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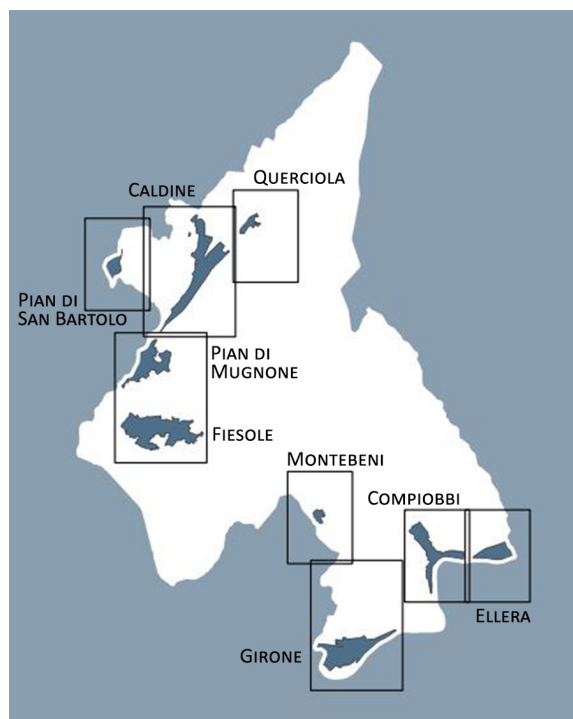
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All2.REL.I01 - Tabulati verifiche idrauliche

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**Tabulati verifiche idrauliche
torrente Mugnone e affluenti
Tr = 30 anni**

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Capannucce	9 FG001	31.47	2.83	198.04	198.50	3.81	2.21	199.23	0.0913	3.26	2.45	2.73	0.74	0.27
Capannucce	8 FG002	26.88	2.82	194.92	195.23	4.01	2.45	196.05	0.1299	1.84	2.44	2.86	0.70	0.25
Capannucce	7 FG003	5.34	2.81	192.60	193.38	1.55	0.59	193.50	0.0069		2.62	3.71	1.82	0.49
Capannucce	6 FG004	24.04	2.81	191.52	191.97	2.85	1.40	192.39	0.0394	0.92	2.34	2.99	0.99	0.33
Capannucce	5 FG005	22.20	2.81	190.61	191.08	2.68	1.40	191.45	0.0406	0.60	2.36	3.05	1.05	0.34
Capannucce	4 FG006	16.98	2.93	189.82	190.55	1.77	0.81	190.71	0.0136	0.15	2.45	3.60	1.66	0.46
Capannucce	3 FG007_A	1.33	2.92	189.44	190.44	1.24	0.46	190.52	0.0043	0.01	2.58	4.17	2.35	0.56
Capannucce	2 FG007_B	4.59	2.92	189.40	190.44	1.21	0.49	190.52	0.0046		3.12	4.39	2.44	0.56
Capannucce	1 FG007_C	6.68	2.92	189.10	189.33	6.11	4.29	191.24	0.4371	1.47	2.09	2.48	0.48	0.19
Capannucce	0.5	2.00	2.75	186.52	187.55	0.83	0.39	187.58	0.0025	0.07	6.46	6.94	3.32	0.48
Mugnoncello 01	56 MU001	3.79	29.71	192.36	195.93	1.62	0.44	196.00	0.0023	0.01	10.21	13.81	24.27	1.76
Mugnoncello 01	55 MU002_A	1.18	29.33	192.26	195.96	0.86	0.22	195.98	0.0006		20.48	23.94	45.05	1.88
Mugnoncello 01	54 MU002_B	3.58	29.33	192.39	195.87	1.71	0.38	195.99	0.0022		6.61	11.82	19.65	1.66
Mugnoncello 01	53 MU002_C	1.19	29.33	192.21	193.70	4.07	1.29	194.50	0.0238	0.04	5.71	7.52	7.41	0.99
Mugnoncello 01	52 MU002_D	16.69	29.33	192.04	193.63	4.83	1.80	194.47	0.0526	0.95	12.65	14.66	7.97	0.68
Mugnoncello 01	51 MU003	24.34	29.30	191.24	192.64	5.85	2.18	194.25	0.0770	1.25	9.53	11.27	5.60	0.70
Mugnoncello 01	50 MU004	28.69	29.19	190.08	191.24	4.49	1.60	192.19	0.0343	1.54	7.81	8.56	6.98	0.82
Mugnoncello 01	49 MU005	11.48	30.04	188.55	189.85	5.98	2.37	191.63	0.0816	0.70	8.10	8.98	5.10	0.76
Mugnoncello 01	48 MU006	25.92	30.10	187.90	189.00	4.29	1.75	189.93	0.0441	1.02	10.93	11.58	7.02	0.61
Mugnoncello 01	47 MU007	8.43	30.16	186.52	187.97	4.82	1.68	189.15	0.0374	0.41	7.48	8.26	6.26	0.76
Mugnoncello 01	46.3	2.00	30.13	186.20	187.55	5.46	2.08	189.07	0.0612	0.13	7.24	7.95	5.51	0.69
Mugnoncello 02	46.2	12.31	32.87	186.20	187.55	5.96	2.24	189.36	0.0707	0.68	7.24	7.95	5.51	0.69
Mugnoncello 02	46 MU008	28.37	32.87	185.48	186.78	5.09	1.72	188.10	0.0391	0.91	7.11	7.82	6.46	0.83
Mugnoncello 02	45 MU009	20.94	32.87	184.11	185.82	4.65	1.41	186.92	0.0258	0.39	6.35	7.48	7.07	0.95
Mugnoncello 02	44 MU010	30.73	32.86	183.45	185.27	3.41	0.97	185.86	0.0115	0.39	7.69	8.86	9.65	1.09
Mugnoncello 02	43 MU2011	23.86	32.86	183.38	184.88	3.51	1.00	185.51	0.0136	0.91	7.52	9.37	9.37	1.00
Mugnoncello 02	42 MU2012	27.16	32.86	182.83	183.90	5.34	2.09	185.35	0.0671	1.30	8.88	10.20	6.15	0.60
Mugnoncello 02	41 MU2013	23.69	32.86	180.99	182.53	3.89	1.38	183.30	0.0288	0.59	8.78	10.76	8.44	0.78
Mugnoncello 02	40 MU2014	15.54	32.85	180.01	181.97	4.37	1.17	182.95	0.0224	0.40	5.31	7.83	7.51	0.96
Mugnoncello 02	39 MU2015	15.21	32.85	180.06	181.57	4.67	1.39	182.69	0.0297	0.33	5.51	7.57	7.03	0.93
Mugnoncello 02	38 MU2016_A	2.02	32.85	179.42	181.13	3.68	0.90	181.82	0.0144	0.03	5.21	8.63	8.92	1.03
Mugnoncello 02	37 MU2016_B	0.01	32.85	179.42	181.10	3.75	0.94	181.82	0.0152		5.21	8.56	8.75	1.02
Mugnoncello 02	36 MU2016_C	2.12	32.85	179.15	180.49	4.71	1.30	181.62	0.0289	0.07	5.21	7.88	6.98	0.89
Mugnoncello 02	35 MU2016_D	5.63	32.85	179.15	180.41	5.01	1.45	181.69	0.0354	0.18	5.21	7.72	6.55	0.85
Mugnoncello 02	34 MU2017	30.63	32.85	178.64	180.20	4.79	1.44	181.37	0.0278	0.82	6.10	7.29	6.86	0.94
Mugnoncello 02	33 MU2018	4.67	32.85	177.85	179.37	4.70	1.38	180.50	0.0258	0.12	5.87	7.26	6.98	0.96
Mugnoncello 02	32 MU2019	4.83	32.85	176.04	177.26	5.41	1.87	178.75	0.0465	0.22	7.10	7.89	6.07	0.77
Mugnoncello 02	31 MU2020	4.80	32.65	173.85	175.45	4.58	1.49	176.52	0.0294	0.15	7.22	8.15	7.13	0.87
Mugnoncello 02	30 MU2021	4.84	36.17	171.25	172.68	4.70	1.50	173.80	0.0307	0.14	7.69	8.83	7.70	0.87
Mugnoncello 02	29 MU2022_A	1.16	36.16	169.92	171.66	2.25	0.60	171.91	0.0046		11.31	13.61	16.09	1.18
Mugnoncello 02	28 MU2022_B	4.68	36.16	169.35	170.86	3.52	1.14	171.49	0.0192	0.10	10.49	13.20	10.28	0.79
Mugnoncello 02	27 MU1023	4.66	36.16	168.57	169.89	3.56	1.10	170.54	0.0146	0.07	9.60	10.42	10.16	0.98
Mugnoncello 02	26 MU1024	46.69	36.16	167.55	168.80	5.03	1.75	170.09	0.0383	1.72	8.57	9.08	7.19	0.79
Mugnoncello 02	25 MU1025	34.07	36.15	165.75	167.09	4.66	1.66	168.19	0.0361	0.84	9.21	9.77	7.76	0.79
Mugnoncello 02	24 MU1026_A	2.03	36.15	164.70	166.16	3.36	1.02	166.74	0.0129	0.02	9.25	10.38	10.77	1.04
Mugnoncello 02	23 MU2026_B	0.10	36.15	164.64	166.13	3.28	0.91	166.68	0.0116		8.18	10.65	11.02	1.03
Mugnoncello 02	22 MU2026_C	2.03	36.15	164.61	165.87	3.95	1.19	166.67	0.0200	0.04	8.15	10.19	9.15	0.90
Mugnoncello 02	21 MU1026_D	45.00	36.15	164.45	165.80	3.64	1.12	166.48	0.0149	0.88	9.15	10.04	9.93	0.99
Mugnoncello 02	20 MU1027	22.32	36.15	163.77	164.91	3.92	1.40	165.70	0.0248	0.49	11.52	11.93	9.22	0.77
Mugnoncello 02	19 MU1028	33.36	36.15	163.20	164.39	3.54	1.24	165.03	0.0189	0.66	12.23	12.66	10.20	0.81
Mugnoncello 02	18 MU1029	16.20	36.14	162.46	163.79	3.19	1.26	164.31	0.0206	0.27	13.71	14.11	11.32	0.80
Mugnoncello 02	17 MU1030_A	2.13	36.14	161.94	163.58	3.18	1.02	164.10	0.0127	0.02	9.78	10.62	11.35	1.07
Mugnoncello 02	16 MU2030_B	0.10	36.14	161.92	163.51	2.50	0.67	163.83	0.0063		9.65	12.80	14.45	1.13
Mugnoncello 02	15 MU2030_C	0.28	36.14	161.85	163.53	2.36	0.61	163.81	0.0052		10.20	13.56	15.34	1.15
Mugnoncello 02	14.9	1.00	36.14	161.83	163.53	2.33	0.60	163.81	0.0050		10.20	13.60	15.52	1.16
Mugnoncello 02	14.25	1.00	35.79	160.08	162.42	1.77	0.37	162.58	0.0020		8.60	13.29	20.17	1.52
Mugnoncello 02	14 MU1030_D	45.19	35.81	160.08	162.42	1.78	0.39	162.58	0.0019	1.36	9.38	12.79	20.08	1.57
