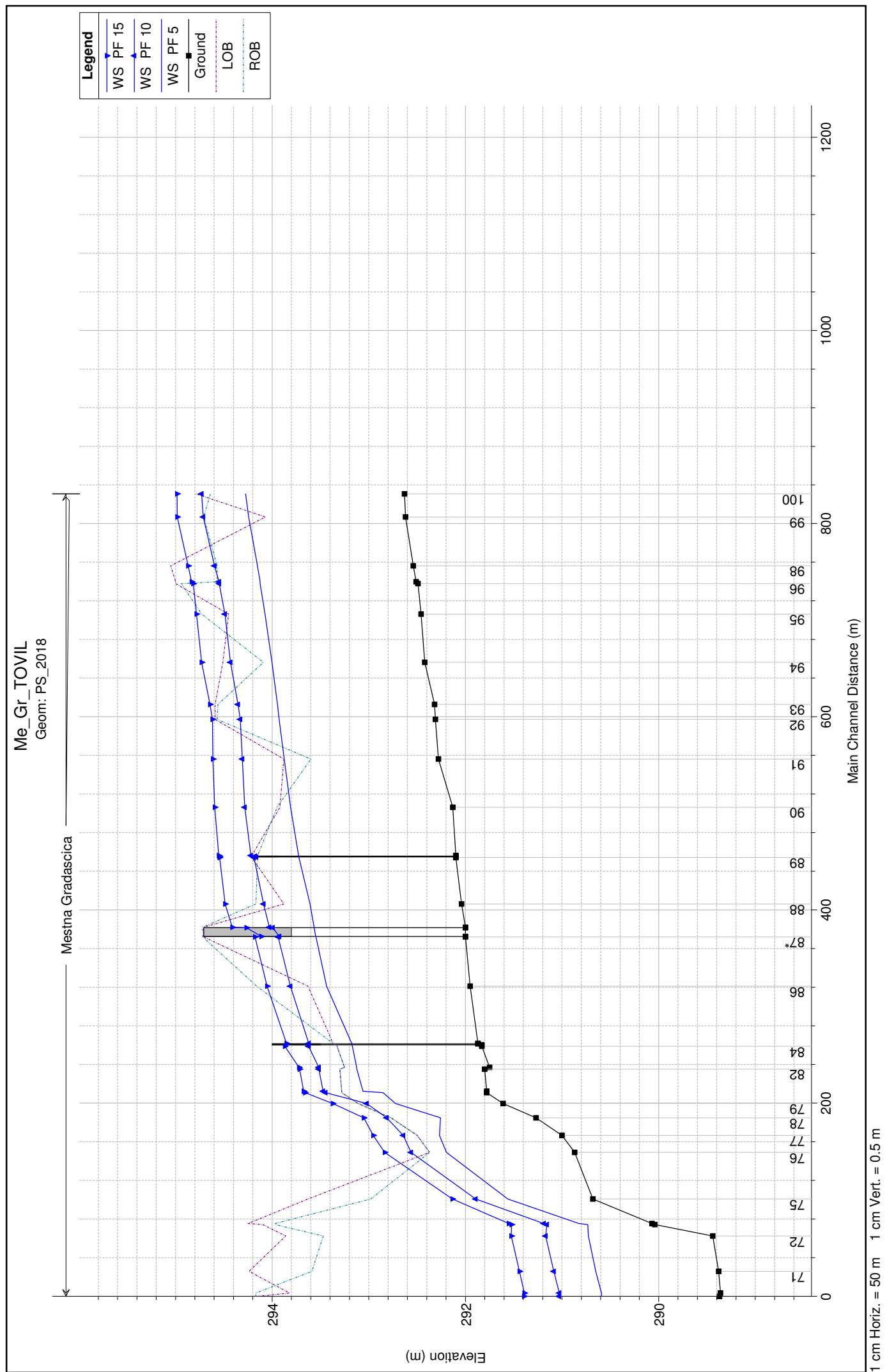
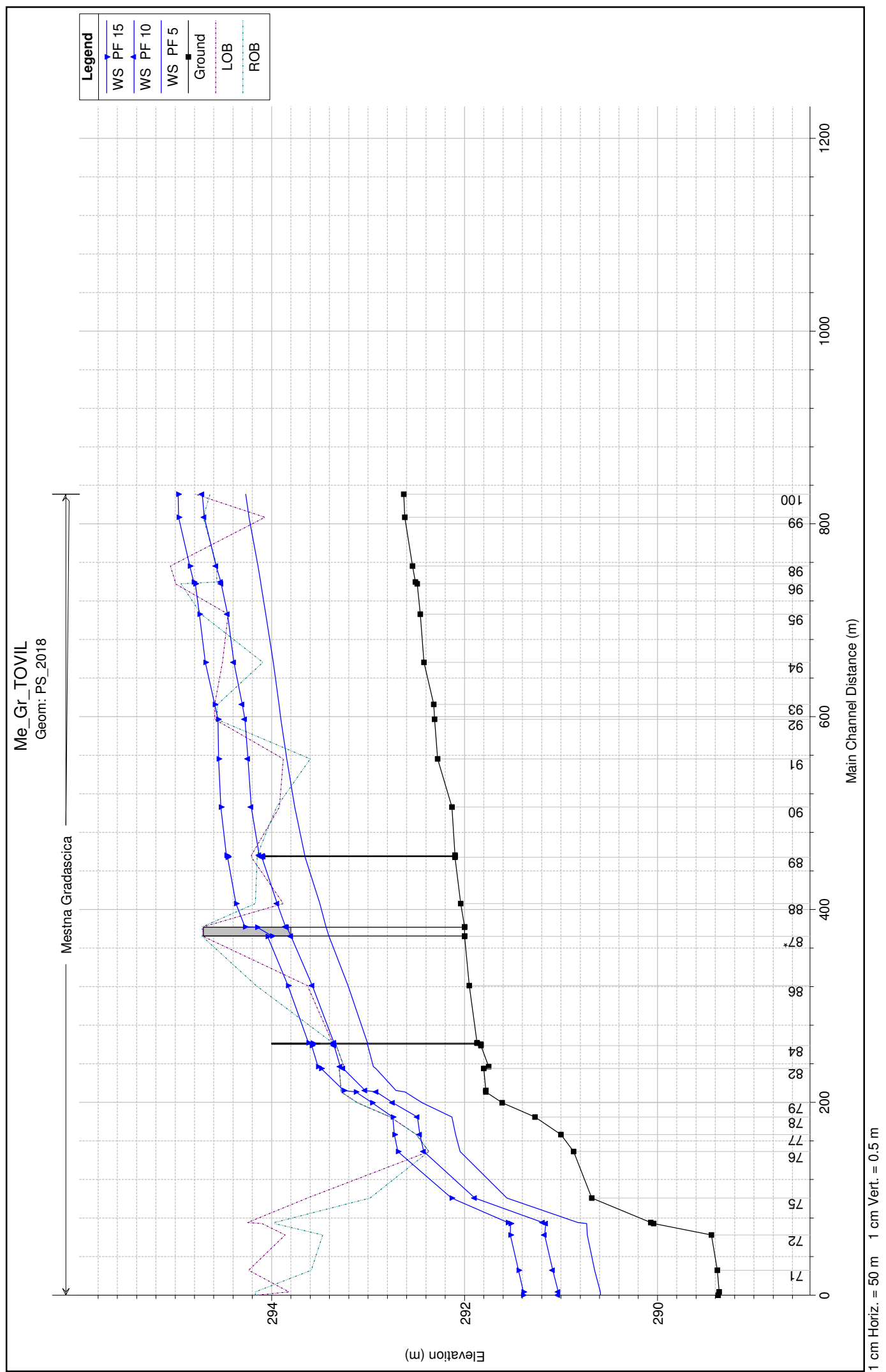

