































HEC-RAS Plan: 20at Profile: Max WS

River	Reach	River Sta	Profile	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
Tazzera	Tazzera	31	Max WS	23.49	11.70	14.26		14.47	0.003566	2.13	12.57	12.00	0.53
Tazzera	Tazzera	30.9	Max WS	23.49	11.70	14.26		14.46	0.003586	2.14	12.54	12.00	0.53
Tazzera	Tazzera	30.1	Max WS	23.49	11.71	13.99		14.52	0.004424	3.25	7.22	4.48	0.82
Tazzera	Tazzera	30	Max WS	23.49	11.71	13.97		14.52	0.004504	3.27	7.18	4.48	0.83
Tazzera	Tazzera	29.5	Max WS	23.49	11.71	13.95		14.51	0.004741	3.33	7.04	4.48	0.85
Tazzera	Tazzera	29.49	Max WS	23.49	11.71	13.93		14.51	0.004834	3.36	7.00	4.48	0.86
Tazzera	Tazzera	29.4		Lat Struct									
Tazzera	Tazzera	29.2		Lat Struct									
Tazzera	Tazzera	29	Max WS	21.47	11.64	13.97		14.03	0.001401	1.21	20.73	21.90	0.33
Tazzera	Tazzera	28	Max WS	12.98	11.39	13.68		13.85	0.003522	1.81	7.16	3.52	0.41
Tazzera	Tazzera	27.51	Max WS	13.74	11.41	13.60		13.81	0.001885	2.06	6.66	3.21	0.46
Tazzera	Tazzera	27.5	Max WS	13.74	11.41	13.59	12.74	13.81	0.001890	2.07	6.65	3.21	0.46
Tazzera	Tazzera	27.3		Bridge									
Tazzera	Tazzera	27	Max WS	13.74	11.41	12.98		13.42	0.004768	2.94	4.67	3.18	0.77
Tazzera	Tazzera	26.9	Max WS	13.74	11.41	12.97		13.41	0.004861	2.96	4.64	3.18	0.78
Tazzera	Tazzera	26.6		Lat Struct									
Tazzera	Tazzera	26.4		Lat Struct									
Tazzera	Tazzera	26	Max WS	13.74	11.10	13.16		13.33	0.003860	1.81	7.61	6.82	0.55
Tazzera	Tazzera	25	Max WS	13.38	11.15	12.94		13.09	0.003503	1.74	8.39	12.86	0.53
Tazzera	Tazzera	24	Max WS	9.43	10.93	12.93		12.99	0.002414	1.08	8.72	13.01	0.42
Tazzera	Tazzera	23.51	Max WS	9.43	10.80	12.89		12.97	0.000641	1.28	7.38	4.12	0.30
Tazzera	Tazzera	23.5	Max WS	9.43	10.80	12.89	11.91	12.97	0.000642	1.28	7.38	4.12	0.31
Tazzera	Tazzera	23.3		Bridge									
Tazzera	Tazzera	23	Max WS	9.43	10.80	12.77		12.87	0.000774	1.37	6.88	4.12	0.34
Tazzera	Tazzera	22.9	Max WS	9.43	10.80	12.77		12.87	0.000775	1.37	6.88	4.12	0.34
Tazzera	Tazzera	22.6		Lat Struct									
Tazzera	Tazzera	22.4		Lat Struct									
Tazzera	Tazzera	22	Max WS	9.43	11.08	12.77		12.85	0.002018	1.25	7.52	7.44	0.40
Tazzera	Tazzera	21	Max WS	9.43	10.06	12.31		12.36	0.001277	1.04	9.10	8.36	0.32
Tazzera	Tazzera	20	Max WS	5.18	9.62	12.22		12.22	0.000084	0.26	20.49	21.80	0.08
Tazzera	Tazzera	19.51	Max WS	4.80	11.29	12.07		12.22	0.002678	1.72	2.79	3.62	0.63
Tazzera	Tazzera	19.5	Max WS	4.80	11.29	12.07	11.86	12.22	0.002726	1.73	2.77	3.62	0.63
Tazzera	Tazzera	19.3		Bridge									
Tazzera	Tazzera	19	Max WS	4.80	11.29	11.95		12.16	0.004380	2.03	2.36	3.62	0.80
Tazzera	Tazzera	18.9	Max WS	4.80	11.29	11.95	11.86	12.16	0.004366	2.03	2.37	3.62	0.80
Tazzera	Tazzera	18.5		Int Struct									
Tazzera	Tazzera	18	Max WS	4.76	10.10	10.83		10.99	0.007828	1.76	2.70	4.08	0.69
Tazzera	Tazzera	17.6		Lat Struct									
Tazzera	Tazzera	17.4		Lat Struct									
Tazzera	Tazzera	17	Max WS	4.77	9.40	10.90		10.94	0.001333	0.96	4.98	4.15	0.28
Tazzera	Tazzera	16	Max WS	4.77	9.79	10.89		10.94	0.001451	0.96	4.98	5.41	0.32
Tazzera	Tazzera	15.1	Max WS	4.75	9.15	10.58		10.65	0.002195	1.17	4.06	4.13	0.38
Tazzera	Tazzera	15	Max WS	4.75	9.15	10.58		10.65	0.002210	1.17	4.05	4.12	0.38
Tazzera	Tazzera	14.5	Max WS	4.75	9.18	10.58	9.98	10.65	0.000785	1.15	4.12	3.60	0.34
Tazzera	Tazzera	14.3		Bridge									
Tazzera	Tazzera	14	Max WS	4.75	9.18	10.57		10.64	0.000793	1.16	4.10	3.60	0.35
Tazzera	Tazzera	13.9	Max WS	4.75	9.18	10.57		10.64	0.000795	1.16	4.10	3.60	0.35
Tazzera	Tazzera	13.6		Lat Struct									
Tazzera	Tazzera	13.4		Lat Struct									
Tazzera	Tazzera	13	Max WS	4.75	8.85	10.57		10.64	0.002181	1.16	4.11	4.01	0.36
Tazzera	Tazzera	12	Max WS	4.74	8.69	10.42		10.47	0.001385	0.94	5.02	5.28	0.31
Tazzera	Tazzera	11	Max WS	4.73	8.42	10.07		10.11	0.001131	0.87	5.42	5.40	0.28
Tazzera	Tazzera	10	Max WS	9.60	7.67	9.87		9.89	0.000628	0.68	14.53	16.38	0.23
Tazzera	Tazzera	9.1	Max WS	10.37	7.22	9.77		9.88	0.000918	1.47	7.05	2.97	0.30
Tazzera	Tazzera	9	Max WS	10.37	7.22	9.77	8.47	9.88	0.000918	1.47	7.05	2.97	0.30
Tazzera	Tazzera	8.7		Bridge									
Tazzera	Tazzera	8.5	Max WS	10.37	7.22	9.49		9.63	0.001260	1.67	6.21	2.97	0.37
Tazzera	Tazzera	8.49	Max WS	10.37	7.22	9.48		9.63	0.001270	1.68	6.19	2.97	0.37
Tazzera	Tazzera	8.1	Max WS	10.15	7.69	9.39		9.61	0.002350	2.08	4.89	2.97	0.52
Tazzera	Tazzera	8	Max WS	9.99	7.69	9.39	8.79	9.60	0.002291	2.05	4.88	2.97	0.51
Tazzera	Tazzera	7.7		Bridge									
Tazzera	Tazzera	7.5	Max WS	9.65	7.69	9.37		9.58	0.002197	2.00	4.82	2.97	0.50
Tazzera	Tazzera	7.49	Max WS	9.59	7.69	9.37		9.57	0.002180	1.99	4.81	2.97	0.50
Tazzera	Tazzera	7.4		Lat Struct									
Tazzera	Tazzera	7.2		Lat Struct									
Tazzera	Tazzera	7	Max WS	10.37	7.52	9.47		9.57	0.004614	1.42	7.32	11.54	0.57
Tazzera	Tazzera	6	Max WS	6.77	7.21	8.81		8.88	0.004989	1.20	5.64	12.25	0.56
