

Rio Bonorchis

Interventi per il superamento delle problematiche idrauliche del canale coperto "rio bonorchis" in località "s'olia" e realizzazione di un bacino di laminazione a monte dell'abitato"

(CUP G99H18000060002)

PROGETTO FATTIBILITÀ TECNICA ED ECONOMICA

committente: Comune di Abbasanta

responsabile servizio/settore (PO):

Arch. Gianfranco Sedda

responsabile unico del procedimento (RUP): Arch. Gianfranco Sedda

affidatario: ATI Sud Ovest Engineering S.r.l. - Abacus S.r.l.

progettista responsabile: Dott. Ing. Andrea LOSTIA - Dott. Ing. Maurizio SERAFINI

integrazione specialistica: Dott. Ing. Andrea LOSTIA

integrazione geologica: Dott. Geol. Tiziana CARRUS

coordinatore sicurezza CSP: Dott. Ing. Maurizio SERAFINI

integrazione archeologica: Archeologa Pierangela DEFRASSU

SOGGETTO INCARICATO - ATI Sud Ovest Engineering S.r.l. (mandataria) - ABACUS S.r.l.

SOE Sud Ovest Engineering S.r.l.

SOE S.r.l. - Società di Ingegneria

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COMUNE DI ABBASANTA
SERVIZIO TECNICO E VIGILANZA

report idraulico

ELABORATO		TAVOLA		SCALA		ALLEGATO
A4.1						
COMMESSA		APPROVAZIONE		REVISIONE/RIAPPROVAZIONE		APPROVAZIONE DEFINITIVA
2004 (2020_04)						
livello	emissione	data	redazione	verifica	approvazione	VISTO COMMITTENTE
preliminare	RE00	SET-2022		Ing. A. LOSTIA	Ing. A. LOSTIA	

RIO BONORCHIS

SIMULAZIONE ANTE E POST OPERAM

PROFILI

SEZIONI

TABELLE RISULTATI

LEGENDA delle abbreviazioni utilizzate nelle tabelle idrauliche

River sta = n. sezione di calcolo del corso d'acqua

Profile = tempo di ritorno di calcolo (anni)

Q Total = portata di calcolo (m^3/s)

Min Ch El = quota assoluta del fondo alveo (m s.l.m.)

W.S. Elev = quota assoluta del pelo libero (m s.l.m.)

Max Chl Dpth = quota relativa del pelo libero (m)

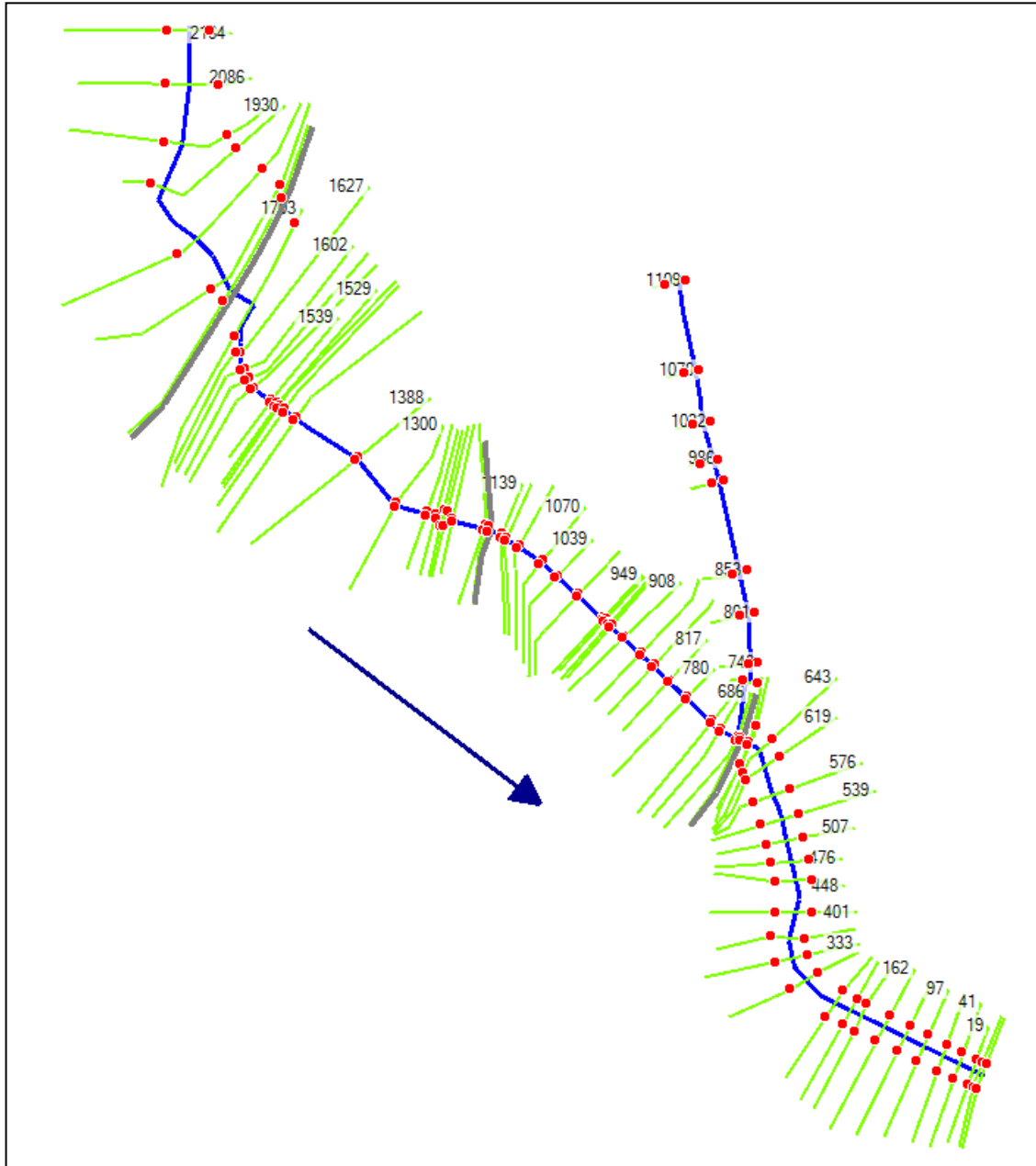
Top Width = lunghezza pelo libero (m)

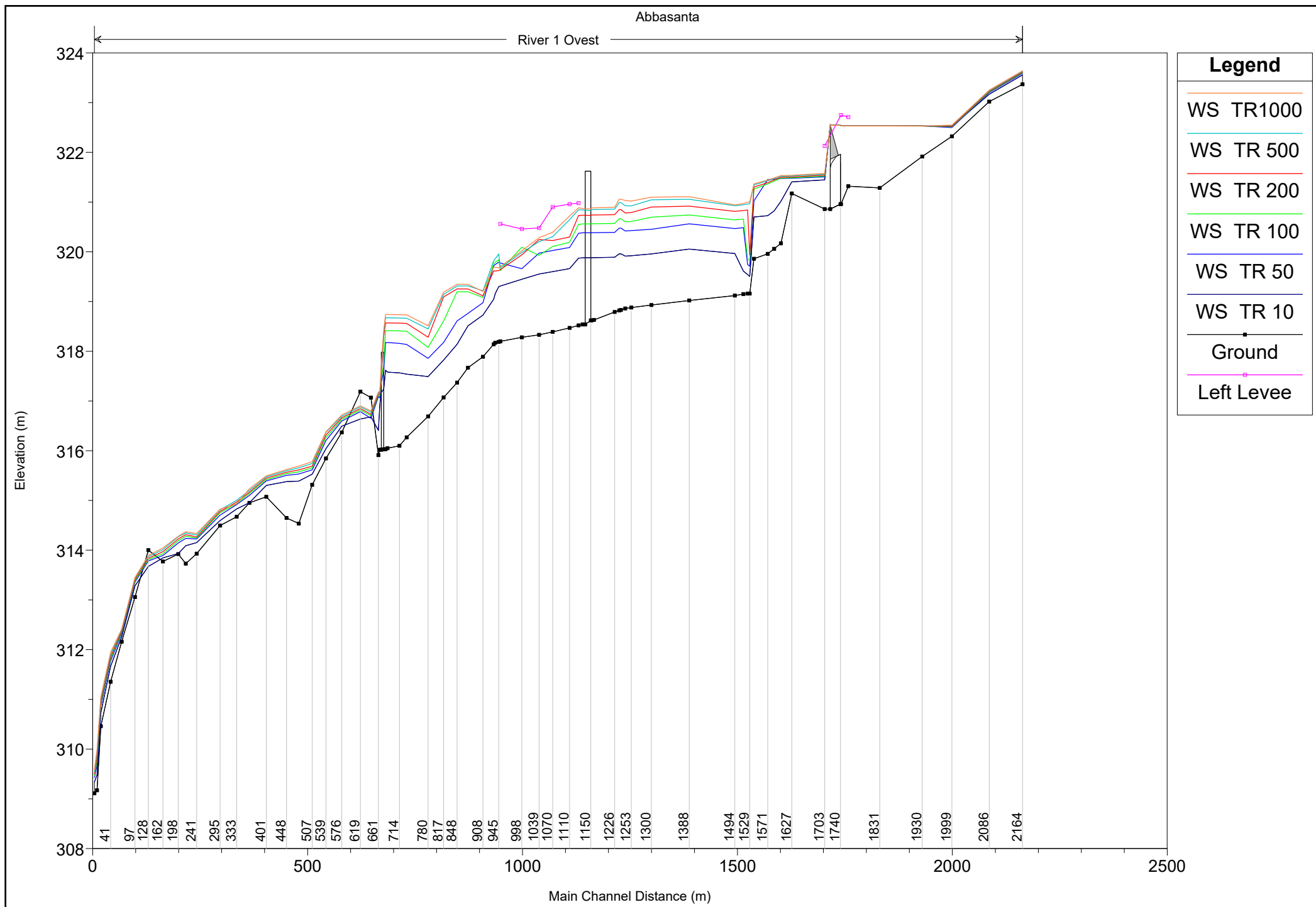
Vel Total = velocità media della corrente nella sezione (m/s)

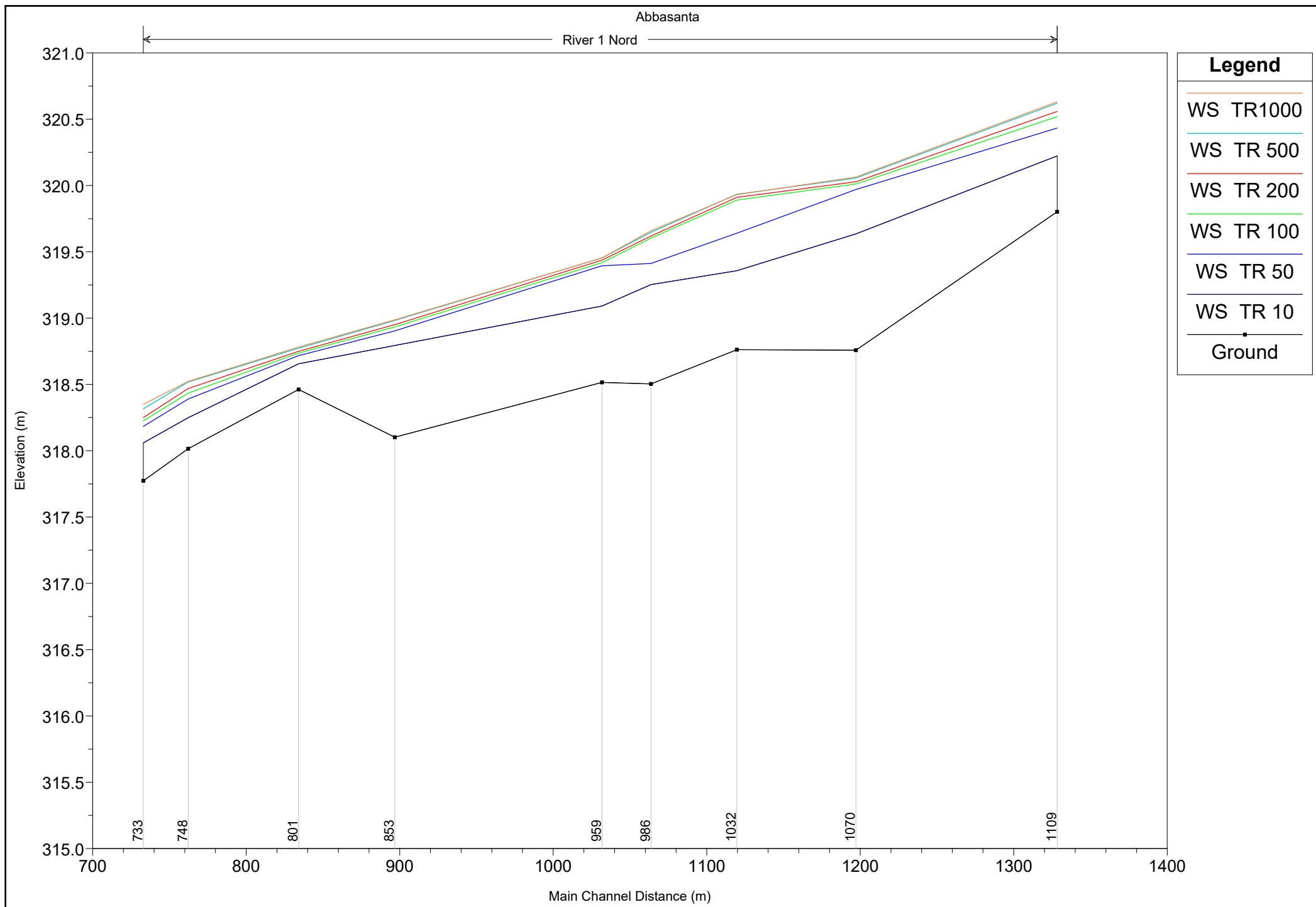
Vel Chnl = velocità media della corrente nel canale (m/s)

Froude # Chl = numero di Froude

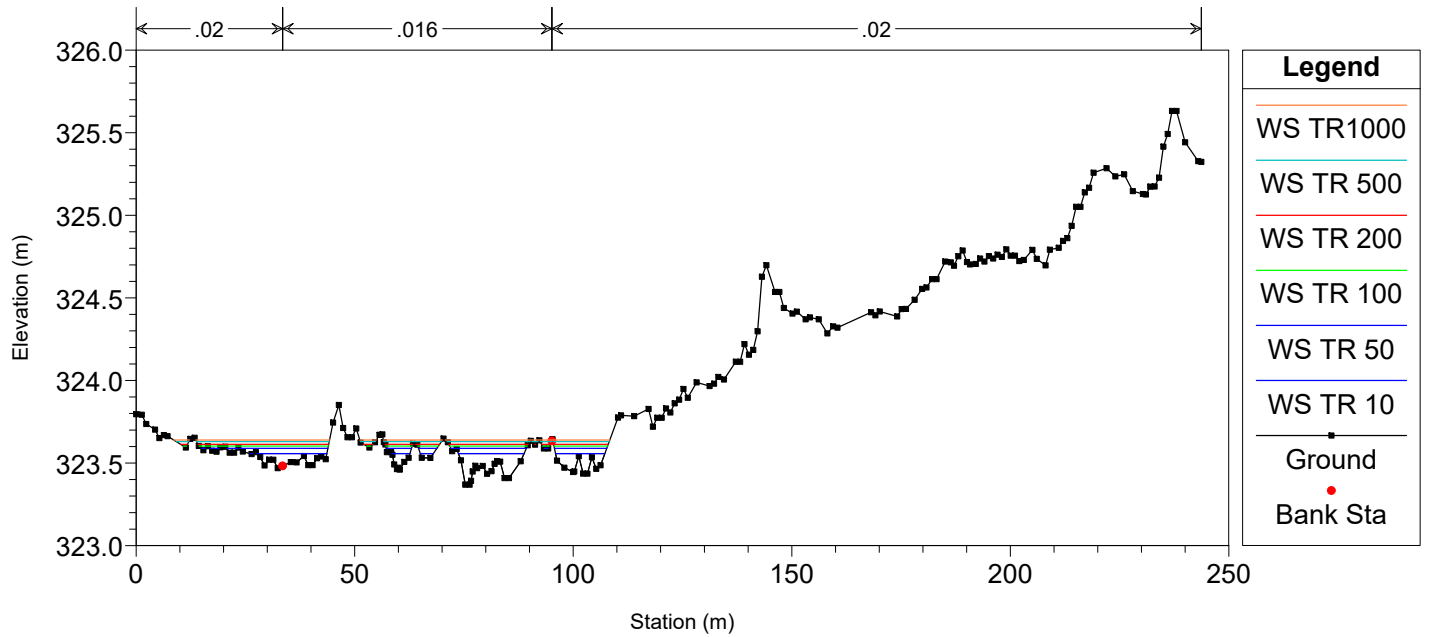
ANTE OPERAM



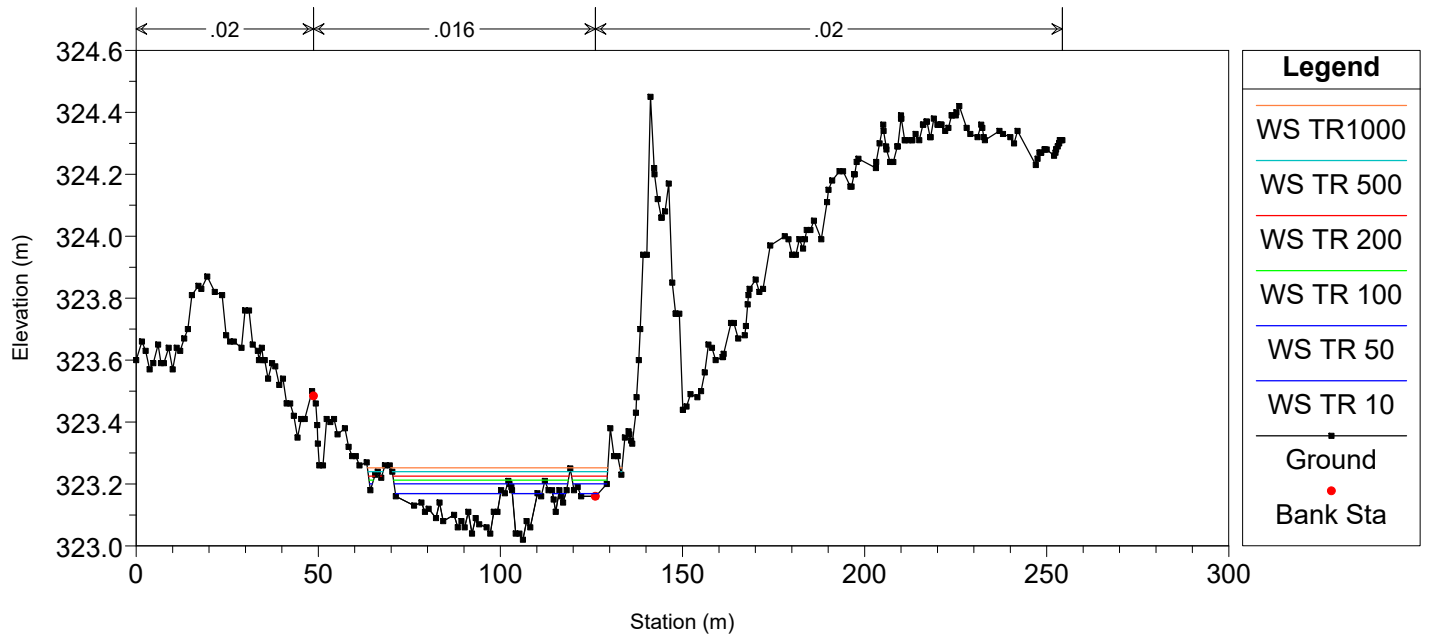




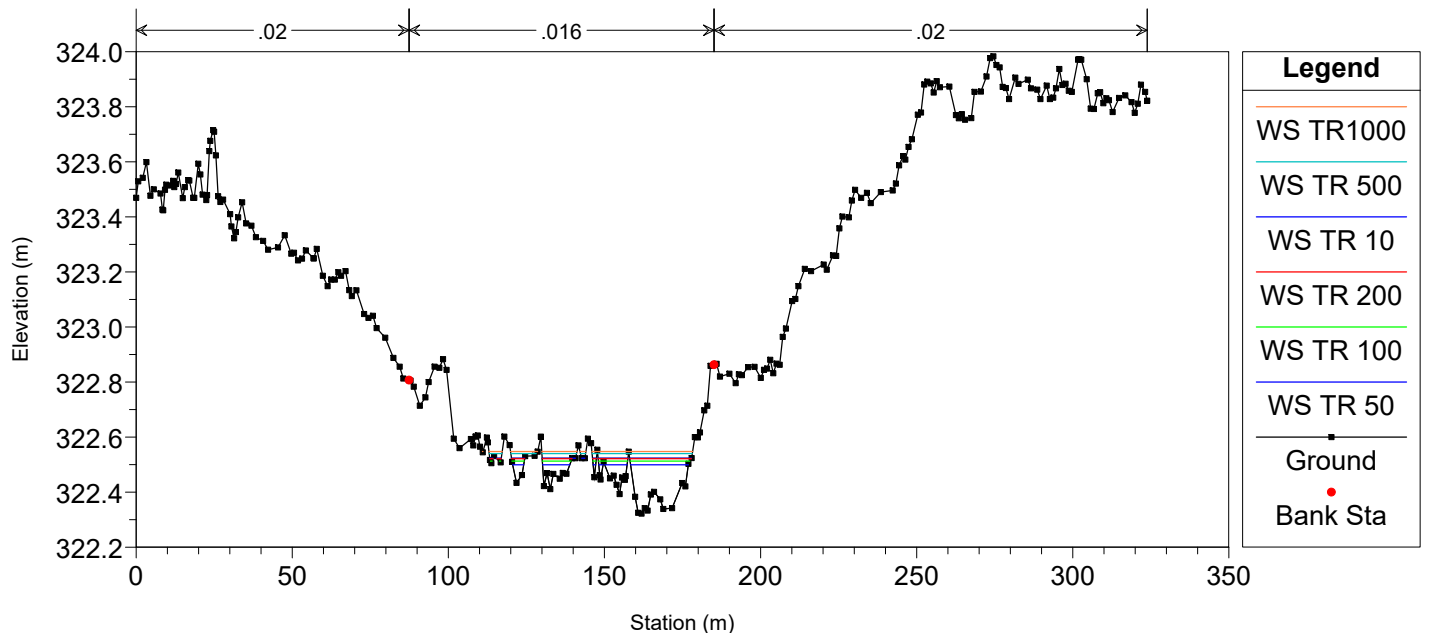
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Abbasanta

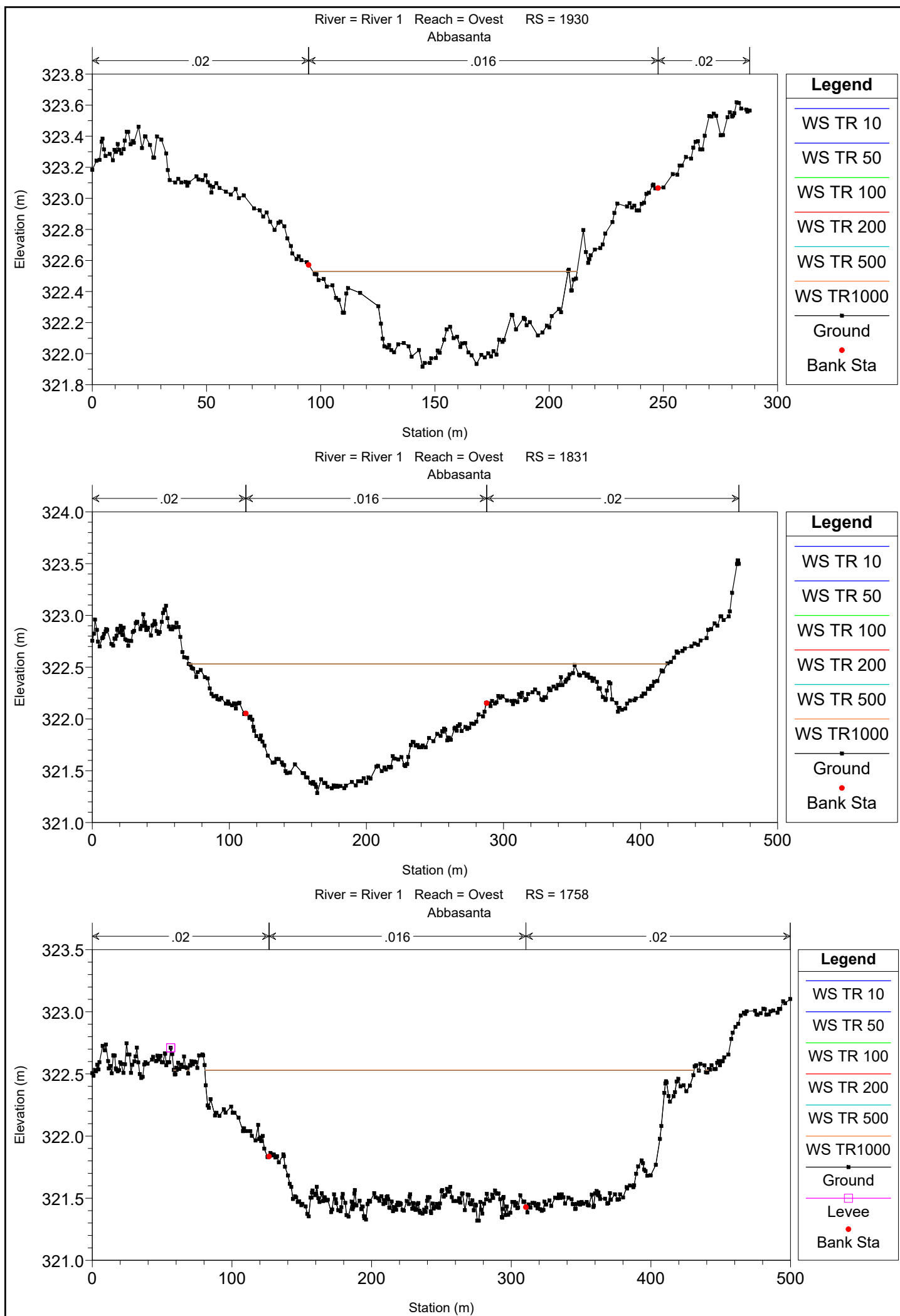


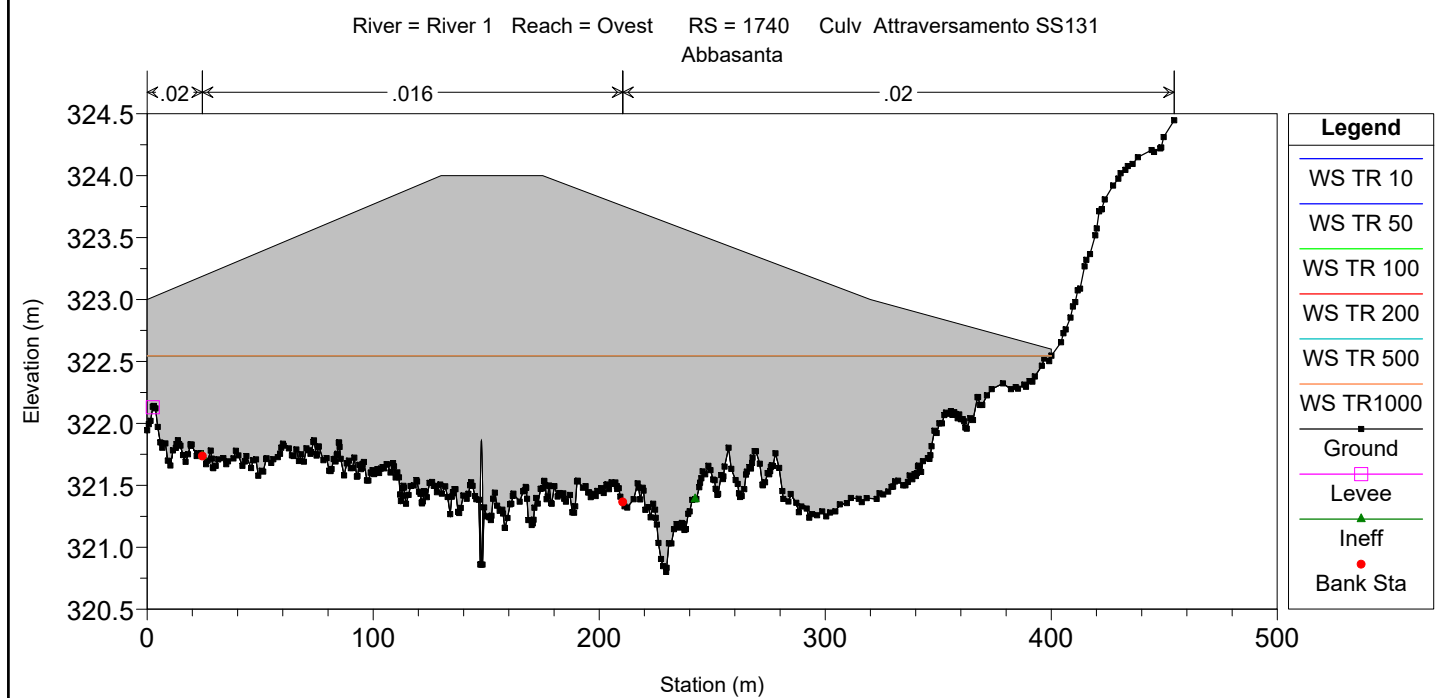
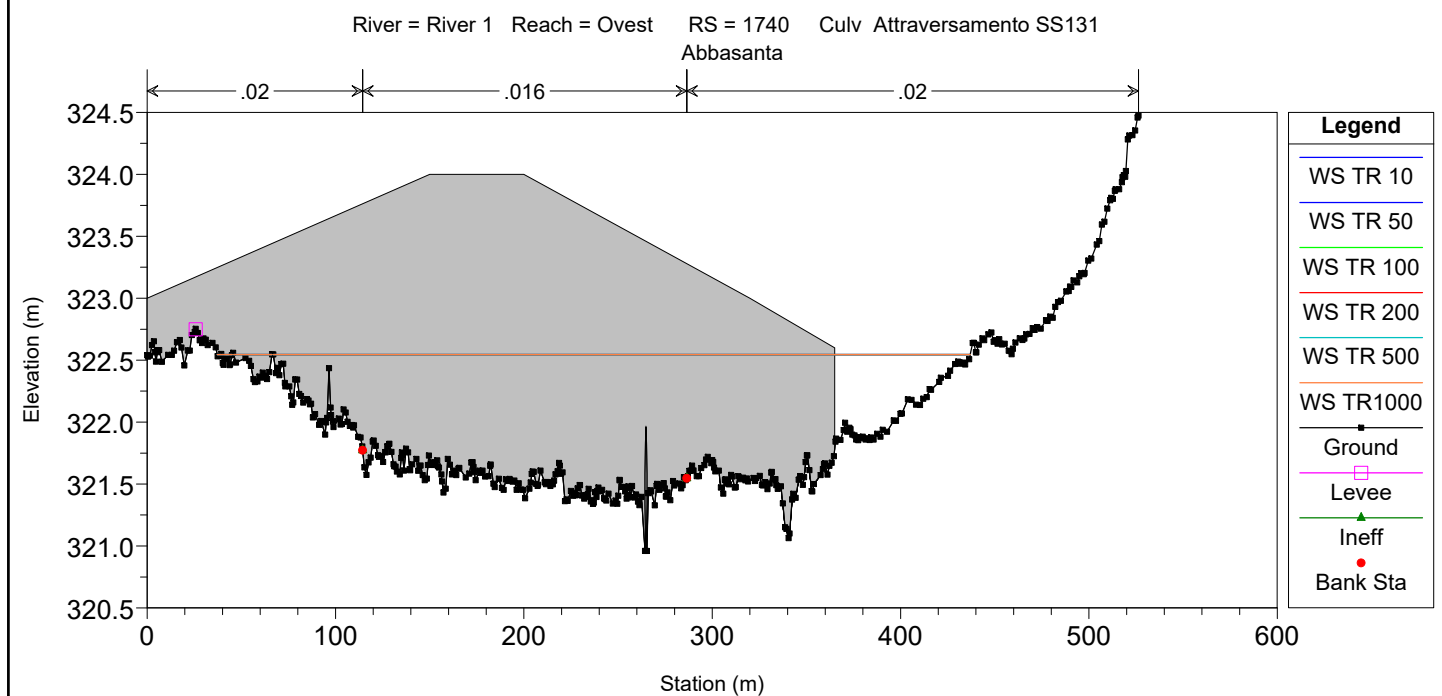
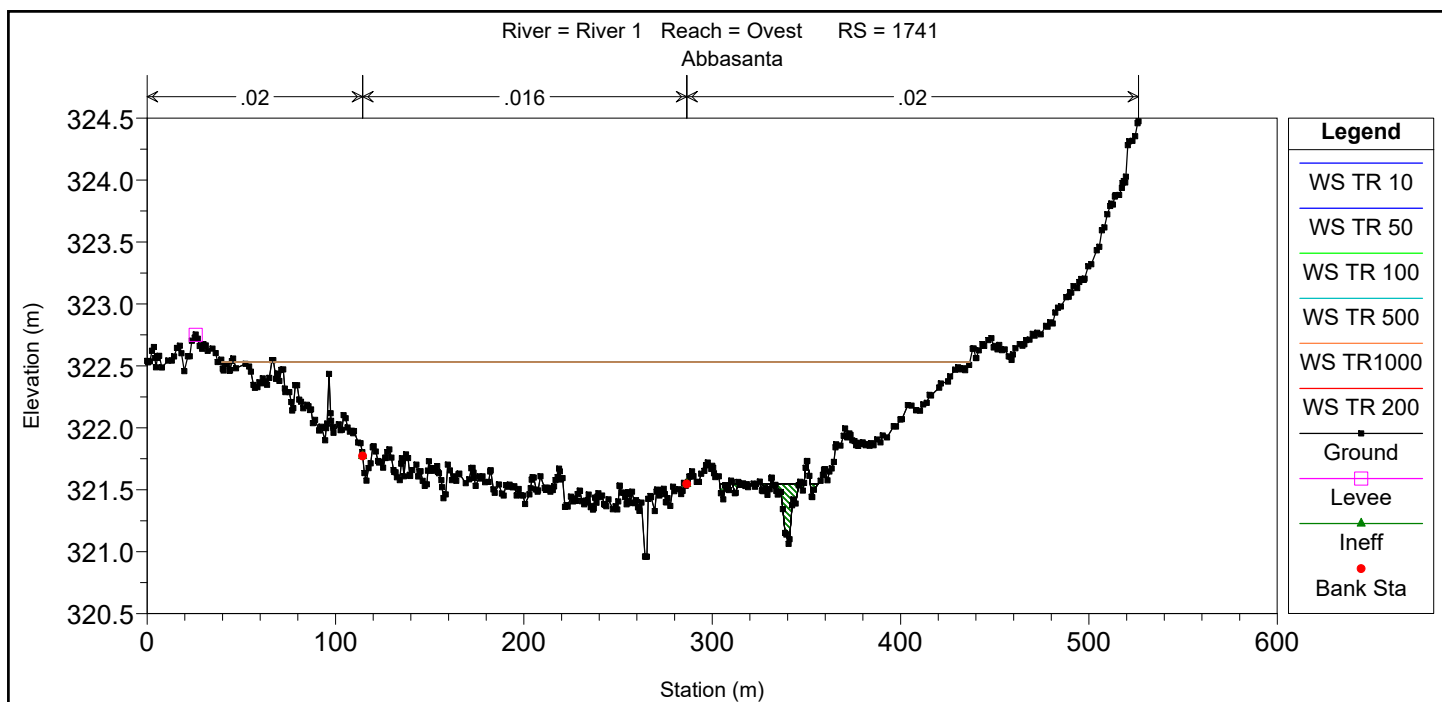
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Abbasanta

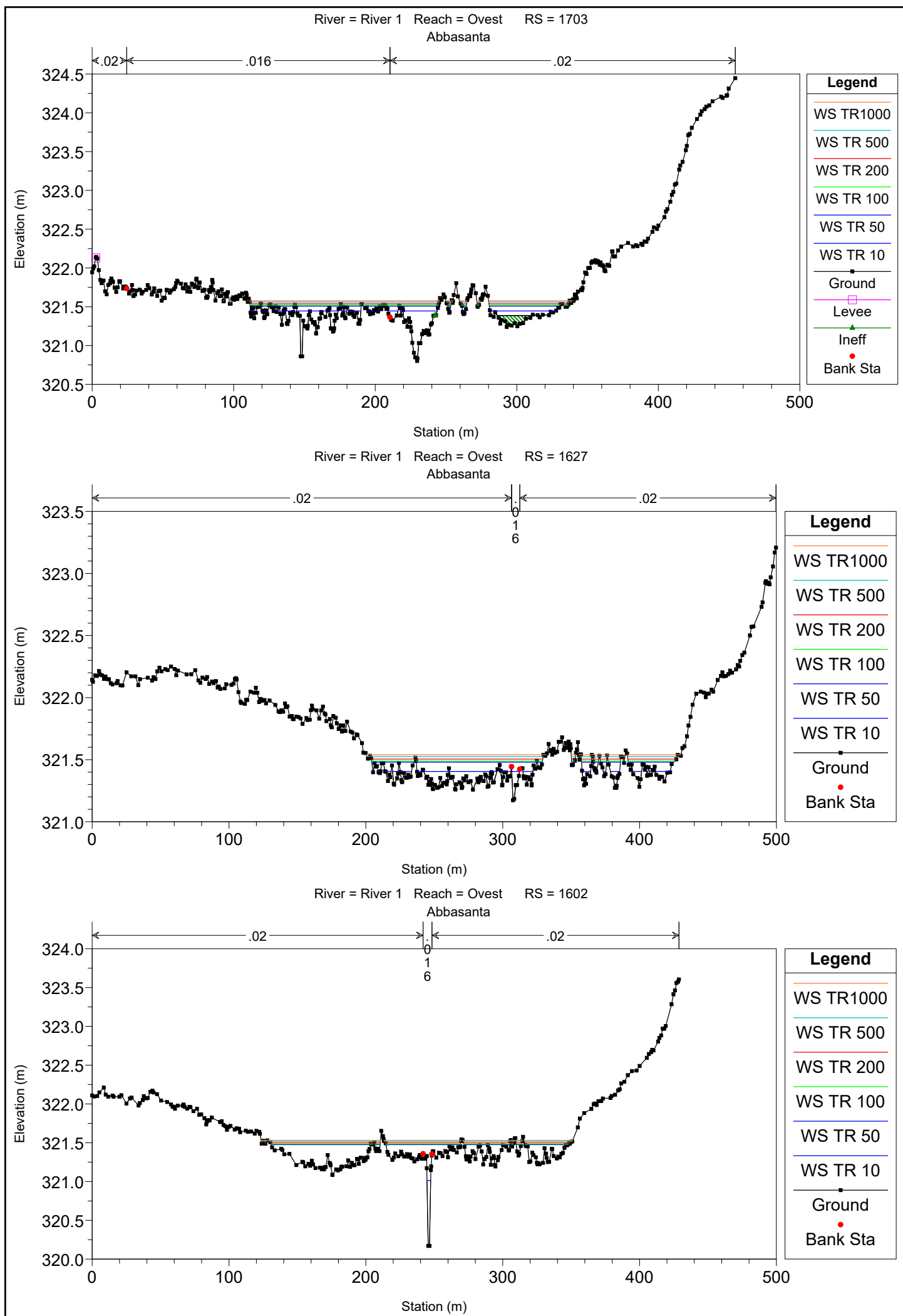


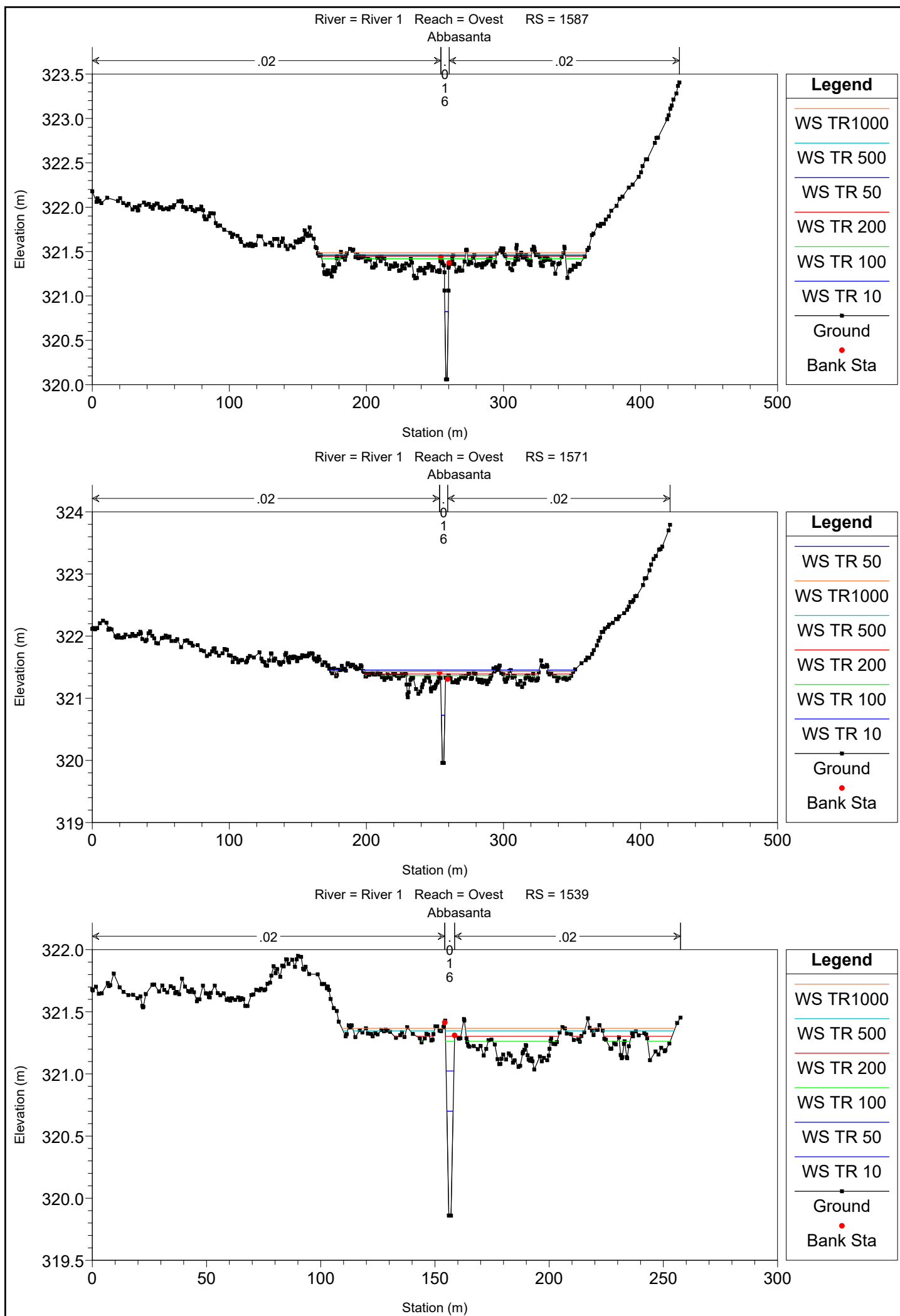
River = River 1 Reach = Ovest RS = 1999
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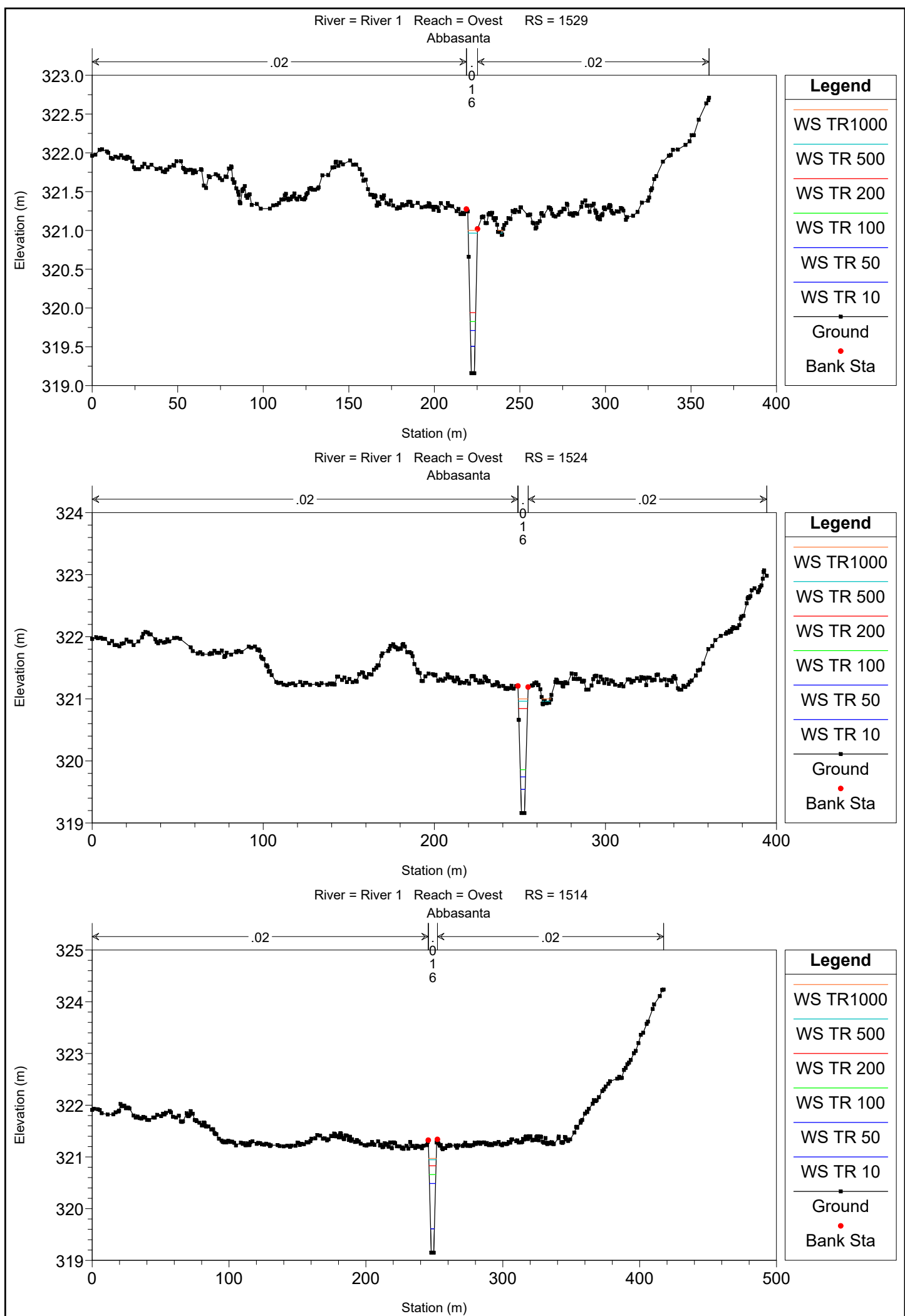