4.3 HIDRAVLICNE PRESOJE – Mestna Gradaščica

Kazalo

Hidravlični vzdolžni prerezi

Obstoječe stanje ($Q=5,10,15 \text{ m}^3/\text{s}$)	2
Načrtovano stanje ($Q=5,10,15 \text{ m}^3/\text{s}$).....	3
Primerjava načrtovano/obstoječe stanje $Q=5 \text{ m}^3/\text{s}$ (Q_{100} Mestne Gradaščice)	4
Primerjava načrtovano/obstoječe stanje $Q=10 \text{ m}^3/\text{s}$	5
Primerjava načrtovano/obstoječe stanje $Q=15 \text{ m}^3/\text{s}$	6
Tabela z rezultati izračuna gladin	7-13



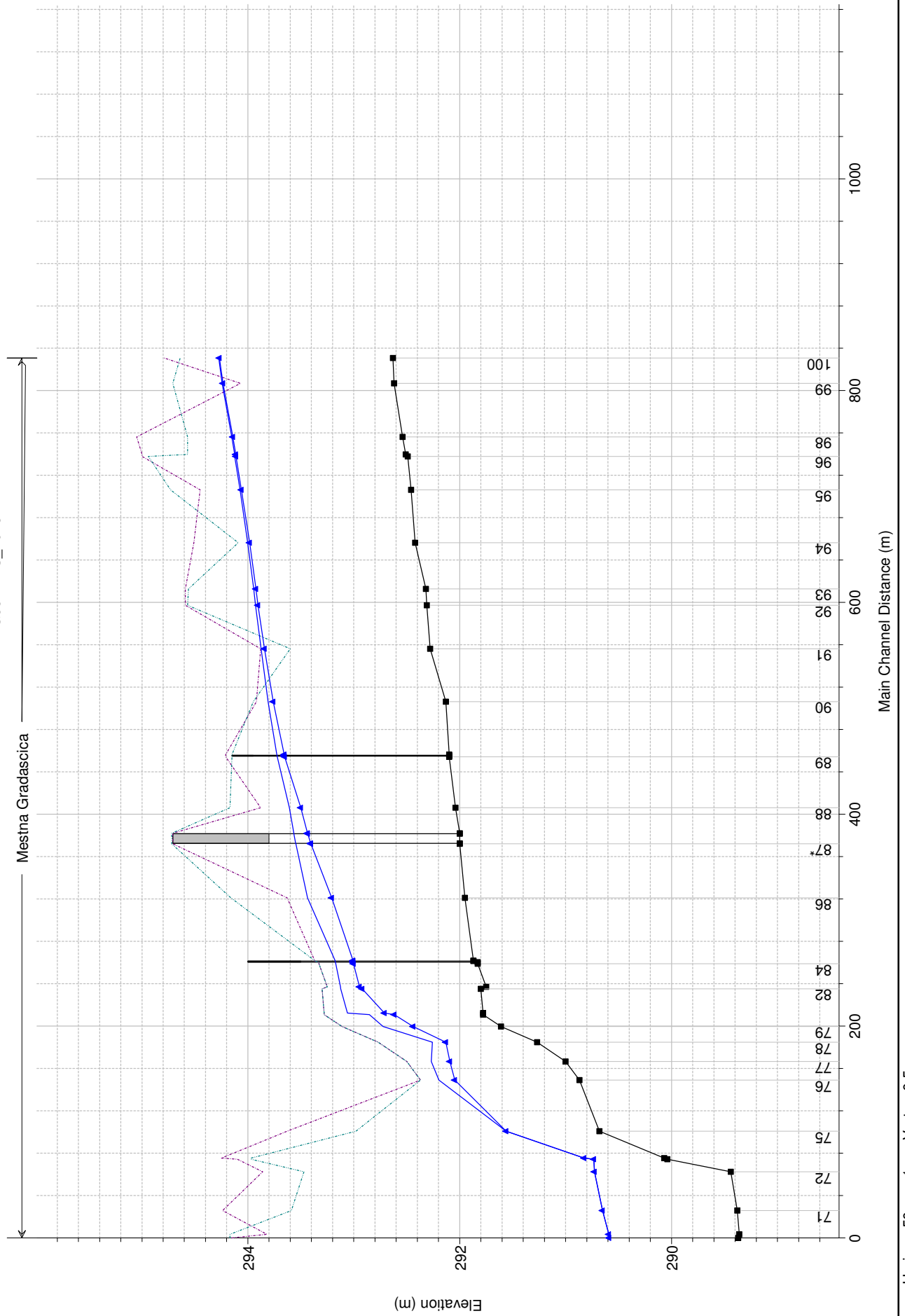


Me_Gr_TOVIL Plan: 1) tovil_OS 2.11.2010 2) PS_2018 25.9.2018

Geom: PS_2018

Mestna Gradaščica

Legend	
WS PF 5 - tovil_OS	
WS PF 5 - PS_2018	
Ground	
LOB	
ROB	

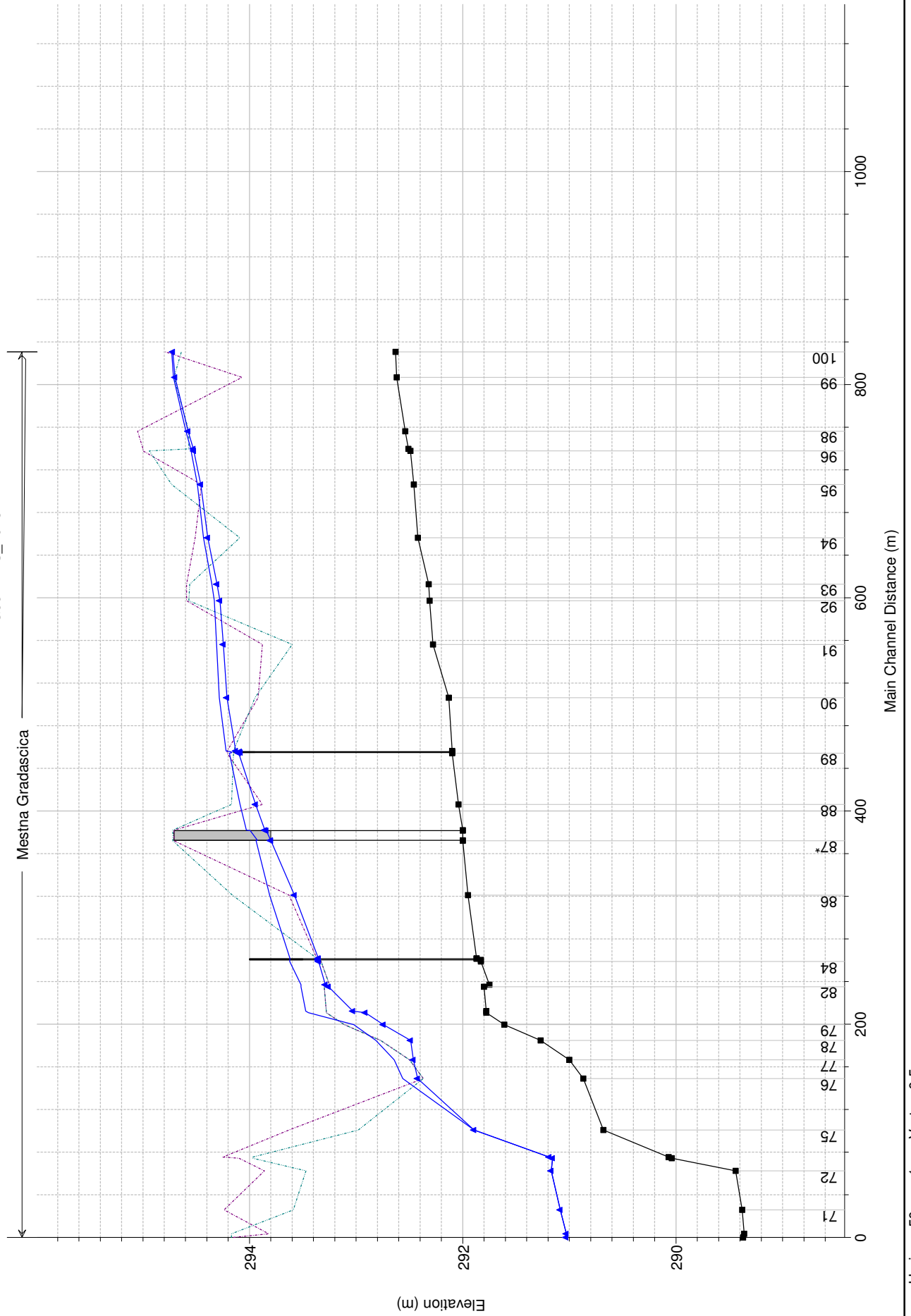


Me_Gr_TOVIL Plan: 1) tovil_OS 2.11.2010 2) PS_2018 25.9.2018

Geom: PS_2018

Mestna Gradaščica

Legend	
WS PF 10 - tovil_OS	
WS PF 10 - PS_2018	
Ground	
LOB	
ROB	



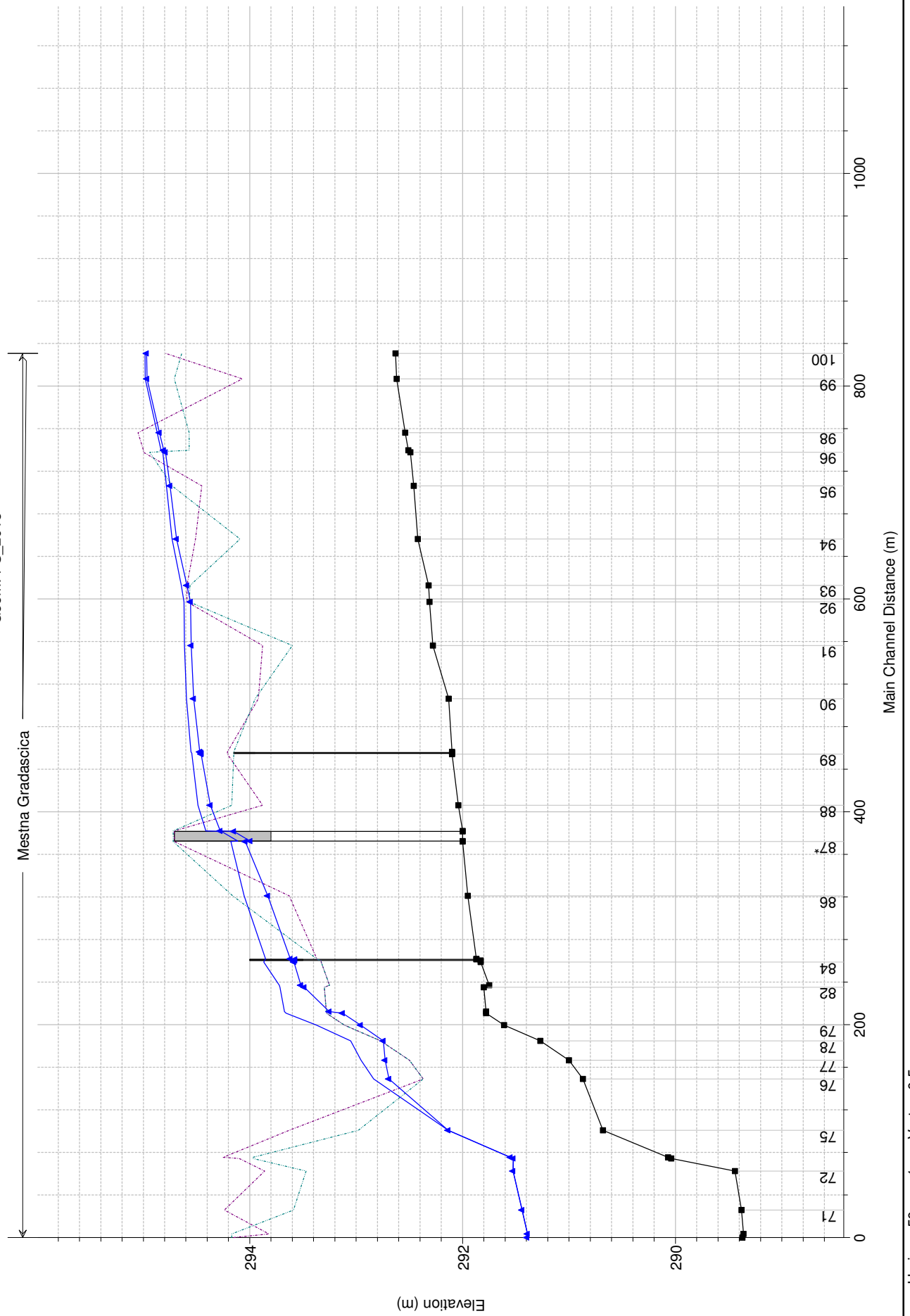
1 cm Horiz. = 50 m 1 cm Vert. = 0.5 m

Me_Gr_TOVIL Plan: 1) tovil_OS 2.11.2010 2) PS_2018 25.9.2018

Geom: PS_2018

Mestna Gradaščica

Legend	
WS PF 15 - tovil_OS	
WS PF 15 - PS_2018	
Ground	
LOB	
ROB	



HEC-RAS River: Mestna Reach: Gradascica

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gradascica	2855.270	PF 5	tovil_OS	5.00	292.63	294.27		294.30	0.001055	0.72	6.98	7.61	0.24
Gradascica	2855.270	PF 5	PS_2018	5.00	292.63	294.27		294.29	0.001075	0.72	6.93	7.58	0.24