Tazzera	Tazzera	5	Max WS	4.82	6.87	8.30		8.35	0.001982	0.94	5.11	7.94	0.38
Tazzera	Tazzera	4	Max WS	4.82	6.33	7.57		7.63	0.002492	1.08	4.47	6.69	0.42
Tazzera	Tazzera	3	Max WS	4.82	5.77	7.09		7.13	0.001196	0.85	5.63	7.02	0.30
Tazzera	Tazzera	2	Max WS	4.82	5.86	6.97		7.01	0.001385	0.86	5.58	7.86	0.33
Tazzera	Tazzera	1	Max WS	4.81	5.47	6.60	6.10	6.65	0.001506	0.92	5.24	7.02	0.34
Rio Leccio	Rio Leccio	44	Max WS	106.81	13.03	16.96		17.52	0.004887	3.31	32.24	13.16	0.68
Rio Leccio	Rio Leccio	43.9	Max WS	106.81	13.03	16.96		17.51	0.004894	3.31	32.23	13.16	0.68
Rio Leccio	Rio Leccio	43.6		Lat Struct									
Rio Leccio	Rio Leccio	43.4		Lat Struct									
Rio Leccio	Rio Leccio	43	Max WS	104.65	12.97	17.04		17.46	0.004735	2.85	36.71	19.42	0.66
Rio Leccio	Rio Leccio	42	Max WS	101.06	12.91	16.36		16.95	0.005550	3.42	29.51	13.20	0.73
Rio Leccio	Rio Leccio	41	Max WS	67.52	12.30	16.24		16.40	0.001635	1.78	38.02	19.07	0.40
Rio Leccio	Rio Leccio	40.1	Max WS	60.78	12.21	16.13		16.28	0.000717	1.76	34.57	18.14	0.41
Rio Leccio	Rio Leccio	40	Max WS	60.78	12.21	16.12	14.34	16.28	0.000718	1.76	34.55	18.14	0.41
Rio Leccio	Rio Leccio	39		Bridge									
Rio Leccio	Rio Leccio	38	Max WS	60.78	11.90	15.59		15.83	0.000911	2.19	27.73	12.52	0.47
Rio Leccio	Rio Leccio	37.9	Max WS	60.78	11.90	15.58		15.83	0.000912	2.19	27.72	12.52	0.47
Rio Leccio	Rio Leccio	37.6		Lat Struct									
Rio Leccio	Rio Leccio	37.4		Lat Struct									
Rio Leccio	Rio Leccio	37	Max WS	60.78	11.86	15.44		15.64	0.001796	1.97	30.87	12.90	0.41
Rio Leccio	Rio Leccio	36	Max WS	60.69	11.72	15.26		15.45	0.002108	1.92	31.56	16.02	0.44
Rio Leccio	Rio Leccio	35.1	Max WS	41.93	11.18	15.39		15.45	0.000170	1.06	39.55	15.68	0.21
Rio Leccio	Rio Leccio	35	Max WS	41.93	11.18	15.39	13.15	15.45	0.000170	1.06	39.55	15.68	0.21
Rio Leccio	Rio Leccio	34		Bridge									
Rio Leccio	Rio Leccio	33	Max WS	41.93	11.38	14.84		14.96	0.000439	1.53	27.43	13.17	0.34

HEC-RAS Plan: 20at Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Rio Leccio	Rio Leccio	32.9	Max WS	41.93	11.38	14.84		14.96	0.000439	1.53	27.42	13.15	0.34
Rio Leccio	Rio Leccio	32.6	Lat Struct										
Rio Leccio	Rio Leccio	32.4	Lat Struct										
Rio Leccio	Rio Leccio	32	Max WS	40.79	11.36	14.84		14.95	0.000942	1.45	28.05	11.13	0.29
Rio Leccio	Rio Leccio	31	Max WS	36.11	10.98	14.79		14.91	0.001418	1.53	23.59	11.19	0.34
Rio Leccio	Rio Leccio	30	Max WS	36.11	10.98	14.82		14.91	0.000970	1.39	25.99	11.22	0.29
Rio Leccio	Rio Leccio	29.1	Max WS	35.52	11.47	14.80		14.89	0.000325	1.32	26.96	12.70	0.29
Rio Leccio	Rio Leccio	29	Max WS	35.52	11.47	14.80	13.20	14.89	0.000326	1.32	26.96	12.70	0.29
Rio Leccio	Rio Leccio	28	Bridge										
Rio Leccio	Rio Leccio	27	Max WS	35.52	11.16	14.53		14.63	0.000362	1.40	25.42	11.78	0.30
Rio Leccio	Rio Leccio	26.9	Max WS	35.52	11.16	14.53		14.63	0.000362	1.40	25.42	11.78	0.30
Rio Leccio	Rio Leccio	26.6	Lat Struct										
Rio Leccio	Rio Leccio	26.4	Lat Struct										
Rio Leccio	Rio Leccio	26.1	Max WS	35.38	11.00	14.49		14.59	0.000416	1.41	25.08	12.41	0.32
Rio Leccio	Rio Leccio	26	Max WS	35.38	11.00	14.49	12.83	14.59	0.000416	1.41	25.07	12.41	0.32
Rio Leccio	Rio Leccio	25	Bridge										
Rio Leccio	Rio Leccio	24	Max WS	35.38	11.00	14.21		14.34	0.000514	1.62	21.84	10.30	0.35
Rio Leccio	Rio Leccio	23.9	Max WS	35.38	11.00	14.21		14.34	0.000515	1.62	21.84	10.29	0.36
Rio Leccio	Rio Leccio	23.8	Max WS	35.38	11.00	14.20		14.34	0.000517	1.62	21.80	10.29	0.36
Rio Leccio	Rio Leccio	23.7	Max WS	35.38	11.00	14.20	12.84	14.34	0.000517	1.62	21.79	10.28	0.36
Rio Leccio	Rio Leccio	23	Bridge										
Rio Leccio	Rio Leccio	22	Max WS	35.38	10.94	14.08		14.21	0.000508	1.59	22.20	10.54	0.35
Rio Leccio	Rio Leccio	21.6	Lat Struct										
Rio Leccio	Rio Leccio	21.4	Lat Struct										
Rio Leccio	Rio Leccio	21	Max WS	35.38	10.57	14.01		14.13	0.001248	1.51	23.50	11.51	0.34
Rio Leccio	Rio Leccio	20.1	Max WS	34.75	10.27	13.83		13.94	0.001181	1.46	23.82	11.70	0.33
Rio Leccio	Rio Leccio	20	Max WS	34.75	10.27	13.83		13.94	0.001183	1.46	23.80	11.70	0.33
Rio Leccio	Rio Leccio	19.5	Max WS	34.75	10.26	13.80	12.28	13.94	0.000518	1.62	21.49	9.14	0.34
Rio Leccio	Rio Leccio	19.25	Bridge										
Rio Leccio	Rio Leccio	19	Max WS	34.75	10.26	13.65		13.80	0.000599	1.72	20.15	8.67	0.36
Rio Leccio	Rio Leccio	18.9	Max WS	34.75	10.26	13.65		13.80	0.000599	1.73	20.15	8.67	0.36
Rio Leccio	Rio Leccio	18.6	Lat Struct										
Rio Leccio	Rio Leccio	18.4	Lat Struct										
Rio Leccio	Rio Leccio	18	Max WS	34.75	10.43	13.64		13.78	0.001481	1.62	21.43	10.85	0.37
Rio Leccio	Rio Leccio	17	Max WS	34.75	10.12	13.54		13.64	0.000963	1.37	25.33	12.16	0.30
Rio Leccio	Rio Leccio	16	Max WS	34.75	10.17	13.32		13.44	0.001377	1.56	22.23	11.50	0.36
Rio Leccio	Rio Leccio	15	Max WS	32.39	9.67	12.95		13.07	0.001508	1.57	20.69	10.96	0.36
Rio Leccio	Rio Leccio	14.1	Max WS	30.01	9.34	12.97		13.04	0.000271	1.19	25.18	11.80	0.26