Mugnoncello 02	13 MU1031	4.65	35.85	159.52	160.89	5.97	2.11	162.70	0.0591	0.29	7.29	7.92	6.01	0.76
Mugnoncello 02	12 MU1032	42.02	38.06	155.71	157.15	5.30	1.83	158.58	0.0434	1.31	7.77	8.44	7.19	0.85
Mugnoncello 02	11 MU1033	31.02	38.05	153.66	155.84	3.91	1.21	156.58	0.0191	0.33	7.83	9.12	9.99	1.09
Mugnoncello 02	10 MU1034	36.50	38.05	152.97	155.41	1.64	0.46	155.54	0.0022	0.17	14.08	15.23	23.50	1.54
Mugnoncello 02	9 MU2035_A	1.06	38.05	152.52	155.00	3.06	0.62	155.48	0.0077	0.01	5.02	9.97	12.45	1.25
Mugnoncello 02	8 MU2035_B	0.30	38.05	152.52	154.99	3.07	0.62	155.47	0.0078		5.02	9.95	12.40	1.25
Mugnoncello 02	7 MU2035_C	1.02	38.04	152.62	153.98	5.60	1.55	155.58	0.0419	0.06	5.01	7.72	6.80	0.88
Mugnoncello 02	6 MU2035_D	5.90	38.04	152.62	153.82	7.17	2.18	156.43	0.0839	0.42	4.46	6.83	5.31	0.78
Mugnoncello 02	5 MU1036_A	1.00	38.02	151.92	153.14	5.76	2.08	154.76	0.0575	0.05	8.01	8.60	6.81	0.79
Mugnoncello 02	4 MU1036_B	11.81	38.02	151.53	152.94	4.71	1.64	153.99	0.0339	0.29	9.22	9.90	8.37	0.85
Mugnoncello 02	3 MU1037	30.04	37.92	150.88	152.55	3.49	1.12	153.10	0.0147	0.38	10.62	11.33	11.52	1.02
Mugnoncello 02	2 MU1038	30.76	37.47	150.37	152.22	3.11	0.96	152.63	0.0106	0.18	11.06	11.85	13.27	1.12
Mugnoncello 02	1 MU1039	12.59	37.19	149.09	151.99	1.19	0.30	152.06	0.0010	0.01	17.85	19.77	32.81	1.66
Mugnoncello 02	0.5 MU1038	1.00	37.20	148.62	152.01	0.80	0.19	152.04	0.0003		21.92	24.23	47.67	1.97
Mugnone 01	242 MG2001	47.92	52.04	195.00	195.87	3.51	1.29	196.49	0.0224	1.19	19.68	20.89	14.82	0.71
Mugnone 01	241 MG1002	33.35	52.03	193.32	194.70	4.37	1.49	195.68	0.0275	0.64	13.25	13.64	11.92	0.87
Mugnone 01	240 MG1003	12.74	52.94	192.12	193.98	3.60	1.04	194.64	0.0126	0.26	12.02	13.32	14.70	1.10
Mugnone 01	239.5	6.42	52.94	192.12	193.67	4.75	1.51	194.82	0.0282	0.16	11.07	12.16	11.14	0.92
Mugnone 01	239 MG1004	27.47	61.82	192.10	193.45	4.32	1.37	194.40	0.0221	0.84	14.19	15.04	14.30	0.95
Mugnone 01	238 MG1005	28.68	61.83	191.37	192.59	5.03	1.81	193.88	0.0416	0.94	15.05	15.42	12.30	0.80
Mugnone 01	237 MG1006	30.07	61.83	190.03	191.65	4.75	1.47	192.80	0.0247	0.66	12.22	12.91	13.03	1.01

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 01	236 MG1007	25.69	61.82	189.40	190.91	4.18	1.30	191.81	0.0194	0.49	14.08	14.60	14.79	1.01
Mugnone 01	235 MG1008	34.95	61.82	188.69	190.42	4.02	1.27	191.25	0.0190	0.53	14.77	15.26	15.36	1.01
Mugnone 01	234 MG1009	31.67	61.83	187.70	189.83	3.37	1.02	190.41	0.0115	0.86	16.57	17.15	18.37	1.07
Mugnone 01	233 MG1010	26.68	61.82	187.01	188.89	5.28	1.86	190.31	0.0429	1.36	14.23	15.00	11.72	0.78
Mugnone 01	232 MG1011	26.61	61.82	186.03	187.47	6.23	2.20	189.46	0.0602	1.11	12.11	12.49	9.92	0.79
Mugnone 01	231 MG1012	26.08	61.82	184.52	185.99	3.58	1.36	186.64	0.0232	0.60	24.37	24.72	17.27	0.70
Mugnone 01	230 MG1013	28.58	61.82	184.09	185.38	3.58	1.35	186.04	0.0232	0.79	24.27	24.98	17.28	0.69
Mugnone 01	229 MG1014	35.32	61.82	183.41	184.61	4.38	1.63	185.59	0.0337	0.78	17.17	17.46	14.10	0.81
Mugnone 01	228 MG1015	34.11	61.82	182.01	183.80	3.06	0.95	184.28	0.0103	0.30	17.68	18.24	20.18	1.11
Mugnone 01	227 MG1016	30.32	63.35	181.25	183.52	2.93	0.80	183.96	0.0070	0.16	15.43	16.30	21.60	1.33
Mugnone 01	226 MG1017	25.69	63.97	180.75	183.32	2.28	0.59	183.59	0.0035		18.16	19.17	28.04	1.46
Mugnone 01	225 MG1018	15.62	63.97	177.42	179.51	2.64	0.61	179.86	0.0044	0.17	12.67	15.88	24.27	1.53
Mugnone 01	224 MG1019	6.00	63.97	178.02	179.31	3.51	1.20	179.94	0.0169	0.23	20.99	21.38	18.23	0.85
Mugnone 01	223.4	17.09	63.97	178.02	179.01	5.25	2.15	180.42	0.0609	0.83	19.15	19.44	12.18	0.63
Mugnone 01	223 MG1020	17.21	76.96	177.12	178.12	4.57	1.78	179.17	0.0403	0.56	22.74	23.01	16.98	0.74
Mugnone 01	222 MG1021	16.85	76.93	176.14	177.59	3.97	1.43	178.34	0.0243	0.27	21.08	21.36	19.97	0.93
Mugnone 01	221 MG1022	24.21	76.91	175.10	177.26	2.59	0.82	177.57	0.0076	0.35	25.39	26.20	30.82	1.18
Mugnone 01	220 MG1023	20.87	76.90	174.86	176.85	4.44	1.38	177.84	0.0232	0.36	16.70	18.29	17.38	1.14
Mugnone 01	219 MG1024	23.04	76.90	174.22	176.36	3.35	1.01	176.93	0.0123	0.31	19.67	21.56	22.97	1.07
Mugnone 01	218 MG1025	20.24	77.26	173.94	176.05	3.86	1.11	176.81	0.0147	0.28	15.95	17.88	20.01	1.12
Mugnone 01	217 MG1026	24.28	77.26	173.55	175.76	4.01	1.08	176.58	0.0132	0.41	13.62	15.36	19.26	1.25
Mugnone 01	216 MG1027	23.69	77.26	173.25	175.33	4.38	1.34	176.31	0.0210	0.47	16.24	17.36	17.62	1.01
Mugnone 01	215 MG1028	18.37	77.25	172.84	174.83	4.09	1.27	175.68	0.0188	0.36	17.90	18.75	18.91	1.01
Mugnone 01	214 MG1029	14.99	77.24	172.28	174.49	4.27	1.29	175.42	0.0198	0.20	15.36	16.59	18.11	1.09
Mugnone 01	213.7	1.00	77.23	172.29	174.17	3.09	0.82	174.65	0.0077	0.01	16.88	18.99	25.15	1.32
Mugnone 01	213.4	1.00	84.34	172.29	174.15	3.40	0.91	174.74	0.0095	0.01	16.86	18.94	24.82	1.31
Mugnone 01	213 MG2030 A	2.62	84.34	172.28	174.14	3.40	0.91	174.73	0.0095	0.03	16.86	18.93	24.81	1.31
Mugnone 01	212 MG2030 B	0.10	84.34	172.25	174.09	3.92	1.00	174.88	0.0122		13.80	16.50	21.49	1.30
Mugnone 01	211.5	1.00	84.34	170.59	171.46	6.95	2.50	173.92	0.0867	0.06	13.95	15.68	12.13	0.77
Mugnone 01	210.9 MG2030 C	1.76	84.34	170.10	171.16	5.70	1.77	172.82	0.0418	0.05	13.95	16.07	14.79	0.92
Mugnone 01	210 MG2030 D	24.00	84.34	169.20	170.93	4.58	1.23	172.01	0.0166	0.53	12.92	14.24	18.40	1.29
Mugnone 01	209 MG1031	20.92	84.34	168.80	170.42	4.84	1.59	171.62	0.0297	0.53	16.18	16.91	17.43	1.03
Mugnone 01	208 MG1032	21.97	84.34	167.94	169.91	5.28	1.38	171.33	0.0218	0.42	10.75	12.31	15.98	1.30
Mugnone 01	207 MG1033	26.57	84.34	167.53	169.37	4.43	1.23	170.37	0.0161	0.45	14.33	15.17	19.03	1.25
Mugnone 01	206 MG1034	26.99	84.33	167.04	168.85	3.90	1.24	169.63	0.0176	0.49	21.39	22.23	21.60	0.97
Mugnone 01	205 MG1035	26.05	84.33	166.51	168.34	3.37	1.22	168.92	0.0189	0.41	29.41	30.17	25.00	0.83
Mugnone 01	204 MG1036	30.90	84.32	166.12	167.95	3.12	1.03	168.44	0.0122	0.32	27.92	28.30	27.02	0.95
Mugnone 01	203 MG1037	27.00	84.32	165.47	167.63	3.05	0.90	168.10	0.0087	0.24	23.93	24.48	27.69	1.13
Mugnone 01	202 MG1038	36.04	85.64	165.07	167.38	2.93	0.91	167.82	0.0090	0.25	27.36	28.02	29.22	1.04
Mugnone 01	201 MG1039	40.99	85.61	164.82	167.07	2.20	0.66	167.32	0.0048	0.20	34.75	35.78	38.95	1.09