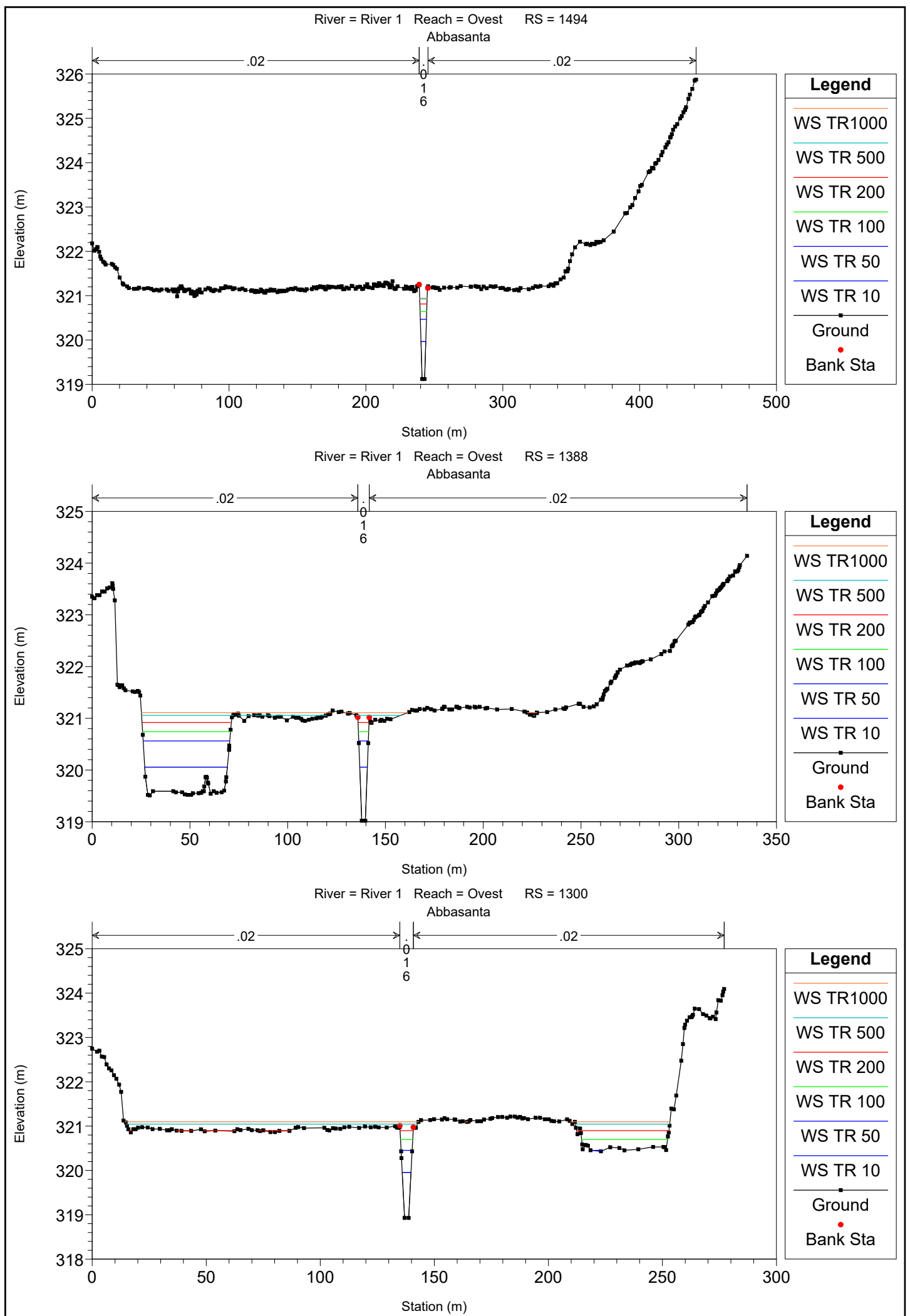


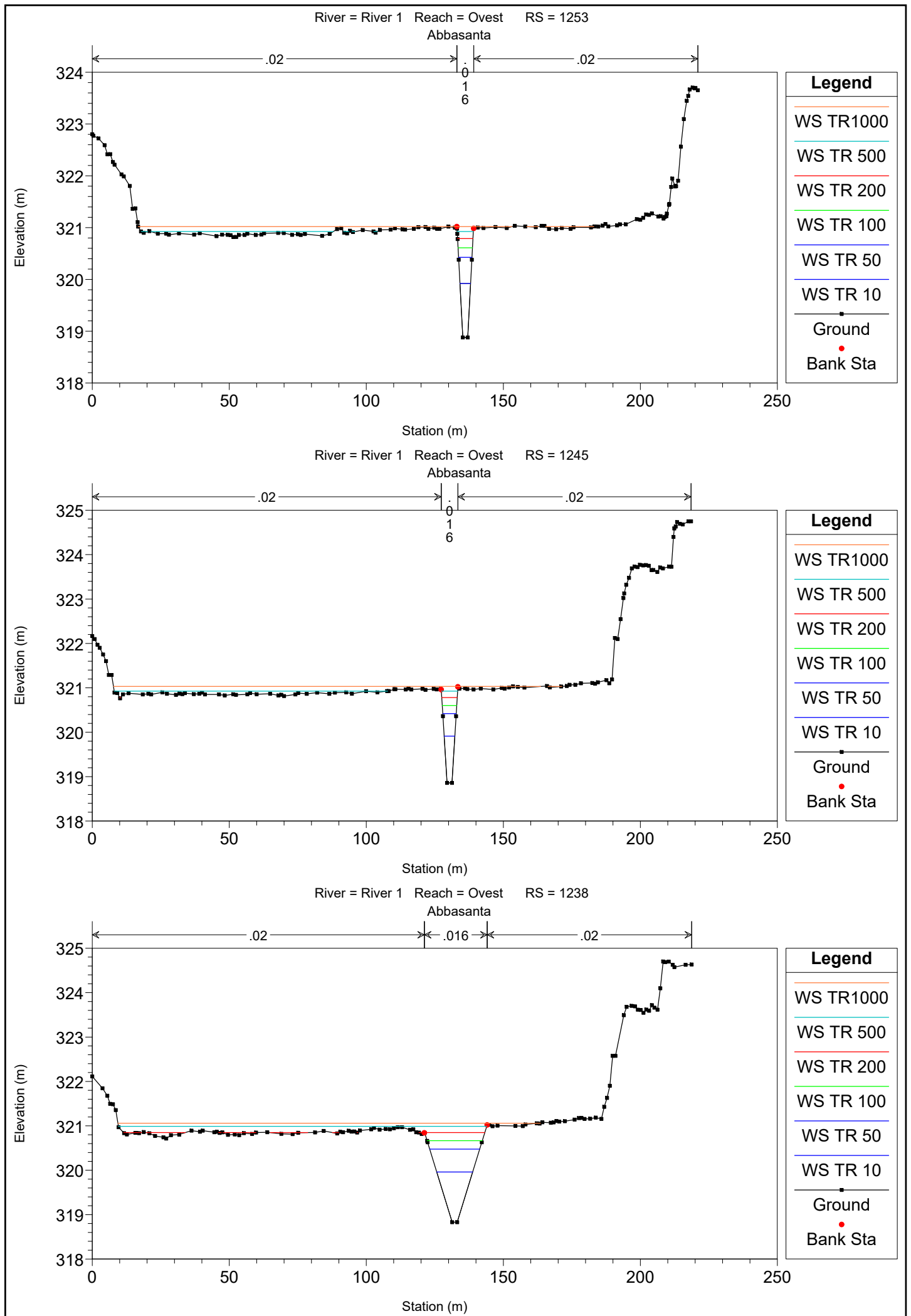


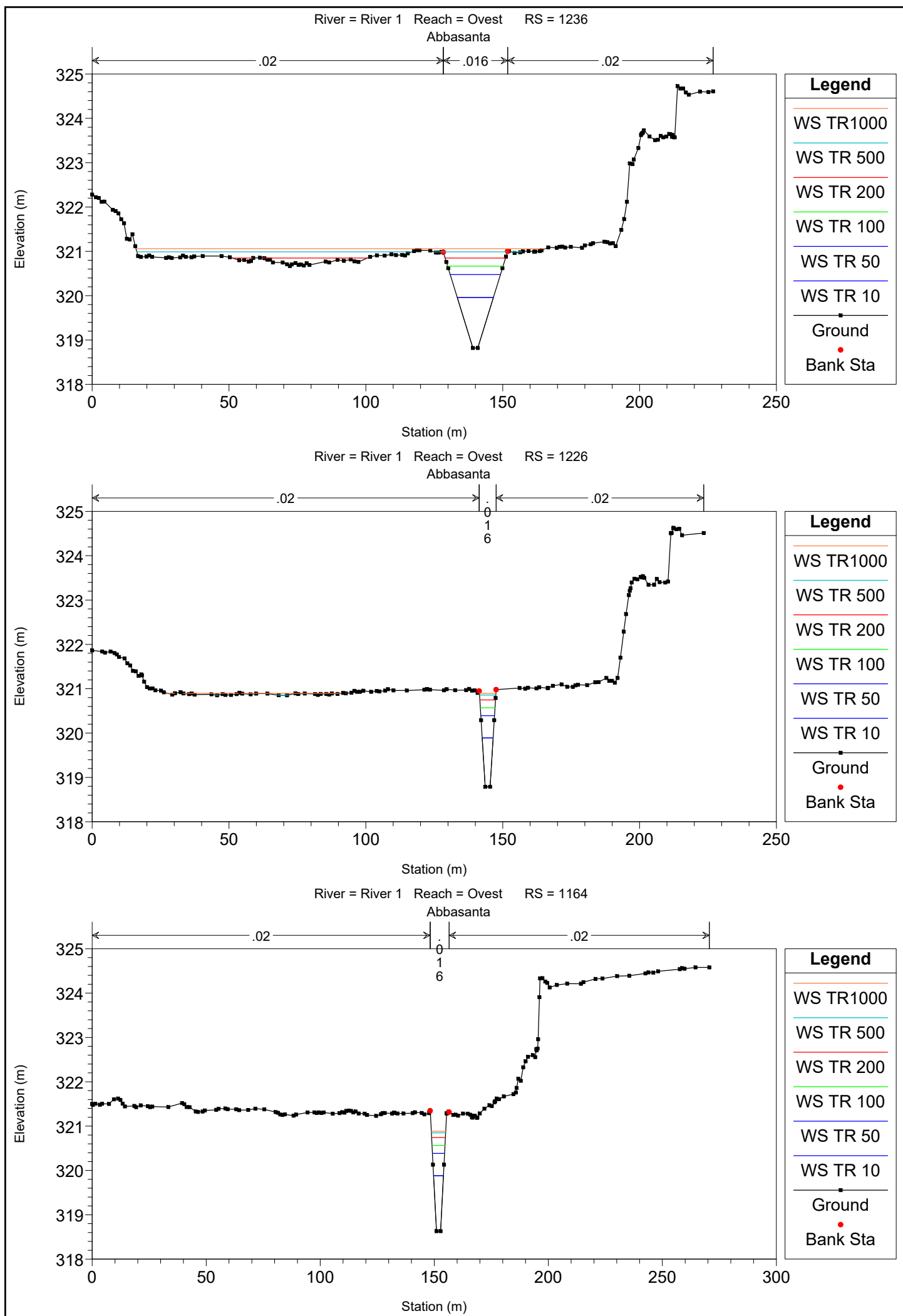


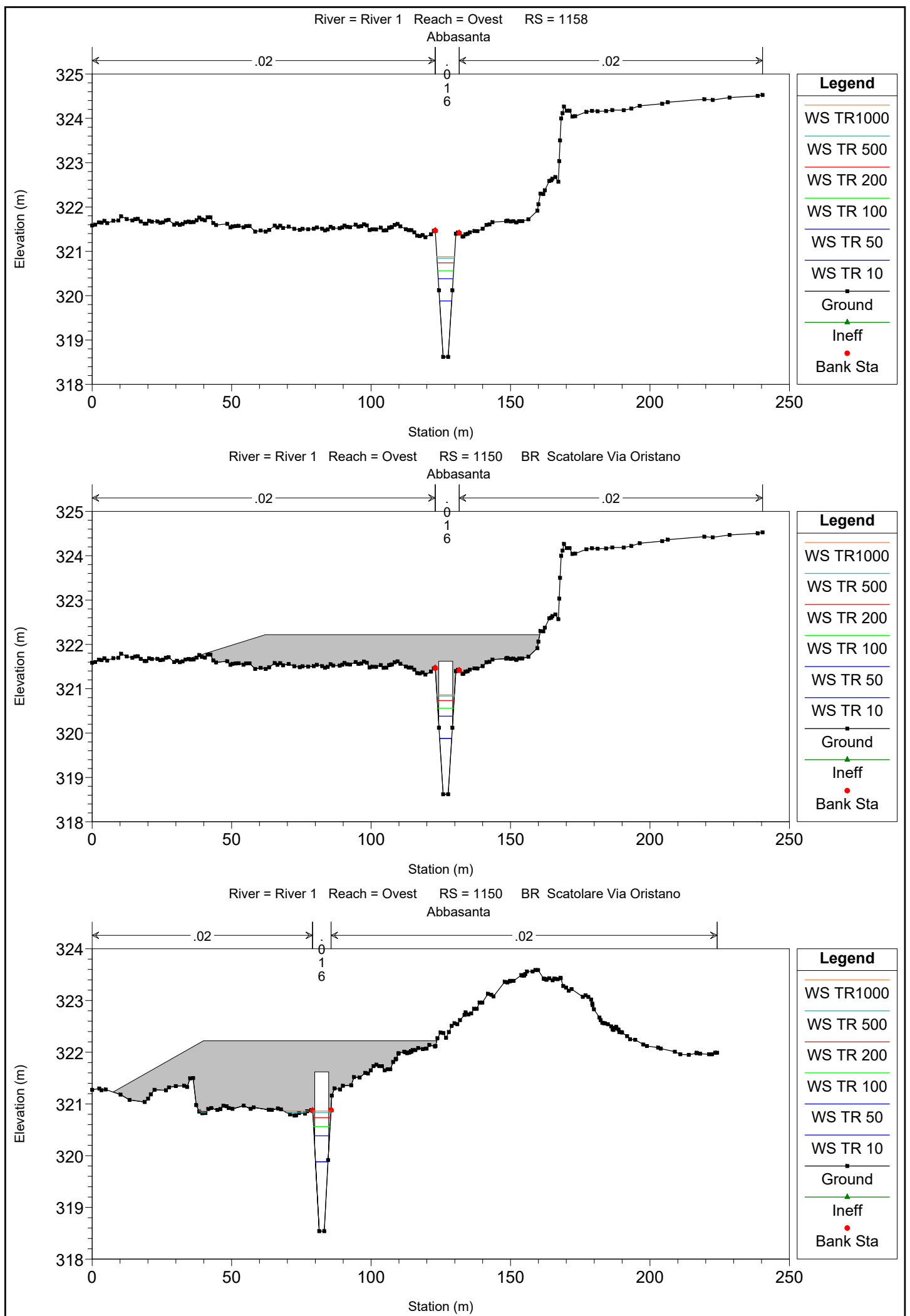


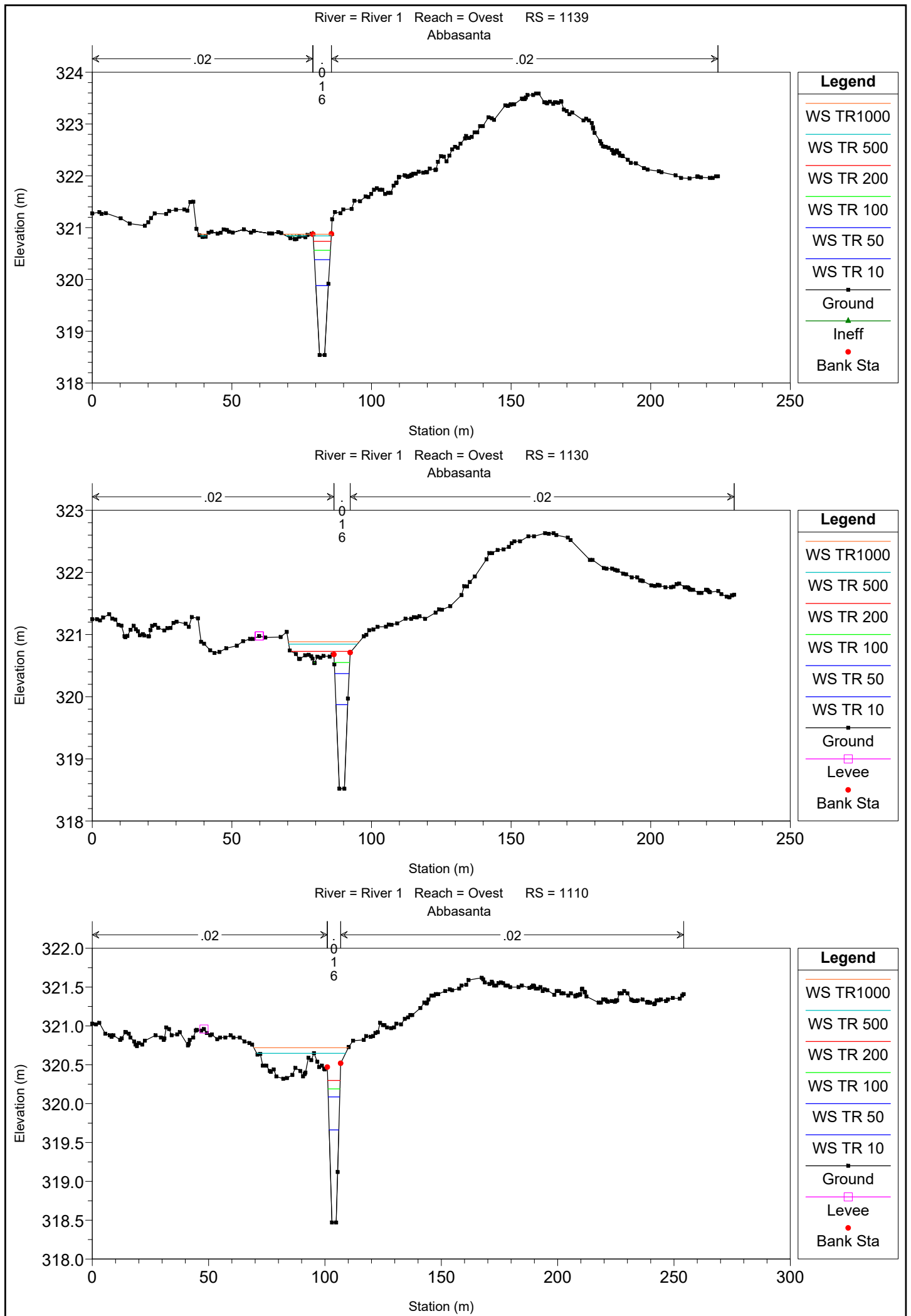


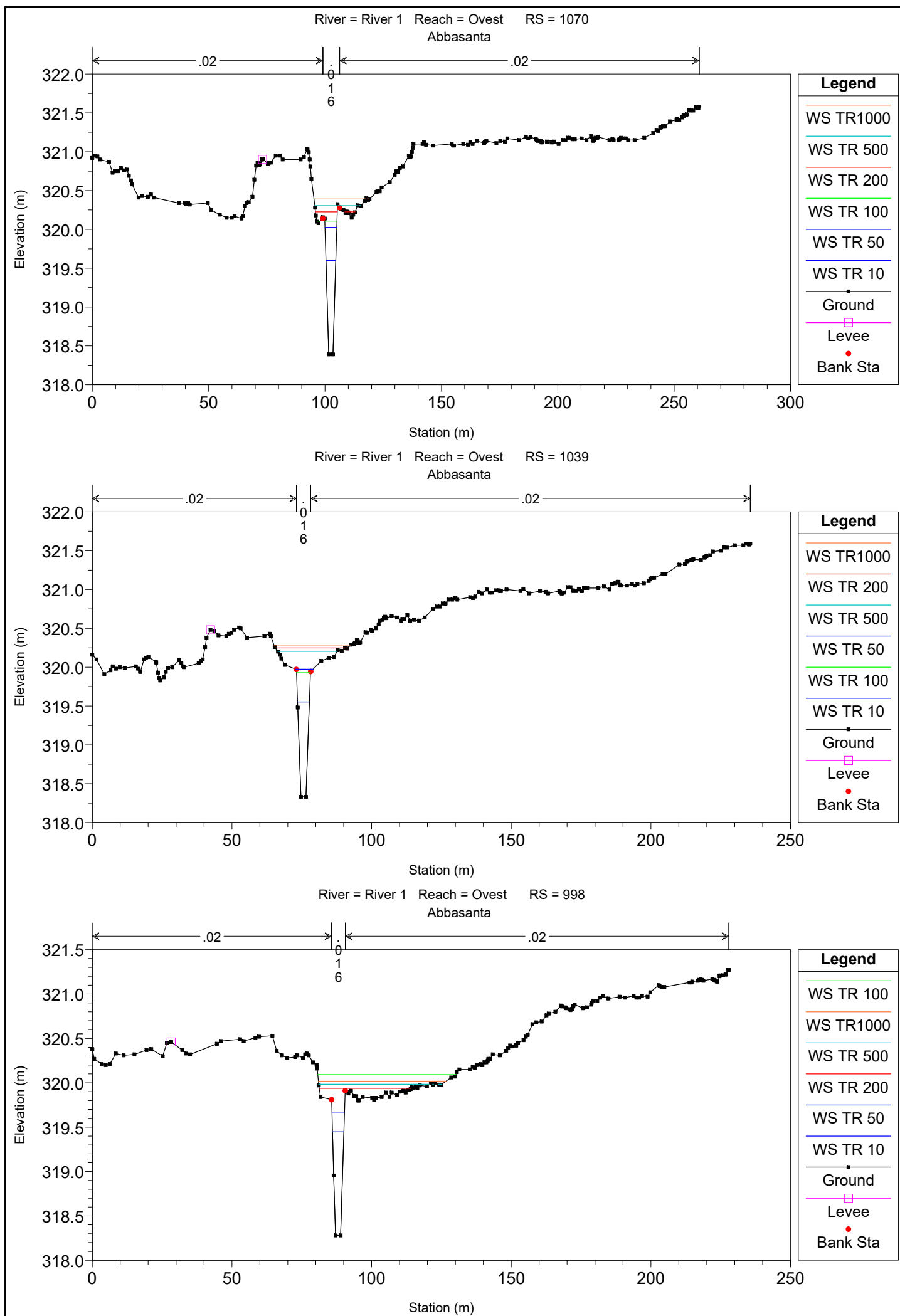


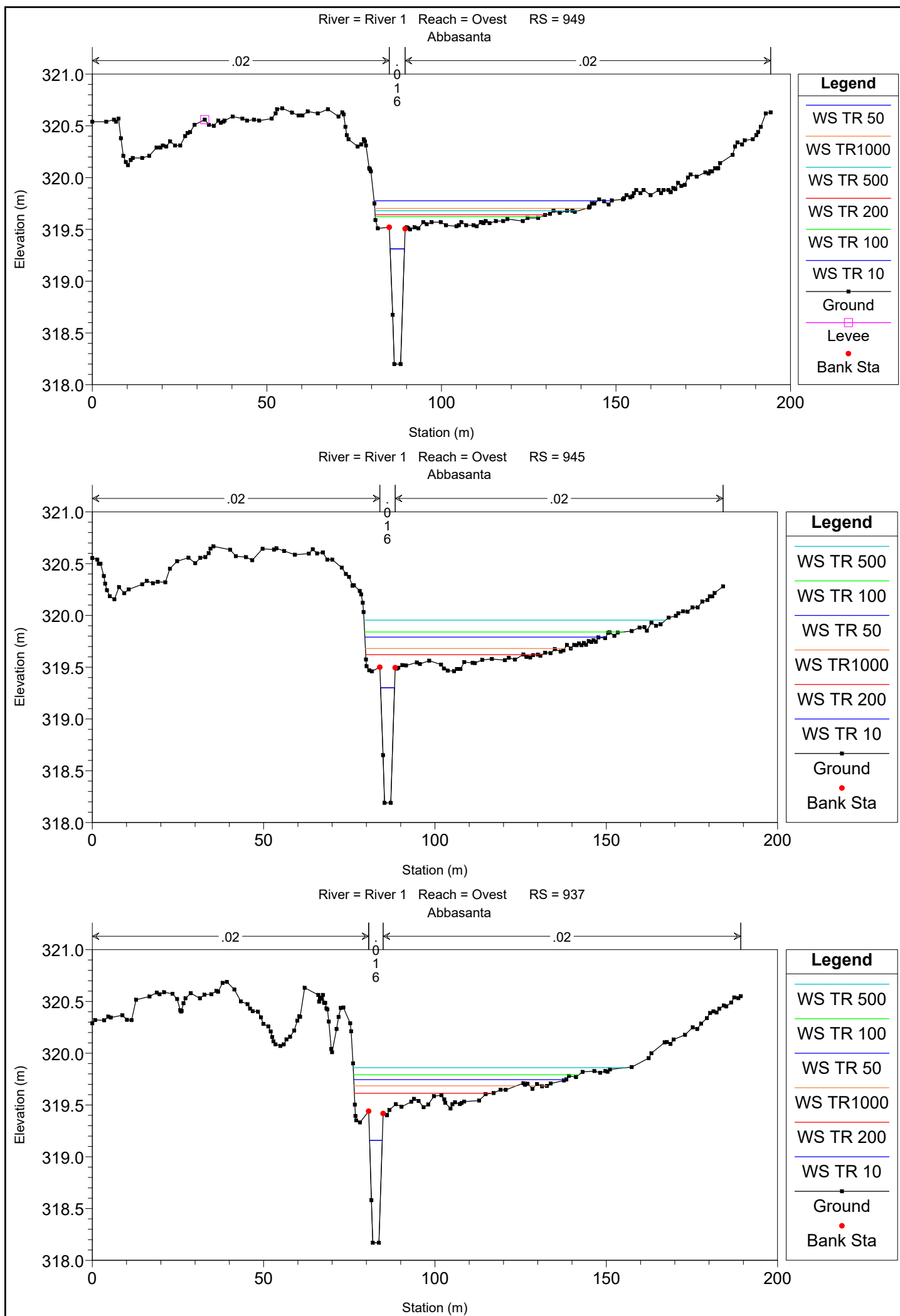


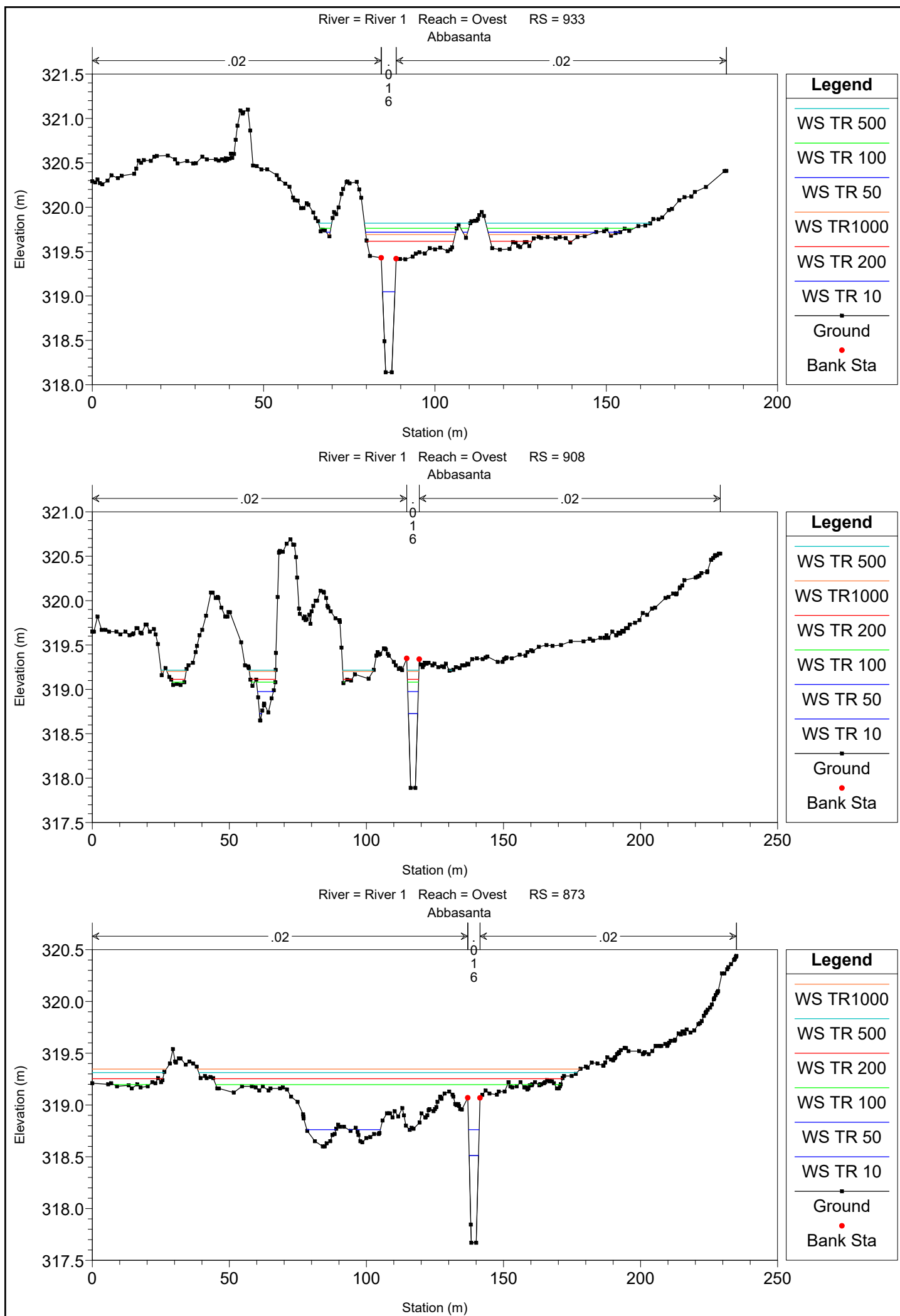


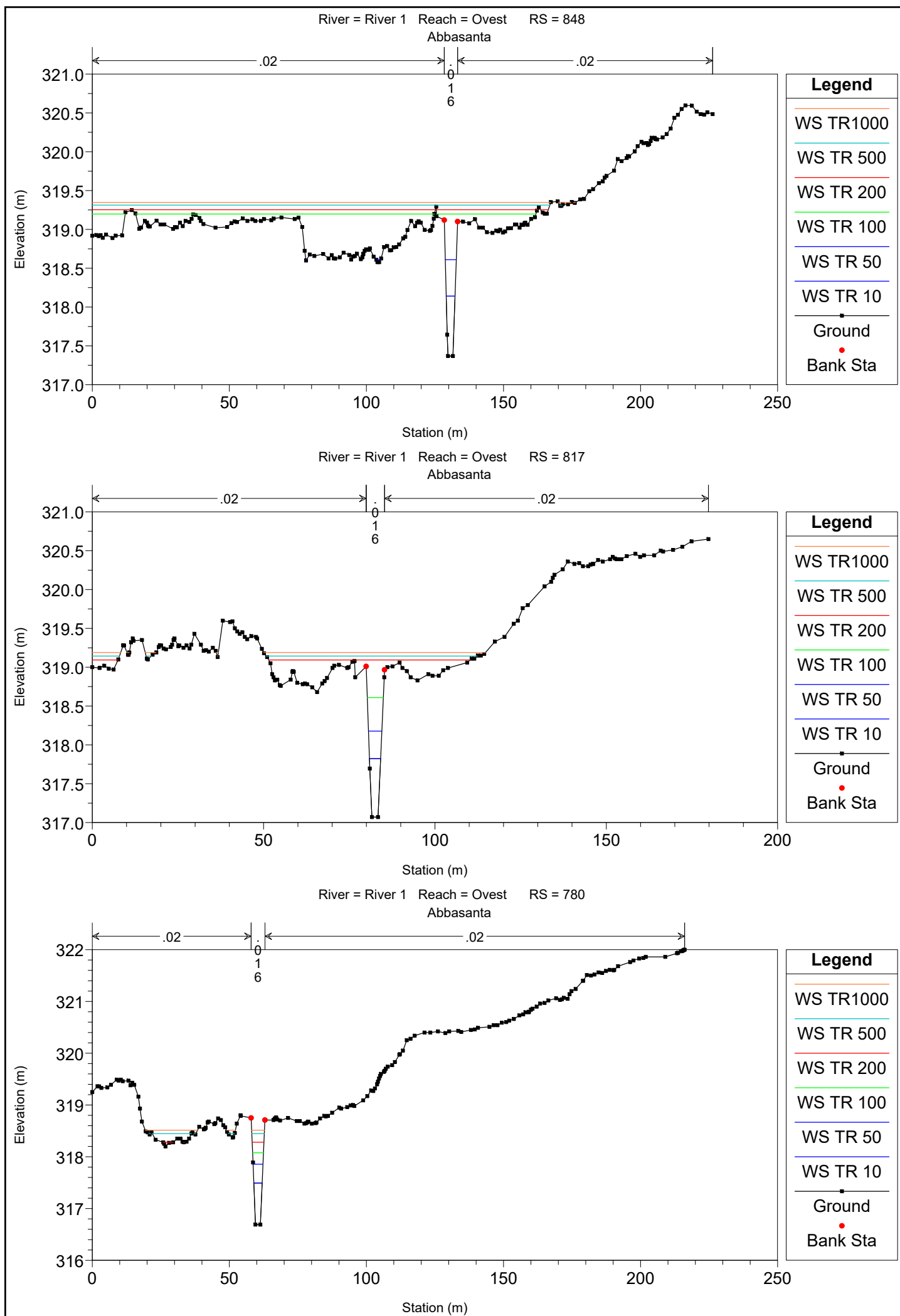




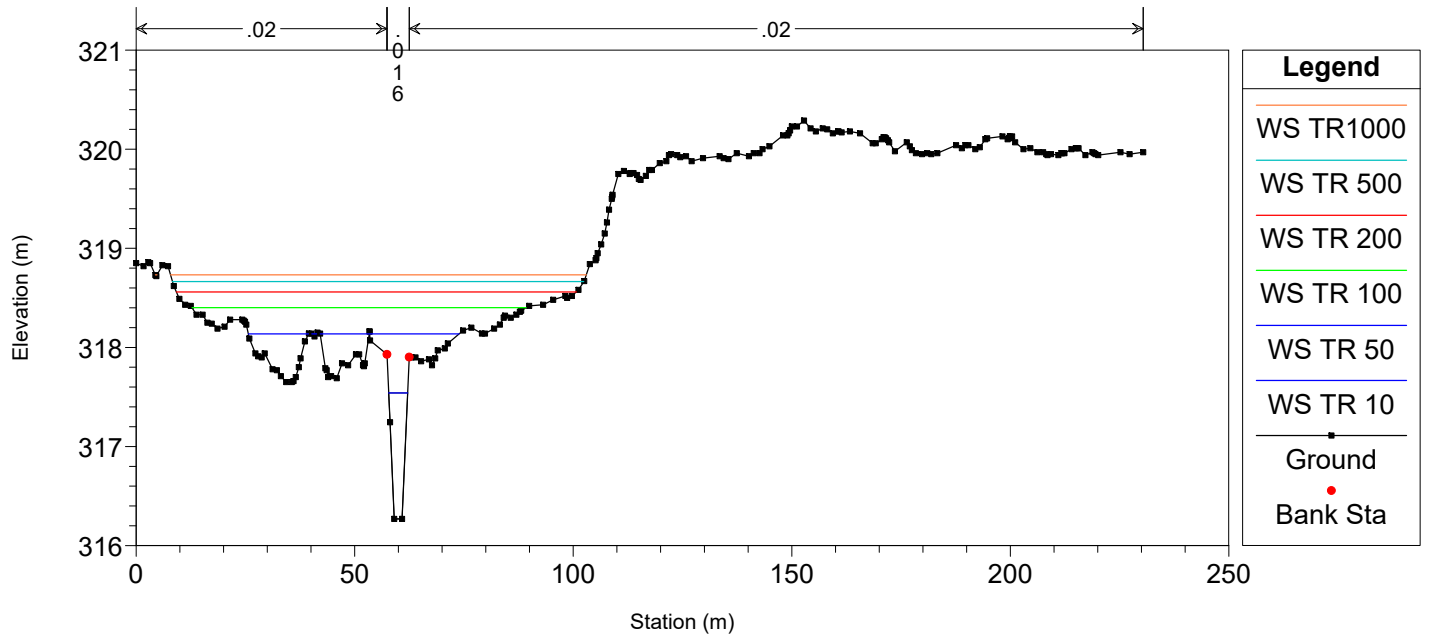




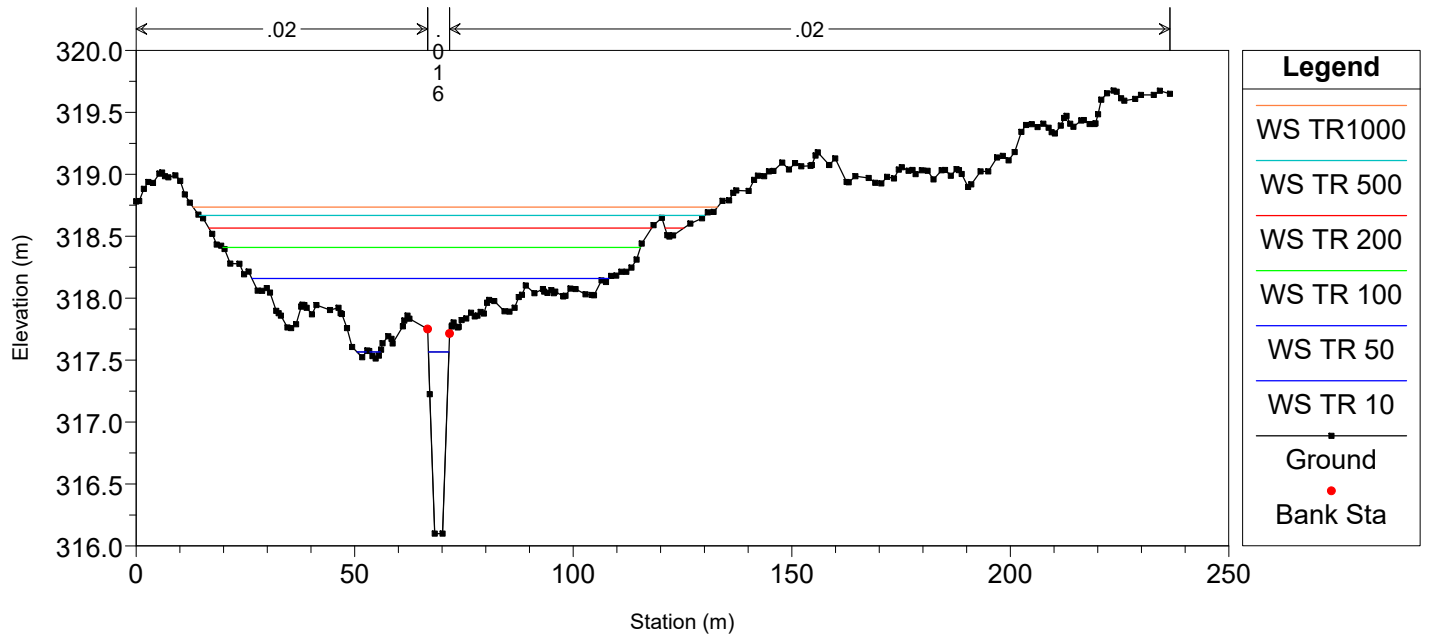




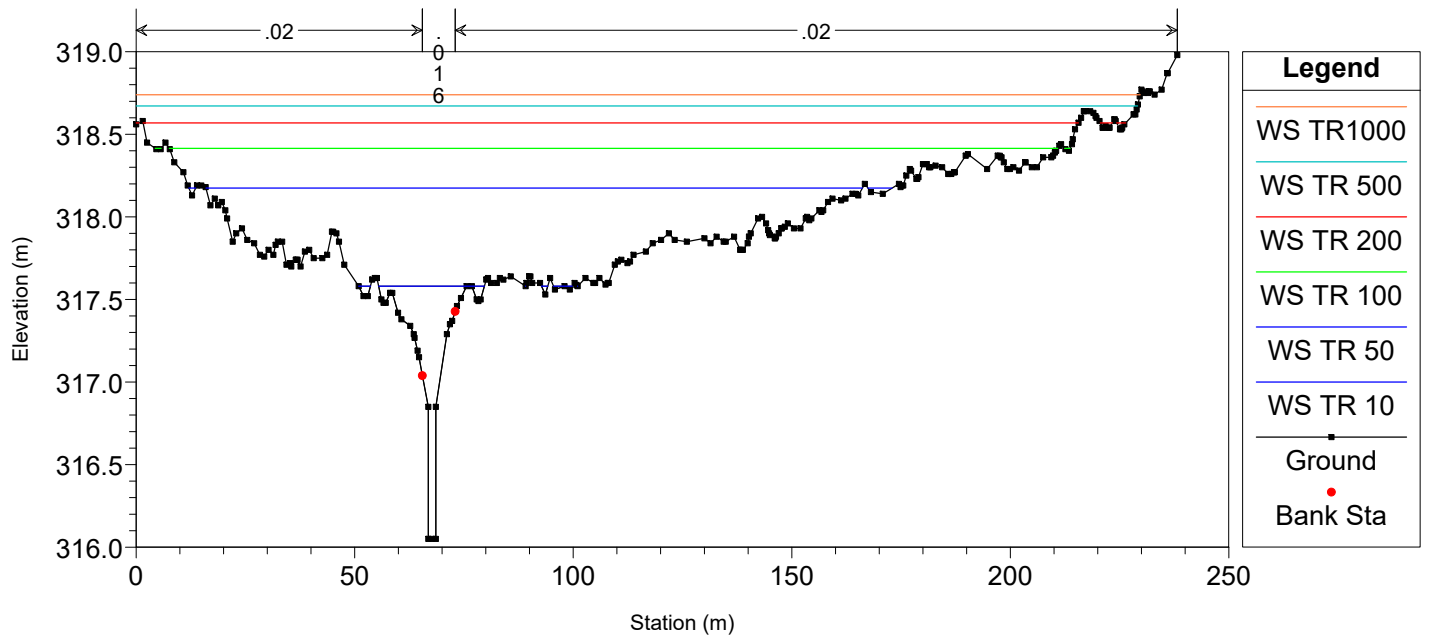
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Abbasanta

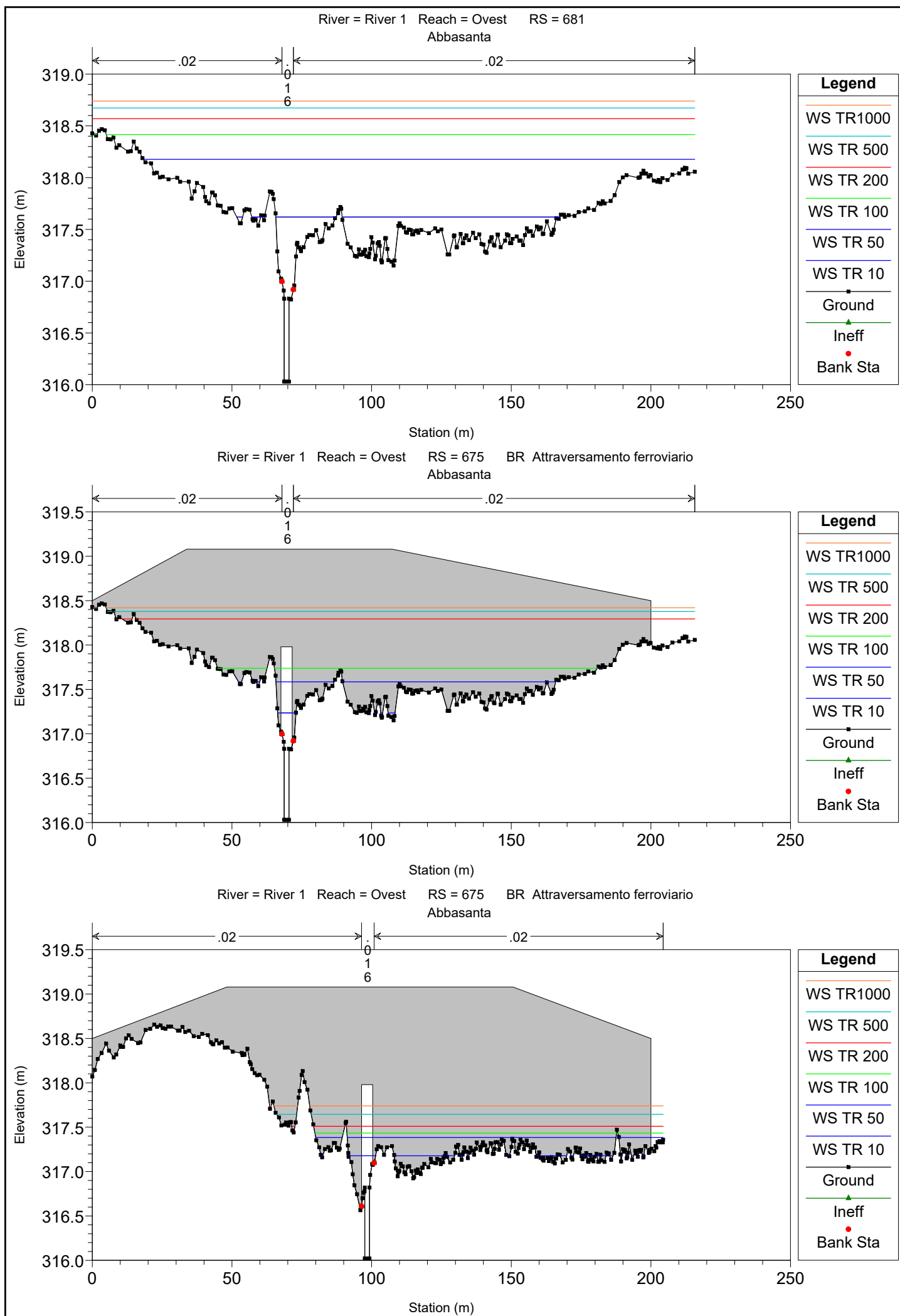


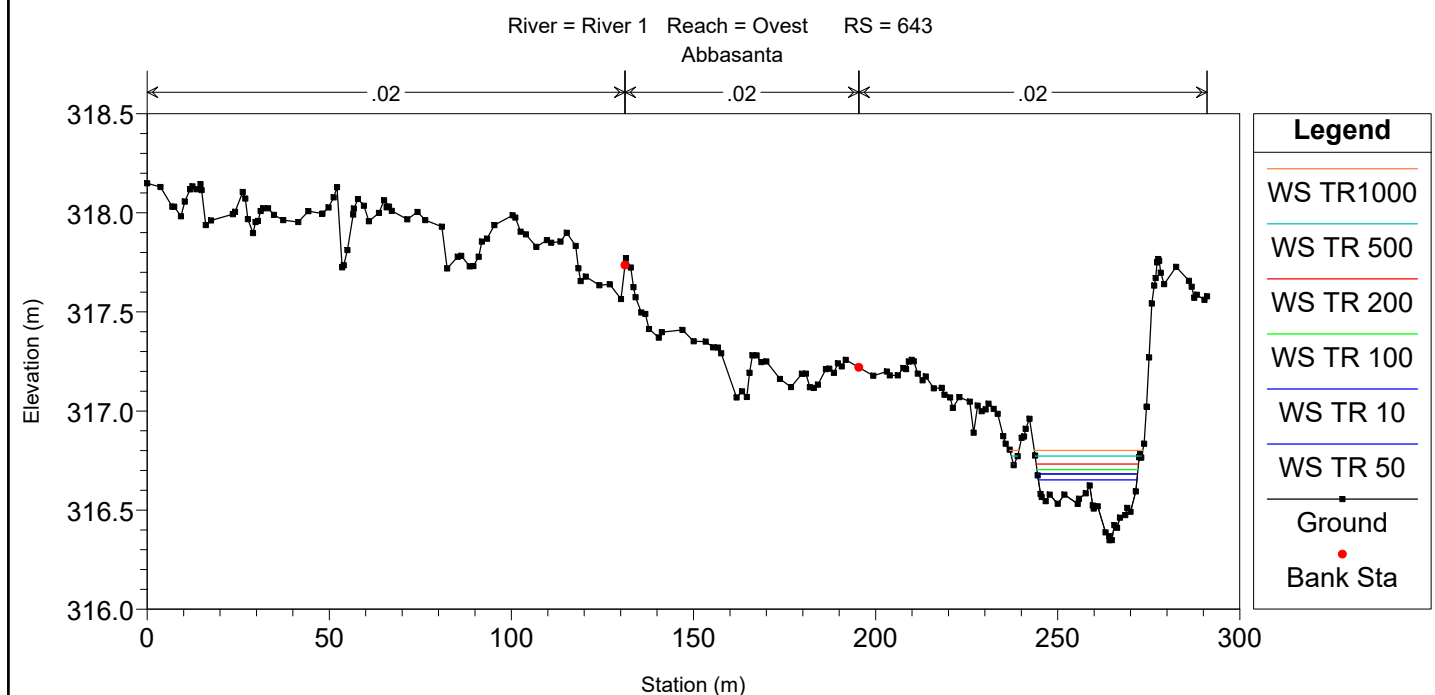
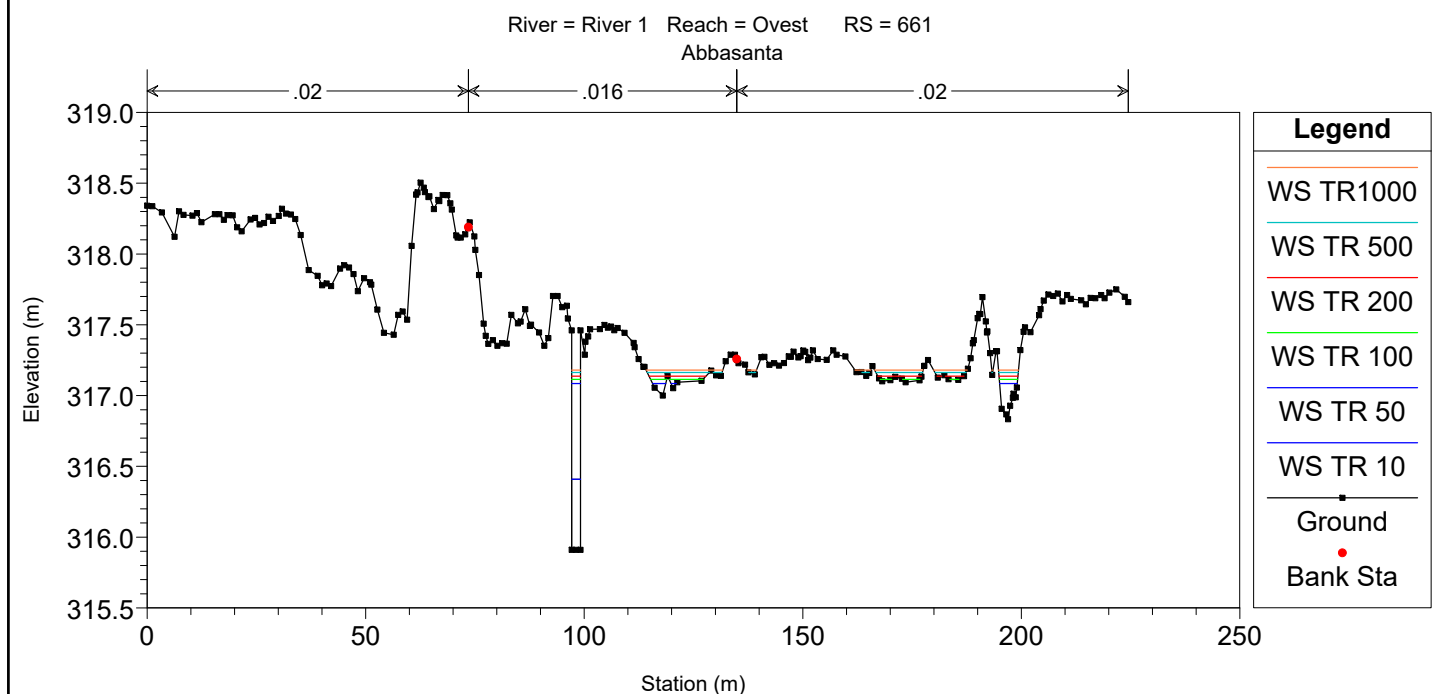
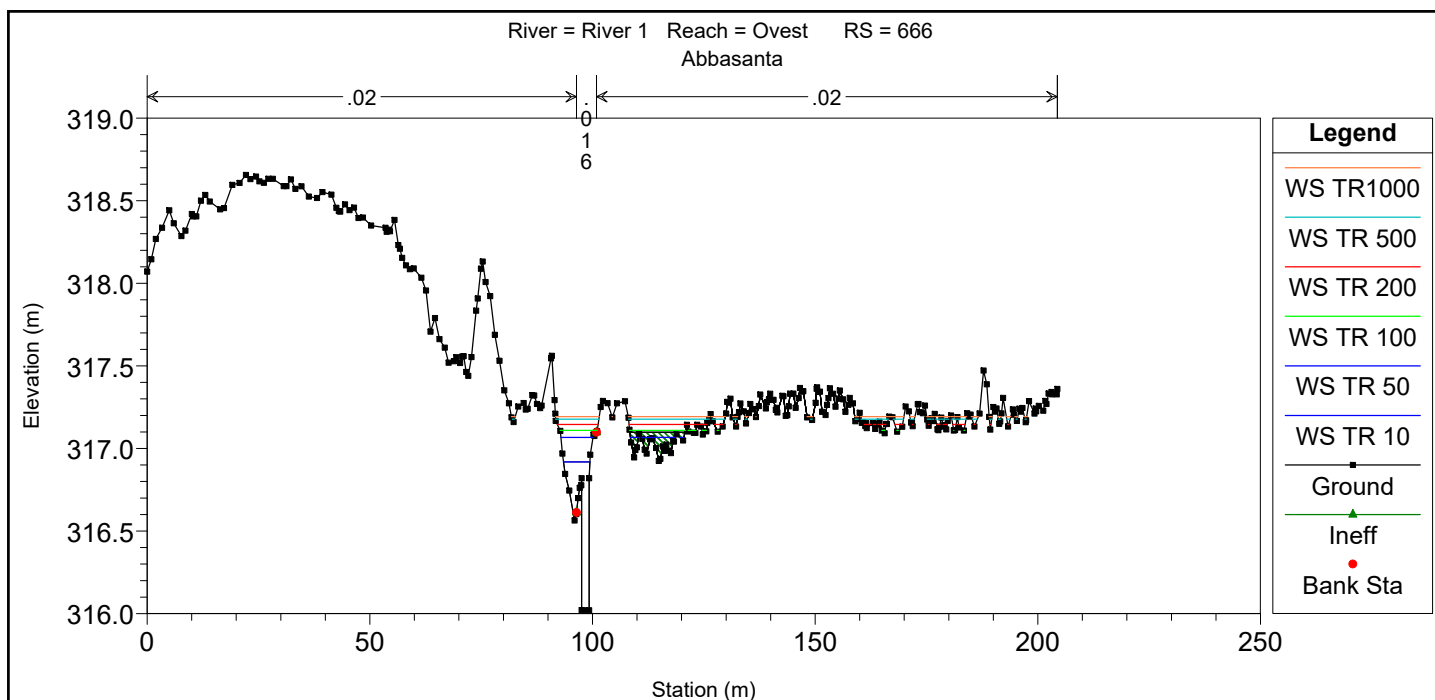
River = River 1 Reach = Ovest
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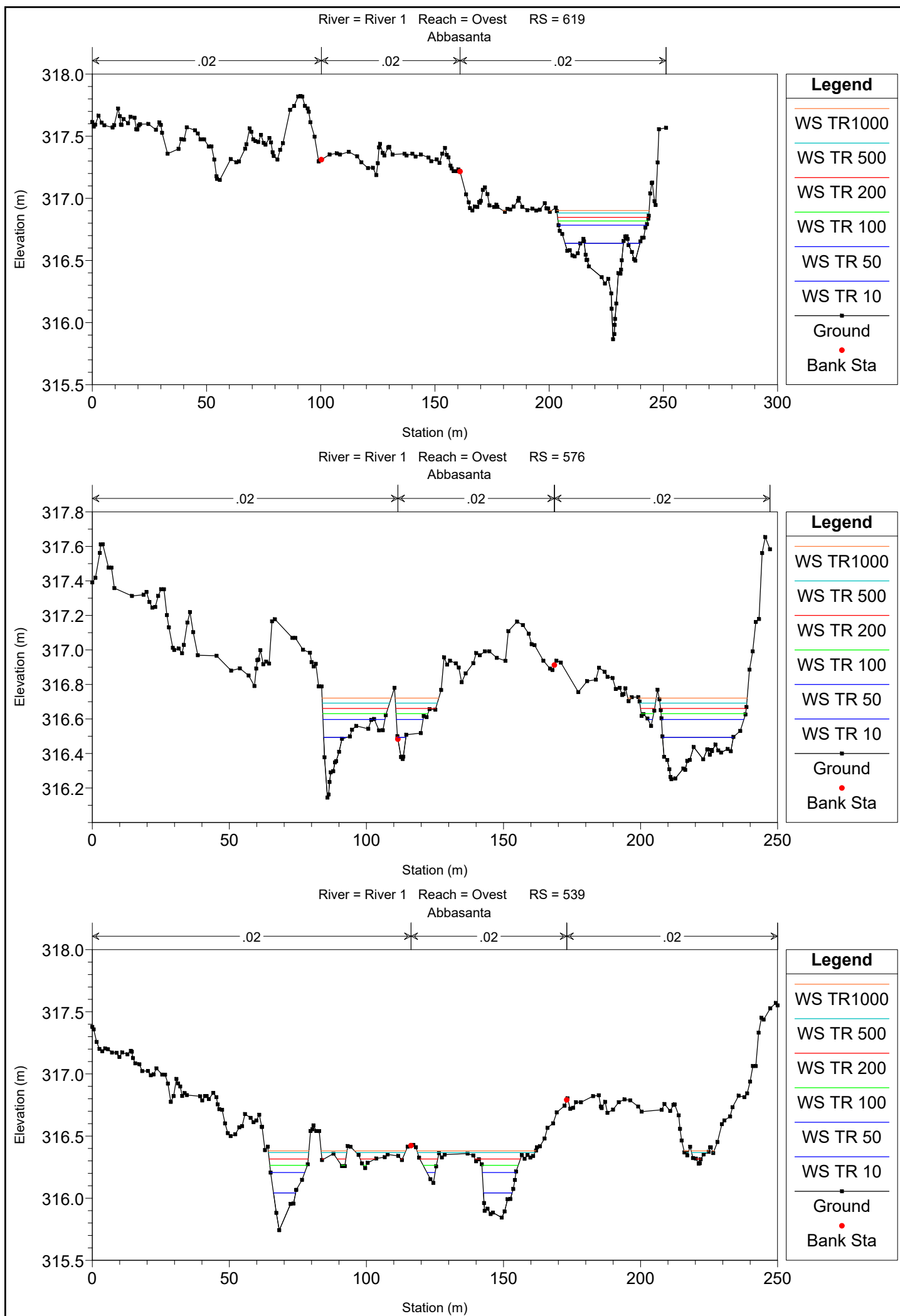


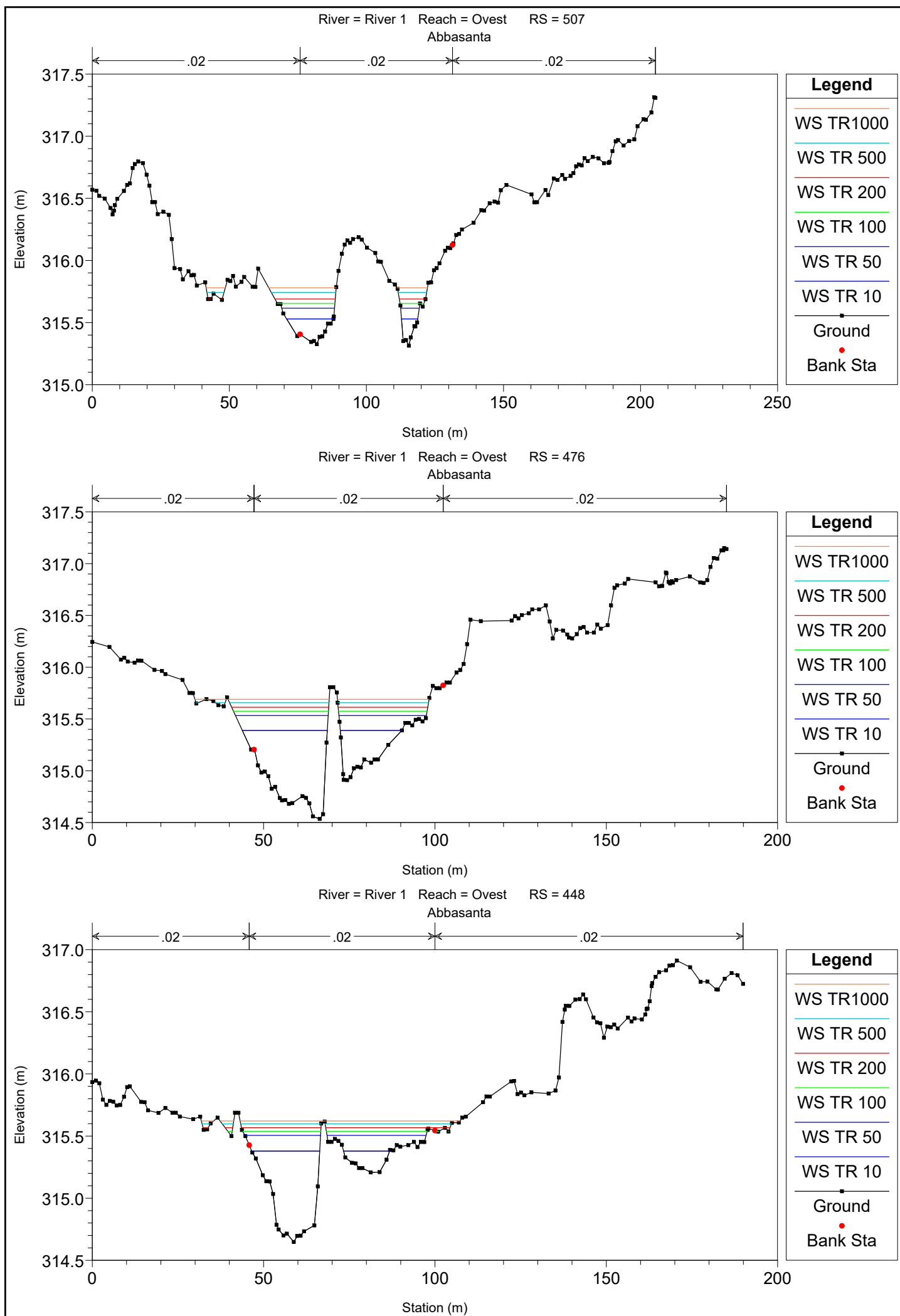
River = River 1 Reach = Ovest
Abbasanta



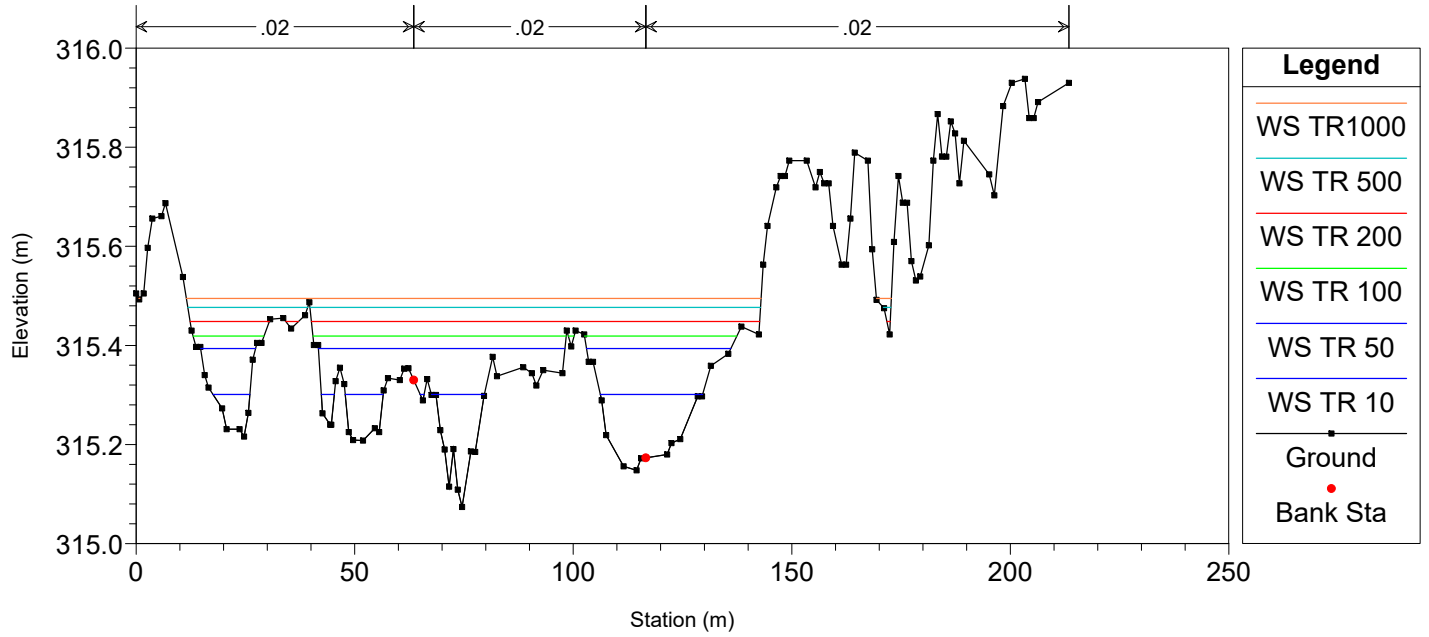




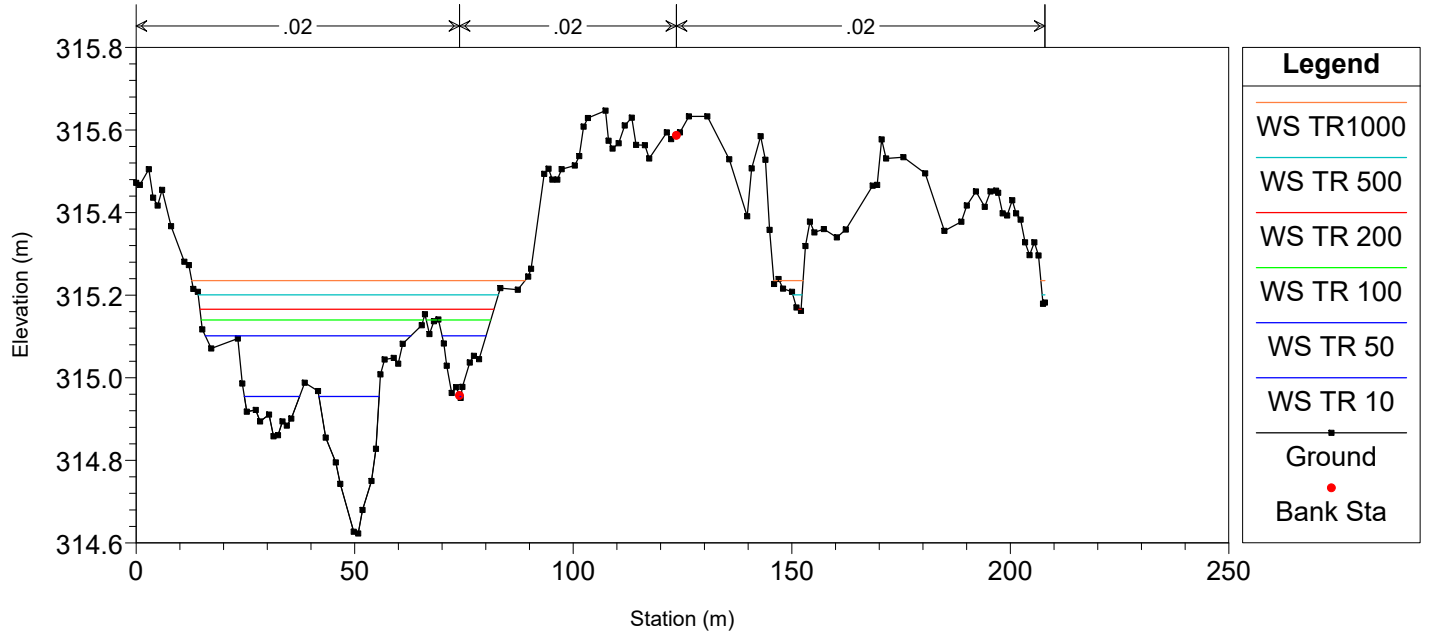




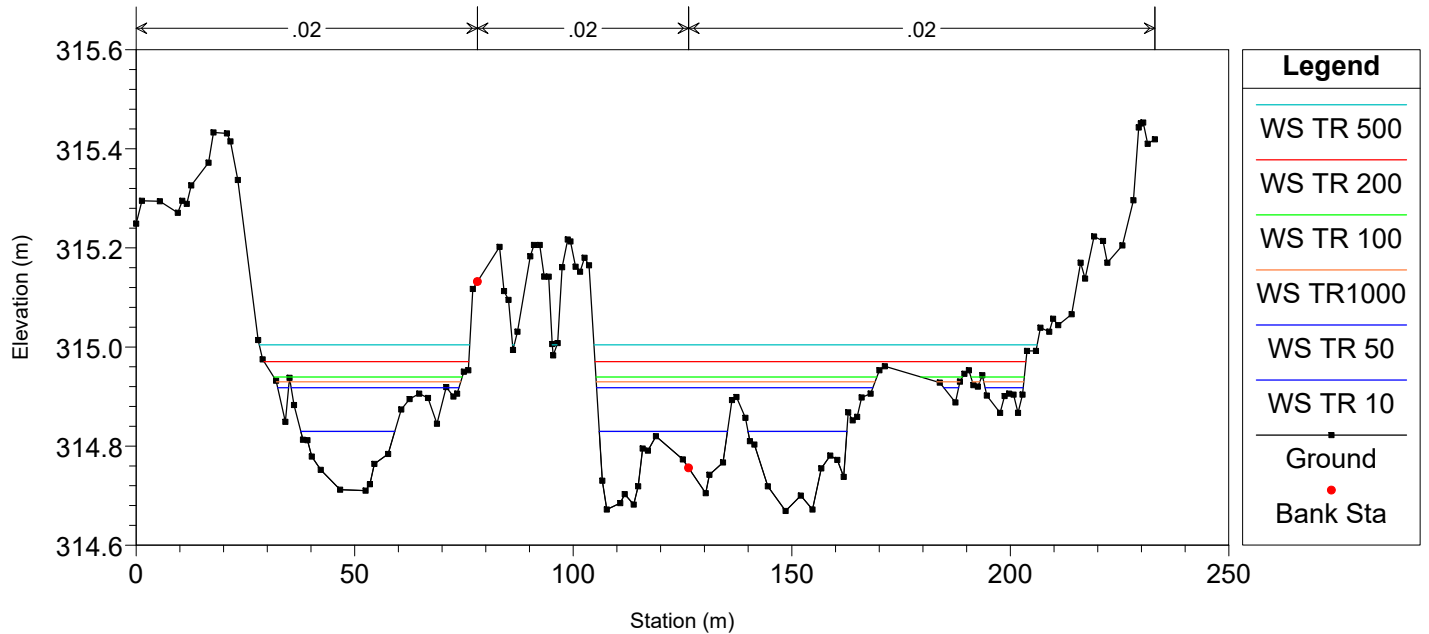
River = River 1 Reach = Ovest RS = 401
Abbasanta



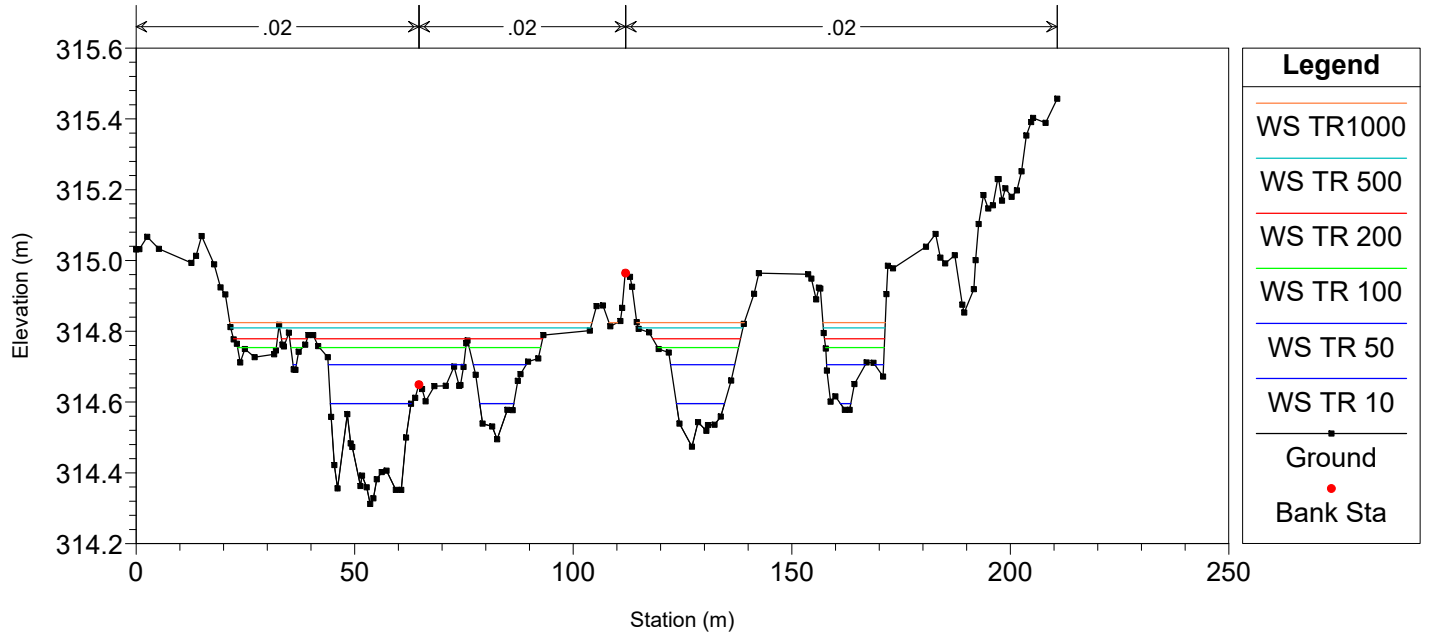
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Abbasanta



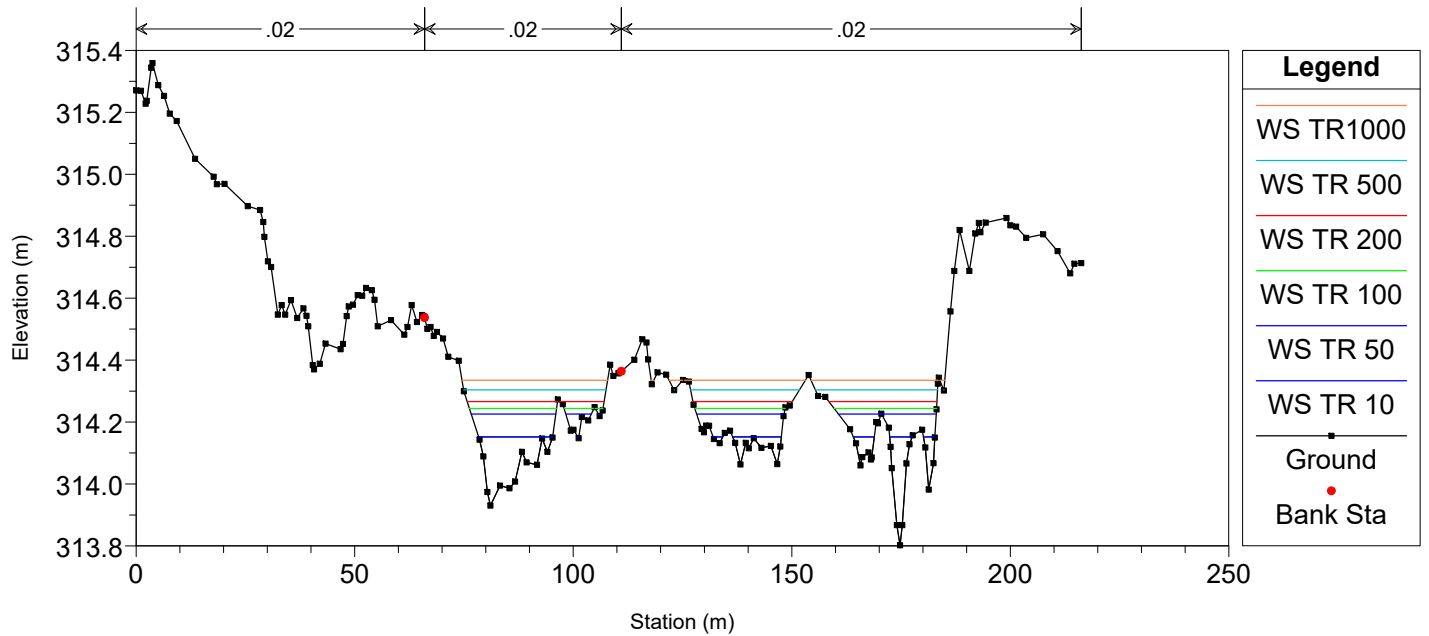
River = River 1 Reach = Ovest RS = 333
Abbasanta



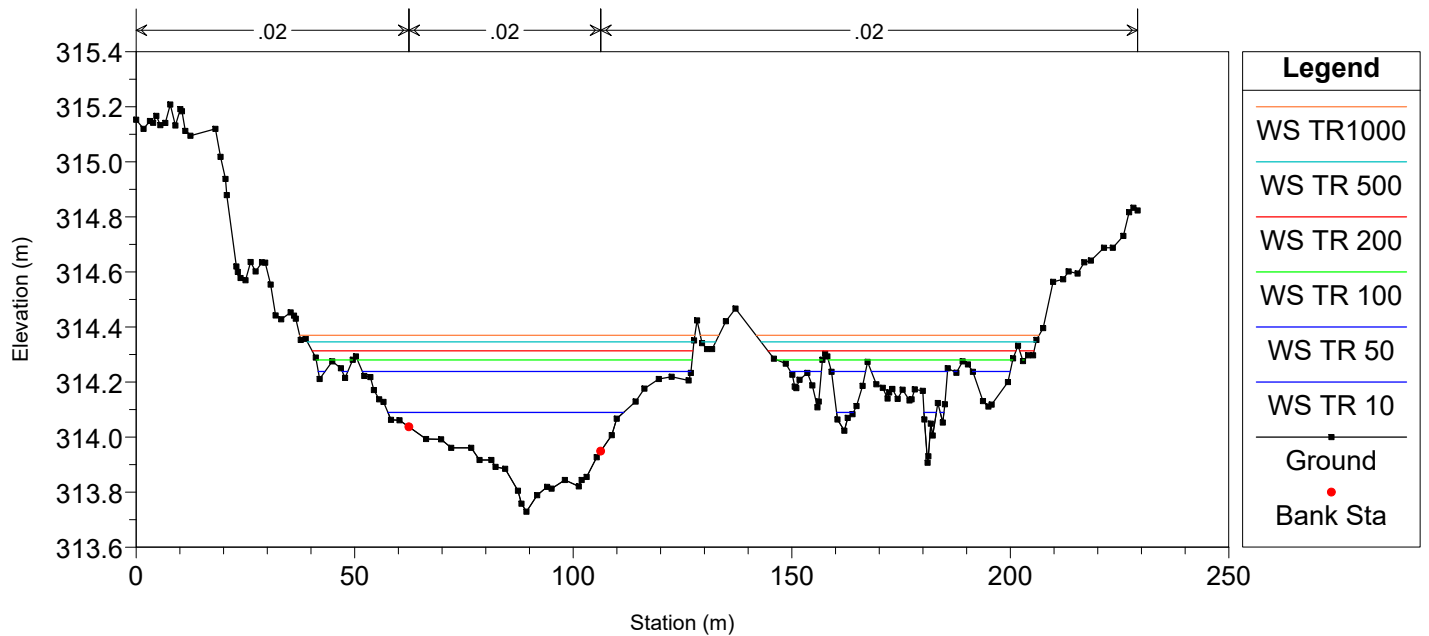
River = River 1 Reach = Ovest
Abbasanta RS = 295

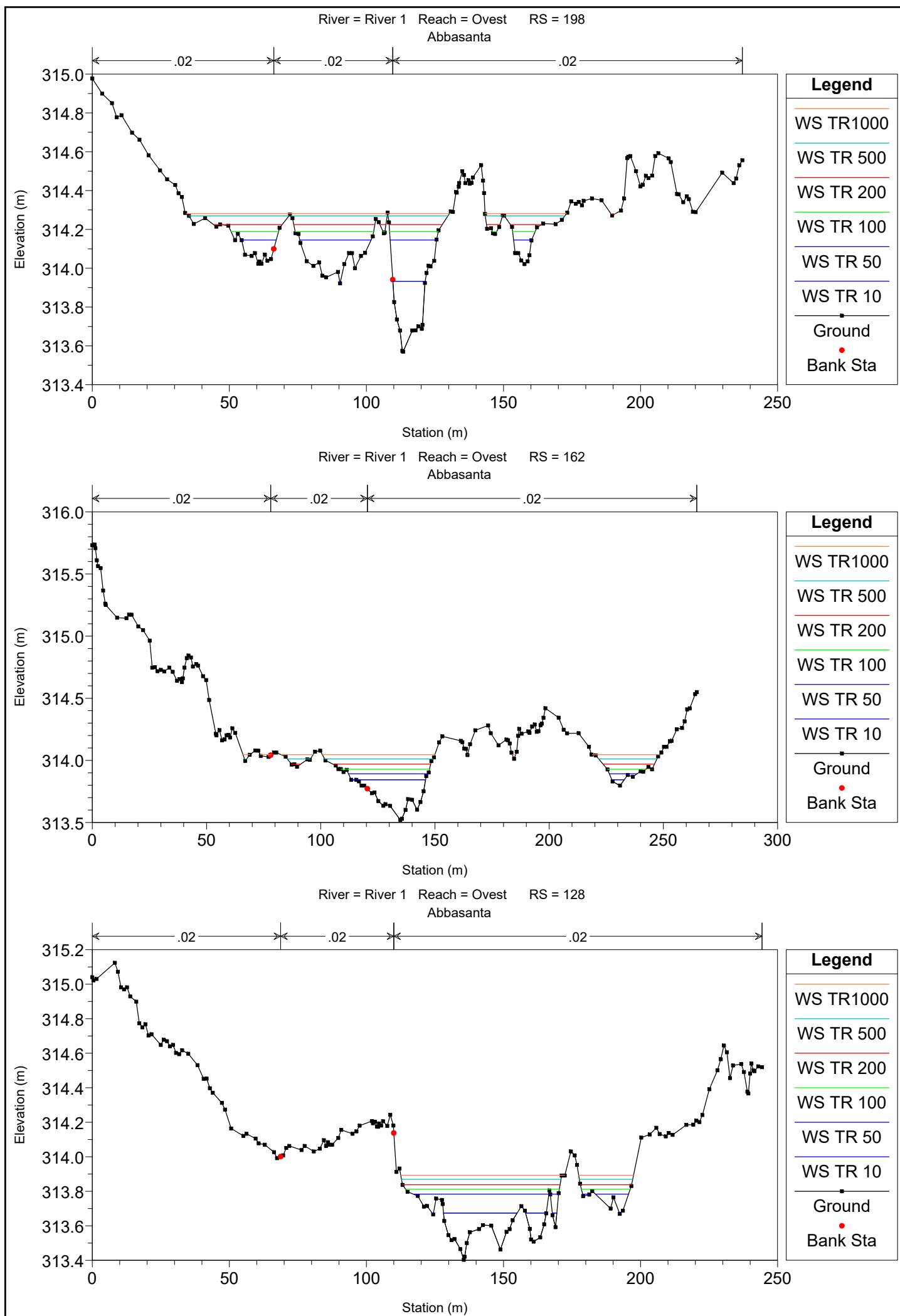


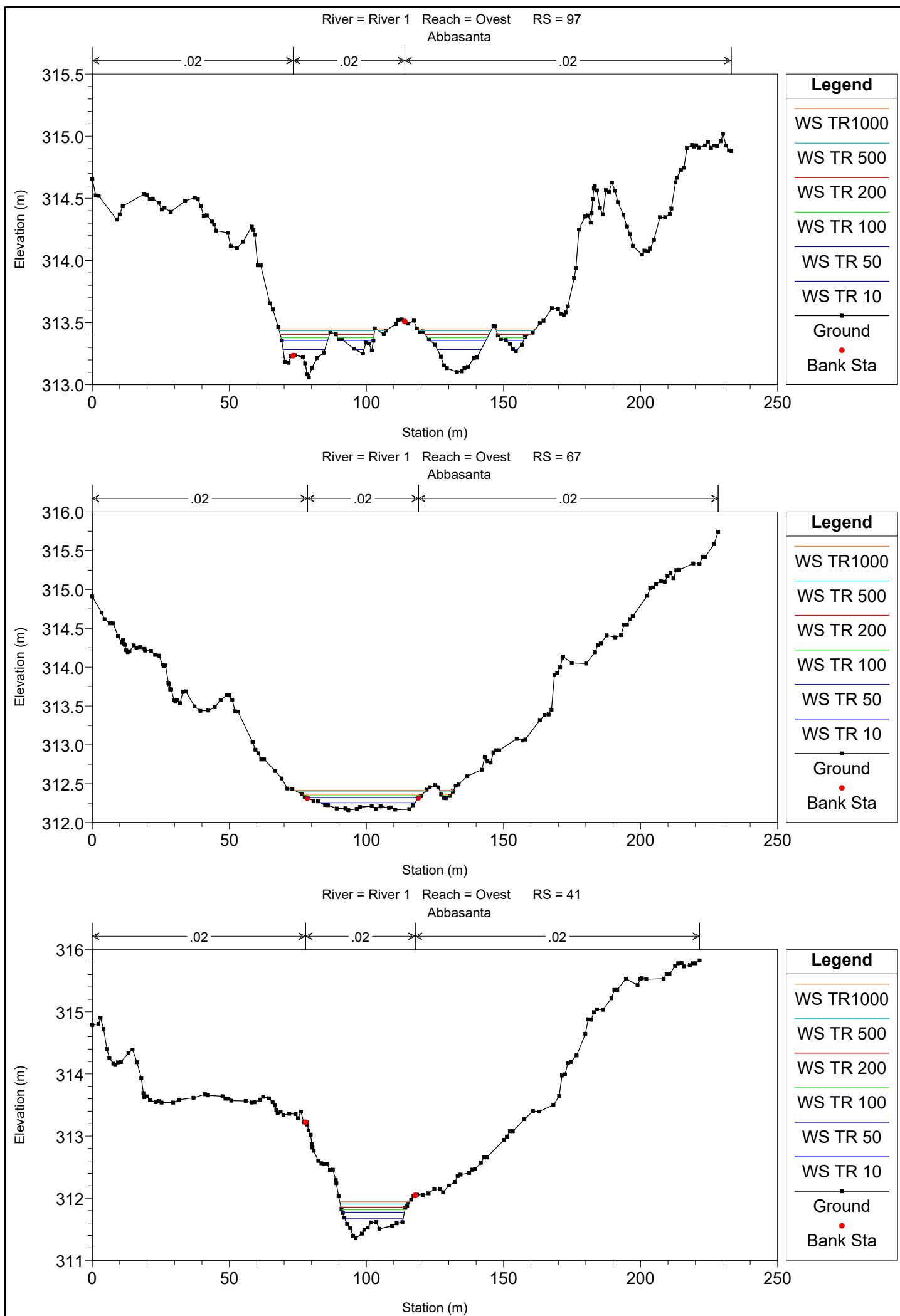
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Abbasanta RS = 241

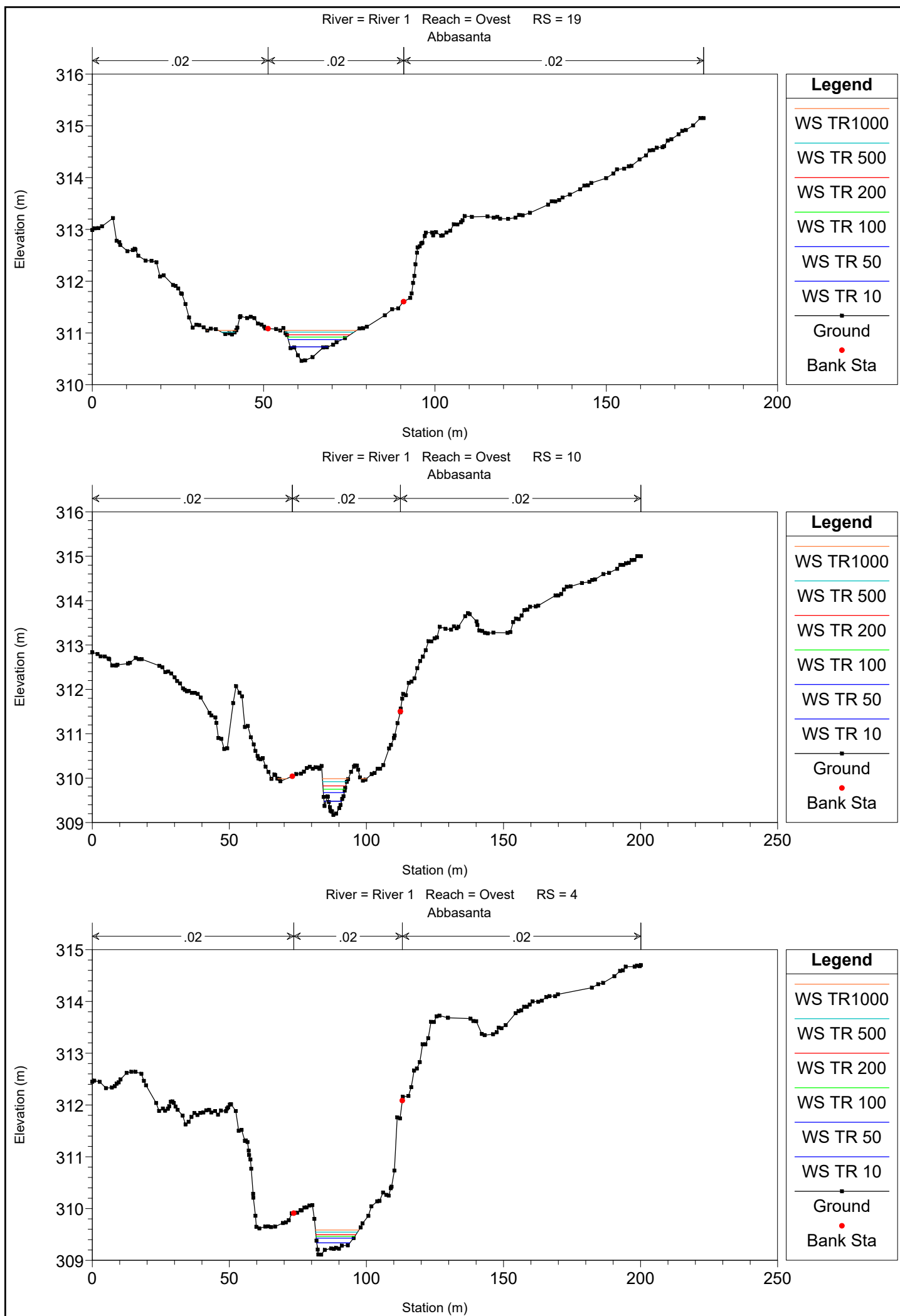


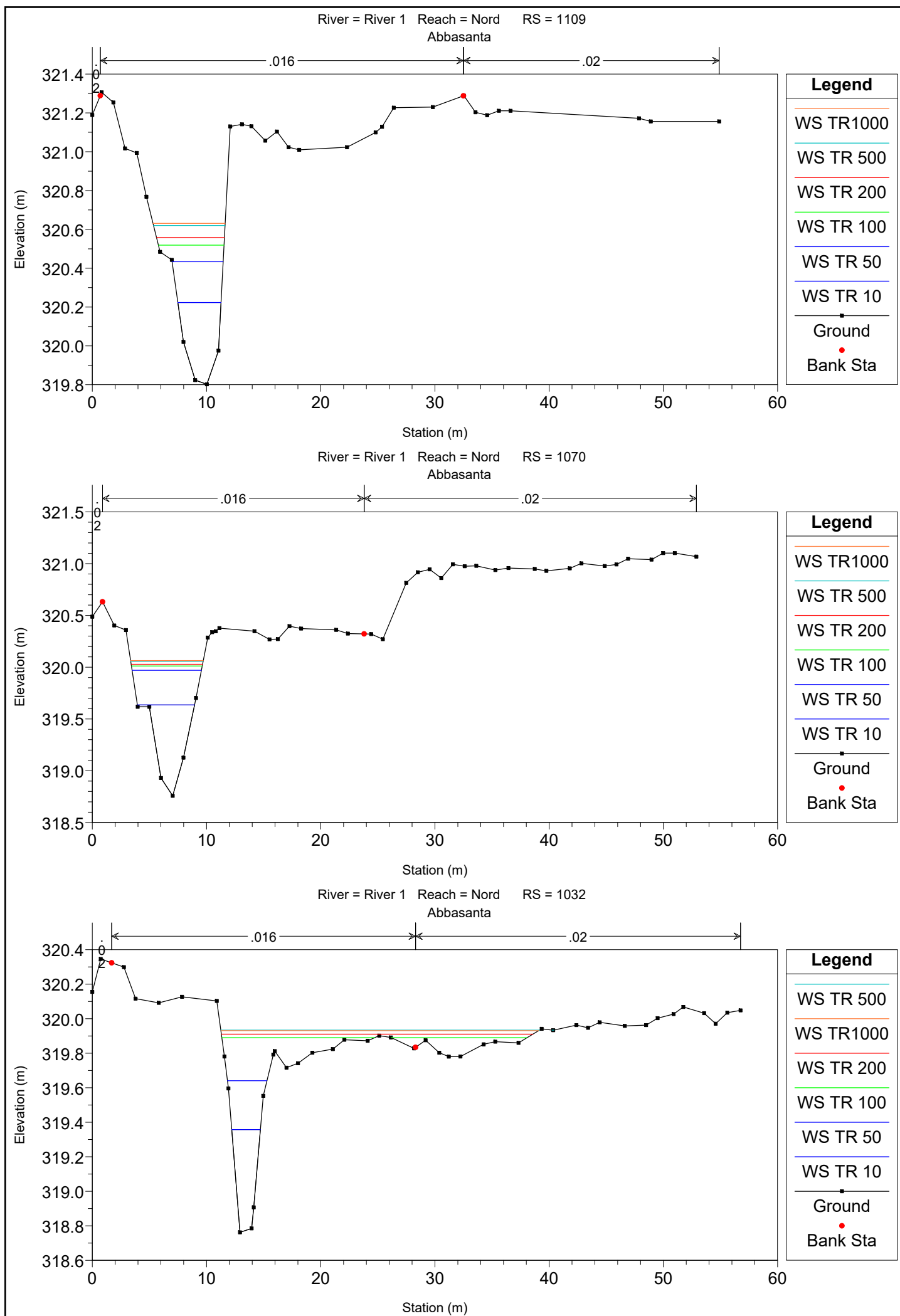
River = River 1 Reach = Ovest
Abbasanta RS = 216

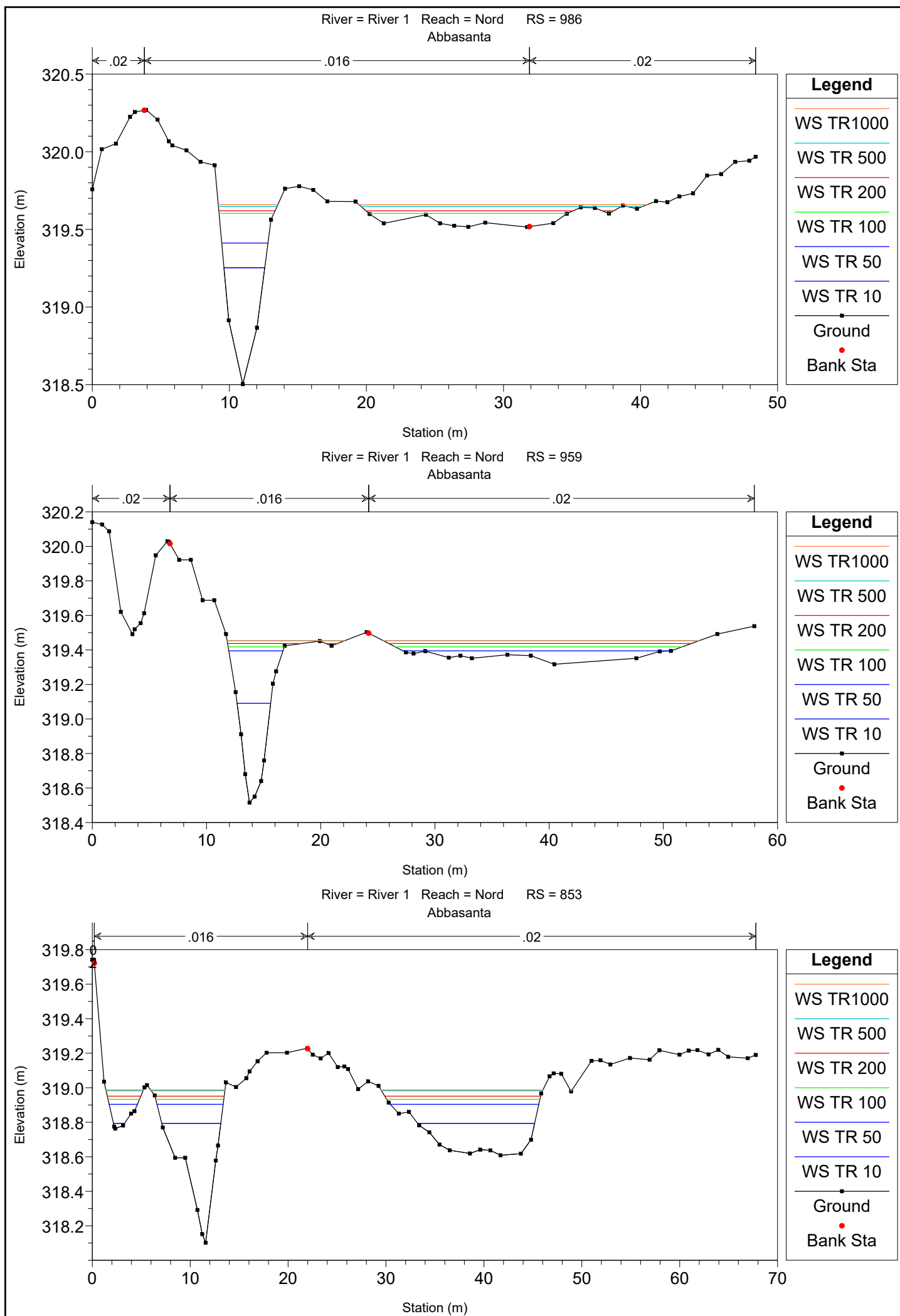


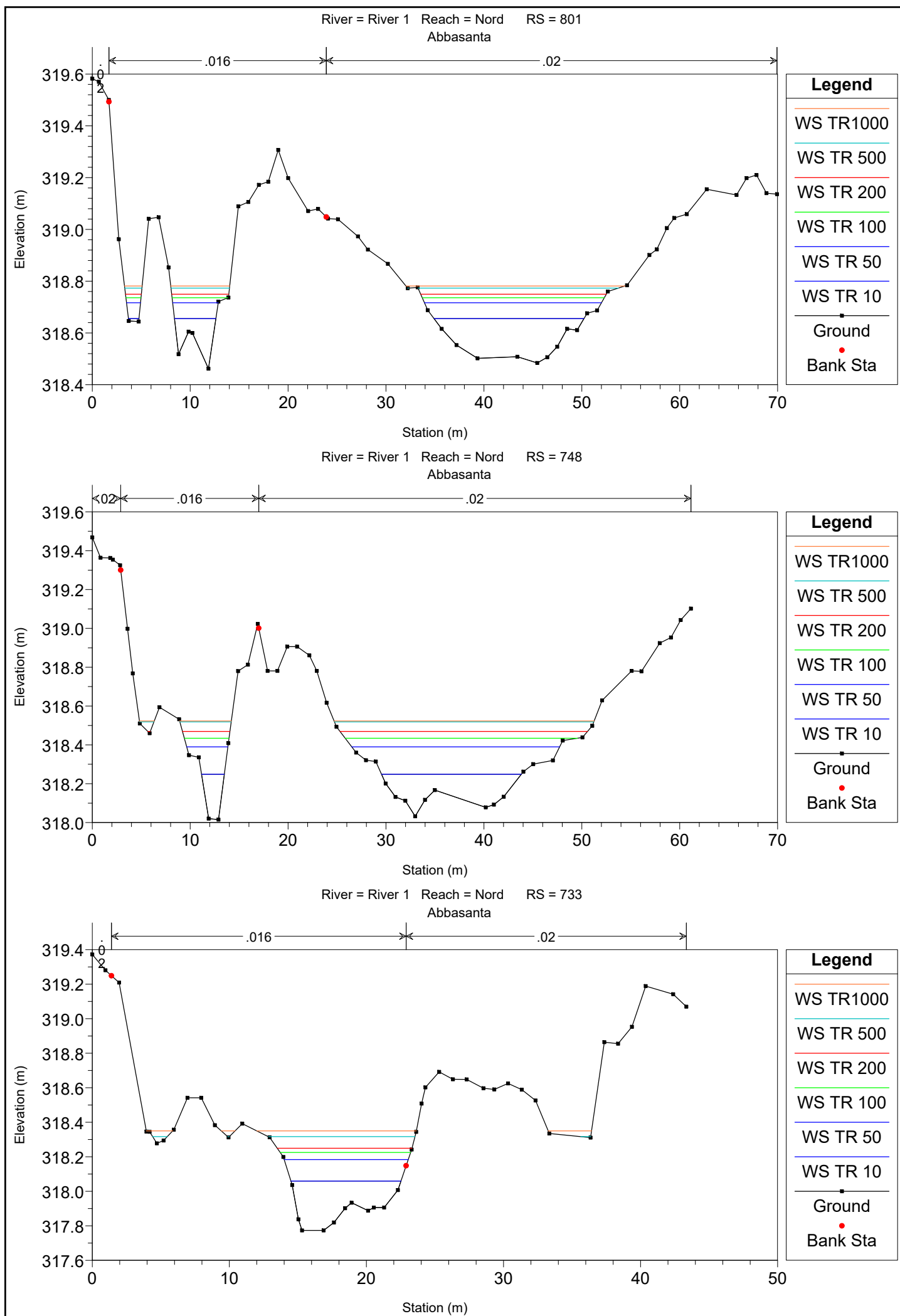












Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	2164	TR 10	2.04	323.37	323.56	0.19	49.83	0.61	0.66	0.80
Ovest	2164	TR 50	3.76	323.37	323.59	0.22	66.23	0.72	0.78	0.85
Ovest	2164	TR 100	4.64	323.37	323.60	0.23	73.74	0.75	0.83	0.86
Ovest	2164	TR 200	5.55	323.37	323.61	0.24	78.11	0.80	0.87	0.89
Ovest	2164	TR 500	6.85	323.37	323.63	0.26	85.90	0.82	0.89	0.89
Ovest	2164	TR1000	7.94	323.37	323.64	0.27	89.13	0.86	0.93	0.91
Ovest	2086	TR 10	2.04	323.02	323.17	0.15	44.88	0.76	0.76	0.99
Ovest	2086	TR 50	3.76	323.02	323.20	0.18	56.72	0.87	0.88	1.00
Ovest	2086	TR 100	4.64	323.02	323.21	0.19	58.75	0.93	0.94	1.01
Ovest	2086	TR 200	5.55	323.02	323.23	0.21	60.26	0.96	0.98	0.99
Ovest	2086	TR 500	6.85	323.02	323.24	0.22	63.14	1.03	1.05	1.02
Ovest	2086	TR1000	7.94	323.02	323.25	0.23	64.80	1.07	1.08	1.00
Ovest	1999	TR 10	2.04	322.32	322.52	0.20	49.28	0.48	0.48	0.52
Ovest	1999	TR 50	3.76	322.32	322.50	0.18	40.09	1.18	1.18	1.33
Ovest	1999	TR 100	4.64	322.32	322.51	0.19	43.80	1.24	1.24	1.35
Ovest	1999	TR 200	5.55	322.32	322.52	0.20	46.75	1.33	1.33	1.43
Ovest	1999	TR 500	6.85	322.32	322.54	0.22	56.57	1.34	1.34	1.42
Ovest	1999	TR1000	7.94	322.32	322.55	0.23	58.43	1.43	1.43	1.48
Ovest	1930	TR 10	2.04	321.92	322.53	0.61	115.42	0.05	0.05	0.03
Ovest	1930	TR 50	3.76	321.92	322.53	0.61	115.41	0.09	0.09	0.05
Ovest	1930	TR 100	4.64	321.92	322.53	0.61	115.40	0.11	0.11	0.06
Ovest	1930	TR 200	5.55	321.92	322.53	0.61	115.38	0.14	0.14	0.07
Ovest	1930	TR 500	6.85	321.92	322.53	0.61	115.36	0.17	0.17	0.09
Ovest	1930	TR1000	7.94	321.92	322.53	0.61	115.34	0.20	0.20	0.11
Ovest	1831	TR 10	2.04	321.29	322.53	1.25	349.11	0.01	0.01	0.00
Ovest	1831	TR 50	3.76	321.29	322.53	1.25	349.10	0.02	0.02	0.01
Ovest	1831	TR 100	4.64	321.29	322.53	1.25	349.10	0.02	0.03	0.01
Ovest	1831	TR 200	5.55	321.29	322.53	1.25	349.10	0.03	0.03	0.01
Ovest	1831	TR 500	6.85	321.29	322.53	1.25	349.10	0.03	0.04	0.01
Ovest	1831	TR1000	7.94	321.29	322.53	1.25	349.09	0.04	0.05	0.02
Ovest	1758	TR 10	2.04	321.32	322.53	1.21	355.26	0.01	0.01	0.00
Ovest	1758	TR 50	3.76	321.32	322.53	1.21	355.26	0.01	0.01	0.00
Ovest	1758	TR 100	4.64	321.32	322.53	1.21	355.26	0.01	0.02	0.01
Ovest	1758	TR 200	5.55	321.32	322.53	1.21	355.25	0.02	0.02	0.01
Ovest	1758	TR 500	6.85	321.32	322.53	1.21	355.25	0.02	0.03	0.01
Ovest	1758	TR1000	7.94	321.32	322.53	1.21	355.25	0.03	0.03	0.01
Ovest	1741	TR 10	2.04	320.96	322.53	1.57	394.87	0.01	0.01	0.00
Ovest	1741	TR 50	3.76	320.96	322.53	1.57	394.87	0.01	0.02	0.00
Ovest	1741	TR 100	4.64	320.96	322.53	1.57	394.87	0.02	0.02	0.01
Ovest	1741	TR 200	5.55	320.96	322.53	1.57	394.87	0.02	0.02	0.01
Ovest	1741	TR 500	6.85	320.96	322.53	1.57	394.87	0.02	0.03	0.01
Ovest	1741	TR1000	7.94	320.96	322.53	1.57	394.87	0.03	0.03	0.01
Ovest	1740		Culvert							
Ovest	1703	TR 10	2.04	320.86	321.45	0.64	140.42	0.13	0.11	0.12
Ovest	1703	TR 50	3.76	320.86	321.51	0.71	180.91	0.15	0.14	0.13
Ovest	1703	TR 100	4.64	320.86	321.52	0.72	189.59	0.17	0.15	0.14
Ovest	1703	TR 200	5.55	320.86	321.54	0.74	198.61	0.18	0.17	0.15
Ovest	1703	TR 500	6.85	320.86	321.56	0.76	203.51	0.19	0.19	0.15
Ovest	1703	TR1000	7.94	320.86	321.58	0.78	208.40	0.20	0.20	0.16
Ovest	1627	TR 10	3.75	321.17	321.41	0.23	130.64	0.45	0.80	0.72
Ovest	1627	TR 50	7.03	321.17	321.48	0.31	181.57	0.35	0.59	0.43
Ovest	1627	TR 100	8.63	321.17	321.49	0.32	184.87	0.40	0.67	0.47
Ovest	1627	TR 200	10.29	321.17	321.50	0.33	190.19	0.42	0.69	0.47
Ovest	1627	TR 500	12.61	321.17	321.53	0.35	198.55	0.44	0.72	0.48
Ovest	1627	TR1000	14.48	321.17	321.54	0.37	207.59	0.46	0.76	0.49
Ovest	1602	TR 10	3.75	320.17	321.01	0.84	2.69	2.41	2.41	1.01
Ovest	1602	TR 50	7.03	320.17	321.48	1.31	200.42	0.21	0.44	0.19
Ovest	1602	TR 100	8.63	320.17	321.48	1.31	203.00	0.24	0.51	0.22
Ovest	1602	TR 200	10.29	320.17	321.50	1.33	209.40	0.26	0.56	0.24
Ovest	1602	TR 500	12.61	320.17	321.52	1.35	217.40	0.29	0.61	0.26
Ovest	1602	TR1000	14.48	320.17	321.53	1.36	221.86	0.31	0.66	0.27

