino	85.5			Culvert									
Calicino	85	Max WS	TR05_01H_SA2	4.23	38.84	40.56	39.49	40.58	0.000543	0.63	6.73	5.68	0.18
Calicino	85	Max WS	TR05_03H_SA2	4.28	38.84	40.57	39.50	40.59	0.000538	0.63	6.81	5.70	0.18
Calicino	85	Max WS	TR05_06H_SA2	4.27	38.84	40.57	39.50	40.59	0.000535	0.63	6.82	5.71	0.18
Calicino	85	Max WS	TR05_09H_SA2	4.24	38.84	40.57	39.49	40.59	0.000529	0.62	6.81	5.70	0.18
Calicino	85	Max WS	TR05_01H_SP2	3.92	38.84	40.52	39.47	40.54	0.000503	0.60	6.55	5.61	0.18
Calicino	85	Max WS	TR05_03H_SP2	4.25	38.84	40.57	39.50	40.59	0.000529	0.62	6.83	5.71	0.18
Calicino	85	Max WS	TR05_06H_SP2	4.27	38.84	40.57	39.50	40.59	0.000532	0.62	6.83	5.71	0.18
Calicino	85	Max WS	TR05_09H_SP2	4.21	38.84	40.59	39.49	40.60	0.000505	0.61	6.90	5.73	0.18
Calicino	84.9			Lat Struct									
Calicino	84.89			Lat Struct									
Calicino	84.109			Lat Struct									
Calicino	84	Max WS	TR05_01H_SA2	4.11	38.47	40.43	39.08	40.44	0.000115	0.35	13.98	15.71	0.09
Calicino	84	Max WS	TR05_03H_SA2	4.28	38.47	40.45	39.09	40.45	0.000120	0.36	14.21	15.76	0.10
Calicino	84	Max WS	TR05_06H_SA2	1.00	38.47	40.47	38.73	40.47	0.000006	0.08	14.51	15.82	0.02
Calicino	84	Max WS	TR05_09H_SA2	1.00	38.47	40.50	38.73	40.50	0.000006	0.08	15.00	15.92	0.02
Calicino	84	Max WS	TR05_01H_SP2	3.62	38.47	40.42	39.03	40.42	0.000094	0.31	13.73	15.66	0.09
Calicino	84	Max WS	TR05_03H_SP2	4.25	38.47	40.45	39.09	40.46	0.000118	0.35	14.23	15.76	0.10
Calicino	84	Max WS	TR05_06H_SP2	4.28	38.47	40.45	39.09	40.46	0.000119	0.36	14.23	15.76	0.10
Calicino	84	Max WS	TR05_09H_SP2	1.00	38.47	40.48	38.73	40.48	0.000006	0.08	14.70	15.86	0.02
Calicino	83	Max WS	TR05_01H_SA2	4.09	38.30	40.40	38.94	40.41	0.000230	0.46	8.85	6.20	0.12
Calicino	83	Max WS	TR05_03H_SA2	4.28	38.30	40.41	38.96	40.43	0.000246	0.48	8.92	6.22	0.13
Calicino	83	Max WS	TR05_06H_SA2	0.99	38.30	40.47	38.57	40.47	0.000012	0.11	9.24	6.31	0.03
Calicino	83	Max WS	TR05_09H_SA2	1.00	38.30	40.50	38.57	40.50	0.000012	0.11	9.44	6.37	0.03
Calicino	83	Max WS	TR05_01H_SP2	3.51	38.30	40.39	38.89	40.40	0.000172	0.40	8.79	6.18	0.11
Calicino	83	Max WS	TR05_03H_SP2	4.25	38.30	40.42	38.96	40.43	0.000241	0.48	8.94	6.22	0.13
Calicino	83	Max WS	TR05_06H_SP2	0.99	38.30	40.43	38.58	40.43	0.000013	0.11	9.02	6.25	0.03
Calicino	83	Max WS	TR05_09H_SP2	1.00	38.30	40.48	38.57	40.48	0.000012	0.11	9.32	6.34	0.03
Calicino	82.7			Lat Struct									
Calicino	82.34	Max WS	TR05_01H_SA2	4.09	38.45	40.39	38.99	40.40	0.000102	0.33	13.97	16.11	0.09
Calicino	82.34	Max WS	TR05_03H_SA2	4.27	38.45	40.40	39.00	40.41	0.000108	0.34	14.16	16.12	0.09
Calicino	82.34	Max WS	TR05_06H_SA2	0.99	38.45	40.47	38.70	40.47	0.000005	0.07	15.16	16.20	0.02
Calicino	82.34	Max WS	TR05_09H_SA2	1.00	38.45	40.50	38.70	40.50	0.000005	0.07	15.66	16.24	0.02
Calicino	82.34	Max WS	TR05_01H_SP2	3.35	38.45	40.39	38.93	40.39	0.000070	0.27	13.89	16.10	0.07
Calicino	82.34	Max WS	TR05_03H_SP2	4.25	38.45	40.41	39.00	40.41	0.000106	0.33	14.20	16.13	0.09
Calicino	82.34	Max WS	TR05_06H_SP2	0.99	38.45	40.43	38.70	40.43	0.000005	0.08	14.59	16.16	0.02
Calicino	82.34	Max WS	TR05_09H_SP2	1.00	38.45	40.48	38.70	40.48	0.000005	0.07	15.35	16.22	0.02
Calicino	82.33	Max WS	TR05_01H_SA2	3.30	38.36	40.39	38.90	40.39	0.000073	0.28	13.12	15.18	0.08
Calicino	82.33	Max WS	TR05_03H_SA2	3.63	38.36	40.40	38.93	40.41	0.000086	0.30	13.29	15.20	0.08
Calicino	82.33	Max WS	TR05_06H_SA2	1.30	38.36	40.46	38.72	40.47	0.000009	0.10	14.25	15.31	0.03
Calicino	82.33	Max WS	TR05_09H_SA2	1.53	38.36	40.50	38.74	40.50	0.000012	0.12	14.72	15.36	0.03
Calicino	82.33	Max WS	TR05_01H_SP2	2.75	38.36	40.39	38.86	40.39	0.000051	0.23	13.06	15.17	0.06
Calicino	82.33	Max WS	TR05_03H_SP2	3.60	38.36	40.40	38.93	40.41	0.000084	0.30	13.33	15.20	0.08
Calicino	82.33	Max WS	TR05_06H_SP2	0.94	38.36	40.43	38.67	40.43	0.000005	0.08	13.72	15.25	0.02
Calicino	82.33	Max WS	TR05_09H_SP2	1.25	38.36	40.48	38.71	40.48	0.000008	0.10	14.43	15.33	0.03
Calicino	82.329			Lat Struct									
Calicino	82.32	Max WS	TR05_01H_SA2	3.28	38.40	40.39	38.93	40.39	0.000056	0.25	15.62	18.84	0.07
Calicino	82.32	Max WS	TR05_03H_SA2	3.60	38.40	40.40	38.95	40.40	0.000066	0.27	15.82	18.84	0.07
Calicino	82.32	Max WS	TR05_06H_SA2	1.00	38.40	40.46	38.71	40.46	0.000004	0.07	17.05	18.84	0.02
Calicino	82.32	Max WS	TR05_09H_SA2	0.96	38.40	40.50	38.70	40.50	0.000003	0.07	17.64	18.84	0.02
Calicino	82.32	Max WS	TR05_01H_SP2	2.75	38.40	40.39	38.88	40.39	0.000040	0.21	15.55	18.84	0.06
Calicino	82.32	Max WS	TR05_03H_SP2	3.56	38.40	40.40	38.95	40.41	0.000064	0.27	15.88	18.84	0.07
Calicino	82.32	Max WS	TR05_06H_SP2	0.83	38.40	40.43	38.69	40.43	0.000003	0.06	16.40	18.84	0.02
Calicino	82.32	Max WS	TR05_09H_SP2	0.85	38.40	40.48	38.69	40.48	0.000003	0.06	17.28	18.84	0.02
Calicino	82.31	Max WS	TR05_01H_SA2	2.01	38.34	40.39	38.83	40.39	0.000028	0.17	12.65	16.22	0.05
Calicino	82.31	Max WS	TR05_03H_SA2	2.28	38.34	40.40	38.86	40.40	0.000036	0.20	12.82	16.29	0.05
Calicino	82.31	Max WS	TR05_06H_SA2	0.92	38.34	40.46	38.70	40.46	0.000005	0.07	14.82	19.10	0.02
Calicino	82.31	Max WS	TR05_09H_SA2	0.80	38.34	40.50	38.68	40.50	0.000003	0.06	15.41	19.10	0.02