Gradascica	2855.270	PF 10	tovil_OS	10.00	292.63	294.73		294.77	0.001260	0.92	10.96	11.17	0.27
Gradascica	2855.270	PF 10	PS_2018	10.00	292.63	294.72		294.76	0.001300	0.93	10.83	10.90	0.28
Gradascica	2855.270	PF 15	tovil_OS	15.00	292.63	294.98		295.04	0.001372	1.08	15.64	26.01	0.29
Gradascica	2855.270	PF 15	PS_2018	15.00	292.63	294.97		295.03	0.001438	1.10	15.25	25.50	0.30
Gradascica	2831.230	PF 5	tovil_OS	5.00	292.62	294.24		294.27	0.001197	0.77	6.68	9.02	0.25
Gradascica	2831.230	PF 5	PS_2018	5.00	292.62	294.24		294.27	0.001228	0.78	6.61	8.96	0.26
Gradascica	2831.230	PF 10	tovil_OS	10.00	292.62	294.71		294.74	0.001157	0.80	15.33	29.35	0.26
Gradascica	2831.230	PF 10	PS_2018	10.00	292.62	294.70		294.73	0.001223	0.82	14.93	28.37	0.26
Gradascica	2831.230	PF 15	tovil_OS	15.00	292.62	294.98		295.01	0.000818	0.79	23.21	29.35	0.23
Gradascica	2831.230	PF 15	PS_2018	15.00	292.62	294.97		294.99	0.000867	0.81	22.75	29.35	0.23
Gradascica	2780.710	PF 5	tovil_OS	5.00	292.54	294.15		294.19	0.002104	0.90	5.57	7.04	0.32
Gradascica	2780.710	PF 5	PS_2018	5.00	292.54	294.14		294.18	0.002174	0.91	5.50	6.98	0.33
Gradascica	2780.710	PF 10	tovil_OS	10.00	292.54	294.60		294.65	0.002641	1.05	9.60	13.14	0.37
Gradascica	2780.710	PF 10	PS_2018	10.00	292.54	294.58		294.64	0.002873	1.07	9.32	13.09	0.39
Gradascica	2780.710	PF 15	tovil_OS	15.00	292.54	294.87		294.94	0.002297	1.15	13.28	13.78	0.36
Gradascica	2780.710	PF 15	PS_2018	15.00	292.54	294.85		294.92	0.002457	1.18	12.98	13.73	0.37