HEC-RAS Plan: Plan_w5_Ste (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	1587	TR 10	3.75	320.06	320.82	0.76	2.52	2.79	2.79	1.22
Ovest	1587	TR 50	7.03	320.06	321.46	1.40	165.71	0.36	0.85	0.36
Ovest	1587	TR 100	8.63	320.06	321.42	1.36	135.89	0.62	1.40	0.60
Ovest	1587	TR 200	10.29	320.06	321.44	1.38	158.28	0.59	1.38	0.59
Ovest	1587	TR 500	12.61	320.06	321.47	1.41	174.32	0.58	1.39	0.58
Ovest	1587	TR1000	14.48	320.06	321.49	1.43	180.53	0.58	1.38	0.57
Ovest	1571	TR 10	3.75	319.96	320.73	0.77	2.50	2.80	2.80	1.22
Ovest	1571	TR 50	7.03	319.96	321.45	1.49	148.72	0.31	0.71	0.28
Ovest	1571	TR 100	8.63	319.96	321.36	1.40	102.02	0.79	1.59	0.64
Ovest	1571	TR 200	10.29	319.96	321.39	1.43	124.02	0.74	1.59	0.64
Ovest	1571	TR 500	12.61	319.96	321.43	1.47	141.53	0.66	1.53	0.61
Ovest	1571	TR1000	14.48	319.96	321.44	1.48	144.83	0.69	1.59	0.63
Ovest	1539	TR 10	3.75	319.86	320.70	0.84	2.74	2.39	2.39	1.01
Ovest	1539	TR 50	7.03	319.86	321.02	1.16	3.41	2.74	2.74	1.01
Ovest	1539	TR 100	8.63	319.86	321.26	1.40	60.15	1.01	1.86	0.63
Ovest	1539	TR 200	10.29	319.86	321.30	1.44	81.68	0.90	1.86	0.63
Ovest	1539	TR 500	12.61	319.86	321.35	1.49	121.02	0.79	1.81	0.60
Ovest	1539	TR1000	14.48	319.86	321.37	1.51	134.74	0.78	1.85	0.61
Ovest	1529	TR 10	3.75	319.16	319.51	0.35	2.50	5.04	5.04	2.94
Ovest	1529	TR 50	7.03	319.16	319.71	0.55	2.90	5.43	5.43	2.60
Ovest	1529	TR 100	8.63	319.16	319.83	0.67	3.14	5.25	5.25	2.32
Ovest	1529	TR 200	10.29	319.16	319.94	0.78	3.37	5.10	5.10	2.10
Ovest	1529	TR 500	12.61	319.16	320.97	1.81	6.58	1.93	1.93	0.56
Ovest	1529	TR1000	14.48	319.16	321.00	1.84	8.51	2.12	2.15	0.62
Ovest	1524	TR 10	3.75	319.16	319.54	0.38	2.58	4.49	4.49	2.52
Ovest	1524	TR 50	7.03	319.16	319.74	0.58	2.99	5.03	5.03	2.35
Ovest	1524	TR 100	8.63	319.16	319.86	0.70	3.23	4.91	4.91	2.13
Ovest	1524	TR 200	10.29	319.16	320.84	1.68	5.24	1.74	1.74	0.52
Ovest	1524	TR 500	12.61	319.16	320.96	1.80	9.29	1.90	1.92	0.56
Ovest	1524	TR1000	14.48	319.16	321.00	1.84	10.84	2.06	2.13	0.62
Ovest	1514	TR 10	3.75	319.15	319.61	0.46	2.72	3.60	3.60	1.86
Ovest	1514	TR 50	7.03	319.15	320.49	1.34	4.48	1.68	1.68	0.55
Ovest	1514	TR 100	8.63	319.15	320.66	1.51	4.82	1.73	1.73	0.54
Ovest	1514	TR 200	10.29	319.15	320.83	1.68	5.17	1.76	1.76	0.53
Ovest	1514	TR 500	12.61	319.15	320.95	1.80	5.40	1.95	1.95	0

HEC-RAS Plan: Plan_w5_Ste (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	1245	TR 10	3.75	318.86	319.91	1.05	3.91	1.25	1.25	0.45
Ovest	1245	TR 50	7.03	318.86	320.42	1.56	4.92	1.34	1.34	0.42
Ovest	1245	TR 100	8.63	318.86	320.60	1.74	5.28	1.40	1.40	0.41
Ovest	1245	TR 200	10.29	318.86	320.78	1.92	6.01	1.44	1.44	0.41
Ovest	1245	TR 500	12.61	318.86	320.93	2.07	105.71	0.91	1.45	0.40
Ovest	1245	TR1000	14.48	318.86	321.03	2.17	160.72	0.53	1.17	0.31
Ovest	1238	TR 10	3.75	318.83	319.96	1.13	13.09	0.45	0.45	0.18
Ovest	1238	TR 50	7.03	318.83	320.48	1.65	18.26	0.43	0.43	0.14
Ovest	1238	TR 100	8.63	318.83	320.67	1.84	20.15	0.43	0.43	0.14
Ovest	1238	TR 200	10.29	318.83	320.85	2.02	73.96	0.40	0.43	0.13
Ovest	1238	TR 500	12.61	318.83	320.99	2.16	134.42	0.30	0.42	0.12
Ovest	1238	TR1000	14.48	318.83	321.06	2.23	154.20	0.28	0.42	0.12
Ovest	1236	TR 10	3.75	318.82	319.96	1.14	13.19	0.44	0.44	0.17
Ovest	1236	TR 50	7.03	318.82	320.48	1.66	18.36	0.42	0.42	0.14
Ovest	1236	TR 100	8.63	318.82	320.67	1.85	20.25	0.42	0.42	0.14
Ovest	1236	TR 200	10.29	318.82	320.85	2.03	67.95	0.37	0.41	0.13
Ovest	1236	TR 500	12.61	318.82	320.99	2.17	131.20	0.29	0.41	0.12
Ovest	1236	TR1000	14.48	318.82	321.06	2.24	149.53	0.27	0.41	0.12
Ovest	1226	TR 10	3.75	318.79	319.89	1.10	4.00	1.17	1.17	0.42
Ovest	1226	TR 50	7.03	318.79	320.39	1.60	5.00	1.29	1.29	0.39
Ovest	1226	TR 100	8.63	318.79	320.57	1.78	5.36	1.35	1.35	0.40
Ovest	1226	TR 200	10.29	318.79	320.75	1.96	5.71	1.40	1.40	0.39
Ovest	1226	TR 500	12.61	318.79	320.86	2.07	10.62	1.57	1.58	0.43
Ovest	1226	TR1000	14.48	318.79	320.90	2.11	65.30	1.54	1.75	0.48
Ovest	1164	TR 10	3.75	318.63	319.88	1.25	4.30	0.98	0.98	0.33
Ovest	1164	TR 50	7.03	318.63	320.38	1.75	5.31	1.13	1.13	0.33
Ovest	1164	TR 100	8.63	318.63	320.57	1.94	5.67	1.19	1.19	0.34
Ovest	1164	TR 200	10.29	318.63	320.74	2.11	6.02	1.25	1.25	0.34
Ovest	1164	TR 500	12.61	318.63	320.85	2.22	6.24	1.41	1.41	0.38
Ovest	1164	TR1000	14.48	318.63	320.88	2.25	6.31	1.58	1.58	0.42
Ovest	1158	TR 10	3.75	318.62	319.88	1.26	4.32	0.97	0.97	0.33
Ovest	1158	TR 50	7.03	318.62	320.38	1.76	5.33	1.12	1.12	0.33
Ovest	1158	TR 100	8.63	318.62	320.56	1.94	5.69	1.19	1.19	0.33
Ovest	1158	TR 200	10.29	318.62	320.74	2.12	6.04	1.24	1.24	0.34
Ovest	1158	TR 500	12.61	318.62	320.85	2.23	6.26	1.41	1.41	0.37
Ovest	1158	TR1000	14.48	318.62	320.88	2.26	6.32	1.58	1.58	0.42
Ovest	1150		Bridge							
Ovest	1139	TR 10	3.75	318.54	319.88	1.34	4.48	0.89	0.89	0.29
Ovest	1139	TR 50	7.03	318.54	320.38	1.84	5.54	1.05	1.05	0.30
Ovest	1139	TR 100	8.63	318.54	320.56	2.02	5.92	1.11	1.11	0.31
Ovest	1139	TR 200	10.29	318.54	320.74	2.20	6.29	1.17	1.17	0.31
Ovest	1139	TR 500	12.61	318.54	320.84	2.30	15.95	1.33	1.33	0.35
Ovest	1139	TR1000	14.48	318.54	320.87	2.33	19.34	1.49	1.49	0.39
Ovest	1130	TR 10	3.75	318.52	319.87	1.35	4.18	0.93	0.93	0.30
Ovest	1130	TR 50	7.03	318.52	320.37	1.85	5.17	1.10	1.10	0.32
Ovest	1130	TR 100	8.63	318.52	320.55	2.03	5.82	1.18	1.18	0.33
Ovest	1130	TR 200	10.29	318.52	320.73	2.21	21.46	1.07	1.21	0.32
Ovest	1130	TR 500	12.61	318.52	320.85	2.33	24.54	1.02	1.29	0.33
Ovest	1130	TR1000	14.48	318.52	320.88	2.36	25.39	1.09	1.41	0.36
Ovest	1110	TR 10	7.37	318.47	319.66	1.19	4.15	2.07	2.07	0.71
Ovest	1110	TR 50	13.43	318.47	320.09	1.62	4.96	2.45	2.45	0.74
Ovest	1110	TR 100	16.41	318.47	320.19	1.72	5.16	2.73	2.73	0.81
Ovest	1110	TR 200	19.49	318.47	320.30	1.83	5.37	2.96	2.96	0.85
Ovest	1110	TR 500	23.71	318.47	320.65	2.18	38.06	1.63	2.36	0.62
Ovest	1110	TR1000	26.64	318.47	320.72	2.25	40.62	1.53	2.35	0.60
Ovest	1070	TR 10	7.37	318.39	319.60	1.21	4.22	2.02	2.02	0.69
Ovest	1070	TR 50	13.43	318.39	320.03	1.64	5.07	2.39	2.39	0.73
Ovest	1070	TR 100	16.41	318.39	320.11	1.72	6.63	2.71	2.72	0.81
Ovest	1070	TR 200	19.49	318.39	320.23	1.84	13.58	2.70	2.86	0.87
Ovest	1070	TR 500	23.71	318.39	320.31	1.92	18.92	2.79	3.16	0.98
Ovest	1070	TR1000	26.64	318.39	320.39	2.00	23.46	2.58	3.13	0.96

HEC-RAS Plan: Plan w5 Ste (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	1039	TR 10	7.37	318.33	319.55	1.22	4.24	1.99	1.99	0.68
Ovest	1039	TR 50	13.43	318.33	319.97	1.64	6.25	2.37	2.37	0.72
Ovest	1039	TR 100	16.41	318.33	319.93	1.60	4.97	3.02	3.02	0.92
Ovest	1039	TR 200	19.49	318.33	320.25	1.92	25.62	1.93	2.52	0.69
Ovest	1039	TR 500	23.71	318.33	320.20	1.87	21.25	2.60	3.24	0.90
Ovest	1039	TR1000	26.64	318.33	320.29	1.96	27.43	2.39	3.27	0.88
Ovest	998	TR 10	7.37	318.28	319.45	1.17	4.06	2.14	2.14	0.74
Ovest	998	TR 50	13.43	318.28	319.66	1.38	4.45	3.09	3.09	1.00
Ovest	998	TR 100	16.41	318.28	320.09	1.81	49.45	1.12	1.93	0.5
Ovest	998	TR 200	19.49	318.28	319.94	1.66	32.86	2.48	3.25	0.97
Ovest	998	TR 500	23.71	318.28	319.98	1.70	41.08	2.47	3.60	1.05
Ovest	998	TR1000	26.64	318.28	320.02	1.74	45.64	2.41	3.77	1.08
Ovest	949	TR 10	7.37	318.20	319.31	1.11	4.11	2.26	2.26	0.81
Ovest	949	TR 50	13.43	318.20	319.78	1.58	66.55	0.83	1.63	0.48
Ovest	949	TR 100	16.41	318.20	319.62	1.42	47.56	2.22	3.26	1.03
Ovest	949	TR 200	19.49	318.20	319.64	1.44	48.96	2.35	3.67	1.15
Ovest	949	TR 500	23.71	318.20	319.68	1.48	58.37	2.31	4.00	1.23
Ovest	949	TR1000	26.64	318.20	319.70	1.50	60.65	2.30	4.18	1.27
Ovest	945	TR 10	7.37	318.19	319.30	1.11	4.08	2.27	2.27	0.81
Ovest	945	TR 50	13.43	318.19	319.79	1.60	70.29	0.72	1.47	0.43
Ovest	945	TR 100	16.41	318.19	319.84	1.65	75.51	0.74	1.55	0.44
Ovest	945	TR 200	19.49	318.19	319.62	1.43	51.20	2.36	3.69	1.16
Ovest	945	TR 500	23.71	318.19	319.95	1.76	88.02	0.75	1.60	0.44
Ovest	945	TR1000	26.64	318.19	319.68	1.49	58.14	2.32	4.21	1.28
Ovest	937	TR 10	7.37	318.17	319.16	0.99	3.72	2.70	2.70	1.00
Ovest	937	TR 50	13.43	318.17	319.75	1.58	61.91	0.90	1.74	0.50
Ovest	937	TR 100	16.41	318.17	319.79	1.62	65.79	0.91	1.84	0.52
Ovest	937	TR 200	19.49	318.17	319.61	1.44	40.35	2.33	3.61	1.11
Ovest	937	TR 500	23.71	318.17	319.86	1.69	79.62	1.04	2.21	0.61
Ovest	937	TR1000	26.64	318.17	319.69	1.52	51.00	2.31	4.06	1.21
Ovest	933	TR 10	7.37	318.14	319.05	0.91	3.61	3.00	3.00	1.16
Ovest	933	TR 50	13.43	318.14	319.72	1.58	63.57	1.00	1.84	0.54
Ovest	933	TR 100	16.41	318.14	319.76	1.62	75.28	0.99	1.96	0.56
Ovest	933	TR 200	19.49	318.14	319.62	1.48	38.46	2.33	3.51	1.07
Ovest	933	TR 500	23.71	318.14	319.82	1.68	82.77	1.12	2.37	0.66
Ovest	933	TR1000	26.64	318.14	319.69	1.55	57.63	2.24	3.93	1.16
Ovest	908	TR 10	7.37	317.89	318.73	0.84	4.15	3.43	3.48	1.40
Ovest	908	TR 50	13.43	317.89	318.98	1.09	9.65	3.36	4.03	1.45
Ovest	908	TR 100	16.41	317.89	319.08	1.19	17.06	3.15	4.01	1.39
Ovest	908	TR 200	19.49	317.89	319.11	1.22	21.44	3.35	4.53	1.56
Ovest	908	TR 500	23.71	317.89	319.22	1.33	34.81	2.70	4.19	1.39
Ovest	908	TR1000	26.64	317.89	319.20	1.31	32.91	3.20	4.88	1.63
Ovest	873	TR 10	7.37	317.67	318.51	0.84	3.41	3.35	3.35	1.33
Ovest	873	TR 50	13.43	317.67	318.76	1.09	24.72	2.83	3.89	1.39
Ovest	873	TR 100	16.41	317.67	319.20	1.53	128.53	0.55	1.21	0.37
Ovest	873	TR 200	19.49	317.67	319.25	1.58	152.75	0.51	1.14	0.34
Ovest	873	TR 500	23.71	317.67	319.31	1.64	164.27	0.50	1.12	0.32
Ovest	873	TR1000	26.64	317.67	319.35	1.68	166.60	0.50	1.11	0.31
Ovest	848	TR 10	7.37	317.37	318.14	0.77	3.20	3.78	3.78	1.55
Ovest	848	TR 50	13.43	317.37	318.61	1.24	5.75	3.66	3.69	1.24
Ovest	848	TR 100	16.41	317.37	319.20	1.83	157.21	0.40	0.96	0.27
Ovest	848	TR 200	19.49	317.37	319.25	1.88	164.88	0.39	0.92	0.25
Ovest	848	TR 500	23.71	317.37	319.31	1.94	167.75	0.40	0.90	0.24
Ovest	848	TR1000	26.64	317.37	319.35	1.98	172.59	0.41	0.90	0.24
Ovest	817	TR 10	7.37	317.07	317.82	0.75	3.28	3.83	3.83	1.60
Ovest	817	TR 50	13.43	317.07	318.18	1.11	3.92	4.20	4.20	1.49
Ovest	817	TR 100	16.41	317.07	318.61	1.54	4.69	3.25	3.25	1.00
Ovest	817	TR 200	19.49	317.07	319.09	2.02	66.30	1.11	1.96	0.53
Ovest	817	TR 500	23.71	317.07	319.14	2.07	71.20	1.12	2.09	0.55
Ovest	817	TR1000	26.64	317.07	319.19	2.12	77.53	1.09	2.09	0.55

HEC-RAS Plan: Plan_w5_Ste (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	780	TR 10	7.37	316.69	317.49	0.80	3.03	3.80	3.80	1.52
Ovest	780	TR 50	13.43	316.69	317.86	1.17	3.59	4.27	4.27	1.46
Ovest	780	TR 100	16.41	316.69	318.08	1.39	3.95	4.13	4.13	1.31
Ovest	780	TR 200	19.49	316.69	318.28	1.59	8.18	3.96	4.04	1.22
Ovest	780	TR 500	23.71	316.69	318.45	1.76	22.61	3.09	3.93	1.14
Ovest	780	TR1000	26.64	316.69	318.51	1.82	26.99	2.86	3.96	1.13
Ovest	731	TR 10	7.37	316.27	317.54	1.27	4.35	1.89	1.89	0.64
Ovest	731	TR 50	13.43	316.27	318.14	1.87	46.52	0.80	1.35	0.37
Ovest	731	TR 100	16.41	316.27	318.40	2.13	76.44	0.48	0.96	0.24
Ovest	731	TR 200	19.49	316.27	318.56	2.29	91.50	0.41	0.82	0.20
Ovest	731	TR 500	23.71	316.27	318.66	2.39	94.10	0.42	0.81	0.19
Ovest	731	TR1000	26.64	316.27	318.73	2.46	95.48	0.42	0.80	0.18
Ovest	714	TR 10	7.37	316.10	317.57	1.47	9.18	1.50	1.54	0.49
Ovest	714	TR 50	13.43	316.10	318.16	2.06	81.73	0.47	0.95	0.24
Ovest	714	TR 100	16.41	316.10	318.41	2.31	95.53	0.32	0.65	0.15
Ovest	714	TR 200	19.49	316.10	318.57	2.47	105.58	0.29	0.58	0.13
Ovest	714	TR 500	23.71	316.10	318.67	2.57	115.59	0.30	0.61	0.14
Ovest	714	TR1000	26.64	316.10	318.74	2.64	120.00	0.31	0.61	0.13
Ovest	686	TR 10	7.37	316.05	317.58	1.53	32.65	0.96	1.22	0.47
Ovest	686	TR 50	13.43	316.05	318.17	2.12	157.29	0.20	0.38	0.11
Ovest	686	TR 100	16.41	316.05	318.41	2.36	205.87	0.15	0.29	0.08
Ovest	686	TR 200	19.49	316.05	318.57	2.52	219.49	0.13	0.26	0.06
Ovest	686	TR 500	23.71	316.05	318.67	2.62	229.12	0.14	0.27	0.06
Ovest	686	TR1000	26.64	316.05	318.74	2.69	229.69	0.15	0.27	0.06
Ovest	681	TR 10	7.37	316.03	317.62	1.59	105.42	0.29	0.64	0.19
Ovest	681	TR 50	13.43	316.03	318.18	2.15	197.41	0.12	0.23	0.06
Ovest	681	TR 100	16.41	316.03	318.42	2.39	211.52	0.10	0.18	0.04
Ovest	681	TR 200	19.49	316.03	318.57	2.54	215.69	0.10	0.17	0.04
Ovest	681	TR 500	23.71	316.03	318.67	2.64	215.69	0.11	0.18	0.04
Ovest	681	TR1000	26.64	316.03	318.74	2.71	215.69	0.12	0.18	0.04
Ovest	675		Bridge							
Ovest	666	TR 10	7.37	316.02	316.92	0.90	5.93	3.17	3.60	1.50
Ovest	666	TR 50	13.43	316.02	317.07	1.05	17.56	4.08	4.61	1.89
Ovest	666	TR 100	16.41	316.02	317.11	1.09	25.23	4.33	5.01	2.18
Ovest	666	TR 200	19.49	316.02	317.15	1.13	39.05	3.97	5.39	2.27
Ovest	666	TR 500	23.71	316.02	317.18	1.16	53.65	3.70	5.75	2.36
Ovest	666	TR1000	26.64	316.02	317.19	1.17	61.04	3.65	5.99	2.42
Ovest	661	TR 10	4.44	315.91	316.41	0.50	2.00	4.45	4.45	2.01
Ovest	661	TR 50	11.77	315.91	317.08	1.17	10.27	3.78	4.18	2.10
Ovest	661	TR 100	15.24	315.91	317.11	1.20	26.32	4.23	4.52	3.16
Ovest	661	TR 200	18.81	315.91	317.14	1.23	34.71	4.37	4.86	3.39
Ovest	661	TR 500	23.65	315.91	317.16	1.25	43.96	4.44	5.07	3.66
Ovest	661	TR1000	27.43	315.91	317.18	1.27	48.88	4.49	5.21	3.73
Ovest	643	TR 10	4.44	317.07	316.68	0.33	27.48	1.00		0.00
Ovest	643	TR 50	11.77	317.07	316.65	0.30	27.07	3.27		0.00
Ovest	643	TR 100	15.24	317.07	316.70	0.36	27.75	3.02		0.00
Ovest	643	TR 200	18.81	317.07	316.73	0.38	28.33	3.23		0.00
Ovest	643	TR 500	23.65	317.07	316.77	0.42	30.61	3.38		0.00
Ovest	643	TR1000	27.43	317.07	316.80	0.45	32.25	3.47		0.00
Ovest	619	TR 10	4.44	317.19	316.64	0.77	29.06	0.77		0.00
Ovest	619	TR 50	11.77	317.19	316.78	0.92	38.50	1.08		0.00
Ovest	619	TR 100	15.24	317.19	316.82	0.95	39.27	1.25		0.00
Ovest	619	TR 200	18.81	317.19	316.85	0.98	39.81	1.41		0.00
Ovest	619	TR 500	23.65	317.19	316.88	1.02	40.24	1.60		0.00
Ovest	619	TR1000	27.43	317.19	316.90	1.04	42.90	1.76		0.00
Ovest	576	TR 10	4.44	316.37	316.49	0.35	37.07	1.01	0.74	0.86
Ovest	576	TR 50	11.77	316.37	316.60	0.45	63.41	1.21	0.91	0.87
Ovest	576	TR 100	15.24	316.37	316.63	0.49	70.17	1.27	0.96	0.87
Ovest	576	TR 200	18.81	316.37	316.66	0.52	74.90	1.33	0.94	0.85
Ovest	576	TR 500	23.65	316.37	316.69	0.55	77.29	1.43	1.07	0.88
Ovest	576	TR1000	27.43	316.37	316.72	0.58	80.92	1.46	1.13	0.87

HEC-RAS Plan: Plan_w5_Ste (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	539	TR 10	4.44	315.84	316.04	0.30	18.53	1.66	1.59	1.38
Ovest	539	TR 50	11.77	315.84	316.21	0.46	27.66	1.85	1.82	1.23
Ovest	539	TR 100	15.24	315.84	316.26	0.52	34.27	1.88	1.82	1.18
Ovest	539	TR 200	18.81	315.84	316.32	0.57	49.09	1.85	1.74	1.15
Ovest	539	TR 500	23.65	315.84	316.37	0.63	91.20	1.72	1.45	1.14
Ovest	539	TR1000	27.43	315.84	316.38	0.64	95.22	1.82	1.59	1.21
Ovest	507	TR 10	4.44	315.31	315.53	0.22	23.01	1.62	1.69	1.50
Ovest	507	TR 50	11.77	315.31	315.62	0.30	26.08	2.41	2.52	1.78
Ovest	507	TR 100	15.24	315.31	315.66	0.34	29.76	2.57	2.70	1.81
Ovest	507	TR 200	18.81	315.31	315.69	0.38	33.17	2.68	2.83	1.82
Ovest	507	TR 500	23.65	315.31	315.74	0.43	40.18	2.63	2.83	1.69
Ovest	507	TR1000	27.43	315.31	315.78	0.47	42.73	2.61	2.84	1.62
Ovest	476	TR 10	4.44	314.54	315.39	0.85	42.76	0.25	0.25	0.12
Ovest	476	TR 50	11.77	314.54	315.53	1.00	52.60	0.47	0.48	0.22
Ovest	476	TR 100	15.24	314.54	315.58	1.04	53.61	0.56	0.58	0.25
Ovest	476	TR 200	18.81	314.54	315.61	1.08	54.52	0.65	0.66	0.28
Ovest	476	TR 500	23.65	314.54	315.66	1.12	59.03	0.75	0.77	0.31
Ovest	476	TR1000	27.43	314.54	315.69	1.15	65.07	0.82	0.84	0.34
Ovest	448	TR 10	4.44	314.65	315.38	0.73	33.28	0.41	0.41	0.23
Ovest	448	TR 50	11.77	314.65	315.51	0.86	51.12	0.72	0.72	0.40
Ovest	448	TR 100	15.24	314.65	315.54	0.89	54.20	0.84	0.85	0.45
Ovest	448	TR 200	18.81	314.65	315.57	0.92	63.17	0.95	0.96	0.51
Ovest	448	TR 500	23.65	314.65	315.60	0.95	66.03	1.09	1.11	0.56
Ovest	448	TR1000	27.43	314.65	315.62	0.97	71.72	1.17	1.21	0.60
Ovest	401	TR 10	4.44	315.07	315.30	0.23	56.42	0.91	1.02	0.98
Ovest	401	TR 50	11.77	315.07	315.39	0.32	102.04	0.95	0.96	0.87
Ovest	401	TR 100	15.24	315.07	315.42	0.34	110.34	1.01	1.04	0.88
Ovest	401	TR 200	18.81	315.07	315.45	0.37	124.32	1.01	1.06	0.83
Ovest	401	TR 500	23.65	315.07	315.48	0.40	132.23	1.06	1.14	0.83
Ovest	401	TR1000	27.43	315.07	315.49	0.42	135.13	1.11	1.20	0.83
Ovest	362	TR 10	4.44	314.95	314.95	0.33	26.56	1.31	0.06	0.48
Ovest	362	TR 50	11.77	314.95	315.10	0.48	57.14	1.27	0.69	0.84
Ovest	362	TR 100	15.24	314.95	315.14	0.52	65.26	1.32	0.81	0.85
Ovest	362	TR 200	18.81	314.95	315.17	0.54	67.86	1.41	0.93	0.90
Ovest	362	TR 500	23.65	314.95	315.20	0.58	71.45	1.50	1.02	0.90
Ovest	362	TR1000	27.43	314.95	315.24	0.61	83.44	1.49	0.83	0.82
Ovest	333	TR 10	4.44	314.67	314.83	0.16	73.46	0.70	0.66	0.74
Ovest	333	TR 50	11.77	314.67	314.92	0.25	116.07	0.83	0.93	0.73
Ovest	333	TR 100	15.24	314.67	314.94	0.27	128.93	0.91	1.04	0.77
Ovest	333	TR 200	18.81	314.67	314.97	0.30	145.41	0.89	1.13	0.78
Ovest	333	TR 500	23.65	314.67	315.00	0.34	151.00	0.90	1.08	0.72
Ovest	333	TR1000	27.43	314.67	314.93	0.26	121.91	1.76	2.00	1.52
Ovest	295	TR 10	4.44	314.50	314.60	0.28	39.58	0.99	0.51	0.71
Ovest	295	TR 50	11.77	314.50	314.71	0.39	69.40	1.13	0.69	0.74
Ovest	295	TR 100	15.24	314.50	314.75	0.44	93.23	1.06	0.77	0.71
Ovest	295	TR 200	18.81	314.50	314.78	0.47	101.19	1.12	0.87	0.75
Ovest	295	TR 500	23.65	314.50	314.81	0.50	120.23	1.17	0.91	0.81
Ovest	295	TR1000	27.43	314.50	314.82	0.51	123.68	1.25	1.01	0.88
Ovest	241	TR 10	4.44	313.93	314.15	0.35	43.08	1.24	1.25	1.24
Ovest	241	TR 50	11.77	313.93	314.23	0.42	68.01	1.53	1.62	1.44
Ovest	241	TR 100	15.24	313.93	314.24	0.44	72.65	1.70	1.78	1.56
Ovest	241	TR 200	18.81	313.93	314.27	0.46	78.29	1.76	1.83	1.53
Ovest	241	TR 500	23.65	313.93	314.30	0.50	85.53	1.72	1.81	1.38
Ovest	241	TR1000	27.43	313.93	314.33	0.53	94.93	1.66	1.76	1.26
Ovest	216	TR 10	4.44	313.73	314.09	0.36	61.44	0.47	0.49	0.36
Ovest	216	TR 50	11.77	313.73	314.24	0.51	119.72	0.53	0.64	0.35
Ovest	216	TR 100	15.24	313.73	314.28	0.55	137.79	0.55	0.69	0.36
Ovest	216	TR 200	18.81	313.73	314.31	0.58	147.16	0.58	0.75	0.37
Ovest	216	TR 500	23.65	313.73	314.35	0.62	154.51	0.63	0.82	0.39
Ovest	216	TR1000	27.43	313.73	314.37	0.64	159.35	0.67	0.87	0.40

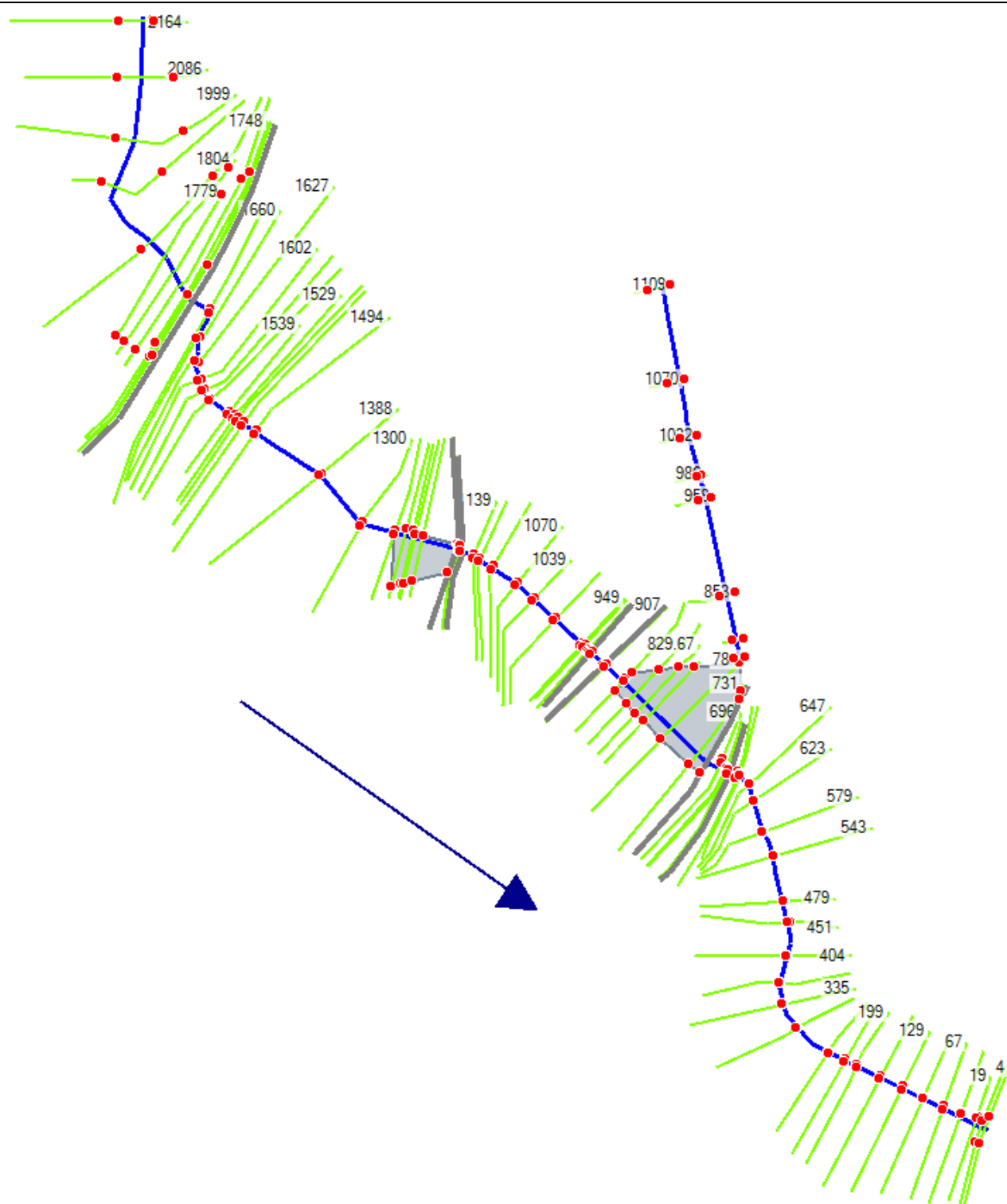
HEC-RAS Plan: Plan_w5_Ste (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	198	TR 10	4.44	313.92	313.93	0.36	12.10	1.56	0.13	0.54
Ovest	198	TR 50	11.77	313.92	314.15	0.58	62.22	1.11	0.69	0.65
Ovest	198	TR 100	15.24	313.92	314.19	0.62	74.03	1.13	0.78	0.66
Ovest	198	TR 200	18.81	313.92	314.23	0.65	92.01	1.14	0.87	0.69
Ovest	198	TR 500	23.65	313.92	314.27	0.70	121.89	1.10	0.93	0.71
Ovest	198	TR1000	27.43	313.92	314.28	0.71	127.18	1.20	1.04	0.77
Ovest	162	TR 10	4.44	313.77	313.84	0.32	37.98	0.85	0.23	0.47
Ovest	162	TR 50	11.77	313.77	313.89	0.37	46.91	1.63	0.78	0.97
Ovest	162	TR 100	15.24	313.77	313.93	0.41	55.59	1.68	0.86	0.99
Ovest	162	TR 200	18.81	313.77	313.97	0.45	69.23	1.62	0.80	0.91
Ovest	162	TR 500	23.65	313.77	314.01	0.49	84.02	1.59	0.82	0.89
Ovest	162	TR1000	27.43	313.77	314.05	0.52	101.91	1.53	0.87	0.86
Ovest	128	TR 10	4.44	314.00	313.67	0.27	36.85	1.07		0.00
Ovest	128	TR 50	11.77	314.00	313.78	0.38	67.11	1.21		0.00
Ovest	128	TR 100	15.24	314.00	313.81	0.41	73.87	1.29		0.00
Ovest	128	TR 200	18.81	314.00	313.84	0.43	76.18	1.37		0.00
Ovest	128	TR 500	23.65	314.00	313.87	0.47	77.65	1.47		0.00
Ovest	128	TR1000	27.43	314.00	313.89	0.49	79.87	1.52		0.00
Ovest	97	TR 10	4.44	313.06	313.28	0.22	35.92	1.36	1.10	1.31
Ovest	97	TR 50	11.77	313.06	313.36	0.30	54.32	1.79	1.56	1.53
Ovest	97	TR 100	15.24	313.06	313.38	0.32	61.44	1.92	1.72	1.60
Ovest	97	TR 200	18.81	313.06	313.40	0.35	66.90	1.98	1.84	1.58
Ovest	97	TR 500	23.65	313.06	313.43	0.38	77.40	2.03	1.89	1.60
Ovest	97	TR1000	27.43	313.06	313.45	0.39	81.58	2.13	1.98	1.64
Ovest	67	TR 10	4.44	312.16	312.25	0.09	34.35	2.06	2.06	2.62
Ovest	67	TR 50	11.77	312.16	312.32	0.16	42.41	2.50	2.51	2.35
Ovest	67	TR 100	15.24	312.16	312.35	0.19	45.98	2.63	2.67	2.27
Ovest	67	TR 200	18.81	312.16	312.37	0.21	47.87	2.80	2.86	2.28
Ovest	67	TR 500	23.65	312.16	312.39	0.23	50.90	2.92	3.03	2.23
Ovest	67	TR1000	27.43	312.16	312.41	0.26	53.08	2.98	3.12	2.18
Ovest	41	TR 10	4.44	311.36	311.67	0.31	21.22	1.53	1.53	1.32
Ovest	41	TR 50	11.77	311.36	311.77	0.42	22.57	2.24	2.24	1.48
Ovest	41	TR 100	15.24	311.36	311.81	0.46	23.04	2.46	2.46	1.52
Ovest	41	TR 200	18.81	311.36	311.85	0.50	23.58	2.64	2.64	1.53
Ovest	41	TR 500	23.65	311.36	311.91	0.55	24.57	2.82	2.82	1.54
Ovest	41	TR1000	27.43	311.36	311.94	0.59	25.29	2.94	2.94	1.55
Ovest	19	TR 10	4.44	310.46	310.73	0.27	10.99	3.06	3.06	2.69
Ovest	19	TR 50	11.77	310.46	310.87	0.41	15.72	3.50	3.50	2.42
Ovest	19	TR 100	15.24	310.46	310.92	0.46	17.26	3.66	3.66	2.38
Ovest	19	TR 200	18.81	310.46	310.96	0.50	18.47	3.81	3.81	2.35
Ovest	19	TR 500	23.65	310.46	311.02	0.55	23.97	3.93	3.98	2.34
Ovest	19	TR1000	27.43	310.46	311.05	0.59	26.56	3.99	4.10	2.35
Ovest	10	TR 10	4.44	309.17	309.48	0.31	5.42	4.57	4.57	3.44
Ovest	10	TR 50	11.77	309.17	309.67	0.50	7.62	5.14	5.14	3.00
Ovest	10	TR 100	15.24	309.17	309.75	0.58	7.95	5.29	5.29	2.80
Ovest	10	TR 200	18.81	309.17	309.82	0.65	8.29	5.39	5.39	2.66
Ovest	10	TR 500	23.65	309.17	309.92	0.75	8.85	5.49	5.49	2.51
Ovest	10	TR1000	27.43	309.17	309.99	0.82	14.87	5.41	5.49	2.66
Ovest	4	TR 10	4.44	309.11	309.34	0.23	12.07	3.28	3.28	3.13
Ovest	4	TR 50	11.77	309.11	309.43	0.32	13.64	4.68	4.68	3.48
Ovest	4	TR 100	15.24	309.11	309.46	0.35	14.14	5.08	5.08	3.52
Ovest	4	TR 200	18.81	309.11	309.50	0.39	14.62	5.40	5.40	3.53
Ovest	4	TR 500	23.65	309.11	309.54	0.43	15.30	5.63	5.63	3.43
Ovest	4	TR1000	27.43	309.11	309.59	0.47	15.89	5.65	5.65	3.27
Nord	1109	TR 10	2.00	319.80	320.22	0.42	3.78	1.74	1.74	1.01
Nord	1109	TR 50	4.28	319.80	320.43	0.63	4.47	2.12	2.12	1.01
Nord	1109	TR 100	5.10	319.80	320.52	0.72	5.74	2.07	2.07	1.01
Nord	1109	TR 200	5.74	319.80	320.56	0.76	5.94	2.13	2.13	1.01
Nord	1109	TR 500	6.81	319.80	320.62	0.82	6.26	2.22	2.22	1.01
Nord	1109	TR1000	7.00	319.80	320.63	0.83	6.31	2.23	2.23	1.01
Nord	1070	TR 10	2.00	318.76	319.64	0.88	5.01	0.95	0.95	0.47

HEC-RAS Plan: Plan_w5_Ste (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Nord	1070	TR 50	4.28	318.76	319.97	1.21	6.07	1.08	1.08	0.43
Nord	1070	TR 100	5.10	318.76	320.01	1.25	6.20	1.21	1.21	0.47
Nord	1070	TR 200	5.74	318.76	320.03	1.27	6.25	1.33	1.33	0.51
Nord	1070	TR 500	6.81	318.76	320.06	1.30	6.34	1.52	1.52	0.58
Nord	1070	TR1000	7.00	318.76	320.06	1.31	6.36	1.54	1.54	0.58
Nord	1032	TR 10	2.00	318.76	319.36	0.60	2.51	1.93	1.93	0.96
Nord	1032	TR 50	4.28	318.76	319.64	0.88	3.45	2.31	2.31	1.01
Nord	1032	TR 100	5.10	318.76	319.89	1.13	25.30	1.23	1.35	0.89
Nord	1032	TR 200	5.74	318.76	319.91	1.15	27.28	1.22	1.36	0.90
Nord	1032	TR 500	6.81	318.76	319.93	1.17	28.08	1.28	1.43	0.91
Nord	1032	TR1000	7.00	318.76	319.93	1.17	27.83	1.34	1.50	0.95
Nord	986	TR 10	2.00	318.50	319.25	0.75	2.97	1.53	1.53	0.74
Nord	986	TR 50	4.28	318.50	319.41	0.91	3.37	2.36	2.36	1.03
Nord	986	TR 100	5.10	318.50	319.60	1.10	18.53	1.52	1.57	1.12
Nord	986	TR 200	5.74	318.50	319.62	1.12	20.04	1.57	1.63	1.12
Nord	986	TR 500	6.81	318.50	319.65	1.14	24.35	1.59	1.70	1.12
Nord	986	TR1000	7.00	318.50	319.66	1.15	25.35	1.54	1.65	1.07
Nord	959	TR 10	2.00	318.52	319.09	0.58	2.94	1.90	1.90	1.01
Nord	959	TR 50	4.28	318.52	319.39	0.88	28.23	1.40	1.84	0.87
Nord	959	TR 100	5.10	318.52	319.42	0.90	30.06	1.36	1.97	0.92
Nord	959	TR 200	5.74	318.52	319.44	0.92	34.03	1.32	1.91	1.08
Nord	959	TR 500	6.81	318.52	319.45	0.94	37.92	1.38	1.94	1.24
Nord	959	TR1000	7.00	318.52	319.45	0.94	37.95	1.42	1.99	1.28
Nord	853	TR 10	2.00	318.10	318.79	0.69	19.12	0.57	0.73	0.46
Nord	853	TR 50	4.28	318.10	318.90	0.80	24.82	0.72	0.89	0.53
Nord	853	TR 100	5.10	318.10	318.93	0.83	25.82	0.77	0.93	0.54
Nord	853	TR 200	5.74	318.10	318.95	0.85	26.41	0.81	0.97	0.56
Nord	853	TR 500	6.81	318.10	318.98	0.88	27.85	0.85	1.01	0.57
Nord	853	TR1000	7.00	318.10	318.99	0.89	28.17	0.86	1.02	0.57
Nord	801	TR 10	2.00	318.46	318.66	0.19	20.62	0.91	0.90	1.01
Nord	801	TR 50	4.28	318.46	318.72	0.25	24.17	1.20	1.28	1.14
Nord	801	TR 100	5.10	318.46	318.74	0.27	25.81	1.26	1.27	1.15
Nord	801	TR 200	5.74	318.46	318.75	0.29	26.41	1.30	1.33	1.15
Nord	801	TR 500	6.81	318.46	318.77	0.31	28.33	1.35	1.43	1.16
Nord	801	TR1000	7.00	318.46	318.78	0.32	30.18	1.32	1.46	1.17
Nord	748	TR 10	2.00	318.01	318.25	0.23	16.60	0.95	1.32	1.04
Nord	748	TR 50	4.28	318.01	318.39	0.37	25.43	0.85	0.99	0.72
Nord	748	TR 100	5.10	318.01	318.43	0.42	28.28	0.82	0.98	0.66
Nord	748	TR 200	5.74	318.01	318.47	0.45	30.38	0.79	0.92	0.61
Nord	748	TR 500	6.81	318.01	318.52	0.50	33.20	0.77	0.80	0.55
Nord	748	TR1000	7.00	318.01	318.52	0.51	33.36	0.78	0.81	0.55
Nord	733	TR 10	2.00	317.77	318.06	0.29	8.03	1.36	1.36	1.01
Nord	733	TR 50	4.28	317.77	318.18	0.41	9.05	1.69	1.69	1.01
Nord	733	TR 100	5.10	317.77	318.23	0.45	9.52	1.75	1.75	1.00
Nord	733	TR 200	5.74	317.77	318.25	0.48	9.83	1.82	1.83	1.01
Nord	733	TR 500	6.81	317.77	318.32	0.54	12.63	1.76	1.78	0.98
Nord	733	TR1000	7.00	317.77	318.35	0.58	17.72	1.60	1.64	0.95

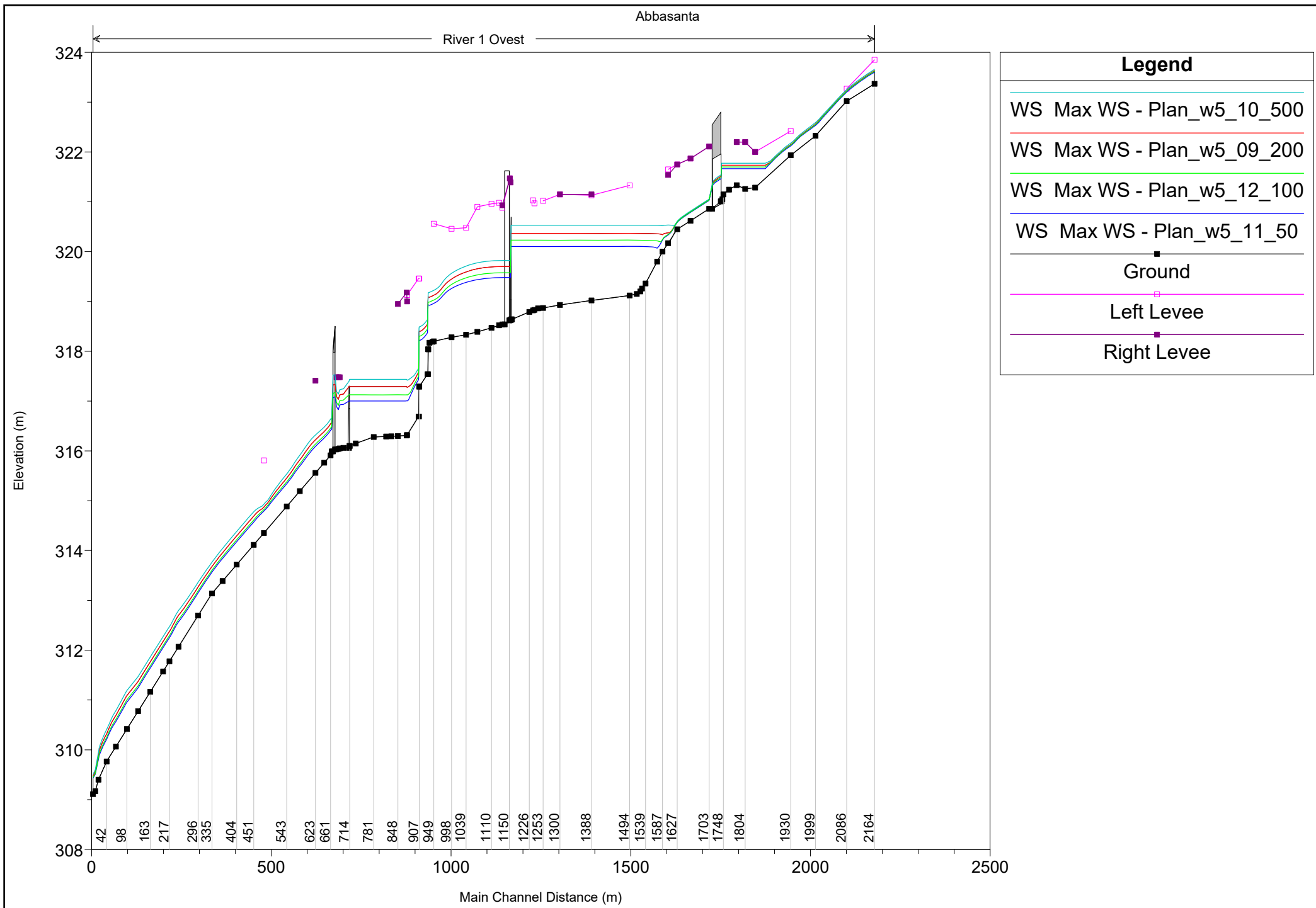
POST OPERAM

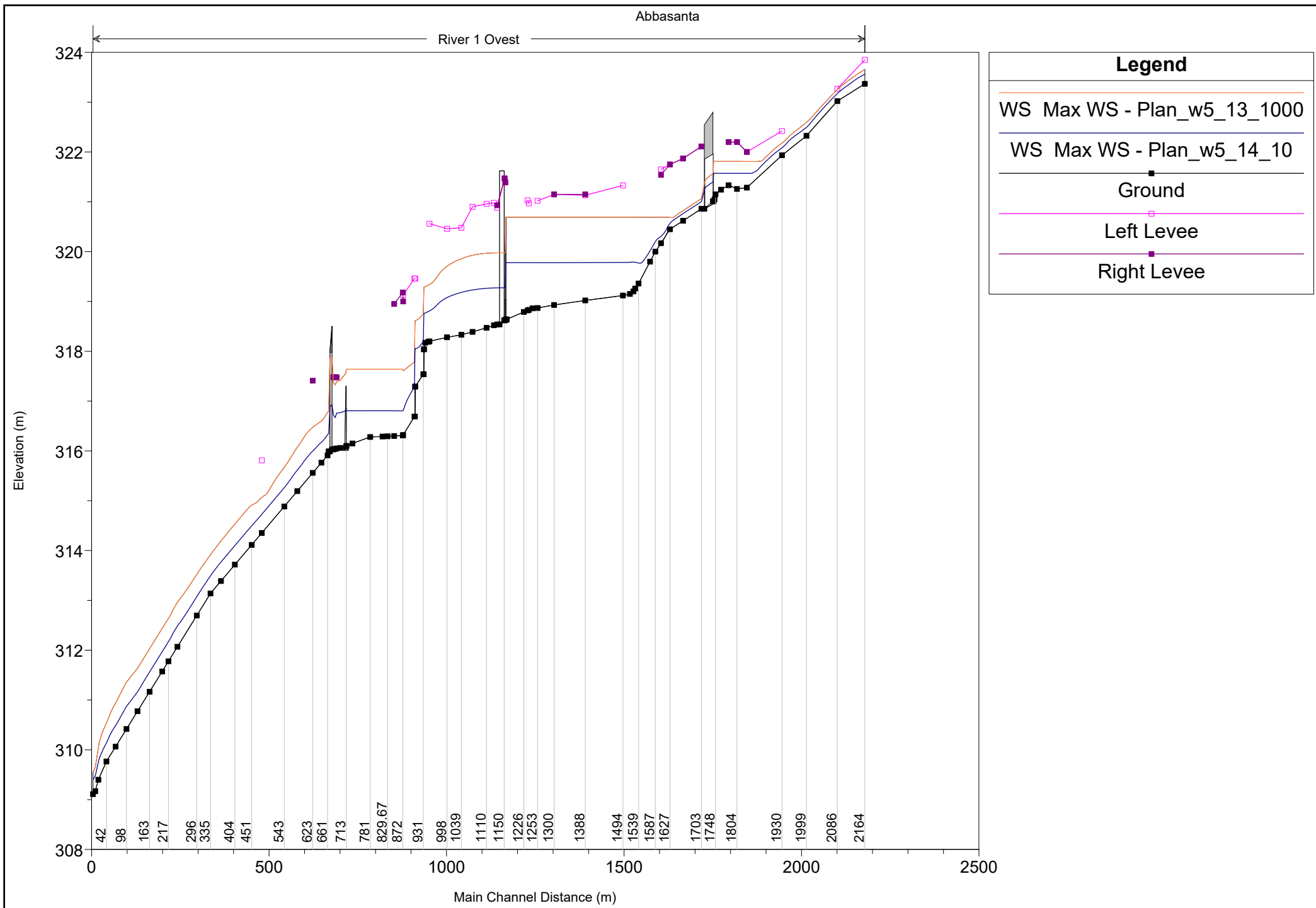


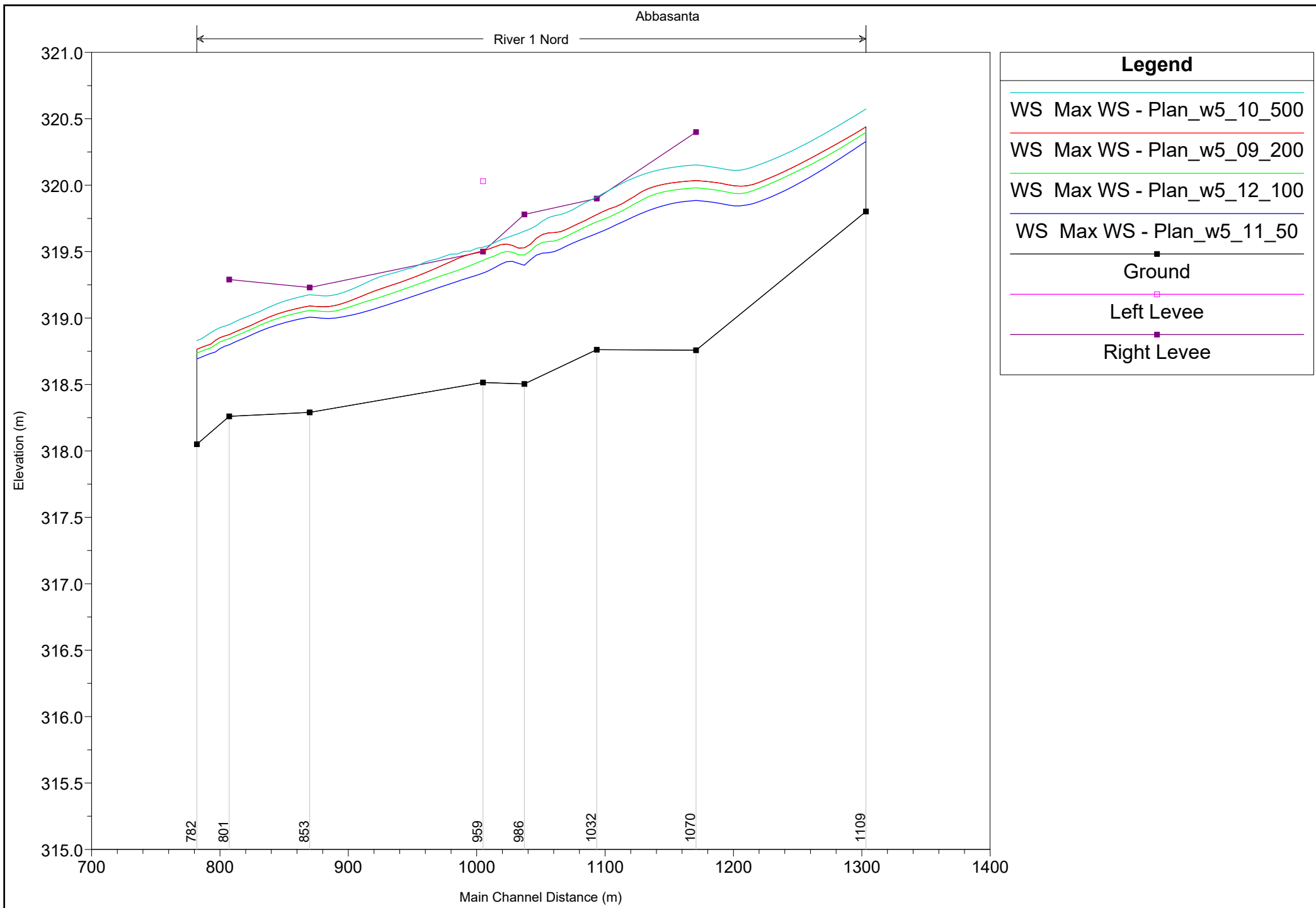
POST OPERAM

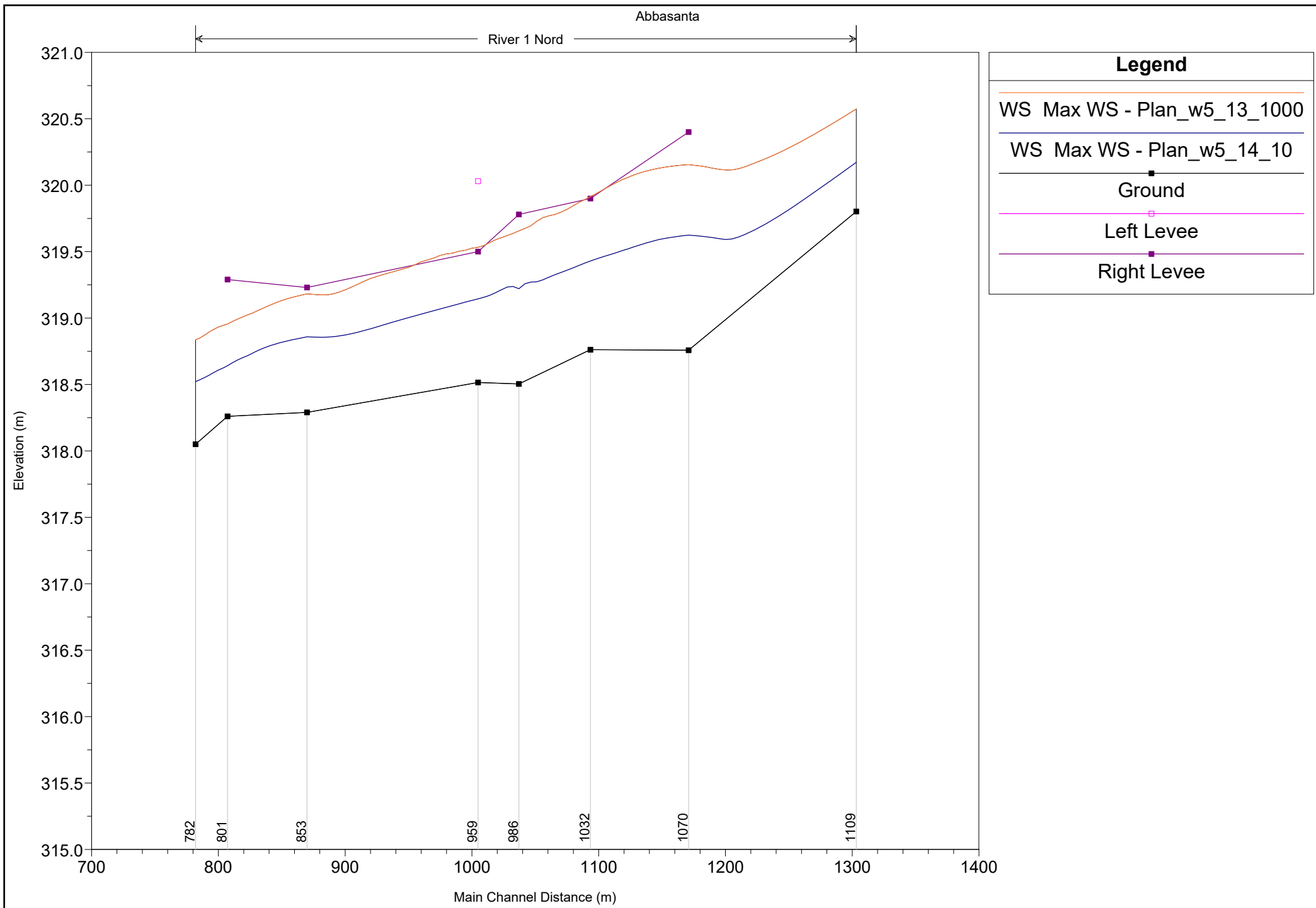
LEGENDA delle abbreviazioni utilizzate nelle tabelle idrauliche

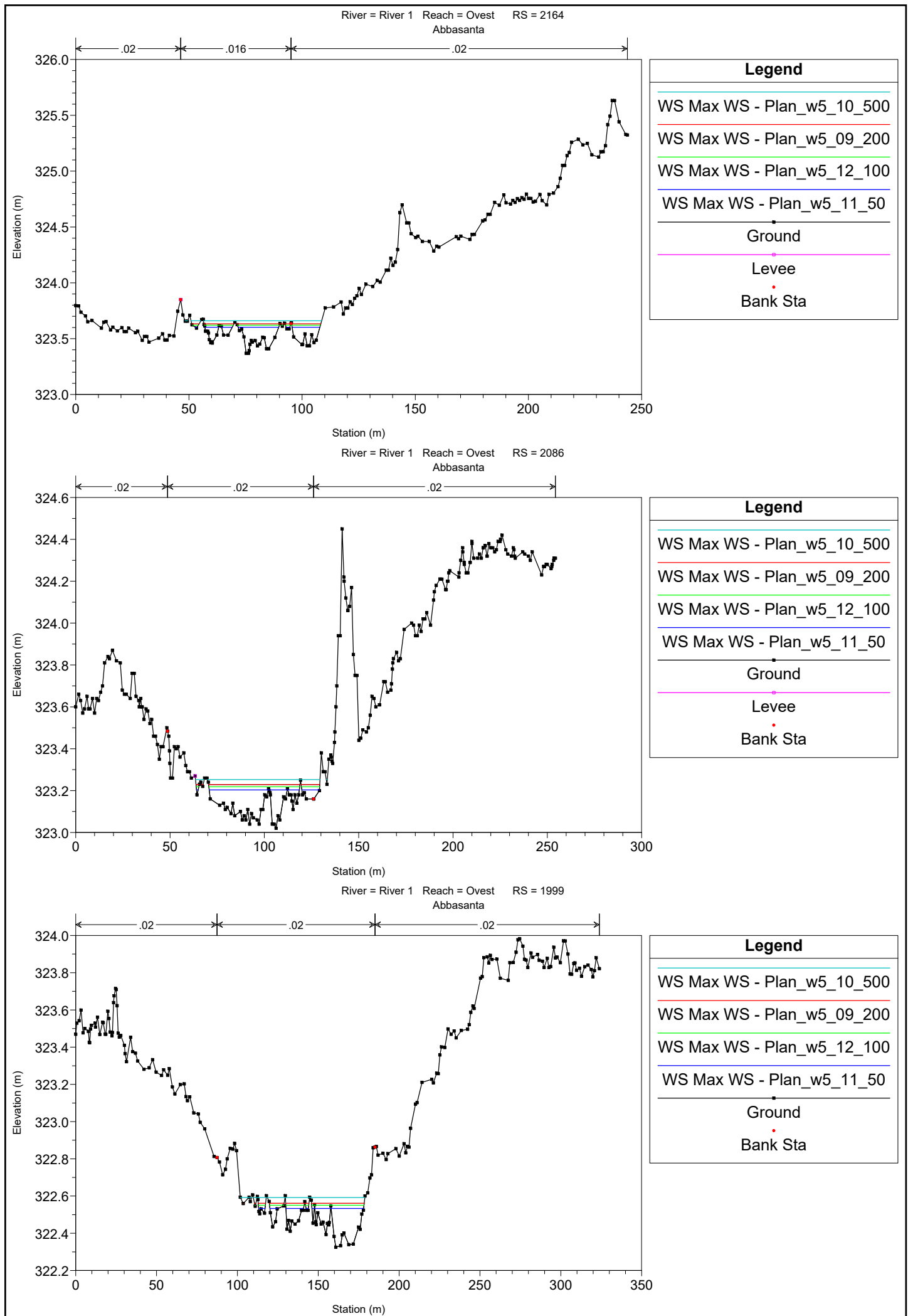
Plan_w5_11_50: Simulazione relativa al Tempo di ritorno di 50 anni
Plan_w5_12_100: Simulazione relativa al Tempo di ritorno di 100 anni
Plan_w5_09_200: Simulazione relativa al Tempo di ritorno di 200 anni
Plan_w5_10_500: Simulazione relativa al Tempo di ritorno di 500 anni
Plan_w5_14_10: Simulazione relativa al Tempo di ritorno di 10 anni
Plan_w5_13_1000: Simulazione relativa al Tempo di ritorno di 1000 anni