Calicino	82.31	Max WS	TR05_01H_SP2	1.11	38.34	40.39	38.73	40.39	0.000009	0.10	12.60	16.19	0.03
Calicino	82.31	Max WS	TR05_03H_SP2	2.00	38.34	40.40	38.83	40.41	0.000027	0.17	12.88	16.32	0.05
Calicino	82.31	Max WS	TR05_06H_SP2	0.63	38.34	40.43	38.65	40.43	0.000002	0.05	13.29	16.51	0.01
Calicino	82.31	Max WS	TR05_09H_SP2	0.17	38.34	40.48	38.52	40.48	0.000000	0.01	15.05	19.10	0.00
Calicino	82.309			Lat Struct									
Calicino	82.30	Max WS	TR05_01H_SA2	0.83	38.22	40.39	38.61	40.39	0.000004	0.07	13.67	15.34	0.02
Calicino	82.30	Max WS	TR05_03H_SA2	1.06	38.22	40.40	38.65	40.40	0.000007	0.09	13.83	15.44	0.02
Calicino	82.30	Max WS	TR05_06H_SA2	1.35	38.22	40.46	38.70	40.46	0.000010	0.10	14.79	16.00	0.03
Calicino	82.30	Max WS	TR05_09H_SA2	1.30	38.22	40.49	38.69	40.50	0.000008	0.10	16.13	18.51	0.03
Calicino	82.30	Max WS	TR05_01H_SP2	0.11	38.22	40.39	38.39	40.39	0.000000	0.01	13.61	15.30	0.00
Calicino	82.30	Max WS	TR05_03H_SP2	0.77	38.22	40.41	38.60	40.41	0.000004	0.06	13.88	15.47	0.02

Reach	River Sta	Profile	Plan	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
Calicino	82.30	Max WS	TR05_06H_SP2	0.66	38.22	40.43	38.58	40.43	0.000003	0.05	14.25	15.69	0.01
Calicino	82.30	Max WS	TR05_09H_SP2	0.44	38.22	40.48	38.53	40.48	0.000001	0.03	15.00	16.12	0.01
Calicino	82.29	Max WS	TR05_01H_SA2	0.84	38.34	40.39	38.59	40.39	0.000004	0.06	15.81	16.71	0.02
Calicino	82.29	Max WS	TR05_03H_SA2	1.06	38.34	40.40	38.62	40.40	0.000006	0.08	15.99	16.73	0.02
Calicino	82.29	Max WS	TR05_06H_SA2	1.35	38.34	40.46	38.66	40.46	0.000008	0.09	17.00	16.84	0.02
Calicino	82.29	Max WS	TR05_09H_SA2	1.34	38.34	40.49	38.66	40.50	0.000007	0.09	17.53	16.90	0.02
Calicino	82.29	Max WS	TR05_01H_SP2	0.03	38.34	40.39	38.41	40.39	0.000000	0.00	15.75	16.70	0.00
Calicino	82.29	Max WS	TR05_03H_SP2	0.77	38.34	40.41	38.58	40.41	0.000003	0.05	16.04	16.73	0.02
Calicino	82.29	Max WS	TR05_06H_SP2	0.66	38.34	40.43	38.56	40.43	0.000002	0.05	16.44	16.78	0.01
Calicino	82.29	Max WS	TR05_09H_SP2	0.44	38.34	40.48	38.53	40.48	0.000001	0.03	17.23	16.86	0.01
Calicino	82.289			Lat Struct									
Calicino	82.28	Max WS	TR05_01H_SA2	0.84	38.45	40.39	38.66	40.39	0.000003	0.06	17.75	19.07	0.02
Calicino	82.28	Max WS	TR05_03H_SA2	1.06	38.45	40.40	38.69	40.40	0.000005	0.07	17.95	19.21	0.02
Calicino	82.28	Max WS	TR05_06H_SA2	1.30	38.45	40.46	38.72	40.46	0.000006	0.08	19.14	20.03	0.02
Calicino	82.28	Max WS	TR05_09H_SA2	1.34	38.45	40.49	38.72	40.49	0.000006	0.08	20.57	22.68	0.02
Calicino	82.28	Max WS	TR05_01H_SP2	0.01	38.45	40.39	38.48	40.39	0.000000	0.00	17.69	19.03	0.00
Calicino	82.28	Max WS	TR05_03H_SP2	0.78	38.45	40.41	38.65	40.41	0.000003	0.05	18.02	19.26	0.01
Calicino	82.28	Max WS	TR05_06H_SP2	0.67	38.45	40.43	38.64	40.43	0.000002	0.04	18.47	19.58	0.01
Calicino	82.28	Max WS	TR05_09H_SP2	0.44	38.45	40.48	38.60	40.48	0.000001	0.03	19.41	20.22	0.01
Calicino	82.27	Max WS	TR05_01H_SA2	-0.38	38.32	40.39	38.47	40.39	0.000001	-0.02	17.82	20.82	0.01
Calicino	82.27	Max WS	TR05_03H_SA2	-0.24	38.32	40.40	38.45	40.40	0.000000	-0.02	18.04	20.84	0.00
Calicino	82.27	Max WS	TR05_06H_SA2	1.76	38.32	40.46	38.64	40.46	0.000010	0.11	19.29	21.70	0.03
Calicino	82.27	Max WS	TR05_09H_SA2	2.02	38.32	40.49	38.66	40.49	0.000012	0.12	19.97	22.19	0.03
Calicino	82.27	Max WS	TR05_01H_SP2	-1.23	38.32	40.39	38.58	40.39	0.000006	-0.08	17.74	20.81	0.02
Calicino	82.27	Max WS	TR05_03H_SP2	-0.52	38.32	40.41	38.49	40.41	0.000001	-0.03	18.10	20.85	0.01
Calicino	82.27	Max WS	TR05_06H_SP2	0.73	38.32	40.43	38.52	40.43	0.000002	0.05	18.59	21.17	0.01
Calicino	82.27	Max WS	TR05_09H_SP2	0.80	38.32	40.48	38.53	40.48	0.000002	0.05	19.60	21.92	0.01
Calicino	82.26	Max WS	TR05_01H_SA2	-0.39	38.38	40.39	38.52	40.39	0.000001	-0.03	13.94	12.64	0.01
Calicino	82.26	Max WS	TR05_03H_SA2	-0.24	38.38	40.40	38.50	40.40	0.000000	-0.02	14.09	14.75	0.00
Calicino	82.26	Max WS	TR05_06H_SA2	1.75	38.38	40.46	38.67	40.46	0.000009	0.10	22.10	25.27	0.03
Calicino	82.26	Max WS	TR05_09H_SA2	2.01	38.38	40.49	38.69	40.49	0.000010	0.11	22.88	25.31	0.03
Calicino	82.26	Max WS	TR05_01H_SP2	-1.24	38.38	40.39	38.62	40.39	0.000007	-0.09	13.90	11.96	0.02
Calicino	82.26	Max WS	TR05_03H_SP2	-0.54	38.38	40.41	38.54	40.41	0.000001	-0.04	14.13	15.31	0.01
Calicino	82.26	Max WS	TR05_06H_SP2	0.76	38.38	40.43	38.57	40.43	0.000002	0.04	21.27	25.22	0.01
Calicino	82.26	Max WS	TR05_09H_SP2	0.80	38.38	40.48	38.57	40.48	0.000002	0.04	22.47	25.28	0.01
Calicino	81.25	Max WS	TR05_01H_SA2	-0.75	38.32	40.39	38.52	40.39	0.000000	-0.02	61.74	75.47	0.00
Calicino	81.25	Max WS	TR05_03H_SA2	-0.66	38.32	40.40	38.51	40.40	0.000000	-0.02	62.50	75.47	0.00
Calicino	81.25	Max WS	TR05_06H_SA2	1.44	38.32	40.46	38.59	40.46	0.000001	0.03	66.94	75.47	0.01
Calicino	81.25	Max WS	TR05_09H_SA2	1.50	38.32	40.49	38.60	40.49	0.000001	0.03	69.28	75.47	0.01
Calicino	81.25	Max WS	TR05_01H_SP2	-1.60	38.32	40.39	38.61	40.39	0.000001	-0.04	61.49	75.47	0.01
Calicino	81.25	Max WS	TR05_03H_SP2	-0.93	38.32	40.41	38.54	40.41	0.000000	-0.02	62.70	75.47	0.01
Calicino	81.25	Max WS	TR05_06H_SP2	0.54	38.32	40.43	38.49	40.43	0.000000	0.01	64.48	75.47	0.00