Mugnone 01	200 MG2040 A	2.00	85.60	164.91	166.88	2.07	0.69	167.10	0.0056		40.83	41.86	41.44	0.99
Mugnone 01	199 MG2040 B	40.51	85.60	162.85	164.31	4.71	1.27	165.44	0.0205	0.82	12.57	15.31	18.18	1.19
Mugnone 01	198 MG1041	4.78	85.60	161.43	163.47	4.60	1.38	164.55	0.0211	0.10	16.41	17.17	18.61	1.09
Mugnone 01	197 MG2042 A	2.01	85.59	160.35	162.40	2.04	0.66	162.61	0.0054		40.47	42.65	42.13	0.99
Mugnone 01	196 MG2042 B	4.18	85.59	159.67	162.20	2.19	0.73	162.44	0.0068	0.03	39.80	42.94	39.01	0.91
Mugnone 01	195 MG1043	4.97	85.58	159.54	161.99	2.40	0.76	162.28	0.0063	0.04	34.69	35.54	35.68	1.08
Mugnone 01	194 MG2044 A	2.01	85.57	159.71	161.78	2.10	0.72	162.00	0.0065		40.50	43.24	40.68	0.94
Mugnone 01	193 MG2044 B	4.83	85.57	158.89	161.36	3.84	1.13	161.76	0.0177	0.10	39.12	43.13	31.53	1.47
Mugnone 01	192 MG2045 A	2.00	85.56	157.95	160.96	3.03	0.63	161.43	0.0045		12.19	15.41	28.27	1.86
Mugnone 01	191 MG2045 B	4.83	85.56	157.04	159.05	5.49	1.32	160.59	0.0234	0.10	8.83	11.77	15.59	1.32
Mugnone 01	190 MG2046 A	2.00	85.56	156.09	158.23	2.88	0.66	158.65	0.0046	0.01	15.16	17.59	29.71	1.69
Mugnone 01	189 MG2046 B	0.10	85.56	156.07	158.22	2.85	0.65	158.64	0.0045		15.25	17.66	29.99	1.70
Mugnone 01	188 MG2046 C	2.04	85.56	156.05	158.00	3.18	0.76	158.52	0.0064	0.01	14.99	17.17	26.91	1.57
Mugnone 01	187 MG2046 D	21.53	85.56	156.04	157.97	2.53	0.58	158.30	0.0039		17.51	21.36	33.79	1.58
Mugnone 01	186 MG1047	22.31	85.56	150.88	153.39	4.09	1.02	154.24	0.0118	0.21	12.64	14.45	20.92	1.45
Mugnone 01	185 MG1048	24.37	85.56	150.47	153.11	3.55	0.86	153.75	0.0076	0.20	13.75	15.16	24.12	1.59
Mugnone 01	184 MG1049	24.15	86.03	150.07	152.92	3.56	0.91	153.56	0.0091	0.23	15.24	16.82	24.24	1.44
Mugnone 01	183 MG1050	29.30	86.03	150.10	152.68	3.91	0.98	153.45	0.0103	0.25	13.28	14.69	22.13	1.51
Mugnone 01	182 MG1051	24.27	86.03	149.78	152.39	3.44	0.81	152.99	0.0068	0.17	13.46	15.01	25.17	1.68
Mugnone 01	181 MG1052	21.78	86.02	149.69	152.21	3.22	0.83	152.73	0.0071	0.14	16.62	17.70	27.03	1.53
Mugnone 01	180 MG1053	18.00	86.01	149.45	152.07	2.99	0.74	152.51	0.0055	0.08	16.52	17.74	29.14	1.64
Mugnone 01	179 MG1054	13.82	85.96	149.18	152.00	2.63	0.61	152.34	0.0037	0.04	17.26	18.71	33.27	1.78
Mugnone 01	178 MG1055	12.04	85.92	148.88	152.01	2.14	0.53	152.23	0.0028	0.03	22.37	24.03	41.05	1.71
Mugnone 02	177.4	13.56	123.13	148.62	152.01	2.58	0.56	152.35	0.0030	0.04	21.92	24.23	47.67	1.97
Mugnone 02	177.2	1.00	122.96	148.57	151.95	2.64	0.58	152.31	0.0033		21.92	24.13	46.59	1.93
Mugnone 02	177.1	1.75	122.96	148.56	151.95	2.64	0.58	152.31	0.0033	0.01	21.92	24.12	46.51	1.93
Mugnone 02	177 MG1056	21.94	130.31	148.55	151.87	2.91	0.65	152.30	0.0041	0.10	21.92	23.96	44.70	1.87
Mugnone 02	176 MG1057	22.18	130.47	148.92	151.74	3.10	0.72	152.23	0.0050	0.10	22.31	23.58	42.08	1.78
Mugnone 02	175 MG1058	22.21	130.47	148.52	151.64	2.98	0.68	152.09	0.0043	0.07	22.28	23.64	43.82	1.85
Mugnone 02	174 MG1059	18.28	129.25	148.23	151.61	2.14	0.45	151.85	0.0019	0.06	26.61	28.88	60.48	2.09
Mugnone 02	173 MG2060 A	19.30	126.66	148.22	151.47	2.71	0.67	151.84	0.0044		25.81	27.50	46.74	1.70
Mugnone 02	171 MG1061	4.62	126.66	144.04	146.67	4.77	1.21	147.83	0.0152	0.07	16.76	18.01	26.54	1.47
Mugnone 02	170 MG1062	4.64	127.34	143.52	146.23	5.37	1.47	147.70	0.0238	0.11	17.14	18.30	23.72	1.30
Mugnone 02	169 MG1063	4.10	127.35	142.86	145.81	5.22	1.38	147.20	0.0206	0.08	16.76	18.32	24.42	1.33
Mugnone 02	168 MG1064	4.80	127.35	142.63	145.39	4.49	1.13	146.42	0.0129	0.07	17.53	18.80	28.38	1.51
Mugnone 02	167 MG1065	4.56	127.33	142.35	145.06	5.01	1.36	146.34	0.0203	0.09	17.36	18.85	25.42	1.35
Mugnone 02	166 MG1066	4.37	128.77	142.04	144.72	4.75	1.22	145.87	0.0160	0.08	17.22	18.54	27.11	1.

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	164 MG1068	4.44	131.52	141.48	143.86	5.20	1.27	145.23	0.0167	0.07	14.84	16.30	25.31	1.55
Mugnone 02	163 MG1069	21.53	131.61	140.96	143.45	5.08	1.32	144.77	0.0177	0.36	17.15	18.08	25.91	1.43
Mugnone 02	162 MG1070	20.19	131.61	140.75	143.04	4.74	1.23	144.19	0.0155	0.30	18.28	19.42	27.77	1.43
Mugnone 02	161 MG1071	20.28	131.61	140.51	142.70	4.45	1.17	143.71	0.0139	0.38	20.15	21.08	29.60	1.40
Mugnone 02	160 MG1072	18.31	131.61	140.18	142.29	5.11	1.49	143.62	0.0244	0.41	21.39	22.35	25.78	1.15
Mugnone 02	159 MG1073	19.04	131.60	139.80	141.86	4.95	1.37	143.11	0.0200	0.38	20.06	21.08	26.56	1.26
Mugnone 02	158 MG1074	18.52	131.60	139.56	141.46	4.77	1.36	142.62	0.0196	0.34	21.97	22.86	27.61	1.21
Mugnone 02	157 MG1075	18.02	131.60	139.00	141.08	4.54	1.29	142.14	0.0175	0.34	22.86	23.72	28.96	1.22
Mugnone 02	156 MG1076	20.45	132.61	138.61	140.75	4.59	1.35	141.82	0.0204	0.40	24.39	25.28	28.89	1.14
Mugnone 02	155 MG1077	21.68	132.61	138.23	140.34	4.38	1.29	141.32	0.0185	0.34	25.40	26.03	30.29	1.16
Mugnone 02	154 MG1078	22.22	132.60	137.74	139.96	3.99	1.11	140.78	0.0131	0.30	25.15	25.80	33.24	1.29
Mugnone 02	153 MG1079	24.48	132.60	137.61	139.66	4.29	1.15	140.60	0.0138	0.37	21.87	22.68	30.92	1.36
Mugnone 02	152 MG1080	19.50	132.59	136.92	139.29	4.52	1.25	140.33	0.0163	0.32	22.10	22.85	29.34	1.28
Mugnone 02	151 MG1081	21.47	132.59	136.58	138.97	4.64	1.25	140.07	0.0162	0.34	20.25	21.17	28.60	1.35
Mugnone 02	150 MG1082	22.46	132.58	136.27	138.61	4.44	1.21	139.62	0.0156	0.33	21.40	22.31	29.83	1.34
Mugnone 02	149 MG1083	18.43	132.58	135.86	138.27	4.25	1.14	139.19	0.0137	0.24	21.63	22.55	31.22	1.38
Mugnone 02	148 MG1084	20.84	132.58	135.52	138.03	4.15	1.10	138.91	0.0125	0.25	21.67	22.67	31.93	1.41
Mugnone 02	147 MG1085	19.17	132.57	135.17	137.77	3.91	1.03	138.54	0.0111	0.22	22.63	23.56	33.90	1.44
Mugnone 02	146 MG1086	18.81	132.57	134.83	137.56	4.04	1.06	138.39	0.0117	0.24	21.11	22.32	32.79	1.47
Mugnone 02	145 MG1087	17.60	132.55	134.61	137.31	4.48	1.15	138.33	0.0137	0.26	18.62	19.80	29.65	1.50
Mugnone 02	144 MG1088	17.01	132.52	134.44	137.05	4.21	1.20	137.93	0.0154	0.20	22.48	23.49	31.79	1.35
Mugnone 02	143.6	1.50	132.45	133.99	136.80	3.79	0.98	137.52	0.0096	0.01	23.16	24.44	35.35	1.56
Mugnone 02	143.4	2.13	132.46	133.99	136.79	3.83	0.98	137.52	0.0098	0.02	23.11	24.38	34.99	1.55