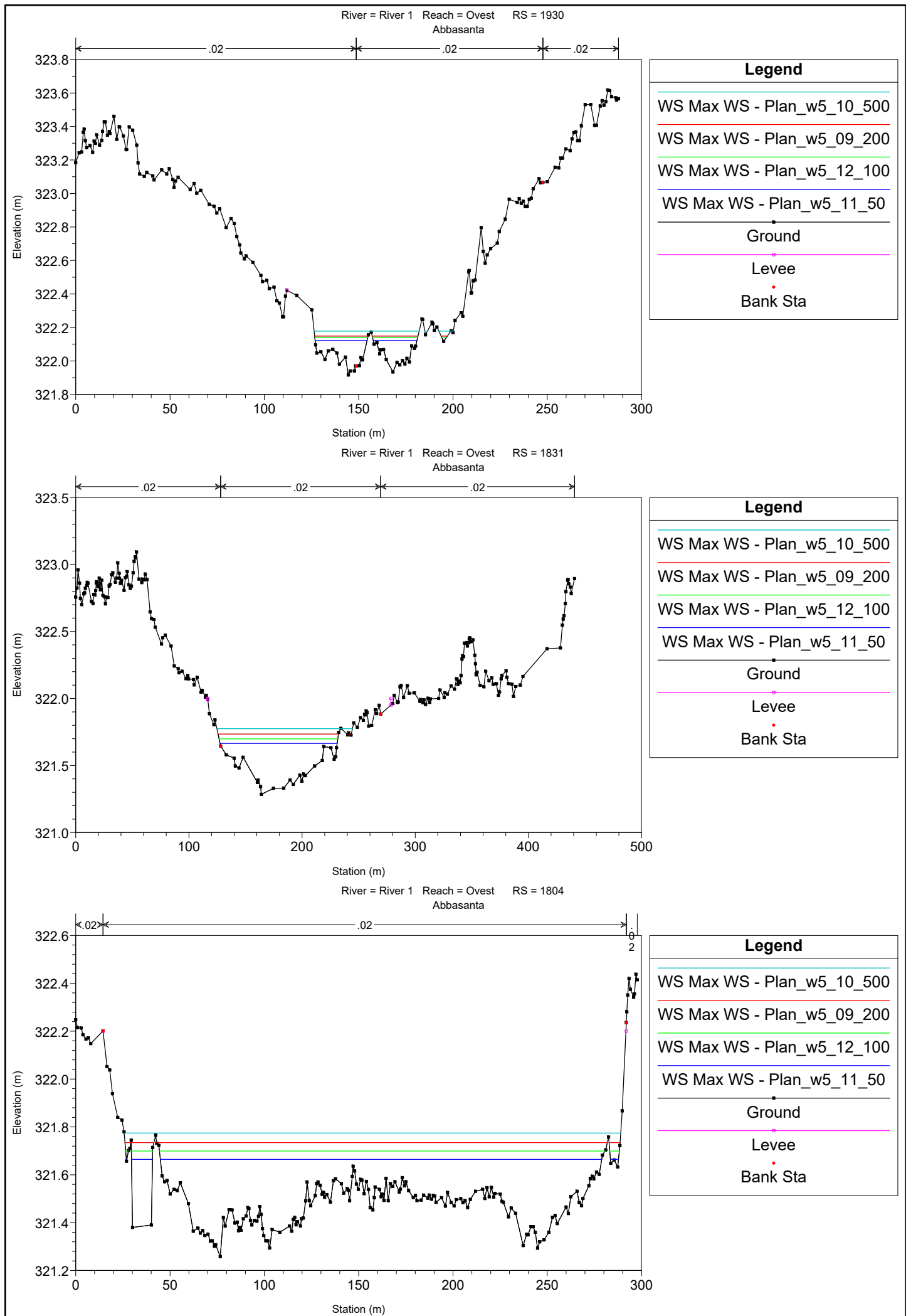


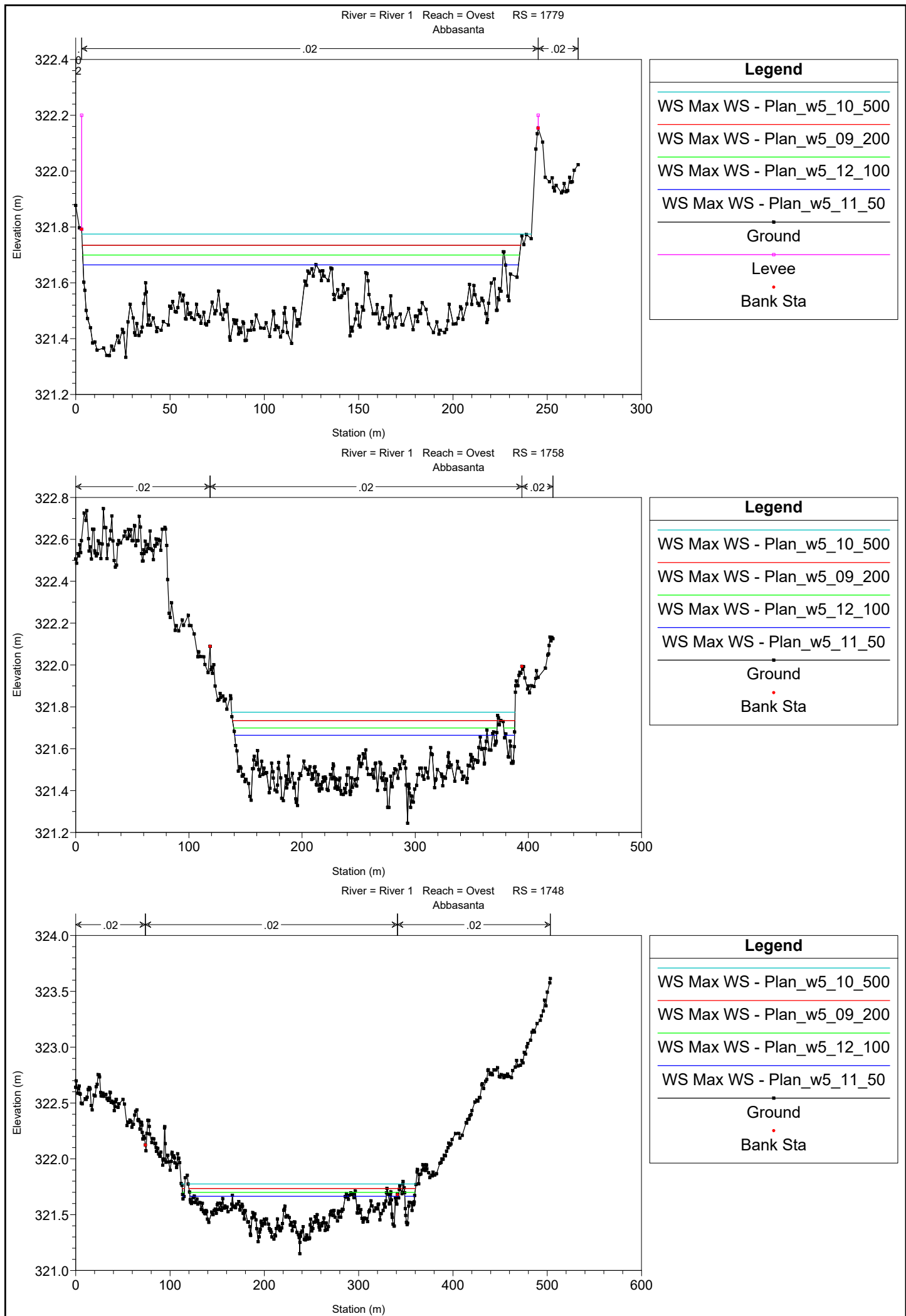


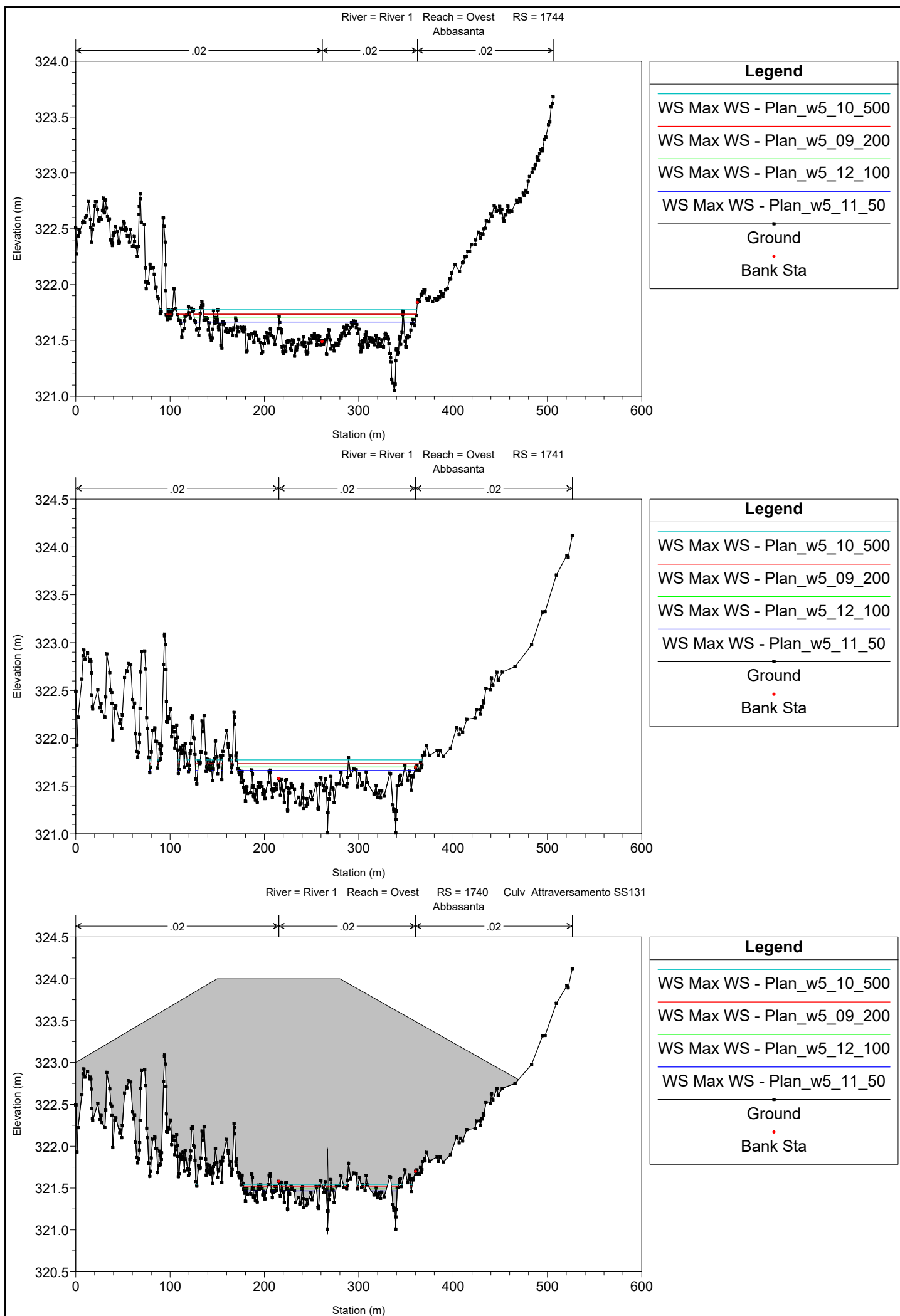


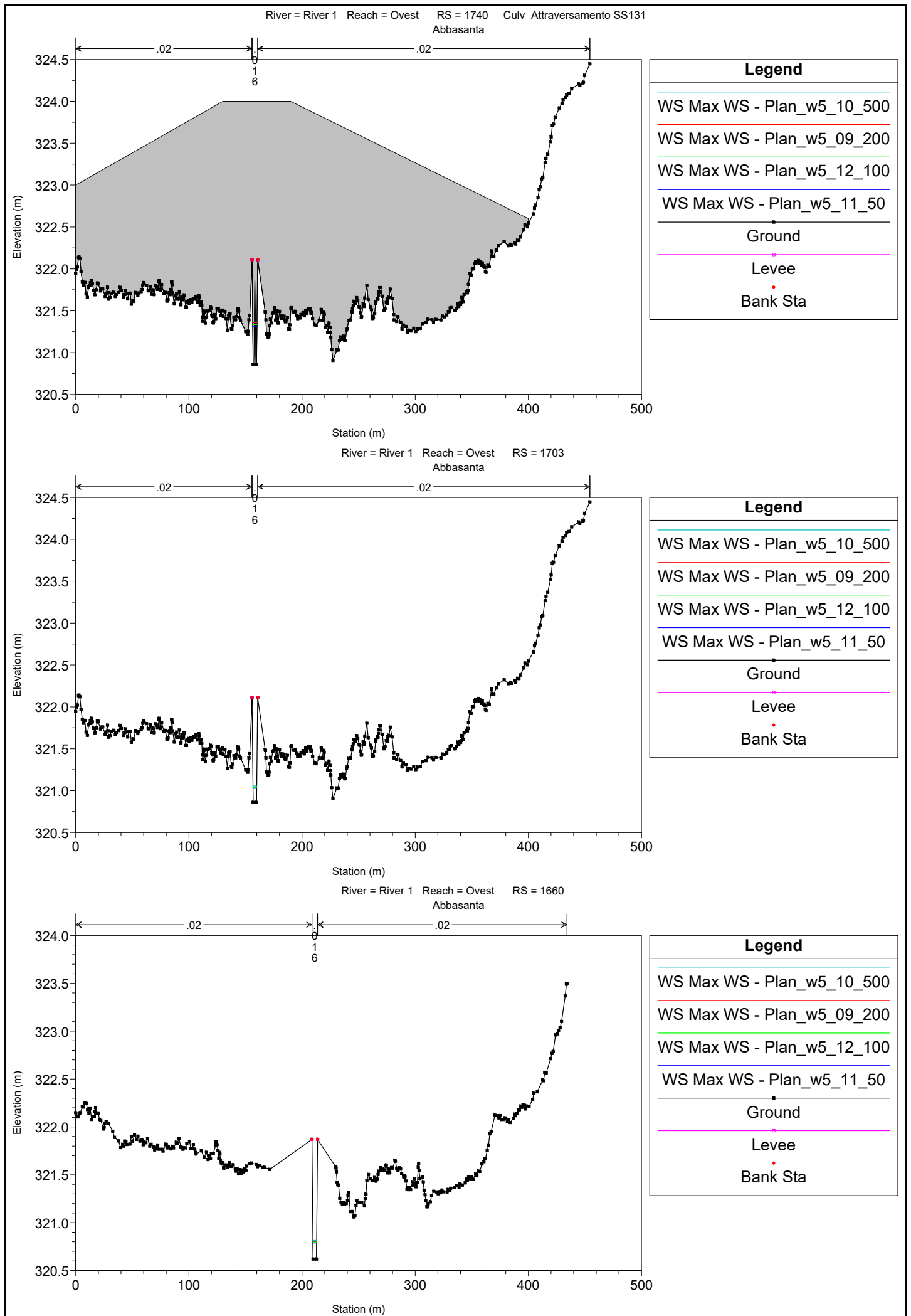


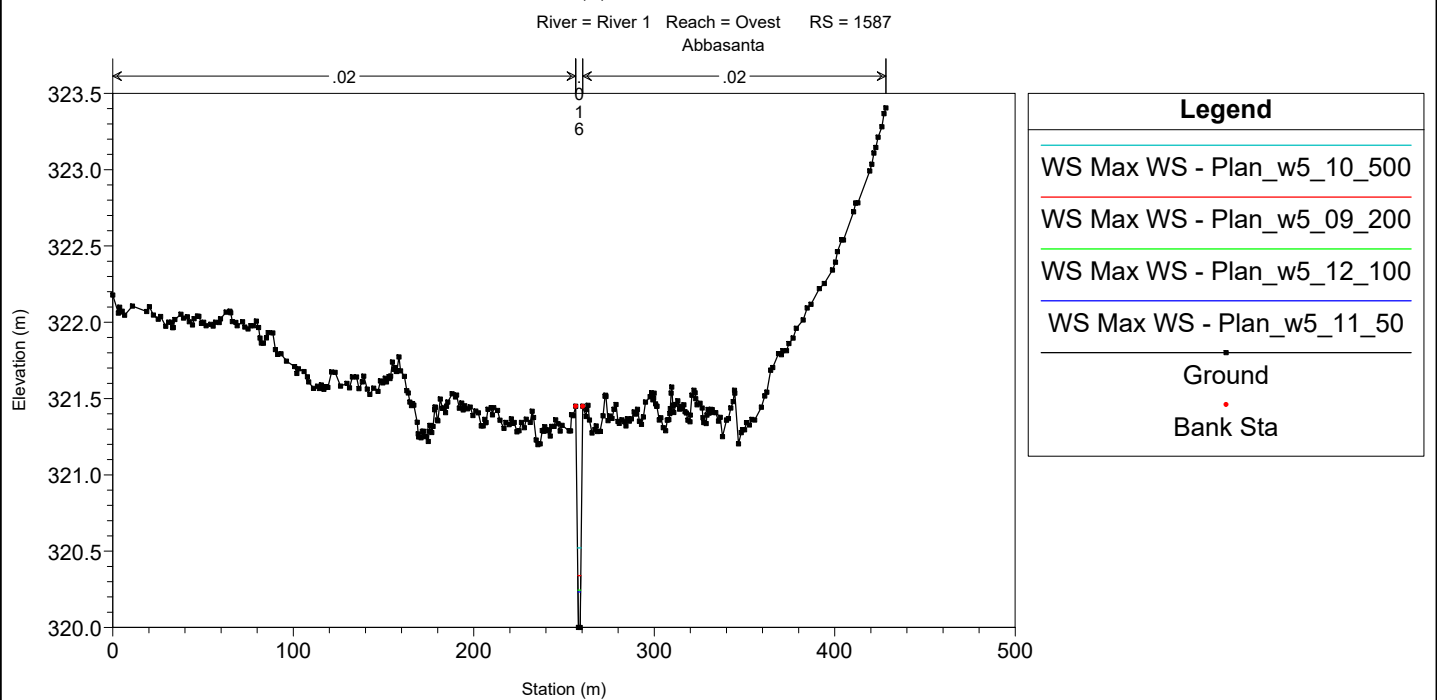
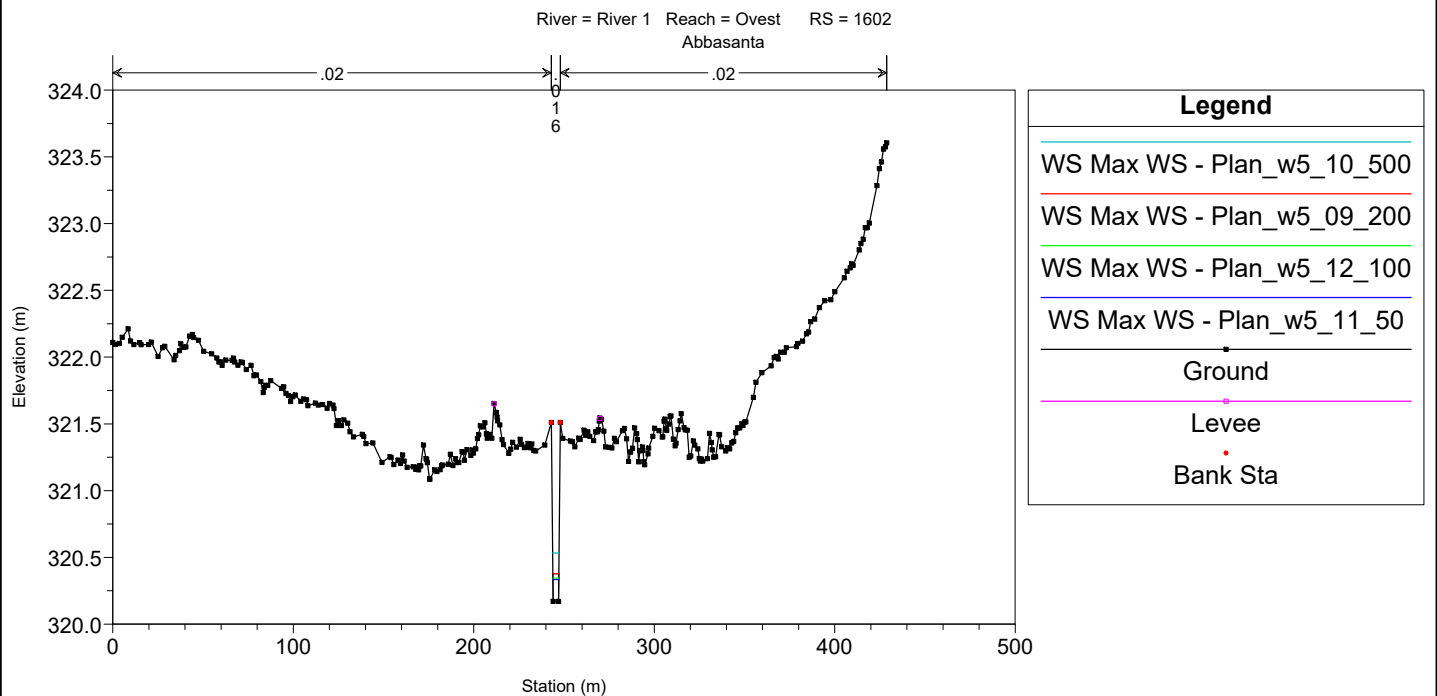
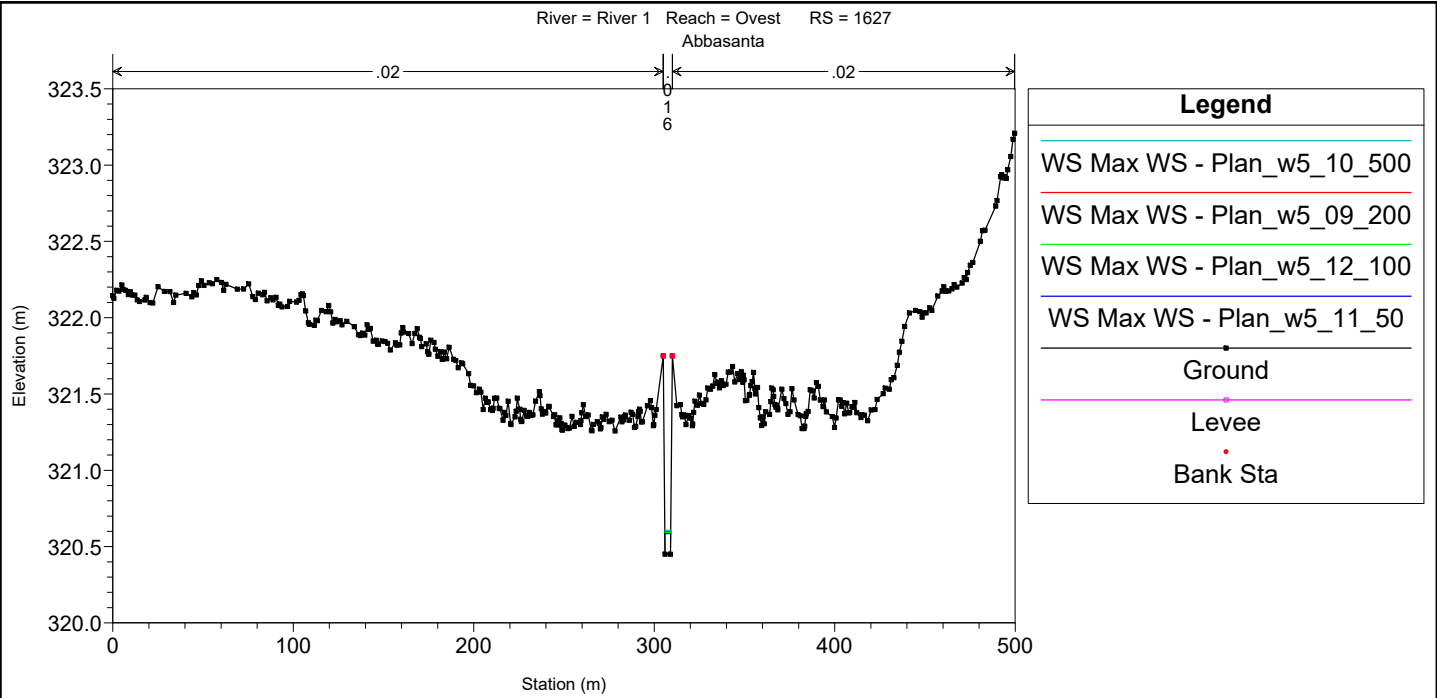