Gradascica	2764.220	PF 5	tovil_OS	5.00	292.51	294.12		294.16	0.001576	0.86	5.81	6.28	0.29
Gradascica	2764.220	PF 5	PS_2018	5.00	292.51	294.11		294.15	0.001627	0.87	5.74	6.24	0.29
Gradascica	2764.220	PF 10	tovil_OS	10.00	292.51	294.55		294.61	0.002290	1.10	9.20	13.44	0.35
Gradascica	2764.220	PF 10	PS_2018	10.00	292.51	294.53		294.59	0.002433	1.12	8.91	10.83	0.36
Gradascica	2764.220	PF 15	tovil_OS	15.00	292.51	294.83		294.90	0.002042	1.18	13.87	16.83	0.35
Gradascica	2764.220	PF 15	PS_2018	15.00	292.51	294.81		294.88	0.002215	1.22	13.44	16.79	0.36
Gradascica	2762.270	PF 5	tovil_OS	5.00	292.49	294.12		294.16	0.001439	0.83	6.03	6.46	0.27
Gradascica	2762.270	PF 5	PS_2018	5.00	292.49	294.11		294.15	0.001484	0.84	5.96	6.42	0.28
Gradascica	2762.270	PF 10	tovil_OS	10.00	292.49	294.55		294.61	0.001983	1.09	9.22	10.68	0.33
Gradascica	2762.270	PF 10	PS_2018	10.00	292.49	294.52		294.59	0.002102	1.11	8.98	9.09	0.34
Gradascica	2762.270	PF 15	tovil_OS	15.00	292.49	294.82		294.90	0.002300	1.26	12.49	12.97	0.37
Gradascica	2762.270	PF 15	PS_2018	15.00	292.49	294.79		294.87	0.002450	1.29	12.16	12.86	0.38
Gradascica	2730.700	PF 5	tovil_OS	5.00	292.46	294.07		294.11	0.001570	0.86	5.85	6.38	0.29
Gradascica	2730.700	PF 5	PS_2018	5.00	292.46	294.06		294.10	0.001633	0.87	5.76	6.35	0.29
Gradascica	2730.700	PF 10	tovil_OS	10.00	292.46	294.49		294.54	0.001929	1.08	10.46	25.08	0.33
Gradascica	2730.700	PF 10	PS_2018	10.00	292.46	294.46		294.52	0.002156	1.12	9.69	18.31	0.34