Rio Leccio	Rio Leccio	14	Max WS	30.01	9.34	12.97	11.27	13.04	0.000271	1.19	25.17	11.80	0.26
Rio Leccio	Rio Leccio	13	Bridge										
Rio Leccio	Rio Leccio	12	Max WS	30.01	9.83	12.57		12.71	0.000645	1.68	17.86	9.59	0.39
Rio Leccio	Rio Leccio	11.9	Max WS	30.01	9.83	12.57		12.71	0.000646	1.68	17.85	9.59	0.39
Rio Leccio	Rio Leccio	11.6	Lat Struct										
Rio Leccio	Rio Leccio	11.4	Lat Struct										
Rio Leccio	Rio Leccio	11	Max WS	30.01	9.55	12.57		12.67	0.001061	1.38	21.78	11.11	0.31
Rio Leccio	Rio Leccio	10	Max WS	30.01	9.37	12.48		12.56	0.000872	1.26	23.84	12.10	0.29
Rio Leccio	Rio Leccio	9.1	Max WS	30.01	9.44	12.51		12.55	0.000182	0.95	31.51	16.08	0.22
Rio Leccio	Rio Leccio	9	Max WS	30.01	9.44	12.51	10.72	12.55	0.000182	0.95	31.51	16.08	0.22
Rio Leccio	Rio Leccio	8.5	Bridge										
Rio Leccio	Rio Leccio	8	Max WS	30.01	9.38	12.40		12.45	0.000194	1.02	29.41	14.96	0.23
Rio Leccio	Rio Leccio	7.9	Max WS	30.01	9.38	12.40		12.45	0.000194	1.02	29.41	14.96	0.23
Rio Leccio	Rio Leccio	7.6	Lat Struct										
Rio Leccio	Rio Leccio	7.4	Lat Struct										
Rio Leccio	Rio Leccio	7	Max WS	30.01	9.56	12.38		12.45	0.000793	1.20	25.08	13.33	0.28
Rio Leccio	Rio Leccio	6	Max WS	30.01	8.98	12.26		12.35	0.001113	1.37	21.96	11.77	0.32
Rio Leccio	Rio Leccio	5.1	Max WS	30.01	9.19	12.20		12.31	0.000442	1.47	20.48	8.74	0.31
Rio Leccio	Rio Leccio	5	Max WS	30.01	9.19	12.20	10.71	12.31	0.000443	1.47	20.47	8.74	0.31
Rio Leccio	Rio Leccio	4	Bridge										
Rio Leccio	Rio Leccio	3	Max WS	30.00	9.09	11.87		12.01	0.000626	1.64	18.34	10.23	0.39
Rio Leccio	Rio Leccio	2.9	Max WS	30.00	9.09	11.87		12.01	0.000627	1.64	18.33	10.23	0.39
Rio Leccio	Rio Leccio	2.6	Lat Struct										
Rio Leccio	Rio Leccio	2.4	Lat Struct										
Rio Leccio	Rio Leccio	2	Max WS	29.05	8.73	11.78		11.90	0.001445	1.56	19.05	13.14	0.36
Rio Leccio	Rio Leccio	1	Max WS	22.67	9.07	11.73	10.51	11.81	0.001001	1.23	18.43	10.94	0.30
Ralla	Ralla	53	Max WS	18.04	17.44	19.66		19.76	0.002533	1.40	12.89	13.61	0.46
Ralla	Ralla	52.9	Max WS	18.04	17.44	19.66		19.76	0.002535	1.40	12.89	13.61	0.46
Ralla	Ralla	52.6	Lat Struct										
Ralla	Ralla	52.4	Lat Struct										
Ralla	Ralla	52	Max WS	18.03	16.55	18.77		18.91	0.003435	1.67	10.83	10.67	0.53
Ralla	Ralla	51	Max WS	18.02	15.49	17.75		17.91	0.003261	1.76	10.24	8.45	0.51
Ralla	Ralla	50	Max WS	18.02	14.95	17.05		17.23	0.003190	1.85	9.72	7.08	0.50
Ralla	Ralla	49.2	Max WS	18.02	14.83	17.13		17.20	0.000371	1.19	15.10	7.30	0.26
Ralla	Ralla	49.1	Max WS	18.02	14.83	17.13		17.20	0.000372	1.19	15.09	7.30	0.27
Ralla	Ralla	49	Max WS	18.02	14.83	17.13	15.85	17.20	0.000372	1.19	15.09	7.30	0.27
Ralla	Ralla	48.5	Bridge										
Ralla	Ralla	48	Max WS	18.02	14.90	16.63		16.91	0.002224	2.35	7.66	4.88	0.60
Ralla	Ralla	47.96	Lat Struct										
Ralla	Ralla	47.94	Lat Struct										
Ralla	Ralla	47.9	Max WS	18.02	14.90	16.63		16.91	0.002227	2.35	7.65	4.88	0.60
Ralla	Ralla	47.8	Max WS	18.02	14.90	16.62		16.91	0.002242	2.36	7.64	4.88	0.60
Ralla	Ralla	47	Max WS	18.02	14.69	16.66		16.85	0.003717	1.96	9.19	6.89	0.54
Ralla	Ralla	46	Max WS	18.00	13.97	16.14		16.29	0.002644	1.72	10.45	7.49	0.47
Ralla	Ralla	45	Max WS	16.38	13.43	15.56		15.70	0.002377	1.62	10.10	7.26	0.44
Ralla	Dezza	17.6	Max WS	8.36	17.01	18.33		18.57	0.004344	2.15	3.88	4.13	0.71
Ralla	Dezza	17.55	Max WS	8.36	17.01	18.33		18.57	0.004355	2.15	3.88	4.13	0.71
Ralla	Dezza	17.5	Max WS	8.36	17.01	18.33	18.10	18.56	0.001485	2.16	3.88	4.13	0.71
Ralla	Dezza	17.3	Bridge										
Ralla	Dezza	17	Max WS	8.36	17.01	18.22		18.52	0.002037	2.42	3.45	3.96	0.83
Ralla	Dezza	16.6	Lat Struct										
Ralla	Dezza	16.4	Lat Struct										
Ralla	Dezza	16	Max WS	8.36	17.26	18.17	18.17	18.52	0.008122	2.63	3.18	4.55	1.00
Ralla	Dezza	15.1	Max WS	8.36	17.36	18.00		18.21	0.001928	2.06	4.07	6.39	0.82



HEC-RAS Plan: 20at Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Ralla	Dezza	15	Max WS	8.36	17.36	17.99	17.92	18.21	0.001971	2.07	4.04	6.39	0.83
Ralla	Dezza	14.7	Bridge										
Ralla	Dezza	14.5	Max WS	8.36	17.36	17.84	17.92	18.22	0.004776	2.74	3.04	6.39	1.27
Ralla	Dezza	14.49	Max WS	8.36	17.36	17.83	17.92	18.22	0.004923	2.77	3.02	6.39	1.29
Ralla	Dezza	14.4	Lat Struct										
Ralla	Dezza	14.2	Lat Struct										
Ralla	Dezza	14	Max WS	8.35	16.48	17.69		17.87	0.003207	1.91	4.37	5.23	0.67
Ralla	Dezza	13	Max WS	8.34	15.15	16.60		16.73	0.001847	1.55	5.39	5.66	0.51
Ralla	Dezza	12	Max WS	8.34	15.11	16.35		16.65	0.005407	2.40	3.47	3.92	0.81
Ralla	Dezza	11.1	Max WS	8.34	15.03	16.36		16.64	0.001617	2.33	3.59	3.19	0.70
Ralla	Dezza	11	Max WS	8.34	15.03	16.36	16.11	16.64	0.001628	2.33	3.58	3.19	0.70
Ralla	Dezza	10.7	Bridge										
Ralla	Dezza	10.5	Max WS	8.34	15.03	16.37		16.64	0.001566	2.30	3.63	3.25	0.69
Ralla	Dezza	10.49	Max WS	8.34	15.03	16.37		16.64	0.001578	2.31	3.62	3.25	0.70
Ralla	Dezza	10.4	Lat Struct										