Mugnone 02	143 MG1089	20.45	146.31	133.99	136.74	4.31	1.11	137.69	0.0125	0.23	22.14	23.38	33.95	1.54
Mugnone 02	142 MG1090	15.24	146.31	133.83	136.51	4.37	1.03	137.48	0.0103	0.15	18.08	19.50	33.46	1.72
Mugnone 02	141 MG1091 A	4.50	146.31	133.71	136.35	4.29	1.00	137.29	0.0097	0.03	19.73	18.78	34.86	1.82
Mugnone 02	138 MG1091 D	14.42	146.31	133.35	135.53	5.43	1.41	137.04	0.0199	0.29	18.30	18.54	27.06	1.45
Mugnone 02	137 MG1092	20.04	146.31	133.43	135.17	4.97	1.41	136.43	0.0205	0.34	23.14	23.71	29.46	1.24
Mugnone 02	136 MG1093	19.79	146.30	133.09	134.64	3.58	1.12	135.30	0.0138	0.28	39.61	40.09	40.92	1.02
Mugnone 02	135 MG1094	19.27	146.30	132.54	134.37	3.57	1.13	135.02	0.0146	0.22	40.65	41.14	40.99	1.00
Mugnone 02	134 MG1095	20.82	146.29	132.45	134.09	2.93	0.89	134.52	0.0084	0.20	44.76	45.24	49.93	1.10
Mugnone 02	133 MG1096	22.66	146.29	132.13	133.88	3.22	0.99	134.41	0.0104	0.33	41.80	42.29	45.44	1.07
Mugnone 02	132 MG1097	23.41	146.28	131.88	133.54	3.82	1.28	134.28	0.0194	0.34	41.17	41.55	38.27	0.92
Mugnone 02	131 MG1098	17.69	146.28	131.18	133.17	3.45	0.99	133.77	0.0101	0.18	34.05	34.57	42.39	1.23
Mugnone 02	130 MG1099	21.41	146.28	130.84	132.98	3.58	1.01	133.63	0.0106	0.31	32.02	32.82	40.83	1.24
Mugnone 02	129 MG1100	15.22	146.26	131.01	132.65	4.04	1.30	133.49	0.0195	0.24	35.61	36.11	36.16	1.00
Mugnone 02	128 MG1101	20.29	146.63	130.42	132.37	3.51	1.04	132.99	0.0120	0.23	36.01	36.68	41.74	1.14
Mugnone 02	127 MG1102	20.40	146.61	130.36	132.13	3.40	1.00	132.72	0.0110	0.25	36.37	37.13	43.17	1.16
Mugnone 02	126 MG1103	22.82	146.56	130.17	131.90	3.49	1.10	132.53	0.0134	0.26	36.55	37.02	41.96	1.13
Mugnone 02	125 MG1104	20.24	146.49	129.54	131.65	3.09	0.92	132.13	0.0091	0.19	36.04	36.89	47.34	1.28
Mugnone 02	124 MG1105	19.35	146.44	129.39	131.49	3.19	0.94	132.01	0.0093	0.17	32.77	33.48	45.86	1.37
Mugnone 02	123 MG1106	20.63	146.38	129.03	131.35	3.07	0.88	131.82	0.0081	0.13	32.15	32.84	47.86	1.46
Mugnone 02	122 MG1107	20.38	156.99	128.58	131.21	2.66	0.67	131.57	0.0043	0.08	32.72	33.80	59.04	1.75
Mugnone 02	121 MG1108	21.34	156.88	128.24	131.15	2.48	0.59	131.47	0.0033	0.09	32.37	33.67	63.22	1.88
Mugnone 02	120 MG1109	18.85	156.82	128.41	131.03	2.74	0.70	131.42	0.0048	0.07	31.58	32.74	57.21	1.75
Mugnone 02	119 MG1110	19.14	156.73	127.72	131.01	2.21	0.49	131.26	0.0022	0.04	32.32	33.63	70.78	2.10
Mugnone 02	118 MG1111	25.53	156.70	127.58	131.00	2.07	0.43	131.22	0.0016	0.05	31.92	33.49	75.76	2.26
Mugnone 02	117 MG1112	17.64	156.64	127.71	130.92	2.21	0.52	131.17	0.0025	0.04	38.09	39.30	71.04	1.84
Mugnone 02	116 MG1113	21.25	156.63	127.27	130.92	1.91	0.41	131.10	0.0015	0.03	36.95	38.13	81.93	2.15
Mugnone 02	115 MG1114	17.66	157.09	126.92	130.89	1.90	0.42	131.07	0.0016	0.04	37.27	38.73	82.71	2.14
Mugnone 02	114 MG1115	15.12	157.07	127.00	130.76	2.35	0.55	131.04	0.0028	0.05	32.49	33.88	66.81	1.97
Mugnone 02	113 MG1116	17.48	157.05	127.07	130.67	2.61	0.63	131.01	0.0039	0.08	30.94	32.22	60.07	1.86
Mugnone 02	112 MG1117	17.08	157.06	127.08	130.57	2.79	0.70	130.97	0.0047	0.07	28.73	30.24	56.38	1.86
Mugnone 02	111 MG1118	23.63	157.12	126.55	130.53	2.61	0.62	130.88	0.0037	0.07	29.30	30.79	60.20	1.95
Mugnone 02	110 MG1119	22.56	157.11	126.41	130.51	2.22	0.51	130.76	0.0024	0.04	31.46	32.99	70.64	2.14
Mugnone 02	109 MG1120 A	3.06	157.10	126.31	130.51	1.88	0.36	130.70	0.0010		29.15	32.00	83.76	2.62
Mugnone 02	108 MG2120 B	3.68	157.10	126.72	130.47	2.08	0.37	130.69	0.0012		23.83	30.09	75.66	2.51
Mugnone 02	107 MG2120 C	3.25	157.09	126.75	129.20	3.56	0.82	129.85	0.0068	0.02	23.06	26.74	44.11	1.65
Mugnone 02	106 MG1120 D	4.71	157.09	126.40	129.14	3.14	0.76	129.65	0.0048	0.02	28.24	29.45	50.02	1.70
Mugnone 02	105.5	1.00	157.09	126.00	129.11	3.27	0.77	129.65	0.0056	0.01	26.20	27.28	48.05	1.76
Mugnone 02	105.4	5.65	157.09	126.00	129.10	3.28	0.77	129.65	0.0056	0.03	26.17	27.25	47.88	1.76
Mugnone 02	105	9.30	158.14	126.00	129.06	3.37	0.80	129.64	0.0060	0.08	26.02	27.08	46.94	1.73
Mugnone 02	104	8.01	158.13	126.45	128.97	3.93	1.01	129.75	0.0103	0.07	26.22	27.24	40.26	1.48
Mugnone 02	103 MG1123	13.61	158.13	126.24	128.85	3.50	0.86	129.48	0.0071	0.08	26.44	27.54	45.12	1.64
Mugnone 02	102 MG1124	21.76	158.12	125.93	128.72	2.92	0.67	129.15	0.0041	0.08	28.10	29.19	54.20	1.86
Mugnone 02	101 MG1125	23.49	158.11	126.32	128.66	2.39	0.60	128.95	0.0035	0.08	41.36	42.19	66.26	1.57
Mugnone 02	100 MG1126	31.77	158.10	126.33	128.59	2.30	0.60	128.86	0.0036	0.12	46.23	47.04	68.60	1.46
Mugnone 02	99 MG1127	36.51	158.10	126.24	128.41	2.68	0.67	128.77	0.0043	0.15	36.10	36.94	59.04	1.60
Mugnone 02	98 MG2128 A	10.83	158.95	126.28	128.28	2.16	0.63	128.52	0.0043		59.57	60.31	73.61	1.22
Mugnone 02	97 MG2128 B	35.20	158.80	122.98	125.75	1.82	0.43	125.92	0.0017	0.12	44.90	46.19	87.12	1.89
Mugnone 02	96 MG1129	32.52	158.81	122.60	125.51	3.00	0.74	125.96	0.0054	0.17	29.42	30.49	53.02	1.74
Mugnone 02	95 MG1130	33.61	158.81	122.24	125.32	3.28	0.76	125.86	0.0053	0.22	25.42	26.51	48.41	1.83
Mugnone 02	94 MG1131	37.94	158.79	121.93	125.08	3.73	0.90	125.79	0.0077	0.25	24.19	25.33	42.58	1.68
Mugnone 02	93 MG1132	33.37	158.77	121.49	124.78	3.21	0.75	125.30	0.0055	0.24	26.51	27.70	49.49	1.79
Mugnone 02	92 MG1133	26.63	158.76	121.03	124.49	4.36	0.98	125.46	0.0093	0.26	17.98	19.74	36.45	1.85
Mugnone 02	91 MG1134	27.59	158.75	120.63	124.22	4.31	1.03	125.17	0.0105	0.32	20.58	22.20	36.82	1.66
Mugnone 02	90 MG1135	28.37	159.66	120.75										

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	88 MG1137	36.32	159.65	120.32	123.36	2.91	0.64	123.79	0.0038	0.19	25.37	26.91	54.85	2.04
Mugnone 02	87 MG1138	29.70	160.01	119.75	123.12	4.10	0.85	123.98	0.0069	0.21	16.54	18.58	39.00	2.10
Mugnone 02	86 MG1139	27.31	160.01	119.84	122.86	3.70	0.88	123.56	0.0076	0.21	24.32	25.53	43.28	1.70
Mugnone 02	85 MG1140	28.69	159.68	119.56	122.65	3.64	0.89	123.33	0.0078	0.17	24.10	25.57	43.86	1.72
Mugnone 02	84 MG1141	21.11	159.68	119.16	122.43	3.07	0.70	122.91	0.0045	0.09	26.29	27.42	51.98	1.90
Mugnone 02	83 MG1142	1.40	158.71	119.13	122.35	2.71	0.68	122.73	0.0045	0.01	33.56	34.70	58.53	1.69