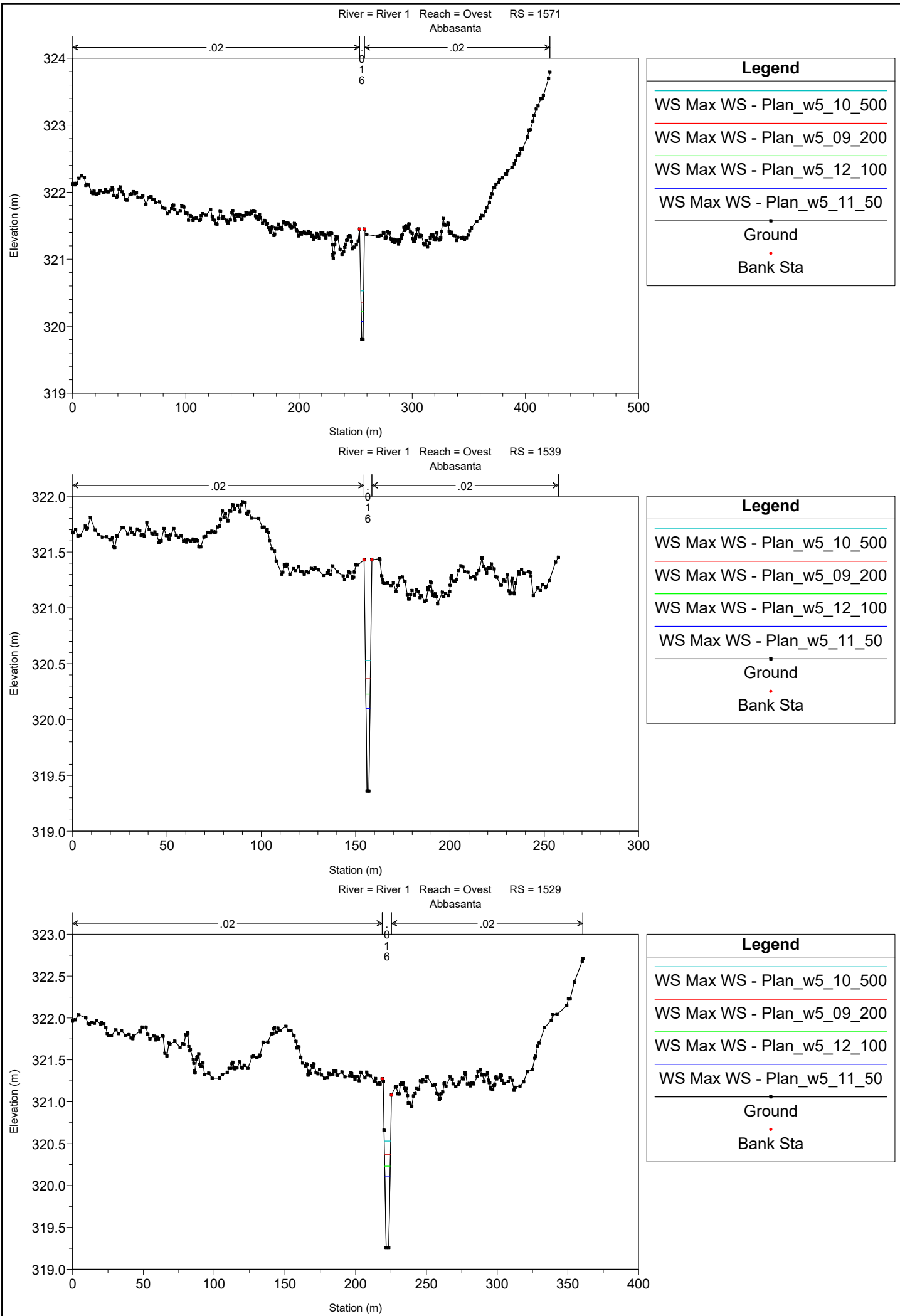


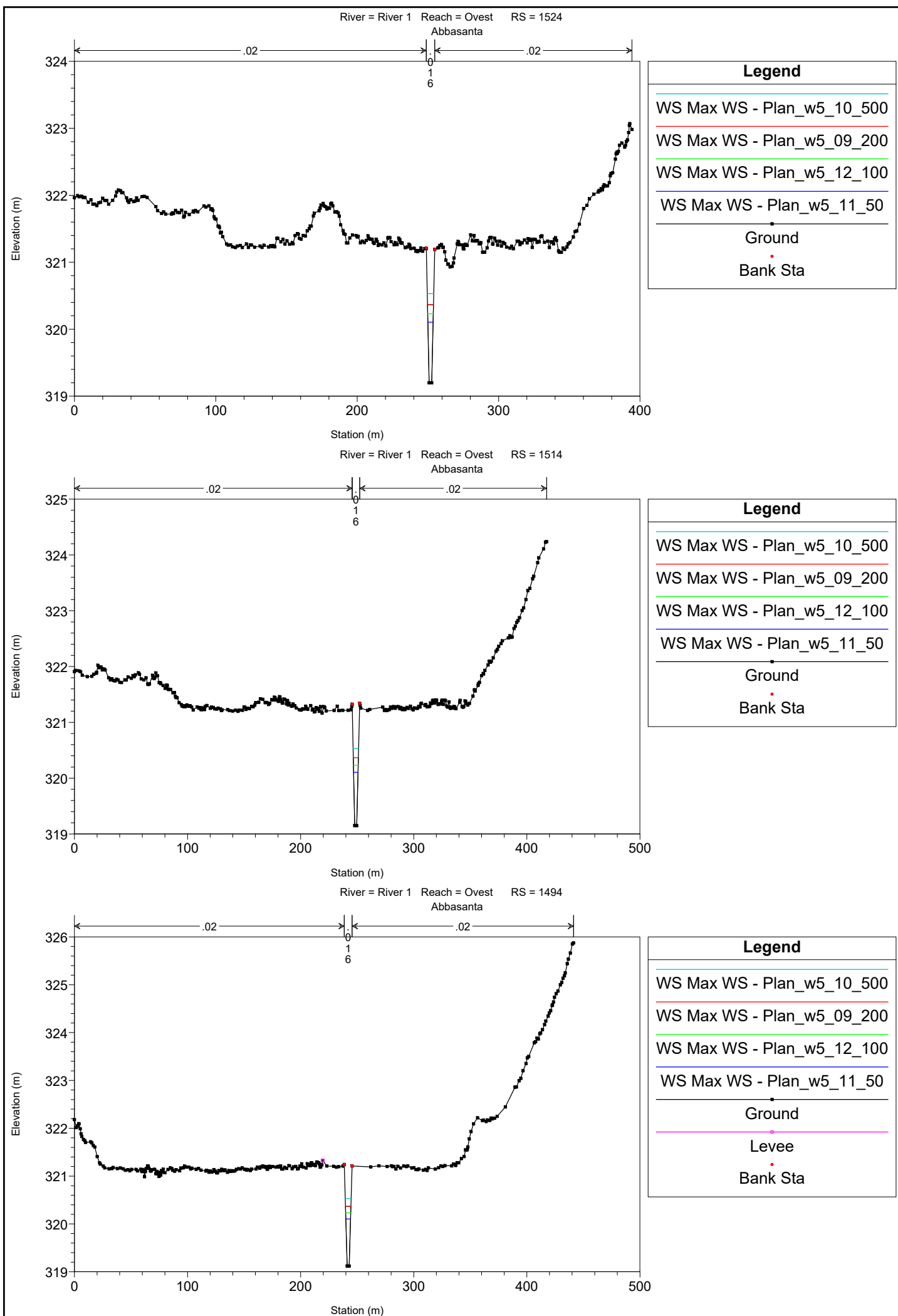


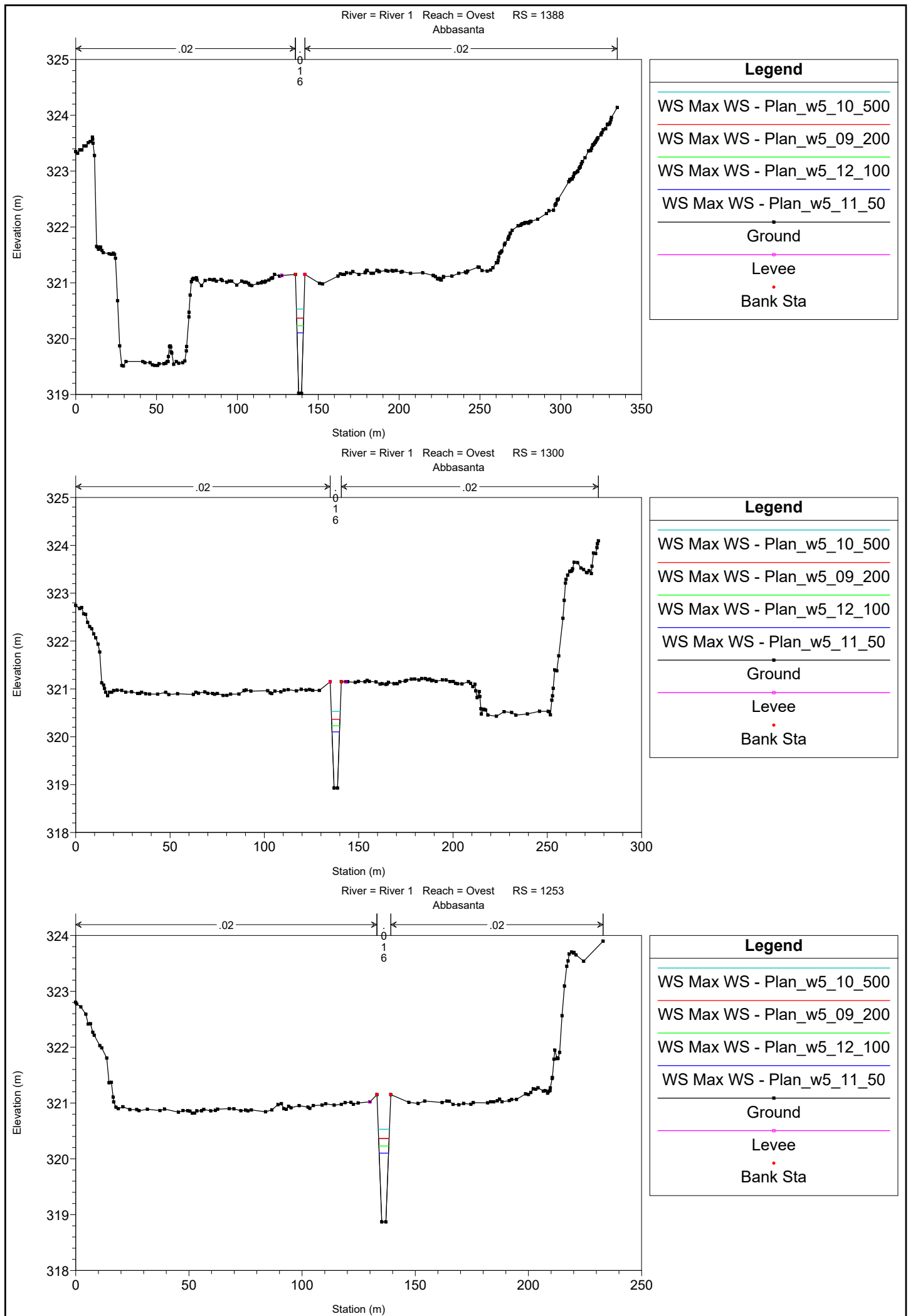


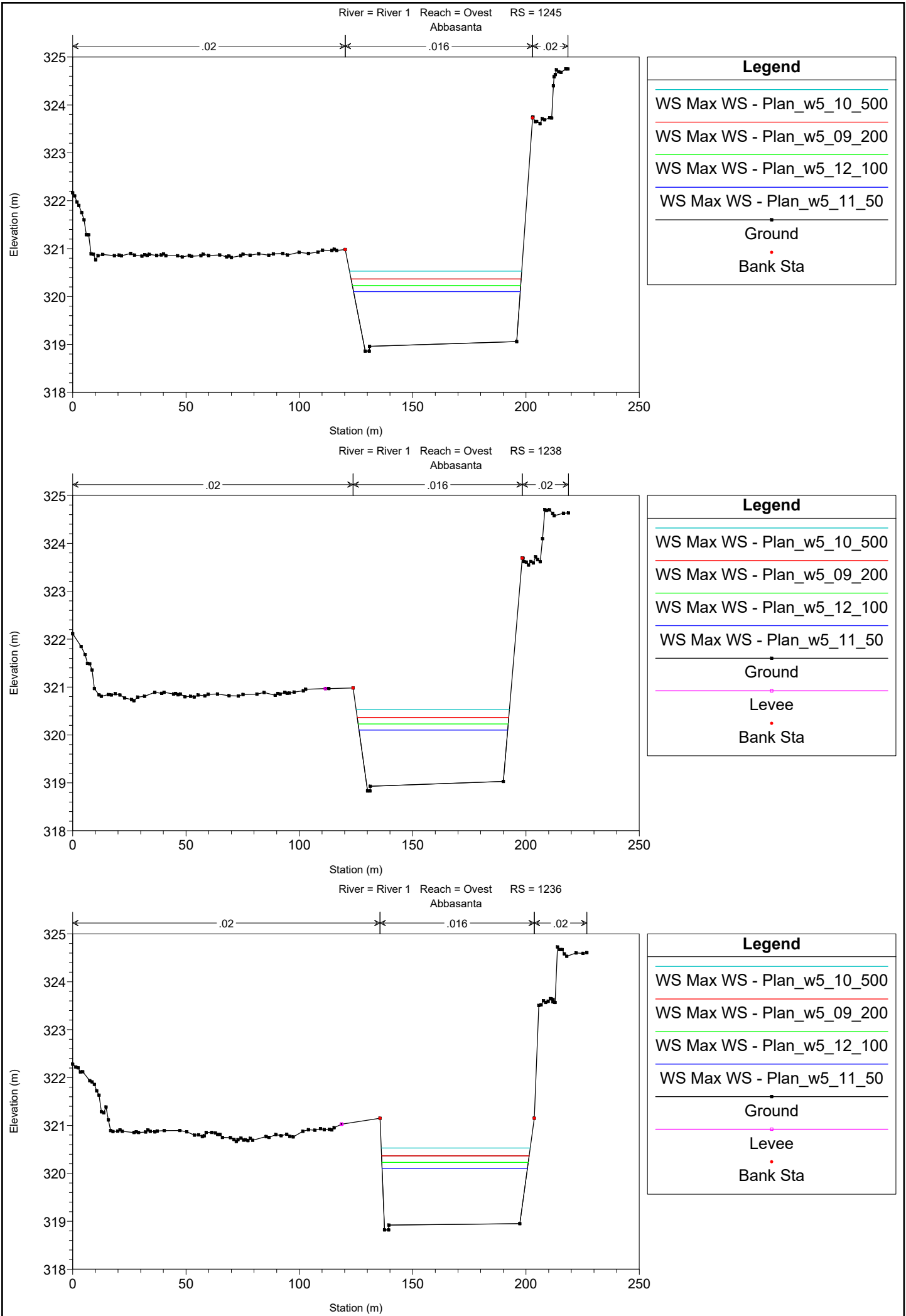


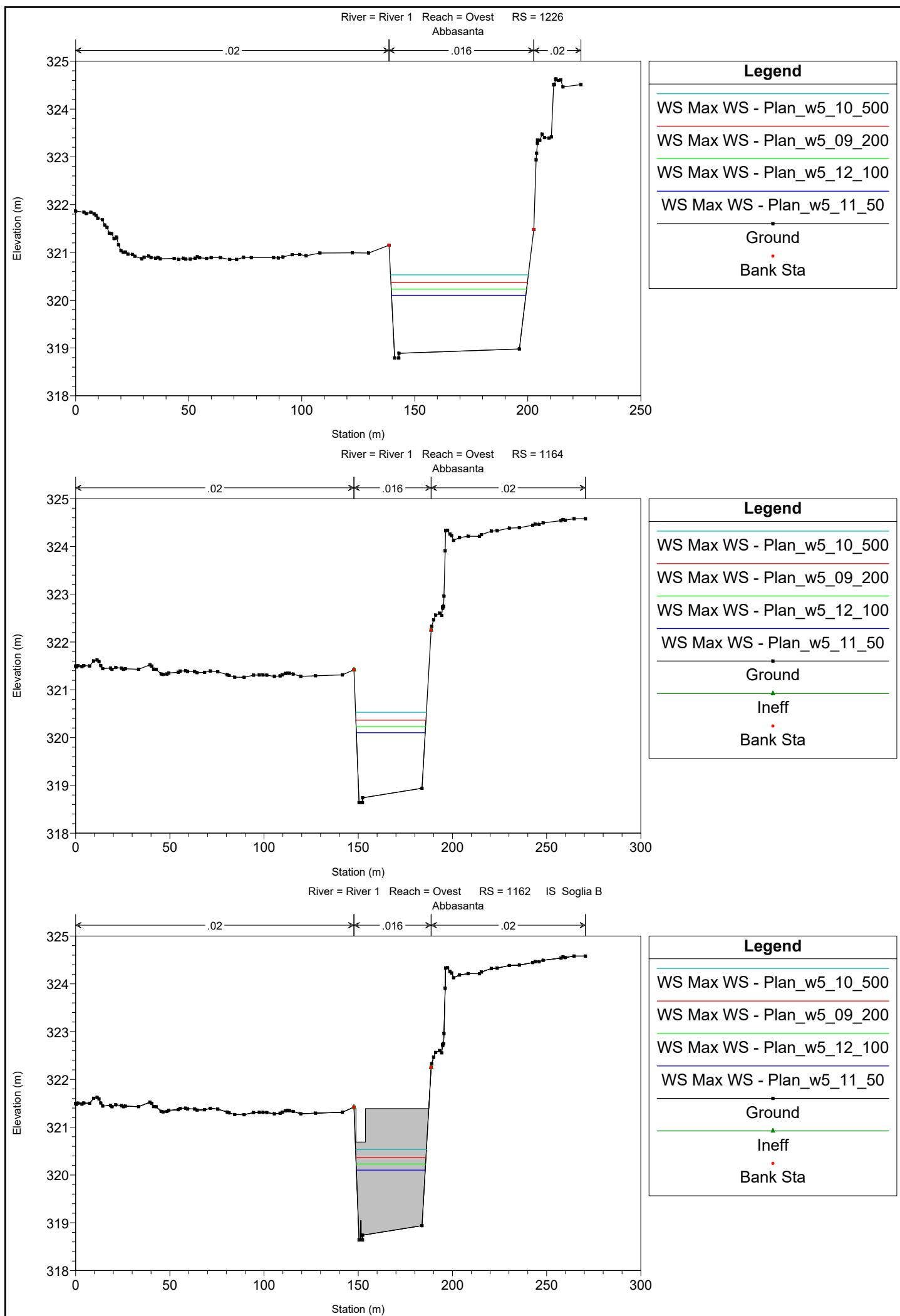


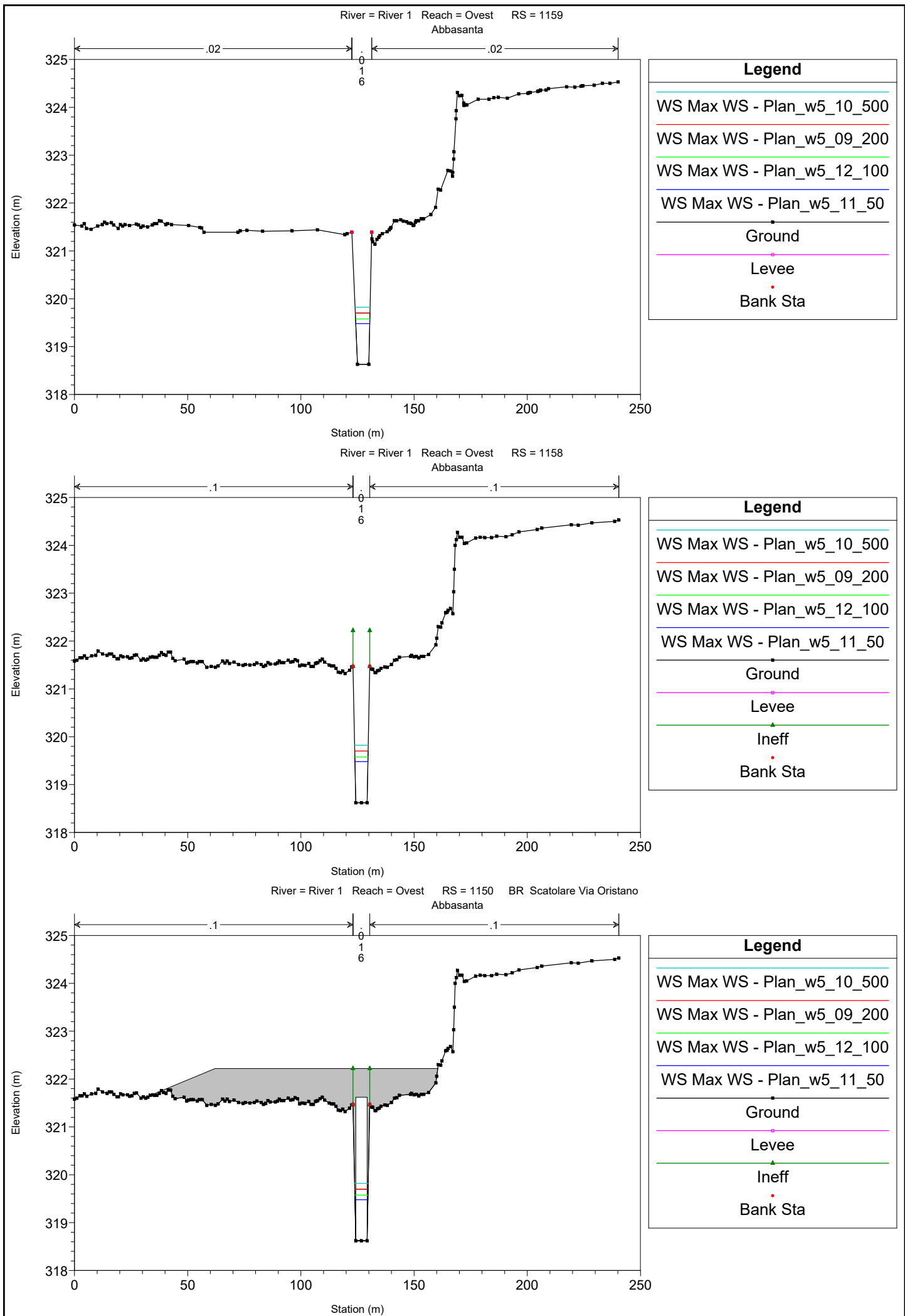


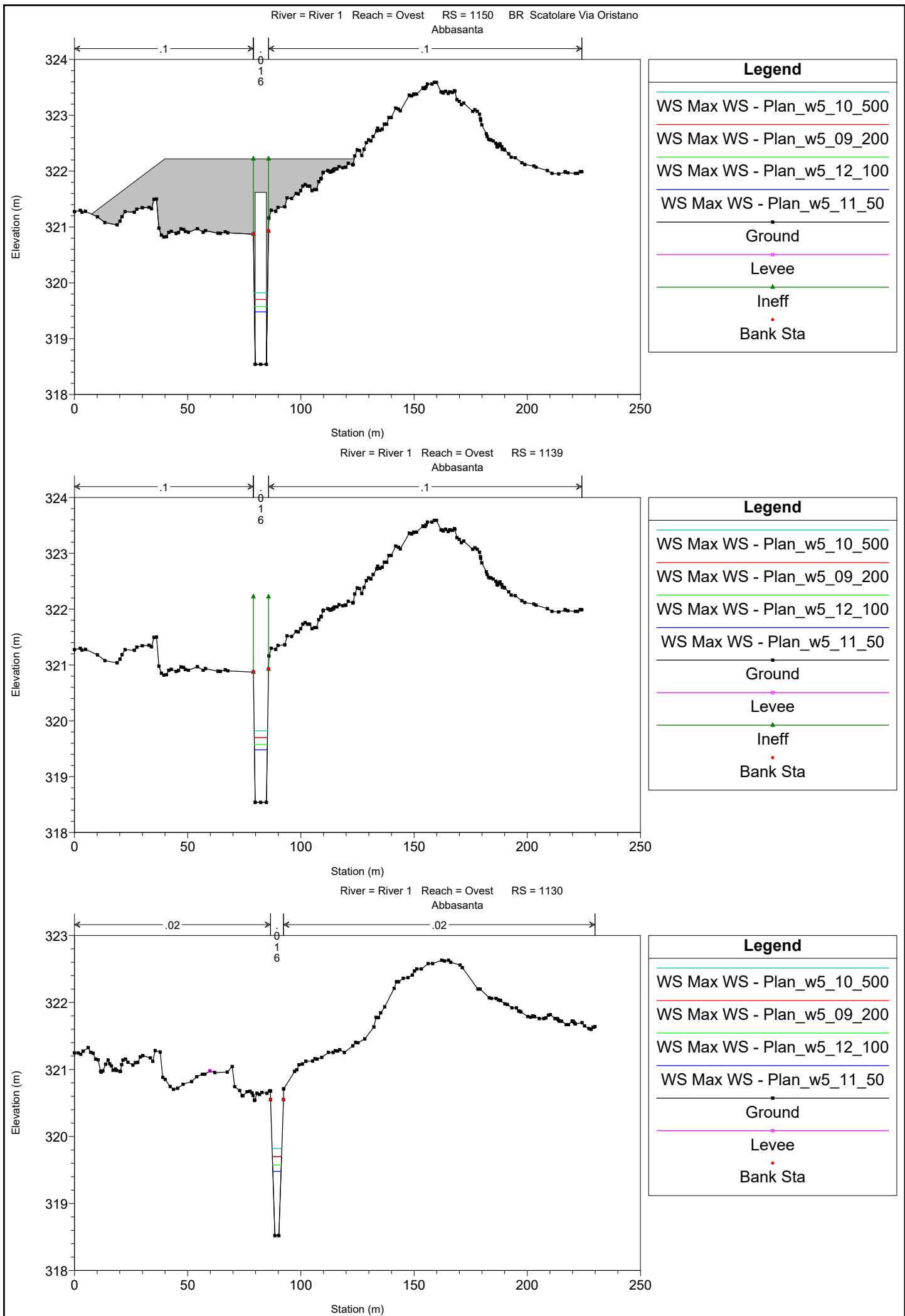


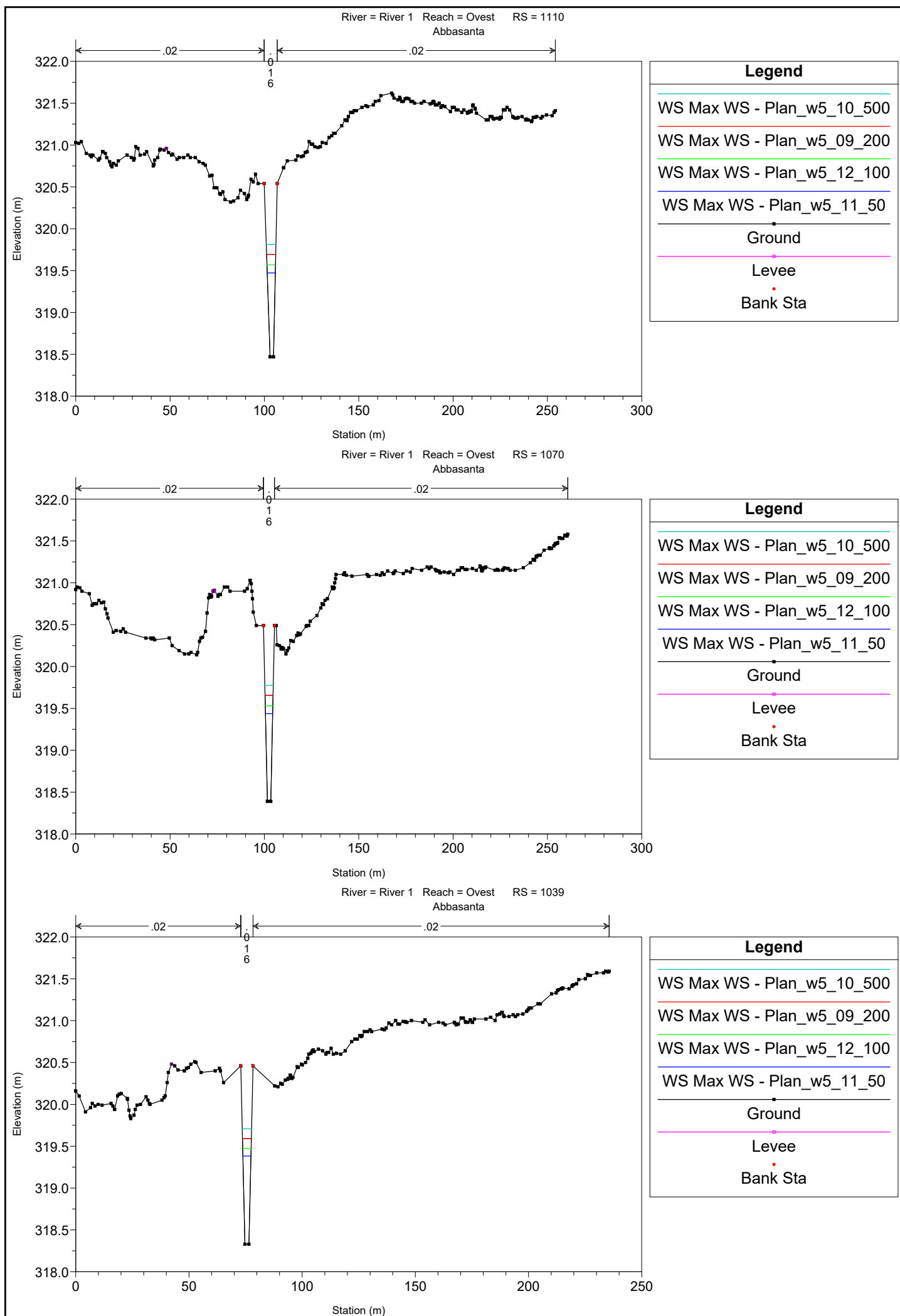


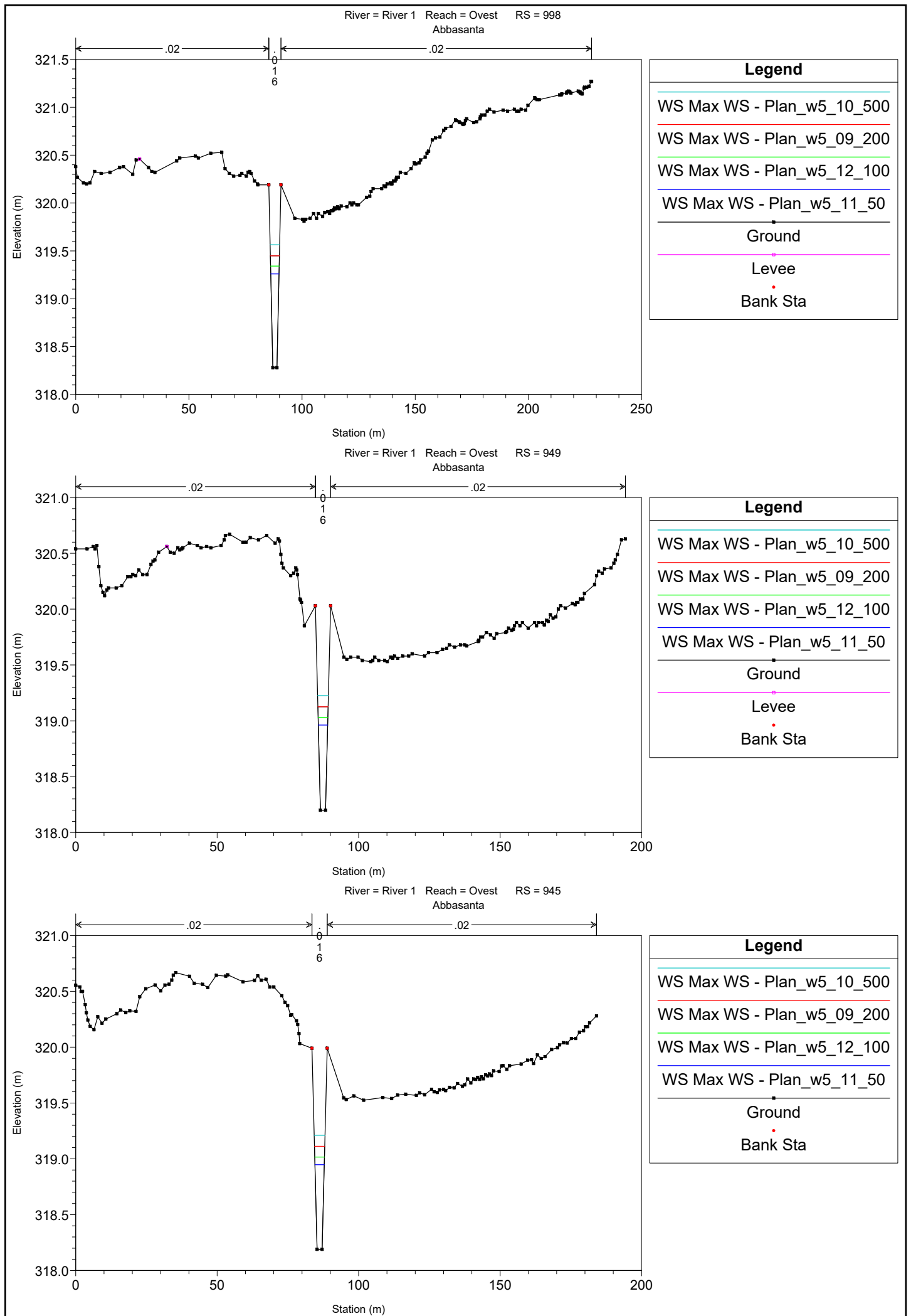


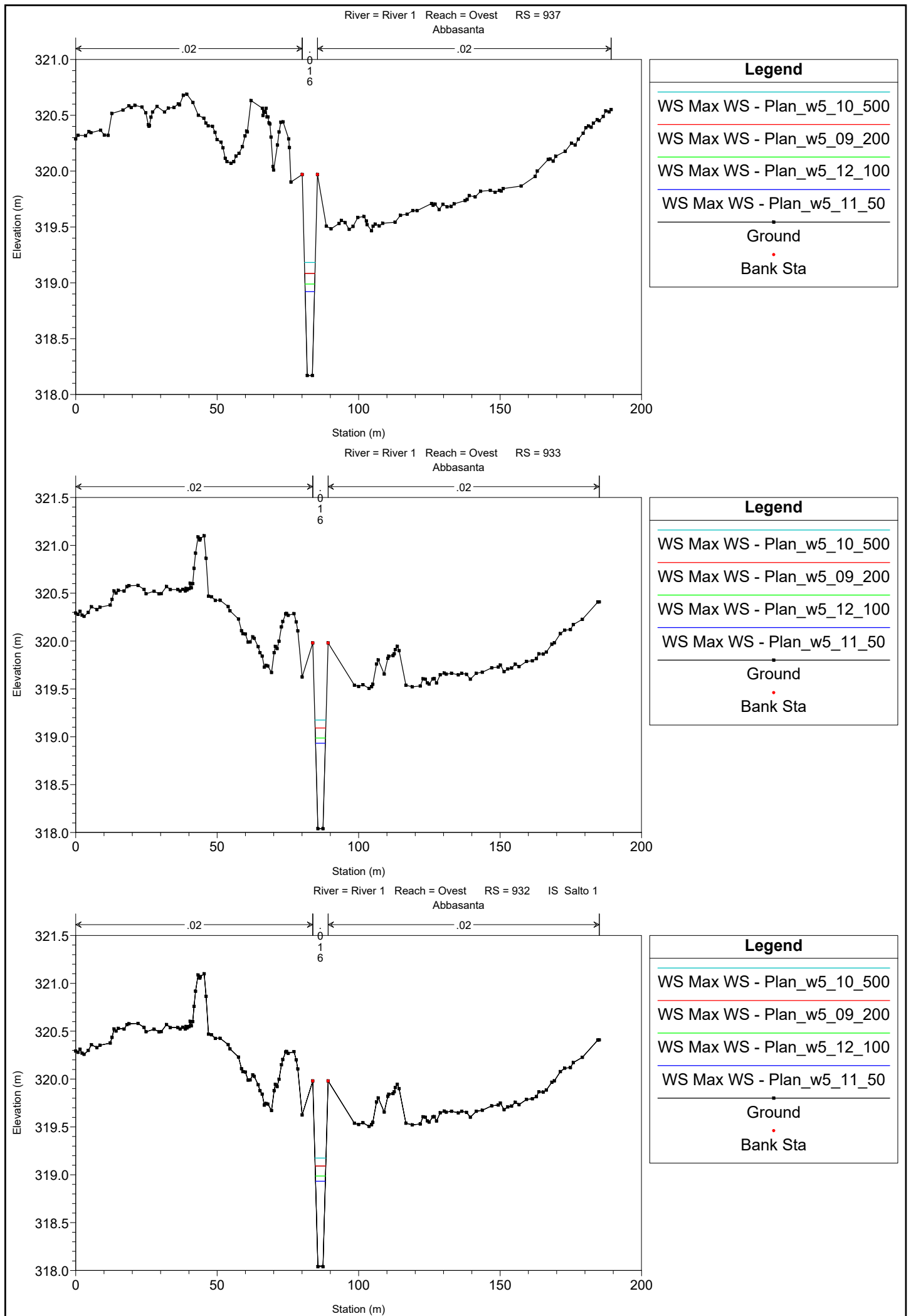


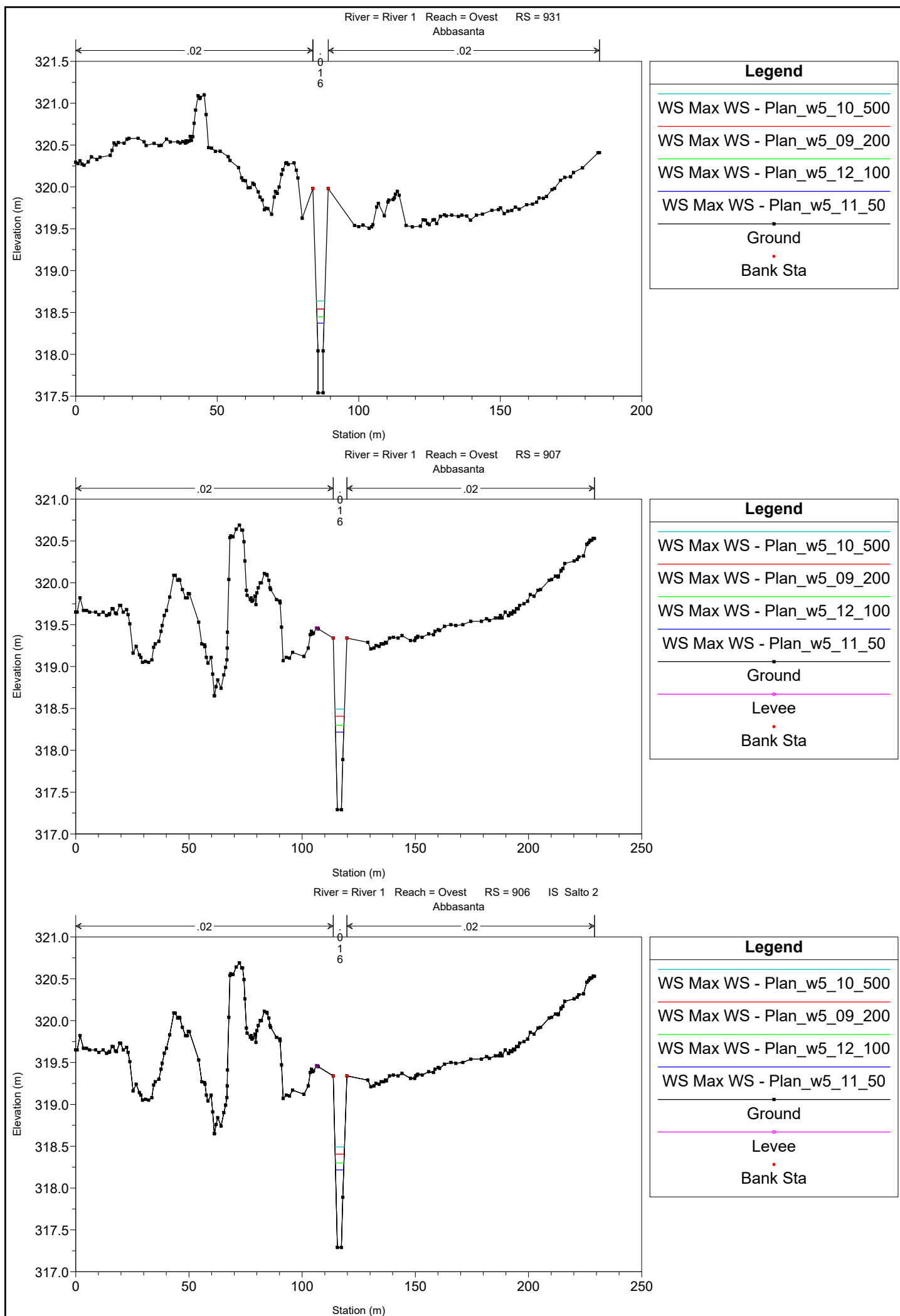


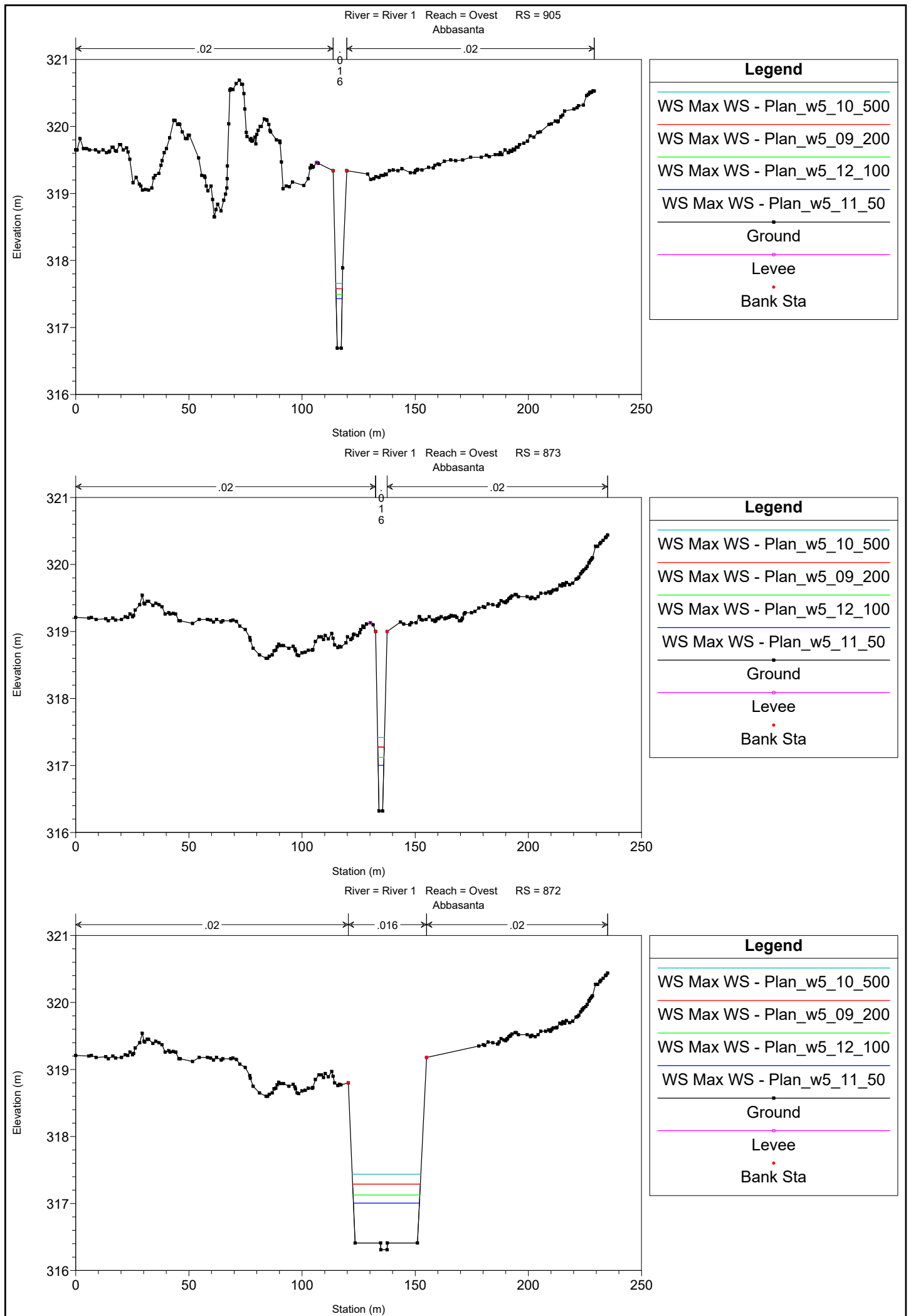


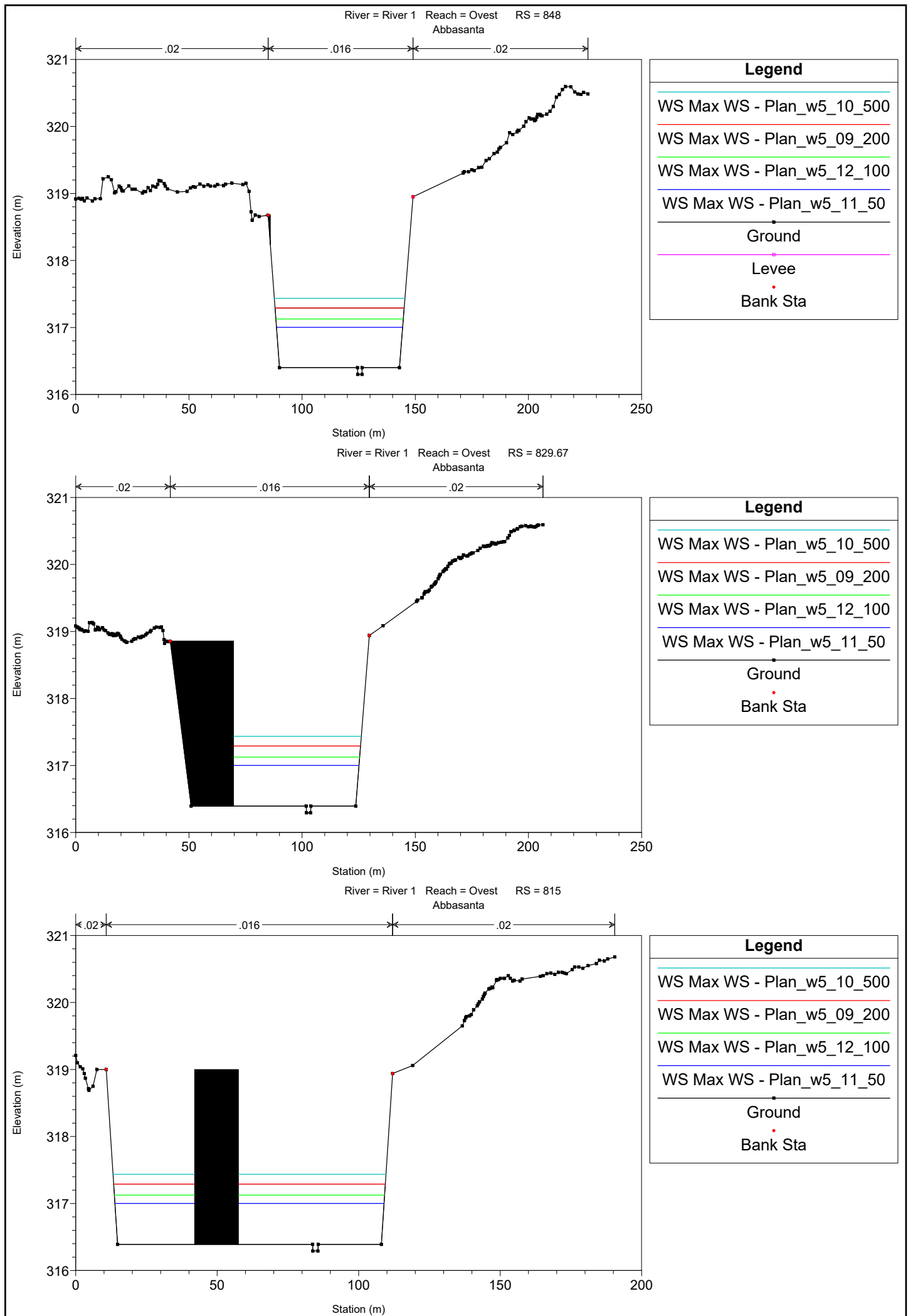


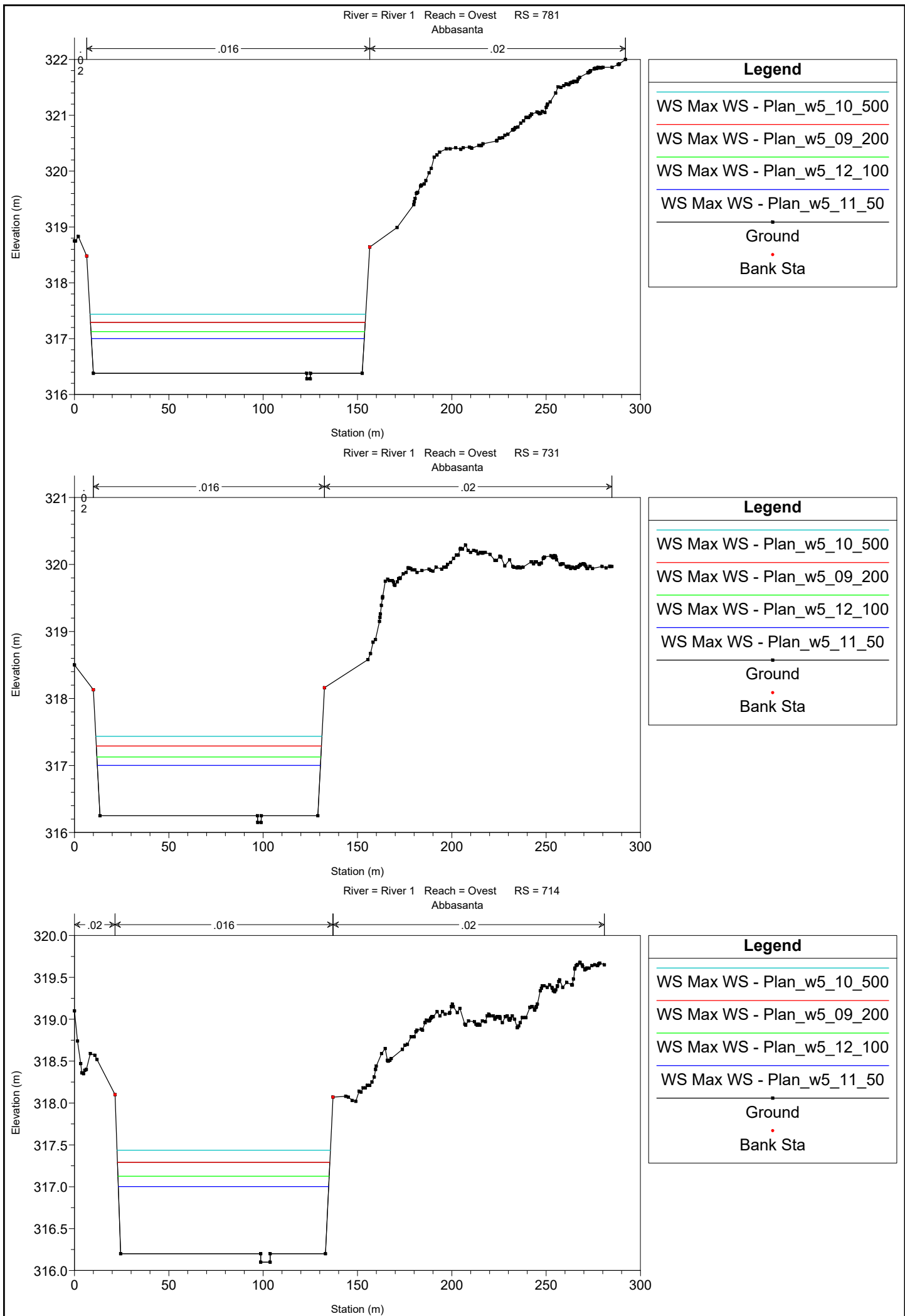




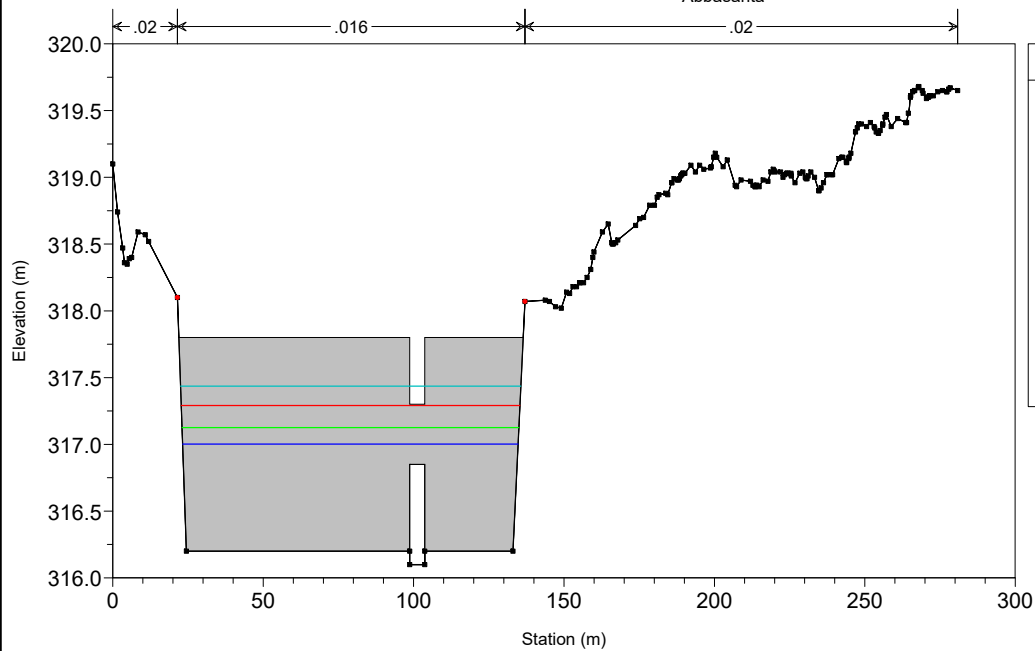








River = River 1 Reach = Ovest RS = 713 IS Soglia A
Abbasanta



Legend

WS Max WS - Plan_w5_10_500

WS Max WS - Plan_w5_09_200

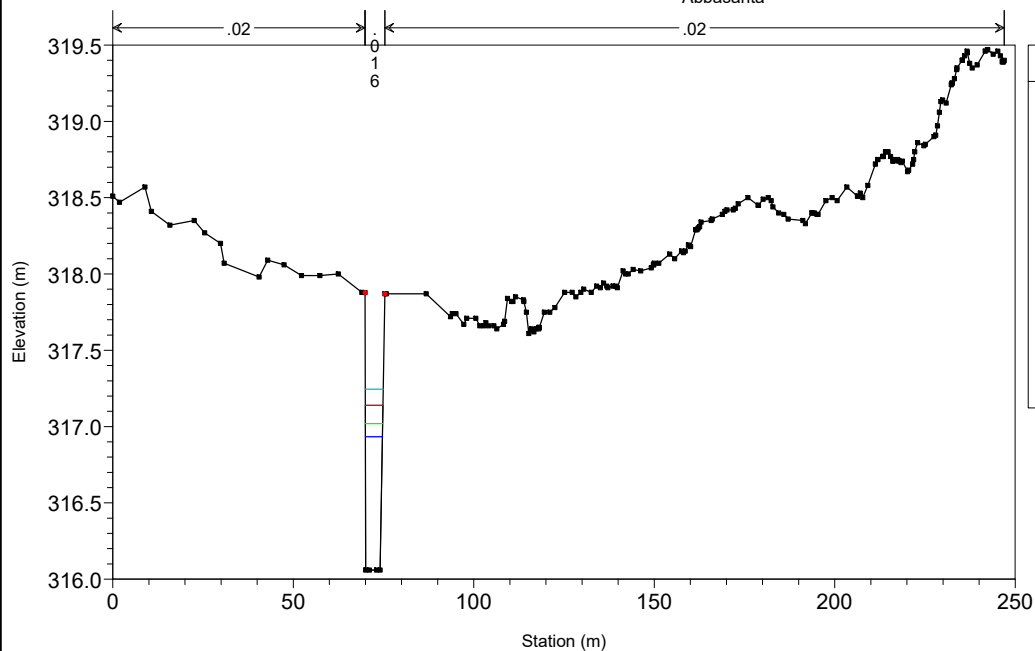
WS Max WS - Plan_w5_12_100

WS Max WS - Plan_w5_11_50

Ground

Bank Sta

River = River 1 Reach = Ovest RS = 696
Abbasanta



Legend

WS Max WS - Plan_w5_10_500

WS Max WS - Plan_w5_09_200

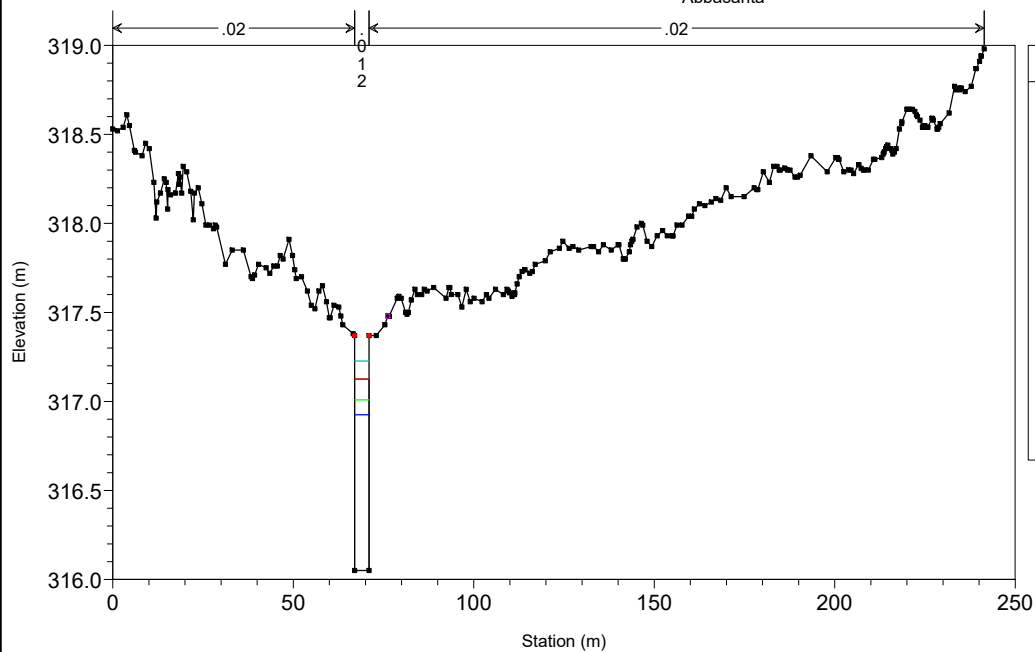
WS Max WS - Plan_w5_12_100

WS Max WS - Plan_w5_11_50

Ground

Bank Sta

River = River 1 Reach = Ovest RS = 690
Abbasanta



Legend

WS Max WS - Plan_w5_10_500

WS Max WS - Plan_w5_09_200

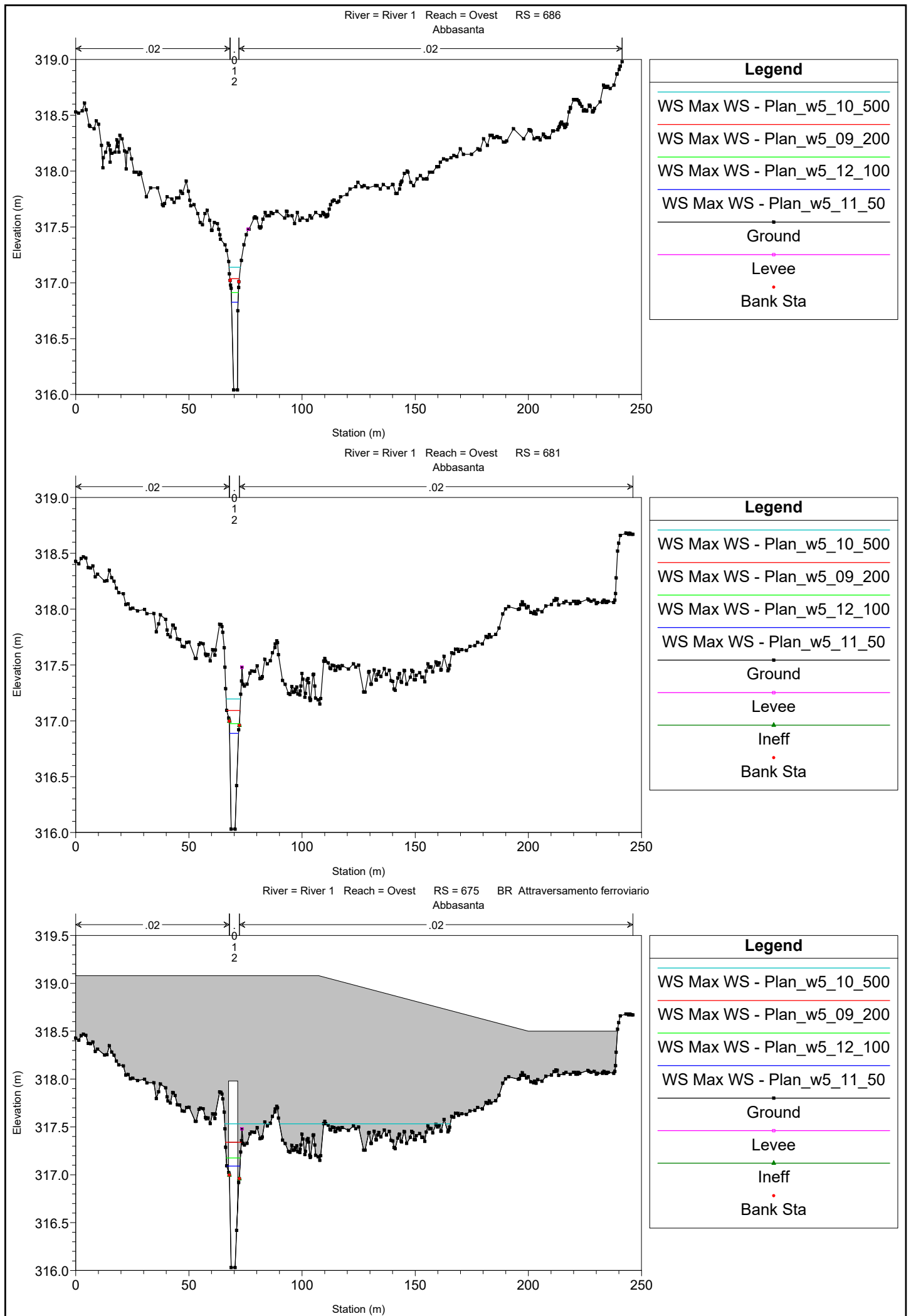
WS Max WS - Plan_w5_12_100

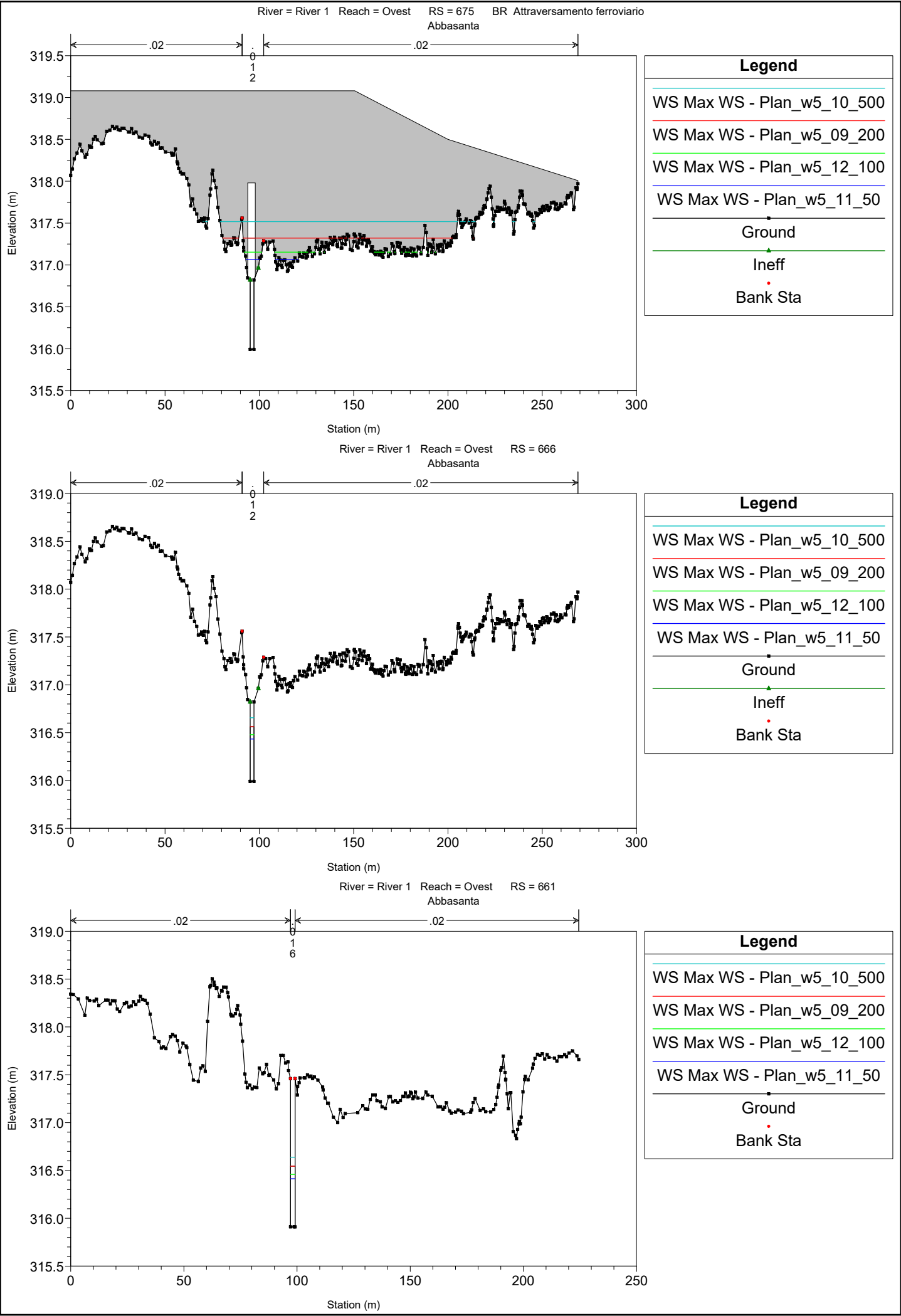
WS Max WS - Plan_w5_11_50

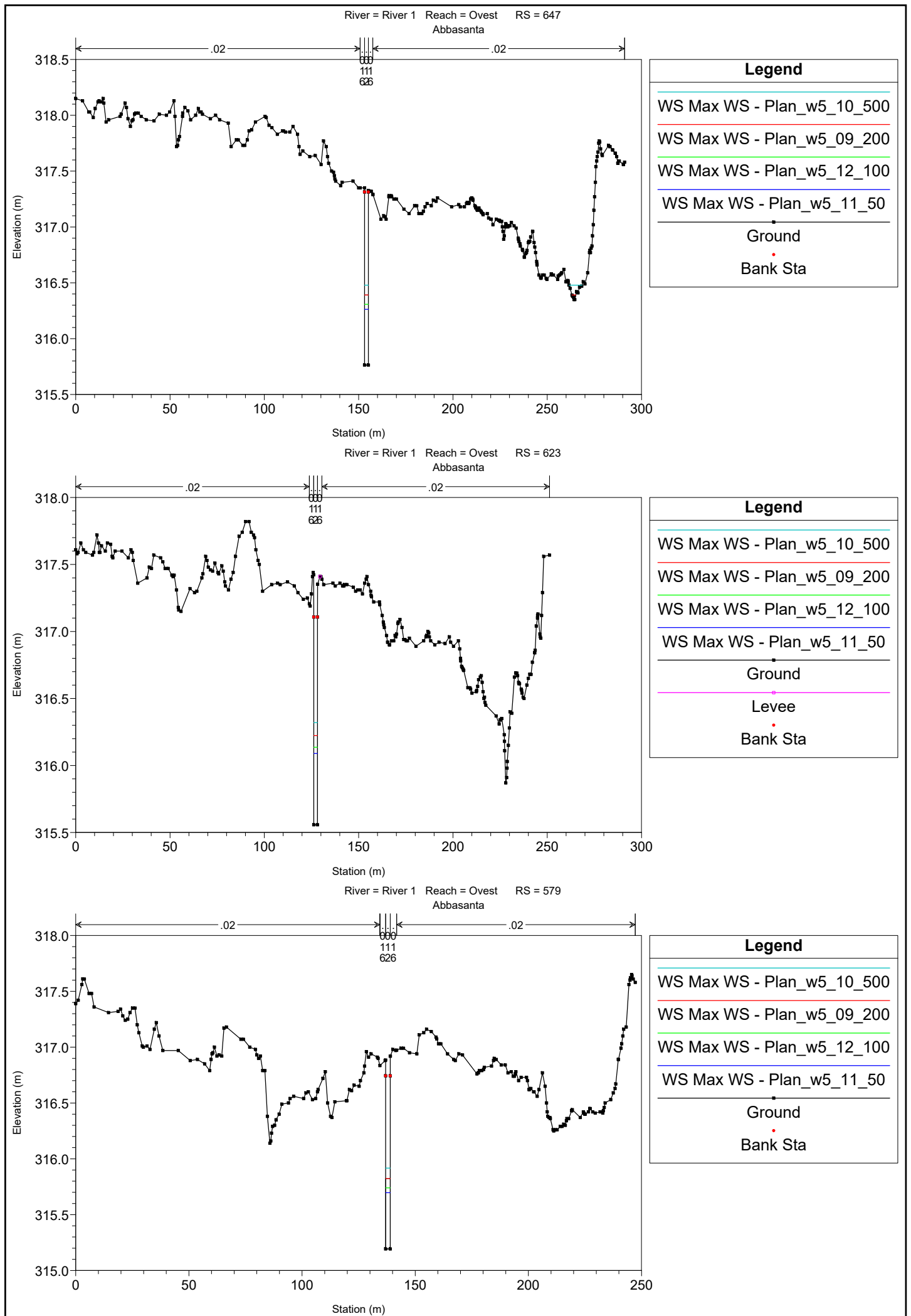
Ground

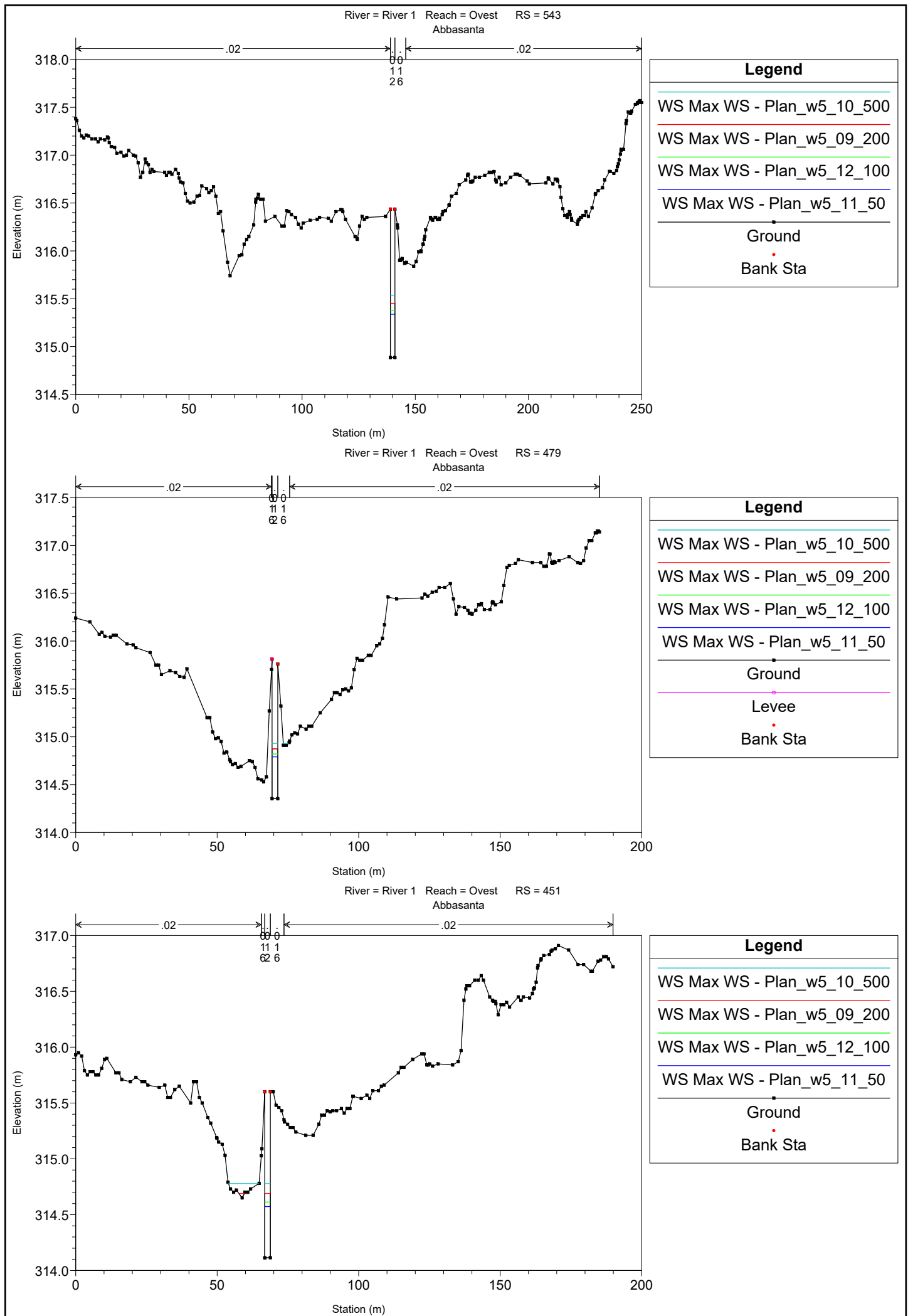
Levee

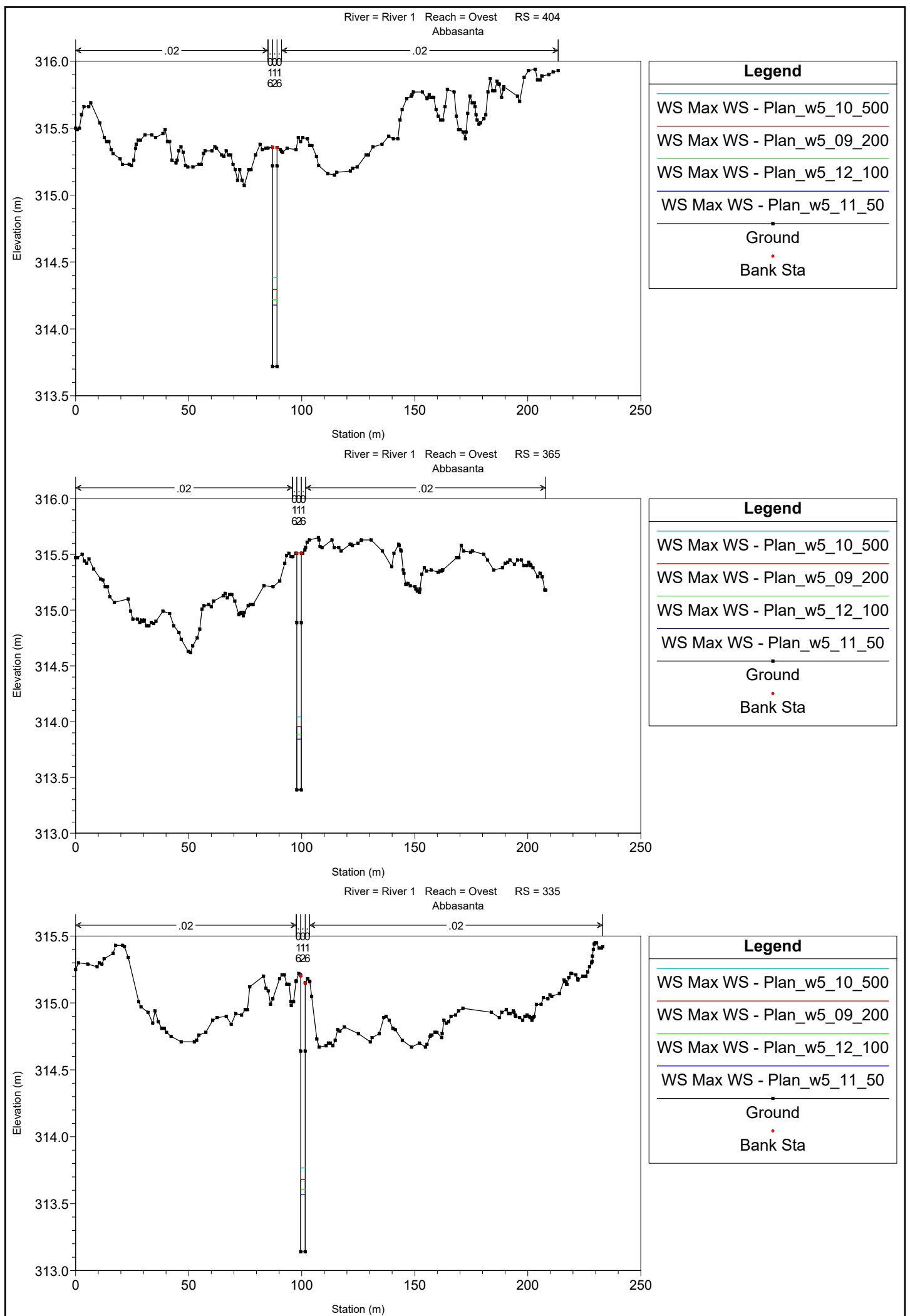
Bank Sta

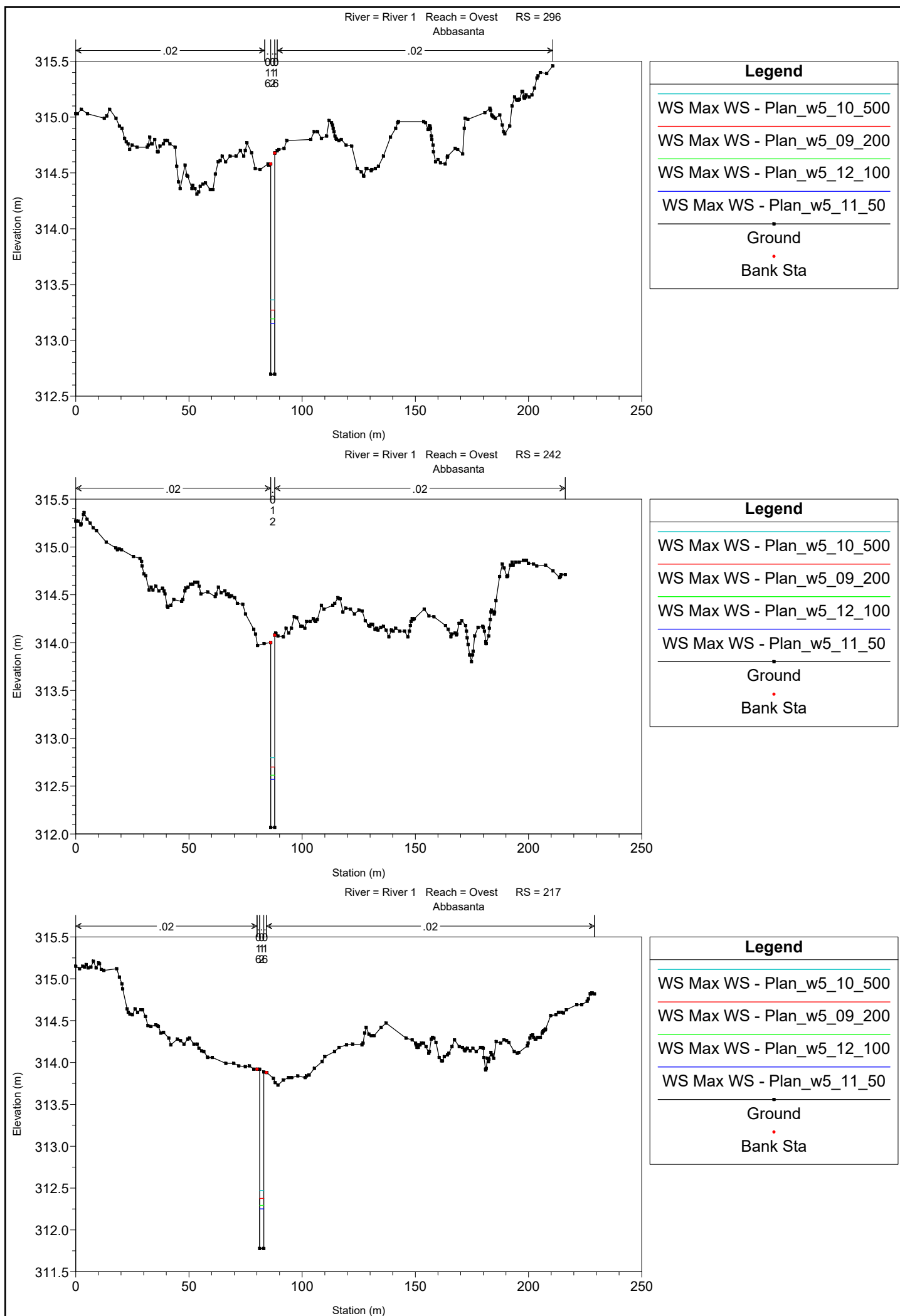


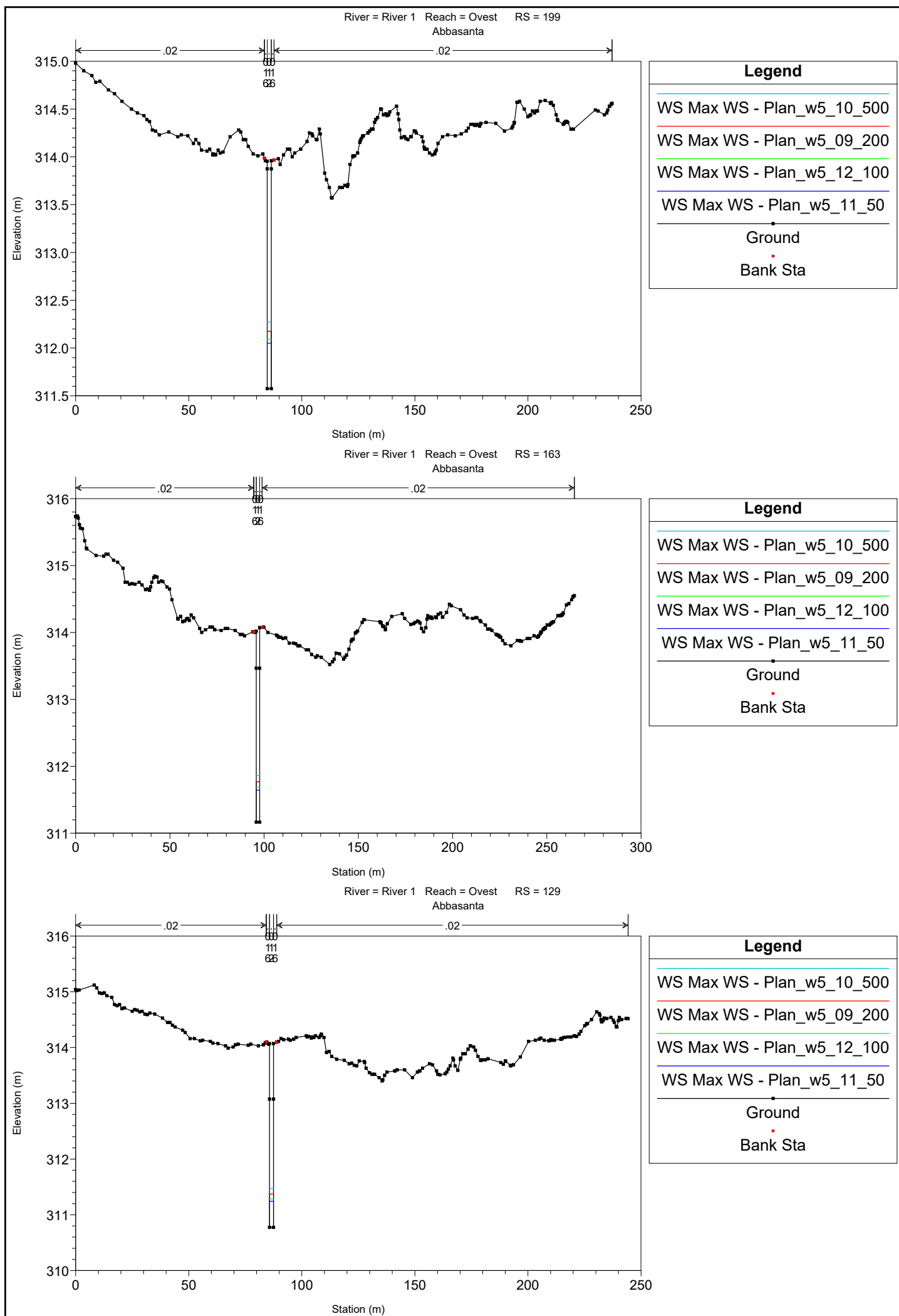


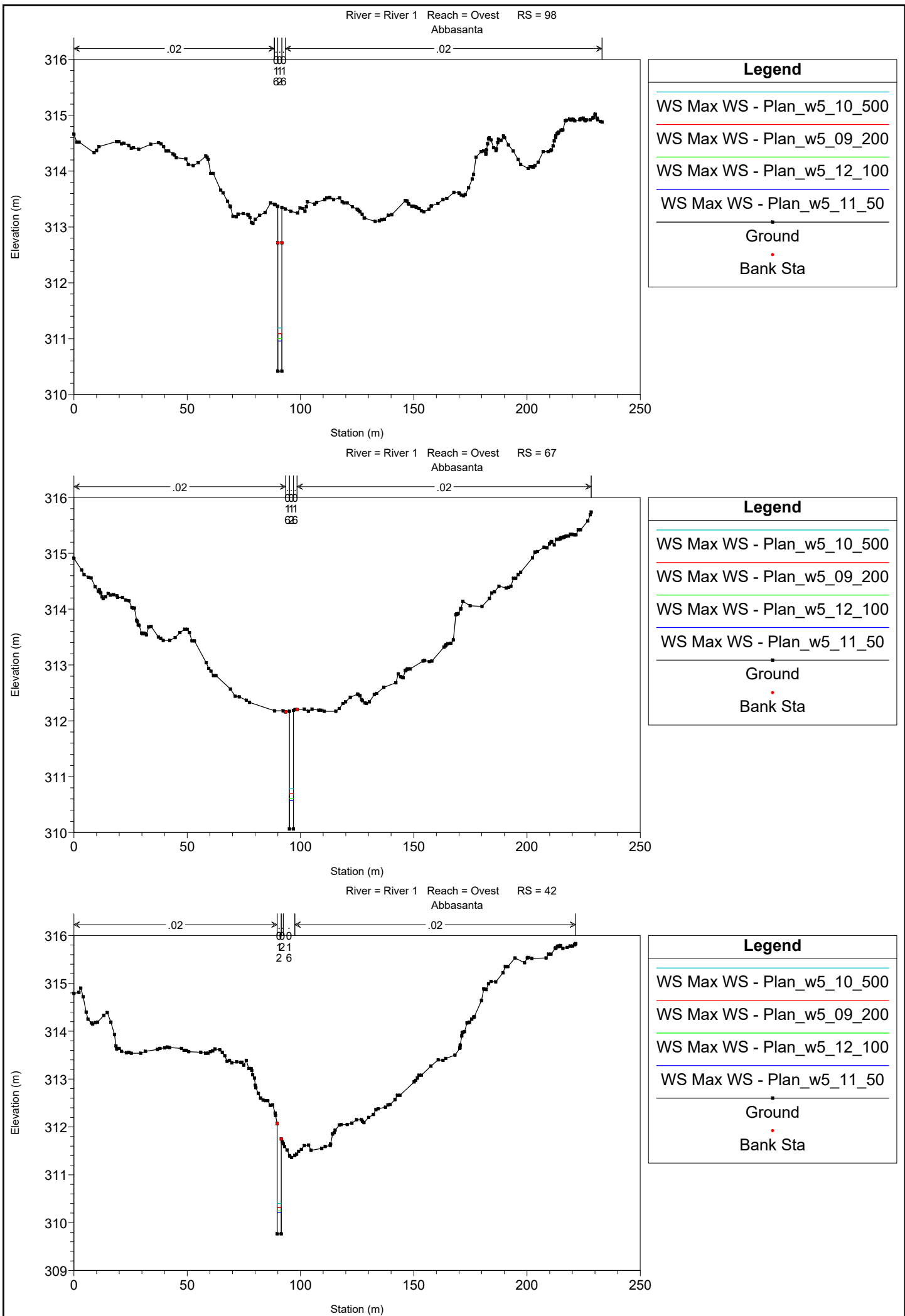


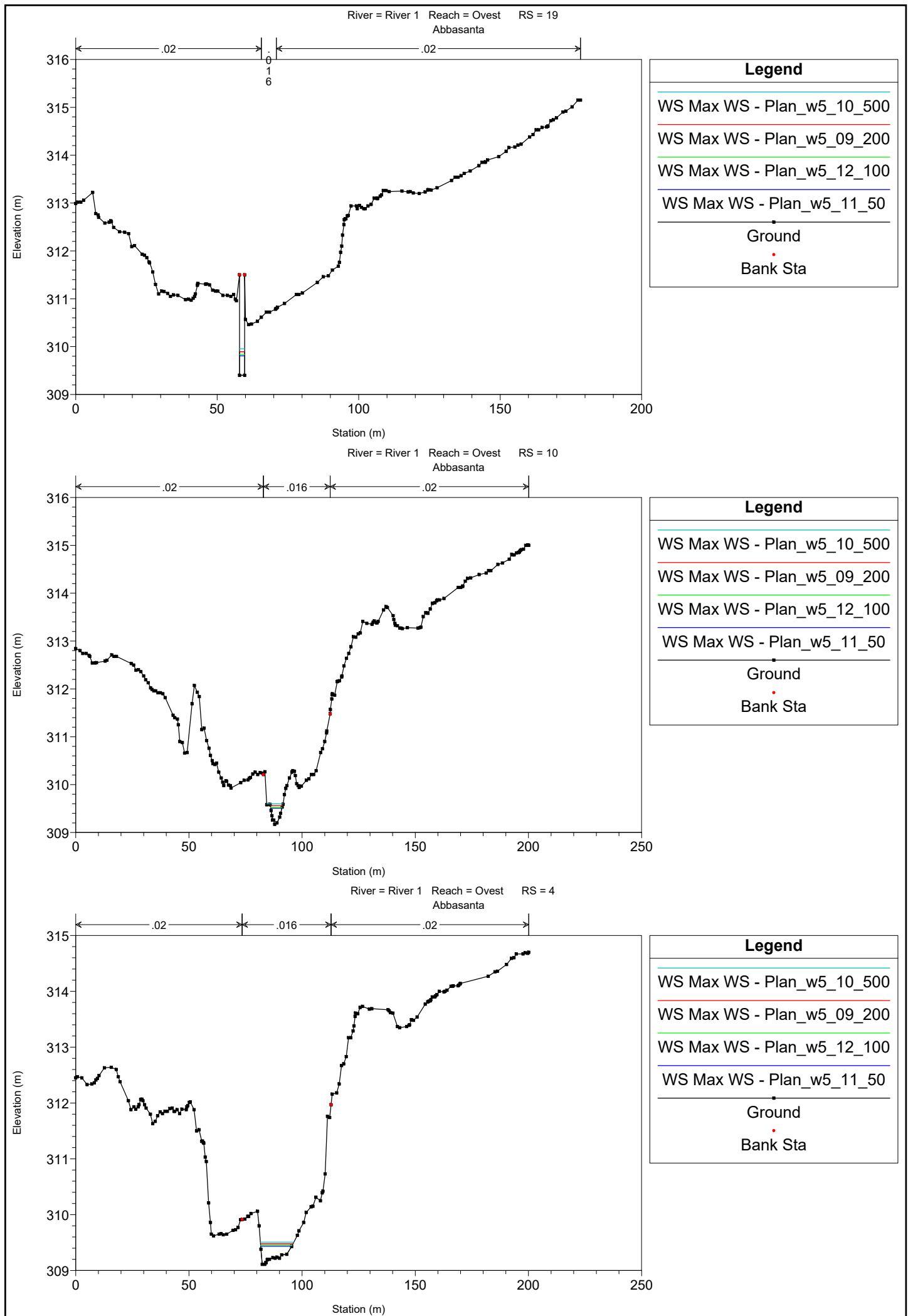




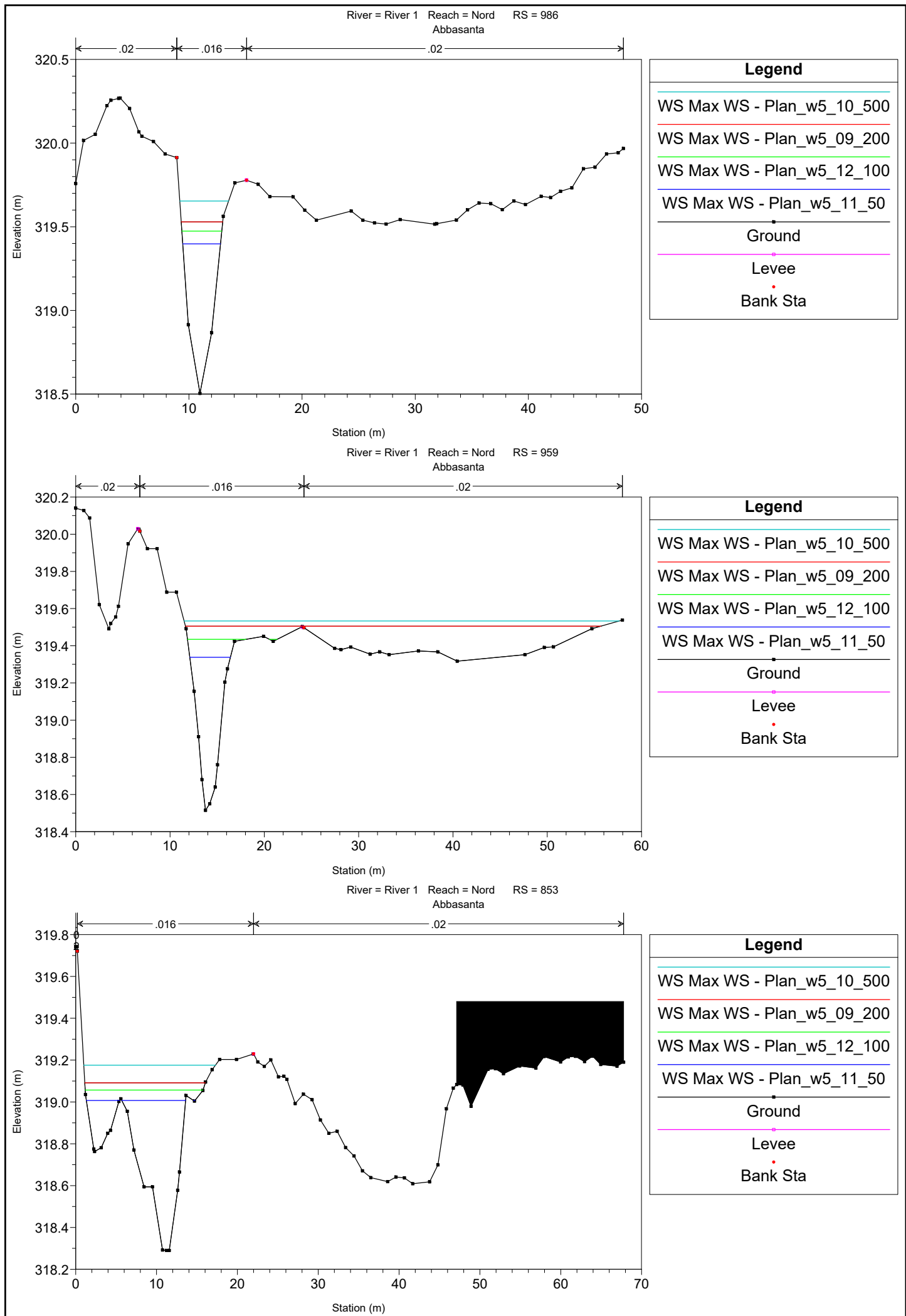




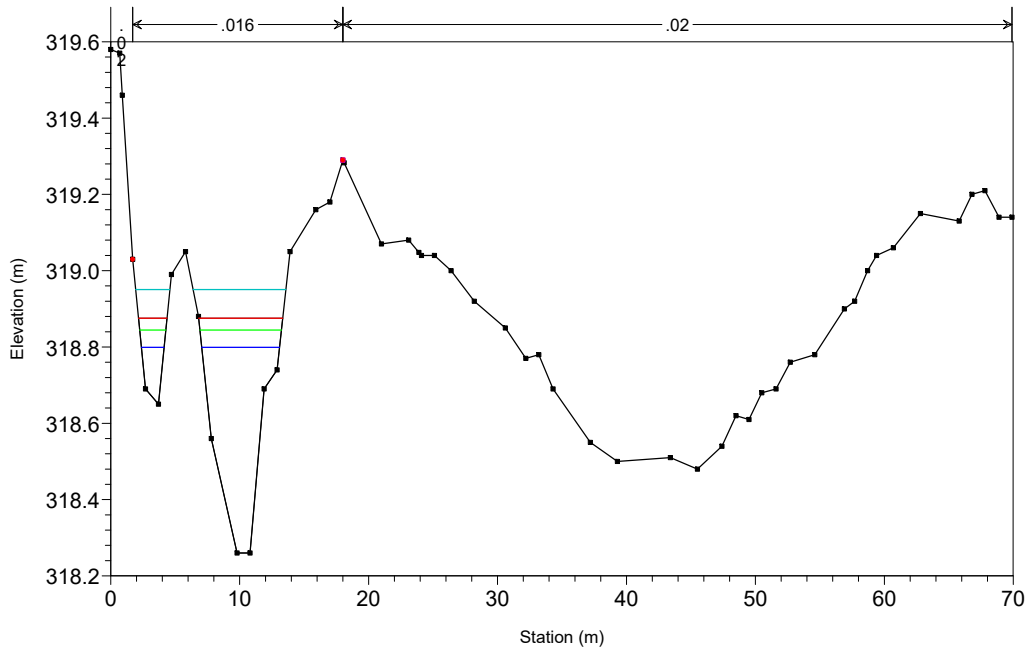




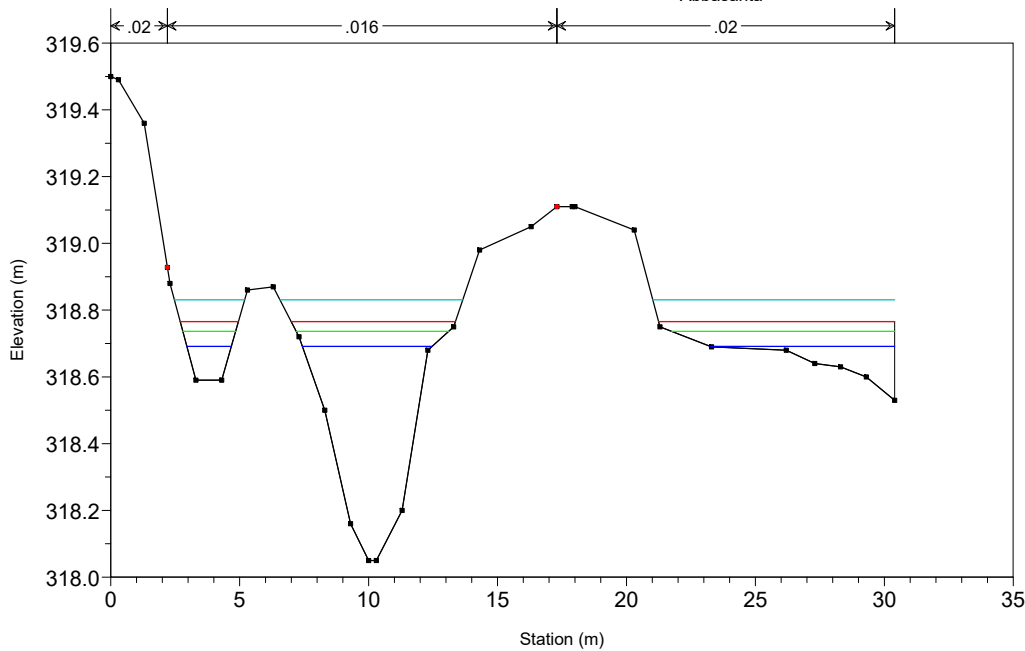


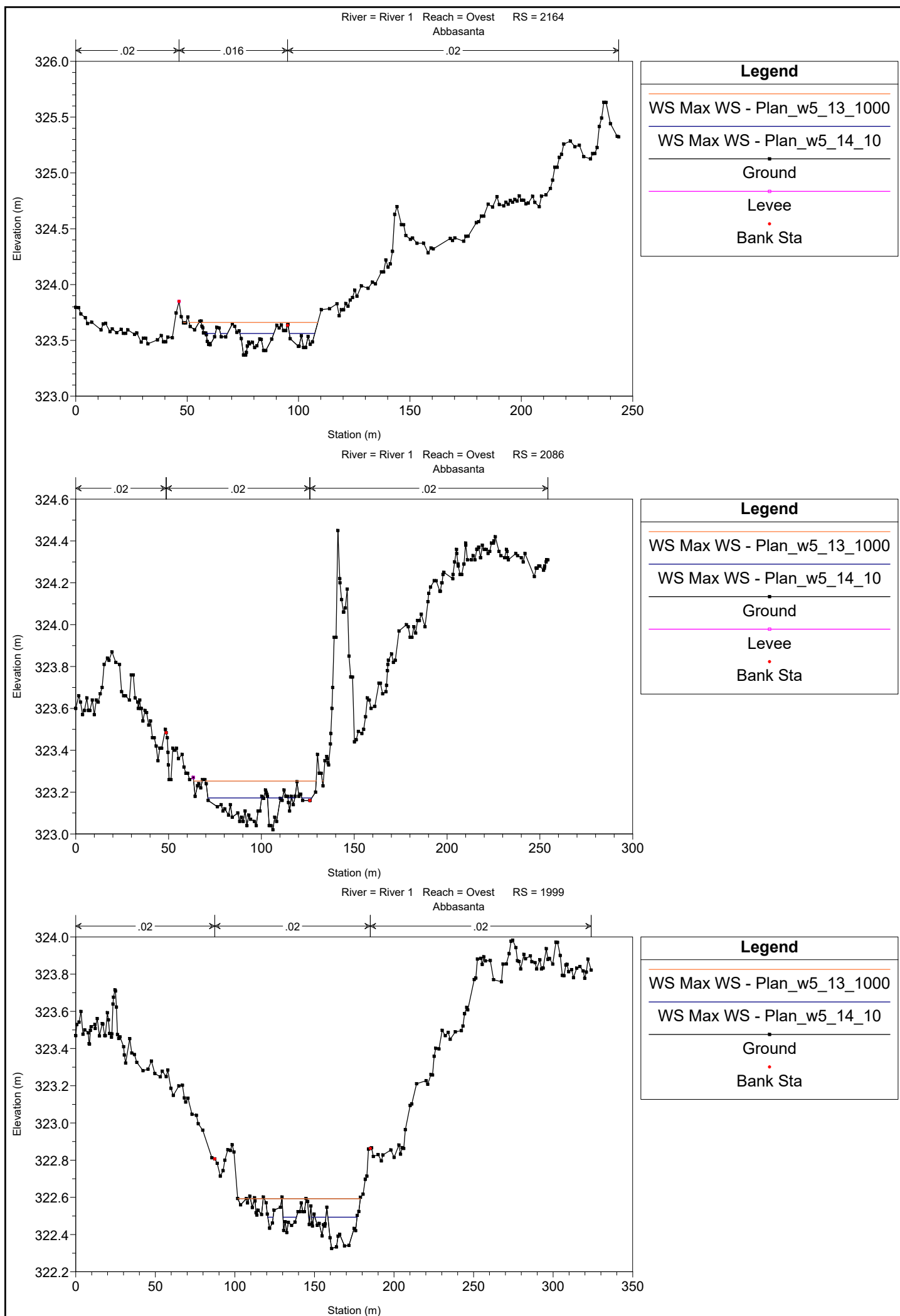


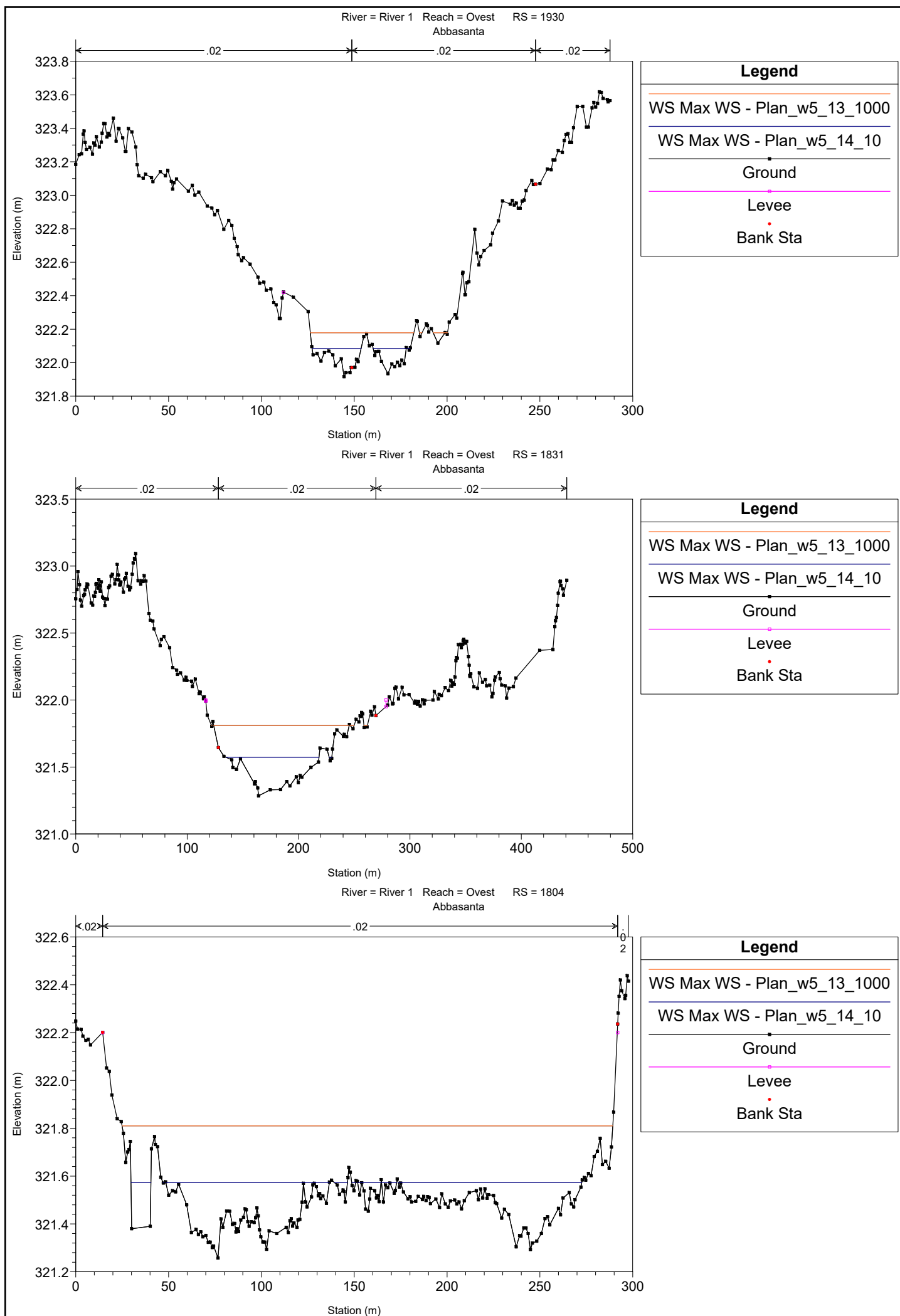
River = River 1 Reach = Nord
Abbasanta RS = 801



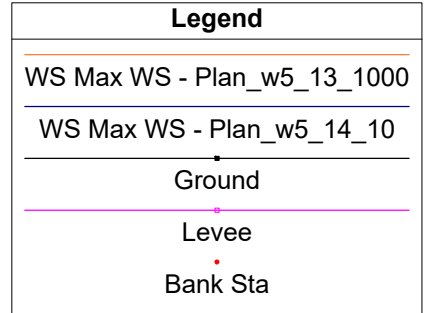
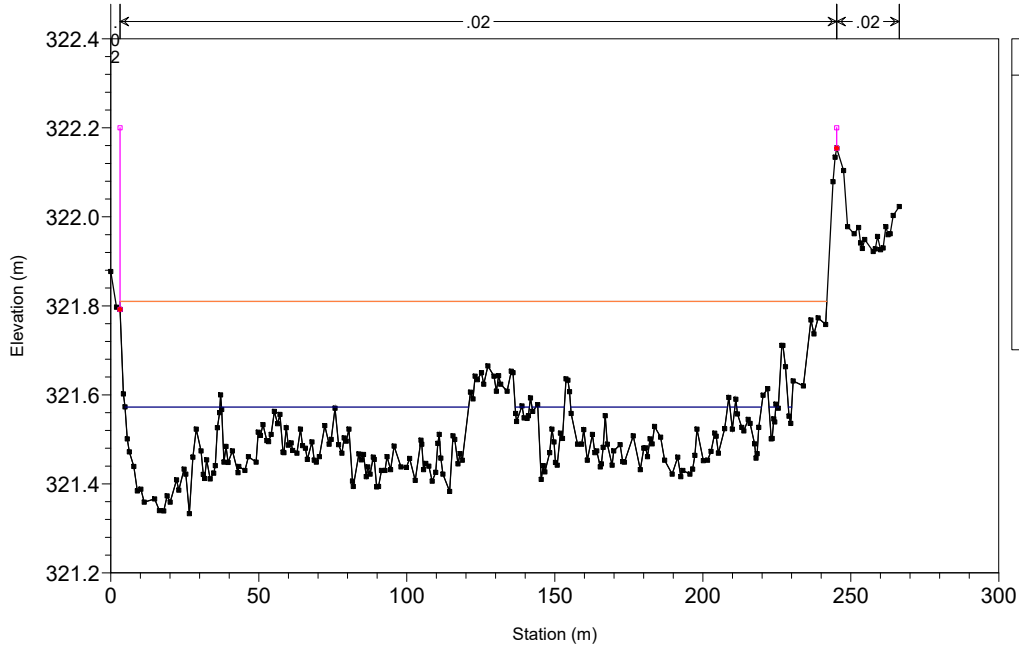
River = River 1 Reach = Nord
Abbasanta RS = 782



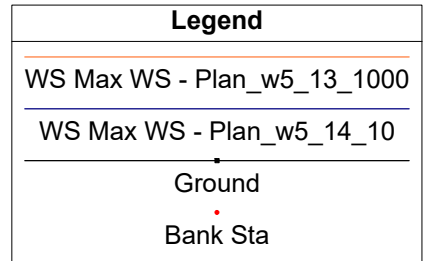
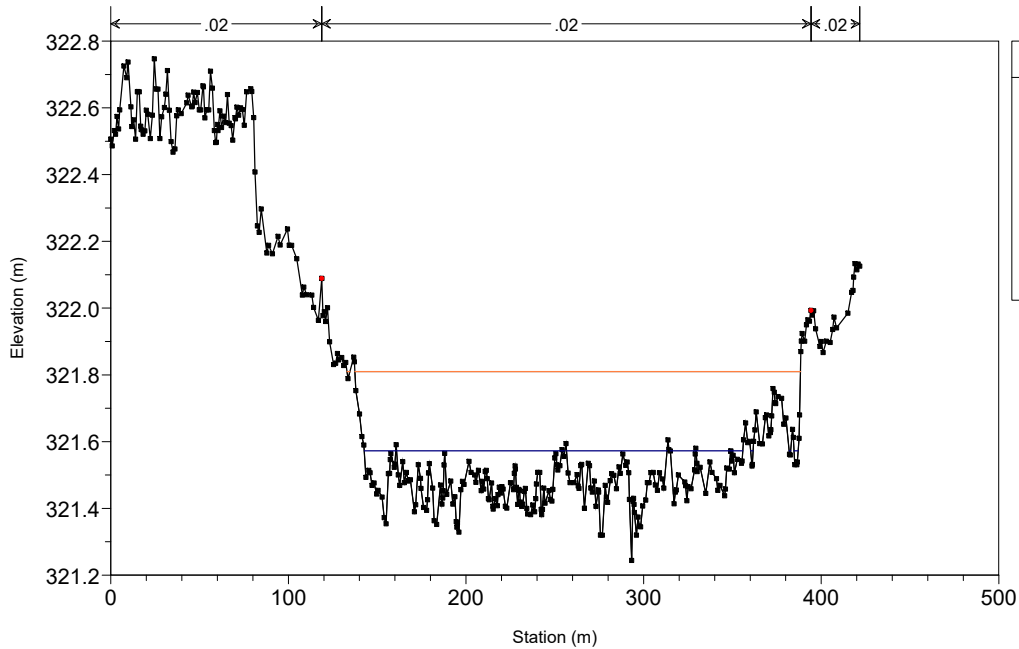




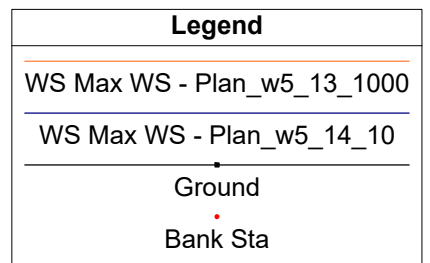
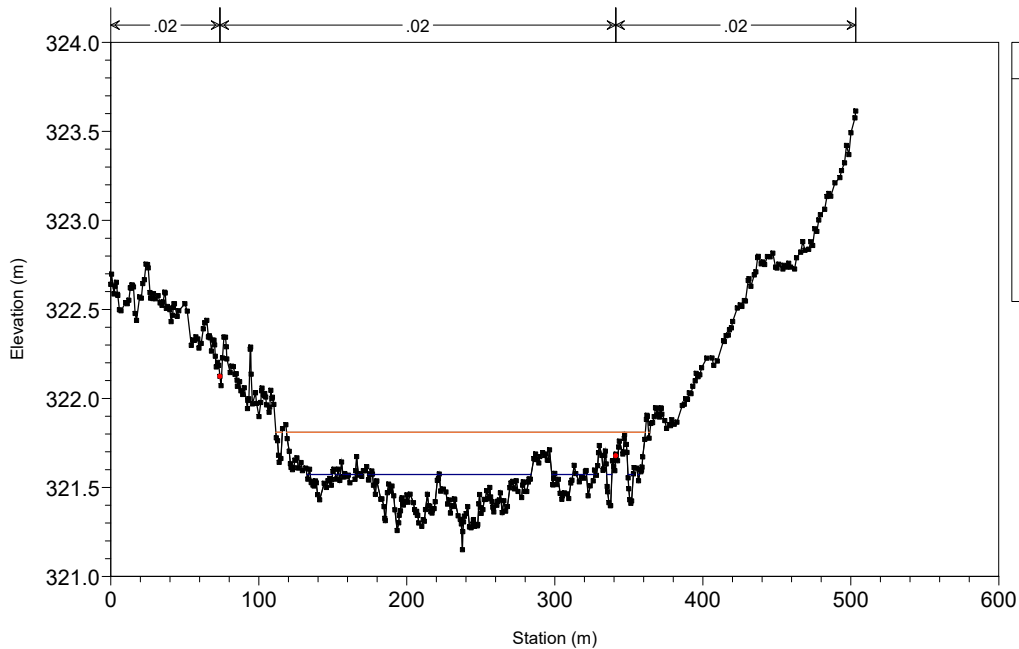
River = River 1 Reach = Ovest
Abbasanta RS = 1779

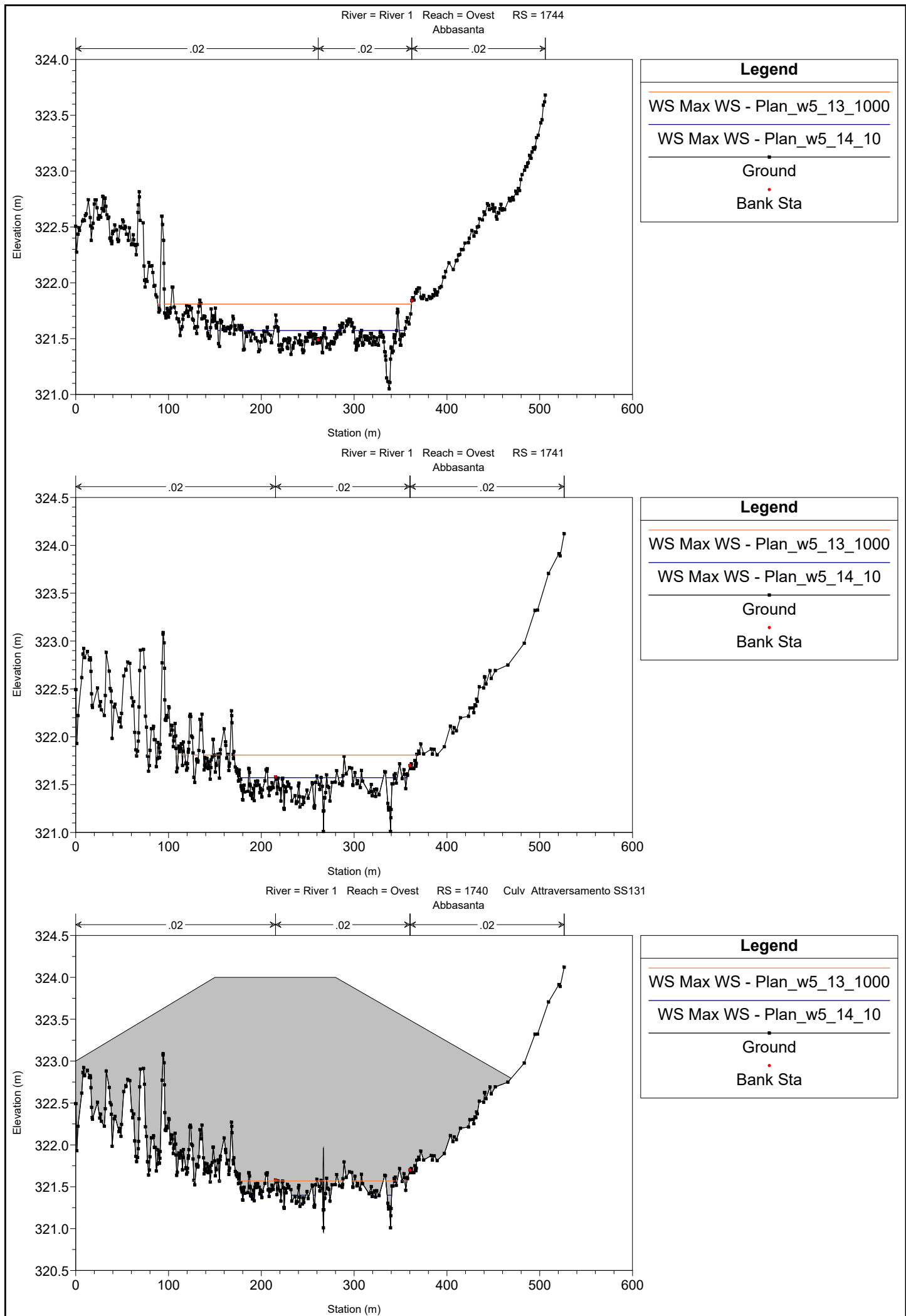


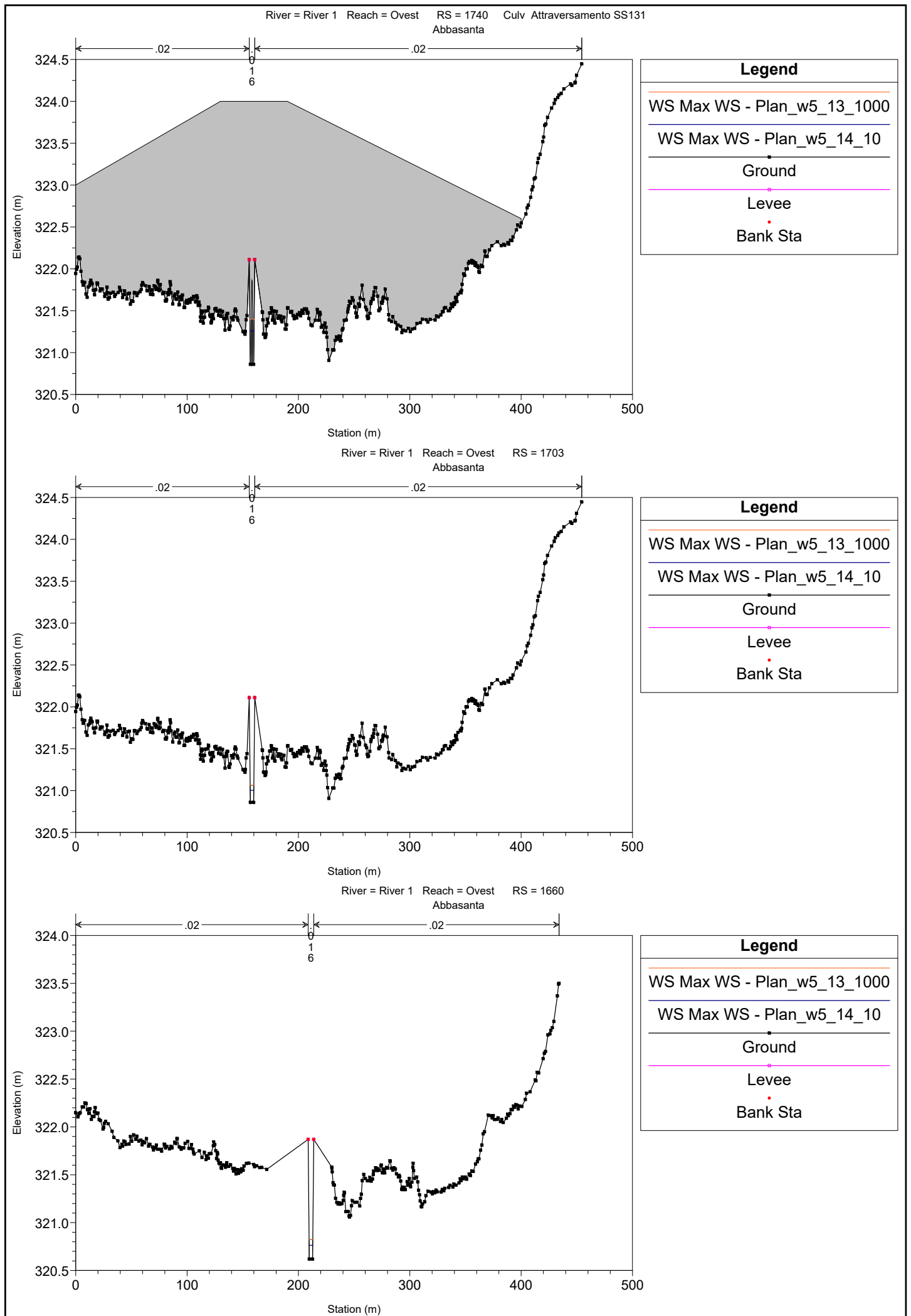
River = River 1 Reach = Ovest
Abbasanta RS = 1758

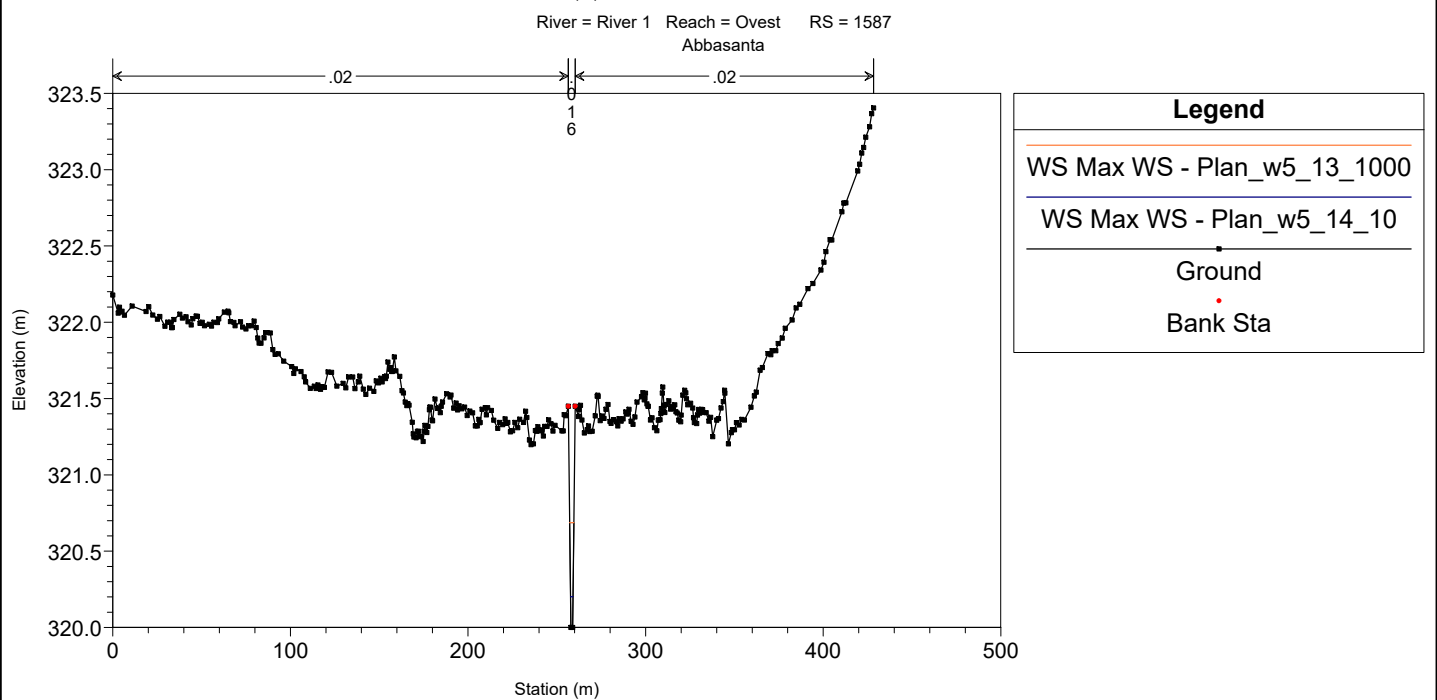
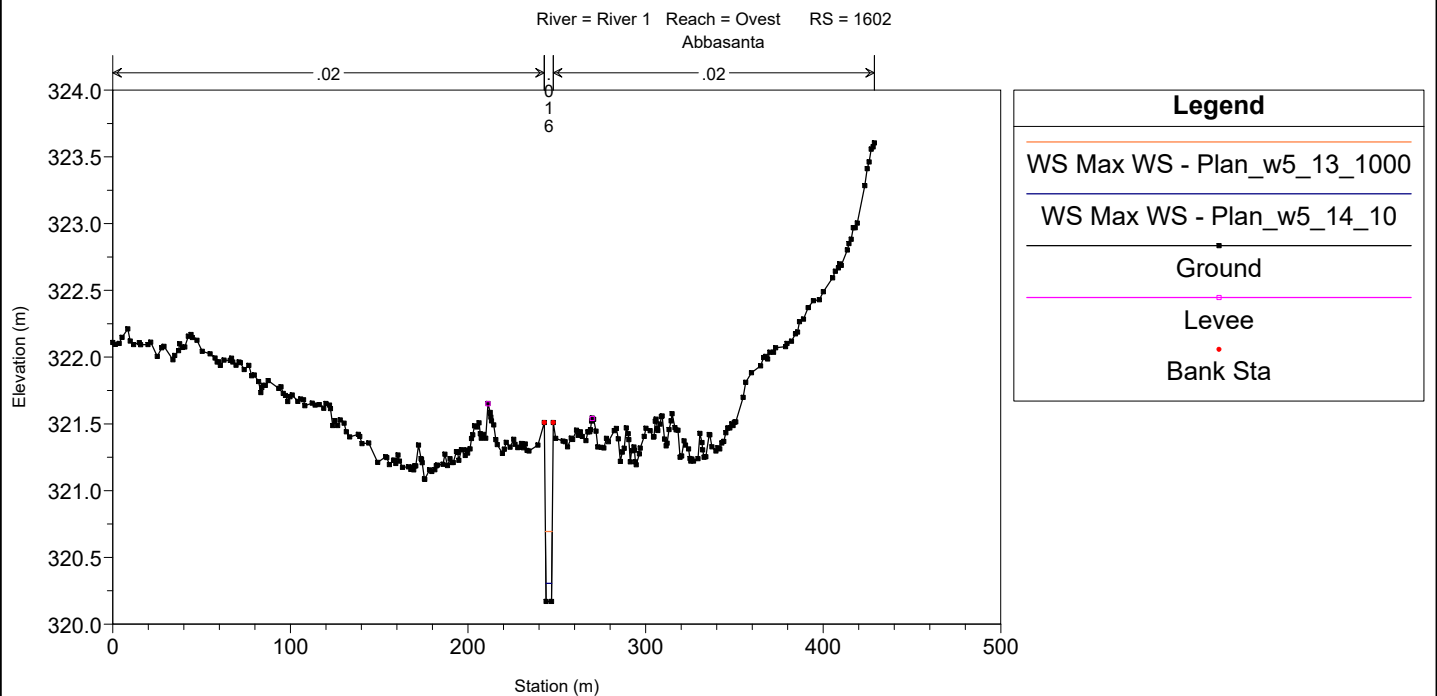
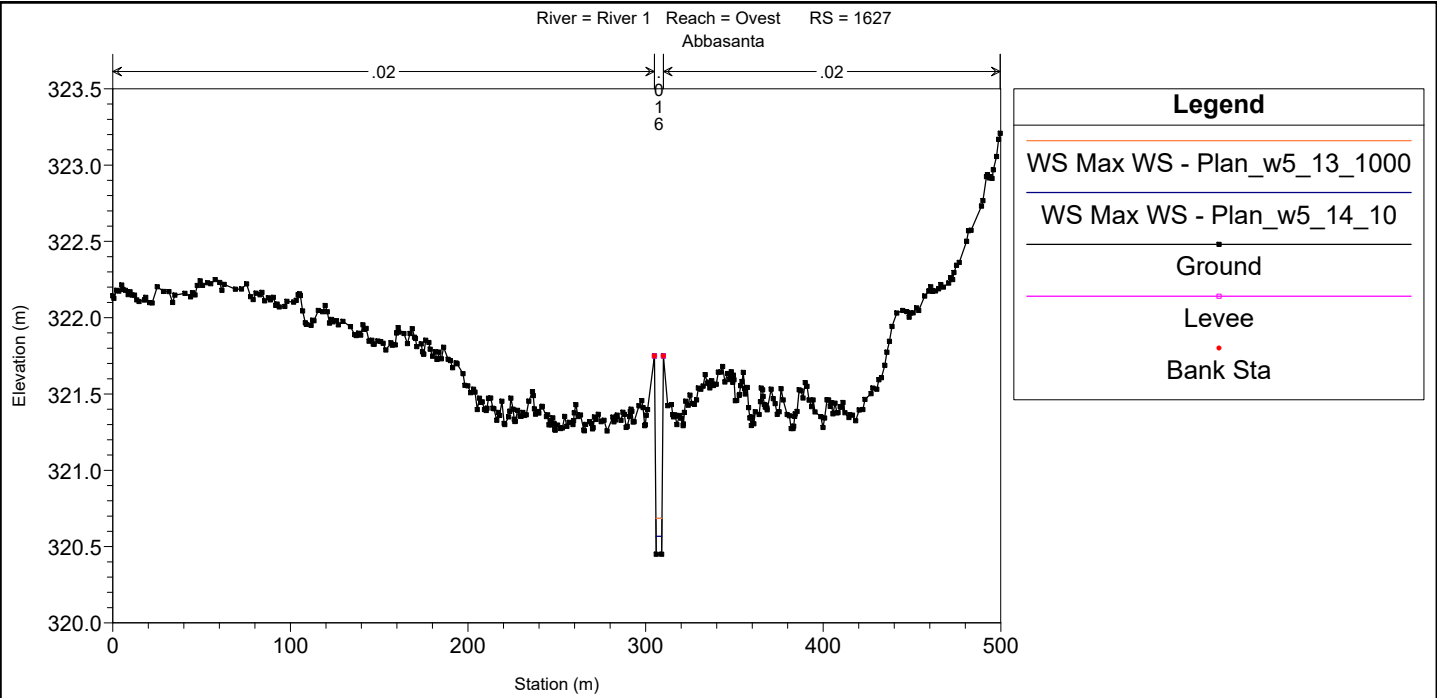