Ralla	Dezza	10.2	Lat Struct										
Ralla	Dezza	10	Max WS	8.34	15.06	16.38		16.61	0.004036	2.13	3.91	4.41	0.72
Ralla	Dezza	9	Max WS	8.34	14.71	16.19		16.35	0.002389	1.74	4.79	4.69	0.55
Ralla	Dezza	8	Max WS	8.33	14.45	15.93		16.10	0.002698	1.83	4.55	4.31	0.57
Ralla	Dezza	7	Max WS	8.33	14.45	15.95		16.10	0.002386	1.74	4.79	4.79	0.55
Ralla	Dezza	6	Max WS	8.25	14.32	15.63		15.79	0.002729	1.80	4.58	4.91	0.59
Ralla	Dezza	5.1	Max WS	8.30	14.20	15.71		15.79	0.000330	1.23	6.74	5.24	0.35
Ralla	Dezza	5	Max WS	8.30	14.20	15.71	15.03	15.79	0.000332	1.23	6.73	5.22	0.35
Ralla	Dezza	4.7	Bridge										
Ralla	Dezza	4.5	Max WS	8.30	14.20	15.70		15.78	0.000336	1.24	6.70	5.22	0.35
Ralla	Dezza	4.49	Max WS	8.30	14.20	15.70		15.78	0.000336	1.24	6.69	5.22	0.35
Ralla	Dezza	4.4	Lat Struct										
Ralla	Dezza	4.2	Lat Struct										
Ralla	Dezza	4	Max WS	8.27	13.88	15.66		15.76	0.001459	1.41	5.88	5.70	0.44
Ralla	Dezza	3	Max WS	7.64	13.64	15.54		15.62	0.000893	1.20	6.39	4.99	0.34
Ralla	Dezza	2.51	Max WS	7.94	13.43	15.57		15.60	0.000104	0.78	10.12	5.74	0.19
Ralla	Dezza	2.5	Max WS	7.96	13.43	15.57	14.35	15.60	0.000105	0.79	10.12	5.74	0.19
Ralla	Dezza	2.3	Bridge										
Ralla	Dezza	2	Max WS	7.94	13.43	15.57		15.60	0.000104	0.79	10.11	5.74	0.19
Ralla	Dezza	1.9	Max WS	7.93	13.43	15.57		15.60	0.000104	0.78	10.11	5.74	0.19
Ralla	Dezza	1.6	Lat Struct										
Ralla	Dezza	1.4	Lat Struct										
Ralla	Dezza	1.1	Max WS	7.88	13.12	15.56		15.59	0.000281	0.76	10.38	7.45	0.21
Ralla	Dezza	1	Max WS	7.88	13.12	15.56		15.59	0.000281	0.76	10.38	7.45	0.21
Ralla	Ralla valle	44.2	Max WS	24.26	13.43	15.56		15.73	0.000963	1.82	13.30	7.06	0.42
Ralla	Ralla valle	44.1	Max WS	24.26	13.43	15.56		15.73	0.000965	1.82	13.30	7.06	0.42
Ralla	Ralla valle	44	Max WS	24.26	13.43	15.56	14.73	15.73	0.000965	1.82	13.29	7.06	0.42
Ralla	Ralla valle	43.5	Bridge										
Ralla	Ralla valle	43	Max WS	24.26	13.20	15.64		15.73	0.000387	1.32	18.35	8.68	0.29
Ralla	Ralla valle	42.96	Lat Struct										
Ralla	Ralla valle	42.94	Lat Struct										
Ralla	Ralla valle	42.9	Max WS	24.26	13.20	15.64		15.73	0.000387	1.32	18.35	8.68	0.29
Ralla	Ralla valle	42.8	Max WS	24.26	13.20	15.64		15.73	0.000388	1.32	18.34	8.68	0.29
Ralla	Ralla valle	42	Max WS	24.25	13.19	15.47		15.71	0.003842	2.17	11.16	6.71	0.54
Ralla	Ralla valle	41	Max WS	24.24	12.32	15.25		15.31	0.000693	1.12	21.55	10.50	0.25
Ralla	Ralla valle	40	Max WS	24.23	11.81	15.09		15.17	0.000927	1.28	18.94	9.03	0.28
Ralla	Ralla valle	39.2	Max WS	24.23	12.12	15.10		15.16	0.000259	1.08	22.41	9.02	0.22
Ralla	Ralla valle	39.1	Max WS	24.23	12.12	15.10		15.16	0.000259	1.08	22.40	9.02	0.22
Ralla	Ralla valle	39	Max WS	24.23	12.12	15.10	13.52	15.16	0.000259	1.08	22.40	9.02	0.22
Ralla	Ralla valle	38.5	Bridge										
Ralla	Ralla valle	38	Max WS	24.23	12.17	15.11		15.16	0.000221	1.03	23.53	9.00	0.20
Ralla	Ralla valle	37.96	Lat Struct										
Ralla	Ralla valle	37.94	Lat Struct										
Ralla	Ralla valle	37.9	Max WS	24.23	12.17	15.11		15.16	0.000221	1.03	23.53	9.00	0.20
Ralla	Ralla valle	37.8	Max WS	24.23	12.17	15.11		15.16	0.000221	1.03	23.52	9.00	0.20
Ralla	Ralla valle	37	Max WS	24.23	12.05	15.06		15.16	0.000461	1.37	17.65	10.40	0.34
Ralla	Ralla valle	36	Max WS	24.22	11.73	14.98		15.04	0.000586	1.03	23.63	12.09	0.23
Ralla	Ralla valle	35	Max WS	24.22	11.30	14.80		14.88	0.000807	1.19	20.40	10.06	0.27
Ralla	Ralla valle	34.2	Max WS	22.09	11.49	14.80		14.86	0.000338	1.10	20.23	7.13	0.19
Ralla	Ralla valle	34.1	Max WS	22.09	11.49	14.80		14.86	0.000338	1.10	20.23	7.13	0.19
Ralla	Ralla valle	34	Max WS	22.09	11.49	14.80	12.63	14.86	0.000338	1.10	20.23	7.13	0.19
Ralla	Ralla valle	33.5	Bridge										
Ralla	Ralla valle	33	Max WS	22.07	11.43	14.67		14.74	0.000368	1.12	19.71	7.13	0.20
Ralla	Ralla valle	32.96	Lat Struct										
Ralla	Ralla valle	32.95	Max WS	22.05	11.43	14.67		14.74	0.000367	1.12	19.71	7.13	0.20
Ralla	Ralla valle	32.94	Lat Struct										
Ralla	Ralla valle	32.9	Max WS	20.41	11.43	14.68		14.74	0.000312	1.04	19.77	7.13	0.18
Ralla	Ralla valle	32	Max WS	20.40	11.33	14.68		14.74	0.000667	1.07	19.04	9.01	0.24
Ralla	Ralla valle	31	Max WS	20.39	10.99	14.57		14.62	0.000583	0.99	20.55	10.45	0.23
Ralla	Ralla valle	30	Max WS	20.39	10.46	14.47		14.50	0.000377	0.84	24.27	10.51	0.18
Ralla	Ralla valle	29.2	Max WS	20.39	11.03	14.45		14.50	0.000216	0.98	20.81	7.60	0.19
Ralla	Ralla valle	29.1	Max WS	20.39	11.03	14.45		14.50	0.000216	0.98	20.81	7.60	0.19
Ralla	Ralla valle	29	Max WS	20.39	11.03	14.45	12.37	14.50	0.000216	0.98	20.81	7.60	0.19
Ralla	Ralla valle	28.5	Bridge										
Ralla	Ralla valle	28	Max WS	20.38	11.08	14.30		14.33	0.000141	0.87	23.31	8.40	0.17
Ralla	Ralla valle	27.96	Lat Struct										
Ralla	Ralla valle	27.95	Max WS	20.38	11.08	14.30		14.33	0.000141	0.87	23.31	8.40	0.17
Ralla	Ralla valle	27.94	Lat Struct										