Calicino	81.25	Max WS	TR05_09H_SP2	0.27	38.32	40.48	38.45	40.48	0.000000	0.01	68.04	75.47	0.00
Calicino	81.24	Max WS	TR05_01H_SA2	-1.22	38.32	40.39	38.60	40.39	0.000006	-0.09	16.22	22.27	0.02
Calicino	81.24	Max WS	TR05_03H_SA2	-1.24	38.32	40.40	38.60	40.40	0.000007	-0.09	16.44	22.27	0.02
Calicino	81.24	Max WS	TR05_06H_SA2	0.10	38.32	40.46	38.41	40.46	0.000000	0.01	17.77	22.27	0.00
Calicino	81.24	Max WS	TR05_09H_SA2	-0.36	38.32	40.49	38.47	40.49	0.000000	-0.02	18.47	22.27	0.01
Calicino	81.24	Max WS	TR05_01H_SP2	-2.03	38.32	40.39	38.69	40.39	0.000018	-0.14	16.15	22.27	0.04
Calicino	81.24	Max WS	TR05_03H_SP2	-1.54	38.32	40.41	38.64	40.41	0.000010	-0.11	16.51	22.27	0.03
Calicino	81.24	Max WS	TR05_06H_SP2	-0.36	38.32	40.43	38.47	40.43	0.000001	-0.02	17.03	22.27	0.01
Calicino	81.24	Max WS	TR05_09H_SP2	-1.36	38.32	40.48	38.62	40.48	0.000006	-0.09	18.09	22.27	0.02
Calicino	81.23	Max WS	TR05_01H_SA2	-1.99	38.25	40.39	38.68	40.39	0.000017	-0.14	15.06	19.21	0.04
Calicino	81.23	Max WS	TR05_03H_SA2	-2.16	38.25	40.40	38.69	40.40	0.000020	-0.15	15.25	19.55	0.04
Calicino	81.23	Max WS	TR05_06H_SA2	-1.07	38.25	40.46	38.58	40.46	0.000004	-0.07	16.49	21.68	0.02
Calicino	81.23	Max WS	TR05_09H_SA2	-1.79	38.25	40.49	38.66	40.49	0.000011	-0.12	17.17	22.33	0.03
Calicino	81.23	Max WS	TR05_01H_SP2	-2.77	38.25	40.39	38.75	40.39	0.000034	-0.19	15.01	19.10	0.05
Calicino	81.23	Max WS	TR05_03H_SP2	-2.49	38.25	40.40	38.73	40.41	0.000026	-0.17	15.31	19.66	0.05
Calicino	81.23	Max WS	TR05_06H_SP2	-1.15	38.25	40.43	38.58	40.43	0.000005	-0.08	15.79	20.51	0.02
Calicino	81.23	Max WS	TR05_09H_SP2	-2.84	38.25	40.47	38.76	40.48	0.000028	-0.19	16.77	22.15	0.05
Calicino	81.22	Max WS	TR05_01H_SA2	-2.65	38.14	40.39	38.64	40.39	0.000037	-0.21	14.95	16.13	0.05
Calicino	81.22	Max WS	TR05_03H_SA2	-2.95	38.14	40.40	38.67	40.40	0.000045	-0.23	15.09	16.13	0.06
Calicino	81.22	Max WS	TR05_06H_SA2	-2.78	38.14	40.46	38.66	40.46	0.000035	-0.20	16.04	16.13	0.05
Calicino	81.22	Max WS	TR05_09H_SA2	-4.05	38.14	40.49	38.77	40.49	0.000069	-0.29	16.51	16.13	0.07
Calicino	81.22	Max WS	TR05_01H_SP2	-3.41	38.14	40.39	38.72	40.39	0.000062	-0.27	14.90	16.13	0.07
Calicino	81.22	Max WS	TR05_03H_SP2	-3.32	38.14	40.40	38.71	40.41	0.000057	-0.26	15.14	16.13	0.06
Calicino	81.22	Max WS	TR05_06H_SP2	-2.24	38.14	40.43	38.60	40.43	0.000024	-0.17	15.52	16.13	0.04
Calicino	81.22	Max WS	TR05_09H_SP2	-4.77	38.14	40.47	38.83	40.48	0.000100	-0.35	16.22	16.13	0.08
Calicino	81.21	Max WS	TR05_01H_SA2	-4.47	38.03	40.39		40.39	0.000058	-0.27	19.21	19.14	0.07
Calicino	81.21	Max WS	TR05_03H_SA2	-5.02	38.03	40.40		40.40	0.000071	-0.30	19.38	19.14	0.08
Calicino	81.21	Max WS	TR05_06H_SA2	-5.04	38.03	40.46		40.46	0.000062	-0.28	20.49	19.14	0.07
Calicino	81.21	Max WS	TR05_09H_SA2	-7.01	38.03	40.49		40.49	0.000112	-0.38	21.05	19.14	0.10
Calicino	81.21	Max WS	TR05_01H_SP2	-5.21	38.03	40.39		40.39	0.000079	-0.31	19.18	19.14	0.08
Calicino	81.21	Max WS	TR05_03H_SP2	-5.48	38.03	40.40		40.41	0.000084	-0.32	19.45	19.14	0.08
Calicino	81.21	Max WS	TR05_06H_SP2	-3.85	38.03	40.43		40.43	0.000039	-0.22	19.88	19.14	0.06
Calicino	81.21	Max WS	TR05_09H_SP2	-7.44	38.03	40.47		40.48	0.000131	-0.41	20.75	19.14	0.10
Calicino	80.5			Bridge									
Calicino	80.20	Max WS	TR05_01H_SA2	-4.58	38.08	40.40	38.74	40.40	0.000041	-0.22	25.52	24.76	0.06
Calicino	80.20	Max WS	TR05_03H_SA2	-5.02	38.08	40.41	38.78	40.41	0.000048	-0.24	25.78	24.76	0.06
Calicino	80.20	Max WS	TR05_06H_SA2	-5.14	38.08	40.47	38.79	40.47	0.000043	-0.23	27.17	24.76	0.06
Calicino	80.20	Max WS	TR05_09H_SA2	-7.18	38.08	40.50	38.94	40.51	0.000077	-0.32	28.04	24.76	0.08

Reach	River Sta	Profile	Plan	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
Calicino	80.20	Max WS	TR05_01H_SP2	-5.24	38.08	40.40	38.80	40.40	0.000054	-0.25	25.56	24.76	0.07
Calicino	80.20	Max WS	TR05_03H_SP2	-5.48	38.08	40.42	38.82	40.42	0.000057	-0.26	25.91	24.76	0.07
Calicino	80.20	Max WS	TR05_06H_SP2	-4.65	38.08	40.43	38.75	40.43	0.000039	-0.22	26.35	24.76	0.06
Calicino	80.20	Max WS	TR05_09H_SP2	-7.62	38.08	40.49	38.97	40.49	0.000090	-0.34	27.72	24.76	0.09
Calicino	80	Max WS	TR05_01H_SA2	-4.64	38.62	40.40	39.20	40.42	0.000236	-0.46	10.10	8.31	0.13
Calicino	80	Max WS	TR05_03H_SA2	-5.03	38.62	40.42	39.23	40.43	0.000270	-0.49	10.20	8.33	0.14
Calicino	80	Max WS	TR05_06H_SA2	-5.17	38.62	40.47	39.24	40.48	0.000252	-0.48	10.66	8.43	0.14
Calicino	80	Max WS	TR05_09H_SA2	-7.18	38.62	40.51	39.37	40.53	0.000446	-0.65	10.99	8.49	0.18
Calicino	79.9			Lat Struct									
Calicino	79.89			Lat Struct									
Calicino	79.19	Max WS	TR05_01H_SA2	-4.74	38.00	40.43	38.59	40.43	0.000030	-0.19	25.64	18.50	0.05
Calicino	79.19	Max WS	TR05_03H_SA2	-5.02	38.00	40.44	38.61	40.44	0.000032	-0.20	25.88	18.53	0.05
Calicino	79.19	Max WS	TR05_06H_SA2	-5.45	38.00	40.49	38.64	40.50	0.000034	-0.21	26.93	21.50	0.05
Calicino	79.19	Max WS	TR05_09H_SA2	-7.19	38.00	40.55	38.74	40.55	0.000050	-0.26	29.92	24.86	0.07
Calicino	79.19	Max WS	TR05_01H_SP2	-5.30	38.00	40.41	38.63	40.41	0.000039	-0.21	25.27	18.45	0.06
Calicino	79.19	Max WS	TR05_03H_SP2	-5.48	38.00	40.42	38.64	40.42	0.000040	-0.22	25.54	18.48	0.06