Mugnone 02	82.7	1.01	158.71	119.13	122.35	2.72	0.68	122.72	0.0046		33.54	34.67	58.26	1.68
Mugnone 02	82.4	20.25	158.71	119.13	122.34	2.73	0.68	122.72	0.0046	0.09	33.52	34.65	58.07	1.68
Mugnone 02	82 MG1143	25.58	165.10	118.84	122.20	2.95	0.69	122.65	0.0047	0.09	29.14	30.86	55.87	1.81
Mugnone 02	81 MG1144 A	2.01	161.88	118.79	122.14	2.47	0.50	122.46	0.0023		25.69	29.36	65.47	2.23
Mugnone 02	80 MG2144 B	5.50	161.88	118.56	122.21	1.94	0.38	122.40	0.0014		31.62	36.80	83.31	2.26
Mugnone 02	79 MG2144 C	2.09	161.88	118.26	121.10	3.05	0.77	121.57	0.0063	0.01	31.82	34.45	53.04	1.54
Mugnone 02	78 MG1144 D	17.35	161.88	118.29	121.07	3.16	0.80	121.58	0.0063	0.10	28.76	30.11	51.20	1.70
Mugnone 02	77 MG1145	20.44	165.51	117.69	120.98	3.19	0.73	121.50	0.0052	0.12	26.50	27.75	51.90	1.87
Mugnone 02	76 MG1146	22.05	165.60	117.54	120.86	3.27	0.80	121.41	0.0064	0.13	28.91	29.99	50.61	1.69
Mugnone 02	75 MG1147	22.19	165.91	117.56	120.74	3.27	0.76	121.28	0.0055	0.12	26.43	27.71	50.77	1.83
Mugnone 02	74 MG1148	23.42	166.26	117.38	120.62	3.27	0.74	121.17	0.0051	0.13	25.34	26.72	50.89	1.90
Mugnone 02	73 MG1149	23.04	166.25	117.21	120.50	3.35	0.77	121.07	0.0056	0.11	24.86	26.04	49.69	1.91
Mugnone 02	72 MG1150	22.38	166.23	117.08	120.38	3.19	0.68	120.90	0.0042	0.09	23.30	24.73	52.07	2.11
Mugnone 02	71 MG1151	26.10	165.55	116.85	120.31	2.93	0.63	120.75	0.0037	0.10	25.19	27.00	56.50	2.09
Mugnone 02	70 MG1152	20.97	167.16	116.74	120.19	3.02	0.68	120.66	0.0042	0.08	27.02	28.35	55.27	1.95
Mugnone 02	69 MG1153	16.94	167.09	116.45	120.14	2.44	0.63	120.44	0.0040	0.05	39.52	41.51	68.56	1.65
Mugnone 02	68 MG1154 A	2.24	167.10	116.40	120.10	2.34	0.51	120.38	0.0024	0.01	33.44	34.66	71.51	2.06
Mugnone 02	67.8	0.75	167.08	116.40	120.10	2.34	0.51	120.38	0.0024		33.39	34.61	71.28	2.06
Mugnone 02	67 MG1154 B	4.15	173.84	116.48	119.99	2.73	0.56	120.37	0.0028	0.01	26.67	28.40	63.71	2.24
Mugnone 02	66 MG1154 C	2.93	173.84	116.42	119.98	2.71	0.60	120.35	0.0033	0.01	30.71	31.85	64.13	2.01
Mugnone 02	65 MG1154 D	16.16	173.68	116.37	120.02	2.16	0.49	120.26	0.0023	0.06	38.06	39.76	80.57	2.03
Mugnone 02	64 MG1155	16.92	173.28	116.12	119.83	3.49	0.74	120.46	0.0050	0.11	21.85	23.54	49.58	2.11
Mugnone 02	63 MG1156	12.23	173.41	115.95	119.69	4.19	0.93	120.59	0.0083	0.09	20.02	21.87	41.39	1.89
Mugnone 02	62 MG1157	16.76	173.41	115.97	119.57	3.92	0.82	120.35	0.0064	0.12	19.14	21.23	44.21	2.08
Mugnone 02	61 MG1158	13.53	173.40	115.84	119.43	4.31	0.91	120.38	0.0079	0.12	17.41	19.62	40.22	2.05
Mugnone 02	60 MG1159	12.89	173.38	115.86	119.30	4.60	0.98	120.38	0.0092	0.10	16.67	18.68	37.68	2.02
Mugnone 02	59 MG1160	15.62	173.38	115.54	119.14	4.19	0.85	120.04	0.0069	0.13	16.66	18.98	41.41	2.18
Mugnone 02	58 MG1161	18.85	173.38	116.01	118.98	4.81	1.04	120.16	0.0104	0.16	16.43	18.30	36.04	1.97
Mugnone 02	57 MG1162	19.80	173.35	115.59	118.70	3.87	0.84	119.46	0.0064	0.14	20.45	21.85	44.79	2.05
Mugnone 02	56 MG1163	21.25	173.35	115.24	118.55	3.91	0.91	119.33	0.0082	0.16	23.32	25.13	44.30	1.76
Mugnone 02	55 MG1164	25.84	173.34	115.07	118.34	3.43	0.84	118.94	0.0072	0.19	29.06	30.80	50.61	1.64
Mugnone 02	54 MG1165	23.21	173.33	114.89	118.16	3.57	0.87	118.81	0.0077	0.15	27.40	29.40	48.54	1.65
Mugnone 02	53 MG1166	21.84	173.32	114.73	118.00	3.43	0.77	118.60	0.0056	0.12	24.92	26.05	50.57	1.94
Mugnone 02	52 MG1167	23.70	173.32	114.53	117.87	3.58	0.77	118.52	0.0054	0.20	22.19	23.56	48.46	2.06
Mugnone 02	51 MG1168	22.02	173.32	114.43	117.61	5.04	1.07	118.90	0.0111	0.26	15.33	17.18	34.41	2.00
Mugnone 02	50 MG1169	19.28	174.23	114.32	117.28	4.57	1.12	118.35	0.0126	0.16	21.74	22.97	38.15	1.66
Mugnone 02	49 MG1000	9.76	174.23	113.85	116.92	2.58	0.61	117.25	0.0041		37.35	41.82	67.63	1.62
Mugnone 02	47 MG0980	49.66	173.74	106.02	111.05	1.65	0.28	111.19	0.0007	0.03	28.74	35.43	105.36	2.97
Mugnone 02	46 MG0970	52.15	173.74	106.02	111.01	1.66	0.28	111.15	0.0007	0.12	29.13	33.64	104.35	3.10
Mugnone 02	45 MG0966 A	2.00	168.42	104.96	110.54	3.42	0.53	111.13	0.0041	0.01	11.75	20.63	49.24	2.39
Mugnone 02	44 MG0966 B	0.10	168.42	104.96	110.51	3.49	0.54	111.13	0.0042		11.38	20.24	48.24	2.38
Mugnone 02	43 MG0965 C	2.00	168.42	104.96	109.54	4.51	0.79	110.58	0.0086	0.02	11.13	18.22	37.38	2.05
Mugnone 02	42 MG0965 D	28.98	168.42	104.97	109.52	4.60	0.81	110.60	0.0092	0.20	11.01	18.18	36.60	2.01
Mugnone 02	41 MG0960	42.26	170.02	104.73	109.18	3.46	0.66	109.79	0.0048	0.14	17.58	23.13	49.19	2.13
Mugnone 02	40 MG0950 A	2.29	170.02	105.32	109.11	2.25	0.45	109.37	0.0018		29.68	32.49	75.67	2.33
Mugnone 02	39 MG0950 B	4.16	170.02	105.32	109.10	2.28	0.46	109.36	0.0019		29.57	32.57	74.64	2.29
Mugnone 02	38 MG0930 C	1.12	169.94	105.32	107.73	4.14	1.02	108.60	0.0106	0.01	22.32	24.09	41.07	1.70
Mugnone 02	37 MG0930 D	72.65	169.93	104.60	107.71	4.08	1.07	108.56	0.0135	0.65	24.80	28.73	41.65	1.45
Mugnone 02	36 MG0920	79.80	169.84	103.67	107.04	2.98	0.66	107.49	0.0043	0.75	25.90	28.37	57.01	2.01
Mugnone 02	35 MG0910	133.07	172.79	102.93	106.28	5.32	1.15	107.72	0.0144	1.57	13.38	16.45	32.48	1.97
Mugnone 02	34 MG0900 A	2.44	174.54	100.31	104.61	4.59	0.95	105.69	0.0107	0.02	16.12	21.25	38.05	1.94
Mugnone 02	33 MG0890 B	0.10	174.54	100.31	104.56	5.24	0.89	105.96	0.0085		15.27	12.74	36.79	2.61
Mugnone 02	32 MG0890 C	2.14	174.54	100.31	103.35	7.83	1.76	106.47	0.0406	0.10	10.92	14.82	22.29	1.50
Mugnone 02	31 MG0880 D	104.31	174.54	100.58	103.12	9.26	2.12	107.49	0.0575	3.70	9.25	12.56	18.85	1.50
Mugnone 02	30 MG0870	40.13	174.51	95.77	98.66	5.39	1.14	100.14	0.0136	0.56	14.31	16.92	32.39	1.91
Mugnone 02	29 MG0860	18.37	174.49	95.08	98.06	5.08	1.12	99.38	0.0144	0.27	16.09	19.93	34.34	1.72
Mugnone 02	28 MG0850	28.69	174.46	95.03	97.81	5.11	1.15	99.14	0.0146	0.37	16.82	19.81	34.16	1.72
Mugnone 02	27 MG0840	8.09	174.43	94.42	97.31	3.93	1.04	98.10	0.0111	0.10	26.04	27.47	44.38	1.62
Mugnone 02	26 MG0820	18.82	174.00	94.09	97.23	3.86	1.07	97.99	0.0128	0.20	26.51	29.87	45.13	1.51
Mugnone 02	25 MG0800	69.14	174.40	94.17	97.06	4.09	0.95	97.91	0.0088	0.46	20.85	22.34	42.59	1.91
Mugnone 02	24 MG0790 A	2.05	174.37	92.41	96.55	3.33	0.67	97.11	0.0045	0.01	20.73	24.00	52.38	2.18