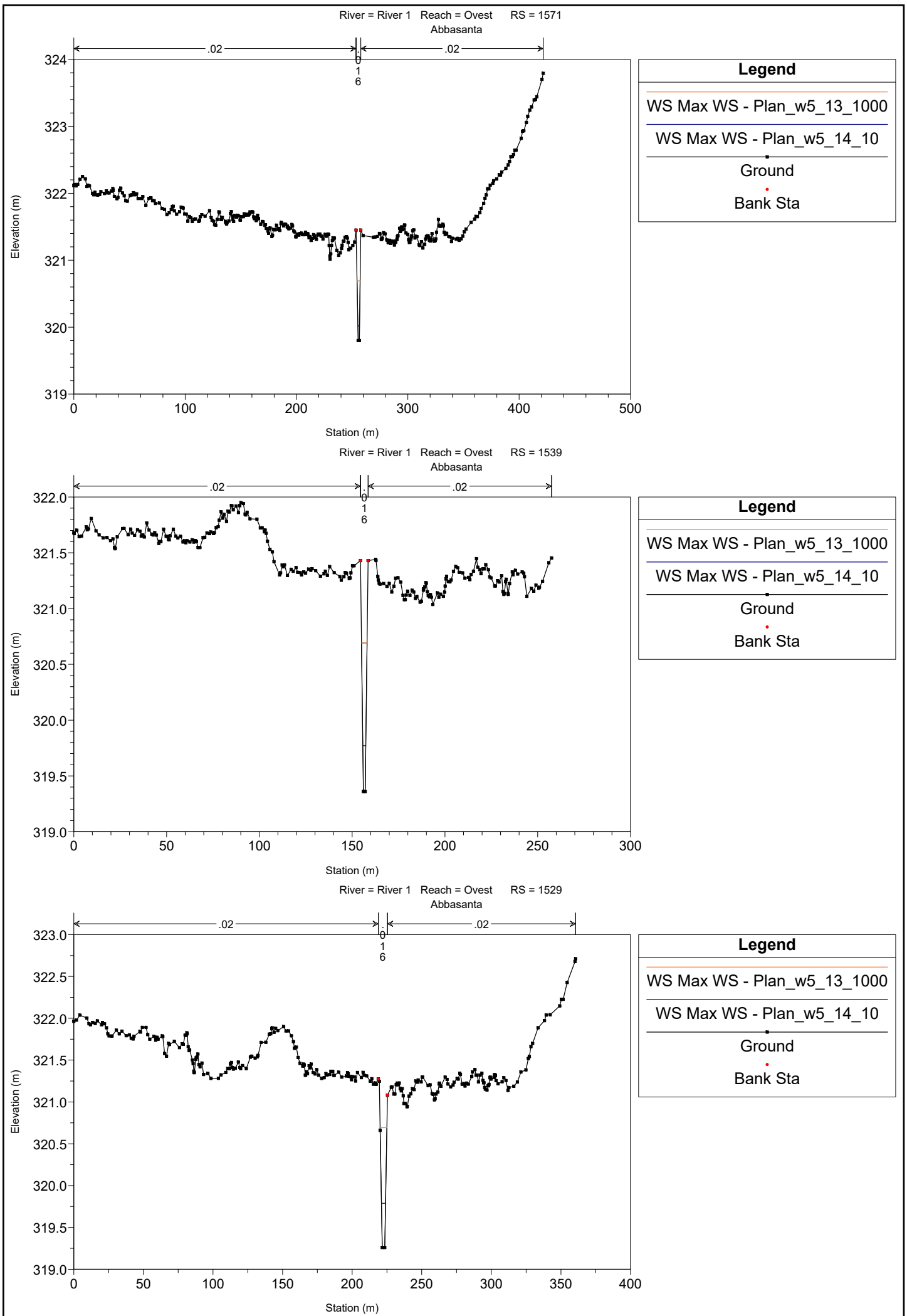
River = River 1 Reach = Ovest
Abbasanta RS = 1748