Calicino	79.19	Max WS	TR05_06H_SP2	-4.67	38.00	40.44	38.58	40.44	0.000028	-0.18	25.83	18.52	0.05
Calicino	79.19	Max WS	TR05_09H_SP2	-7.64	38.00	40.50	38.77	40.50	0.000066	-0.29	26.98	21.77	0.07
Calicino	79.18	Max WS	TR05_01H_SA2	-4.76	38.02	40.43	38.58	40.43	0.000050	-0.29	19.79	13.75	0.06
Calicino	79.18	Max WS	TR05_03H_SA2	-5.02	38.02	40.44	38.60	40.44	0.000055	-0.30	19.97	14.16	0.07
Calicino	79.18	Max WS	TR05_06H_SA2	-5.44	38.02	40.49	38.63	40.50	0.000061	-0.33	20.87	18.72	0.07
Calicino	79.18	Max WS	TR05_09H_SA2	-7.19	38.02	40.55	38.74	40.55	0.000095	-0.41	23.62	23.31	0.09
Calicino	79.18	Max WS	TR05_01H_SP2	-5.30	38.02	40.41	38.62	40.41	0.000065	-0.33	19.52	13.69	0.07
Calicino	79.18	Max WS	TR05_03H_SP2	-5.48	38.02	40.42	38.63	40.42	0.000067	-0.34	19.72	13.74	0.07
Calicino	79.18	Max WS	TR05_06H_SP2	-4.67	38.02	40.44	38.57	40.44	0.000047	-0.28	19.93	14.01	0.06
Calicino	79.18	Max WS	TR05_09H_SP2	-7.64	38.02	40.50	38.77	40.50	0.000120	-0.46	20.91	18.90	0.10
Calicino	78.17	Max WS	TR05_01H_SA2	-4.76	38.14	40.43	38.72	40.43	0.000038	-0.23	24.26	17.82	0.06
Calicino	78.17	Max WS	TR05_03H_SA2	-5.02	38.14	40.44	38.74	40.44	0.000043	-0.24	24.50	18.98	0.06
Calicino	78.17	Max WS	TR05_06H_SA2	-5.49	38.14	40.50	38.77	40.50	0.000050	-0.27	25.75	24.40	0.06
Calicino	78.17	Max WS	TR05_09H_SA2	-7.23	38.14	40.55	38.89	40.56	0.000071	-0.33	29.41	28.84	0.08
Calicino	78.17	Max WS	TR05_01H_SP2	-5.40	38.14	40.41	38.77	40.41	0.000051	-0.26	23.93	17.77	0.06
Calicino	78.17	Max WS	TR05_03H_SP2	-5.48	38.14	40.42	38.77	40.43	0.000050	-0.26	24.19	17.81	0.06
Calicino	78.17	Max WS	TR05_06H_SP2	-4.68	38.14	40.44	38.71	40.44	0.000036	-0.22	24.45	17.85	0.05
Calicino	78.17	Max WS	TR05_09H_SP2	-7.63	38.14	40.50	38.91	40.51	0.000096	-0.37	25.89	24.91	0.09
Calicino	78.16	Max WS	TR05_01H_SA2	-4.76	38.13	40.43	38.74	40.43	0.000043	-0.27	21.16	15.20	0.06
Calicino	78.16	Max WS	TR05_03H_SA2	-5.02	38.13	40.44	38.76	40.45	0.000044	-0.28	23.23	19.81	0.06
Calicino	78.16	Max WS	TR05_06H_SA2	-5.50	38.13	40.50	38.79	40.50	0.000051	-0.30	24.46	23.23	0.07
Calicino	78.16	Max WS	TR05_09H_SA2	-7.23	38.13	40.56	38.91	40.56	0.000082	-0.39	25.85	25.22	0.09
Calicino	78.16	Max WS	TR05_01H_SP2	-5.40	38.13	40.41	38.79	40.41	0.000058	-0.31	20.88	15.14	0.07
Calicino	78.16	Max WS	TR05_03H_SP2	-5.48	38.13	40.43	38.79	40.43	0.000058	-0.31	21.09	15.19	0.07
Calicino	78.16	Max WS	TR05_06H_SP2	-4.68	38.13	40.44	38.74	40.44	0.000041	-0.27	21.31	15.24	0.06
Calicino	78.16	Max WS	TR05_09H_SP2	-7.63	38.13	40.50	38.93	40.51	0.000097	-0.42	24.62	23.47	0.09
Calicino	77	Max WS	TR05_01H_SA2	-4.76	37.88	40.43	38.48	40.43	0.000040	-0.26	22.72	17.86	0.06
Calicino	77	Max WS	TR05_03H_SA2	-5.02	37.88	40.44	38.50	40.45	0.000043	-0.27	22.96	17.88	0.06
Calicino	77	Max WS	TR05_06H_SA2	-5.50	37.88	40.50	38.54	40.50	0.000046	-0.28	23.95	17.98	0.06
Calicino	77	Max WS	TR05_09H_SA2	-7.23	37.88	40.56	38.66	40.56	0.000070	-0.35	25.46	22.81	0.08
Calicino	77	Max WS	TR05_01H_SP2	-5.39	37.88	40.41	38.53	40.42	0.000053	-0.29	22.40	17.83	0.07
Calicino	77	Max WS	TR05_03H_SP2	-5.48	37.88	40.43	38.54	40.43	0.000053	-0.30	22.65	17.85	0.07
Calicino	77	Max WS	TR05_06H_SP2	-4.68	37.88	40.44	38.48	40.44	0.000038	-0.25	22.89	17.88	0.06
Calicino	77	Max WS	TR05_09H_SP2	-7.63	37.88	40.51	38.67	40.51	0.000087	-0.39	24.10	17.99	0.08
Calicino	76.99			Lat Struct									
Calicino	76.98			Lat Struct									
Calicino	76.55			Lat Struct									
Calicino	76.15	Max WS	TR05_01H_SA2	-5.24	37.88	40.43	38.52	40.43	0.000053	-0.33	22.17	17.85	0.07
Calicino	76.15	Max WS	TR05_03H_SA2	-5.54	37.88	40.44	38.54	40.45	0.000058	-0.34	22.41	17.88	0.07
Calicino	76.15	Max WS	TR05_06H_SA2	-5.81	37.88	40.50	38.56	40.50	0.000057	-0.35	23.41	17.97	0.07
Calicino	76.15	Max WS	TR05_09H_SA2	-7.44	37.88	40.56	38.67	40.56	0.000086	-0.43	24.91	22.81	0.09
Calicino	76.15	Max WS	TR05_01H_SP2	-5.84	37.88	40.41	38.56	40.42	0.000068	-0.37	21.85	17.82	0.08
Calicino	76.15	Max WS	TR05_03H_SP2	-5.96	37.88	40.43	38.57	40.43	0.000069	-0.37	22.10	17.85	0.08
Calicino	76.15	Max WS	TR05_06H_SP2	-4.77	37.88	40.44	38.49	40.44	0.000043	-0.30	22.36	17.87	0.06
Calicino	76.15	Max WS	TR05_09H_SP2	-7.79	37.88	40.51	38.69	40.52	0.000100	-0.46	23.56	17.99	0.09
Calicino	76.14	Max WS	TR05_01H_SA2	-5.24	37.81	40.43	38.53	40.44	0.000062	-0.35	18.36	15.28	0.08
Calicino	76.14	Max WS	TR05_03H_SA2	-5.54	37.81	40.44	38.55	40.45	0.000067	-0.37	18.56	15.31	0.08
Calicino	76.14	Max WS	TR05_06H_SA2	-5.82	37.81	40.50	38.57	40.51	0.000067	-0.38	19.42	15.40	0.08
Calicino	76.14	Max WS	TR05_09H_SA2	-7.44	37.81	40.56	38.68	40.57	0.000095	-0.46	22.53	21.79	0.09
Calicino	76.14	Max WS	TR05_01H_SP2	-5.84	37.81	40.41	38.57	40.42	0.000079	-0.40	18.09	15.25	0.09
Calicino	76.14	Max WS	TR05_03H_SP2	-5.96	37.81	40.43	38.58	40.43	0.000081	-0.40	18.30	15.28	0.09
Calicino	76.14	Max WS	TR05_06H_SP2	-4.81	37.81	40.44	38.50	40.45	0.000051	-0.32	18.52	15.30	0.07
Calicino	76.14	Max WS	TR05_09H_SP2	-7.79	37.81	40.51	38.70	40.52	0.000118	-0.50	19.56	15.42	0.10
Calicino	76.13	Max WS	TR05_01H_SA2	-6.40	37.87	40.43	38.64	40.44	0.000067	-0.36	23.44	17.90	0.08