Mugnone 02	23 MG0790 B	0.10	174.37	92.41	96.52	3.44	0.68	97.12	0.0044		20.66	21.62	51.74	2.34
Mugnone 02	22 MG0780 C	2.28	174.33	92.41	96.40	3.61	0.74	97.06	0.0052	0.01	21.28	21.35	50.09	2.26
Mugnone 02	21 MG0770 D	76.09	174.34	92.81	96.38	3.57	0.74	97.03	0.0050	0.50	20.26	22.04	48.88	2.22
Mugnone 02	20 MG0760	75.61	174.31	92.12	95.85	4.49	0.89	96.88	0.0081	0.51	15.07	18.12	38.79	2.14
Mugnone 02	19 MG0750	42.15	174.28	91.84	95.22	3.49	0.74	95.84	0.0053	0.17	22.20	24.84	49.89	2.05
Mugnone 02	18 MG0740	23.06	173.54	91.34	95.04	2.78	0.57	95.43	0.0030	0.37	25.40	28.16	62.50	2.22
Mugnone 02	17 MG0730	17.77	167.31	91.07	94.58	5.67	1.45	96.21	0.0291	0.31	17.80	23.35	29.52	1.26
Mugnone 02	16 MG0720	40.86	162.57	90.68	93.99	3.48	0.77	94.60	0.0063	0.18	22.08	25.64	46.67	1.82
Mugnone 02	15 MG0710	20.88	153.92	90.49	93.78	2.80	0.53	94.18	0.0028		19.67	23.53	55.04	2.34
Mugnone 02	14 MG0700	80.78	153.92	84.26	87.62	2.64	0.61	87.97	0.0035	1.97	30.46	32.29	58.37	1.81
Mugnone 02	13 MG0690	224.95												

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	12 MG0660	66.99	175.68	75.97	78.94	4.86	1.02	80.14	0.0105	0.44	15.62	18.23	36.18	1.99
Mugnone 02	11 MG0650 A	4.33	175.67	75.43	78.23	2.51	0.56	78.55	0.0028	0.01	34.16	35.15	70.09	1.99
Mugnone 02	10 MG0650 B	0.10	175.67	75.43	78.21	2.53	0.56	78.54	0.0028		34.04	35.03	69.53	1.98
Mugnone 02	9 MG0640 C	6.36	175.56	75.43	77.74	3.30	0.90	78.27	0.0081	0.04	30.73	31.55	54.22	1.72
Mugnone 02	8 MG0630 D	107.52	175.45	74.99	77.66	2.22	0.55	77.91	0.0031	0.60	41.54	44.58	79.20	1.78
Mugnone 02	7 MG0620	129.00	175.37	73.46	77.02	4.26	0.86	77.94	0.0081	1.00	16.34	20.83	41.20	1.98
Mugnone 02	6 MG0610 A	2.34	175.56	72.20	76.02	4.31	0.78	76.97	0.0074	0.02	13.06	18.84	40.69	2.16
Mugnone 02	5 MG0610 B	0.01	175.56	72.20	76.00	4.34	0.79	76.96	0.0075		13.06	18.81	40.44	2.15
Mugnone 02	4 MG0600 C	2.04	175.55	72.20	74.97	6.48	1.51	77.11	0.0277	0.05	12.92	16.74	27.10	1.62
Mugnone 02	3 MG0590 D	308.41	175.54	71.91	74.90	6.36	1.37	76.96	0.0231	4.71	11.91	16.03	27.60	1.72
Mugnone 02	2 MG0580	122.53	175.13	66.56	70.05	3.99	0.86	70.86	0.0075	1.07	19.81	22.75	43.90	1.98
Mugnone 02	1 MG0570		175.30	65.04	68.94	4.95	0.91	70.19	0.0100		11.33	16.72	35.40	2.12
Affluente	3	33.63	5.34	131.76	132.09	3.07	2.09	132.57	0.0812	1.69	7.85	7.92	1.74	0.22
Affluente	2	32.62	5.34	129.78	130.50	1.97	1.10	130.68	0.0196	0.32	6.47	6.66	2.82	0.42
Affluente	1	11.61	5.34	128.35	130.25	0.45	0.16	130.26	0.0003	0.01	14.31	14.95	11.84	0.82
Affluente	0.5	1.00	5.34	128.43	130.20	1.02	0.37	130.26	0.0021	0.01	6.02	7.22	5.23	0.72
Bargellino	12 BA1002 D	4.89	0.10	173.13	173.50	0.15	0.11	173.50	0.0004	0.18	3.79	3.90	0.95	0.24
Bargellino	11.96	4.89	4.42	172.76	173.27	2.94	1.58	173.71	0.0746	0.36	4.27	4.46	1.50	0.34
Bargellino	11 BA1003	4.90	4.49	162.82	163.45	2.84	1.45	163.86	0.0627	0.31	4.00	4.24	1.58	0.37
Bargellino	10 BA1004 A	2.50	7.73	158.80	159.66	1.90	0.89	159.84	0.0209	0.35	8.77	8.97	4.07	0.45
Bargellino	9 BA1004 B	1.80	7.73	158.72	159.20	4.93	2.89	160.44	0.2571	0.48	5.27	5.41	1.57	0.29
Bargellino	8.8	2.00	7.73	155.31	156.01	4.01	2.12	156.83	0.1327	0.27	5.25	5.44	1.93	0.35
Bargellino	8.6	2.00	7.72	153.86	154.66	4.21	2.09	155.51	0.1349	0.27	3.97	4.38	1.89	0.43
Bargellino	8.4	2.00	7.71	152.48	154.18	2.30	1.04	154.23	0.0306	0.05	10.67	11.42	7.86	0.70
Bargellino	8.2	2.00	7.64	152.08	154.18	1.87	0.74	154.22	0.0153	0.02	8.46	9.96	8.70	0.87
Bargellino	8 BA2005 A	2.00	7.43	151.81	154.20	1.26	0.50	154.22	0.0038		9.38	11.73	12.06	1.03
Bargellino	7 BA2005 B		7.43	151.54	154.20	0.49	0.16	154.21	0.0003		12.09	14.65	21.42	1.46
Caldine	11 CD1001	4.27	7.90	166.28	167.03	3.69	1.75	167.72	0.0497	0.20	4.69	4.97	2.14	0.43
Caldine	10 CD2002 A	2.01	7.89	165.00	166.29	1.54	0.57	166.41	0.0044		6.95	7.54	5.14	0.68
Caldine	9 CD2002 B	7.62	7.89	163.12	164.91	0.75	0.20	164.94	0.0006	0.01	6.55	9.15	10.59	1.16
Caldine	8 CD2002 C	0.05	7.89	163.00	164.90	0.88	0.21	164.94	0.0008		4.99	8.77	9.01	1.03
Caldine	7 CD2002 D	1.02	7.89	163.00	164.89	0.88	0.21	164.93	0.0008		4.99	8.75	8.97	1.03
Caldine	6 CD2002 E	1.02	7.89	163.00	164.87	1.02	0.24	164.93	0.0012		4.12	7.85	7.70	0.98
Caldine	5 CD2002 F	1.02	7.89	163.00	164.87	1.02	0.24	164.92	0.0012		4.13	7.86	7.71	0.98
Caldine	4 CD2002 G	189.26	7.89	163.00	164.73	2.08	0.53	164.95	0.0085		2.40	5.82	3.79	0.66
Caldine	3 CD2002 H	2.03	7.89	151.48	152.79	2.41	0.68	153.09	0.0117	0.02	2.57	5.13	3.27	0.64
Caldine	2 CD2002 I	3.29	7.89	151.41	152.81	1.90	0.56	152.99	0.0057	0.02	3.54	5.41	4.14	0.77
Caldine	1.9	5.29	7.88	151.41	152.78	1.95	0.58	152.97	0.0061		3.52	5.35	4.05	0.76
Caldine	1	4.87	7.26	148.61	151.30	0.22	0.06	151.30	0.0000		19.87	21.01	32.50	1.55
Caldine	0.5		1.00	148.61	151.30	0.03	0.01	151.30	0.0000		19.87	21.01	32.51	1.55
Capparello	11	0.92	15.67	187.06	188.04	5.79	2.50	189.75	0.0971	0.09	4.92	5.38	2.71	0.50
Capparello	10	2.15	15.67	186.76	187.40	4.80	2.52	188.46	0.1032	0.12	6.14	6.60	3.45	0.52
Capparello	9	0.10	15.67	186.22	187.18	2.31	0.87	187.46	0.0096		8.90	7.00	7.69	0.97
Capparello	8	2.02	15.67	185.70	186.36	3.37	1.32	186.94	0.0216	0.07	8.13	7.00	5.03	0.67
Capparello	7	4.54	15.67	185.55	186.27	3.95	1.67	187.07	0.0440	0.20	6.98	7.90	3.97	0.50
Capparello	5	0.44	15.65	183.61	184.99	2.11	0.58	185.21	0.0055		5.56	8.07	7.43	0.92
Capparello	4	0.92	15.65	182.14	183.71	1.81	0.46	183.88	0.0036		5.54	8.64	8.66	1.00
Capparello	3	0.55	15.65	182.33	183.66	2.02	0.57	183.87	0.0052		6.01	8.53	7.73	0.91
Capparello	2	22.00	4.30	179.97	183.00	0.24	0.04	183.00	0.0000		6.01	12.05	18.19	1.51
Capparello	1		3.00	178.11	183.00	0.02		183.00			40.25	44.46	145.72	3.28
Fossataccio	21 FO1001	4.61	1.85	153.35	153.69	2.72	2.03	154.07	0.0807	0.37	3.68	3.75	0.68	0.18
Fossataccio	20 FO1002	4.53	1.83	149.68	150.23	2.83	1.59	150.58	0.0523	0.35	1.85	2.29	0.70	0.31
Fossataccio	19 FO1003	4.52	4.66	146.97	147.62	3.22	1.75	148.15	0.0517	0.23	4.19	4.39	1.44	0.33
Fossataccio	18 FO1004	4.81	4.65	144.62	145.31	3.47	1.62	145.92	0.0454	0.22	2.88	3.35	1.34	0.40
Fossataccio	17 FO1005	4.65	4.65	142.64	143.31	3.47	1.81	143.93	0.0546	0.25	3.57	3.85	1.34	0.35