HEC-RAS River: Mestna Reach: Gradascica (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gradascica	2730.700	PF 15	tovil_OS	15.00	292.46	294.78		294.83	0.001535	1.02	18.50	29.34	0.30
Gradascica	2730.700	PF 15	PS_2018	15.00	292.46	294.75		294.80	0.001773	1.08	17.51	29.34	0.32
Gradascica	2680.690	PF 5	tovil_OS	5.00	292.42	294.00		294.03	0.001495	0.82	7.08	12.91	0.27
Gradascica	2680.690	PF 5	PS_2018	5.00	292.42	293.98		294.02	0.001605	0.84	6.85	12.73	0.28
Gradascica	2680.690	PF 10	tovil_OS	10.00	292.42	294.43		294.46	0.001157	0.86	13.20	20.22	0.25
Gradascica	2680.690	PF 10	PS_2018	10.00	292.42	294.39		294.43	0.001320	0.91	12.50	14.25	0.27
Gradascica	2680.690	PF 15	tovil_OS	15.00	292.42	294.73		294.76	0.000969	0.91	19.88	23.50	0.24
Gradascica	2680.690	PF 15	PS_2018	15.00	292.42	294.69		294.73	0.001104	0.95	18.92	23.50	0.25
Gradascica	2637.240	PF 5	tovil_OS	5.00	292.32	293.95		293.97	0.001202	0.75	6.68	7.54	0.25
Gradascica	2637.240	PF 5	PS_2018	5.00	292.32	293.92		293.95	0.001283	0.77	6.52	7.45	0.26
Gradascica	2637.240	PF 10	tovil_OS	10.00	292.32	294.35		294.40	0.001590	0.99	10.15	9.96	0.30
Gradascica	2637.240	PF 10	PS_2018	10.00	292.32	294.30		294.36	0.001797	1.03	9.67	9.25	0.32
Gradascica	2637.240	PF 15	tovil_OS	15.00	292.32	294.64		294.71	0.001671	1.12	14.35	17.27	0.32
Gradascica	2637.240	PF 15	PS_2018	15.00	292.32	294.59		294.66	0.001976	1.18	13.41	17.27	0.34
Gradascica	2621.660	PF 5	tovil_OS	5.00	292.31	293.93		293.96	0.001182	0.74	6.73	7.61	0.25
Gradascica	2621.660	PF 5	PS_2018	5.00	292.31	293.90		293.93	0.001269	0.76	6.55	7.52	0.26
Gradascica	2621.660	PF 10	tovil_OS	10.00	292.31	294.33		294.38	0.001576	0.99	10.12	9.81	0.30
Gradascica	2621.660	PF 10	PS_2018	10.00	292.31	294.28		294.33	0.001798	1.04	9.64	9.02	0.32
Gradascica	2621.660	PF 15	tovil_OS	15.00	292.31	294.62		294.68	0.001695	1.13	14.62	26.21	0.32
Gradascica	2621.660	PF 15	PS_2018	15.00	292.31	294.56		294.63	0.002029	1.20	13.24	18.91	0.35
Gradascica	2580.700	PF 5	tovil_OS	5.00	292.28	293.87		293.90	0.001578	0.72	7.72	17.80	0.28
Gradascica	2580.700	PF 5	PS_2018	5.00	292.28	293.84		293.87	0.001837	0.77	7.19	16.57	0.30
Gradascica	2580.700	PF 10	tovil_OS	10.00	292.28	294.31		294.33	0.000741	0.68	18.45	28.90	0.21
Gradascica	2580.700	PF 10	PS_2018	10.00	292.28	294.25		294.27	0.000996	0.76	16.61	28.90	0.24
Gradascica	2580.700	PF 15	tovil_OS	15.00	292.28	294.61		294.63	0.000521	0.67	27.27	28.90	0.18
Gradascica	2580.700	PF 15	PS_2018	15.00	292.28	294.55		294.57	0.000647	0.73	25.41	28.90	0.20
Gradascica	2530.700	PF 5	tovil_OS	5.00	292.13	293.81		293.83	0.001255	0.59	8.82	18.29	0.25
Gradascica	2530.700	PF 5	PS_2018	5.00	292.13	293.76		293.78	0.001653	0.65	7.95	17.95	0.28
Gradascica	2530.700	PF 10	tovil_OS	10.00	292.13	294.28		294.30	0.000480	0.53	21.60	30.40	0.17
Gradascica	2530.700	PF 10	PS_2018	10.00	292.13	294.21		294.23	0.000655	0.59	19.39	30.40	0.19
Gradascica	2530.700	PF 15	tovil_OS	15.00	292.13	294.60		294.61	0.000362	0.55	31.08	30.40	0.15
Gradascica	2530.700	PF 15	PS_2018	15.00	292.13	294.53		294.54	0.000448	0.59	28.99	30.40	0.17
Gradascica	2482.70	PF 5	tovil_OS	5.00	292.10	293.73	292.97	293.76	0.001522	0.77	6.53	8.60	0.28