Calicino	76.13	Max WS	TR05_03H_SA2	-6.74	37.87	40.44	38.66	40.45	0.000067	-0.36	25.78	20.89	0.08
Calicino	76.13	Max WS	TR05_06H_SA2	-6.32	37.87	40.50	38.63	40.51	0.000053	-0.33	27.05	23.01	0.07
Calicino	76.13	Max WS	TR05_09H_SA2	-7.96	37.87	40.56	38.74	40.57	0.000075	-0.40	28.49	24.44	0.08
Calicino	76.13	Max WS	TR05_01H_SP2	-6.94	37.87	40.41	38.68	40.42	0.000081	-0.39	23.14	17.88	0.09
Calicino	76.13	Max WS	TR05_03H_SP2	-7.11	37.87	40.43	38.69	40.43	0.000083	-0.40	23.39	17.90	0.09
Calicino	76.13	Max WS	TR05_06H_SP2	-6.63	37.87	40.44	38.65	40.45	0.000065	-0.36	25.74	20.82	0.08
Calicino	76.13	Max WS	TR05_09H_SP2	-8.24	37.87	40.51	38.75	40.52	0.000088	-0.42	27.32	23.43	0.09

Reach	River Sta	Profile	Plan	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
Calicino	76.12	Max WS	TR05_01H_SA2	-6.48	37.79	40.43	38.54	40.44	0.000074	-0.37	23.23	18.38	0.08
Calicino	76.12	Max WS	TR05_03H_SA2	-6.74	37.79	40.45	38.56	40.45	0.000078	-0.38	23.48	18.40	0.08
Calicino	76.12	Max WS	TR05_06H_SA2	-6.31	37.79	40.50	38.53	40.51	0.000058	-0.33	26.80	25.28	0.07
Calicino	76.12	Max WS	TR05_09H_SA2	-7.96	37.79	40.56	38.64	40.57	0.000081	-0.40	28.33	25.28	0.08
Calicino	76.12	Max WS	TR05_01H_SP2	-6.93	37.79	40.42	38.57	40.42	0.000088	-0.40	22.93	18.36	0.09
Calicino	76.12	Max WS	TR05_03H_SP2	-7.11	37.79	40.43	38.58	40.44	0.000090	-0.41	23.19	18.38	0.09
Calicino	76.12	Max WS	TR05_06H_SP2	-6.64	37.79	40.44	38.56	40.45	0.000076	-0.37	23.45	18.40	0.08
Calicino	76.12	Max WS	TR05_09H_SP2	-8.24	37.79	40.52	38.66	40.52	0.000096	-0.43	27.12	25.28	0.09
Calicino	76.11	Max WS	TR05_01H_SA2	-6.48	37.70	40.44	38.58	40.44	0.000076	-0.34	23.35	18.31	0.08
Calicino	76.11	Max WS	TR05_03H_SA2	-6.74	37.70	40.45	38.60	40.45	0.000080	-0.35	23.61	18.55	0.08
Calicino	76.11	Max WS	TR05_06H_SA2	-6.30	37.70	40.51	38.57	40.51	0.000062	-0.32	24.67	19.55	0.07
Calicino	76.11	Max WS	TR05_09H_SA2	-7.96	37.70	40.57	38.69	40.57	0.000087	-0.38	25.92	20.64	0.09
Calicino	76.11	Max WS	TR05_01H_SP2	-6.93	37.70	40.42	38.61	40.43	0.000090	-0.37	23.06	18.03	0.09
Calicino	76.11	Max WS	TR05_03H_SP2	-7.11	37.70	40.43	38.62	40.44	0.000092	-0.38	23.31	18.27	0.09
Calicino	76.11	Max WS	TR05_06H_SP2	-6.65	37.70	40.45	38.59	40.45	0.000078	-0.35	23.56	18.51	0.08
Calicino	76.11	Max WS	TR05_09H_SP2	-8.25	37.70	40.52	38.71	40.53	0.000104	-0.41	24.96	19.80	0.09
Calicino	76.10	Max WS	TR05_01H_SA2	-7.72	37.52	40.43	38.42	40.44	0.000087	-0.43	22.24	19.04	0.09
Calicino	76.10	Max WS	TR05_03H_SA2	-8.03	37.52	40.45	38.43	40.46	0.000092	-0.44	22.49	19.04	0.09
Calicino	76.10	Max WS	TR05_06H_SA2	-6.76	37.52	40.50	38.36	40.51	0.000058	-0.36	23.60	19.04	0.07
Calicino	76.10	Max WS	TR05_09H_SA2	-8.61	37.52	40.57	38.47	40.57	0.000084	-0.44	24.77	19.04	0.09
Calicino	76.10	Max WS	TR05_01H_SP2	-8.12	37.52	40.42	38.44	40.43	0.000099	-0.46	21.94	18.76	0.09
Calicino	76.10	Max WS	TR05_03H_SP2	-8.35	37.52	40.43	38.45	40.44	0.000102	-0.46	22.20	19.04	0.10
Calicino	76.10	Max WS	TR05_06H_SP2	-7.33	37.52	40.45	38.39	40.45	0.000076	-0.40	22.49	19.04	0.08
Calicino	76.10	Max WS	TR05_09H_SP2	-8.83	37.52	40.52	38.48	40.53	0.000097	-0.46	23.88	19.04	0.09
Calicino	76.09	Max WS	TR05_01H_SA2	-7.73	37.74	40.44	38.62	40.44	0.000060	-0.36	29.18	21.30	0.08
Calicino	76.09	Max WS	TR05_03H_SA2	-8.03	37.74	40.45	38.64	40.46	0.000064	-0.37	29.47	21.47	0.08
Calicino	76.09	Max WS	TR05_06H_SA2	-7.32	37.74	40.51	38.59	40.51	0.000048	-0.32	30.70	22.15	0.07
Calicino	76.09	Max WS	TR05_09H_SA2	-8.61	37.74	40.57	38.67	40.58	0.000059	-0.37	32.13	22.92	0.08
Calicino	76.09	Max WS	TR05_01H_SP2	-8.15	37.74	40.42	38.65	40.43	0.000069	-0.38	28.86	21.12	0.08
Calicino	76.09	Max WS	TR05_03H_SP2	-8.35	37.74	40.44	38.66	40.44	0.000071	-0.39	29.15	21.29	0.08
Calicino	76.09	Max WS	TR05_06H_SP2	-7.33	37.74	40.45	38.59	40.45	0.000053	-0.34	29.44	21.45	0.07
Calicino	76.09	Max WS	TR05_09H_SP2	-8.84	37.74	40.52	38.69	40.53	0.000067	-0.39	31.08	22.36	0.08
Calicino	76.08	Max WS	TR05_01H_SA2	-8.95	37.79	40.44	38.64	40.45	0.000106	-0.49	26.58	22.47	0.10
Calicino	76.08	Max WS	TR05_03H_SA2	-9.22	37.79	40.45	38.66	40.46	0.000110	-0.49	26.88	22.55	0.10
Calicino	76.08	Max WS	TR05_06H_SA2	-8.06	37.79	40.51	38.59	40.51	0.000074	-0.41	28.17	22.55	0.08
Calicino	76.08	Max WS	TR05_09H_SA2	-9.24	37.79	40.57	38.66	40.58	0.000086	-0.45	29.61	22.55	0.09
Calicino	76.08	Max WS	TR05_01H_SP2	-9.20	37.79	40.42	38.66	40.43	0.000116	-0.50	26.24	22.26	0.10
Calicino	76.08	Max WS	TR05_03H_SP2	-9.49	37.79	40.44	38.67	40.45	0.000120	-0.52	26.54	22.45	0.11
Calicino	76.08	Max WS	TR05_06H_SP2	-8.02	37.79	40.45	38.59	40.46	0.000083	-0.43	26.87	22.55	0.09
Calicino	76.08	Max WS	TR05_09H_SP2	-9.52	37.79	40.53	38.67	40.53	0.000100	-0.48	28.56	22.55	0.10
Calicino	76.07	Max WS	TR05_01H_SA2	-10.13	37.74	40.44	38.61	40.45	0.000112	-0.50	26.67	19.83	0.10
Calicino	76.07	Max WS	TR05_03H_SA2	-10.53	37.74	40.45	38.63	40.46	0.000118	-0.52	26.93	20.01	0.11
Calicino	76.07	Max WS	TR05_06H_SA2	-8.85	37.74	40.51	38.54	40.52	0.000076	-0.42	28.11	20.76	0.09
Calicino	76.07	Max WS	TR05_09H_SA2	-9.95	37.74	40.57	38.60	40.58	0.000085	-0.45	29.44	20.76	0.09
Calicino	76.07	Max WS	TR05_01H_SP2	-10.40	37.74	40.42	38.62	40.43	0.000122	-0.52	26.37	19.62	0.11