Ralla	Ralla valle	27.9	Max WS	20.38	11.08	14.30		14.33	0.000141	0.87	23.31	8.40	0.17
Ralla	Ralla valle	27	Max WS	20.38	10.92	14.27		14.33	0.000650	1.04	19.59	9.87	0.24
Ralla	Ralla valle	26	Max WS	20.38	10.89	14.12		14.20	0.001167	1.26	16.14	7.84	0.28
Ralla	Ralla valle	25	Max WS	20.37	10.50	13.86		13.92	0.000715	1.09	18.75	9.52	0.25
Ralla	Ralla valle	24	Max WS	20.37	10.39	13.70		13.77	0.000909	1.18	17.32	9.42	0.28
Ralla	Ralla valle	23	Max WS	20.37	10.40	13.58		13.65	0.000722	1.10	18.45	9.39	0.25
Ralla	Ralla valle	21	Max WS	20.37	10.56	13.55		13.63	0.000365	1.26	16.16	8.05	0.28
Ralla	Ralla valle	20.9	Max WS	20.37	10.56	13.54		13.63	0.000367	1.26	16.12	8.04	0.28
Ralla	Ralla valle	20.8	Max WS	20.37	10.56	13.54		13.62	0.000369	1.27	16.08	8.04	0.29

River	Reach	River Sta	Profile	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
Ralla	Ralla valle	20.75	Max WS	20.37	10.56	13.54		13.62	0.000371	1.27	16.05	8.03	0.29
Ralla	Ralla valle	20.7	Max WS	20.37	10.56	13.54	12.15	13.62	0.000372	1.27	16.04	8.03	0.29
Ralla	Ralla valle	20.5	Bridge										
Ralla	Ralla valle	20	Max WS	20.37	10.37	13.47		13.53	0.000215	1.03	19.69	8.68	0.22
Ralla	Ralla valle	19.9	Max WS	20.37	10.37	13.47		13.53	0.000215	1.03	19.68	8.68	0.22
Ralla	Ralla valle	19.6	Lat Struct										
Ralla	Ralla valle	19.4	Lat Struct										
Ralla	Ralla valle	19	Max WS	20.37	10.50	13.45		13.53	0.000921	1.24	16.48	7.68	0.27
Ralla	Ralla valle	18	Max WS	20.37	10.17	13.31		13.39	0.001017	1.24	16.43	9.10	0.29
Ralla	Ralla valle	17.1	Max WS	20.37	10.18	13.23		13.28	0.000200	0.98	20.79	10.62	0.22
Ralla	Ralla valle	17	Max WS	20.37	10.18	13.23	11.55	13.28	0.000200	0.98	20.79	10.62	0.22
Ralla	Ralla valle	16.5	Bridge										
Ralla	Ralla valle	16	Max WS	20.37	10.18	13.18		13.23	0.000216	1.01	20.22	10.49	0.23
Ralla	Ralla valle	15.9	Max WS	20.37	10.18	13.18		13.23	0.000216	1.01	20.21	10.49	0.23
Ralla	Ralla valle	15.6	Lat Struct										
Ralla	Ralla valle	15.4	Lat Struct										
Ralla	Ralla valle	15	Max WS	20.37	10.05	13.07		13.16	0.001209	1.33	15.34	8.68	0.32
Ralla	Ralla valle	14.1	Max WS	20.37	10.17	13.09		13.15	0.000271	1.11	18.34	6.81	0.22
Ralla	Ralla valle	14	Max WS	20.37	10.17	13.09	11.26	13.15	0.000271	1.11	18.33	6.81	0.22
Ralla	Ralla valle	13.5	Bridge										
Ralla	Ralla valle	13	Max WS	20.37	10.29	13.07		13.14	0.000304	1.15	17.65	6.83	0.23
Ralla	Ralla valle	12.9	Max WS	20.37	10.29	13.07		13.14	0.000304	1.15	17.65	6.83	0.23
Ralla	Ralla valle	12.6	Lat Struct										
Ralla	Ralla valle	12.4	Lat Struct										
Ralla	Ralla valle	12	Max WS	20.37	10.07	13.06		13.13	0.000870	1.19	17.10	8.73	0.27
Ralla	Ralla valle	11	Max WS	19.79	9.74	12.92		12.94	0.000313	0.73	30.52	19.03	0.17
Ralla	Ralla valle	10	Max WS	16.10	9.69	12.83		12.87	0.000433	0.85	19.02	9.93	0.20
Ralla	Ralla valle	9	Max WS	16.10	9.78	12.72		12.76	0.000486	0.88	18.26	10.17	0.21
Ralla	Ralla valle	8.1	Max WS	16.10	9.78	12.72		12.76	0.000163	0.87	18.50	8.10	0.18
Ralla	Ralla valle	8	Max WS	16.10	9.78	12.72	10.88	12.76	0.000163	0.87	18.50	8.10	0.18
Ralla	Ralla valle	7.5	Bridge										
Ralla	Ralla valle	7	Max WS	16.10	9.78	12.70		12.75	0.000197	0.93	17.26	8.87	0.21
Ralla	Ralla valle	6.9	Max WS	16.10	9.78	12.70		12.75	0.000197	0.93	17.25	8.87	0.21
Ralla	Ralla valle	6.6	Lat Struct										
Ralla	Ralla valle	6.4	Lat Struct										
Ralla	Ralla valle	6	Max WS	16.10	9.79	12.70		12.74	0.000513	0.91	17.76	9.66	0.21
Ralla	Ralla valle	5.1	Max WS	16.10	9.98	12.56		12.73	0.001115	1.82	8.87	5.06	0.44
Ralla	Ralla valle	5	Max WS	16.10	9.98	12.56	11.70	12.73	0.001118	1.82	8.86	5.06	0.44
Ralla	Ralla valle	4.5	Bridge										
Ralla	Ralla valle	4	Max WS	16.10	9.91	12.56		12.59	0.000176	0.84	19.21	10.81	0.20
Ralla	Ralla valle	3.9	Max WS	16.10	9.91	12.56		12.59	0.000176	0.84	19.20	10.81	0.20
Ralla	Ralla valle	3.6	Lat Struct										
Ralla	Ralla valle	3.4	Lat Struct										
Ralla	Ralla valle	3	Max WS	16.10	9.87	12.52		12.56	0.000591	0.93	17.26	10.24	0.23
Ralla	Ralla valle	2.1	Max WS	16.10	9.67	12.51		12.54	0.000112	0.73	22.02	9.07	0.15
Ralla	Ralla valle	2	Max WS	16.10	9.67	12.51	10.63	12.54	0.000112	0.73	22.02	9.07	0.15
Ralla	Ralla valle	1.5	Bridge										
Ralla	Ralla valle	1	Max WS	16.10	9.85	12.49		12.51	0.000092	0.67	23.87	9.35	0.13
Ralla	Ralla valle	.95	Max WS	16.10	9.85	12.49		12.51	0.000092	0.67	23.87	9.35	0.13
Ralla	Ralla valle	.66	Lat Struct										
Ralla	Ralla valle	.64	Lat Struct										
Ralla	Ralla valle	.55	Max WS	16.10	9.60	12.47		12.49	0.000195	0.62	26.11	9.45	0.12
Ralla	Ralla valle	0.5	Max WS	16.10	9.60	12.47		12.49	0.000195	0.62	26.11	9.45	0.12
Fossa Nuova	Fossa Nuova	151	Max WS	46.00	11.30	14.87		14.97	0.000934	1.40	33.77	19.21	0.30
Fossa Nuova	Fossa Nuova	150.99	Max WS	46.00	11.30	14.87		14.97	0.000935	1.40	33.76	19.21	0.30
Fossa Nuova	Fossa Nuova	150.6	Lat Struct										
Fossa Nuova	Fossa Nuova	150.4	Lat Struct										