Fossataccio	16 FO1006	4.79	4.65	140.17	140.60	4.81	2.73	141.77	0.1355	0.66	3.06	3.29	0.97	0.29
Fossataccio	15 FO1007	4.95	5.28	131.33	131.84	3.62	1.78	132.50	0.0544	0.27	3.43	3.91	1.46	0.37
Fossataccio	14 FO1008	1.99	5.18	128.83	130.24	1.13	0.43	130.30	0.0027	0.01	6.14	6.86	4.85	0.71
Fossataccio	13.4	0.82	5.12	128.70	130.20	1.13	0.43	130.26	0.0027		6.02	6.87	4.86	0.71
Fossataccio 02	13.1	1.00	10.45	128.34	130.20	1.96	0.69	130.39	0.0076		6.01	7.34	5.34	0.73
Fossataccio 02	13 FO1009 A	1.00	10.45	125.65	126.82	4.24	1.46	127.74	0.0410	0.03	2.71	4.09	2.47	0.60
Fossataccio 02	12.7	0.50	10.45	125.62	126.72	3.25	1.00	127.26	0.0217	0.01	2.95	5.09	3.21	0.63
Fossataccio 02	12 FO1009 B	0.10	10.45	125.54	126.65	3.21	0.98	127.18	0.0209		2.95	5.11	3.25	0.64
Fossataccio 02	11 FO2009 C	1.00	10.45	123.21	124.04	4.19	1.60	124.93	0.0517	0.05	3.03	4.68	2.50	0.53
Fossataccio 02	10 FO2009 D	1.89	10.45	123.15	123.99	4.13	1.58	124.85	0.0500	0.09	3.03	4.70	2.53	0.54
Fossataccio 02	9 FO2010 A	1.00	10.45	121.81	123.22	2.65	0.74	123.58	0.0124	0.01	2.81	5.61	3.95	0.70
Fossataccio 02	8 FO2010 B	1.80	10.45	121.79	123.21	2.63	0.73	123.56	0.0122	0.02	2.81	5.64	3.98	0.71
Fossataccio 02	7 FO2010 C	1.00	10.45	121.65	123.13	2.51	0.67	123.46	0.0108	0.01	2.81	5.77	4.16	0.72
Fossataccio 02	6 FO2010 D	0.90	10.45	121.64	123.13	2.41	0.71	123.43	0.0111	0.01	3.30	6.27	4.34	0.69
Fossataccio 02	5 FO2011 A	1.00	10.45	121.60	123.15	1.83	0.52	123.32	0.0053	0.01	4.01	7.09	5.72	0.81
Fossataccio 02	4 FO2011 B	113.19	10.45	121.59	123.15	1.82	0.52	123.32	0.0052		4.01	7.11	5.74	0.81
Fossataccio 02	3 FO2011 C	1.00	10.45	119.70	120.79	1.99	0.64	120.99	0.0070	0.01	4.81	6.99	5.27	0.75
Fossataccio 02	2 FO2011 D	36.48	10.45	119.67	120.79	1.94	0.61	120.98	0.0064	1.09	4.81	7.04	5.39	0.76
Fossataccio 02	1 FO1012	22.15	10.45	118.69	119.61	4.59	1.86	120.69	0.0539	0.60	3.67	4.26	2.28	0.53
Fossataccio 02	0.5		0.81	116.57	118.80	0.02	0.01	118.80			23.45	24.21	33.72	1.39
Molina	16 ML1001	20.29	11.51	218.05	218.45	5.92	3.91	220.24	0.2993	3.69	8.33	8.46	1.95	0.23
Molina	15 ML2002	2.72	11.51	213.75	214.88	5.38	1.80	216.36	0.0701	0.18	2.35	3.84	2.14	0.56
Molina	14 ML2003 A	0.44	11.50	212.58	213.41	5.76	2.82	215.09	0.1510	0.05	3.87	4.80	2.01	0.42

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Molina	13 ML2003 B	1.02	11.50	212.15	213.07	2.90	1.05	213.50	0.0179	0.01	5.11	6.41	3.97	0.63
Molina	12 ML2003 C	33.65	11.50	212.11	213.03	2.37	0.80	213.32	0.0079		6.44	5.25	5.40	0.92
Molina	11 ML2003 D	2.04	11.50	209.02	210.06	2.12	0.73	210.28	0.0064	0.04	6.10	5.25	5.88	1.04
Molina	10 ML2003 E	2.77	11.50	208.96	209.98	3.61	1.35	210.64	0.0342	0.09	3.33	5.06	3.18	0.63
Molina	9 ML2004	2.92	11.50	208.00	209.49	4.14	1.15	210.37	0.0378	0.10	2.11	4.64	2.78	0.60
Molina	8 ML1005	2.80	11.50	207.36	208.24	8.34	3.24	211.79	0.2317	0.64	2.04	3.15	1.38	0.44
Molina	7 ML2006	3.80	11.85	203.91	204.62	5.54	2.30	206.18	0.1047	0.36	3.05	4.41	2.14	0.48
Molina	6 ML2007 A	1.01	11.85	202.71	203.81	3.53	1.15	204.45	0.0267	0.02	3.07	5.21	3.35	0.64
Molina	5 ML2007 B	0.10	11.85	202.61	203.77	3.22	0.99	204.30	0.0111		3.17	3.16	3.69	1.16
Molina	4 ML2007 C	1.00	11.85	202.41	203.05	5.87	2.34	204.80	0.0759	0.09	3.17	3.16	2.02	0.64
Molina	3 ML2007 D	4.37	11.85	202.31	202.95	5.81	2.31	204.67	0.1057	0.54	3.17	4.45	2.04	0.46
Molina	2 ML2008	4.51	11.85	199.27	200.04	5.34	1.97	201.49	0.0792	0.36	2.90	4.43	2.22	0.50
Molina	1 ML2009	15.76	11.85	197.17	197.94	4.86	1.77	199.14	0.0630	0.50	3.18	4.70	2.44	0.52
Molina	0.25	1.00	5.22	192.28	197.20	0.08	0.01	197.20	0.0000		21.21	26.11	66.44	2.54
Molina	0.2		3.50	192.23	197.20	0.05	0.01	197.20	0.0000		21.21	26.18	66.59	2.54
Ponticello	23 PN1001	4.99	17.23	149.11	150.01	4.38	1.86	150.99	0.0486	0.24	6.95	7.28	3.93	0.54
Ponticello	22 PN1002 A	3.00	17.17	145.89	147.27	4.32	1.93	147.92	0.0581	0.11	5.41	6.34	4.80	0.76
Ponticello	21 PN2002 B	12.00	17.17	145.50	147.18	2.94	0.86	147.62	0.0148	0.14	3.48	6.84	5.85	0.86
Ponticello	20 PN2002 C	3.00	17.16	145.10	147.07	2.55	0.67	147.41	0.0091	0.02	3.48	7.33	6.73	0.92
Ponticello	19 PN1002 D	4.04	17.16	145.00	147.08	2.37	0.57	147.36	0.0068	0.03	3.49	7.63	7.24	0.95
Ponticello	18 PN2003 A	0.50	17.16	144.70	146.85	2.67	0.58	147.22	0.0093		3.00	7.28	6.43	0.88
Ponticello	17 PN2003 B	1.00	17.16	142.90	144.98	2.76	0.68	145.37	0.0108	0.01	2.99	7.14	6.21	0.87
Ponticello	16 PN2004 A	0.50	17.16	142.87	144.97	2.74	0.67	145.36	0.0105	0.01	2.99	7.16	6.25	0.87
Ponticello	15 PN2004 B	0.60	17.16	142.85	144.97	2.72	0.66	145.35	0.0101	0.01	2.99	7.21	6.32	0.88
Ponticello	14 PN2004 C	0.50	17.16	142.82	144.97	2.68	0.64	145.34	0.0095		2.99	7.27	6.40	0.88
Ponticello	13 PN2004 D	4.79	17.16	142.80	144.97	2.65	0.62	145.33	0.0091	0.04	3.00	7.32	6.48	0.89
Ponticello	12 PN2005 A	1.17	17.16	142.65	145.02	1.61	0.35	145.15	0.0024		4.51	9.23	10.66	1.16
Ponticello	11 PN2005 B	35.33	17.16	142.64	144.90	2.24	0.51	145.15	0.0058		3.40	7.89	7.65	0.97
Ponticello	8 PN2005 E	2.83	17.11	141.03	142.47	2.99	0.80	142.92	0.0126	0.06	3.99	6.85	5.72	0.84
Ponticello	7 PN1005 F	4.76	17.10	140.70	142.42	3.41	1.46	142.92	0.0338	0.14	5.86	7.27	5.49	0.75
Ponticello	6 PN1006 A	2.00	13.84	139.53	142.31	1.17	0.35	142.35	0.0016		11.87	13.69	16.07	1.17
Ponticello	5 PN2006 B	0.20	13.84	139.49	142.24	1.54	0.38	142.35	0.0029	0.01	3.99	8.38	9.48	1.13
Ponticello	4 PN2006 C	2.06	13.81	139.22	140.52	3.50	1.03	141.15	0.0206	0.07	3.36	5.38	3.94	0.73
Ponticello	3 PN1006 D	1.88	13.80	139.07	140.40	4.78	1.73	141.56	0.0489	0.09	3.68	4.67	2.89	0.62
Ponticello	2 PN1007	4.45	14.16	138.36	139.22	6.14	2.64	141.14	0.1058	0.35	4.18	4.63	2.31	0.50
Ponticello	1 PN1008	11.70	1.93	136.35	138.40	0.13	0.03	138.40	0.0000		9.63	11.59	14.52	1.25
Ponticello	0.5		1.00	134.06	138.40	0.01		138.40			27.84	30.33	76.10	2.51
Pian Mugnone	16 PD1001	36.33	1.54	142.91	143.57	1.15	0.68	143.64	0.0083	0.27	4.41	4.64	1.34	0.29
Pian Mugnone	15 PD1002 A	1.01	1.51	142.71	143.31	1.21	0.62	143.38	0.0067		3.13	3.56	1.24	0.35
Pian Mugnone	14.1	1.00	1.51	134.10	134.56	1.83	0.86	134.73	0.0181	0.02	1.78	2.71	0.82	0.30