Calicino	76.07	Max WS	TR05_03H_SP2	-10.73	37.74	40.44	38.64	40.45	0.000126	-0.53	26.65	19.81	0.11
Calicino	76.07	Max WS	TR05_06H_SP2	-8.76	37.74	40.45	38.54	40.46	0.000082	-0.43	26.94	20.01	0.09
Calicino	76.07	Max WS	TR05_09H_SP2	-10.27	37.74	40.53	38.62	40.54	0.000098	-0.48	28.49	20.76	0.10
Calicino	76.06	Max WS	TR05_01H_SA2	-10.13	37.55	40.44	38.73	40.45	0.000216	-0.60	20.30	18.34	0.14
Calicino	76.06	Max WS	TR05_03H_SA2	-10.53	37.55	40.45	38.75	40.47	0.000227	-0.62	20.53	18.34	0.14
Calicino	76.06	Max WS	TR05_06H_SA2	-8.85	37.55	40.51	38.66	40.52	0.000142	-0.50	21.59	18.34	0.11
Calicino	76.06	Max WS	TR05_09H_SA2	-9.95	37.55	40.57	38.72	40.58	0.000158	-0.53	22.76	18.34	0.12
Calicino	76.06	Max WS	TR05_01H_SP2	-10.40	37.55	40.42	38.75	40.44	0.000235	-0.62	20.03	18.34	0.14
Calicino	76.06	Max WS	TR05_03H_SP2	-10.73	37.55	40.44	38.77	40.45	0.000243	-0.64	20.27	18.34	0.14
Calicino	76.06	Max WS	TR05_06H_SP2	-8.76	37.55	40.45	38.65	40.46	0.000157	-0.51	20.55	18.34	0.12
Calicino	76.06	Max WS	TR05_09H_SP2	-10.28	37.55	40.52	38.74	40.54	0.000185	-0.57	21.92	18.34	0.13
Calicino	76.05	Max WS	TR05_01H_SA2	-11.33	37.53	40.44	38.58	40.46	0.000177	-0.65	23.85	18.71	0.13
Calicino	76.05	Max WS	TR05_03H_SA2	-11.73	37.53	40.45	38.60	40.47	0.000185	-0.67	24.10	18.83	0.13
Calicino	76.05	Max WS	TR05_06H_SA2	-9.63	37.53	40.51	38.48	40.52	0.000112	-0.53	25.17	18.83	0.10
Calicino	76.05	Max WS	TR05_09H_SA2	-10.75	37.53	40.58	38.55	40.59	0.000124	-0.56	26.40	18.83	0.11
Calicino	76.05	Max WS	TR05_01H_SP2	-11.51	37.53	40.43	38.59	40.45	0.000187	-0.66	23.58	18.44	0.13
Calicino	76.05	Max WS	TR05_03H_SP2	-11.88	37.53	40.44	38.61	40.46	0.000194	-0.68	23.83	18.69	0.13
Calicino	76.05	Max WS	TR05_06H_SP2	-9.49	37.53	40.45	38.47	40.47	0.000121	-0.54	24.10	18.83	0.11
Calicino	76.05	Max WS	TR05_09H_SP2	-11.03	37.53	40.53	38.57	40.55	0.000142	-0.60	25.55	18.83	0.12
Calicino	76	Max WS	TR05_01H_SA2	-11.33	37.91	40.43	39.05	40.46	0.000520	-0.74	15.35	11.39	0.20
Calicino	76	Max WS	TR05_03H_SA2	-11.73	37.91	40.45	39.07	40.47	0.000544	-0.76	15.49	11.45	0.21
Calicino	76	Max WS	TR05_06H_SA2	-9.63	37.91	40.51	38.96	40.52	0.000326	-0.59	16.20	11.73	0.16
Calicino	76	Max WS	TR05_09H_SA2	-10.75	37.91	40.57	39.02	40.59	0.000385	-0.63	16.97	12.72	0.18
Calicino	76	Max WS	TR05_01H_SP2	-11.51	37.91	40.42	39.06	40.45	0.000552	-0.76	15.18	11.32	0.21
Calicino	76	Max WS	TR05_03H_SP2	-11.88	37.91	40.43	39.08	40.46	0.000574	-0.77	15.33	11.38	0.21
Calicino	76	Max WS	TR05_06H_SP2	-9.49	37.91	40.45	38.95	40.47	0.000353	-0.61	15.54	11.46	0.17
Calicino	76	Max WS	TR05_09H_SP2	-11.03	37.91	40.52	39.04	40.55	0.000413	-0.67	16.41	11.81	0.18
Calicino	75.99			Lat Struct									
Calicino	75.04	Max WS	TR05_01H_SA2	-11.39	37.51	40.45	38.66	40.47	0.000202	-0.70	21.95	17.92	0.14
Calicino	75.04	Max WS	TR05_03H_SA2	-11.72	37.51	40.47	38.68	40.49	0.000210	-0.72	22.19	18.15	0.14
Calicino	75.04	Max WS	TR05_06H_SA2	-9.64	37.51	40.52	38.57	40.53	0.000130	-0.57	23.16	19.00	0.11
Calicino	75.04	Max WS	TR05_09H_SA2	-10.76	37.51	40.59	38.63	40.60	0.000143	-0.61	24.42	19.01	0.12
Calicino	75.04	Max WS	TR05_01H_SP2	-11.52	37.51	40.44	38.67	40.46	0.000211	-0.72	21.71	17.71	0.14
Calicino	75.04	Max WS	TR05_03H_SP2	-11.88	37.51	40.45	38.68	40.48	0.000220	-0.73	21.96	17.93	0.15
Calicino	75.04	Max WS	TR05_06H_SP2	-9.53	37.51	40.46	38.56	40.48	0.000139	-0.59	22.12	18.08	0.12
Calicino	75.04	Max WS	TR05_09H_SP2	-11.04	37.51	40.54	38.64	40.56	0.000164	-0.65	23.58	19.01	0.13

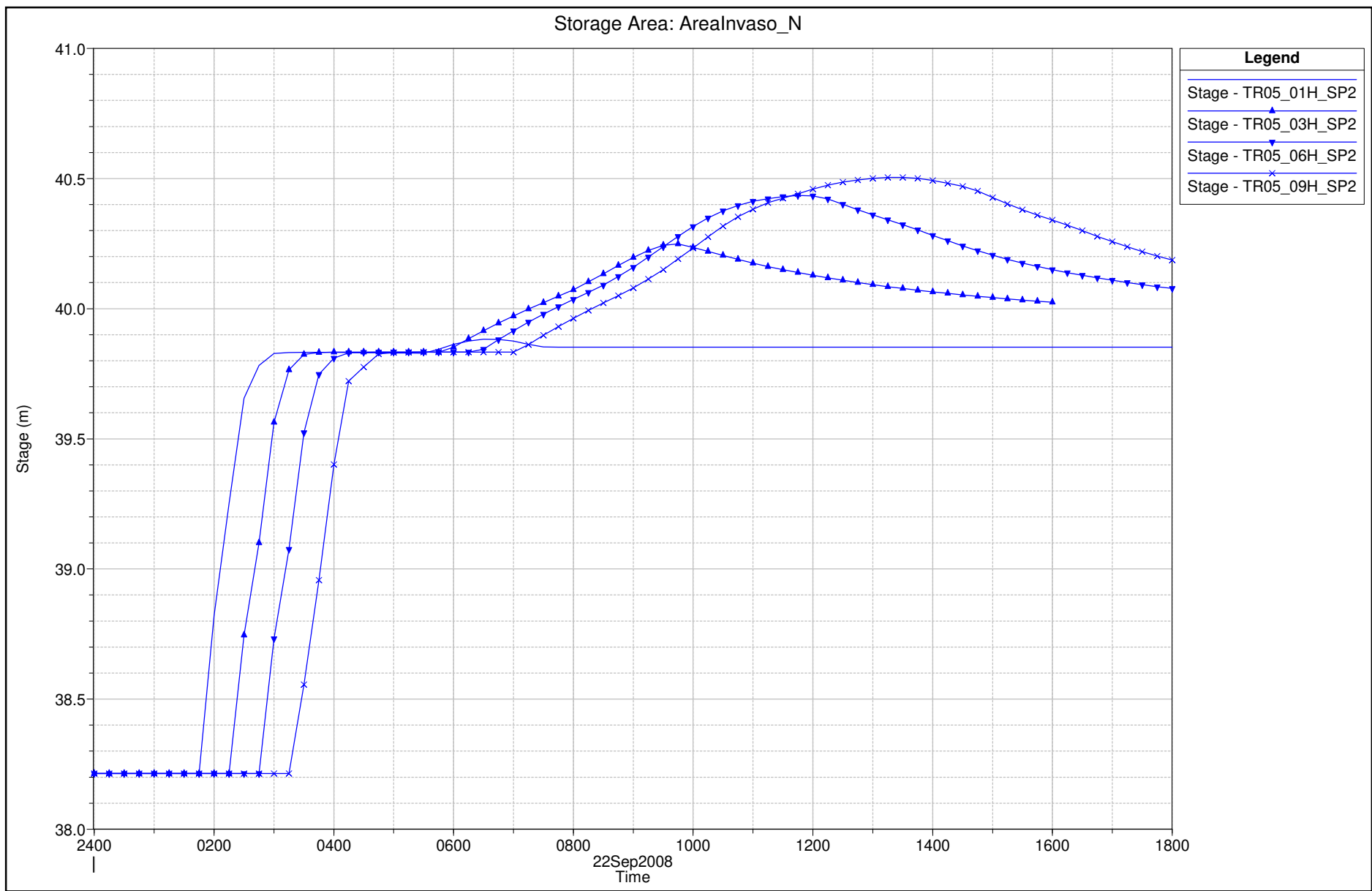
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Calicino	75.03	Max WS	TR05_01H_SA2	-11.38	37.26	40.46	38.62	40.48	0.000159	-0.63	25.07	21.47	0.13
Calicino	75.03	Max WS	TR05_03H_SA2	-11.73	37.26	40.48	38.64	40.49	0.000164	-0.64	25.38	21.47	0.13
Calicino	75.03	Max WS	TR05_06H_SA2	-9.65	37.26	40.53	38.53	40.54	0.000101	-0.51	26.42	21.49	0.10
Calicino	75.03	Max WS	TR05_09H_SA2	-10.76	37.26	40.59	38.59	40.60	0.000111	-0.54	27.87	21.51	0.11
Calicino	75.03	Max WS	TR05_01H_SP2	-11.52	37.26	40.45	38.62	40.47	0.000167	-0.64	24.79	21.46	0.13
Calicino	75.03	Max WS	TR05_03H_SP2	-11.88	37.26	40.46	38.64	40.48	0.000173	-0.66	25.10	21.47	0.13
Calicino	75.03	Max WS	TR05_06H_SP2	-10.26	37.26	40.47	38.56	40.48	0.000127	-0.56	25.22	21.47	0.11
Calicino	75.03	Max WS	TR05_09H_SP2	-11.05	37.26	40.55	38.60	40.56	0.000127	-0.57	26.93	21.50	0.11
Calicino	75.02	Max WS	TR05_01H_SA2	-12.39	37.22	40.45	38.67	40.49	0.000323	-0.90	20.45	19.52	0.17
Calicino	75.02	Max WS	TR05_03H_SA2	-12.76	37.22	40.47	38.69	40.50	0.000333	-0.92	20.72	19.52	0.17
Calicino	75.02	Max WS	TR05_06H_SA2	-10.49	37.22	40.52	38.55	40.54	0.000203	-0.72	21.72	19.52	0.14
Calicino	75.02	Max WS	TR05_09H_SA2	-11.66	37.22	40.59	38.63	40.61	0.000220	-0.77	23.02	19.52	0.14
Calicino	75.02	Max WS	TR05_01H_SP2	-12.51	37.22	40.44	38.67	40.48	0.000338	-0.92	20.20	19.52	0.17
Calicino	75.02	Max WS	TR05_03H_SP2	-12.89	37.22	40.46	38.70	40.49	0.000348	-0.93	20.48	19.52	0.18
Calicino	75.02	Max WS	TR05_06H_SP2	-10.26	37.22	40.46	38.53	40.49	0.000217	-0.74	20.64	19.52	0.14