Fossa Nuova	Fossa Nuova	150	Max WS	45.97	10.99	14.78		14.89	0.001140	1.52	30.34	13.65	0.32
Fossa Nuova	Fossa Nuova	149	Max WS	40.89	10.95	14.78		14.81	0.000301	0.85	55.46	29.11	0.17
Fossa Nuova	Fossa Nuova	146.01	Max WS	40.78	10.99	14.72		14.84	0.001224	1.57	25.98	6.98	0.26
Fossa Nuova	Fossa Nuova	146	Max WS	40.78	10.99	14.72	12.51	14.84	0.001225	1.57	25.97	6.98	0.26
Fossa Nuova	Fossa Nuova	145.5	Bridge										
Fossa Nuova	Fossa Nuova	145	Max WS	40.78	10.98	14.41		14.55	0.001445	1.67	24.41	7.13	0.29
Fossa Nuova	Fossa Nuova	144.9	Max WS	40.78	10.98	14.41		14.55	0.001447	1.67	24.39	7.13	0.29
Fossa Nuova	Fossa Nuova	144.6	Lat Struct										
Fossa Nuova	Fossa Nuova	144.4	Lat Struct										
Fossa Nuova	Fossa Nuova	144	Max WS	40.78	10.98	14.43		14.54	0.001016	1.46	27.84	11.31	0.30
Fossa Nuova	Fossa Nuova	143	Max WS	40.78	10.86	14.29		14.40	0.001031	1.46	28.01	12.72	0.31
Fossa Nuova	Fossa Nuova	142	Max WS	40.78	10.62	14.17		14.29	0.001167	1.49	27.32	13.18	0.33
Fossa Nuova	Fossa Nuova	141	Max WS	40.78	10.69	14.11		14.20	0.000754	1.30	31.41	13.93	0.28
Fossa Nuova	Fossa Nuova	140	Max WS	40.78	10.62	14.05		14.16	0.001226	1.51	27.06	13.42	0.34
Fossa Nuova	Fossa Nuova	139	Max WS	40.78	10.47	14.03		14.13	0.000878	1.38	29.60	13.23	0.29
Fossa Nuova	Fossa Nuova	138	Max WS	39.80	10.68	13.98		14.07	0.000913	1.34	29.62	14.14	0.30
Fossa Nuova	Fossa Nuova	137	Max WS	39.72	10.55	13.96		14.04	0.000954	1.31	30.29	14.57	0.29
Fossa Nuova	Fossa Nuova	136	Max WS	39.70	10.28	13.95		14.04	0.000919	1.33	29.82	14.80	0.30
Fossa Nuova	Fossa Nuova	135	Max WS	40.11	10.43	13.82		13.86	0.000604	1.02	41.61	23.35	0.24
Fossa Nuova	Fossa Nuova	134	Max WS	40.11	10.35	13.78		13.90	0.001347	1.52	26.45	12.83	0.34
Fossa Nuova	Fossa Nuova	133	Max WS	40.11	10.37	13.79		13.89	0.000990	1.38	28.97	14.00	0.31
Fossa Nuova	Fossa Nuova	132	Max WS	38.55	10.46	13.76		13.81	0.000589	1.04	39.86	21.78	0.24
Fossa Nuova	Fossa Nuova	131	Max WS	36.12	10.31	13.77		13.80	0.000392	0.83	47.32	28.81	0.19
Fossa Nuova	Fossa Nuova	130	Max WS	33.02	10.40	13.70		13.73	0.000467	0.87	40.00	22.83	0.21
Fossa Nuova	Fossa Nuova	129	Max WS	33.02	10.33	13.58		13.65	0.000760	1.23	26.94	12.77	0.27
Fossa Nuova	Fossa Nuova	128	Max WS	33.02	10.35	13.49		13.59	0.001019	1.39	23.77	10.88	0.30
Fossa Nuova	Fossa Nuova	120.01	Max WS	33.02	10.77	13.35		13.56	0.002471	2.03	16.29	8.91	0.48
Fossa Nuova	Fossa Nuova	120	Max WS	33.02	10.77	13.35	12.62	13.56	0.002484	2.03	16.26	8.91	0.48
Fossa Nuova	Fossa Nuova	119	Bridge										
Fossa Nuova	Fossa Nuova	118	Max WS	33.02	10.77	13.29		13.52	0.002729	2.09	15.78	8.90	0.50
Fossa Nuova	Fossa Nuova	117.9	Max WS	33.02	10.77	13.29		13.51	0.002747	2.10	15.74	8.90	0.50
Fossa Nuova	Fossa Nuova	117.6	Lat Struct										
Fossa Nuova	Fossa Nuova	117.4	Lat Struct										
Fossa Nuova	Fossa Nuova	106	Max WS	33.02	10.28	13.39		13.48	0.000953	1.35	24.50	11.70	0.30
Fossa Nuova	Fossa Nuova	105	Max WS	33.02	10.20	13.28		13.36	0.000857	1.30	25.44	12.29	0.29

HEC-RAS Plan: 20at Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Fossa Nuova	Fossa Nuova	104.1	Max WS	33.02	10.39	13.28		13.35	0.000722	1.20	27.43	12.54	0.26
Fossa Nuova	Fossa Nuova	104	Max WS	33.02	10.39	13.28	11.91	13.35	0.000723	1.20	27.42	12.54	0.26
Fossa Nuova	Fossa Nuova	103.7	Bridge										
Fossa Nuova	Fossa Nuova	103.5	Max WS	33.02	10.39	13.27		13.35	0.000731	1.21	27.32	12.54	0.26
Fossa Nuova	Fossa Nuova	103.49	Max WS	33.02	10.39	13.27		13.35	0.000732	1.21	27.31	12.54	0.26
Fossa Nuova	Fossa Nuova	103.4	Lat Struct										
Fossa Nuova	Fossa Nuova	103.2	Lat Struct										
Fossa Nuova	Fossa Nuova	103	Max WS	33.02	10.29	13.24		13.35	0.001360	1.47	22.53	13.30	0.36
Fossa Nuova	Fossa Nuova	102	Max WS	33.02	10.03	13.15		13.25	0.001017	1.38	23.90	11.58	0.31
Fossa Nuova	Fossa Nuova	101.1	Max WS	33.02	10.34	13.17		13.24	0.000759	1.16	28.38	14.09	0.26
Fossa Nuova	Fossa Nuova	101	Max WS	33.02	10.34	13.17	11.89	13.24	0.000760	1.16	28.36	14.09	0.26
Fossa Nuova	Fossa Nuova	100.7	Bridge										
Fossa Nuova	Fossa Nuova	100.5	Max WS	33.02	10.34	13.16		13.23	0.000769	1.17	28.25	14.09	0.26
Fossa Nuova	Fossa Nuova	100.49	Max WS	33.02	10.34	13.16		13.23	0.000770	1.17	28.24	14.09	0.26
Fossa Nuova	Fossa Nuova	100.4	Lat Struct										
Fossa Nuova	Fossa Nuova	100.2	Lat Struct										
Fossa Nuova	Fossa Nuova	100	Max WS	33.02	10.18	13.15		13.23	0.000805	1.24	26.70	13.71	0.28
Fossa Nuova	Fossa Nuova	99	Max WS	33.02	10.15	13.09		13.17	0.000886	1.30	25.36	12.63	0.29
Fossa Nuova	Fossa Nuova	98	Max WS	33.02	9.97	12.99		13.07	0.000877	1.27	26.04	13.92	0.30
Fossa Nuova	Fossa Nuova	97	Max WS	33.02	10.06	12.97		13.06	0.000905	1.31	25.22	12.58	0.30
Fossa Nuova	Fossa Nuova	96	Max WS	33.02	10.06	12.97		13.06	0.000917	1.32	24.95	12.29	0.30
Fossa Nuova	Fossa Nuova	95	Max WS	32.99	10.07	12.94		12.99	0.000675	1.02	35.02	23.80	0.26