HEC-RAS River: Mestna Reach: Gradascica (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gradascica	2482.70	PF 5	PS_2018	5.00	292.10	293.66	292.97	293.69	0.001826	0.84	5.97	7.83	0.31
Gradascica	2482.70	PF 10	tovil_OS	10.00	292.10	294.22	293.31	294.26	0.001230	0.85	12.54	30.10	0.26
Gradascica	2482.70	PF 10	PS_2018	10.00	292.10	294.13	293.31	294.17	0.001665	0.94	10.77	14.81	0.30
Gradascica	2482.70	PF 15	tovil_OS	15.00	292.10	294.55	293.58	294.58	0.000790	0.81	22.51	30.10	0.22
Gradascica	2482.70	PF 15	PS_2018	15.00	292.10	294.47	293.58	294.51	0.001061	0.91	20.02	30.10	0.25
Gradascica	2481			Bridge									
Gradascica	2480.700	PF 5	tovil_OS	5.00	292.10	293.72		293.75	0.001536	0.77	6.50	8.56	0.28
Gradascica	2480.700	PF 5	PS_2018	5.00	292.10	293.65		293.69	0.001846	0.84	5.94	7.78	0.31
Gradascica	2480.700	PF 10	tovil_OS	10.00	292.10	294.19		294.23	0.001363	0.88	11.72	18.04	0.27
Gradascica	2480.700	PF 10	PS_2018	10.00	292.10	294.10		294.15	0.001820	0.97	10.37	14.80	0.31
Gradascica	2480.700	PF 15	tovil_OS	15.00	292.10	294.54		294.57	0.000810	0.82	22.30	30.10	0.22
Gradascica	2480.700	PF 15	PS_2018	15.00	292.10	294.46		294.49	0.001114	0.92	19.62	30.10	0.26
Gradascica	2430.700	PF 5	tovil_OS	5.00	292.04	293.61		293.66	0.002633	0.97	5.14	6.73	0.36
Gradascica	2430.700	PF 5	PS_2018	5.00	292.04	293.50		293.56	0.003727	1.12	4.45	6.05	0.42
Gradascica	2430.700	PF 10	tovil_OS	10.00	292.04	294.09		294.14	0.002415	1.02	10.02	14.65	0.36
Gradascica	2430.700	PF 10	PS_2018	10.00	292.04	293.94		294.02	0.004065	1.24	8.10	11.59	0.45
Gradascica	2430.700	PF 15	tovil_OS	15.00	292.04	294.49		294.53	0.001204	0.92	19.04	29.55	0.27
Gradascica	2430.700	PF 15	PS_2018	15.00	292.04	294.37		294.43	0.001873	1.07	15.67	27.84	0.33
Gradascica	2406.450	PF 5	tovil_OS	5.00	292.00	293.57	292.92	293.60	0.001645	0.85	5.85	6.63	0.29
Gradascica	2406.450	PF 5	PS_2018	5.00	292.00	293.44	292.92	293.49	0.002543	1.00	5.01	6.30	0.36
Gradascica	2406.450	PF 10	tovil_OS	10.00	292.00	294.03	293.24	294.09	0.001872	1.09	9.18	7.71	0.32
Gradascica	2406.450	PF 10	PS_2018	10.00	292.00	293.86	293.24	293.94	0.002856	1.27	7.88	7.31	0.39
Gradascica	2406.450	PF 15	tovil_OS	15.00	292.00	294.41	293.48	294.49	0.001900	1.21	12.77	16.29	0.33
Gradascica	2406.450	PF 15	PS_2018	15.00	292.00	294.28	293.48	294.37	0.002487	1.34	11.17	8.47	0.37
Gradascica	2400			Bridge									
Gradascica	2396.45	PF 5	tovil_OS	5.00	292.00	293.55		293.59	0.001747	0.87	5.73	6.58	0.30
Gradascica	2396.45	PF 5	PS_2018	5.00	292.00	293.40		293.46	0.002833	1.04	4.82	6.20	0.38
Gradascica	2396.45	PF 10	tovil_OS	10.00	292.00	293.94		294.01	0.002329	1.18	8.48	7.50	0.35
Gradascica	2396.45	PF 10	PS_2018	10.00	292.00	293.80		293.89	0.003322	1.34	7.47	7.17	0.42
Gradascica	2396.45	PF 15	tovil_OS	15.00	292.00	294.18		294.29	0.003030	1.45	10.36	8.11	0.41
Gradascica	2396.45	PF 15	PS_2018	15.00	292.00	294.04		294.18	0.004078	1.62	9.28	7.74	0.47
Gradascica	2345.580	PF 5	tovil_OS	5.00	291.95	293.44		293.48	0.002451	0.93	5.39	7.54	0.35

HEC-RAS River: Mestna Reach: Gradascica (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gradascica	2345.580	PF 5	PS_2018	5.00	291.95	293.21		293.29	0.003659	1.29	3.86	5.85	0.51
Gradascica	2345.580	PF 10	tovil_OS	10.00	291.95	293.81		293.88	0.002856	1.13	9.07	13.29	0.39
Gradascica	2345.580	PF 10	PS_2018	10.00	291.95	293.58		293.70	0.004275	1.53	6.54	8.83	0.57
Gradascica	2345.580	PF 15	tovil_OS	15.00	291.95	294.05		294.13	0.002818	1.24	13.07	20.11	0.40
Gradascica	2345.580	PF 15	PS_2018	15.00	291.95	293.83		293.97	0.004080	1.65	9.33	13.70	0.57
Gradascica	2286.260	PF 5	tovil_OS	5.00	291.87	293.18		293.27	0.005315	1.35	3.70	5.88	0.50
Gradascica	2286.260	PF 5	PS_2018	5.00	291.87	293.01	292.70	293.08	0.003403	1.21	4.12	6.82	0.50
Gradascica	2286.260	PF 10	tovil_OS	10.00	291.87	293.62		293.70	0.003071	1.32	8.69	11.71	0.40
Gradascica	2286.260	PF 10	PS_2018	10.00	291.87	293.35	293.00	293.46	0.003552	1.46	6.86	8.91	0.53
Gradascica	2286.260	PF 15	tovil_OS	15.00	291.87	293.85		293.95	0.003098	1.50	11.40	11.71	0.41
Gradascica	2286.260	PF 15	PS_2018	15.00	291.87	293.62	293.22	293.75	0.003213	1.62	9.24	9.00	0.51
Gradascica	2283.260	PF 5	tovil_OS	5.00	291.83	293.17		293.25	0.004716	1.26	3.96	5.47	0.47
Gradascica	2283.260	PF 5	PS_2018	5.00	291.83	293.00		293.07	0.002910	1.14	4.38	7.04	0.46
Gradascica	2283.260	PF 10	tovil_OS	10.00	291.83	293.62		293.69	0.002899	1.18	9.95	17.65	0.39
Gradascica	2283.260	PF 10	PS_2018	10.00	291.83	293.35		293.45	0.003097	1.39	7.19	9.00	0.50
Gradascica	2283.260	PF 15	tovil_OS	15.00	291.83	293.87		293.93	0.002367	1.22	14.28	17.65	0.36
Gradascica	2283.260	PF 15	PS_2018	15.00	291.83	293.58		293.72	0.003165	1.62	9.29	9.00	0.51
Gradascica	2261.500	PF 5	tovil_OS	5.00	291.75	293.13		293.17	0.002249	0.96	5.23	5.33	0.31
Gradascica	2261.500	PF 5	PS_2018	5.00	291.75	292.95		293.01	0.002641	1.10	4.54	7.18	0.44
Gradascica	2261.500	PF 10	tovil_OS	10.00	291.75	293.52		293.61	0.003967	1.33	7.54	8.85	0.42
Gradascica	2261.500	PF 10	PS_2018	10.00	291.75	293.29		293.38	0.002889	1.36	7.35	9.00	0.48
Gradascica	2261.500	PF 15	tovil_OS	15.00	291.75	293.72		293.85	0.004758	1.62	9.82	12.15	0.46
Gradascica	2261.500	PF 15	PS_2018	15.00	291.75	293.52		293.65	0.003024	1.59	9.43	9.00	0.50
Gradascica	2259.590	PF 5	tovil_OS	5.00	291.80	293.12		293.17	0.002035	0.92	5.46	5.70	0.30
Gradascica	2259.590	PF 5	PS_2018	5.00	291.80	292.92		293.00	0.003633	1.24	4.02	6.73	0.51
Gradascica	2259.590	PF 10	tovil_OS	10.00	291.80	293.52		293.60	0.003381	1.28	7.82	7.18	0.39
Gradascica	2259.590	PF 10	PS_2018	10.00	291.80	293.26		293.37	0.003873	1.51	6.64	8.76	0.55
Gradascica	2259.590	PF 15	tovil_OS	15.00	291.80	293.72		293.84	0.005316	1.59	9.44	9.10	0.50
Gradascica	2259.590	PF 15	PS_2018	15.00	291.80	293.49		293.64	0.003876	1.73	8.69	9.00	0.56
Gradascica	2236.640	PF 5	tovil_OS	5.00	291.78	293.06		293.11	0.003521	0.95	5.24	6.82	0.35
Gradascica	2236.640	PF 5	PS_2018	5.00	291.78	292.71	292.61	292.87	0.008991	1.76	2.85	5.58	0.78
Gradascica	2236.640	PF 10	tovil_OS	10.00	291.78	293.47		293.52	0.002547	1.03	10.76	15.00	0.31
Gradascica	2236.640	PF 10	PS_2018	10.00	291.78	293.03	292.91	293.24	0.008467	2.02	4.94	7.50	0.80
Gradascica	2236.640	PF 15	tovil_OS	15.00	291.78	293.67		293.74	0.002802	1.19	13.77	15.00	0.33