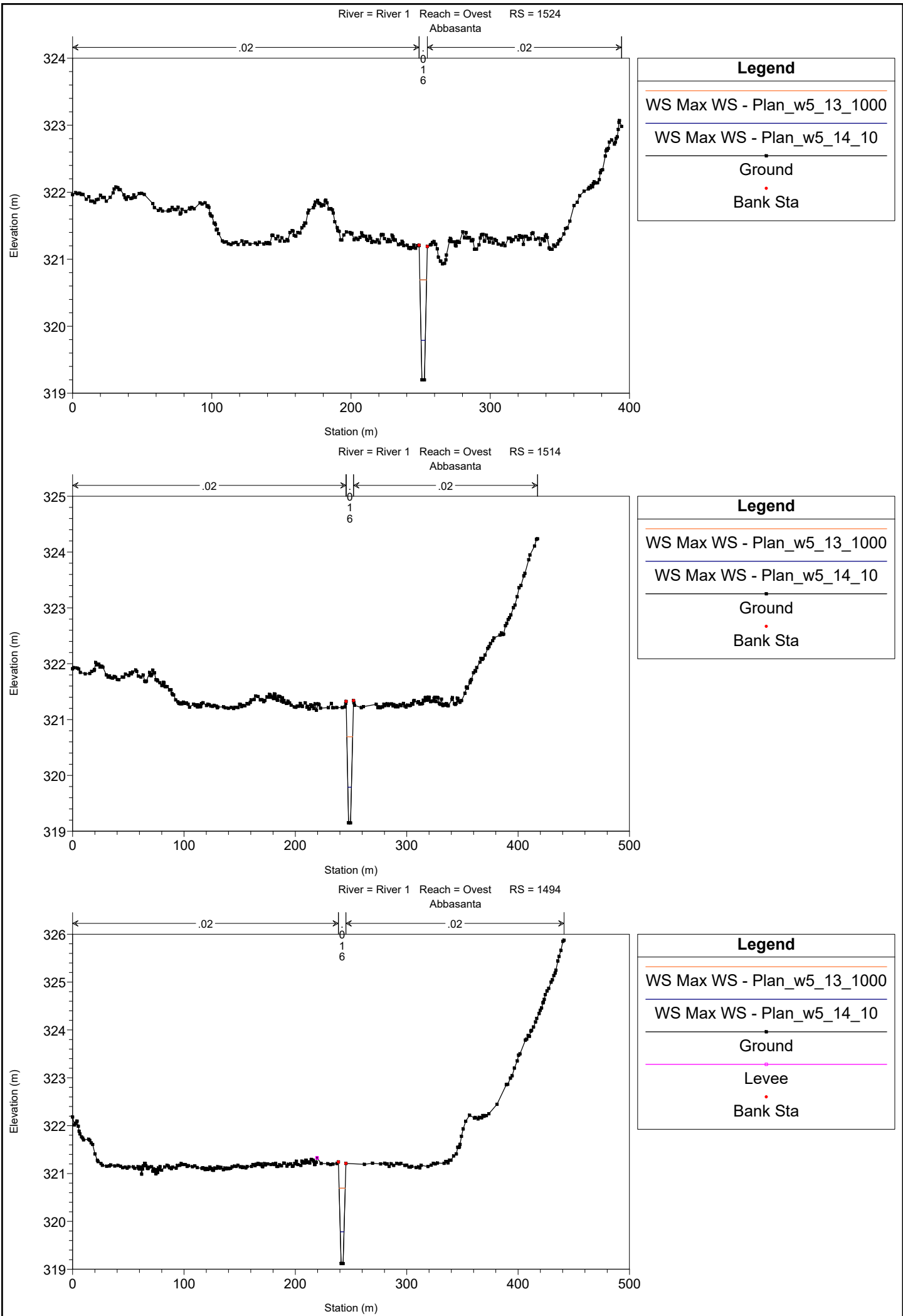


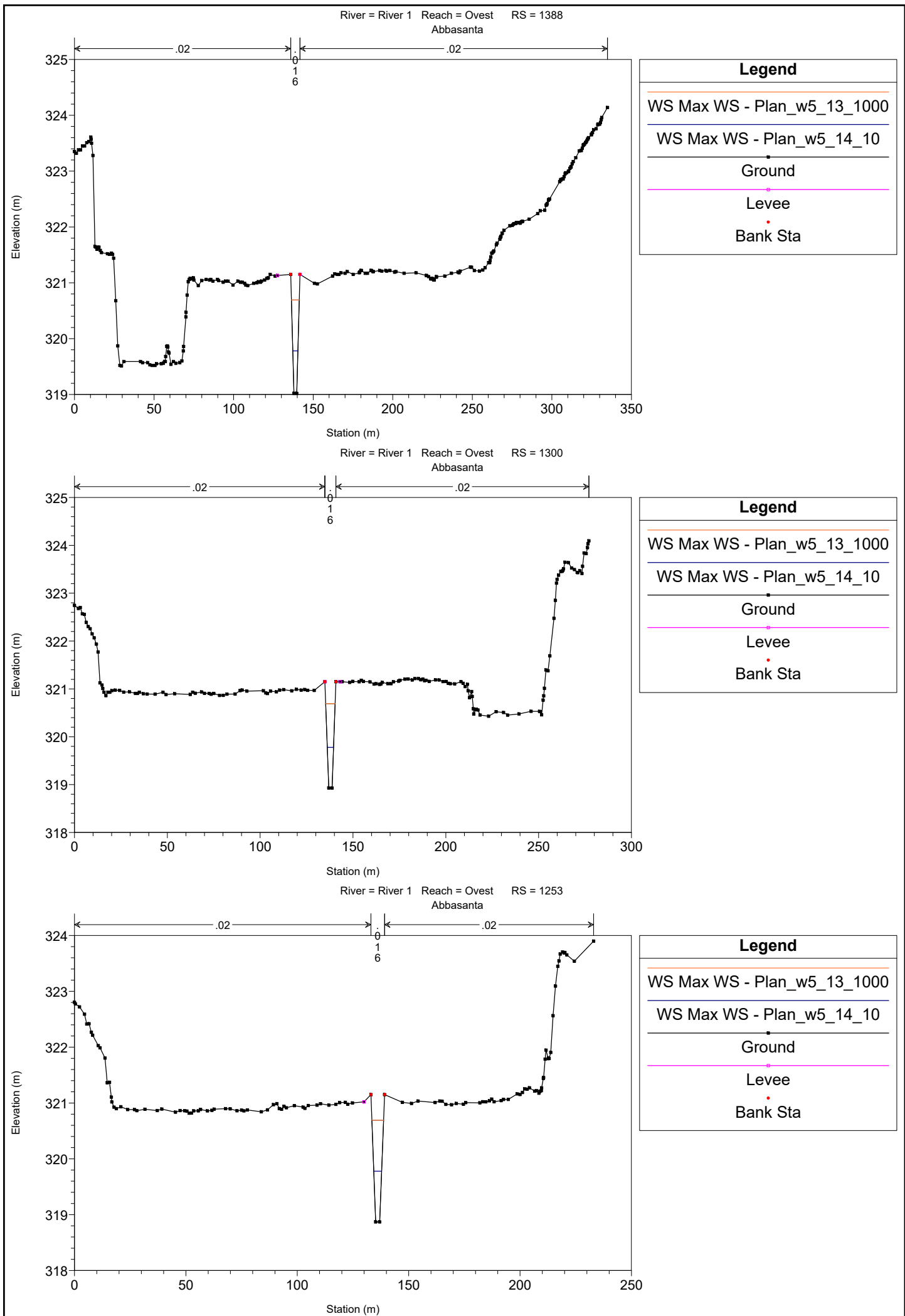


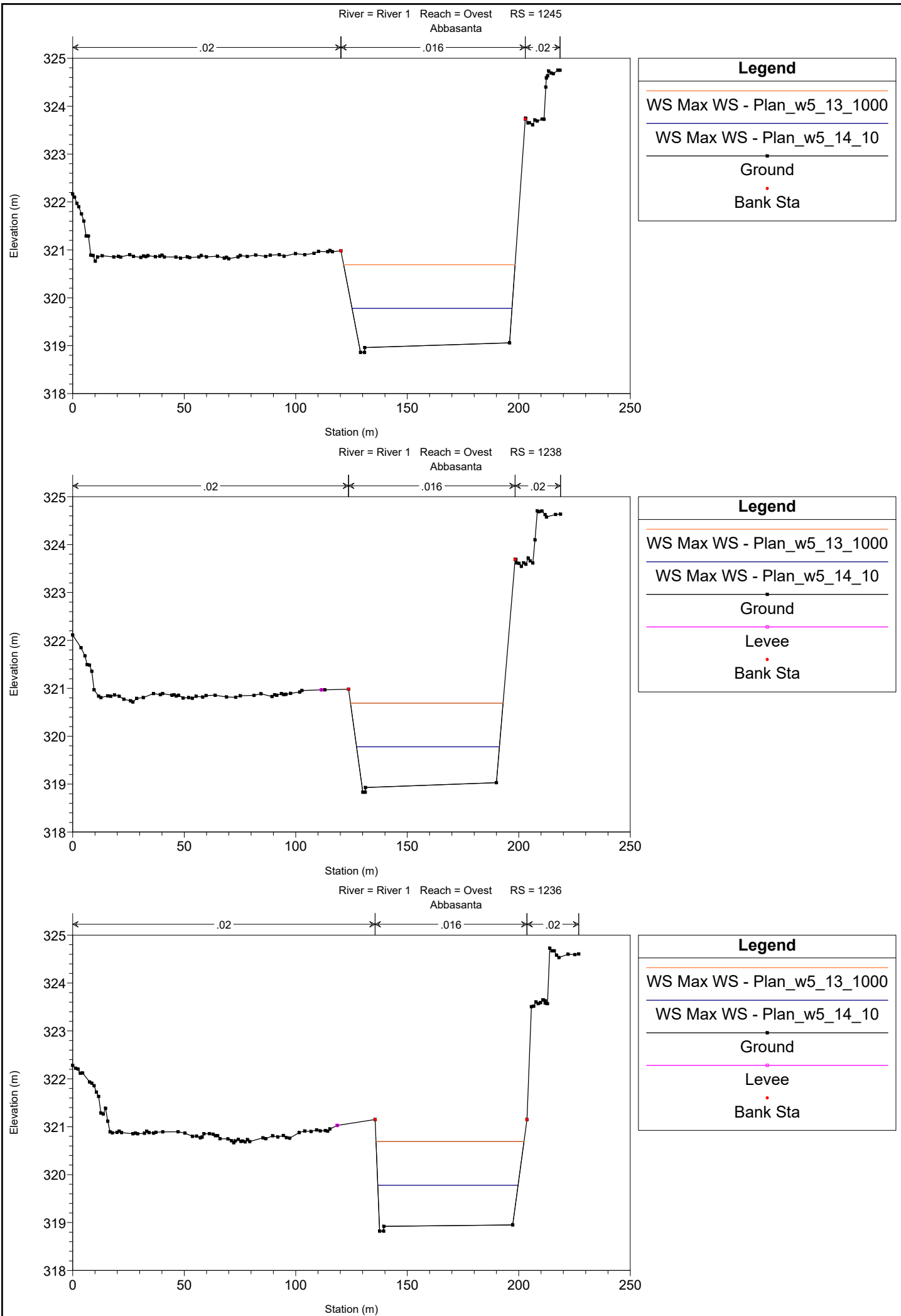


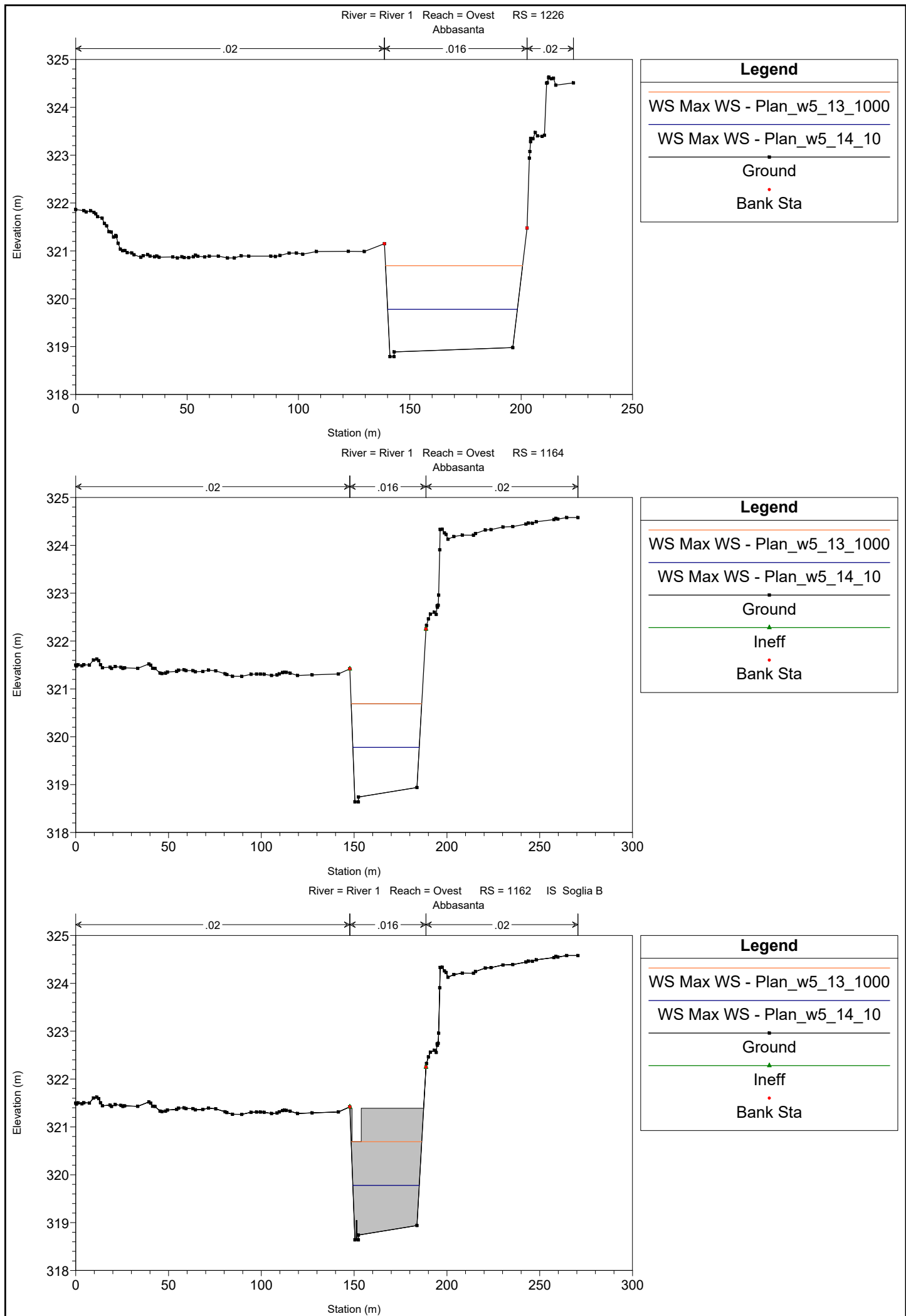


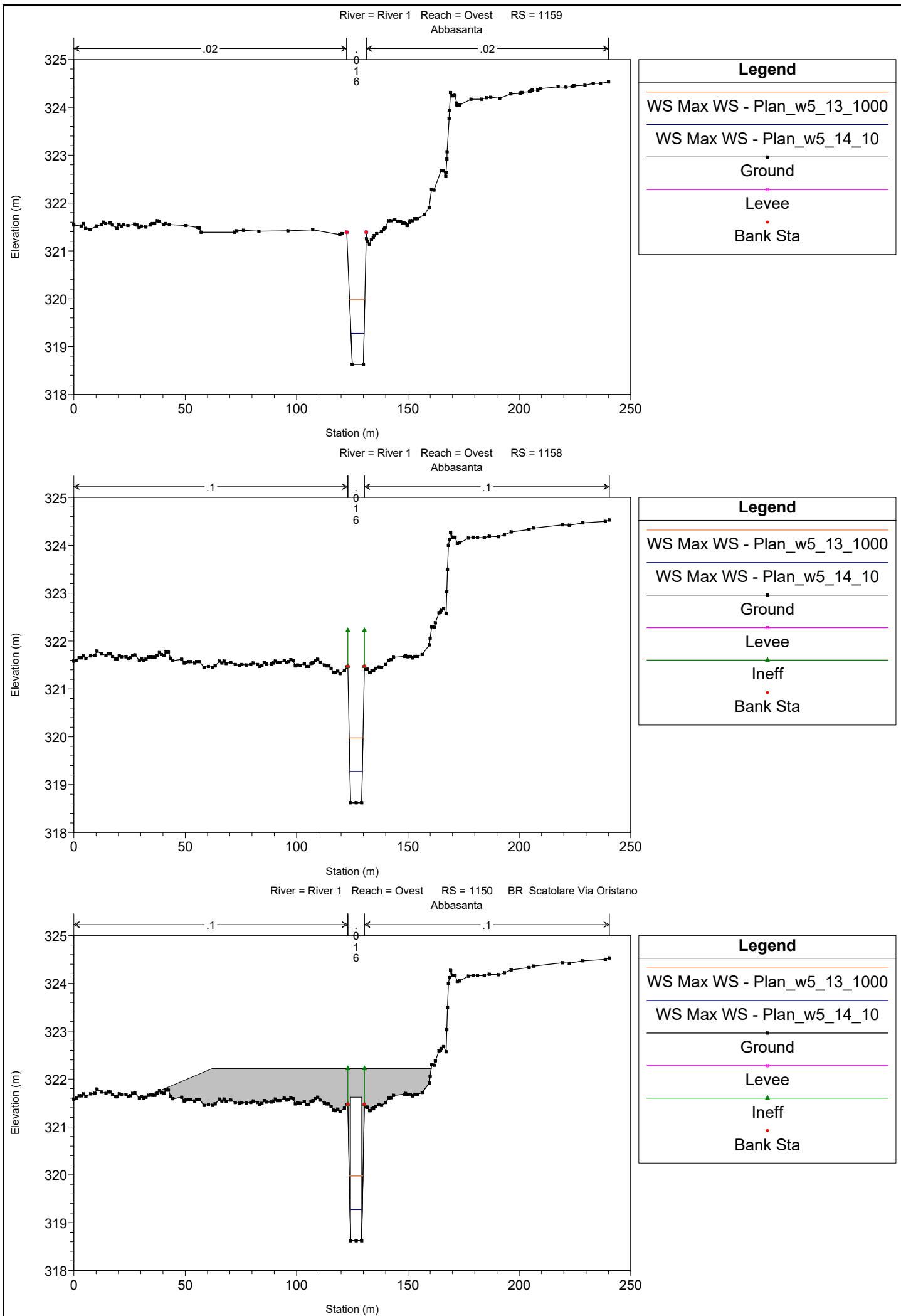


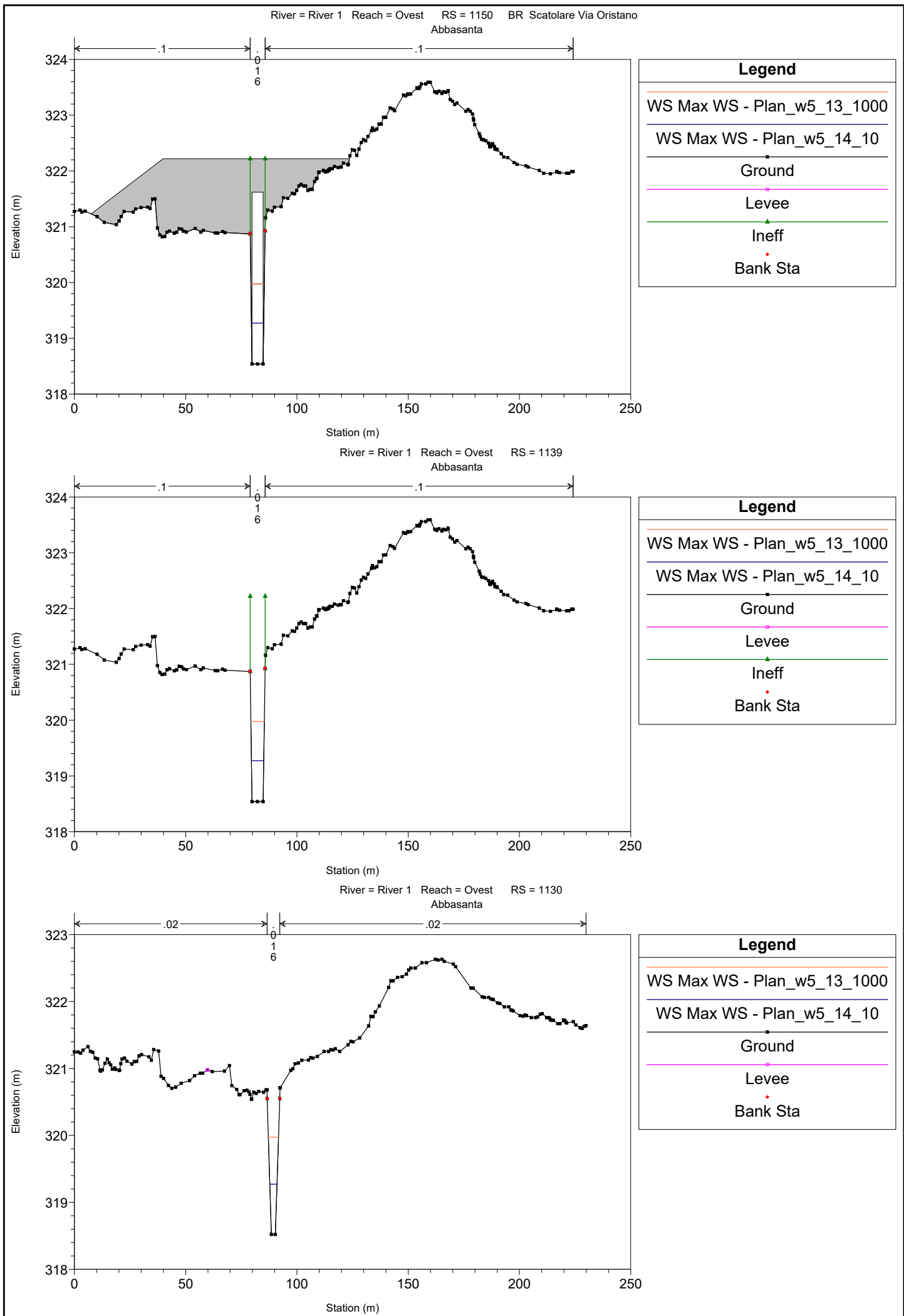


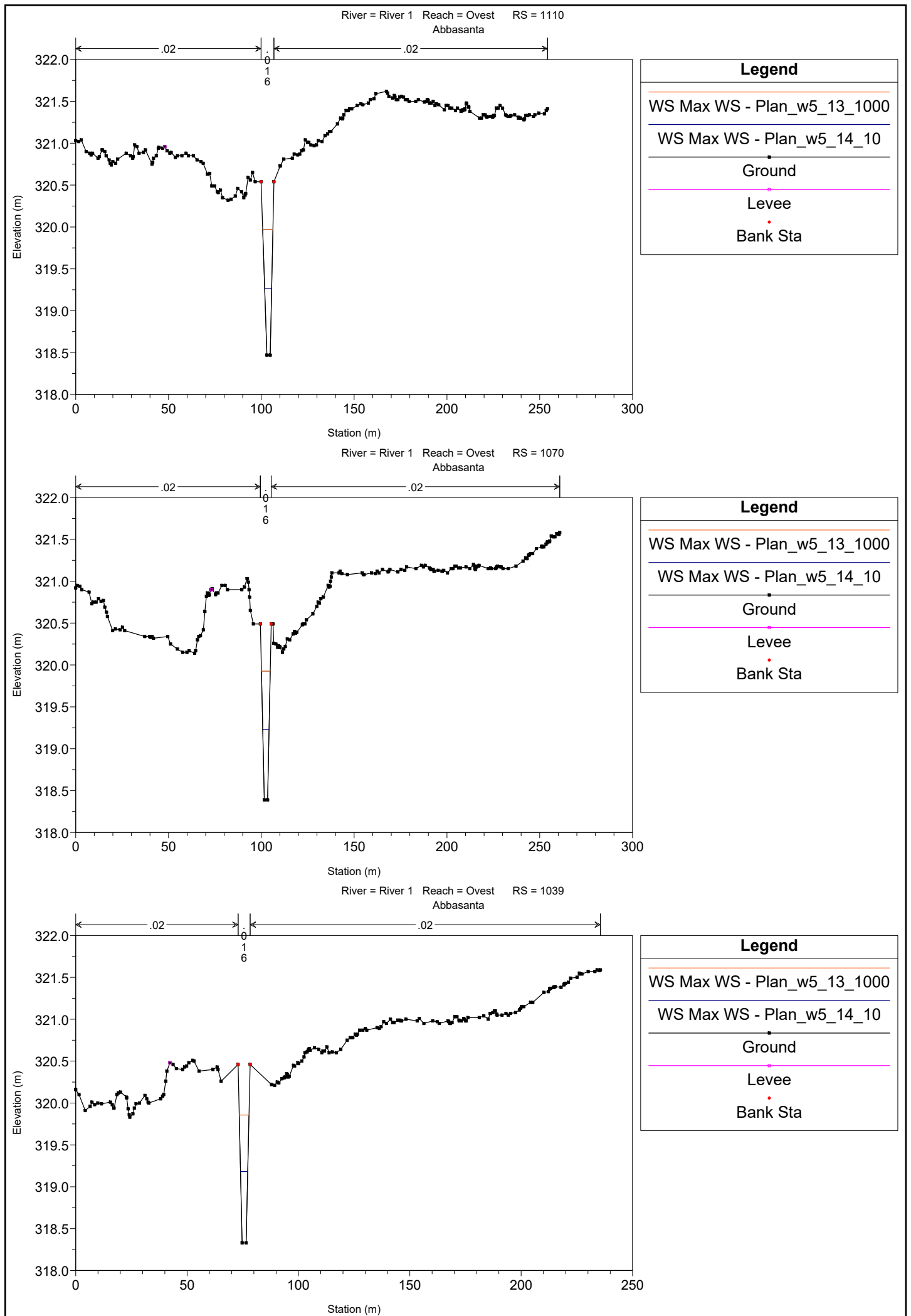


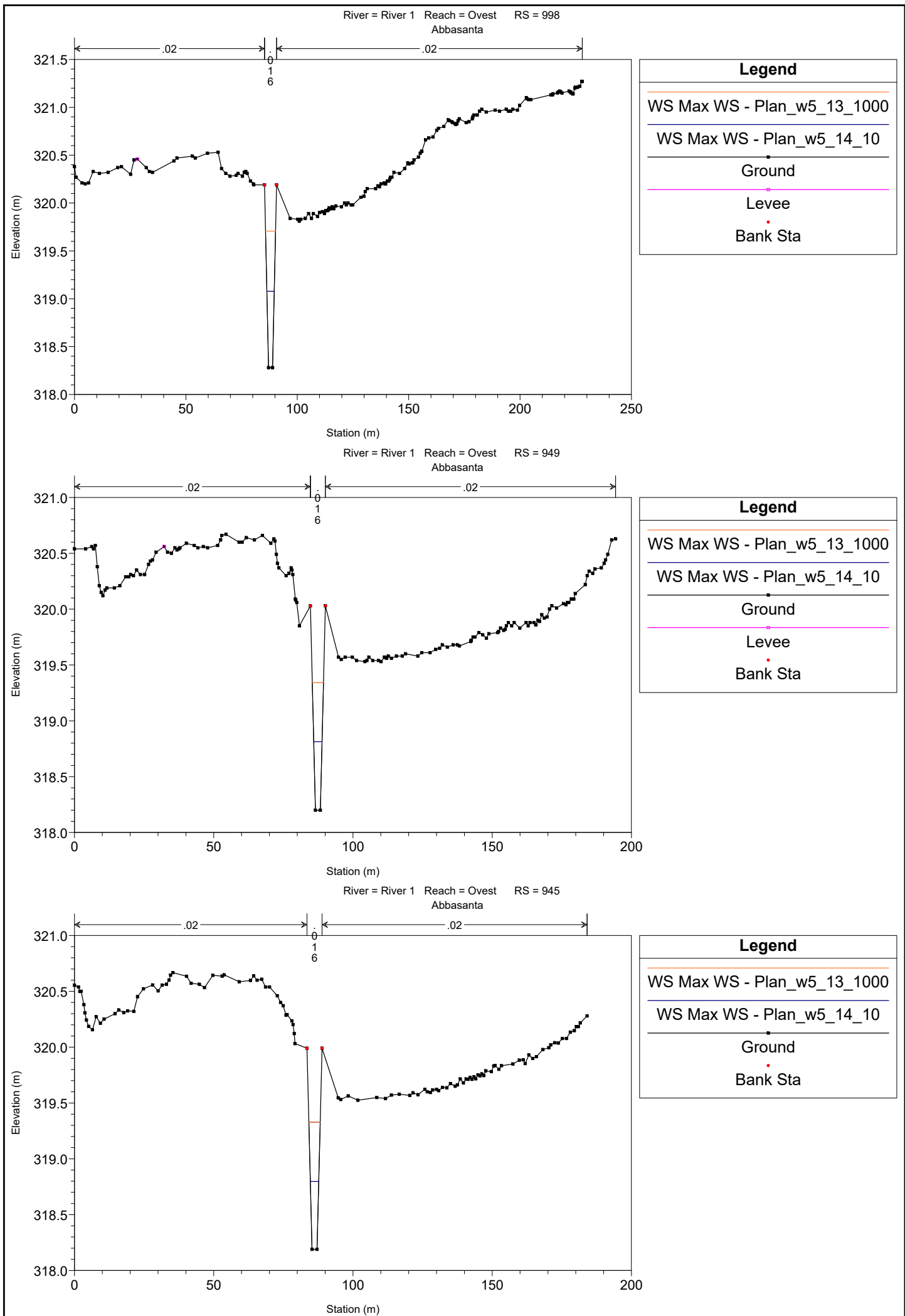


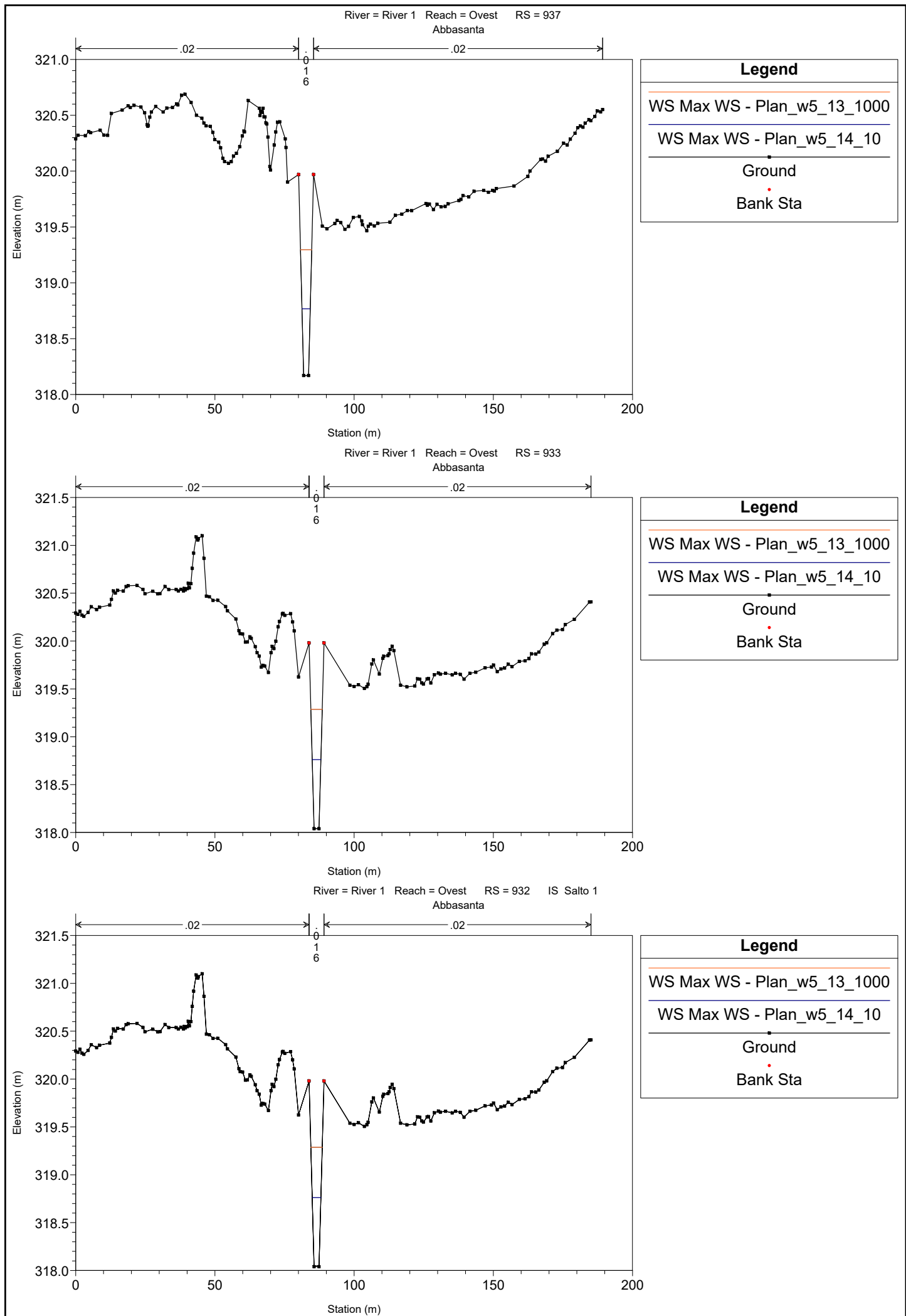


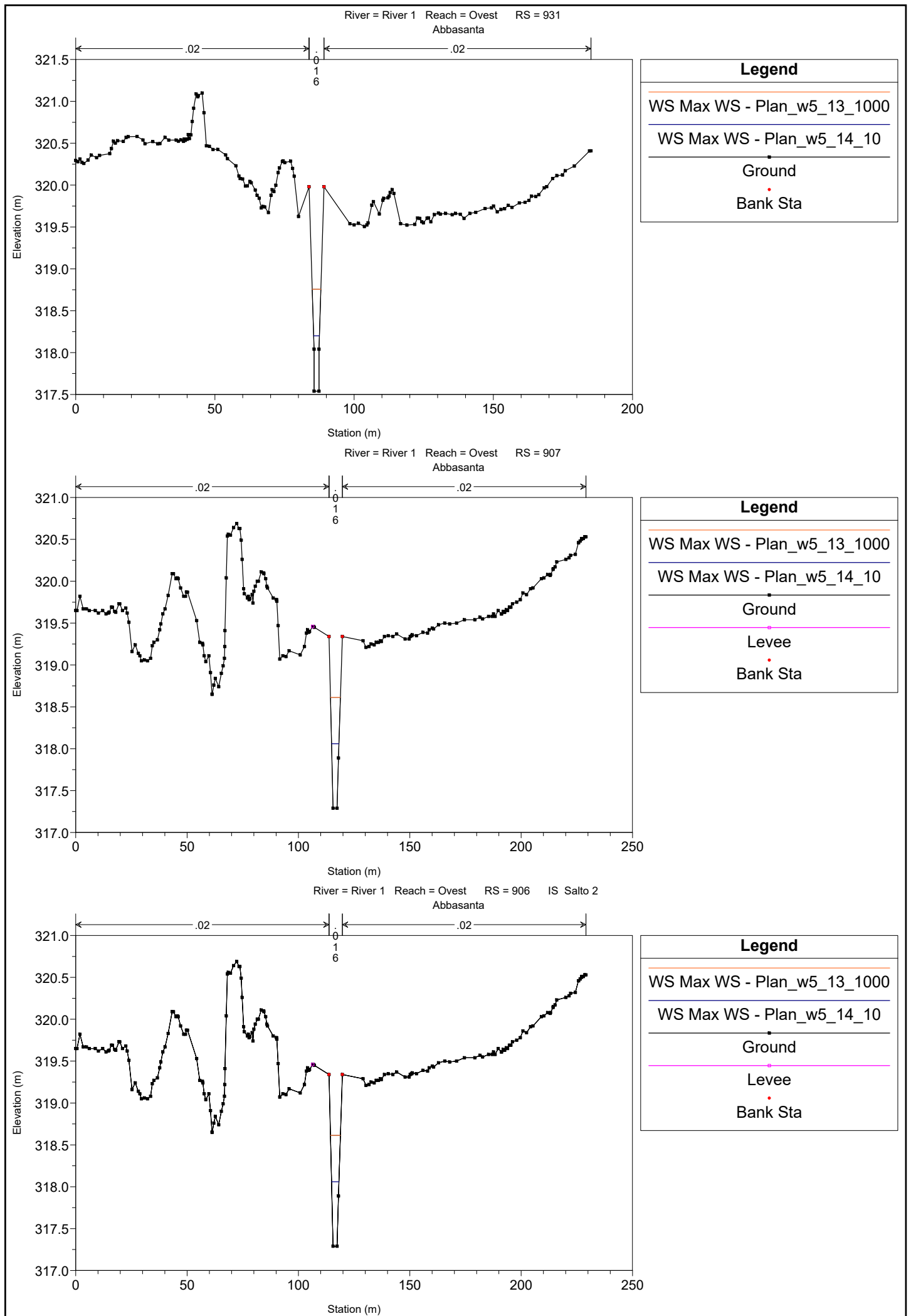


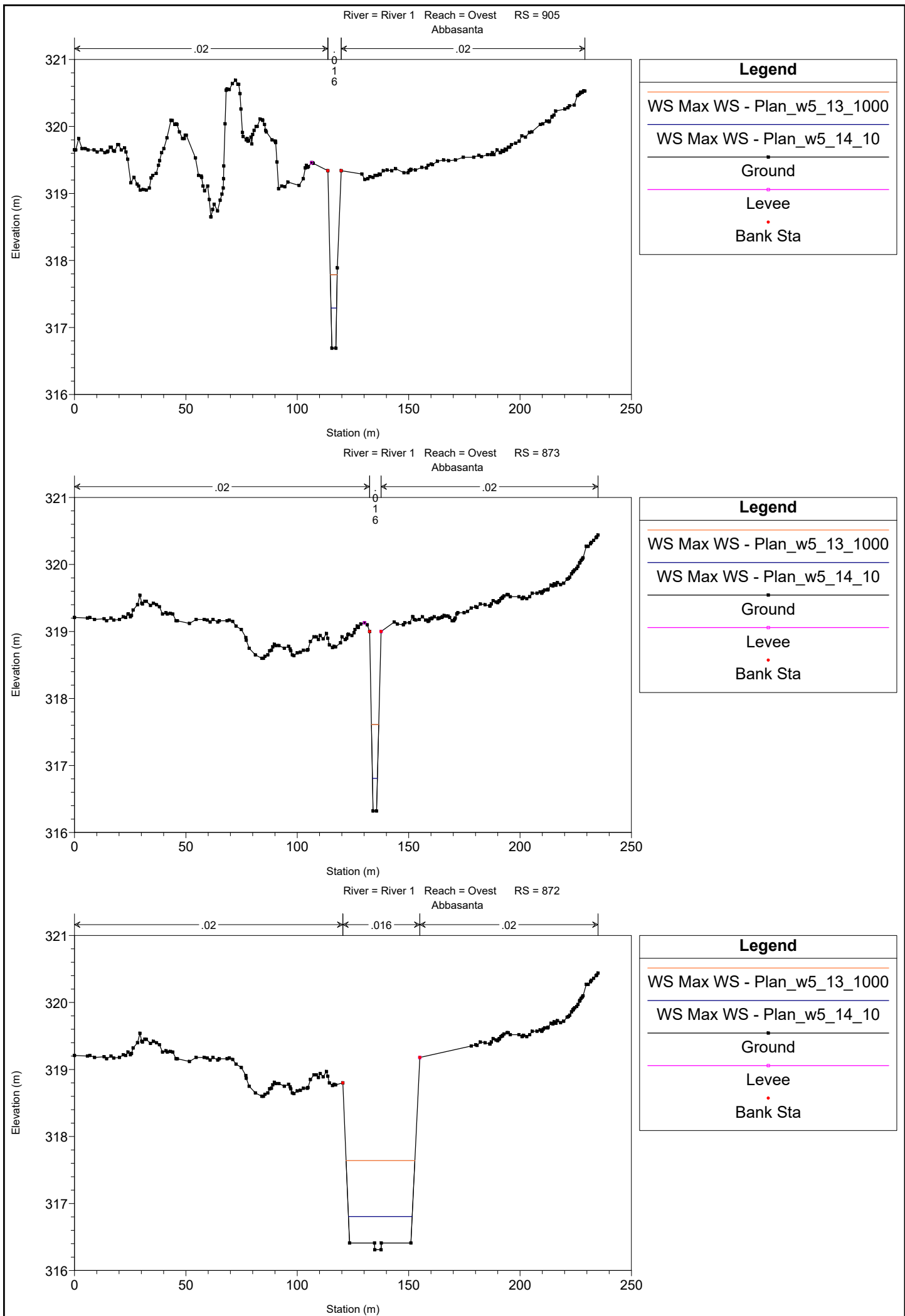


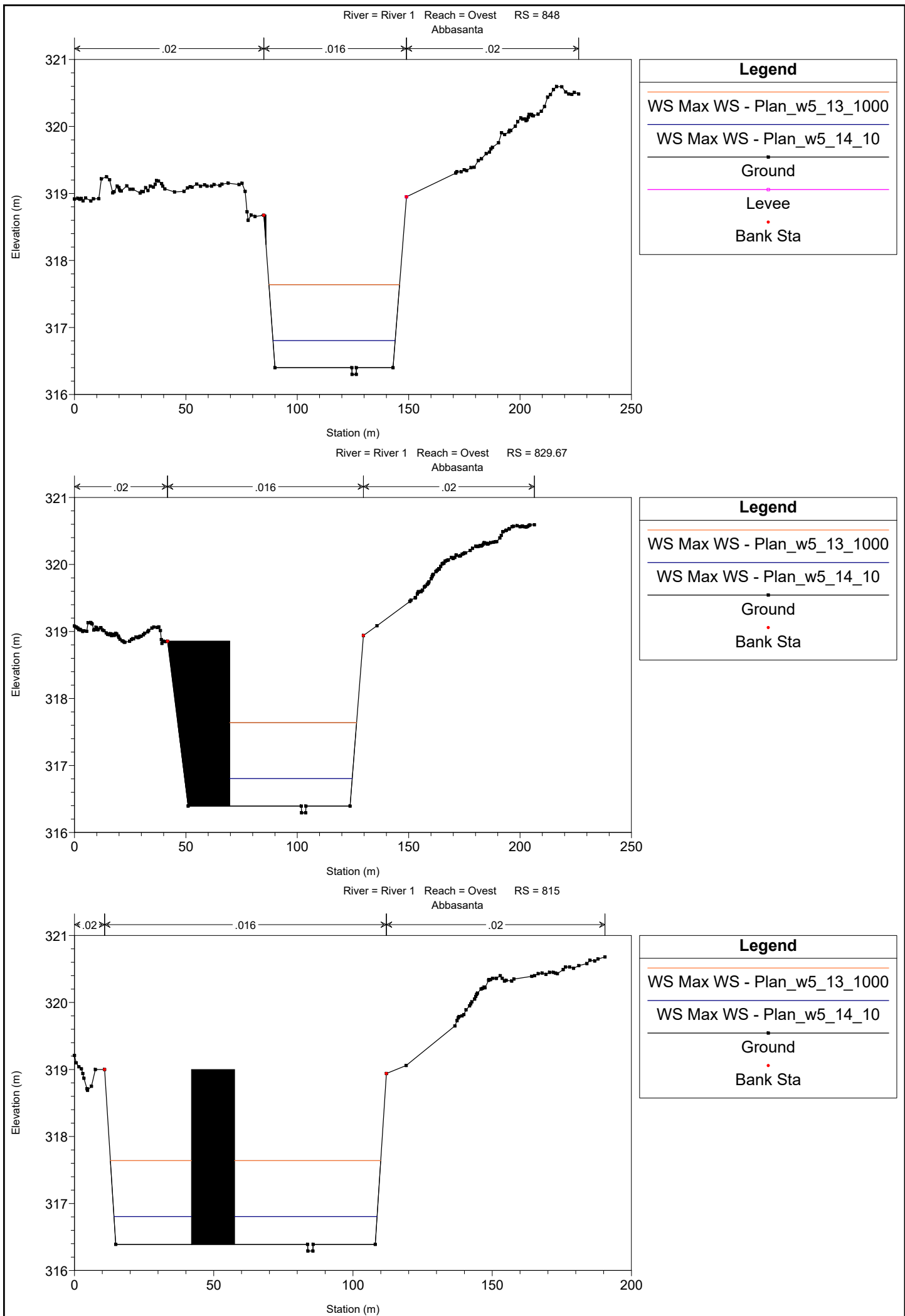


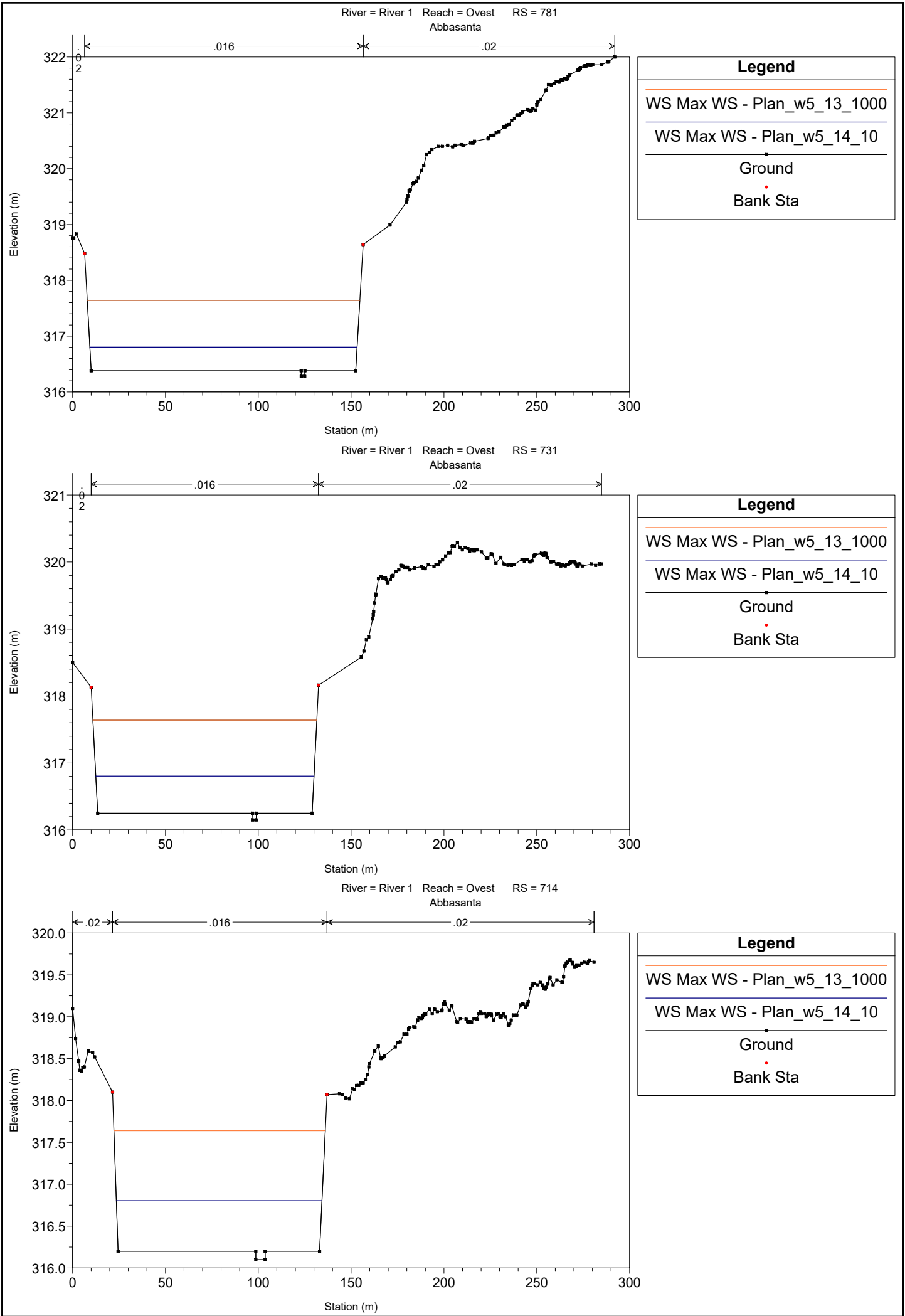


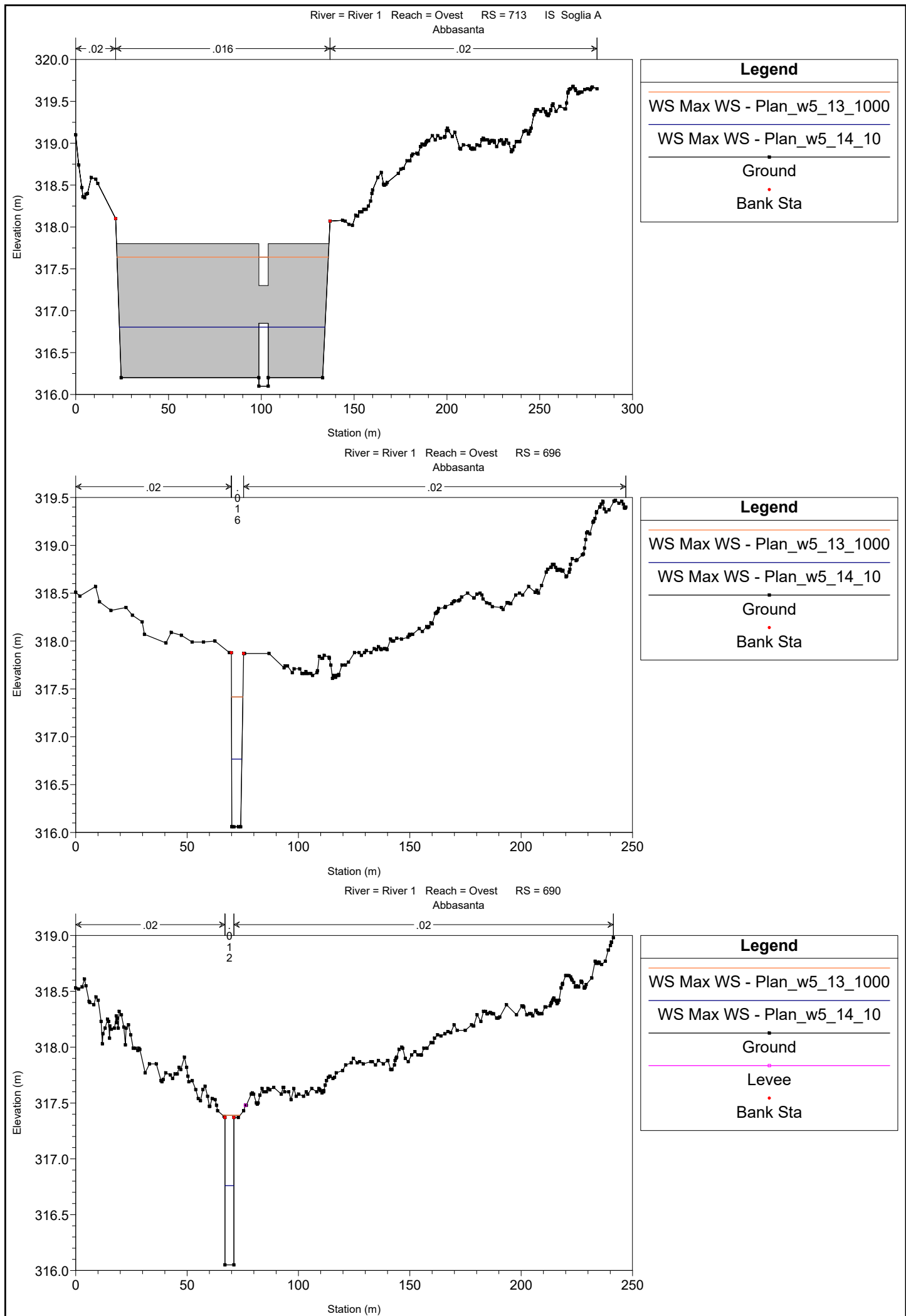


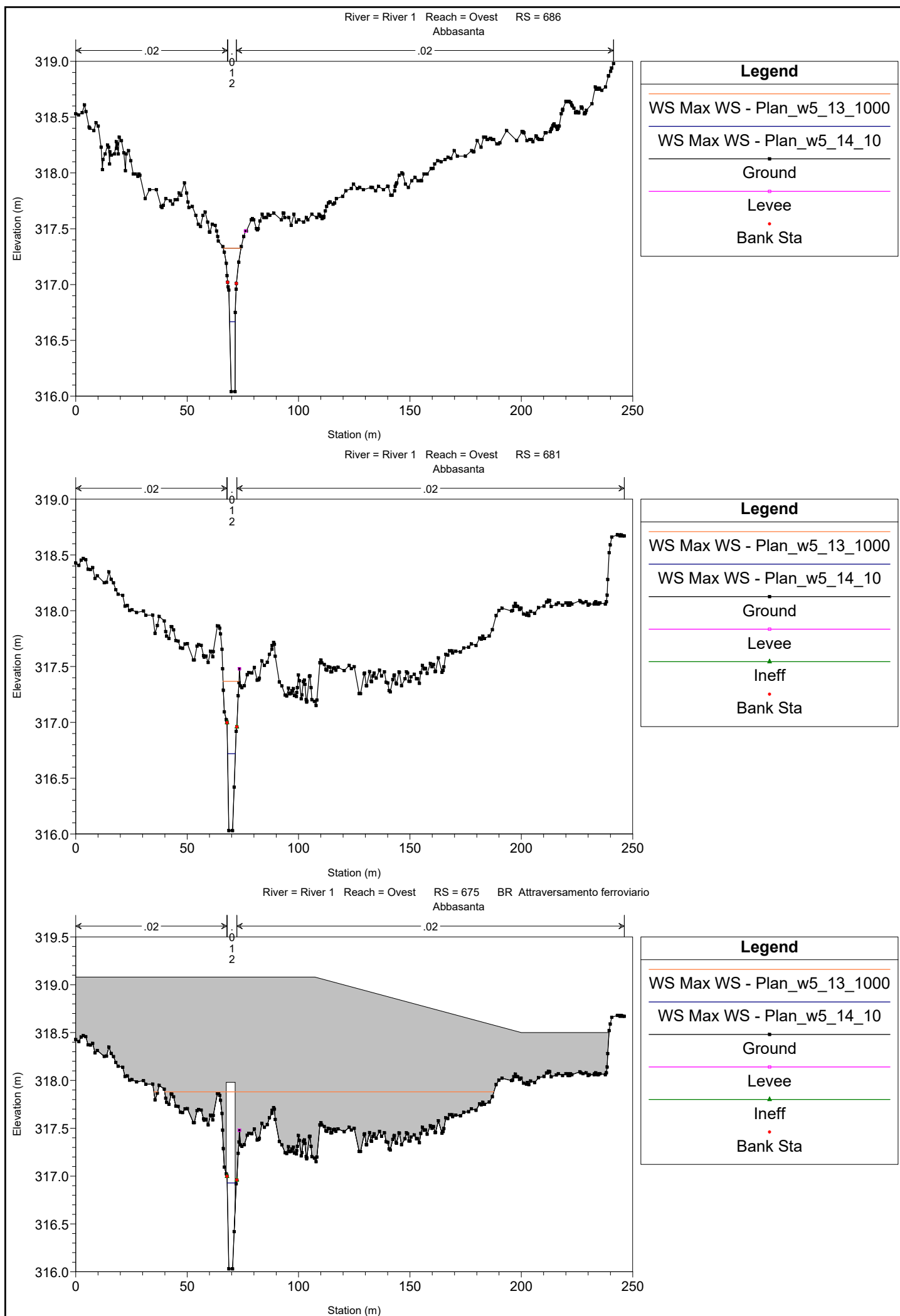


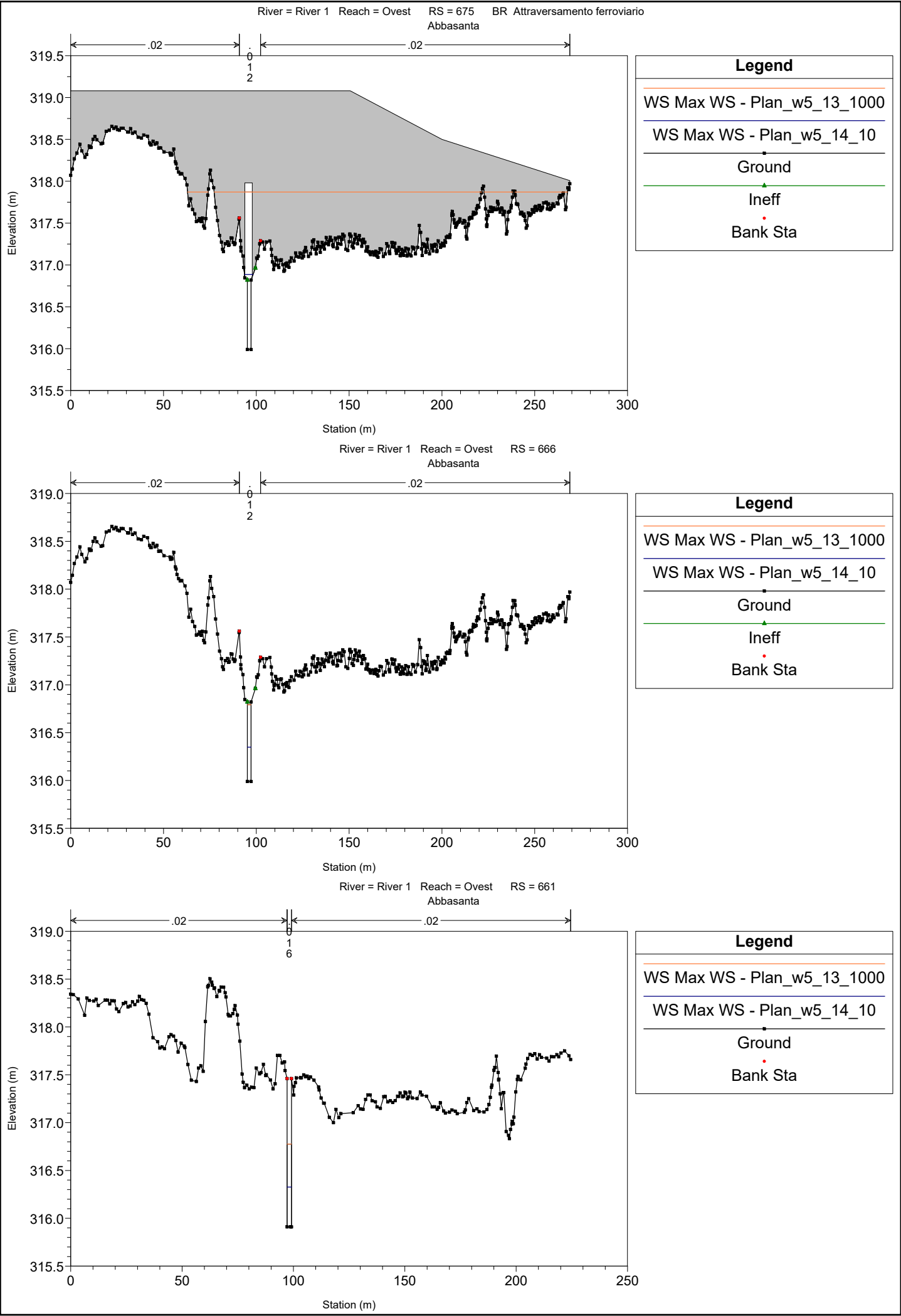


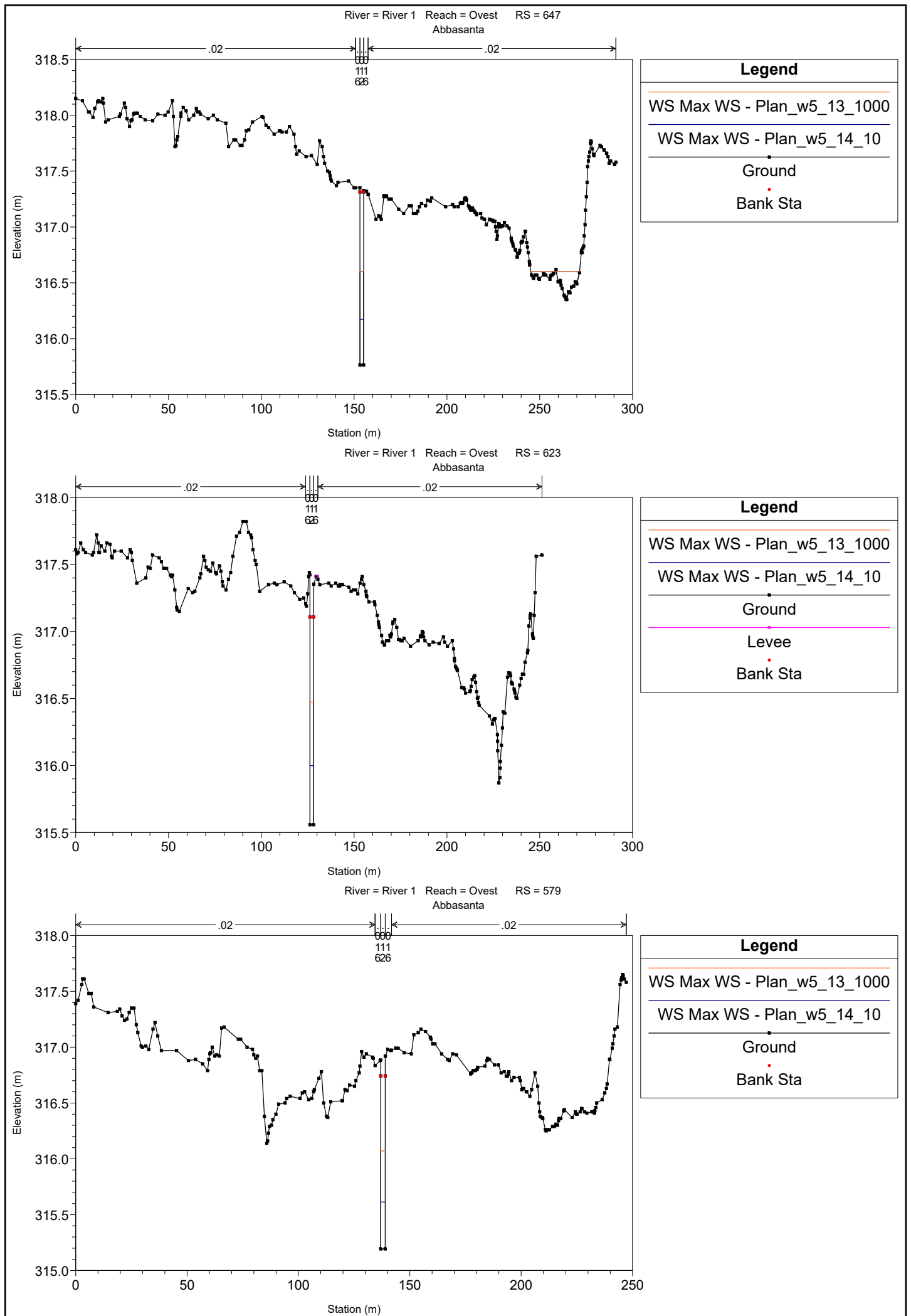


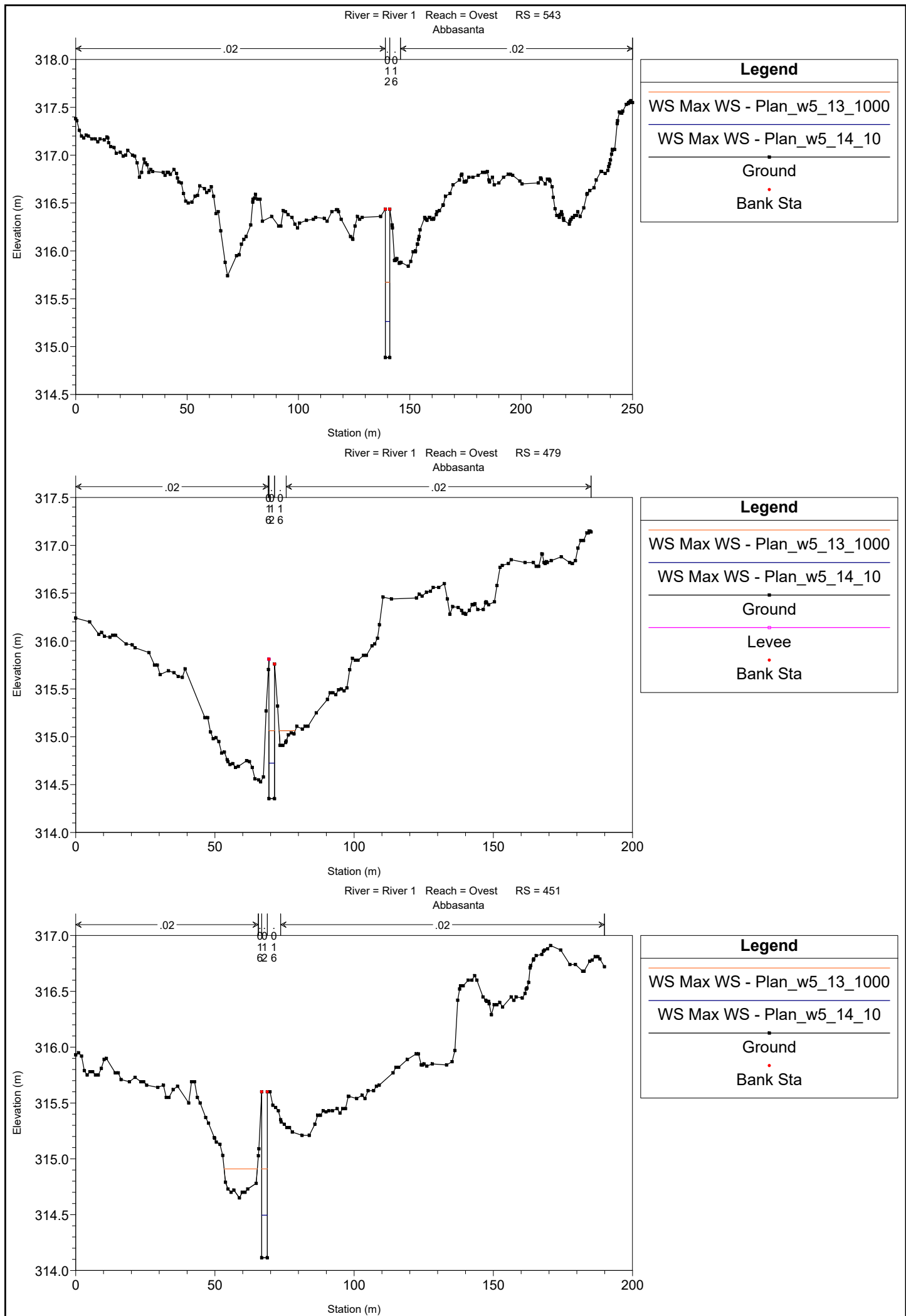


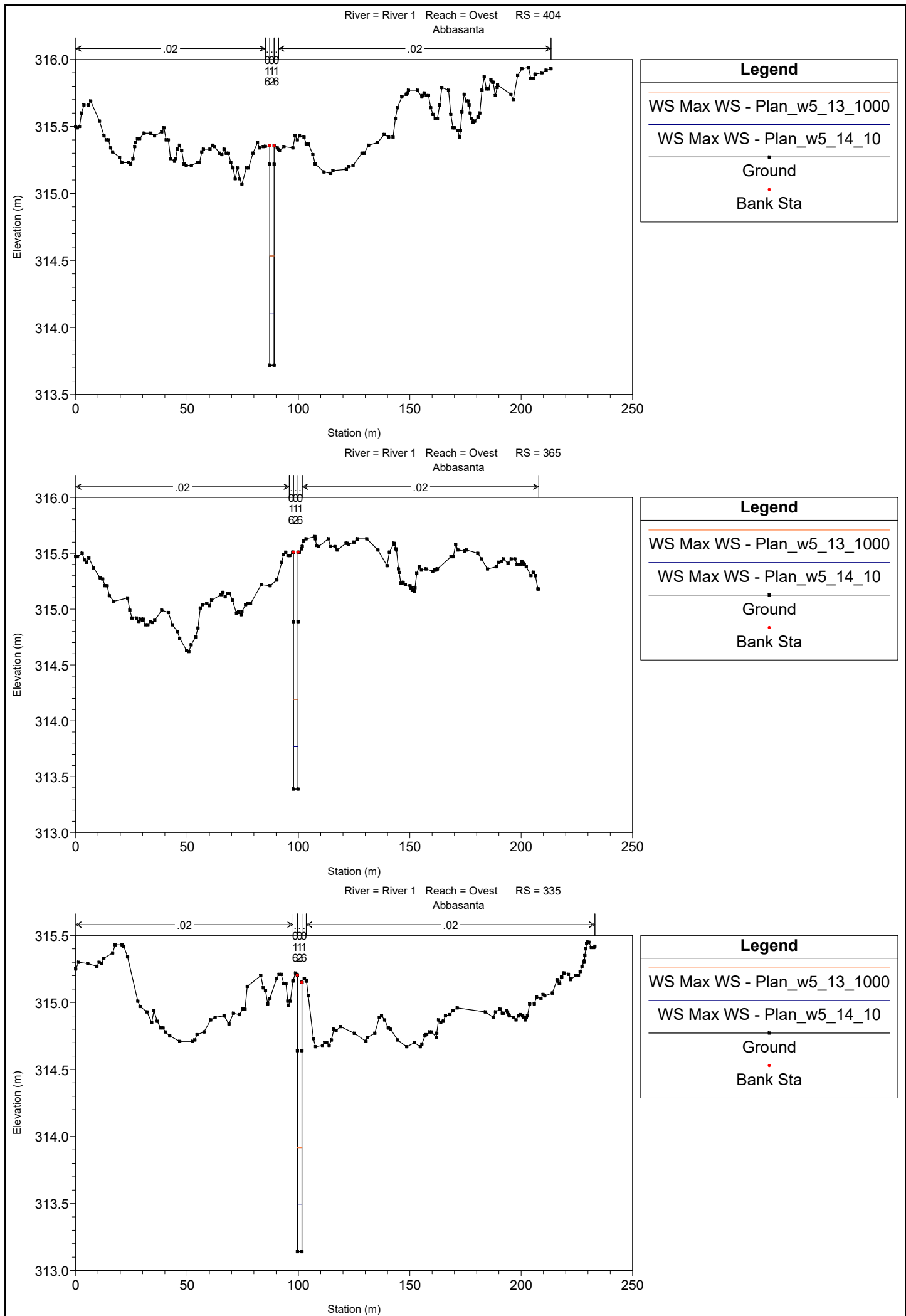


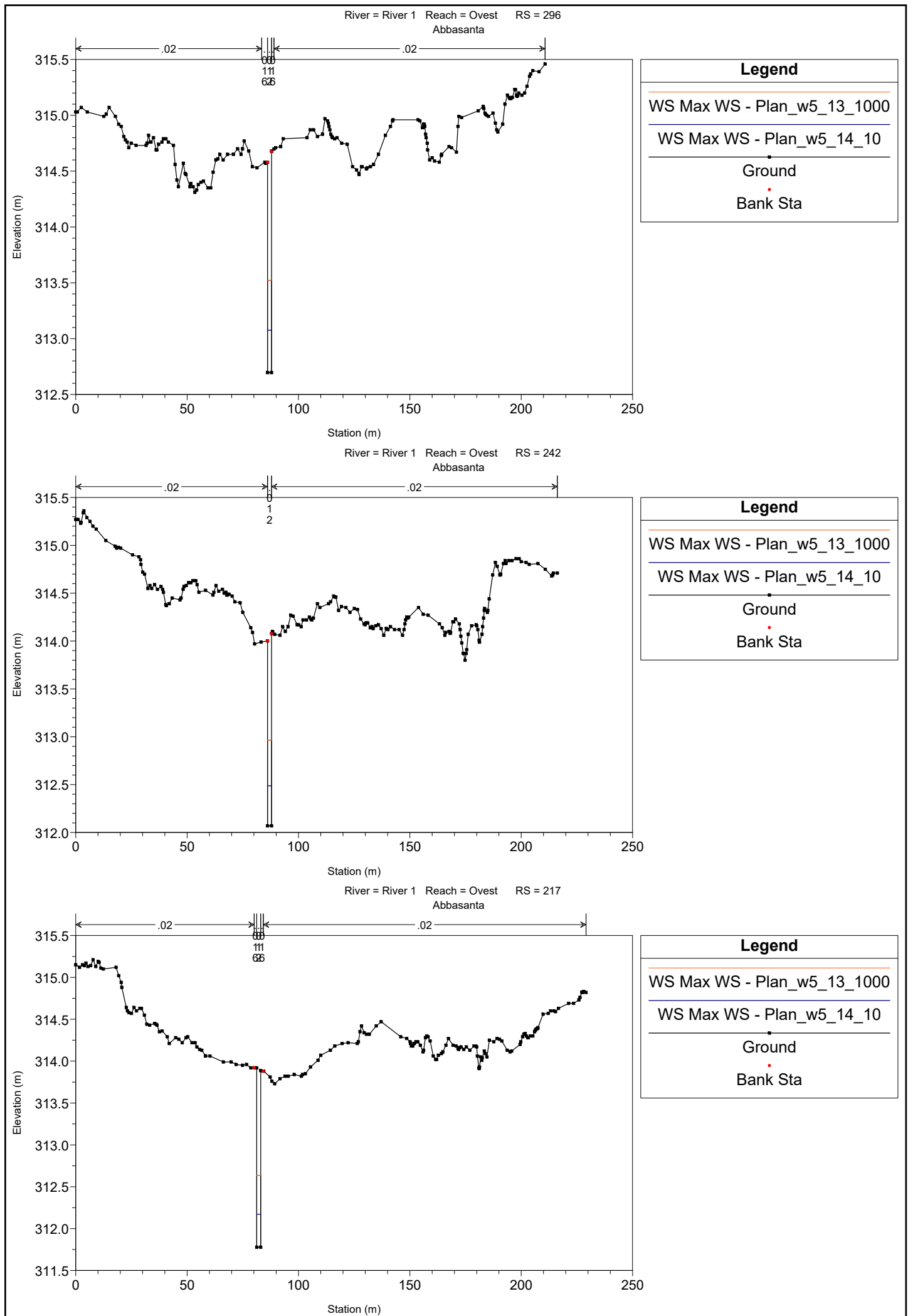


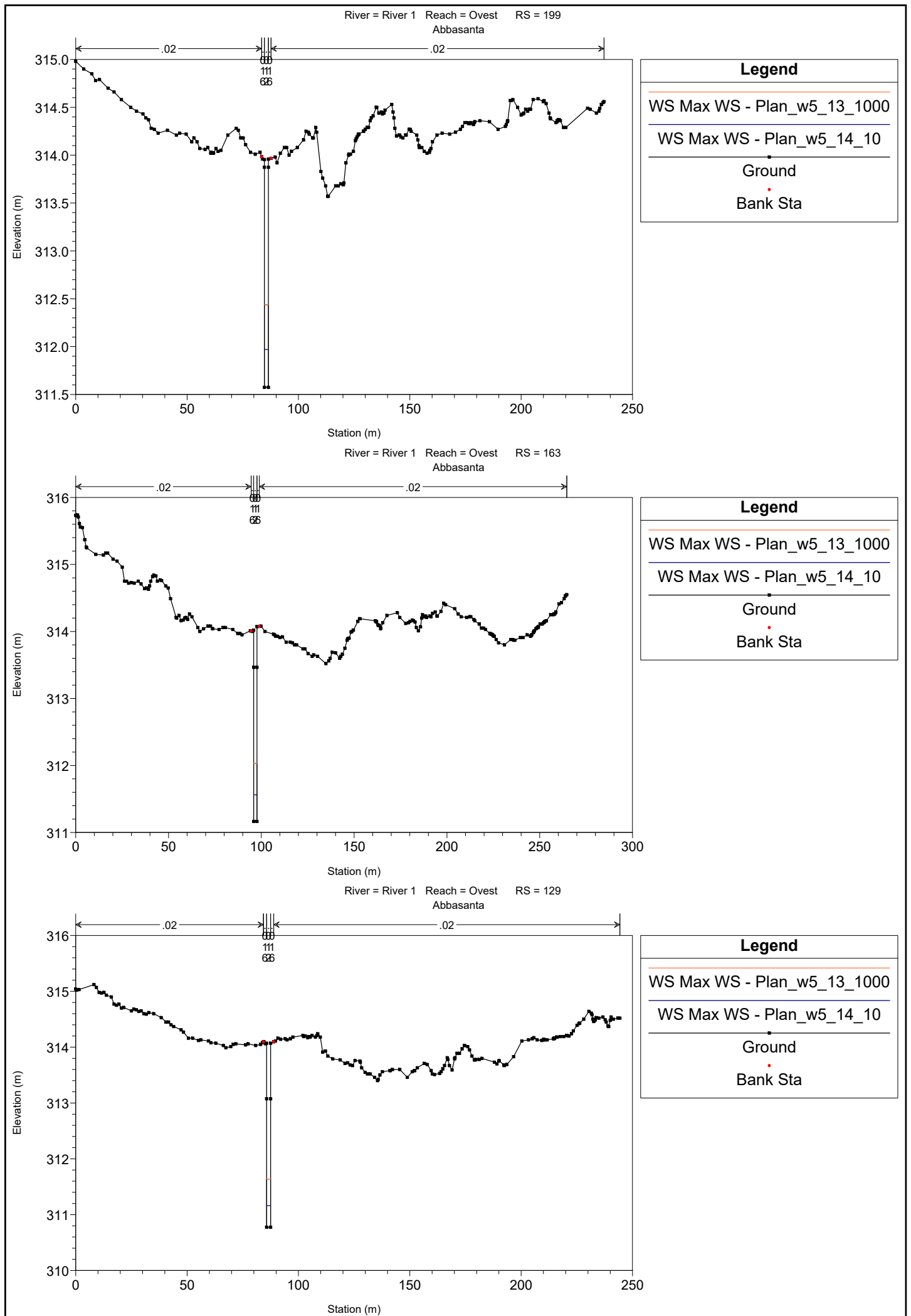


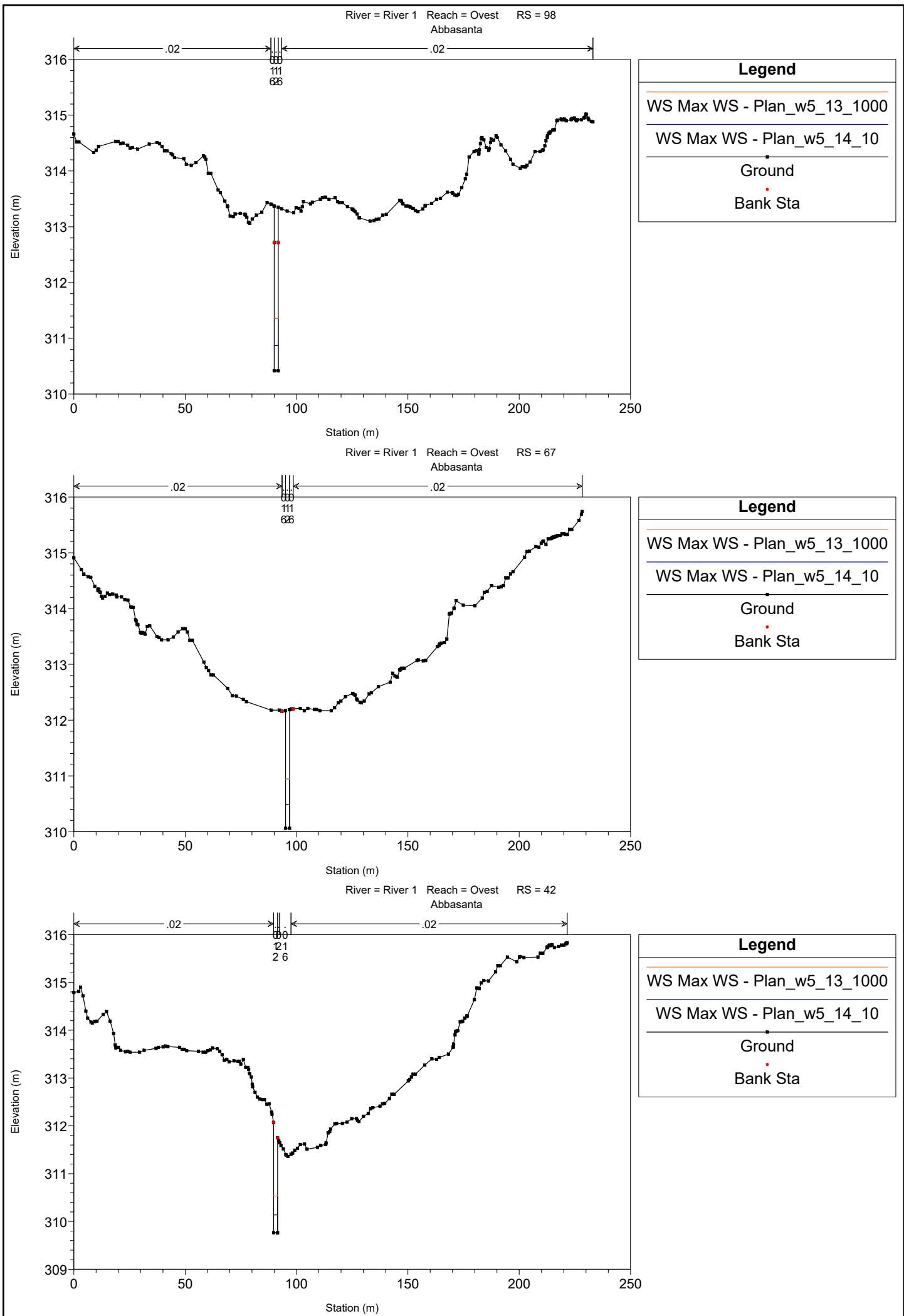


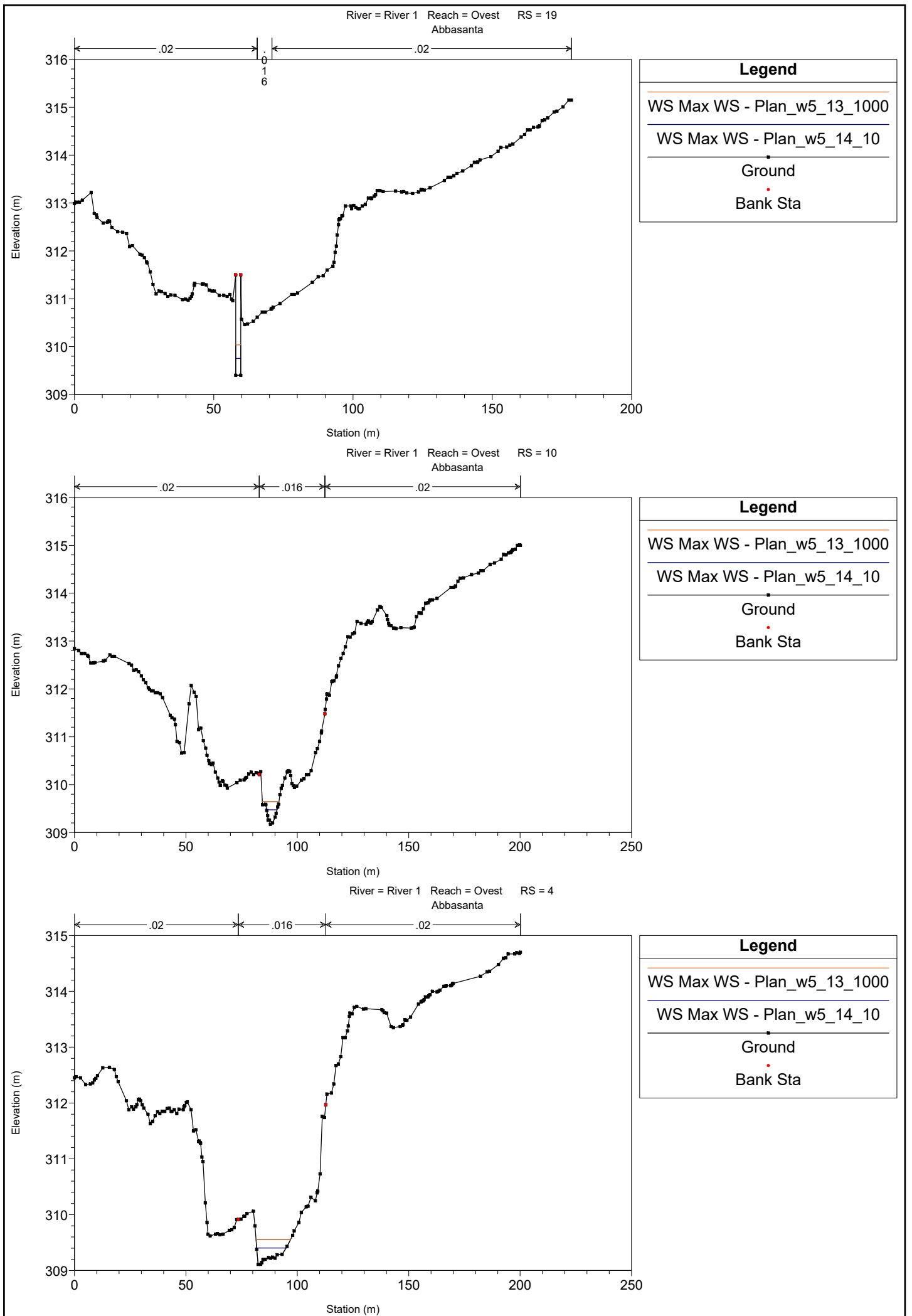


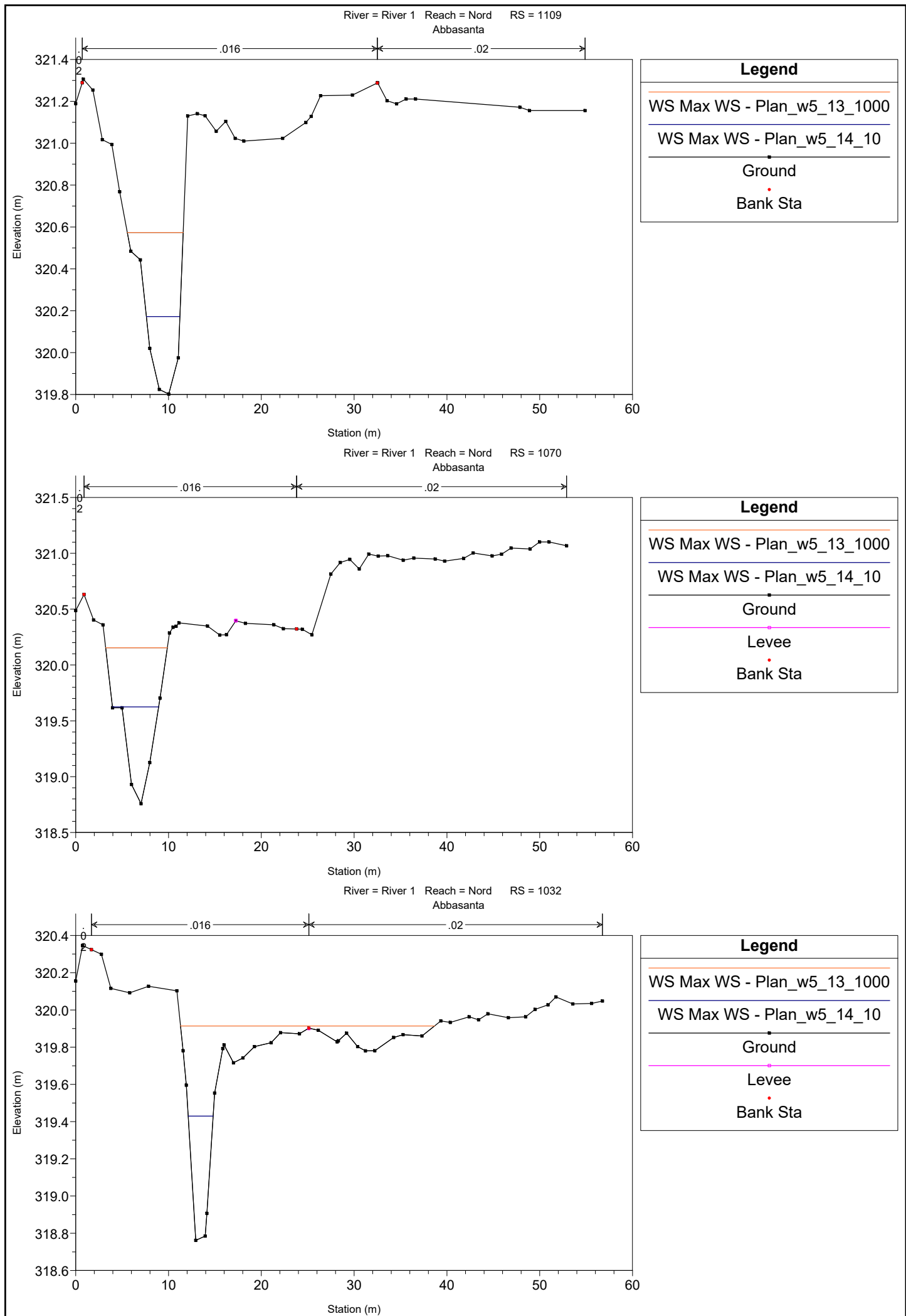


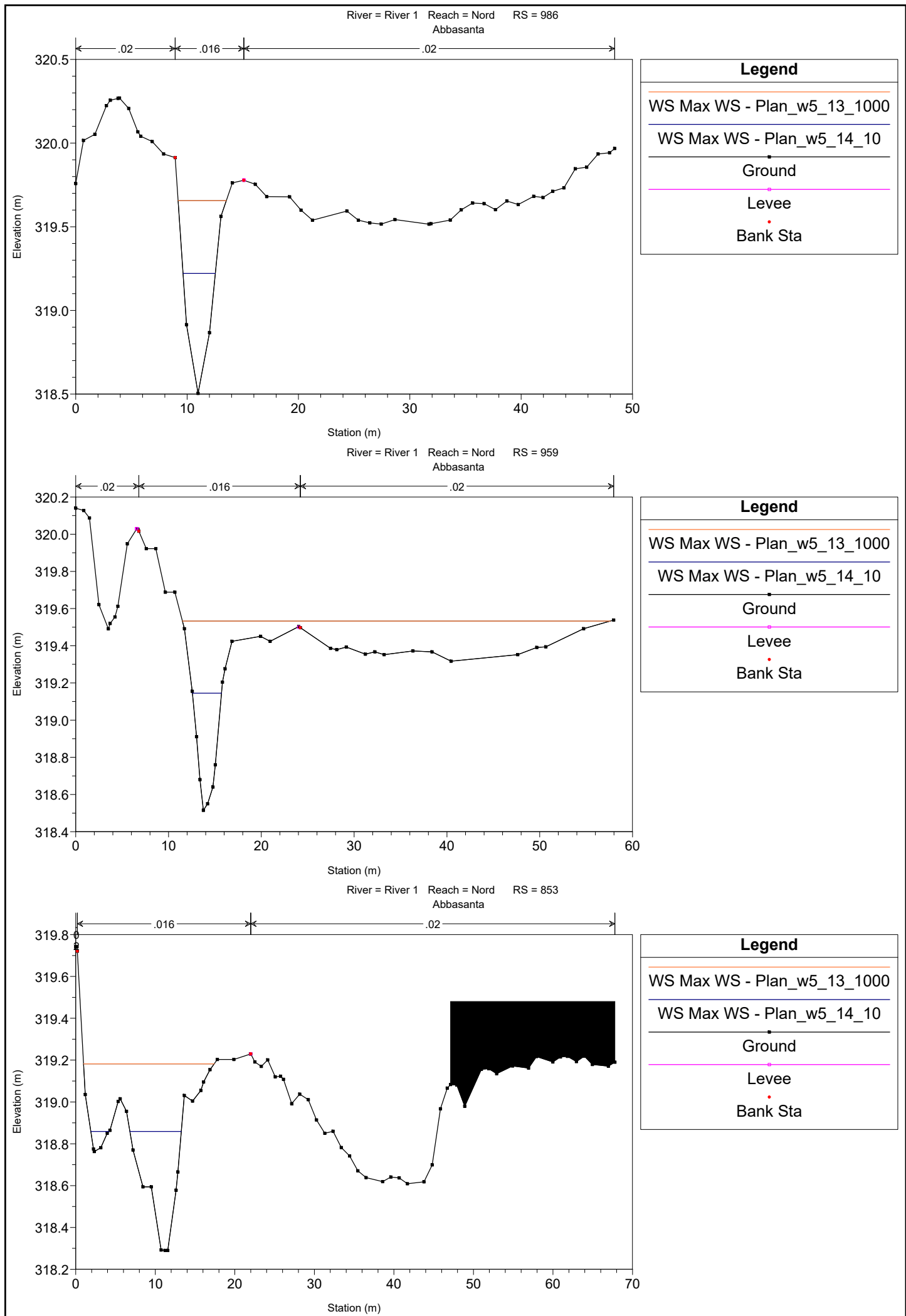




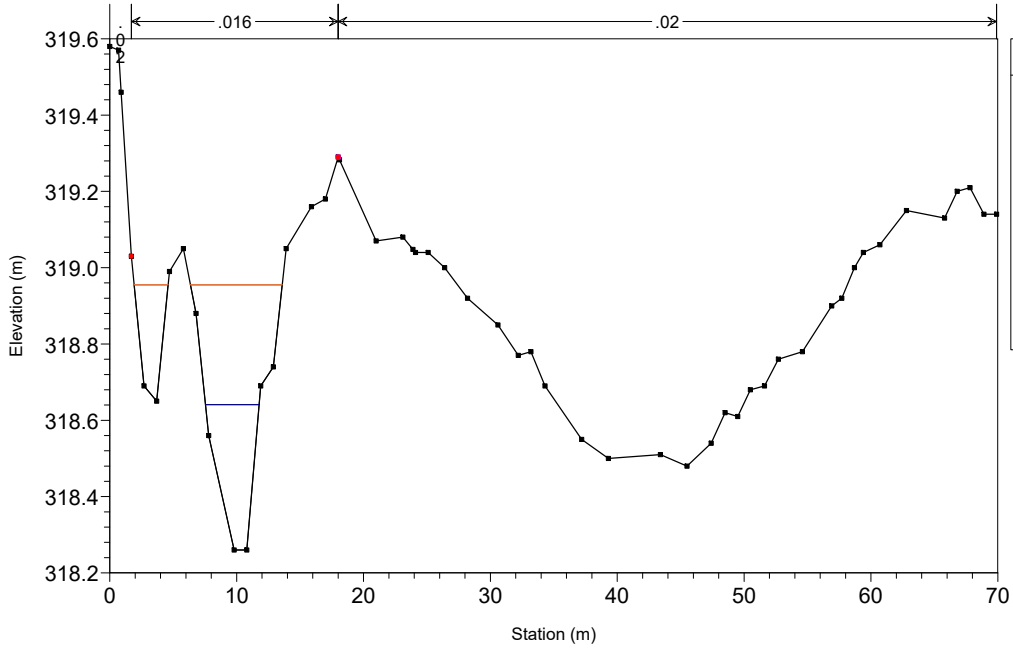




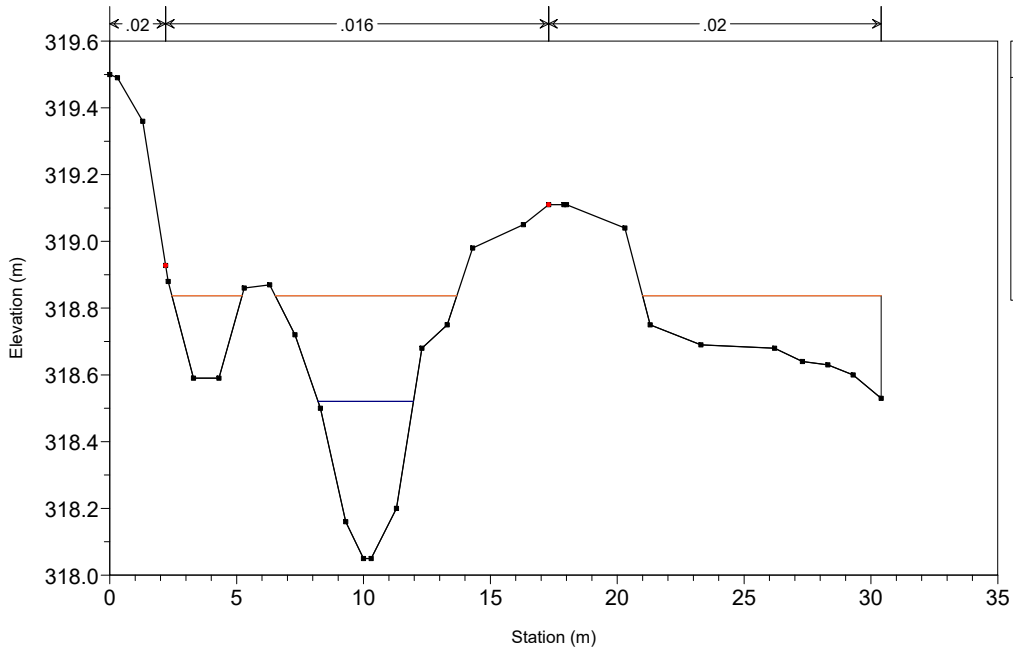




River = River 1 Reach = Nord
Abbasanta RS = 801



River = River 1 Reach = Nord
Abbasanta RS = 782



Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	2164	Max WS	2.00	323.37	323.56	0.19	34.07	0.72	0.78	0.864
Ovest	2086	Max WS	2.00	323.02	323.17	0.15	46.09	0.71	0.71	0.903
Ovest	1999	Max WS	1.99	322.33	322.49	0.17	39.06	0.66	0.66	0.763
Ovest	1930	Max WS	1.99	321.93	322.08	0.17	45.62	0.59	0.60	0.696
Ovest	1831	Max WS	0.51	321.29	321.57	0.29	85.69	0.04	0.04	0.034
Ovest	1804	Max WS	0.54	321.26	321.57	0.31	227.90	0.02	0.02	0.019
Ovest	1779	Max WS	0.51	321.33	321.57	0.24	197.11	0.02	0.02	0.025
Ovest	1758	Max WS	0.51	321.24	321.57	0.33	214.05	0.02	0.02	0.023
Ovest	1748	Max WS	0.50	321.15	321.57	0.42	169.54	0.02	0.02	0.023
Ovest	1744	Max WS	0.50	321.05	321.57	0.52	160.86	0.03	0.03	0.033
Ovest	1741	Max WS	0.50	321.01	321.57	0.56	147.75	0.03	0.03	0.024
Ovest	1740		Culvert							
Ovest	1703	Max WS	0.50	320.86	321.00	0.14	3.23	1.12	1.12	0.965
Ovest	1660	Max WS	0.50	320.62	320.76	0.14	3.23	1.12	1.12	0.962
Ovest	1627	Max WS	0.50	320.45	320.57	0.12	3.18	1.37	1.37	1.298
Ovest	1602	Max WS	0.51	320.17	320.31	0.14	3.20	1.21	1.21	1.064
Ovest	1587	Max WS	0.51	320.00	320.20	0.20	1.40	2.12	2.12	1.626
Ovest	1571	Max WS	0.55	319.80	320.02	0.22	1.44	2.07	2.07	1.534
Ovest	1539	Max WS	0.33	319.36	319.77	0.41	1.62	0.61	0.61	0.335
Ovest	1529	Max WS	0.76	319.26	319.79	0.53	2.93	0.60	0.60	0.296
Ovest	1524	Max WS	0.78	319.20	319.79	0.59	3.03	0.55	0.55	0.256
Ovest	1514	Max WS	0.83	319.15	319.79	0.64	3.22	0.52	0.52	0.235
Ovest	1494	Max WS	0.35	319.12	319.78	0.66	3.39	0.20	0.20	0.091
Ovest	1388	Max WS	0.38	319.02	319.78	0.76	3.23	0.20	0.20	0.083
Ovest	1300	Max WS	0.41	318.93	319.78	0.85	3.38	0.19	0.19	0.074
Ovest	1253	Max WS	0.43	318.87	319.78	0.91	3.53	0.18	0.18	0.068
Ovest	1245	Max WS	0.43	318.86	319.78	0.92	71.72	0.01	0.01	0.003
Ovest	1238	Max WS	0.43	318.83	319.78	0.95	64.06	0.01	0.01	0.003
Ovest	1236	Max WS	0.43	318.82	319.78	0.96	62.92	0.01	0.01	0.003
Ovest	1226	Max WS	0.44	318.79	319.78	0.99	58.23	0.01	0.01	0.003
Ovest	1164	Max WS	0.45	318.64	319.78	1.14	35.75	0.01	0.01	0.005
Ovest	1162		Inl Struct							
Ovest	1159	Max WS	0.30	318.63	319.27	0.64	5.89	0.09	0.09	0.036
Ovest	1158	Max WS	0.30	318.62	319.27	0.65	5.56	0.09	0.09	0.036
Ovest	1150		Bridge							
Ovest	1139	Max WS	0.30	318.54	319.27	0.73	5.53	0.08	0.08	0.030
Ovest	1130	Max WS	0.30	318.52	319.27	0.75	3.24	0.16	0.16	0.066
Ovest	1110	Max WS	0.65	318.47	319.26	0.79	3.76	0.30	0.30	0.124
Ovest	1070	Max WS	1.33	318.39	319.23	0.84	3.41	0.61	0.61	0.241
Ovest	1039	Max WS	1.86	318.33	319.18	0.85	3.24	0.87	0.87	0.341
Ovest	998	Max WS	2.55	318.28	319.08	0.80	3.30	1.25	1.25	0.510
Ovest	949	Max WS	3.30	318.20	318.81	0.61	3.01	2.24	2.24	1.022
Ovest	945	Max WS	3.34	318.19	318.80	0.61	3.01	2.29	2.29	1.048
Ovest	937	Max WS	3.10	318.17	318.77	0.60	2.99	2.17	2.17	1.001
Ovest	933	Max WS	2.90	318.04	318.76	0.72	3.14	1.63	1.63	0.691
Ovest	932		Inl Struct							
Ovest	931	Max WS	4.21	317.54	318.20	0.66	2.10	3.48	3.48	1.461
Ovest	907	Max WS	3.92	317.29	318.06	0.77	3.29	2.02	2.02	0.836
Ovest	906		Inl Struct							
Ovest	905	Max WS	4.88	316.69	317.29	0.60	2.51	3.78	3.78	1.681
Ovest	873	Max WS	2.58	316.32	316.81	0.49	2.24	2.76	2.76	1.363
Ovest	872	Max WS	2.21	316.31	316.80	0.49	28.61	0.19	0.19	0.098
Ovest	848	Max WS	2.32	316.30	316.80	0.50	54.84	0.11	0.11	0.053
Ovest	829.67	Max WS	2.32	316.29	316.80	0.51	54.96	0.10	0.10	0.051
Ovest	815	Max WS	2.32	316.29	316.80	0.51	78.98	0.07	0.07	0.035
Ovest	781	Max WS	2.39	316.28	316.80	0.52	143.96	0.04	0.04	0.019
Ovest	731	Max WS	2.37	316.15	316.80	0.65	117.55	0.04	0.04	0.016
Ovest	714	Max WS	2.36	316.10	316.80	0.70	110.75	0.04	0.04	0.015
Ovest	713		Inl Struct							
Ovest	696	Max WS	2.36	316.06	316.77	0.71	4.59	0.78	0.78	0.305
Ovest	690	Max WS	2.36	316.05	316.76	0.71	4.00	0.83	0.83	0.315
Ovest	686	Max WS	2.36	316.04	316.67	0.63	2.55	1.77	1.77	0.782
Ovest	681	Max WS	2.36	316.03	316.72	0.69	3.51	1.31	1.31	0.586
Ovest	675		Bridge							
Ovest	666	Max WS	2.36	315.99	316.35	0.36	2.00	3.29	3.29	1.755
Ovest	661	Max WS	2.36	315.91	316.33	0.42	2.00	2.83	2.83	1.401
Ovest	647	Max WS	2.36	315.76	316.17	0.41	2.00	2.88	2.88	1.437
Ovest	623	Max WS	2.38	315.56	316.00	0.44	2.00	2.70	2.70	1.297
Ovest	579	Max WS	2.40	315.19	315.61	0.42	2.00	2.85	2.85	1.406
Ovest	543	Max WS	2.42	314.89	315.26	0.38	2.00	3.21	3.21	1.671
Ovest	479	Max WS	2.45	314.35	314.72	0.37	2.00	3.29	3.29	1.725

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	451	Max WS	2.46	314.11	314.50	0.38	2.00	3.23	3.23	1.669
Ovest	404	Max WS	2.49	313.72	314.10	0.38	2.00	3.24	3.24	1.673
Ovest	365	Max WS	2.50	313.39	313.77	0.38	2.00	3.29	3.29	1.701
Ovest	335	Max WS	2.50	313.14	313.50	0.36	2.00	3.53	3.53	1.890
Ovest	296	Max WS	2.52	312.70	313.08	0.38	1.80	3.70	3.70	1.917
Ovest	242	Max WS	2.55	312.07	312.49	0.42	1.80	3.38	3.38	1.666
Ovest	217	Max WS	2.56	311.78	312.17	0.39	1.80	3.61	3.61	1.839
Ovest	199	Max WS	2.57	311.57	311.97	0.40	1.80	3.61	3.61	1.830
Ovest	163	Max WS	2.58	311.17	311.56	0.40	1.80	3.61	3.61	1.830
Ovest	129	Max WS	2.60	310.78	311.16	0.39	1.80	3.74	3.74	1.920
Ovest	98	Max WS	2.61	310.42	310.87	0.45	1.80	3.20	3.20	1.520
Ovest	67	Max WS	2.63	310.06	310.49	0.42	1.80	3.44	3.44	1.685
Ovest	42	Max WS	2.64	309.77	310.14	0.37	1.80	3.95	3.95	2.070
Ovest	19	Max WS	2.65	309.40	309.75	0.35	1.80	4.16	4.16	2.234
Ovest	10	Max WS	2.65	309.17	309.47	0.30	4.65	2.94	2.94	2.130
Ovest	4	Max WS	2.65	309.11	309.40	0.29	13.21	1.21	1.21	0.944
Nord	1109	Max WS	2.00	319.80	320.17	0.37	3.61	2.09	2.09	1.292
Nord	1070	Max WS	1.98	318.76	319.62	0.87	4.97	0.97	0.97	0.482
Nord	1032	Max WS	1.98	318.76	319.43	0.67	2.69	1.62	1.62	0.765
Nord	986	Max WS	1.97	318.50	319.22	0.72	2.89	1.62	1.62	0.797
Nord	959	Max WS	1.97	318.52	319.15	0.63	3.14	1.61	1.61	0.827
Nord	853	Max WS	1.95	318.29	318.86	0.57	8.73	0.90	0.90	0.575
Nord	801	Max WS	1.95	318.26	318.64	0.38	4.23	1.87	1.87	1.206
Nord	782	Max WS	1.94	318.05	318.52	0.47	3.76	1.72	1.72	1.006

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	2164	Max WS	3.70	323.37	323.60	0.23	43.27	0.85	0.89	0.915
Ovest	2086	Max WS	3.68	323.02	323.20	0.18	57.31	0.82	0.83	0.929
Ovest	1999	Max WS	3.67	322.33	322.53	0.21	52.52	0.77	0.77	0.812
Ovest	1930	Max WS	3.66	321.93	322.12	0.21	51.34	0.70	0.68	0.701
Ovest	1831	Max WS	0.65	321.29	321.66	0.38	103.47	0.03	0.03	0.022
Ovest	1804	Max WS	0.65	321.26	321.66	0.41	249.60	0.01	0.01	0.010
Ovest	1779	Max WS	0.64	321.33	321.66	0.33	229.20	0.02	0.02	0.012
Ovest	1758	Max WS	0.64	321.24	321.66	0.42	237.93	0.01	0.01	0.011
Ovest	1748	Max WS	0.64	321.15	321.66	0.51	221.18	0.02	0.02	0.013
Ovest	1744	Max WS	0.65	321.05	321.66	0.61	219.11	0.02	0.02	0.016
Ovest	1741	Max WS	0.64	321.01	321.66	0.65	186.47	0.02	0.02	0.014
Ovest	1740		Culvert							
Ovest	1703	Max WS	0.64	320.86	321.03	0.17	3.27	1.22	1.22	0.971
Ovest	1660	Max WS	0.64	320.62	320.79	0.17	3.27	1.22	1.22	0.973
Ovest	1627	Max WS	0.64	320.45	320.59	0.14	3.21	1.52	1.52	1.344
Ovest	1602	Max WS	0.65	320.17	320.33	0.16	3.24	1.27	1.27	1.021
Ovest	1587	Max WS	0.66	320.00	320.23	0.23	1.47	2.28	2.28	1.643
Ovest	1571	Max WS	0.37	319.80	320.07	0.27	1.54	1.07	1.07	0.725
Ovest	1539	Max WS	0.39	319.36	320.10	0.74	2.12	0.34	0.34	0.147
Ovest	1529	Max WS	0.40	319.26	320.10	0.84	3.61	0.17	0.17	0.070
Ovest	1524	Max WS	0.40	319.20	320.10	0.90	3.69	0.16	0.16	0.063
Ovest	1514	Max WS	0.40	319.15	320.10	0.95	3.93	0.15	0.15	0.056
Ovest	1494	Max WS	0.41	319.12	320.10	0.98	4.16	0.14	0.14	0.053
Ovest	1388	Max WS	0.44	319.02	320.10	1.08	3.84	0.15	0.15	0.052
Ovest	1300	Max WS	0.47	318.93	320.10	1.17	3.98	0.14	0.14	0.048
Ovest	1253	Max WS	0.49	318.87	320.10	1.23	4.15	0.13	0.13	0.045
Ovest	1245	Max WS	0.49	318.86	320.10	1.24	73.55	0.01	0.01	0.002
Ovest	1238	Max WS	0.50	318.83	320.10	1.27	65.61	0.01	0.01	0.002
Ovest	1236	Max WS	0.50	318.82	320.10	1.28	64.13	0.01	0.01	0.002
Ovest	1226	Max WS	0.50	318.79	320.10	1.31	59.40	0.01	0.01	0.002
Ovest	1164	Max WS	0.51	318.64	320.10	1.46	36.55	0.01	0.01	0.003
Ovest	1162		Inl Struct							
Ovest	1159	Max WS	0.25	318.63	319.48	0.85	6.17	0.05	0.05	0.019
Ovest	1158	Max WS	0.25	318.62	319.48	0.86	5.73	0.05	0.05	0.019
Ovest	1150		Bridge							
Ovest	1139	Max WS	0.25	318.54	319.48	0.94	5.68	0.05	0.05	0.017
Ovest	1130	Max WS	0.25	318.52	319.48	0.96	3.63	0.10	0.10	0.036
Ovest	1110	Max WS	0.78	318.47	319.47	1.00	4.27	0.26	0.26	0.097
Ovest	1070	Max WS	1.80	318.39	319.44	1.05	3.81	0.61	0.61	0.222
Ovest	1039	Max WS	2.61	318.33	319.38	1.05	3.58	0.92	0.92	0.332
Ovest	998	Max WS	3.64	318.28	319.26	0.98	3.65	1.37	1.37	0.510
Ovest	949	Max WS	4.76	318.20	318.96	0.76	3.30	2.45	2.45	1.020
Ovest	945	Max WS	4.85	318.19	318.95	0.76	3.32	2.50	2.50	1.045
Ovest	937	Max WS	4.43	318.17	318.92	0.75	3.30	2.31	2.31	0.969
Ovest	933	Max WS	5.00	318.04	318.93	0.89	3.46	2.13	2.13	0.827
Ovest	932		Inl Struct							
Ovest	931	Max WS	6.01	317.54	318.37	0.83	2.42	3.76	3.76	1.475
Ovest	907	Max WS	5.26	317.29	318.22	0.93	3.62	2.12	2.12	0.815
Ovest	906		Inl Struct							
Ovest	905	Max WS	6.84	316.69	317.43	0.74	2.67	4.13	4.13	1.674
Ovest	873	Max WS	3.56	316.32	317.00	0.68	2.49	2.55	2.55	1.089
Ovest	872	Max WS	3.21	316.31	317.00	0.69	29.16	0.19	0.19	0.078
Ovest	848	Max WS	3.13	316.30	317.00	0.70	55.74	0.10	0.10	0.039
Ovest	829.67	Max WS	3.10	316.29	317.00	0.71	55.42	0.09	0.09	0.038
Ovest	815	Max WS	3.05	316.29	317.00	0.71	79.60	0.06	0.06	0.026
Ovest	781	Max WS	3.08	316.28	317.00	0.72	144.64	0.03	0.03	0.014
Ovest	731	Max WS	3.17	316.15	317.00	0.85	118.28	0.04	0.04	0.013
Ovest	714	Max WS	3.12	316.10	317.00	0.90	111.48	0.04	0.04	0.013
Ovest	713		Inl Struct							
Ovest	696	Max WS	3.12	316.06	316.93	0.87	4.72	0.82	0.82	0.291
Ovest	690	Max WS	3.12	316.05	316.92	0.87	4.00	0.89	0.89	0.305
Ovest	686	Max WS	3.12	316.04	316.83	0.79	2.90	1.78	1.78	0.728
Ovest	681	Max WS	3.12	316.03	316.89	0.86	3.95	1.29	1.29	0.525
Ovest	675		Bridge							
Ovest	666	Max WS	3.12	315.99	316.43	0.44	2.00	3.52	3.52	1.688
Ovest	661	Max WS	3.12	315.91	316.41	0.50	2.00	3.10	3.10	1.395
Ovest	647	Max WS	3.13	315.76	316.26	0.50	2.00	3.13	3.13	1.416
Ovest	623	Max WS	3.14	315.56	316.09	0.53	2.00	2.96	2.96	1.295
Ovest	579	Max WS	3.16	315.19	315.70	0.50	2.00	3.14	3.14	1.412
Ovest	543	Max WS	3.18	314.89	315.34	0.45	2.00	3.52	3.52	1.669
Ovest	479	Max WS	3.21	314.35	314.79	0.44	2.00	3.68	3.68	1.776

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	451	Max WS	3.23	314.11	314.57	0.46	2.00	3.52	3.52	1.660
Ovest	404	Max WS	3.25	313.72	314.18	0.46	2.00	3.54	3.54	1.666
Ovest	365	Max WS	3.27	313.39	313.84	0.46	2.00	3.59	3.59	1.701
Ovest	335	Max WS	3.27	313.14	313.57	0.43	2.00	3.83	3.83	1.869
Ovest	296	Max WS	3.29	312.70	313.15	0.46	1.80	4.01	4.01	1.896
Ovest	242	Max WS	3.31	312.07	312.57	0.50	1.80	3.67	3.67	1.653
Ovest	217	Max WS	3.32	311.78	312.25	0.47	1.80	3.90	3.90	1.811
Ovest	199	Max WS	3.33	311.57	312.05	0.48	1.80	3.89	3.89	1.802
Ovest	163	Max WS	3.35	311.17	311.64	0.48	1.80	3.90	3.90	1.802
Ovest	129	Max WS	3.37	310.78	311.24	0.47	1.80	3.99	3.99	1.864
Ovest	98	Max WS	3.38	310.42	310.96	0.54	1.80	3.48	3.48	1.511
Ovest	67	Max WS	3.39	310.06	310.57	0.51	1.80	3.72	3.72	1.670
Ovest	42	Max WS	3.41	309.77	310.21	0.44	1.80	4.27	4.27	2.046
Ovest	19	Max WS	3.42	309.40	309.81	0.41	1.80	4.65	4.65	2.322
Ovest	10	Max WS	3.42	309.17	309.51	0.34	4.95	3.21	3.21	2.209
Ovest	4	Max WS	3.42	309.11	309.43	0.32	13.74	1.31	1.31	0.957
Nord	1109	Max WS	3.99	319.80	320.33	0.53	4.13	2.55	2.55	1.320
Nord	1070	Max WS	3.78	318.76	319.89	1.13	5.80	1.10	1.10	0.454
Nord	1032	Max WS	3.76	318.76	319.63	0.87	3.42	2.05	2.05	0.894
Nord	986	Max WS	3.74	318.50	319.40	0.89	3.34	2.11	2.11	0.927
Nord	959	Max WS	3.72	318.52	319.34	0.82	4.31	1.93	1.93	0.924
Nord	853	Max WS	3.65	318.29	319.01	0.72	12.21	0.99	0.99	0.573
Nord	801	Max WS	3.61	318.26	318.80	0.54	7.80	1.78	1.78	1.112
Nord	782	Max WS	3.61	318.05	318.69	0.64	13.91	1.55	1.74	1.018

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	2164	Max WS	4.70	323.37	323.62	0.25	49.47	0.91	0.93	0.949
Ovest	2086	Max WS	4.67	323.02	323.22	0.20	59.23	0.88	0.89	0.928
Ovest	1999	Max WS	4.66	322.33	322.55	0.23	59.04	0.81	0.81	0.828
Ovest	1930	Max WS	4.66	321.93	322.14	0.22	54.32	0.76	0.73	0.717
Ovest	1831	Max WS	0.67	321.29	321.70	0.41	104.93	0.03	0.03	0.018
Ovest	1804	Max WS	0.68	321.26	321.70	0.44	254.08	0.01	0.01	0.008
Ovest	1779	Max WS	0.71	321.33	321.70	0.37	231.03	0.01	0.01	0.010
Ovest	1758	Max WS	0.71	321.24	321.70	0.46	242.44	0.01	0.01	0.010
Ovest	1748	Max WS	0.70	321.15	321.70	0.55	233.96	0.01	0.02	0.011
Ovest	1744	Max WS	0.70	321.05	321.70	0.65	235.27	0.02	0.02	0.013
Ovest	1741	Max WS	0.70	321.01	321.70	0.69	202.88	0.02	0.02	0.012
Ovest	1740		Culvert							
Ovest	1703	Max WS	0.70	320.86	321.04	0.18	3.28	1.26	1.26	0.983
Ovest	1660	Max WS	0.70	320.62	320.80	0.18	3.28	1.26	1.26	0.983
Ovest	1627	Max WS	0.70	320.45	320.59	0.14	3.22	1.58	1.58	1.360
Ovest	1602	Max WS	0.71	320.17	320.34	0.17	3.26	1.29	1.29	1.009
Ovest	1587	Max WS	0.71	320.00	320.24	0.24	1.49	2.34	2.34	1.651
Ovest	1571	Max WS	0.40	319.80	320.22	0.42	1.83	0.67	0.67	0.379
Ovest	1539	Max WS	0.42	319.36	320.23	0.87	2.31	0.29	0.29	0.117
Ovest	1529	Max WS	0.42	319.26	320.23	0.97	3.88	0.15	0.15	0.057
Ovest	1524	Max WS	0.42	319.20	320.23	1.03	3.95	0.14	0.14	0.052
Ovest	1514	Max WS	0.42	319.15	320.23	1.08	4.21	0.13	0.13	0.047
Ovest	1494	Max WS	0.43	319.12	320.23	1.11	4.46	0.12	0.12	0.045
Ovest	1388	Max WS	0.46	319.02	320.23	1.21	4.08	0.13	0.13	0.045
Ovest	1300	Max WS	0.49	318.93	320.23	1.30	4.22	0.13	0.13	0.042
Ovest	1253	Max WS	0.51	318.87	320.23	1.36	4.39	0.10	0.10	0.039
Ovest	1245	Max WS	0.51	318.86	320.23	1.37	74.27	0.01	0.01	0.002
Ovest	1238	Max WS	0.51	318.83	320.23	1.40	66.21	0.01	0.01	0.002
Ovest	1236	Max WS	0.51	318.82	320.23	1.41	64.61	0.01	0.01	0.002
Ovest	1226	Max WS	0.52	318.79	320.23	1.44	59.86	0.01	0.01	0.002
Ovest	1164	Max WS	0.54	318.64	320.23	1.59	36.86	0.01	0.01	0.003
Ovest	1162		Inl Struct							
Ovest	1159	Max WS	0.25	318.63	319.58	0.95	6.30	0.05	0.05	0.016
Ovest	1158	Max WS	0.25	318.62	319.58	0.96	5.82	0.05	0.05	0.016
Ovest	1150		Bridge							
Ovest	1139	Max WS	0.25	318.54	319.58	1.04	5.75	0.04	0.04	0.015
Ovest	1130	Max WS	0.25	318.52	319.58	1.06	3.82	0.08	0.08	0.031
Ovest	1110	Max WS	0.88	318.47	319.57	1.10	4.51	0.25	0.25	0.092
Ovest	1070	Max WS	2.07	318.39	319.53	1.14	3.99	0.63	0.63	0.220
Ovest	1039	Max WS	3.03	318.33	319.47	1.14	3.73	0.96	0.96	0.332
Ovest	998	Max WS	4.25	318.28	319.34	1.06	3.80	1.43	1.43	0.517
Ovest	949	Max WS	5.55	318.20	319.03	0.83	3.43	2.56	2.56	1.026
Ovest	945	Max WS	5.65	318.19	319.02	0.83	3.45	2.61	2.61	1.050
Ovest	937	Max WS	5.16	318.17	318.99	0.82	3.44	2.40	2.40	0.972
Ovest	933	Max WS	5.71	318.04	318.99	0.95	3.56	2.25	2.25	0.851
Ovest	932		Inl Struct							
Ovest	931	Max WS	6.91	317.54	318.45	0.91	2.56	3.86	3.86	1.472
Ovest	907	Max WS	6.32	317.29	318.30	1.01	3.80	2.26	2.26	0.841
Ovest	906		Inl Struct							
Ovest	905	Max WS	8.03	316.69	317.50	0.81	2.75	4.38	4.38	1.714
Ovest	873	Max WS	3.54	316.32	317.12	0.80	2.65	2.08	2.08	0.827
Ovest	872	Max WS	4.06	316.31	317.13	0.82	29.48	0.20	0.20	0.075
Ovest	848	Max WS	3.68	316.30	317.13	0.83	56.30	0.09	0.09	0.035
Ovest	829.67	Max WS	3.66	316.29	317.13	0.83	55.72	0.09	0.09	0.034
Ovest	815	Max WS	3.60	316.29	317.13	0.84	79.98	0.06	0.06	0.023
Ovest	781	Max WS	3.64	316.28	317.13	0.85	145.06	0.03	0.03	0.013
Ovest	731	Max WS	3.55	316.15	317.13	0.98	118.74	0.03	0.03	0.012
Ovest	714	Max WS	3.54	316.10	317.13	1.03	111.94	0.03	0.03	0.012
Ovest	713		Inl Struct							
Ovest	696	Max WS	3.54	316.06	317.02	0.96	4.79	0.84	0.84	0.286
Ovest	690	Max WS	3.54	316.05	317.01	0.96	4.00	0.92	0.92	0.301
Ovest	686	Max WS	3.54	316.04	316.91	0.87	3.17	1.75	1.75	0.701
Ovest	681	Max WS	3.54	316.03	316.97	0.94	4.42	1.27	1.27	0.510
Ovest	675		Bridge							
Ovest	666	Max WS	3.54	315.99	316.48	0.49	2.00	3.63	3.63	1.659
Ovest	661	Max WS	3.54	315.91	316.46	0.55	2.00	3.23	3.23	1.390
Ovest	647	Max WS	3.55	315.76	316.31	0.54	2.00	3.26	3.26	1.410
Ovest	623	Max WS	3.56	315.56	316.14	0.58	2.00	3.08	3.08	1.294
Ovest	579	Max WS	3.58	315.19	315.74	0.55	2.00	3.27	3.27	1.414
Ovest	543	Max WS	3.60	314.89	315.38	0.49	2.00	3.66	3.66	1.665
Ovest	479	Max WS	3.63	314.35	314.82	0.47	2.00	3.89	3.89	1.815

HEC-RAS Plan: Plan_w5_12_100 Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	451	Max WS	3.65	314.11	314.61	0.50	2.00	3.66	3.66	1.654
Ovest	404	Max WS	3.67	313.72	314.22	0.50	2.00	3.68	3.68	1.661
Ovest	365	Max WS	3.69	313.39	313.88	0.49	2.00	3.73	3.73	1.697
Ovest	335	Max WS	3.69	313.14	313.61	0.47	2.00	3.96	3.96	1.856
Ovest	296	Max WS	3.71	312.70	313.19	0.50	1.80	4.15	4.15	1.884
Ovest	242	Max WS	3.73	312.07	312.61	0.55	1.80	3.80	3.80	1.643
Ovest	217	Max WS	3.74	311.78	312.29	0.52	1.80	4.04	4.04	1.795
Ovest	199	Max WS	3.75	311.57	312.09	0.52	1.80	4.02	4.02	1.785
Ovest	163	Max WS	3.77	311.17	311.68	0.52	1.80	4.03	4.03	1.787
Ovest	129	Max WS	3.78	310.78	311.29	0.51	1.80	4.11	4.11	1.836
Ovest	98	Max WS	3.80	310.42	311.00	0.59	1.80	3.61	3.61	1.504
Ovest	67	Max WS	3.81	310.06	310.61	0.55	1.80	3.86	3.86	1.664
Ovest	42	Max WS	3.83	309.77	310.25	0.48	1.80	4.42	4.42	2.036
Ovest	19	Max WS	3.84	309.40	309.84	0.44	1.80	4.89	4.89	2.362
Ovest	10	Max WS	3.84	309.17	309.52	0.35	5.09	3.35	3.35	2.253
Ovest	4	Max WS	3.84	309.11	309.45	0.34	13.95	1.36	1.36	0.970
Nord	1109	Max WS	4.97	319.80	320.40	0.60	4.36	2.68	2.68	1.308
Nord	1070	Max WS	4.70	318.76	319.98	1.22	6.10	1.17	1.17	0.460
Nord	1032	Max WS	4.67	318.76	319.72	0.96	4.35	2.16	2.16	0.976
Nord	986	Max WS	4.64	318.50	319.47	0.97	3.53	2.29	2.29	0.963
Nord	959	Max WS	4.59	318.52	319.43	0.92	7.02	1.92	1.92	1.053
Nord	853	Max WS	4.49	318.29	319.06	0.77	14.58	1.02	1.02	0.596
Nord	801	Max WS	4.45	318.26	318.84	0.58	8.35	1.85	1.85	1.105
Nord	782	Max WS	4.44	318.05	318.74	0.69	16.60	1.47	1.73	1.022

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	2164	Max WS	5.40	323.37	323.63	0.26	53.03	0.93	0.94	0.948
Ovest	2086	Max WS	5.37	323.02	323.23	0.21	60.74	0.90	0.91	0.917
Ovest	1999	Max WS	5.36	322.33	322.56	0.24	61.09	0.84	0.84	0.835
Ovest	1930	Max WS	5.36	321.93	322.15	0.23	55.97	0.81	0.76	0.738
Ovest	1831	Max WS	0.81	321.29	321.73	0.45	108.51	0.03	0.03	0.018
Ovest	1804	Max WS	0.79	321.26	321.73	0.48	259.91	0.01	0.01	0.007
Ovest	1779	Max WS	0.77	321.33	321.73	0.40	232.49	0.01	0.01	0.009
Ovest	1758	Max WS	0.77	321.24	321.73	0.49	248.07	0.01	0.01	0.008
Ovest	1748	Max WS	0.76	321.15	321.73	0.58	239.80	0.01	0.01	0.009
Ovest	1744	Max WS	0.76	321.05	321.73	0.68	245.96	0.02	0.02	0.011
Ovest	1741	Max WS	0.76	321.01	321.73	0.72	214.25	0.02	0.02	0.010
Ovest	1740		Culvert							
Ovest	1703	Max WS	0.76	320.86	321.04	0.18	3.30	1.30	1.30	0.991
Ovest	1660	Max WS	0.76	320.62	320.80	0.18	3.29	1.31	1.31	0.994
Ovest	1627	Max WS	0.76	320.45	320.60	0.15	3.23	1.63	1.63	1.375
Ovest	1602	Max WS	0.43	320.17	320.38	0.21	3.31	0.65	0.65	0.469
Ovest	1587	Max WS	0.41	320.00	320.34	0.34	1.68	0.90	0.90	0.552
Ovest	1571	Max WS	0.42	319.80	320.36	0.56	2.12	0.49	0.49	0.243
Ovest	1539	Max WS	0.44	319.36	320.36	1.00	2.51	0.25	0.25	0.095
Ovest	1529	Max WS	0.44	319.26	320.37	1.11	4.17	0.13	0.13	0.048
Ovest	1524	Max WS	0.44	319.20	320.37	1.17	4.23	0.13	0.13	0.044
Ovest	1514	Max WS	0.45	319.15	320.37	1.22	4.51	0.12	0.12	0.040
Ovest	1494	Max WS	0.45	319.12	320.37	1.25	4.78	0.11	0.11	0.038
Ovest	1388	Max WS	0.49	319.02	320.37	1.35	4.34	0.12	0.12	0.039
Ovest	1300	Max WS	0.52	318.93	320.37	1.44	4.47	0.11	0.11	0.036
Ovest	1253	Max WS	0.53	318.87	320.37	1.50	4.65	0.10	0.10	0.034
Ovest	1245	Max WS	0.54	318.86	320.37	1.51	75.04	0.01	0.01	0.002
Ovest	1238	Max WS	0.54	318.83	320.37	1.54	66.86	0.01	0.01	0.002
Ovest	1236	Max WS	0.54	318.82	320.37	1.55	65.12	0.01	0.01	0.002
Ovest	1226	Max WS	0.54	318.79	320.37	1.58	60.35	0.01	0.01	0.002
Ovest	1164	Max WS	0.56	318.64	320.37	1.73	37.20	0.01	0.01	0.003
Ovest	1162		Inl Struct							
Ovest	1159	Max WS	0.21	318.63	319.70	1.07	6.47	0.03	0.03	0.011
Ovest	1158	Max WS	0.21	318.62	319.70	1.08	5.92	0.03	0.03	0.011
Ovest	1150		Bridge							
Ovest	1139	Max WS	0.21	318.54	319.70	1.16	5.84	0.03	0.03	0.010
Ovest	1130	Max WS	0.20	318.52	319.70	1.18	4.06	0.06	0.06	0.020
Ovest	1110	Max WS	0.97	318.47	319.69	1.22	4.81	0.24	0.24	0.084
Ovest	1070	Max WS	2.43	318.39	319.66	1.27	4.23	0.64	0.64	0.214
Ovest	1039	Max WS	3.59	318.33	319.59	1.26	3.93	0.99	0.99	0.331
Ovest	998	Max WS	5.05	318.28	319.45	1.17	4.00	1.49	1.49	0.517
Ovest	949	Max WS	6.51	318.20	319.13	0.93	3.62	2.60	2.60	0.997
Ovest	945	Max WS	6.53	318.19	319.11	0.92	3.65	2.60	2.60	1.001
Ovest	937	Max WS	6.45	318.17	319.08	0.91	3.63	2.60	2.60	1.005
Ovest	933	Max WS	6.89	318.04	319.09	1.05	3.75	2.36	2.36	0.855
Ovest	932		Inl Struct							
Ovest	931	Max WS	7.91	317.54	318.54	1.00	2.73	3.89	3.89	1.437
Ovest	907	Max WS	8.42	317.29	318.41	1.12	4.02	2.62	2.62	0.937
Ovest	906		Inl Struct							
Ovest	905	Max WS	9.57	316.69	317.58	0.89	2.85	4.64	4.64	1.740
Ovest	873	Max WS	4.99	316.32	317.28	0.96	2.85	2.35	2.35	0.869
Ovest	872	Max WS	4.35	316.31	317.29	0.98	29.93	0.17	0.17	0.059
Ovest	848	Max WS	4.59	316.30	317.29	0.99	57.05	0.09	0.09	0.032
Ovest	829.67	Max WS	4.30	316.29	317.29	1.00	56.10	0.09	0.09	0.030
Ovest	815	Max WS	4.28	316.29	317.29	1.00	80.49	0.06	0.06	0.020
Ovest	781	Max WS	4.53	316.28	317.29	1.01	145.63	0.03	0.03	0.012
Ovest	731	Max WS	4.41	316.15	317.29	1.14	119.34	0.04	0.04	0.011
Ovest	714	Max WS	4.39	316.10	317.29	1.19	112.56	0.04	0.04	0.011
Ovest	713		Inl Struct							
Ovest	696	Max WS	4.39	316.06	317.14	1.08	4.89	0.92	0.92	0.295
Ovest	690	Max WS	4.39	316.05	317.13	1.08	4.00	1.02	1.02	0.314
Ovest	686	Max WS	4.39	316.04	317.04	1.00	4.13	1.78	1.79	0.718
Ovest	681	Max WS	4.39	316.03	317.09	1.06	5.90	1.30	1.32	0.488
Ovest	675		Bridge							
Ovest	666	Max WS	4.39	315.99	316.56	0.57	2.00	3.83	3.83	1.618
Ovest	661	Max WS	4.39	315.91	316.54	0.63	2.00	3.46	3.46	1.387
Ovest	647	Max WS	4.40	315.76	316.39	0.63	4.04	3.39	3.49	1.408
Ovest	623	Max WS	4.41	315.56	316.22	0.67	2.00	3.31	3.31	1.297
Ovest	579	Max WS	4.43	315.19	315.82	0.63	2.00	3.52	3.52	1.416
Ovest	543	Max WS	4.45	314.89	315.45	0.57	2.00	3.93	3.93	1.665
Ovest	479	Max WS	4.48	314.35	314.87	0.52	2.00	4.30	4.30	1.904

HEC-RAS Plan: Plan_w5_09_200 Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	451	Max WS	4.50	314.11	314.69	0.58	3.98	3.77	3.89	1.634
Ovest	404	Max WS	4.52	313.72	314.29	0.58	2.00	3.92	3.92	1.648
Ovest	365	Max WS	4.54	313.39	313.96	0.57	2.00	3.99	3.99	1.688
Ovest	335	Max WS	4.54	313.14	313.68	0.54	2.00	4.20	4.20	1.826
Ovest	296	Max WS	4.56	312.70	313.27	0.57	1.80	4.40	4.40	1.855
Ovest	242	Max WS	4.58	312.07	312.70	0.63	1.80	4.04	4.04	1.624
Ovest	217	Max WS	4.59	311.78	312.38	0.60	1.80	4.27	4.27	1.764
Ovest	199	Max WS	4.60	311.57	312.18	0.60	1.80	4.25	4.25	1.752
Ovest	163	Max WS	4.62	311.17	311.77	0.60	1.80	4.26	4.26	1.754
Ovest	129	Max WS	4.63	310.78	311.37	0.60	1.80	4.32	4.32	1.786
Ovest	98	Max WS	4.65	310.42	311.09	0.67	1.80	3.83	3.83	1.492
Ovest	67	Max WS	4.66	310.06	310.69	0.63	1.80	4.11	4.11	1.651
Ovest	42	Max WS	4.67	309.77	310.32	0.55	1.80	4.70	4.70	2.017
Ovest	19	Max WS	4.68	309.40	309.89	0.49	1.80	5.28	5.28	2.402
Ovest	10	Max WS	4.69	309.17	309.56	0.39	5.44	3.51	3.51	2.266
Ovest	4	Max WS	4.69	309.11	309.48	0.37	14.37	1.45	1.45	0.980
Nord	1109	Max WS	5.39	319.80	320.44	0.64	4.49	2.64	2.64	1.252
Nord	1070	Max WS	5.31	318.76	320.04	1.28	6.27	1.22	1.22	0.467
Nord	1032	Max WS	5.31	318.76	319.78	1.02	6.66	2.15	2.15	1.126
Nord	986	Max WS	5.30	318.50	319.53	1.03	3.67	2.38	2.38	0.975
Nord	959	Max WS	5.33	318.52	319.51	0.99	44.03	0.76	1.04	0.662
Nord	853	Max WS	5.14	318.29	319.09	0.80	14.91	1.05	1.05	0.587
Nord	801	Max WS	5.12	318.26	318.88	0.62	8.73	1.92	1.92	1.112
Nord	782	Max WS	5.12	318.05	318.77	0.72	17.78	1.45	1.73	1.013

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	2164	Max WS	7.70	323.37	323.66	0.29	57.71	1.06	1.07	0.995
Ovest	2086	Max WS	7.65	323.02	323.25	0.23	64.85	1.02	1.03	0.955
Ovest	1999	Max WS	7.61	322.33	322.59	0.27	74.75	0.90	0.90	0.849
Ovest	1930	Max WS	7.59	321.93	322.18	0.26	64.45	0.91	0.82	0.775
Ovest	1831	Max WS	0.80	321.29	321.77	0.49	119.22	0.02	0.02	0.014
Ovest	1804	Max WS	0.87	321.26	321.77	0.52	263.26	0.01	0.01	0.007
Ovest	1779	Max WS	0.86	321.33	321.77	0.44	238.39	0.01	0.01	0.008
Ovest	1758	Max WS	0.84	321.24	321.77	0.53	250.44	0.01	0.01	0.007
Ovest	1748	Max WS	0.83	321.15	321.77	0.62	244.61	0.01	0.01	0.008
Ovest	1744	Max WS	0.83	321.05	321.77	0.72	259.23	0.01	0.01	0.009
Ovest	1741	Max WS	0.83	321.01	321.77	0.76	225.02	0.01	0.02	0.009
Ovest	1740		Culvert							
Ovest	1703	Max WS	0.83	320.86	321.05	0.19	3.31	1.35	1.35	0.997
Ovest	1660	Max WS	0.83	320.62	320.81	0.19	3.31	1.35	1.35	1.002
Ovest	1627	Max WS	0.83	320.45	320.61	0.16	3.24	1.69	1.69	1.386
Ovest	1602	Max WS	0.44	320.17	320.53	0.36	3.54	0.37	0.37	0.206
Ovest	1587	Max WS	0.44	320.00	320.52	0.52	2.04	0.56	0.56	0.287
Ovest	1571	Max WS	0.45	319.80	320.53	0.73	2.45	0.36	0.36	0.161
Ovest	1539	Max WS	0.46	319.36	320.53	1.17	2.76	0.21	0.21	0.075
Ovest	1529	Max WS	0.47	319.26	320.53	1.27	4.52	0.12	0.12	0.040
Ovest	1524	Max WS	0.47	319.20	320.53	1.33	4.58	0.11	0.11	0.037
Ovest	1514	Max WS	0.47	319.15	320.53	1.38	4.88	0.10	0.10	0.034
Ovest	1494	Max WS	0.48	319.12	320.53	1.41	5.18	0.10	0.10	0.032
Ovest	1388	Max WS	0.51	319.02	320.53	1.51	4.65	0.11	0.11	0.033
Ovest	1300	Max WS	0.54	318.93	320.53	1.60	4.78	0.10	0.10	0.031
Ovest	1253	Max WS	0.56	318.87	320.53	1.66	4.96	0.10	0.10	0.030
Ovest	1245	Max WS	0.56	318.86	320.53	1.67	75.97	0.01	0.01	0.001
Ovest	1238	Max WS	0.57	318.83	320.53	1.70	67.65	0.01	0.01	0.002
Ovest	1236	Max WS	0.57	318.82	320.53	1.71	65.74	0.01	0.01	0.001
Ovest	1226	Max WS	0.57	318.79	320.53	1.74	60.95	0.01	0.01	0.002
Ovest	1164	Max WS	0.58	318.64	320.53	1.89	37.60	0.01	0.01	0.002
Ovest	1162		Inl Struct							
Ovest	1159	Max WS	0.26	318.63	319.82	1.19	6.64	0.04	0.04	0.012
Ovest	1158	Max WS	0.26	318.62	319.82	1.20	6.03	0.04	0.04	0.012
Ovest	1150		Bridge							
Ovest	1139	Max WS	0.26	318.54	319.82	1.28	5.92	0.04	0.04	0.011
Ovest	1130	Max WS	0.25	318.52	319.82	1.30	4.29	0.06	0.06	0.021
Ovest	1110	Max WS	1.13	318.47	319.81	1.34	5.11	0.24	0.24	0.082
Ovest	1070	Max WS	2.81	318.39	319.78	1.39	4.46	0.65	0.65	0.210
Ovest	1039	Max WS	4.15	318.33	319.71	1.38	4.13	1.01	1.01	0.326
Ovest	998	Max WS	5.85	318.28	319.56	1.28	4.22	1.51	1.51	0.505
Ovest	949	Max WS	7.56	318.20	319.23	1.03	3.82	2.63	2.63	0.966
Ovest	945	Max WS	7.67	318.19	319.21	1.02	3.84	2.66	2.66	0.983
Ovest	937	Max WS	7.24	318.17	319.18	1.01	3.82	2.55	2.55	0.942
Ovest	933	Max WS	7.04	318.04	319.18	1.14	3.91	2.17	2.17	0.762
Ovest	932		Inl Struct							
Ovest	931	Max WS	9.63	317.54	318.64	1.10	2.91	4.18	4.18	1.499
Ovest	907	Max WS	9.73	317.29	318.49	1.20	4.20	2.73	2.73	0.948
Ovest	906		Inl Struct							
Ovest	905	Max WS	11.29	316.69	317.66	0.97	2.94	4.92	4.92	1.779
Ovest	873	Max WS	5.87	316.32	317.42	1.10	3.03	2.31	2.31	0.804
Ovest	872	Max WS	5.12	316.31	317.44	1.13	30.32	0.17	0.17	0.055
Ovest	848	Max WS	5.42	316.30	317.44	1.14	57.72	0.09	0.09	0.030
Ovest	829.67	Max WS	5.64	316.29	317.44	1.14	56.45	0.10	0.10	0.031
Ovest	815	Max WS	5.59	316.29	317.44	1.15	80.94	0.07	0.07	0.021
Ovest	781	Max WS	5.50	316.28	317.44	1.16	146.13	0.04	0.04	0.011
Ovest	731	Max WS	5.46	316.15	317.44	1.29	119.88	0.04	0.04	0.012
Ovest	714	Max WS	5.43	316.10	317.44	1.34	113.10	0.04	0.04	0.011
Ovest	713		Inl Struct							
Ovest	696	Max WS	5.43	316.06	317.25	1.19	4.98	1.02	1.02	0.315
Ovest	690	Max WS	5.42	316.05	317.23	1.18	4.00	1.15	1.15	0.339
Ovest	686	Max WS	5.42	316.04	317.14	1.10	5.11	1.85	1.89	0.704
Ovest	681	Max WS	5.42	316.03	317.20	1.17	6.36	1.35	1.42	0.493
Ovest	675		Bridge							
Ovest	666	Max WS	5.42	315.99	316.66	0.67	2.00	4.07	4.07	1.595
Ovest	661	Max WS	5.42	315.91	316.64	0.73	2.00	3.72	3.72	1.392
Ovest	647	Max WS	5.43	315.76	316.48	0.72	8.95	2.94	3.62	1.366
Ovest	623	Max WS	5.44	315.56	316.32	0.76	2.00	3.57	3.57	1.305
Ovest	579	Max WS	5.46	315.19	315.92	0.72	2.00	3.77	3.77	1.416
Ovest	543	Max WS	5.48	314.89	315.54	0.65	2.00	4.21	4.21	1.668
Ovest	479	Max WS	5.51	314.35	314.93	0.58	3.74	4.65	4.76	1.998

HEC-RAS Plan: Plan_w5_10_500 Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	451	Max WS	5.52	314.11	314.78	0.66	12.71	2.78	3.83	1.502
Ovest	404	Max WS	5.55	313.72	314.38	0.67	2.00	4.17	4.17	1.631
Ovest	365	Max WS	5.57	313.39	314.04	0.66	2.00	4.24	4.24	1.673
Ovest	335	Max WS	5.57	313.14	313.77	0.63	2.00	4.44	4.44	1.789
Ovest	296	Max WS	5.58	312.70	313.36	0.67	1.80	4.65	4.65	1.819
Ovest	242	Max WS	5.61	312.07	312.80	0.73	1.80	4.28	4.28	1.600
Ovest	217	Max WS	5.62	311.78	312.47	0.69	1.80	4.50	4.50	1.725
Ovest	199	Max WS	5.63	311.57	312.27	0.70	1.80	4.48	4.48	1.714
Ovest	163	Max WS	5.65	311.17	311.86	0.70	1.80	4.49	4.49	1.715
Ovest	129	Max WS	5.66	310.78	311.47	0.69	1.80	4.53	4.53	1.734
Ovest	98	Max WS	5.68	310.42	311.19	0.77	1.80	4.07	4.07	1.477
Ovest	67	Max WS	5.69	310.06	310.79	0.72	1.80	4.36	4.36	1.637
Ovest	42	Max WS	5.70	309.77	310.40	0.63	1.80	4.99	4.99	1.999
Ovest	19	Max WS	5.71	309.40	309.95	0.55	1.80	5.72	5.72	2.455
Ovest	10	Max WS	5.72	309.17	309.60	0.43	7.24	3.66	3.66	2.517
Ovest	4	Max WS	5.72	309.11	309.51	0.40	14.80	1.56	1.56	1.001
Nord	1109	Max WS	7.70	319.80	320.57	0.77	6.02	2.77	2.77	1.300
Nord	1070	Max WS	7.63	318.76	320.15	1.39	6.64	1.49	1.49	0.543
Nord	1032	Max WS	7.53	318.76	319.91	1.15	27.30	1.60	1.83	1.113
Nord	986	Max WS	7.52	318.50	319.65	1.15	4.31	2.77	2.77	1.112
Nord	959	Max WS	7.36	318.52	319.53	1.02	46.13	0.89	1.22	0.741
Nord	853	Max WS	7.25	318.29	319.18	0.89	16.30	1.17	1.17	0.605
Nord	801	Max WS	7.21	318.26	318.95	0.69	9.84	2.15	2.15	1.174
Nord	782	Max WS	7.20	318.05	318.83	0.78	19.19	1.52	1.81	1.018

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	2164	Max WS	7.70	323.37	323.66	0.29	57.71	1.06	1.07	0.995
Ovest	2086	Max WS	7.67	323.02	323.25	0.23	64.88	1.02	1.03	0.954
Ovest	1999	Max WS	7.66	322.33	322.59	0.27	74.90	0.90	0.90	0.851
Ovest	1930	Max WS	7.65	321.93	322.18	0.26	64.64	0.91	0.82	0.776
Ovest	1831	Max WS	0.87	321.29	321.81	0.52	128.75	0.02	0.02	0.014
Ovest	1804	Max WS	0.94	321.26	321.81	0.55	264.33	0.01	0.01	0.006
Ovest	1779	Max WS	0.91	321.33	321.81	0.48	238.77	0.01	0.01	0.007
Ovest	1758	Max WS	0.89	321.24	321.81	0.57	252.54	0.01	0.01	0.006
Ovest	1748	Max WS	0.90	321.15	321.81	0.66	247.58	0.01	0.01	0.007
Ovest	1744	Max WS	0.89	321.05	321.81	0.76	263.66	0.01	0.01	0.008
Ovest	1741	Max WS	0.89	321.01	321.81	0.80	233.62	0.01	0.01	0.008
Ovest	1740		Culvert							
Ovest	1703	Max WS	0.89	320.86	321.06	0.20	3.33	1.38	1.38	1.002
Ovest	1660	Max WS	0.89	320.62	320.82	0.20	3.32	1.39	1.39	1.009
Ovest	1627	Max WS	0.46	320.45	320.68	0.23	3.36	0.61	0.61	0.414
Ovest	1602	Max WS	0.47	320.17	320.69	0.52	3.78	0.26	0.26	0.123
Ovest	1587	Max WS	0.47	320.00	320.69	0.69	2.38	0.41	0.41	0.186
Ovest	1571	Max WS	0.48	319.80	320.69	0.89	2.78	0.28	0.28	0.117
Ovest	1539	Max WS	0.49	319.36	320.69	1.33	3.01	0.18	0.18	0.062
Ovest	1529	Max WS	0.49	319.26	320.69	1.43	4.87	0.10	0.10	0.033
Ovest	1524	Max WS	0.49	319.20	320.69	1.49	4.91	0.10	0.10	0.031
Ovest	1514	Max WS	0.50	319.15	320.69	1.54	5.24	0.09	0.09	0.029
Ovest	1494	Max WS	0.50	319.12	320.69	1.57	5.56	0.09	0.09	0.027
Ovest	1388	Max WS	0.54	319.02	320.69	1.67	4.96	0.10	0.10	0.028
Ovest	1300	Max WS	0.57	318.93	320.69	1.76	5.08	0.09	0.09	0.027
Ovest	1253	Max WS	0.58	318.87	320.69	1.82	5.27	0.09	0.09	0.026
Ovest	1245	Max WS	0.58	318.86	320.69	1.83	76.88	0.00	0.00	0.001
Ovest	1238	Max WS	0.59	318.83	320.69	1.86	68.42	0.01	0.01	0.001
Ovest	1236	Max WS	0.59	318.82	320.69	1.87	66.35	0.01	0.01	0.001
Ovest	1226	Max WS	0.59	318.79	320.69	1.90	61.53	0.01	0.01	0.001
Ovest	1164	Max WS	0.61	318.64	320.69	2.05	38.00	0.01	0.01	0.002
Ovest	1162		Inl Struct							
Ovest	1159	Max WS	0.22	318.63	319.98	1.35	6.85	0.03	0.03	0.008
Ovest	1158	Max WS	0.22	318.62	319.98	1.36	6.16	0.03	0.03	0.008
Ovest	1150		Bridge							
Ovest	1139	Max WS	0.22	318.54	319.98	1.44	6.03	0.03	0.03	0.008
Ovest	1130	Max WS	0.22	318.52	319.97	1.45	4.58	0.05	0.05	0.015
Ovest	1110	Max WS	1.28	318.47	319.97	1.50	5.49	0.23	0.23	0.075
Ovest	1070	Max WS	3.25	318.39	319.93	1.54	4.75	0.65	0.65	0.200
Ovest	1039	Max WS	4.87	318.33	319.86	1.53	4.38	1.03	1.03	0.317
Ovest	998	Max WS	6.91	318.28	319.71	1.43	4.49	1.54	1.54	0.492
Ovest	949	Max WS	9.05	318.20	319.34	1.14	4.04	2.71	2.71	0.954
Ovest	945	Max WS	9.17	318.19	319.33	1.14	4.07	2.74	2.74	0.968
Ovest	937	Max WS	8.81	318.17	319.30	1.13	4.05	2.68	2.68	0.948
Ovest	933	Max WS	8.62	318.04	319.29	1.25	4.12	2.34	2.34	0.788
Ovest	932		Inl Struct							
Ovest	931	Max WS	11.47	317.54	318.76	1.22	3.13	4.30	4.30	1.489
Ovest	907	Max WS	11.19	317.29	318.61	1.32	4.46	2.74	2.74	0.912
Ovest	906		Inl Struct							
Ovest	905	Max WS	10.44	316.69	317.79	1.10	3.10	3.88	3.88	1.331
Ovest	873	Max WS	9.63	316.32	317.61	1.29	3.29	3.05	3.05	0.994
Ovest	872	Max WS	7.05	316.31	317.64	1.33	30.87	0.19	0.19	0.057
Ovest	848	Max WS	7.54	316.30	317.64	1.34	58.64	0.11	0.11	0.032
Ovest	829.67	Max WS	7.50	316.29	317.64	1.35	56.93	0.11	0.11	0.031
Ovest	815	Max WS	7.48	316.29	317.64	1.35	81.58	0.07	0.07	0.022
Ovest	781	Max WS	7.58	316.28	317.64	1.36	146.83	0.04	0.04	0.012
Ovest	731	Max WS	7.28	316.15	317.64	1.49	120.63	0.04	0.04	0.012
Ovest	714	Max WS	7.27	316.10	317.64	1.54	113.85	0.05	0.05	0.012
Ovest	713		Inl Struct							
Ovest	696	Max WS	7.27	316.06	317.42	1.36	5.12	1.18	1.18	0.341
Ovest	690	Max WS	7.27	316.05	317.39	1.34	7.79	1.34	1.35	0.374
Ovest	686	Max WS	7.27	316.04	317.33	1.29	7.97	1.77	1.97	0.657
Ovest	681	Max WS	7.27	316.03	317.37	1.34	7.16	1.40	1.55	0.489
Ovest	675		Bridge							
Ovest	666	Max WS	7.27	315.99	316.79	0.80	2.00	4.53	4.53	1.614
Ovest	661	Max WS	7.27	315.91	316.78	0.87	2.00	4.20	4.20	1.440
Ovest	647	Max WS	7.27	315.76	316.60	0.84	27.22	1.89	3.34	1.165
Ovest	623	Max WS	7.28	315.56	316.47	0.91	2.00	3.98	3.98	1.329
Ovest	579	Max WS	7.30	315.19	316.07	0.88	2.00	4.15	4.15	1.415
Ovest	543	Max WS	7.32	314.89	315.67	0.79	2.00	4.66	4.66	1.679
Ovest	479	Max WS	7.33	314.35	315.07	0.71	7.78	3.85	4.69	1.775