Fossa Nuova	Fossa Nuova	94	Max WS	31.63	9.95	12.83		12.93	0.001427	1.43	22.16	14.18	0.36
Fossa Nuova	Fossa Nuova	93	Max WS	31.53	9.67	12.76		12.80	0.000478	0.87	39.02	25.78	0.21
Fossa Nuova	Fossa Nuova	92	Max WS	30.15	9.87	12.70		12.75	0.000626	0.97	33.87	24.14	0.24
Fossa Nuova	Fossa Nuova	91	Max WS	25.51	9.75	12.64		12.68	0.000488	0.89	31.42	22.29	0.22
Fossa Nuova	Fossa Nuova	90	Max WS	20.79	9.70	12.60		12.64	0.000441	0.89	23.36	11.95	0.20
Fossa Nuova	Fossa Nuova	89	Max WS	20.70	9.74	12.61		12.63	0.000383	0.76	29.29	18.60	0.18
Fossa Nuova	Fossa Nuova	88	Max WS	20.60	9.63	12.57		12.62	0.000610	0.97	21.33	11.45	0.23
Fossa Nuova	Fossa Nuova	87	Max WS	20.60	9.63	12.57		12.62	0.000545	0.98	21.12	9.72	0.21
Fossa Nuova	Fossa Nuova	86	Max WS	20.60	9.69	12.57		12.62	0.000577	1.00	20.68	10.33	0.22
Fossa Nuova	Fossa Nuova	85	Max WS	20.60	9.62	12.52		12.56	0.000433	0.88	23.48	11.73	0.20
Fossa Nuova	Fossa Nuova	84	Max WS	20.60	9.65	12.51		12.55	0.000503	0.94	21.97	11.41	0.22
Fossa Nuova	Fossa Nuova	83	Max WS	20.60	9.58	12.47		12.51	0.000358	0.82	25.19	12.55	0.18
Fossa Nuova	FN valle	82	Max WS	36.70	9.05	12.47		12.52	0.000140	0.97	37.69	11.02	0.17
Fossa Nuova	FN valle	81.9	Max WS	36.70	9.05	12.47	10.09	12.52	0.000140	0.97	37.68	11.02	0.17
Fossa Nuova	FN valle	81.5	Bridge										
Fossa Nuova	FN valle	81	Max WS	36.70	9.05	12.42		12.47	0.000146	0.99	37.12	11.02	0.17
Fossa Nuova	FN valle	80.9	Max WS	36.70	9.05	12.42		12.47	0.000146	0.99	37.12	11.02	0.17
Fossa Nuova	FN valle	80.6	Lat Struct										
Fossa Nuova	FN valle	80.4	Lat Struct										
Fossa Nuova	FN valle	70.1	Max WS	36.70	9.55	12.39		12.44	0.000161	1.00	36.79	13.01	0.19
Fossa Nuova	FN valle	70	Max WS	36.70	9.55	12.39	10.49	12.44	0.000161	1.00	36.79	13.01	0.19
Fossa Nuova	FN valle	69.7	Bridge										
Fossa Nuova	FN valle	69.5	Max WS	36.70	9.55	12.38		12.43	0.000162	1.00	36.68	13.01	0.19
Fossa Nuova	FN valle	69	Max WS	36.70	9.55	12.38	10.49	12.43	0.000162	1.00	36.68	13.01	0.19
Fossa Nuova	FN valle	68.5	Bridge										
Fossa Nuova	FN valle	68	Max WS	36.70	9.55	12.37		12.42	0.000164	1.00	36.56	13.01	0.19
Fossa Nuova	FN valle	67.9	Max WS	36.70	9.55	12.37		12.42	0.000164	1.00	36.56	13.01	0.19
Fossa Nuova	FN valle	67.6	Lat Struct										
Fossa Nuova	FN valle	67.4	Lat Struct										
Fossa Nuova	FN valle	67	Max WS	36.70	9.19	12.32		12.41	0.000342	1.38	26.56	11.45	0.29
Fossa Nuova	FN valle	66	Max WS	36.70	8.92	12.30		12.38	0.000269	1.27	28.82	11.48	0.26
Fossa Nuova	FN valle	63.1	Max WS	36.70	9.07	12.30		12.38	0.000278	1.28	28.74	9.10	0.23
Fossa Nuova	FN valle	63	Max WS	36.70	9.07	12.30	10.29	12.38	0.000278	1.28	28.74	9.10	0.23
Fossa Nuova	FN valle	62.7	Bridge										
Fossa Nuova	FN valle	62.5	Max WS	36.70	9.07	12.21		12.30	0.000301	1.31	27.94	9.10	0.24
Fossa Nuova	FN valle	62.49	Max WS	36.70	9.07	12.21		12.30	0.000301	1.31	27.94	9.10	0.24
Fossa Nuova	FN valle	62.4	Lat Struct										
Fossa Nuova	FN valle	62.2	Lat Struct										
Fossa Nuova	FN valle	62	Max WS	36.70	9.25	12.06		12.19	0.000452	1.55	23.62	10.44	0.33
Fossa Nuova	FN valle	61	Max WS	36.70	9.06	11.98		12.12	0.000504	1.64	22.40	8.81	0.33
Fossa Nuova	FN valle	60	Max WS	36.70	9.14	11.91		12.03	0.000808	1.53	23.94	10.99	0.33
Fossa Nuova	FN valle	59	Max WS	36.70	8.99	11.90		11.99	0.000480	1.30	28.30	13.94	0.29
Fossa Nuova	FN valle	58.1	Max WS	36.70	8.96	11.88		11.97	0.000827	1.29	28.46	13.98	0.29
Fossa Nuova	FN valle	58	Max WS	36.70	8.96	11.88	10.41	11.97	0.000828	1.29	28.44	13.97	0.29
Fossa Nuova	FN valle	57.5	Bridge										
Fossa Nuova	FN valle	57	Max WS	36.70	8.93	11.88		11.96	0.000796	1.27	28.86	14.06	0.28
Fossa Nuova	FN valle	56.9	Max WS	36.70	8.93	11.88		11.96	0.000797	1.27	28.85	14.06	0.28
Fossa Nuova	FN valle	56.6	Lat Struct										
Fossa Nuova	FN valle	56.4	Lat Struct										
Fossa Nuova	FN valle	56	Max WS	36.70	8.74	11.87		11.95	0.000404	1.24	29.62	14.07	0.27
Fossa Nuova	FN valle	55	Max WS	36.70	8.72	11.79		11.87	0.000730	1.23	29.93	14.51	0.27
Fossa Nuova	FN valle	54	Max WS	36.70	8.69	11.72		11.79	0.000649	1.18	31.04	14.41	0.26
Fossa Nuova	FN valle	53	Max WS	36.70	8.79	11.25		11.42	0.018482	1.85	19.79	11.66	0.45
Fossa Nuova	FN valle	52	Max WS	36.70	8.23	10.97		11.11	0.001082	1.65	22.28	10.21	0.36
Fossa Nuova	FN valle	51	Max WS	36.70	7.84	10.98		11.05	0.000598	1.17	31.46	10.57	0.22
Fossa Nuova	FN valle	50	Max WS	36.70	7.82	10.97		11.04	0.000592	1.16	31.59	10.58	0.21
Fossa Nuova	FN valle	49	Max WS	36.70	7.82	10.96		11.03	0.000595	1.16	31.52	10.58	0.22
Fossa Nuova	FN valle	48	Max WS	36.70	7.81	10.96		11.02	0.000517	1.11	33.05	11.94	0.21
Fossa Nuova	FN valle	47.1	Max WS	36.70	7.78	10.94		11.02	0.000292	1.29	28.44	9.02	0.23
Fossa Nuova	FN valle	47	Max WS	36.70	7.78	10.94	8.97	11.02	0.000292	1.29	28.44	9.02	0.23
Fossa Nuova	FN valle	46.5	Bridge										
Fossa Nuova	FN valle	46	Max WS	36.70	7.78	10.93		11.02	0.000293	1.29	28.41	9.02	0.23