HEC-RAS River: Mestna Reach: Gradascica (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gradascica	2236.640	PF 15	PS_2018	15.00	291.78	293.25	293.13	293.50	0.008294	2.22	6.77	8.84	0.81
Gradascica	2235.320	PF 5	tovil_OS	5.00	291.78	292.85	292.62	293.08	0.015158	2.11	2.37	2.46	0.69
Gradascica	2235.320	PF 5	PS_2018	5.00	291.78	292.62	292.61	292.85	0.014652	2.12	2.36	5.03	0.99
Gradascica	2235.320	PF 10	tovil_OS	10.00	291.78	293.45	293.18	293.52	0.004286	1.27	9.26	17.50	0.42
Gradascica	2235.320	PF 10	PS_2018	10.00	291.78	292.91	292.91	293.22	0.013755	2.43	4.11	6.80	1.00
Gradascica	2235.320	PF 15	tovil_OS	15.00	291.78	293.66	293.66	293.73	0.003602	1.34	12.96	17.50	0.40
Gradascica	2235.320	PF 15	PS_2018	15.00	291.78	293.13	293.13	293.48	0.013014	2.63	5.71	8.09	1.00
Gradascica	2223.930	PF 5	tovil_OS	5.00	291.59	292.72	292.41	292.91	0.012125	1.94	2.58	2.52	0.61
Gradascica	2223.930	PF 5	PS_2018	5.00	291.61	292.44	292.44	292.68	0.015333	2.16	2.32	4.98	1.01
Gradascica	2223.930	PF 10	tovil_OS	10.00	291.59	293.02	293.02	293.39	0.028127	2.67	3.75	5.22	1.00
Gradascica	2223.930	PF 10	PS_2018	10.00	291.61	292.74	292.74	293.05	0.013762	2.43	4.11	6.80	1.00
Gradascica	2223.930	PF 15	tovil_OS	15.00	291.59	293.37	293.37	293.64	0.015194	2.37	7.07	13.18	0.78
Gradascica	2223.930	PF 15	PS_2018	15.00	291.61	292.96	292.96	293.31	0.012982	2.63	5.71	8.10	1.00
Gradascica	2209.190	PF 5	tovil_OS	5.00	291.47	292.26	292.26	292.63	0.030140	2.70	1.85	2.53	1.01
Gradascica	2209.190	PF 5	PS_2018	5.00	291.27	292.13	292.10	292.34	0.012908	2.02	2.48	5.17	0.93
Gradascica	2209.190	PF 10	tovil_OS	10.00	291.47	292.82	292.82	292.95	0.009674	1.91	7.54	23.29	0.58
Gradascica	2209.190	PF 10	PS_2018	10.00	291.27	292.49	292.49	292.72	0.009638	2.13	4.70	7.31	0.85
Gradascica	2209.190	PF 15	tovil_OS	15.00	291.47	293.05	293.05	293.13	0.004800	1.53	13.03	23.29	0.42
Gradascica	2209.190	PF 15	PS_2018	15.00	291.27	292.74	292.74	292.99	0.008279	2.22	6.77	8.85	0.81
Gradascica	2190.890	PF 5	tovil_OS	5.00	290.98	292.27	292.27	292.34	0.003884	1.22	4.11	5.21	0.44
Gradascica	2190.890	PF 5	PS_2018	5.00	291.00	292.09	292.09	292.18	0.004138	1.31	3.83	6.55	0.55
Gradascica	2190.890	PF 10	tovil_OS	10.00	290.98	292.64	292.64	292.76	0.004906	1.53	7.14	13.25	0.51
Gradascica	2190.890	PF 10	PS_2018	10.00	291.00	292.46	292.46	292.58	0.003811	1.50	6.68	8.78	0.55
Gradascica	2190.890	PF 15	tovil_OS	15.00	290.98	292.95	292.95	293.05	0.003467	1.48	11.48	14.20	0.44
Gradascica	2190.890	PF 15	PS_2018	15.00	291.00	292.73	292.73	292.87	0.003420	1.66	9.05	9.00	0.53
Gradascica	2173.320	PF 5	tovil_OS	5.00	290.96	292.20	292.20	292.27	0.004680	1.19	4.20	6.55	0.47
Gradascica	2173.320	PF 5	PS_2018	5.00	290.87	292.05	292.05	292.11	0.002857	1.13	4.41	7.06	0.46
Gradascica	2173.320	PF 10	tovil_OS	10.00	290.96	292.56	292.56	292.67	0.004702	1.47	6.80	7.66	0.50
Gradascica	2173.320	PF 10	PS_2018	10.00	290.87	292.42	292.42	292.51	0.002734	1.34	7.49	9.00	0.47
Gradascica	2173.320	PF 15	tovil_OS	15.00	290.96	292.84	292.84	292.98	0.004786	1.66	9.01	8.50	0.52
Gradascica	2173.320	PF 15	PS_2018	15.00	290.87	292.69	292.69	292.81	0.002604	1.52	9.90	9.00	0.46
Gradascica	2125.260	PF 5	tovil_OS	5.00	290.68	291.56	291.56	291.82	0.023125	2.27	2.21	4.31	1.01
Gradascica	2125.260	PF 5	PS_2018	5.00	290.68	291.56	291.56	291.82	0.015741	2.27	2.21	4.31	1.01