Calicino	75.02	Max WS	TR05_09H_SP2	-11.91	37.22	40.54	38.64	40.57	0.000250	-0.81	22.17	19.52	0.15
Calicino	75.01	Max WS	TR05_01H_SA2	-12.39	37.39	40.48	38.43	40.49	0.000165	-0.57	24.97	20.02	0.12
Calicino	75.01	Max WS	TR05_03H_SA2	-12.76	37.39	40.49	38.45	40.51	0.000170	-0.58	25.27	20.02	0.12
Calicino	75.01	Max WS	TR05_06H_SA2	-10.49	37.39	40.54	38.34	40.55	0.000107	-0.47	26.10	20.02	0.10
Calicino	75.01	Max WS	TR05_09H_SA2	-11.94	37.39	40.60	38.41	40.62	0.000123	-0.51	27.48	20.02	0.11
Calicino	75.01	Max WS	TR05_01H_SP2	-12.51	37.39	40.47	38.44	40.48	0.000172	-0.58	24.73	20.02	0.12
Calicino	75.01	Max WS	TR05_03H_SP2	-12.89	37.39	40.48	38.46	40.50	0.000178	-0.59	25.03	20.02	0.13
Calicino	75.01	Max WS	TR05_06H_SP2	-12.65	37.39	40.49	38.45	40.50	0.000170	-0.58	25.11	20.02	0.12
Calicino	75.01	Max WS	TR05_09H_SP2	-11.92	37.39	40.56	38.41	40.58	0.000131	-0.52	26.64	20.02	0.11
Calicino	75	Max WS	TR05_01H_SA2	-12.85	37.56	40.50	38.57	40.51	0.000226	-0.51	25.23	17.92	0.14
Calicino	75	Max WS	TR05_03H_SA2	-13.24	37.56	40.51	38.58	40.52	0.000232	-0.52	25.50	17.97	0.14
Calicino	75	Max WS	TR05_06H_SA2	-10.97	37.56	40.55	38.49	40.55	0.000148	-0.42	26.13	18.08	0.11
Calicino	75	Max WS	TR05_09H_SA2	-12.55	37.56	40.62	38.56	40.63	0.000168	-0.46	27.41	18.31	0.12
Calicino	75	Max WS	TR05_01H_SP2	-12.93	37.56	40.48	38.57	40.50	0.000234	-0.52	25.02	17.88	0.14
Calicino	75	Max WS	TR05_03H_SP2	-13.34	37.56	40.50	38.59	40.51	0.000241	-0.53	25.30	17.93	0.14
Calicino	75	Max WS	TR05_06H_SP2	-13.12	37.56	40.50	38.58	40.52	0.000232	-0.52	25.36	17.94	0.14
Calicino	75	Max WS	TR05_09H_SP2	-12.57	37.56	40.58	38.56	40.59	0.000183	-0.47	26.67	18.18	0.12
Calicino	74	Max WS	TR05_01H_SA2	-12.82	37.56	40.51	38.77	40.51	0.000376	-0.09	18.11	10.71	0.02
Calicino	74	Max WS	TR05_03H_SA2	-13.25	37.56	40.52	38.80	40.52	0.000392	-0.08	18.28	10.76	0.02
Calicino	74	Max WS	TR05_06H_SA2	-11.18	37.56	40.55	38.69	40.55	0.000267	-0.08	18.60	10.87	0.02
Calicino	74	Max WS	TR05_09H_SA2	-12.55	37.56	40.62	38.76	40.62	0.000302	-0.08	19.39	11.12	0.02
Calicino	74	Max WS	TR05_01H_SP2	-12.94	37.56	40.50	38.78	40.50	0.000389	-0.09	17.99	10.67	0.02
Calicino	74	Max WS	TR05_03H_SP2	-13.34	37.56	40.51	38.80	40.51	0.000404	-0.09	18.16	10.72	0.02
Calicino	74	Max WS	TR05_06H_SP2	-13.12	37.56	40.52	38.79	40.52	0.000389	-0.09	18.19	10.73	0.02
Calicino	74	Max WS	TR05_09H_SP2	-12.60	37.56	40.58	38.76	40.58	0.000323	-0.08	18.94	10.98	0.02
Calicino	73.5			Inl Struct									
Calicino	73	Max WS	TR05_01H_SA2	-12.88	37.56	41.23	38.78	41.24	0.000137	-0.48	26.78	13.28	0.11
Calicino	73	Max WS	TR05_03H_SA2	-13.31	37.56	41.29	38.80	41.30	0.000135	-0.48	27.58	13.49	0.11
Calicino	73	Max WS	TR05_06H_SA2	-13.29	37.56	41.29	38.80	41.30	0.000135	-0.48	27.56	13.49	0.11
Calicino	73	Max WS	TR05_09H_SA2	-13.27	37.56	41.29	38.80	41.30	0.000135	-0.48	27.53	13.48	0.11
Calicino	73	Max WS	TR05_01H_SP2	-12.97	37.56	41.23	38.78	41.24	0.000139	-0.48	26.78	13.28	0.11
Calicino	73	Max WS	TR05_03H_SP2	-13.40	37.56	41.29	38.80	41.30	0.000137	-0.49	27.58	13.49	0.11
Calicino	73	Max WS	TR05_06H_SP2	-13.37	37.56	41.29	38.80	41.30	0.000137	-0.49	27.56	13.49	0.11
Calicino	73	Max WS	TR05_09H_SP2	-13.35	37.56	41.29	38.80	41.30	0.000137	-0.49	27.53	13.48	0.11
Calicino	72	Max WS	TR05_01H_SA2	-12.88	37.56	41.23	38.78	41.24	0.000137	-0.48	26.79	13.28	0.11
Calicino	72	Max WS	TR05_03H_SA2	-13.31	37.56	41.29	38.80	41.30	0.000135	-0.48	27.59	13.50	0.11
Calicino	72	Max WS	TR05_06H_SA2	-13.29	37.56	41.29	38.80	41.30	0.000135	-0.48	27.57	13.49	0.11
Calicino	72	Max WS	TR05_09H_SA2	-13.27	37.56	41.29	38.80	41.30	0.000135	-0.48	27.54	13.48	0.11
Calicino	72	Max WS	TR05_01H_SP2	-12.97	37.56	41.23	38.78	41.24	0.000138	-0.48	26.79	13.28	0.11
Calicino	72	Max WS	TR05_03H_SP2	-13.40	37.56	41.29	38.80	41.30	0.000137	-0.49	27.60	13.50	0.11
Calicino	72	Max WS	TR05_06H_SP2	-13.37	37.56	41.29	38.80	41.30	0.000137	-0.49	27.57	13.49	0.11
Calicino	72	Max WS	TR05_09H_SP2	-13.35	37.56	41.29	38.80	41.30	0.000136	-0.48	27.54	13.48	0.11

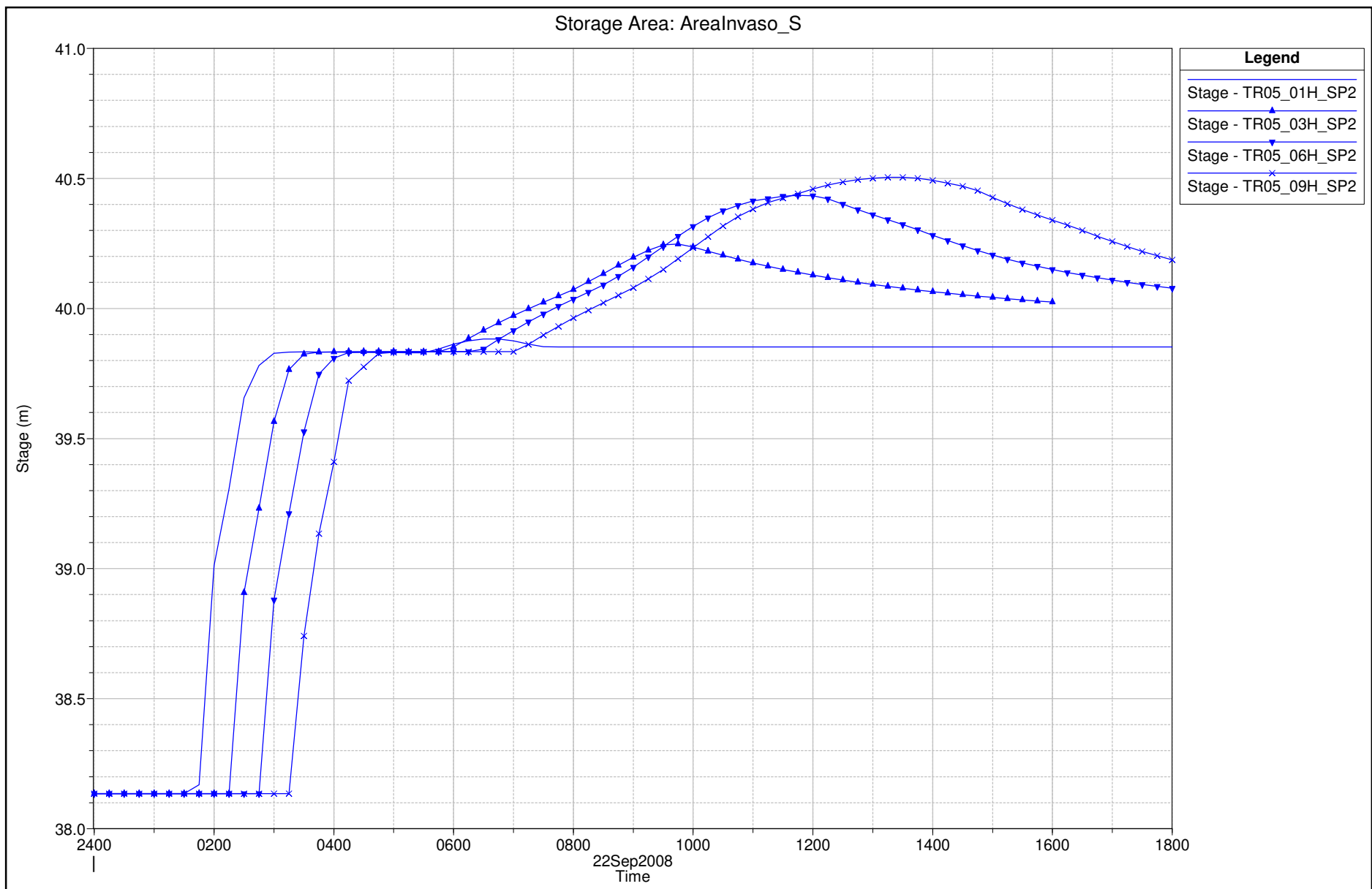
HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
APE019	Max WS	TR05_01H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_03H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_06H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_09H_SA2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_01H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_03H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_06H_SP2	38.20	38.20	0.00	9.05	0.00
APE019	Max WS	TR05_09H_SP2	38.20	38.20	0.00	9.05	0.00
APE020	Max WS	TR05_01H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_03H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_06H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_09H_SA2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_01H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_03H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_06H_SP2	37.95	37.95	0.00	14.80	0.00
APE020	Max WS	TR05_09H_SP2	37.95	37.95	0.00	14.80	0.00
APE021_C	Max WS	TR05_01H_SA2	39.94	38.60	6.41	48.01	35.84
APE021_C	Max WS	TR05_03H_SA2	40.33	38.60	6.12	47.97	54.50