Fossa Nuova	FN valle	45.9	Max WS	36.70	7.78	10.93		11.02	0.000293	1.29	28.41	9.02	0.23
Fossa Nuova	FN valle	45.6	Lat Struct										
Fossa Nuova	FN valle	45.4	Lat Struct										
Fossa Nuova	FN valle	42	Max WS	26.14	7.77	11.02		11.05	0.000236	0.80	32.61	10.61	0.15
Fossa Nuova	FN valle	41	Max WS	26.14	7.87	10.92		11.00	0.000757	1.25	20.99	9.15	0.26
Fossa Nuova	FN valle	40	Max WS	26.14	7.79	10.89		10.97	0.000731	1.21	21.55	9.96	0.26
Fossa Nuova	FN valle	39	Max WS	26.14	7.72	10.87		10.93	0.000604	1.09	23.95	9.93	0.22
Fossa Nuova	FN valle	38	Max WS	26.14	7.72	10.87		10.93	0.000523	1.09	23.95	9.93	0.22

HEC-RAS Plan: 20at Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Fossa Nuova	FN valle	37	Max WS	26.14	8.11	10.62		10.74	0.007191	1.50	17.45	8.46	0.33
Fossa Nuova	FN valle	36	Max WS	26.14	8.30	10.53		10.71	0.002077	1.91	13.70	7.46	0.45
Fossa Nuova	FN valle	35	Max WS	26.14	8.08	10.45		10.66	0.002187	2.04	12.81	6.48	0.46
Fossa Nuova	FN valle	34	Max WS	26.14	8.23	10.44		10.65	0.002599	2.04	12.82	7.31	0.49
Fossa Nuova	FN valle	33	Max WS	26.14	7.87	10.41		10.57	0.001911	1.80	14.51	7.80	0.42
Fossa Nuova	FN valle	32	Max WS	26.14	8.43	10.32		10.57	0.002047	2.19	11.93	7.76	0.56
Fossa Nuova	FN valle	31	Max WS	26.14	7.76	10.37		10.53	0.001693	1.74	15.03	8.03	0.41
Fossa Nuova	FN valle	30	Max WS	26.14	7.75	10.37		10.46	0.000879	1.31	20.03	9.82	0.29
Fossa Nuova	FN valle	29	Max WS	26.14	7.77	10.35		10.45	0.001072	1.41	18.54	9.54	0.32
Fossa Nuova	FN valle	28	Max WS	26.14	7.41	10.29		10.39	0.001277	1.45	18.09	10.34	0.35
Fossa Nuova	FN valle	27	Max WS	26.14	7.50	10.29		10.39	0.000829	1.37	19.11	10.14	0.32
Fossa Nuova	FN valle	26	Max WS	26.14	7.34	10.25		10.36	0.000947	1.47	17.77	8.98	0.33
Fossa Nuova	FN valle	25	Max WS	26.14	7.34	10.22		10.36	0.001634	1.69	15.50	8.51	0.40
Fossa Nuova	FN valle	24	Max WS	26.14	7.57	10.19		10.32	0.001346	1.63	16.07	8.11	0.37
Fossa Nuova	FN valle	23	Max WS	26.14	7.73	10.16		10.32	0.001785	1.73	15.11	8.59	0.42
Fossa Nuova	FN valle	22	Max WS	26.14	6.86	10.23		10.31	0.000714	1.25	20.92	9.31	0.27
Fossa Nuova	FN valle	21	Max WS	26.14	7.11	10.18		10.29	0.000995	1.45	18.09	8.53	0.32
Fossa Nuova	FN valle	20	Max WS	26.14	7.10	10.20		10.28	0.000718	1.25	20.87	9.04	0.26
Fossa Nuova	FN valle	19	Max WS	26.14	6.89	10.17		10.26	0.000923	1.28	20.49	9.04	0.27
Fossa Nuova	FN valle	18	Max WS	26.14	7.19	10.13		10.22	0.000832	1.30	20.15	8.85	0.27
Fossa Nuova	FN valle	17	Max WS	26.14	7.19	10.09		10.17	0.000831	1.28	20.49	9.44	0.28
Fossa Nuova	FN valle	16	Max WS	26.14	7.02	10.03		10.11	0.000735	1.22	21.34	9.63	0.26
Fossa Nuova	FN valle	15	Max WS	26.14	7.55	10.00		10.09	0.001010	1.32	19.73	10.57	0.31
Fossa Nuova	FN valle	14	Max WS	26.14	7.90	9.97		10.08	0.001548	1.52	17.25	10.69	0.38
Fossa Nuova	FN valle	13	Max WS	26.14	7.67	9.94		10.08	0.001773	1.63	16.05	9.30	0.40
Fossa Nuova	FN valle	12	Max WS	26.14	7.19	9.99		10.06	0.000742	1.19	21.88	10.66	0.27
Fossa Nuova	FN valle	11	Max WS	26.14	7.14	9.97		10.05	0.000794	1.26	20.70	9.55	0.27
Fossa Nuova	FN valle	10	Max WS	26.14	7.29	9.94		10.04	0.001000	1.39	18.84	8.77	0.30
Fossa Nuova	FN valle	9	Max WS	26.14	6.98	9.93		10.01	0.000720	1.22	21.43	9.86	0.26
Fossa Nuova	FN valle	8	Max WS	26.14	6.78	9.94		10.00	0.000523	1.12	23.42	9.92	0.23
Fossa Nuova	FN valle	7	Max WS	26.14	6.79	9.91		9.98	0.000785	1.17	22.40	12.69	0.28
Fossa Nuova	FN valle	6	Max WS	26.14	6.79	9.91		9.98	0.000803	1.15	22.77	13.94	0.29
Fossa Nuova	FN valle	5	Max WS	25.50	6.79	9.90		9.97	0.000581	1.12	23.13	15.32	0.26
Fossa Nuova	FN valle	4	Max WS	25.20	6.88	9.86		9.96	0.000991	1.40	18.05	9.92	0.33
Fossa Nuova	FN valle	3	Max WS	24.89	7.08	9.88		9.95	0.000812	1.19	20.87	12.61	0.30
Fossa Nuova	FN valle	2	Max WS	24.83	6.98	9.87		9.95	0.000714	1.22	20.33	10.49	0.28
Fossa Nuova	FN valle	1	Max WS	24.83	6.99	9.86		9.93	0.000541	1.11	22.40	9.80	0.23
Fossa Nuova	FN valle	.9	Max WS	24.83	6.88	9.78	8.59	9.93	0.002058	1.73	14.36	6.89	0.38
Fossa Nuova	FN valle	.85		Bridge									
Fossa Nuova	FN valle	.8	Max WS	24.83	6.81	9.79		9.87	0.001013	1.28	19.33	9.00	0.28
Fossa Nuova	FN valle	.79	Max WS	24.83	6.81	9.79		9.87	0.001014	1.29	19.32	8.99	0.28
Fossa Nuova	FN valle	.76		Lat Struct									
Fossa Nuova	FN valle	.74		Lat Struct									
Fossa Nuova	FN valle	.7	Max WS	24.83	6.72	9.57		9.74	0.002731	1.86	13.35	7.07	0.43
Fossa Nuova	FN valle	.6	Max WS	24.83	6.67	9.59		9.67	0.001136	1.32	18.80	9.98	0.31
Fossa Nuova	FN valle	.5	Max WS	24.83	6.53	9.50		9.55	0.000544	1.01	24.58	11.65	0.22
Fossa Nuova	FN valle	.4	Max WS	24.83	6.20	9.34		9.39	0.000502	0.95	26.25	12.33	0.21
Fossa Nuova	FN valle	.3	Max WS	24.83	5.88	9.08		9.16	0.001000	1.26	19.68	11.18	0.30
Fossa Nuova	FN valle	.2	Max WS	24.83	5.88	9.08	7.72	9.16	0.001001	1.26	19.66	11.18	0.30



















































































