HEC-RAS River: Mestna Reach: Gradascica (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gradascica	2125.260	PF 10	tovil_OS	10.00	290.68	291.89	291.89	292.24	0.020637	2.60	3.85	5.62	1.00
Gradascica	2125.260	PF 10	PS_2018	10.00	290.68	291.89	291.89	292.24	0.014045	2.60	3.85	5.62	1.00
Gradascica	2125.260	PF 15	tovil_OS	15.00	290.68	292.13	292.13	292.54	0.019529	2.82	5.32	6.57	1.00
Gradascica	2125.260	PF 15	PS_2018	15.00	290.68	292.13	292.13	292.54	0.013292	2.82	5.32	6.57	1.00
Gradascica	2099.780	PF 5	tovil_OS	5.00	290.07	290.83	290.75	290.94	0.013370	1.50	3.33	8.19	0.75
Gradascica	2099.780	PF 5	PS_2018	5.00	290.07	290.83	290.75	290.94	0.013374	1.50	3.33	8.19	0.75
Gradascica	2099.780	PF 10	tovil_OS	10.00	290.07	291.19		291.31	0.006867	1.54	6.49	9.20	0.59
Gradascica	2099.780	PF 10	PS_2018	10.00	290.07	291.19		291.31	0.006866	1.54	6.49	9.20	0.59
Gradascica	2099.780	PF 15	tovil_OS	15.00	290.07	291.55		291.67	0.004285	1.50	9.98	10.19	0.48
Gradascica	2099.780	PF 15	PS_2018	15.00	290.07	291.55		291.67	0.004284	1.50	9.98	10.19	0.48
Gradascica	2098.720	PF 5	tovil_OS	5.00	290.04	290.73	290.73	290.92	0.024807	1.90	2.64	7.21	1.00
Gradascica	2098.720	PF 5	PS_2018	5.00	290.04	290.73	290.73	290.92	0.024807	1.90	2.64	7.21	1.00
Gradascica	2098.720	PF 10	tovil_OS	10.00	290.04	291.16		291.30	0.008253	1.68	5.96	8.44	0.64
Gradascica	2098.720	PF 10	PS_2018	10.00	290.04	291.16		291.30	0.008253	1.68	5.96	8.44	0.64
Gradascica	2098.720	PF 15	tovil_OS	15.00	290.04	291.52		291.66	0.005118	1.62	9.24	9.50	0.53
Gradascica	2098.720	PF 15	PS_2018	15.00	290.04	291.52		291.66	0.005118	1.62	9.24	9.50	0.53
Gradascica	2086.790	PF 5	tovil_OS	5.00	289.44	290.73		290.77	0.001877	0.87	5.73	6.81	0.30
Gradascica	2086.790	PF 5	PS_2018	5.00	289.44	290.73		290.77	0.001876	0.87	5.73	6.81	0.30
Gradascica	2086.790	PF 10	tovil_OS	10.00	289.44	291.17		291.23	0.002097	1.11	9.03	8.12	0.34
Gradascica	2086.790	PF 10	PS_2018	10.00	289.44	291.17		291.23	0.002097	1.11	9.03	8.12	0.34
Gradascica	2086.790	PF 15	tovil_OS	15.00	289.44	291.53		291.60	0.002105	1.24	12.10	9.18	0.34
Gradascica	2086.790	PF 15	PS_2018	15.00	289.44	291.53		291.60	0.002105	1.24	12.10	9.18	0.34
Gradascica	2050.310	PF 5	tovil_OS	5.00	289.38	290.65		290.69	0.002141	0.91	5.49	6.80	0.32
Gradascica	2050.310	PF 5	PS_2018	5.00	289.38	290.65		290.69	0.002141	0.91	5.49	6.80	0.32
Gradascica	2050.310	PF 10	tovil_OS	10.00	289.38	291.08		291.15	0.002354	1.14	8.78	8.34	0.35
Gradascica	2050.310	PF 10	PS_2018	10.00	289.38	291.08		291.15	0.002354	1.14	8.78	8.34	0.35
Gradascica	2050.310	PF 15	tovil_OS	15.00	289.38	291.44		291.52	0.002444	1.24	12.06	10.47	0.37
Gradascica	2050.310	PF 15	PS_2018	15.00	289.38	291.44		291.52	0.002444	1.24	12.06	10.47	0.37
Gradascica	2027.790	PF 5	tovil_OS	5.00	289.36	290.59		290.64	0.002627	0.96	5.19	6.95	0.36
Gradascica	2027.790	PF 5	PS_2018	5.00	289.36	290.59		290.64	0.002627	0.96	5.19	6.95	0.36
Gradascica	2027.790	PF 10	tovil_OS	10.00	289.36	291.03		291.09	0.002664	1.15	8.69	9.16	0.38
Gradascica	2027.790	PF 10	PS_2018	10.00	289.36	291.03		291.09	0.002664	1.15	8.69	9.16	0.38
Gradascica	2027.790	PF 15	tovil_OS	15.00	289.36	291.39		291.47	0.002338	1.21	12.36	10.97	0.37
Gradascica	2027.790	PF 15	PS_2018	15.00	289.36	291.39		291.47	0.002338	1.21	12.36	10.97	0.37

HEC-RAS River: Mestna Reach: Gradascica (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gradascica	2024.410	PF 5	tovil_OS	5.00	289.37	290.59	290.06	290.63	0.002002	0.85	5.86	7.88	0.32
Gradascica	2024.410	PF 5	PS_2018	5.00	289.37	290.59	290.06	290.63	0.002002	0.85	5.86	7.88	0.32
Gradascica	2024.410	PF 10	tovil_OS	10.00	289.37	291.03	290.34	291.08	0.002001	1.02	9.85	10.30	0.33
Gradascica	2024.410	PF 10	PS_2018	10.00	289.37	291.03	290.34	291.08	0.002001	1.02	9.85	10.30	0.33
Gradascica	2024.410	PF 15	tovil_OS	15.00	289.37	291.40	290.55	291.45	0.002000	1.07	14.07	13.91	0.34
Gradascica	2024.410	PF 15	PS_2018	15.00	289.37	291.40	290.55	291.45	0.002000	1.07	14.07	13.91	0.34