APE021_C	Max WS	TR05_06H_SA2	40.49	38.60	-3.21	47.96	62.08
APE021_C	Max WS	TR05_09H_SA2	40.55	38.60	-1.00	47.96	65.05
APE021_C	Max WS	TR05_01H_SP2	39.88	38.73	2.76	35.87	21.01
APE021_C	Max WS	TR05_03H_SP2	40.25	38.73	9.76	35.88	34.07
APE021_C	Max WS	TR05_06H_SP2	40.44	38.73	-5.14	35.87	40.76
APE021_C	Max WS	TR05_09H_SP2	40.50	38.73	-4.77	35.87	43.23
APE021_N	Max WS	TR05_01H_SA2	39.94	38.12	0.10	42.29	42.12
APE021_N	Max WS	TR05_03H_SA2	40.33	38.12	-0.59	42.73	58.67
APE021_N	Max WS	TR05_06H_SA2	40.49	38.12	3.35	43.02	65.43
APE021_N	Max WS	TR05_09H_SA2	40.55	38.12	1.98	43.02	68.10
APE021_N	Max WS	TR05_01H_SP2	39.88	38.12	2.36	42.29	39.73
APE021_N	Max WS	TR05_03H_SP2	40.25	38.12	-5.46	42.73	55.21
APE021_N	Max WS	TR05_06H_SP2	40.44	38.12	4.25	43.02	63.18
APE021_N	Max WS	TR05_09H_SP2	40.50	38.12	2.46	43.02	66.14
APE021_S	Max WS	TR05_01H_SA2	39.94	38.37	1.45	22.16	14.30
APE021_S	Max WS	TR05_03H_SA2	40.33	38.37	1.51	22.70	23.00
APE021_S	Max WS	TR05_06H_SA2	40.49	38.37	1.19	22.86	26.59
APE021_S	Max WS	TR05_09H_SA2	40.55	38.37	-0.67	22.86	28.01
APE022	Max WS	TR05_01H_SA2	38.72	37.97	0.41	21.32	5.97
APE022	Max WS	TR05_03H_SA2	39.04	37.97	1.23	91.71	26.56
APE022	Max WS	TR05_06H_SA2	39.68	37.97	5.69	111.63	92.50
APE022	Max WS	TR05_09H_SA2	40.22	37.97	0.00	114.48	153.87
APE022	Max WS	TR05_01H_SP2	38.59	37.97	0.23	21.32	3.37
APE022	Max WS	TR05_03H_SP2	39.04	37.97	1.25	91.71	26.31
APE022	Max WS	TR05_06H_SP2	39.61	37.97	4.53	111.63	85.32
APE022	Max WS	TR05_09H_SP2	40.17	37.97	0.00	114.48	148.33
APE023_EL	Max WS	TR05_01H_SA2	39.94	38.55	1.70	51.92	37.55
APE023_EL	Max WS	TR05_03H_SA2	40.33	38.55	1.21	58.31	58.99
APE023_EL	Max WS	TR05_06H_SA2	40.48	38.55	0.45	59.89	67.81
APE023_EL	Max WS	TR05_09H_SA2	40.52	38.55	-23.99	60.43	70.63
APE023_EL	Max WS	TR05_01H_SP2	39.86	38.55	4.18	82.11	57.69
APE023_EL	Max WS	TR05_03H_SP2	40.25	38.55	1.29	89.88	91.20
APE023_EL	Max WS	TR05_06H_SP2	40.43	38.55	-0.02	89.88	107.36
APE023_EL	Max WS	TR05_09H_SP2	40.48	38.55	0.18	89.88	112.26
APE023_Lago	Max WS	TR05_01H_SA2	39.66	38.32	2.81	55.61	40.27
APE023_Lago	Max WS	TR05_03H_SA2	40.22	38.32	3.82	56.75	71.72
APE023_Lago	Max WS	TR05_06H_SA2	40.48	38.32	0.39	56.91	86.37

HEC-RAS Profile: Max WS (Continued)

Storage Area	Profile	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
APE023_Lago	Max WS	TR05_09H_SA2	40.52	38.32	0.22	57.67	89.08
APE023_Lago	Max WS	TR05_01H_SP2	39.58	38.32	2.77	55.42	35.75
APE023_Lago	Max WS	TR05_03H_SP2	40.08	38.32	3.08	56.47	63.82
APE023_Lago	Max WS	TR05_06H_SP2	40.43	38.32	0.50	57.21	83.68
APE023_Lago	Max WS	TR05_09H_SP2	40.48	38.32	-0.08	57.55	86.79
APE024	Max WS	TR05_01H_SA2	39.40	38.42	2.19	40.16	13.46
APE024	Max WS	TR05_03H_SA2	39.51	38.42	1.99	71.86	20.81
APE024	Max WS	TR05_06H_SA2	39.89	38.42	2.93	90.67	52.08
APE024	Max WS	TR05_09H_SA2	40.22	38.42	12.46	112.85	86.32
APE024	Max WS	TR05_01H_SP2	39.37	38.42	2.19	40.16	12.15
APE024	Max WS	TR05_03H_SP2	39.51	38.42	2.23	71.86	20.96
APE024	Max WS	TR05_06H_SP2	39.81	38.42	2.30	90.67	44.51
APE024	Max WS	TR05_09H_SP2	40.17	38.42	12.32	105.50	80.87
APE167	Max WS	TR05_01H_SA2	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_03H_SA2	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_06H_SA2	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_09H_SA2	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_01H_SP2	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_03H_SP2	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_06H_SP2	37.41	37.41	0.00	0.04	0.00
APE167	Max WS	TR05_09H_SP2	37.41	37.41	0.00	0.04	0.00
APE200	Max WS	TR05_01H_SA2	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_03H_SA2	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_06H_SA2	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_09H_SA2	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_01H_SP2	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_03H_SP2	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_06H_SP2	39.08	39.08	0.00	0.16	0.00
APE200	Max WS	TR05_09H_SP2	39.08	39.08	0.00	0.16	0.00
NordPantanelle	Max WS	TR05_01H_SA2	39.94	38.79	1.25	31.26	26.77
NordPantanelle	Max WS	TR05_03H_SA2	40.33	38.79	1.00	31.07	38.84
NordPantanelle	Max WS	TR05_06H_SA2	40.48	38.79	-0.48	31.15	43.51
NordPantanelle	Max WS	TR05_09H_SA2	40.52	38.79	23.92	31.47	44.97
NordPantanelle	Max WS	TR05_01H_SP2	40.00	38.79	0.00	31.26	28.60
NordPantanelle	Max WS	TR05_03H_SP2	40.00	38.79	0.00	31.26	28.60
NordPantanelle	Max WS	TR05_06H_SP2	40.00	38.79	0.00	31.26	28.60
NordPantanelle	Max WS	TR05_09H_SP2	40.00	38.79	0.00	31.26	28.60
ArealInvaso_N	Max WS	TR05_01H_SP2	39.88	38.21	-1.45	10.44	10.61
ArealInvaso_N	Max WS	TR05_03H_SP2	40.25	38.21	2.37	10.46	14.41
ArealInvaso_N	Max WS	TR05_06H_SP2	40.44	38.21	0.98	10.46	16.36
ArealInvaso_N	Max WS	TR05_09H_SP2	40.50	38.21	3.58	10.46	17.08
ArealInvaso_S	Max WS	TR05_01H_SP2	39.88	38.14	1.38	22.10	21.70
ArealInvaso_S	Max WS	TR05_03H_SP2	40.25	38.14	1.47	22.76	29.83
ArealInvaso_S	Max WS	TR05_06H_SP2	40.44	38.14	1.01	22.86	34.08
ArealInvaso_S	Max WS	TR05_09H_SP2	40.50	38.14	-0.78	22.86	35.67





Storage Area: NordPantanelle