HEC-RAS Plan: Plan_w5_13_1000 Profile: Max WS (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Top Width	Vel Total	Vel Chnl	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/s)	(m/s)	
Ovest	451	Max WS	7.35	314.11	314.91	0.80	13.92	1.96	3.19	1.143
Ovest	404	Max WS	7.37	313.72	314.53	0.82	2.00	4.52	4.52	1.598
Ovest	365	Max WS	7.39	313.39	314.19	0.80	2.00	4.60	4.60	1.638
Ovest	335	Max WS	7.39	313.14	313.92	0.78	2.00	4.76	4.76	1.723
Ovest	296	Max WS	7.41	312.70	313.52	0.82	1.80	4.99	4.99	1.755
Ovest	242	Max WS	7.43	312.07	312.96	0.89	1.80	4.61	4.61	1.558
Ovest	217	Max WS	7.45	311.78	312.64	0.86	1.80	4.82	4.82	1.660
Ovest	199	Max WS	7.45	311.57	312.44	0.86	1.80	4.80	4.80	1.650
Ovest	163	Max WS	7.47	311.17	312.03	0.86	1.80	4.80	4.80	1.651
Ovest	129	Max WS	7.49	310.78	311.64	0.86	1.80	4.82	4.82	1.659
Ovest	98	Max WS	7.50	310.42	311.36	0.94	1.80	4.42	4.42	1.454
Ovest	67	Max WS	7.51	310.06	310.94	0.88	1.80	4.75	4.75	1.619
Ovest	42	Max WS	7.53	309.77	310.53	0.77	1.80	5.45	5.45	1.989
Ovest	19	Max WS	7.54	309.40	310.04	0.64	1.80	6.55	6.55	2.617
Ovest	10	Max WS	7.54	309.17	309.64	0.47	7.44	3.95	3.95	2.491
Ovest	4	Max WS	7.54	309.11	309.56	0.45	15.51	1.71	1.71	1.023
Nord	1109	Max WS	7.69	319.80	320.57	0.77	6.02	2.76	2.76	1.299
Nord	1070	Max WS	7.63	318.76	320.15	1.40	6.65	1.49	1.49	0.540
Nord	1032	Max WS	7.62	318.76	319.91	1.15	27.37	1.60	1.84	1.109
Nord	986	Max WS	7.66	318.50	319.66	1.15	4.33	2.81	2.81	1.129
Nord	959	Max WS	7.15	318.52	319.53	1.02	46.11	0.86	1.19	0.722
Nord	853	Max WS	7.38	318.29	319.18	0.89	16.42	1.17	1.17	0.604
Nord	801	Max WS	7.38	318.26	318.96	0.70	9.92	2.17	2.17	1.181
Nord	782	Max WS	7.40	318.05	318.84	0.79	19.32	1.53	1.82	1.016

POST OPERAM

VERIFICA DEI FRANCHI

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica	
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB
Ovest	2164	Max WS	3.7	323.6	323.37	0.23	323.85	0.25	323.63	0.03	0.85		CANALE	0.018	0.23	0.42	0.42	NO	NO
Ovest	2086	Max WS	3.68	323.2	323.02	0.18	323.48	0.28	323.16	-0.04	0.82		CANALE	0.017	0.18	0.37	0.37	NO	NO
Ovest	1999	Max WS	3.67	322.53	322.33	0.2	322.81	0.27	322.86	0.33	0.77		CANALE	0.015	0.20	0.39	0.39	NO	NO
Ovest	1930	Max WS	3.66	322.12	321.93	0.19	321.97	-0.15	323.07	0.94	0.70		CANALE	0.012	0.19	0.38	0.38	NO	OK
Ovest	1831	Max WS	0.65	321.66	321.29	0.37	321.65	-0.02	321.88	0.22	0.03		CANALE	2.29E-05	0.37	0.00	0.37	NO	NO
Ovest	1804	Max WS	0.65	321.66	321.26	0.4	322.2	0.54	322.24	0.57	0.01		CANALE	2.55E-06	0.40	0.00	0.40	OK	OK
Ovest	1779	Max WS	0.64	321.66	321.33	0.33	321.79	0.13	322.15	0.49	0.02		CANALE	1.02E-05	0.33	0.00	0.33	NO	OK
Ovest	1758	Max WS	0.64	321.66	321.24	0.42	322.09	0.42	321.99	0.33	0.01		CANALE	2.55E-06	0.42	0.00	0.42	OK	NO
Ovest	1748	Max WS	0.64	321.66	321.15	0.51	322.12	0.46	321.68	0.01	0.02		CANALE	1.02E-05	0.51	0.00	0.51	NO	NO
Ovest	1744	Max WS	0.65	321.66	321.05	0.61	321.49	-0.18	321.84	0.18	0.02		CANALE	1.02E-05	0.61	0.00	0.61	NO	NO
Ovest	1741	Max WS	0.64	321.66	321.01	0.65	321.58	-0.08	321.7	0.04	0.02		CANALE	1.02E-05	0.65	0.00	0.65	NO	NO
Ovest	1740		Culvert										Attr. SS131						
Ovest	1703	Max WS	0.64	321.03	320.86	0.17	322.11	1.08	322.11	1.08	1.22		CANALE	0.038	0.17	0.36	0.36	OK	OK
Ovest	1660	Max WS	0.64	320.79	320.62	0.17	321.87	1.08	321.87	1.08	1.22		CANALE	0.038	0.17	0.36	0.36	OK	OK
Ovest	1627	Max WS	0.64	320.59	320.45	0.14	321.75	1.16	321.75	1.16	1.52		CANALE	0.059	0.14	0.33	0.33	OK	OK
Ovest	1602	Max WS	0.65	320.33	320.17	0.16	321.51	1.18	321.51	1.18	1.27		CANALE	0.041	0.16	0.35	0.35	OK	OK
Ovest	1587	Max WS	0.66	320.23	320	0.23	321.45	1.22	321.45	1.22	2.28		CANALE	0.132	0.23	0.42	0.42	OK	OK
Ovest	1571	Max WS	0.37	320.07	319.8	0.27	321.45	1.38	321.45	1.38	1.07		CANALE	0.029	0.27	0.45	0.45	OK	OK
Ovest	1539	Max WS	0.39	320.1	319.36	0.74	321.43	1.33	321.43	1.33	0.34		CANALE	0.003	0.50	0.75	0.75	OK	OK
Ovest	1529	Max WS	0.4	320.1	319.26	0.84	321.27	1.17	321.08	0.98	0.17		CANALE	7.36E-04	0.50	0.80	0.80	OK	OK
Ovest	1524	Max WS	0.4	320.1	319.2	0.9	321.21	1.1	321.19	1.09	0.16		CANALE	6.52E-04	0.50	0.83	0.83	OK	OK
Ovest	1514	Max WS	0.4	320.1	319.15	0.95	321.32	1.22	321.34	1.23	0.15		CANALE	5.73E-04	0.50	0.85	0.85	OK	OK
Ovest	1494	Max WS	0.41	320.1	319.12	0.98	321.24	1.14	321.21	1.11	0.14		CANALE	4.99E-04	0.50	0.86	0.86	OK	OK
Ovest	1388	Max WS	0.44	320.1	319.02	1.08	321.15	1.05	321.15	1.05	0.15		CANALE	5.73E-04	0.50	0.90	0.90	OK	OK
Ovest	1300	Max WS	0.47	320.1	318.93	1.17	321.15	1.05	321.15	1.05	0.14		CANALE	4.99E-04	0.50	0.94	0.94	OK	OK
Ovest	1253	Max WS	0.49	320.1	318.87	1.23	321.15	1.05	321.15	1.05	0.13	CASSA B		4.31E-04	0.50	0.96	0.96	OK	OK
Ovest	1245	Max WS	0.49	320.1	318.86	1.24	321.04	0.94	323.73	3.63	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1238	Max WS	0.5	320.1	318.83	1.27	321.04	0.94	323.69	3.59	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1236	Max WS	0.5	320.1	318.82	1.28	321.15	1.05	321.15	1.05	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1226	Max WS	0.5	320.1	318.79	1.31	321.15	1.05	321.48	1.37	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1164	Max WS	0.51	320.1	318.64	1.46	321.42	1.32	322.25	2.15	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1162		Inl Struct										SOGLIA B						
Ovest	1159	Max WS	0.25	319.48	318.63	0.85	321.39	1.91	321.39	1.91	0.05	CANALE		6.37E-05	0.50	0.00	0.50	OK	OK
Ovest	1158	Max WS	0.25	319.48	318.62	0.86	321.47	1.99	321.47	1.99	0.05	CANALE		6.37E-05	0.50	0.00	0.50	OK	OK
Ovest	1150		Bridge										ATTR. V. Oristano						
Ovest	1139	Max WS	0.25	319.48	318.54	0.94	320.87	1.39	320.93	1.45	0.05		CANALE	6.37E-05	0.50	0.00	0.50	OK	OK
Ovest	1130	Max WS	0.25	319.48	318.52	0.96	320.55	1.07	320.55	1.07	0.10		CANALE	2.55E-04	0.50	0.00	0.50	OK	OK
Ovest	1110	Max WS	0.78	319.47	318.47	1	320.54	1.07	320.54	1.07	0.26		CANALE	1.72E-03	0.50	0.87	0.87	OK	OK
Ovest	1070	Max WS	1.8	319.44	318.39	1.05	320.49	1.05	320.49	1.05	0.61		CANALE	9.48E-03	0.50	0.89	0.89	OK	OK
Ovest	1039	Max WS	2.61	319.38	318.33	1.05	320.46	1.08	320.46	1.08	0.92		CANALE	2.16E-02	0.50	0.89	0.89	OK	OK
Ovest	998	Max WS	3.64	319.26	318.28	0.98	320.19	0.93	320.19	0.93	1.37		CANALE	4.78E-02	0.50	0.86	0.86	OK	OK
Ovest	949	Max WS	4.76	318.96	318.2	0.76	320.03	1.07	320.03	1.07	2.45		CANALE	1.53E-01	0.50	0.76	0.76	OK	OK
Ovest	945	Max WS	4.85	318.95	318.19	0.76	319.99	1.04	319.99	1.04	2.50		CANALE	1.59E-01	0.50	0.76	0.76	OK	OK
Ovest	937	Max WS	4.43	318.92	318.17	0.75	319.97	1.05	319.97	1.05	2.31		CANALE	1.36E-01	0.50	0.75	0.75	OK	OK
Ovest	933	Max WS	5	318.93	318.04	0.89	319.98	1.05	319.98	1.05	2.13	CANALE		1.16E-01	0.50	0.82	0.82	OK	OK
Ovest	932		Inl Struct										SALTO						
Ovest	931	Max WS	6.01	318.37	317.54	0.83	319.98	1.61	319.98	1.61	3.76	CANALE		0.360	0.50	0.79	0.79	OK	OK
Ovest	907	Max WS	5.26	318.22	317.29	0.93	319.44	1.22	319.44	1.22	2.12	CANALE		0.115	0.50	0.84	0.84	OK	OK
Ovest	906		Inl Struct										SALTO						

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica	
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB
Ovest	905	Max WS	6.84	317.43	316.69	0.74	319.44	2.01	319.34	1.91	4.13	CANALE		4.3E-01	0.50	0.75	0.75	OK	OK
Ovest	873	Max WS	3.56	317	316.32	0.68	319	2	319	2	2.55	CANALE		1.7E-01	0.50	0.72	0.72	OK	OK
Ovest	872	Max WS	3.21	317	316.31	0.69	318.8	1.8	319.18	2.18	0.19	CASSA A		9.2E-04	0.50	0.72	0.72	OK	OK
Ovest	848	Max WS	3.13	317	316.3	0.7	318.68	1.68	318.95	1.95	0.10	CASSA A		2.5E-04	0.50	0.00	0.50	OK	OK
Ovest	829.67	Max WS	3.1	317	316.29	0.71	318.85	1.85	318.94	1.94	0.09	CASSA A		2.1E-04	0.50	0.00	0.50	OK	OK
Ovest	815	Max WS	3.05	317	316.29	0.71	319	2	318.94	1.94	0.06	CASSA A		9.2E-05	0.50	0.00	0.50	OK	OK
Ovest	781	Max WS	3.08	317	316.28	0.72	318.48	1.48	318.64	1.64	0.03	CASSA A		2.3E-05	0.50	0.00	0.50	OK	OK
Ovest	731	Max WS	3.17	317	316.15	0.85	318.13	1.13	318.16	1.16	0.04	CASSA A		4.1E-05	0.50	0.00	0.50	OK	OK
Ovest	714	Max WS	3.12	317	316.1	0.9	318.1	1.1	318.07	1.07	0.04	CASSA A		4.1E-05	0.50	0.00	0.50	OK	OK
Ovest	713		Inl Struct									SOGLIA A							
Ovest	696	Max WS	3.12	316.93	316.06	0.87	317.88	0.95	317.87	0.94	0.82		CANALE	1.7E-02	0.50	0.81	0.81	OK	OK
Ovest	690	Max WS	3.12	316.92	316.05	0.87	317.37	0.45	317.37	0.45	0.89		CANALE	2.0E-02	0.50	0.81	0.81	NO	NO
Ovest	686	Max WS	3.12	316.83	316.04	0.79	317.02	0.19	317.01	0.18	1.78		CANALE	8.1E-02	0.50	0.77	0.77	NO	NO
Ovest	681	Max WS	3.12	316.89	316.03	0.86	317	0.11	316.96	0.07	1.29		CANALE	4.2E-02	0.50	0.81	0.81	NO	NO
Ovest	675		Bridge										Attr. FF.SS.						
Ovest	666	Max WS	3.12	316.43	315.99	0.44	317.56	1.13	317.29	0.85	3.52		CANALE	0.316	0.44	0.58	0.58	OK	OK
Ovest	661	Max WS	3.12	316.41	315.91	0.5	317.46	1.05	317.46	1.05	3.10		Tombato	0.343	0.50	0.62	0.62	OK	OK
Ovest	647	Max WS	3.13	316.26	315.76	0.5	317.31	1.05	317.31	1.05	3.13		Tombato	0.350	0.50	0.62	0.62	OK	OK
Ovest	623	Max WS	3.14	316.09	315.56	0.53	317.11	1.02	317.11	1.02	2.96		Tombato	0.313	0.50	0.63	0.63	OK	OK
Ovest	579	Max WS	3.16	315.7	315.19	0.51	316.74	1.05	316.74	1.05	3.14		Tombato	0.352	0.50	0.62	0.62	OK	OK
Ovest	543	Max WS	3.18	315.34	314.89	0.45	316.44	1.1	316.44	1.1	3.52		Tombato	0.442	0.45	0.58	0.58	OK	OK
Ovest	479	Max WS	3.21	314.79	314.35	0.44	315.81	1.02	315.76	0.97	3.68		Tombato	0.483	0.44	0.58	0.58	OK	OK
Ovest	451	Max WS	3.23	314.57	314.11	0.46	315.6	1.03	315.6	1.03	3.52		Tombato	0.442	0.46	0.59	0.59	OK	OK
Ovest	404	Max WS	3.25	314.18	313.72	0.46	315.36	1.18	315.35	1.18	3.54		Tombato	0.447	0.46	0.59	0.59	OK	OK
Ovest	365	Max WS	3.27	313.84	313.39	0.45	315.51	1.67	315.51	1.67	3.59		Tombato	0.460	0.45	0.58	0.58	OK	OK
Ovest	335	Max WS	3.27	313.57	313.14	0.43	315.2	1.64	315.15	1.58	3.83		Tombato	0.523	0.43	0.57	0.57	OK	OK
Ovest	296	Max WS	3.29	313.15	312.7	0.45	314.58	1.43	314.68	1.53	4.01		Tombato	0.574	0.45	0.58	0.58	OK	OK
Ovest	242	Max WS	3.31	312.57	312.07	0.5	314	1.43	314.08	1.51	3.67		Tombato	0.481	0.50	0.62	0.62	OK	OK
Ovest	217	Max WS	3.32	312.25	311.78	0.47	313.92	1.67	313.88	1.63	3.90		Tombato	0.543	0.47	0.60	0.60	OK	OK
Ovest	199	Max WS	3.33	312.05	311.57	0.48	313.99	1.94	313.97	1.92	3.89		Tombato	0.540	0.48	0.60	0.60	OK	OK
Ovest	163	Max WS	3.35	311.64	311.17	0.47	314.01	2.36	314.08	2.43	3.90		Tombato	0.543	0.47	0.60	0.60	OK	OK
Ovest	129	Max WS	3.37	311.24	310.78	0.46	314.09	2.85	314.09	2.85	3.99		Tombato	0.568	0.46	0.59	0.59	OK	OK
Ovest	98	Max WS	3.38	310.96	310.42	0.54	312.72	1.76	312.72	1.76	3.48		Tombato	0.432	0.50	0.64	0.64	OK	OK
Ovest	67	Max WS	3.39	310.57	310.06	0.51	312.16	1.59	312.2	1.63	3.72		Tombato	0.494	0.50	0.62	0.62	OK	OK
Ovest	42	Max WS	3.41	310.21	309.77	0.44	312.07	1.86	311.75	1.54	4.27		Tombato	0.651	0.44	0.58	0.65	OK	OK
Ovest	19	Max WS	3.42	309.81	309.4	0.41	311.5	1.69	311.5	1.69	4.65		Tombato	0.771	0.41	0.56	0.77	OK	OK
Ovest	10	Max WS	3.42	309.51	309.17	0.34	310.21	0.7	311.48	1.97	3.21		Tombato	0.368	0.34	0.51	0.51	OK	OK
Ovest	4	Max WS	3.42	309.43	309.11	0.32	310.06	0.63	311.97	2.54	1.31		Tombato	0.061	0.32	0.49	0.49	OK	OK

BRIDGES																		
Reach	River Sta	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	ROB Elev	Vel Tot	Weir Low	W. Freeb	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m/s)	(m)	(m)							
Ovest	1158	Max WS	0.25	319.48	318.62	0.86	321.47	321.47	0.05			CANALE						
Ovest	1150 BRU	Max WS	0.25	319.48	318.62	0.86	318.62	318.62	0.06	321.62	2.14		Attravers	0.000	1.50	0.81	1.50	OK
Ovest	1150 BRD	Max WS	0.25	319.48	318.54	0.94	318.62	318.62	0.05	321.62	2.14		Attravers	0.000	1.50	0.84	1.50	OK
Ovest	1139	Max WS	0.25	319.48	318.54	0.94	320.87	320.93	0.05				CANALE					
Ovest	681	Max WS	3.12	316.89	316.03	0.86	317	316.96	1.29				CANALE					
Ovest	675 BRU	Max WS	3.12	317.09	316.03	1.06	317	316.67	0.99	317.98	0.89		Attravers	0.040	1.50	0.90	1.50	NO
Ovest	675 BRD	Max WS	3.12	317.06	315.99	1.07	316.85	316.86	1.2	317.98	0.92		Attravers	0.059	1.50	0.90	1.50	NO
Ovest	666	Max WS	3.12	316.43	315.99	0.44	317.56	317.29	3.52				CANALE					
Legenda																		
Weir Low		Quota impalcato (m s.l.m.m.)																
W. Freeb		Franco idraulico dell'attraversamento (m)																

CULVERTS													
Reach	River Sta	Profile	Q Culv	Culv WS In	Culv Inv El Up	Diff	Culv Vel US	Freeb US	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m/s)	(m)					
Ovest	1740 Culvert	Max WS	0.64	321.47	320.96	0.51	1.61	0.49	0.106	0.50	0.62	0.62	NO
		Diametro		Culv WS Out	Culv Inv El Dn	Diff	Culv Vel DS	Freeb DS	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
		(m)		(m)	(m)	(m)	(m/s)	(m)					
		1.00		321.31	320.86	0.45	1.85	0.55	0.140	0.50	0.58	0.58	NO

Legenda

Culv WS In	Quota livello idrico all'imbocco (m s.l.m.m.)
Culv Inv El Up	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel US	Velocità all'imbocco (m/s)
Freeb US	Franco idraulico dell'attraversamento (m)

Culv WS Out	Quota livello idrico allo sbocco (m s.l.m.m.)
Culv Inv El Dn	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel DS	Velocità all'imbocco (m/s)
Freeb DS	Franco idraulico dell'attraversamento (m)

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica	
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB
Ovest	2164	Max WS	4.7	323.62	323.37	0.25	323.85	0.23	323.63	0.01	0.91		CANALE	0.021	0.25	0.44	0.44	NO	NO
Ovest	2086	Max WS	4.67	323.22	323.02	0.2	323.48	0.27	323.16	-0.06	0.88		CANALE	0.020	0.20	0.39	0.39	NO	NO
Ovest	1999	Max WS	4.66	322.55	322.33	0.22	322.81	0.26	322.86	0.31	0.81		CANALE	0.017	0.22	0.41	0.41	NO	NO
Ovest	1930	Max WS	4.66	322.14	321.93	0.21	321.97	-0.17	323.07	0.93	0.76		CANALE	0.015	0.21	0.40	0.40	NO	OK
Ovest	1831	Max WS	0.67	321.7	321.29	0.41	321.65	-0.05	321.88	0.19	0.03		CANALE	2.29E-05	0.41	0.00	0.41	NO	NO
Ovest	1804	Max WS	0.68	321.7	321.26	0.44	322.2	0.5	322.24	0.54	0.01		CANALE	2.55E-06	0.44	0.00	0.44	OK	OK
Ovest	1779	Max WS	0.71	321.7	321.33	0.37	321.79	0.09	322.15	0.45	0.01		CANALE	2.55E-06	0.37	0.00	0.37	NO	OK
Ovest	1758	Max WS	0.71	321.7	321.24	0.46	322.09	0.39	321.99	0.29	0.01		CANALE	2.55E-06	0.46	0.00	0.46	NO	NO
Ovest	1748	Max WS	0.7	321.7	321.15	0.55	322.12	0.42	321.68	-0.02	0.01		CANALE	2.55E-06	0.55	0.00	0.55	NO	NO
Ovest	1744	Max WS	0.7	321.7	321.05	0.65	321.49	-0.21	321.84	0.14	0.02		CANALE	1.02E-05	0.65	0.00	0.65	NO	NO
Ovest	1741	Max WS	0.7	321.7	321.01	0.69	321.58	-0.12	321.7	0	0.02		CANALE	1.02E-05	0.69	0.00	0.69	NO	NO
Ovest	1740		Culvert										Attr. SS131						
Ovest	1703	Max WS	0.7	321.04	320.86	0.18	322.11	1.07	322.11	1.07	1.26		CANALE	0.040	0.18	0.37	0.37	OK	OK
Ovest	1660	Max WS	0.7	320.8	320.62	0.18	321.87	1.07	321.87	1.07	1.26		CANALE	0.040	0.18	0.37	0.37	OK	OK
Ovest	1627	Max WS	0.7	320.59	320.45	0.14	321.75	1.16	321.75	1.16	1.58		CANALE	0.064	0.14	0.33	0.33	OK	OK
Ovest	1602	Max WS	0.71	320.34	320.17	0.17	321.51	1.17	321.51	1.17	1.29		CANALE	0.042	0.17	0.36	0.36	OK	OK
Ovest	1587	Max WS	0.71	320.24	320	0.24	321.45	1.21	321.45	1.21	2.34		CANALE	0.140	0.24	0.43	0.43	OK	OK
Ovest	1571	Max WS	0.4	320.22	319.8	0.42	321.45	1.23	321.45	1.23	0.67		CANALE	0.011	0.42	0.56	0.56	OK	OK
Ovest	1539	Max WS	0.42	320.23	319.36	0.87	321.43	1.2	321.43	1.2	0.29		CANALE	0.002	0.50	0.81	0.81	OK	OK
Ovest	1529	Max WS	0.42	320.23	319.26	0.97	321.27	1.04	321.08	0.85	0.15		CANALE	5.73E-04	0.50	0.86	0.86	OK	NO
Ovest	1524	Max WS	0.42	320.23	319.2	1.03	321.21	0.98	321.19	0.96	0.14		CANALE	4.99E-04	0.50	0.88	0.88	OK	OK
Ovest	1514	Max WS	0.42	320.23	319.15	1.08	321.32	1.09	321.34	1.11	0.13		CANALE	4.31E-04	0.50	0.90	0.90	OK	OK
Ovest	1494	Max WS	0.43	320.23	319.12	1.11	321.24	1.01	321.21	0.98	0.12		CANALE	3.67E-04	0.50	0.92	0.92	OK	OK
Ovest	1388	Max WS	0.46	320.23	319.02	1.21	321.15	0.92	321.15	0.92	0.13		CANALE	4.31E-04	0.50	0.96	0.96	NO	NO
Ovest	1300	Max WS	0.49	320.23	318.93	1.3	321.15	0.92	321.15	0.92	0.13		CANALE	4.31E-04	0.50	0.99	0.99	NO	NO
Ovest	1253	Max WS	0.51	320.23	318.87	1.36	321.15	0.92	321.15	0.92	0.10	CASSA B		2.55E-04	0.50	0.00	0.50	OK	OK
Ovest	1245	Max WS	0.51	320.23	318.86	1.37	321.04	0.81	323.73	3.5	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1238	Max WS	0.51	320.23	318.83	1.4	321.04	0.81	323.69	3.46	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1236	Max WS	0.51	320.23	318.82	1.41	321.15	0.92	321.15	0.92	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1226	Max WS	0.52	320.23	318.79	1.44	321.15	0.92	321.48	1.25	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1164	Max WS	0.54	320.23	318.64	1.59	321.42	1.19	322.25	2.02	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1162		Inl Struct										SOGLIA B						
Ovest	1159	Max WS	0.25	319.58	318.63	0.95	321.39	1.81	321.39	1.81	0.05	CANALE		6.37E-05	0.50	0.00	0.50	OK	OK
Ovest	1158	Max WS	0.25	319.58	318.62	0.96	321.47	1.89	321.47	1.89	0.05	CANALE		6.37E-05	0.50	0.00	0.50	OK	OK
Ovest	1150		Bridge										ATTR. V. Oristano						
Ovest	1139	Max WS	0.25	319.58	318.54	1.04	320.87	1.3	320.93	1.35	0.04		CANALE	4.08E-05	0.50	0.00	0.50	OK	OK
Ovest	1130	Max WS	0.25	319.58	318.52	1.06	320.55	0.97	320.55	0.97	0.08		CANALE	1.63E-04	0.50	0.00	0.50	OK	OK
Ovest	1110	Max WS	0.88	319.57	318.47	1.1	320.54	0.97	320.54	0.97	0.25		CANALE	1.59E-03	0.50	0.91	0.91	OK	OK
Ovest	1070	Max WS	2.07	319.53	318.39	1.14	320.49	0.96	320.49	0.96	0.63		CANALE	1.01E-02	0.50	0.93	0.93	OK	OK
Ovest	1039	Max WS	3.03	319.47	318.33	1.14	320.46	0.99	320.46	0.99	0.96		CANALE	2.35E-02	0.50	0.93	0.93	OK	OK
Ovest	998	Max WS	4.25	319.34	318.28	1.06	320.19	0.85	320.19	0.85	1.43		CANALE	5.21E-02	0.50	0.90	0.90	NO	NO
Ovest	949	Max WS	5.55	319.03	318.2	0.83	320.03	1	320.03	1	2.56		CANALE	1.67E-01	0.50	0.79	0.79	OK	OK
Ovest	945	Max WS	5.65	319.02	318.19	0.83	319.99	0.97	319.99	0.97	2.61		CANALE	1.74E-01	0.50	0.79	0.79	OK	OK
Ovest	937	Max WS	5.16	318.99	318.17	0.82	319.97	0.98	319.97	0.98	2.40		CANALE	1.47E-01	0.50	0.79	0.79	OK	OK
Ovest	933	Max WS	5.71	318.99	318.04	0.95	319.98	0.99	319.98	0.99	2.25	CANALE		1.29E-01	0.50	0.85	0.85	OK	OK
Ovest	932		Inl Struct										SALTO						
Ovest	931	Max WS	6.91	318.45	317.54	0.91	319.98	1.53	319.98	1.53	3.86	CANALE		0.380	0.50	0.83	0.83	OK	OK
Ovest	907	Max WS	6.32	318.3	317.29	1.01	319.44	1.14	319.44	1.14	2.26	CANALE		0.130	0.50	0.87	0.87	OK	OK
Ovest	906		Inl Struct										SALTO						

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica	
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB
Ovest	905	Max WS	8.03	317.5	316.69	0.81	319.44	1.94	319.44	1.94	4.38	CANALE		4.9E-01	0.50	0.78	0.78	OK	OK
Ovest	873	Max WS	3.54	317.12	316.32	0.8	319	1.88	319	1.88	2.08	CANALE		1.1E-01	0.50	0.78	0.78	OK	OK
Ovest	872	Max WS	4.06	317.13	316.31	0.82	318.8	1.67	319.18	2.05	0.20	CASSA A		1.0E-03	0.50	0.79	0.79	OK	OK
Ovest	848	Max WS	3.68	317.13	316.3	0.83	318.68	1.55	318.95	1.82	0.09	CASSA A		2.1E-04	0.50	0.00	0.50	OK	OK
Ovest	829.67	Max WS	3.66	317.13	316.29	0.84	318.85	1.73	318.94	1.81	0.09	CASSA A		2.1E-04	0.50	0.00	0.50	OK	OK
Ovest	815	Max WS	3.6	317.13	316.29	0.84	319	1.87	318.94	1.81	0.06	CASSA A		9.2E-05	0.50	0.00	0.50	OK	OK
Ovest	781	Max WS	3.64	317.13	316.28	0.85	318.48	1.35	318.64	1.51	0.03	CASSA A		2.3E-05	0.50	0.00	0.50	OK	OK
Ovest	731	Max WS	3.55	317.13	316.15	0.98	318.13	1	318.16	1.03	0.03	CASSA A		2.3E-05	0.50	0.00	0.50	OK	OK
Ovest	714	Max WS	3.54	317.13	316.1	1.03	318.1	0.97	318.07	0.94	0.03	CASSA A		2.3E-05	0.50	0.00	0.50	OK	OK
Ovest	713		Inl Struct									SOGLIA A							
Ovest	696	Max WS	3.54	317.02	316.06	0.96	317.88	0.86	317.87	0.85	0.84		CANALE	1.8E-02	0.50	0.85	0.85	OK	OK
Ovest	690	Max WS	3.54	317.01	316.05	0.96	317.37	0.36	317.37	0.36	0.92		CANALE	2.2E-02	0.50	0.85	0.85	NO	NO
Ovest	686	Max WS	3.54	316.91	316.04	0.87	317.02	0.11	317.01	0.1	1.75		CANALE	7.8E-02	0.50	0.81	0.81	NO	NO
Ovest	681	Max WS	3.54	316.97	316.03	0.94	317	0.02	316.96	-0.01	1.27		CANALE	4.1E-02	0.50	0.84	0.84	NO	NO
Ovest	675		Bridge										Attr. FF.SS.						
Ovest	666	Max WS	3.54	316.48	315.99	0.49	317.56	1.08	317.29	0.81	3.63		CANALE	0.336	0.49	0.61	0.61	OK	OK
Ovest	661	Max WS	3.54	316.46	315.91	0.55	317.46	1	317.46	1	3.23		Tombato	0.372	0.50	0.65	0.65	OK	OK
Ovest	647	Max WS	3.55	316.31	315.76	0.55	317.31	1.01	317.31	1.01	3.26		Tombato	0.379	0.50	0.65	0.65	OK	OK
Ovest	623	Max WS	3.56	316.14	315.56	0.58	317.11	0.97	317.11	0.97	3.08		Tombato	0.338	0.50	0.66	0.66	OK	OK
Ovest	579	Max WS	3.58	315.74	315.19	0.55	316.74	1	316.74	1	3.27		Tombato	0.382	0.50	0.65	0.65	OK	OK
Ovest	543	Max WS	3.6	315.38	314.89	0.49	316.44	1.06	316.44	1.06	3.66		Tombato	0.478	0.49	0.61	0.61	OK	OK
Ovest	479	Max WS	3.63	314.82	314.35	0.47	315.81	0.99	315.76	0.94	3.89		Tombato	0.540	0.47	0.60	0.60	OK	OK
Ovest	451	Max WS	3.65	314.61	314.11	0.5	315.6	0.99	315.6	0.99	3.66		Tombato	0.478	0.50	0.62	0.62	OK	OK
Ovest	404	Max WS	3.67	314.22	313.72	0.5	315.36	1.14	315.35	1.14	3.68		Tombato	0.483	0.50	0.62	0.62	OK	OK
Ovest	365	Max WS	3.69	313.88	313.39	0.49	315.51	1.63	315.51	1.63	3.73		Tombato	0.496	0.49	0.61	0.61	OK	OK
Ovest	335	Max WS	3.69	313.61	313.14	0.47	315.2	1.6	315.15	1.54	3.96		Tombato	0.559	0.47	0.60	0.60	OK	OK
Ovest	296	Max WS	3.71	313.19	312.7	0.49	314.58	1.39	314.68	1.49	4.15		Tombato	0.614	0.49	0.61	0.61	OK	OK
Ovest	242	Max WS	3.73	312.61	312.07	0.54	314	1.39	314.08	1.46	3.80		Tombato	0.515	0.50	0.64	0.64	OK	OK
Ovest	217	Max WS	3.74	312.29	311.78	0.51	313.92	1.63	313.88	1.59	4.04		Tombato	0.582	0.50	0.62	0.62	OK	OK
Ovest	199	Max WS	3.75	312.09	311.57	0.52	313.99	1.89	313.97	1.87	4.02		Tombato	0.577	0.50	0.63	0.63	OK	OK
Ovest	163	Max WS	3.77	311.68	311.17	0.51	314.01	2.32	314.08	2.39	4.03		Tombato	0.579	0.50	0.62	0.62	OK	OK
Ovest	129	Max WS	3.78	311.29	310.78	0.51	314.09	2.81	314.09	2.81	4.11		Tombato	0.603	0.50	0.62	0.62	OK	OK
Ovest	98	Max WS	3.8	311	310.42	0.58	312.72	1.71	312.72	1.71	3.61		Tombato	0.465	0.50	0.66	0.66	OK	OK
Ovest	67	Max WS	3.81	310.61	310.06	0.55	312.16	1.55	312.2	1.59	3.86		Tombato	0.532	0.50	0.65	0.65	OK	OK
Ovest	42	Max WS	3.83	310.25	309.77	0.48	312.07	1.82	311.75	1.5	4.42		Tombato	0.697	0.48	0.60	0.70	OK	OK
Ovest	19	Max WS	3.84	309.84	309.4	0.44	311.5	1.66	311.5	1.66	4.89		Tombato	0.853	0.44	0.58	0.85	OK	OK
Ovest	10	Max WS	3.84	309.52	309.17	0.35	310.21	0.69	311.48	1.96	3.35		Tombato	0.400	0.35	0.51	0.51	OK	OK
Ovest	4	Max WS	3.84	309.45	309.11	0.34	310.06	0.61	311.97	2.52	1.36		Tombato	0.066	0.34	0.51	0.51	OK	OK

BRIDGES																		
Reach	River Sta	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	ROB Elev	Vel Tot	Weir Low	W. Freeb	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m/s)	(m)	(m)							
Ovest	1158	Max WS	0.25	319.58	318.62	0.96	321.47	321.47	0.05			CANALE						
Ovest	1150 BRU	Max WS	0.25	319.58	318.62	0.96	318.62	318.62	0.05	321.62	2.04		Attravers	0.000	1.50	0.85	1.50	OK
Ovest	1150 BRD	Max WS	0.25	319.58	318.54	1.04	318.62	318.62	0.05	321.62	2.04		Attravers	0.000	1.50	0.89	1.50	OK
Ovest	1139	Max WS	0.25	319.58	318.54	1.04	320.87	320.93	0.04				CANALE					
Ovest	681	Max WS	3.54	316.97	316.03	0.94	317	316.96	1.27				CANALE					
Ovest	675 BRU	Max WS	3.54	317.18	316.03	1.15	317	316.67	1.02	317.98	0.80		Attravers	0.042	1.50	0.93	1.50	NO
Ovest	675 BRD	Max WS	3.54	317.15	315.99	1.16	316.85	316.86	1.2	317.98	0.83		Attravers	0.059	1.50	0.94	1.50	NO
Ovest	666	Max WS	3.54	316.48	315.99	0.49	317.56	317.29	3.63				CANALE					
Legenda																		
Weir Low		Quota impalcato (m s.l.m.m.)																
W. Freeb		Franco idraulico dell'attraversamento (m)																

CULVERTS													
Reach	River Sta	Profile	Q Culv	Culv WS In	Culv Inv El Up	Diff	Culv Vel US	Freeb US	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m/s)	(m)					
Ovest	1740 Culvert	Max WS	0.70	321.49	320.96	0.53	1.66	0.47	0.112	0.50	0.63	0.63	NO
		Diametro		Culv WS Out	Culv Inv El Dn	Diff	Culv Vel DS	Freeb DS	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
		(m)		(m)	(m)	(m)	(m/s)	(m)					
		1.00		321.34	320.86	0.48	1.85	0.52	0.140	0.50	0.60	0.60	NO

Legenda

Culv WS In	Quota livello idrico all'imbocco (m s.l.m.m.)
Culv Inv El Up	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel US	Velocità all'imbocco (m/s)
Freeb US	Franco idraulico dell'attraversamento (m)

Culv WS Out	Quota livello idrico allo sbocco (m s.l.m.m.)
Culv Inv El Dn	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel DS	Velocità all'imbocco (m/s)
Freeb DS	Franco idraulico dell'attraversamento (m)

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica	
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB
Ovest	2164	Max WS	5.4	323.63	323.37	0.26	323.85	0.22	323.63	0	0.93		CANALE	0.022	0.26	0.44	0.44	NO	NO
Ovest	2086	Max WS	5.37	323.23	323.02	0.21	323.48	0.26	323.16	-0.07	0.90		CANALE	0.021	0.21	0.40	0.40	NO	NO
Ovest	1999	Max WS	5.36	322.56	322.33	0.23	322.81	0.25	322.86	0.3	0.84		CANALE	0.018	0.23	0.42	0.42	NO	NO
Ovest	1930	Max WS	5.36	322.15	321.93	0.22	321.97	-0.18	323.07	0.92	0.81		CANALE	0.017	0.22	0.41	0.41	NO	OK
Ovest	1831	Max WS	0.81	321.73	321.29	0.44	321.65	-0.09	321.88	0.15	0.03		CANALE	2.29E-05	0.44	0.00	0.44	NO	NO
Ovest	1804	Max WS	0.79	321.73	321.26	0.47	322.2	0.47	322.24	0.5	0.01		CANALE	2.55E-06	0.47	0.00	0.47	OK	OK
Ovest	1779	Max WS	0.77	321.73	321.33	0.4	321.79	0.06	322.15	0.42	0.01		CANALE	2.55E-06	0.40	0.00	0.40	NO	OK
Ovest	1758	Max WS	0.77	321.73	321.24	0.49	322.09	0.35	321.99	0.26	0.01		CANALE	2.55E-06	0.49	0.00	0.49	NO	NO
Ovest	1748	Max WS	0.76	321.73	321.15	0.58	322.12	0.39	321.68	-0.06	0.01		CANALE	2.55E-06	0.58	0.00	0.58	NO	NO
Ovest	1744	Max WS	0.76	321.73	321.05	0.68	321.49	-0.25	321.84	0.11	0.02		CANALE	1.02E-05	0.68	0.00	0.68	NO	NO
Ovest	1741	Max WS	0.76	321.73	321.01	0.72	321.58	-0.15	321.7	-0.03	0.02		CANALE	1.02E-05	0.72	0.00	0.72	NO	NO
Ovest	1740		Culvert										Attr. SS131						
Ovest	1703	Max WS	0.76	321.04	320.86	0.18	322.11	1.07	322.11	1.07	1.30		CANALE	0.043	0.18	0.37	0.37	OK	OK
Ovest	1660	Max WS	0.76	320.8	320.62	0.18	321.87	1.07	321.87	1.07	1.31		CANALE	0.044	0.18	0.37	0.37	OK	OK
Ovest	1627	Max WS	0.76	320.6	320.45	0.15	321.75	1.15	321.75	1.15	1.63		CANALE	0.068	0.15	0.34	0.34	OK	OK
Ovest	1602	Max WS	0.43	320.38	320.17	0.21	321.51	1.13	321.51	1.13	0.65		CANALE	0.011	0.21	0.40	0.40	OK	OK
Ovest	1587	Max WS	0.41	320.34	320	0.34	321.45	1.11	321.45	1.11	0.90		CANALE	0.021	0.34	0.51	0.51	OK	OK
Ovest	1571	Max WS	0.42	320.36	319.8	0.56	321.45	1.09	321.45	1.09	0.49		CANALE	0.006	0.50	0.65	0.65	OK	OK
Ovest	1539	Max WS	0.44	320.36	319.36	1	321.43	1.07	321.43	1.07	0.25		CANALE	0.002	0.50	0.87	0.87	OK	OK
Ovest	1529	Max WS	0.44	320.37	319.26	1.11	321.27	0.91	321.08	0.71	0.13		CANALE	4.31E-04	0.50	0.92	0.92	NO	NO
Ovest	1524	Max WS	0.44	320.37	319.2	1.17	321.21	0.84	321.19	0.82	0.13		CANALE	4.31E-04	0.50	0.94	0.94	NO	NO
Ovest	1514	Max WS	0.45	320.37	319.15	1.22	321.32	0.96	321.34	0.97	0.12		CANALE	3.67E-04	0.50	0.96	0.96	OK	OK
Ovest	1494	Max WS	0.45	320.37	319.12	1.25	321.24	0.88	321.21	0.84	0.11		CANALE	3.08E-04	0.50	0.97	0.97	NO	NO
Ovest	1388	Max WS	0.49	320.37	319.02	1.35	321.15	0.78	321.15	0.78	0.12		CANALE	3.67E-04	0.50	1.01	1.01	NO	NO
Ovest	1300	Max WS	0.52	320.37	318.93	1.44	321.15	0.78	321.15	0.78	0.11		CANALE	3.08E-04	0.50	1.04	1.04	NO	NO
Ovest	1253	Max WS	0.53	320.37	318.87	1.5	321.15	0.78	321.15	0.78	0.10	CASSA B		2.55E-04	0.50	0.00	0.50	OK	OK
Ovest	1245	Max WS	0.54	320.37	318.86	1.51	321.04	0.61	323.73	3.36	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1238	Max WS	0.54	320.37	318.83	1.54	321.04	0.61	323.69	3.32	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1236	Max WS	0.54	320.37	318.82	1.55	321.15	0.78	321.15	0.78	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1226	Max WS	0.54	320.37	318.79	1.58	321.15	0.78	321.48	1.11	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1164	Max WS	0.56	320.37	318.64	1.73	321.42	1.05	322.25	1.88	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK
Ovest	1162		Inl Struct										SOGLIA B						
Ovest	1159	Max WS	0.21	319.7	318.63	1.07	321.39	1.69	321.39	1.69	0.03	CANALE		2.29E-05	0.50	0.00	0.50	OK	OK
Ovest	1158	Max WS	0.21	319.7	318.62	1.08	321.47	1.77	321.47	1.77	0.03	CANALE		2.29E-05	0.50	0.00	0.50	OK	OK
Ovest	1150		Bridge										ATTR. V. Oristano						
Ovest	1139	Max WS	0.21	319.7	318.54	1.16	320.87	1.17	320.93	1.23	0.03		CANALE	2.29E-05	0.50	0.00	0.50	OK	OK
Ovest	1130	Max WS	0.2	319.7	318.52	1.18	320.55	0.85	320.55	0.85	0.06		CANALE	9.17E-05	0.50	0.00	0.50	OK	OK
Ovest	1110	Max WS	0.97	319.69	318.47	1.22	320.54	0.85	320.54	0.85	0.24		CANALE	1.47E-03	0.50	0.96	0.96	NO	NO
Ovest	1070	Max WS	2.43	319.66	318.39	1.27	320.49	0.83	320.49	0.83	0.64		CANALE	1.04E-02	0.50	0.98	0.98	NO	NO
Ovest	1039	Max WS	3.59	319.59	318.33	1.26	320.46	0.87	320.46	0.87	0.99		CANALE	2.50E-02	0.50	0.98	0.98	NO	NO
Ovest	998	Max WS	5.05	319.45	318.28	1.17	320.19	0.74	320.19	0.74	1.49		CANALE	5.66E-02	0.50	0.94	0.94	NO	NO
Ovest	949	Max WS	6.51	319.13	318.2	0.93	320.03	0.9	320.03	0.9	2.60		CANALE	1.72E-01	0.50	0.84	0.84	OK	OK
Ovest	945	Max WS	6.53	319.11	318.19	0.92	319.99	0.88	319.99	0.88	2.60		CANALE	1.72E-01	0.50	0.83	0.83	OK	OK
Ovest	937	Max WS	6.45	319.08	318.17	0.91	319.97	0.89	319.97	0.89	2.60		CANALE	1.72E-01	0.50	0.83	0.83	OK	OK
Ovest	933	Max WS	6.89	319.09	318.04	1.05	319.98	0.89	319.98	0.89	2.36	CANALE		1.42E-01	0.50	0.89	0.89	OK	OK
Ovest	932		Inl Struct										SALTO						
Ovest	931	Max WS	7.91	318.54	317.54	1	319.98	1.44	319.98	1.44	3.89	CANALE		0.386	0.50	0.87	0.87	OK	OK
Ovest	907	Max WS	8.42	318.41	317.29	1.12	319.44	1.03	319.44	1.03	2.62	CANALE		0.175	0.50	0.92	0.92	OK	OK
Ovest	906		Inl Struct										SALTO						

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica	
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB
Ovest	905	Max WS	9.57	317.58	316.69	0.89	319.44	1.86	319.44	1.86	4.64	CANALE		5.5E-01	0.50	0.82	0.82	OK	OK
Ovest	873	Max WS	4.99	317.28	316.32	0.96	319	1.72	319	1.72	2.35	CANALE		1.4E-01	0.50	0.85	0.85	OK	OK
Ovest	872	Max WS	4.35	317.29	316.31	0.98	318.8	1.51	319.18	1.89	0.17	CASSA A		7.4E-04	0.50	0.86	0.86	OK	OK
Ovest	848	Max WS	4.59	317.29	316.3	0.99	318.68	1.39	318.95	1.66	0.09	CASSA A		2.1E-04	0.50	0.00	0.50	OK	OK
Ovest	829.67	Max WS	4.3	317.29	316.29	1	318.85	1.56	318.94	1.65	0.09	CASSA A		2.1E-04	0.50	0.00	0.50	OK	OK
Ovest	815	Max WS	4.28	317.29	316.29	1	319	1.71	318.94	1.65	0.06	CASSA A		9.2E-05	0.50	0.00	0.50	OK	OK
Ovest	781	Max WS	4.53	317.29	316.28	1.01	318.48	1.19	318.64	1.35	0.03	CASSA A		2.3E-05	0.50	0.00	0.50	OK	OK
Ovest	731	Max WS	4.41	317.29	316.15	1.14	318.13	0.84	318.16	0.87	0.04	CASSA A		4.1E-05	0.50	0.00	0.50	OK	OK
Ovest	714	Max WS	4.39	317.29	316.1	1.19	318.1	0.81	318.07	0.78	0.04	CASSA A		4.1E-05	0.50	0.00	0.50	OK	OK
Ovest	713		Inl Struct									SOGLIA A							
Ovest	696	Max WS	4.39	317.14	316.06	1.08	317.88	0.74	317.87	0.73	0.92		CANALE	2.2E-02	0.50	0.90	0.90	NO	NO
Ovest	690	Max WS	4.39	317.13	316.05	1.08	317.37	0.24	317.37	0.24	1.02		CANALE	2.7E-02	0.50	0.90	0.90	NO	NO
Ovest	686	Max WS	4.39	317.04	316.04	1	317.02	-0.02	317.01	-0.03	1.78		CANALE	8.1E-02	0.50	0.87	0.87	NO	NO
Ovest	681	Max WS	4.39	317.09	316.03	1.06	317	-0.1	316.96	-0.13	1.30		CANALE	4.3E-02	0.50	0.90	0.90	NO	NO
Ovest	675		Bridge										Attr. FF.SS.						
Ovest	666	Max WS	4.39	316.56	315.99	0.57	317.56	1	317.29	0.73	3.83		CANALE	0.374	0.50	0.66	0.66	OK	OK
Ovest	661	Max WS	4.39	316.54	315.91	0.63	317.46	0.92	317.46	0.92	3.46		Tombato	0.427	0.50	0.69	0.69	OK	OK
Ovest	647	Max WS	4.4	316.39	315.76	0.63	317.31	0.92	317.31	0.92	3.39		Tombato	0.410	0.50	0.69	0.69	OK	OK
Ovest	623	Max WS	4.41	316.22	315.56	0.66	317.11	0.88	317.11	0.88	3.31		Tombato	0.391	0.50	0.71	0.71	OK	OK
Ovest	579	Max WS	4.43	315.82	315.19	0.63	316.74	0.92	316.74	0.92	3.52		Tombato	0.442	0.50	0.69	0.69	OK	OK
Ovest	543	Max WS	4.45	315.45	314.89	0.56	316.44	0.98	316.44	0.98	3.93		Tombato	0.551	0.50	0.65	0.65	OK	OK
Ovest	479	Max WS	4.48	314.87	314.35	0.52	315.81	0.94	315.76	0.89	4.30		Tombato	0.660	0.50	0.63	0.66	OK	OK
Ovest	451	Max WS	4.5	314.69	314.11	0.58	315.6	0.91	315.6	0.91	3.77		Tombato	0.507	0.50	0.66	0.66	OK	OK
Ovest	404	Max WS	4.52	314.29	313.72	0.57	315.36	1.06	315.35	1.06	3.92		Tombato	0.548	0.50	0.66	0.66	OK	OK
Ovest	365	Max WS	4.54	313.96	313.39	0.57	315.51	1.55	315.51	1.55	3.99		Tombato	0.568	0.50	0.66	0.66	OK	OK
Ovest	335	Max WS	4.54	313.68	313.14	0.54	315.2	1.52	315.15	1.47	4.20		Tombato	0.629	0.50	0.64	0.64	OK	OK
Ovest	296	Max WS	4.56	313.27	312.7	0.57	314.58	1.31	314.68	1.41	4.40		Tombato	0.691	0.50	0.66	0.69	OK	OK
Ovest	242	Max WS	4.58	312.7	312.07	0.63	314	1.3	314.08	1.38	4.04		Tombato	0.582	0.50	0.69	0.69	OK	OK
Ovest	217	Max WS	4.59	312.38	311.78	0.6	313.92	1.54	313.88	1.51	4.27		Tombato	0.651	0.50	0.67	0.67	OK	OK
Ovest	199	Max WS	4.6	312.18	311.57	0.61	313.99	1.81	313.97	1.79	4.25		Tombato	0.644	0.50	0.68	0.68	OK	OK
Ovest	163	Max WS	4.62	311.77	311.17	0.6	314.01	2.24	314.08	2.31	4.26		Tombato	0.647	0.50	0.67	0.67	OK	OK
Ovest	129	Max WS	4.63	311.37	310.78	0.59	314.09	2.72	314.09	2.72	4.32		Tombato	0.666	0.50	0.67	0.67	OK	OK
Ovest	98	Max WS	4.65	311.09	310.42	0.67	312.72	1.63	312.72	1.63	3.83		Tombato	0.523	0.50	0.71	0.71	OK	OK
Ovest	67	Max WS	4.66	310.69	310.06	0.63	312.16	1.47	312.2	1.51	4.11		Tombato	0.603	0.50	0.69	0.69	OK	OK
Ovest	42	Max WS	4.67	310.32	309.77	0.55	312.07	1.75	311.75	1.43	4.70		Tombato	0.788	0.50	0.65	0.79	OK	OK
Ovest	19	Max WS	4.68	309.89	309.4	0.49	311.5	1.61	311.5	1.61	5.28		Tombato	0.995	0.49	0.61	0.99	OK	OK
Ovest	10	Max WS	4.69	309.56	309.17	0.39	310.21	0.65	311.48	1.92	3.51		Tombato	0.440	0.39	0.54	0.54	OK	OK
Ovest	4	Max WS	4.69	309.48	309.11	0.37	310.06	0.58	311.97	2.49	1.45		Tombato	0.075	0.37	0.53	0.53	OK	OK

BRIDGES																		
Reach	River Sta	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	ROB Elev	Vel Tot	Weir Low	W. Freeb	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m/s)	(m)	(m)							
Ovest	1158	Max WS	0.21	319.7	318.62	1.08	321.47	321.47	0.03			CANALE						
Ovest	1150 BRU	Max WS	0.21	319.7	318.62	1.08	318.62	318.62	0.04	321.62	1.92		Attravers	0.000	1.50	0.90	1.50	OK
Ovest	1150 BRD	Max WS	0.21	319.7	318.54	1.16	318.62	318.62	0.04	321.62	1.92		Attravers	0.000	1.50	0.94	1.50	OK
Ovest	1139	Max WS	0.21	319.7	318.54	1.16	320.87	320.93	0.03				CANALE					
Ovest	681	Max WS	4.39	317.09	316.03	1.06	317	316.96	1.3				CANALE					
Ovest	675 BRU	Max WS	4.39	317.34	316.03	1.31	317	316.67	1.06	317.98	0.64		Attravers	0.046	1.50	1.00	1.50	NO
Ovest	675 BRD	Max WS	4.39	317.32	315.99	1.33	316.85	316.86	1.21	317.98	0.66		Attravers	0.060	1.50	1.00	1.50	NO
Ovest	666	Max WS	4.39	316.56	315.99	0.57	317.56	317.29	3.83				CANALE					
Legenda																		
Weir Low		Quota impalcato (m s.l.m.m.)																
W. Freeb		Franco idraulico dell'attraversamento (m)																

CULVERTS													
Reach	River Sta	Profile	Q Culv	Culv WS In	Culv Inv El Up	Diff	Culv Vel US	Freeb US	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m/s)	(m)					
Ovest	1740 Culvert	Max WS	0.76	321.51	320.96	0.55	1.70	0.45	0.118	0.50	0.65	0.65	NO
		Diametro		Culv WS Out	Culv Inv El Dn	Diff	Culv Vel DS	Freeb DS	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
		(m)		(m)	(m)	(m)	(m/s)	(m)					
		1.00		321.36	320.86	0.50	1.95	0.50	0.155	0.50	0.62	0.62	NO

Legenda

Culv WS In	Quota livello idrico all'imbocco (m s.l.m.m.)
Culv Inv El Up	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel US	Velocità all'imbocco (m/s)
Freeb US	Franco idraulico dell'attraversamento (m)

Culv WS Out	Quota livello idrico allo sbocco (m s.l.m.m.)
Culv Inv El Dn	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel DS	Velocità all'imbocco (m/s)
Freeb DS	Franco idraulico dell'attraversamento (m)

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica		
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB	
Ovest	2164	Max WS	7.7	323.66	323.37	0.29	323.85	0.19	323.63	-0.03	1.06		CANALE	0.029	0.29	0.47	0.47	NO	NO	
Ovest	2086	Max WS	7.65	323.25	323.02	0.23	323.48	0.23	323.16	-0.09	1.02		CANALE	0.027	0.23	0.42	0.42	NO	NO	
Ovest	1999	Max WS	7.61	322.59	322.33	0.26	322.81	0.21	322.86	0.27	0.90		CANALE	0.021	0.26	0.44	0.44	NO	NO	
Ovest	1930	Max WS	7.59	322.18	321.93	0.25	321.97	-0.21	323.07	0.89	0.91		CANALE	0.021	0.25	0.44	0.44	NO	OK	
Ovest	1831	Max WS	0.8	321.77	321.29	0.48	321.65	-0.13	321.88	0.11	0.02		CANALE	1.02E-05	0.48	0.00	0.48	NO	NO	
Ovest	1804	Max WS	0.87	321.77	321.26	0.51	322.2	0.43	322.24	0.46	0.01		CANALE	2.55E-06	0.51	0.00	0.51	NO	NO	
Ovest	1779	Max WS	0.86	321.77	321.33	0.44	321.79	0.02	322.15	0.38	0.01		CANALE	2.55E-06	0.44	0.00	0.44	NO	NO	
Ovest	1758	Max WS	0.84	321.77	321.24	0.53	322.09	0.31	321.99	0.22	0.01		CANALE	2.55E-06	0.53	0.00	0.53	NO	NO	
Ovest	1748	Max WS	0.83	321.77	321.15	0.62	322.12	0.35	321.68	-0.1	0.01		CANALE	2.55E-06	0.62	0.00	0.62	NO	NO	
Ovest	1744	Max WS	0.83	321.77	321.05	0.72	321.49	-0.29	321.84	0.07	0.01		CANALE	2.55E-06	0.72	0.00	0.72	NO	NO	
Ovest	1741	Max WS	0.83	321.77	321.01	0.76	321.58	-0.19	321.7	-0.07	0.01		CANALE	2.55E-06	0.76	0.00	0.76	NO	NO	
Ovest	1740		Culvert										Attr. SS131							
Ovest	1703	Max WS	0.83	321.05	320.86	0.19	322.11	1.06	322.11	1.06	1.35		CANALE	0.046	0.19	0.38	0.38	OK	OK	
Ovest	1660	Max WS	0.83	320.81	320.62	0.19	321.87	1.06	321.87	1.06	1.35		CANALE	0.046	0.19	0.38	0.38	OK	OK	
Ovest	1627	Max WS	0.83	320.61	320.45	0.16	321.75	1.14	321.75	1.14	1.69		CANALE	0.073	0.16	0.35	0.35	OK	OK	
Ovest	1602	Max WS	0.44	320.53	320.17	0.36	321.51	0.98	321.51	0.98	0.37		CANALE	0.003	0.36	0.52	0.52	OK	OK	
Ovest	1587	Max WS	0.44	320.52	320	0.52	321.45	0.93	321.45	0.93	0.56		CANALE	0.008	0.50	0.63	0.63	OK	OK	
Ovest	1571	Max WS	0.45	320.53	319.8	0.73	321.45	0.92	321.45	0.92	0.36		CANALE	0.003	0.50	0.74	0.74	OK	OK	
Ovest	1539	Max WS	0.46	320.53	319.36	1.17	321.43	0.9	321.43	0.9	0.21		CANALE	0.001	0.50	0.94	0.94	NO	NO	
Ovest	1529	Max WS	0.47	320.53	319.26	1.27	321.27	0.74	321.08	0.55	0.12		CANALE	3.67E-04	0.50	0.98	0.98	NO	NO	
Ovest	1524	Max WS	0.47	320.53	319.2	1.33	321.21	0.68	321.19	0.66	0.11		CANALE	3.08E-04	0.50	1.00	1.00	NO	NO	
Ovest	1514	Max WS	0.47	320.53	319.15	1.38	321.32	0.79	321.34	0.81	0.10		CANALE	2.55E-04	0.50	0.00	0.50	OK	OK	
Ovest	1494	Max WS	0.48	320.53	319.12	1.41	321.24	0.71	321.21	0.68	0.10		CANALE	2.55E-04	0.50	0.00	0.50	OK	OK	
Ovest	1388	Max WS	0.51	320.53	319.02	1.51	321.15	0.62	321.15	0.62	0.11		CANALE	3.08E-04	0.50	1.07	1.07	NO	NO	
Ovest	1300	Max WS	0.54	320.53	318.93	1.6	321.15	0.62	321.15	0.62	0.10		CANALE	2.55E-04	0.50	0.00	0.50	OK	OK	
Ovest	1253	Max WS	0.56	320.53	318.87	1.66	321.15	0.62	321.15	0.62	0.10	CASSA B		2.55E-04	0.50	0.00	0.50	OK	OK	
Ovest	1245	Max WS	0.56	320.53	318.86	1.67	321.04	0.51	323.73	3.2	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK	
Ovest	1238	Max WS	0.57	320.53	318.83	1.7	321.04	0.51	323.69	3.16	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK	
Ovest	1236	Max WS	0.57	320.53	318.82	1.71	321.15	0.62	321.15	0.62	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK	
Ovest	1226	Max WS	0.57	320.53	318.79	1.74	321.15	0.62	321.48	0.95	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK	
Ovest	1164	Max WS	0.58	320.53	318.64	1.89	321.42	0.89	322.25	1.72	0.01	CASSA B		2.55E-06	0.50	0.00	0.50	OK	OK	
Ovest	1162		Inl Struct										SOGLIA B							
Ovest	1159	Max WS	0.26	319.82	318.63	1.19	321.39	1.57	321.39	1.57	0.04		CANALE	4.08E-05	0.50	0.00	0.50	OK	OK	
Ovest	1158	Max WS	0.26	319.82	318.62	1.2	321.47	1.65	321.47	1.65	0.04		CANALE	4.08E-05	0.50	0.00	0.50	OK	OK	
Ovest	1150		Bridge										ATTR. V. Oristano							
Ovest	1139	Max WS	0.26	319.82	318.54	1.28	320.87	1.05	320.93	1.1	0.04		CANALE	4.08E-05	0.50	0.00	0.50	OK	OK	
Ovest	1130	Max WS	0.25	319.82	318.52	1.3	320.55	0.73	320.55	0.73	0.06		CANALE	9.17E-05	0.50	0.00	0.50	OK	OK	
Ovest	1110	Max WS	1.13	319.81	318.47	1.34	320.54	0.73	320.54	0.73	0.24		CANALE	1.47E-03	0.50	1.01	1.01	NO	NO	
Ovest	1070	Max WS	2.81	319.78	318.39	1.39	320.49	0.71	320.49	0.71	0.65		CANALE	1.08E-02	0.50	1.03	1.03	NO	NO	
Ovest	1039	Max WS	4.15	319.71	318.33	1.38	320.46	0.75	320.46	0.75	1.01		CANALE	2.60E-02	0.50	1.02	1.02	NO	NO	
Ovest	998	Max WS	5.85	319.56	318.28	1.28	320.19	0.63	320.19	0.63	1.51		CANALE	5.81E-02	0.50	0.98	0.98	NO	NO	
Ovest	949	Max WS	7.56	319.23	318.2	1.03	320.03	0.8	320.03	0.8	2.63		CANALE	1.76E-01	0.50	0.88	0.88	NO	NO	
Ovest	945	Max WS	7.67	319.21	318.19	1.02	319.99	0.78	319.99	0.78	2.66		CANALE	1.80E-01	0.50	0.88	0.88	NO	NO	
Ovest	937	Max WS	7.24	319.18	318.17	1.01	319.97	0.79	319.97	0.79	2.55		CANALE	1.66E-01	0.50	0.87	0.87	NO	NO	
Ovest	933	Max WS	7.04	319.18	318.04	1.14	319.98	0.8	319.98	0.8	2.17	CANALE		1.20E-01	0.50	0.93	0.93	NO	NO	
Ovest	932		Inl Struct										SALTO							
Ovest	931	Max WS	9.63	318.64	317.54	1.1	319.98	1.34	319.98	1.34	4.18		CANALE		0.445	0.50	0.91	0.91	OK	OK
Ovest	907	Max WS	9.73	318.49	317.29	1.2	319.44	0.95	319.44	0.95	2.73		CANALE		0.190	0.50	0.95	0.95	OK	OK
Ovest	906		Inl Struct										SALTO							

Reach	RiverSt	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	L. Freeb	ROB Elev	R. Freeb	Vel Tot	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica	
			(m3/s)	(m)	(m)		(m)	(m)	(m)	(m)	(m/s)							LOB	ROB
Ovest	905	Max WS	11.29	317.66	316.69	0.97	319.44	1.78	319.44	1.78	4.92	CANALE		6.2E-01	0.50	0.86	0.86	OK	OK
Ovest	873	Max WS	5.87	317.42	316.32	1.1	319	1.58	319	1.58	2.31	CANALE		1.4E-01	0.50	0.91	0.91	OK	OK
Ovest	872	Max WS	5.12	317.44	316.31	1.13	318.8	1.36	319.18	1.74	0.17	CASSA A		7.4E-04	0.50	0.92	0.92	OK	OK
Ovest	848	Max WS	5.42	317.44	316.3	1.14	318.68	1.24	318.95	1.51	0.09	CASSA A		2.1E-04	0.50	0.00	0.50	OK	OK
Ovest	829.67	Max WS	5.64	317.44	316.29	1.15	318.85	1.42	318.94	1.5	0.10	CASSA A		2.5E-04	0.50	0.00	0.50	OK	OK
Ovest	815	Max WS	5.59	317.44	316.29	1.15	319	1.56	318.94	1.5	0.07	CASSA A		1.2E-04	0.50	0.00	0.50	OK	OK
Ovest	781	Max WS	5.5	317.44	316.28	1.16	318.48	1.04	318.64	1.2	0.04	CASSA A		4.1E-05	0.50	0.00	0.50	OK	OK
Ovest	731	Max WS	5.46	317.44	316.15	1.29	318.13	0.69	318.16	0.72	0.04	CASSA A		4.1E-05	0.50	0.00	0.50	OK	OK
Ovest	714	Max WS	5.43	317.44	316.1	1.34	318.1	0.66	318.07	0.63	0.04	CASSA A		4.1E-05	0.50	0.00	0.50	OK	OK
Ovest	713		Inl Struct									SOGLIA A							
Ovest	696	Max WS	5.43	317.25	316.06	1.19	317.88	0.63	317.87	0.63	1.02		CANALE	2.7E-02	0.50	0.95	0.95	NO	NO
Ovest	690	Max WS	5.42	317.23	316.05	1.18	317.37	0.14	317.37	0.14	1.15		CANALE	3.4E-02	0.50	0.95	0.95	NO	NO
Ovest	686	Max WS	5.42	317.14	316.04	1.1	317.02	-0.12	317.01	-0.13	1.85		CANALE	8.7E-02	0.50	0.91	0.91	NO	NO
Ovest	681	Max WS	5.42	317.2	316.03	1.17	317	-0.2	316.96	-0.24	1.35		CANALE	4.6E-02	0.50	0.94	0.94	NO	NO
Ovest	675		Bridge										Attr. FF.SS.						
Ovest	666	Max WS	5.42	316.66	315.99	0.67	317.56	0.91	317.29	0.63	4.07		CANALE	0.422	0.50	0.71	0.71	OK	NO
Ovest	661	Max WS	5.42	316.64	315.91	0.73	317.46	0.82	317.46	0.82	3.72		Tombato	0.494	0.50	0.74	0.74	OK	OK
Ovest	647	Max WS	5.43	316.48	315.76	0.72	317.31	0.83	317.31	0.83	2.94		Tombato	0.308	0.50	0.74	0.74	OK	OK
Ovest	623	Max WS	5.44	316.32	315.56	0.76	317.11	0.79	317.11	0.79	3.57		Tombato	0.455	0.50	0.76	0.76	OK	OK
Ovest	579	Max WS	5.46	315.92	315.19	0.73	316.74	0.83	316.74	0.83	3.77		Tombato	0.507	0.50	0.74	0.74	OK	OK
Ovest	543	Max WS	5.48	315.54	314.89	0.65	316.44	0.9	316.44	0.9	4.21		Tombato	0.632	0.50	0.70	0.70	OK	OK
Ovest	479	Max WS	5.51	314.93	314.35	0.58	315.81	0.88	315.76	0.83	4.65		Tombato	0.771	0.50	0.66	0.77	OK	OK
Ovest	451	Max WS	5.52	314.78	314.11	0.67	315.6	0.82	315.6	0.82	2.78		Tombato	0.276	0.50	0.71	0.71	OK	OK
Ovest	404	Max WS	5.55	314.38	313.72	0.66	315.36	0.97	315.35	0.97	4.17		Tombato	0.620	0.50	0.71	0.71	OK	OK
Ovest	365	Max WS	5.57	314.04	313.39	0.65	315.51	1.47	315.51	1.47	4.24		Tombato	0.641	0.50	0.70	0.70	OK	OK
Ovest	335	Max WS	5.57	313.77	313.14	0.63	315.2	1.44	315.15	1.38	4.44		Tombato	0.703	0.50	0.69	0.70	OK	OK
Ovest	296	Max WS	5.58	313.36	312.7	0.66	314.58	1.22	314.68	1.31	4.65		Tombato	0.771	0.50	0.71	0.77	OK	OK
Ovest	242	Max WS	5.61	312.8	312.07	0.73	314	1.2	314.08	1.28	4.28		Tombato	0.654	0.50	0.74	0.74	OK	OK
Ovest	217	Max WS	5.62	312.47	311.78	0.69	313.92	1.45	313.88	1.41	4.50		Tombato	0.722	0.50	0.72	0.72	OK	OK
Ovest	199	Max WS	5.63	312.27	311.57	0.7	313.99	1.71	313.97	1.7	4.48		Tombato	0.716	0.50	0.73	0.73	OK	OK
Ovest	163	Max WS	5.65	311.86	311.17	0.69	314.01	2.14	314.08	2.21	4.49		Tombato	0.719	0.50	0.72	0.72	OK	OK
Ovest	129	Max WS	5.66	311.47	310.78	0.69	314.09	2.62	314.09	2.62	4.53		Tombato	0.732	0.50	0.72	0.73	OK	OK
Ovest	98	Max WS	5.68	311.19	310.42	0.77	312.72	1.53	312.72	1.53	4.07		Tombato	0.591	0.50	0.76	0.76	OK	OK
Ovest	67	Max WS	5.69	310.79	310.06	0.73	312.16	1.37	312.2	1.41	4.36		Tombato	0.678	0.50	0.74	0.74	OK	OK
Ovest	42	Max WS	5.7	310.4	309.77	0.63	312.07	1.67	311.75	1.35	4.99		Tombato	0.888	0.50	0.69	0.89	OK	OK
Ovest	19	Max WS	5.71	309.95	309.4	0.55	311.5	1.55	311.5	1.55	5.72		Tombato	1.167	0.50	0.65	1.17	OK	OK
Ovest	10	Max WS	5.72	309.6	309.17	0.43	310.21	0.61	311.48	1.88	3.66		Tombato	0.478	0.43	0.57	0.57	OK	OK
Ovest	4	Max WS	5.72	309.51	309.11	0.4	310.06	0.55	311.97	2.46	1.56		Tombato	0.087	0.40	0.55	0.55	OK	OK

BRIDGES																		
Reach	River Sta	Profile	Q Total	W.S. El	Min Ch El	Diff	LOB Elev	ROB Elev	Vel Tot	Weir Low	W. Freeb	OPERA PROG	OPERA ESISTENTE	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m/s)	(m)	(m)							
Ovest	1158	Max WS	0.26	319.82	318.62	1.2	321.47	321.47	0.04			CANALE						
Ovest	1150 BRU	Max WS	0.26	319.82	318.62	1.2	318.62	318.62	0.04	321.62	1.8		Attravers	0.000	1.50	0.95	1.50	OK
Ovest	1150 BRD	Max WS	0.26	319.82	318.54	1.28	318.62	318.62	0.04	321.62	1.8		Attravers	0.000	1.50	0.98	1.50	OK
Ovest	1139	Max WS	0.26	319.82	318.54	1.28	320.87	320.93	0.04				CANALE					
Ovest	681	Max WS	5.42	317.2	316.03	1.17	317	316.96	1.35				CANALE					
Ovest	675 BRU	Max WS	5.42	317.53	316.03	1.5	317	316.67	1.1	317.98	0.45		Attravers	0.049	1.50	1.07	1.50	NO
Ovest	675 BRD	Max WS	5.42	317.52	315.99	1.53	316.85	316.86	1.23	317.98	0.46		Attravers	0.062	1.50	1.08	1.50	NO
Ovest	666	Max WS	5.42	316.66	315.99	0.67	317.56	317.29	4.07				CANALE					
Legenda																		
Weir Low		Quota impalcato (m s.l.m.m.)																
W. Freeb		Franco idraulico dell'attraversamento (m)																

CULVERTS													
Reach	River Sta	Profile	Q Culv	Culv WS In	Culv Inv El Up	Diff	Culv Vel US	Freeb US	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
			(m3/s)	(m)	(m)	(m)	(m/s)	(m)					
Ovest	1740 Culvert	Max WS	0.83	321.54	320.96	0.58	1.74	0.42	0.123	0.50	0.66	0.66	NO
		Diametro		Culv WS Out	Culv Inv El Dn	Diff	Culv Vel DS	Freeb DS	Franco 1	Franco 2	Franco 3	Franco assunto	Verifica
		(m)		(m)	(m)	(m)	(m/s)	(m)					
		1.00		321.38	320.86	0.52	1.95	0.48	0.155	0.50	0.63	0.63	NO

Legenda

Culv WS In	Quota livello idrico all'imbocco (m s.l.m.m.)
Culv Inv El Up	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel US	Velocità all'imbocco (m/s)
Freeb US	Franco idraulico dell'attraversamento (m)

Culv WS Out	Quota livello idrico allo sbocco (m s.l.m.m.)
Culv Inv El Dn	Quota fondo tubazione all'imbocco (m s.l.m.m.)
Culv Vel DS	Velocità all'imbocco (m/s)
Freeb DS	Franco idraulico dell'attraversamento (m)