Pian Mugnone	14 PD2002 B	0.10	1.51	134.10	134.54	1.92	0.92	134.73	0.0207		1.78	2.66	0.79	0.30
Pian Mugnone	13 PD2002 C	0.15	1.51	133.60	134.20	1.41	0.58	134.30	0.0086		1.78	2.98	1.07	0.36
Pian Mugnone	12.8	0.10	1.51	133.60	134.20	1.41	0.58	134.30	0.0087		1.78	2.98	1.07	0.36
Pian Mugnone	12 PD2002 D	0.80	1.51	131.85	133.50	0.32	0.10	133.50	0.0002		3.09	6.37	5.09	0.80
Pian Mugnone	11 PD2002 E	0.25	1.51	131.85	133.50	0.32	0.10	133.50	0.0002		3.09	6.37	5.09	0.80
Pian Mugnone	10 PD2002 F	50.36	1.51	131.80	133.49	0.54	0.17	133.50	0.0008		2.44	5.30	3.25	0.61
Pian Mugnone	9 PD2002 G	1.50	1.51	130.65	131.28	2.86	1.65	131.69	0.0697	0.07	1.64	2.21	0.53	0.24
Pian Mugnone	8 PD1002 H	1.97	1.51	130.60	131.17	1.82	1.12	131.32	0.0243	0.05	2.68	3.00	0.86	0.29
Pian Mugnone	7 PD2003 A	5.11	1.26	129.77	131.08	0.55	0.26	131.09	0.0012	0.01	4.38	5.70	2.86	0.50
Pian Mugnone	6 PD2003 B	12.49	1.26	129.76	131.05	0.93	0.37	131.08	0.0033		1.88	3.42	1.57	0.46
Pian Mugnone	5 PD2003 C	1.50	1.26	129.13	130.04	1.71	0.67	130.19	0.0150	0.01	1.12	2.32	0.73	0.32
Pian Mugnone	4 PD2003 D	0.95	1.26	129.00	130.05	0.53	0.19	130.07	0.0007		2.83	4.07	2.36	0.58
Pian Mugnone	3 PD2004 A	1.50	0.55	128.96	130.07	0.26	0.09	130.07	0.0002		2.37	3.84	2.20	0.57
Pian Mugnone	2 PD2004 B	5.65	0.55	128.67	130.06	0.43	0.15	130.07	0.0009		1.44	3.87	1.33	0.34
Pian Mugnone	1 PD2004 C	8.77	0.55	128.43	128.93	2.81	1.39	129.33	0.1018	0.45	0.47	1.23	0.20	0.16
Pian Mugnone	0.75	1.00	0.44	126.05	128.40	0.01		128.40			22.62	23.41	30.57	1.31
Pian Mugnone	0.5		0.44	126.03	128.40	0.01		128.40			22.62	23.42	30.63	1.31
Margherita	10 MS1001	4.61	8.13	184.09	184.79	3.84	1.84	185.54	0.0522	0.24	4.75	5.01	2.12	0.42
Margherita	9 MS2002 A	1.00	8.12	182.24	183.37	1.85	0.60	183.54	0.0059		4.51	6.07	4.38	0.72
Margherita	8 MS2002 B	2.51	8.12	179.99	181.30	1.74	0.49	181.45	0.0049	0.01	3.59	6.17	4.67	0.76
Margherita	7 MS2002 C	1.00	8.12	180.09	181.25	1.95	0.58	181.44	0.0067	0.01	3.59	5.90	4.16	0.71
Margherita	6 MS2002 D	0.10	8.12	180.07	181.21	2.99	0.90	181.66	0.0203		2.40	4.66	2.72	0.58
Margherita	5 MS2002 E	1.23	8.12	179.64	180.50	3.95	1.36	181.30	0.0435	0.05	2.39	4.10	2.06	0.50
Margherita	4 MS2002 F	4.77	8.12	179.64	180.40	3.24	1.31	180.94	0.0334	0.16	3.98	5.48	2.50	0.46
Margherita	3 MS2003	4.78	8.12	178.21	179.13	3.62	1.48	179.80	0.0404	0.19	3.69	4.83	2.24	0.46
Margherita	2 MS2005	4.78	8.12	176.37	177.41	2.36	1.12	177.70	0.0205	0.32	5.45	6.37	3.44	0.54
Margherita	1 MS2006	9.76	8.12	176.20	176.94	5.97	2.41	178.76	0.1183	0.58	2.17	3.09	1.36	0.44
Margherita	0.7	0.50	0.52	172.30	176.00	0.01		176.00			18.32	22.94	57.39	2.50
Margherita	0.5		0.50	172.29	176.00	0.01		176.00			18.32	22.95	57.53	2.51

Studio idrologico e idraulico di supporto alla variante del Piano Strutturale del Comune di Fiesole

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Capannucce	9 FG001	31.47	5.28	198.04	198.63	4.78	2.47	199.80	0.1081	3.25	2.89	3.28	1.10	0.34
Capannucce	8 FG002	26.88	5.28	194.92	195.41	4.63	2.42	196.50	0.1215	1.73	2.58	3.23	1.14	0.35
Capannucce	7 FG003	5.34	5.27	192.60	193.75	1.85	0.60	193.93	0.0070		2.90	4.51	2.85	0.63
Capannucce	6 FG004	24.04	5.27	191.52	192.22	3.33	1.42	192.78	0.0401	0.90	2.51	3.51	1.58	0.45
Capannucce	5 FG005	22.20	5.27	190.61	191.53	2.68	1.34	191.83	0.0365	0.53	2.66	3.99	2.17	0.54
Capannucce	4 FG006	16.98	5.50	189.82	191.27	1.76	0.74	191.39	0.0113	0.13	2.79	5.08	3.54	0.70
Capannucce	3 FG007_A	1.33	4.89	189.44	191.27	1.24	0.44	191.33	0.0040	0.01	2.90	5.96	4.66	0.78
Capannucce	2 FG007_B	4.59	4.89	189.40	191.28	1.21	0.46	191.32	0.0040		4.54	6.87	5.66	0.82
Capannucce	1 FG007_C	6.68	4.89	189.10	189.46	6.54	4.02	191.64	0.3677	1.23	2.15	2.75	0.75	0.27
Capannucce	0.5	2.00	4.82	186.52	187.92	0.82	0.29	187.95	0.0012	0.06	7.37	8.11	5.90	0.73
Mugnoncello 01	56 MU001	3.79	50.59	192.36	197.90	1.16	0.22	197.97	0.0006		10.21	17.75	44.40	2.50
Mugnoncello 01	55 MU002_A	1.18	41.61	192.26	197.94	0.60	0.12	197.95	0.0002		22.89	29.40	89.23	3.03
Mugnoncello 01	54 MU002_B	3.58	41.61	192.39	197.88	1.43	0.25	197.96	0.0011		6.61	15.83	32.90	2.08
Mugnoncello 01	53 MU002_C	1.19	41.61	192.21	193.91	4.81	1.26	195.09	0.0229	0.03	5.81	7.97	8.66	1.09
Mugnoncello 01	52 MU002_D	16.69	41.61	192.04	193.79	4.16	1.51	194.68	0.0335	0.91	12.94	15.14	9.99	0.66
Mugnoncello 01	51 MU003	24.34	44.27	191.24	192.85	5.43	2.19	194.35	0.0783	1.19	12.68	14.70	8.15	0.55
Mugnoncello 01	50 MU004	28.69	45.56	190.08	191.57	4.73	1.41	192.71	0.0243	1.37	8.44	9.47	9.63	1.02
Mugnoncello 01	49 MU005	11.48	48.90	188.55	190.13	6.35	2.30	192.19	0.0758	0.66	9.66	10.68	7.70	0.72
Mugnoncello 01	48 MU006	25.92	48.94	187.90	189.28	4.80	1.70	190.45	0.0387	0.99	11.51	12.40	10.20	0.82
Mugnoncello 01	47 MU007	8.43	50.48	186.52	188.29	5.73	1.77	189.97	0.0391	0.39	8.27	9.29	8.81	0.95
Mugnoncello 01	46.3	2.00	50.47	186.20	187.92	6.07	2.02	189.78	0.0544	0.12	8.15	9.12	8.38	0.92
Mugnoncello 02	46.2	12.31	55.29	186.20	187.92	6.60	2.17	190.14	0.0626	0.61	8.15	9.12	8.38	0.92
Mugnoncello 02	46 MU008	28.37	55.29	185.48	187.21	5.66	1.70	188.84	0.0366	0.89	8.39	9.36	9.78	1.04
Mugnoncello 02	45 MU009	20.94	55.62	184.11	186.31	5.30	1.44	187.74	0.0258	0.41	7.56	9.04	10.49	1.16
Mugnoncello 02	44 MU010	30.73	55.65	183.45	185.73	4.15	1.07	186.61	0.0134	0.54	8.78	10.28	13.43	1.31
Mugnoncello 02	43 MU2011	23.86	55.65	183.38	185.16	4.85	1.28	186.35	0.0219	0.90	7.86	10.08	11.48	1.14
Mugnoncello 02	42 MU2012	27.16	55.65	182.83	184.26	5.85	2.03	186.00	0.0605	1.12	9.78	11.53	9.52	0.83
Mugnoncello 02	41 MU2013	23.69	55.64	180.99	183.10	4.06	1.24	183.94	0.0220	0.53	9.66	12.38	13.71	1.11
Mugnoncello 02	40 MU2014	15.54	55.64	180.01	182.61	4.97	1.19	183.87	0.0228	0.38	6.23	9.59	11.18	1.17
Mugnoncello 02	39 MU2015	15.21	55.64	180.06	182.26	5.04	1.31	183.55	0.0262	0.31	6.25	9.26	11.05	1.19
Mugnoncello 02	38 MU2016_A	2.02	55.64	179.42	181.86	4.32	0.94	182.81	0.0162	0.03	5.92	10.70	12.88	1.20
Mugnoncello 02	37 MU2016_B	0.01	55.64	179.42	181.82	4.44	0.92	182.83	0.0162		5.21	10.01	12.52	1.25
Mugnoncello 02	36 MU2016_C	2.12	55.64	179.15	181.04	5.66	1.32	182.67	0.0315	0.07	5.21	8.98	9.83	1.10
Mugnoncello 02	35 MU2016_D	5.63	55.64	179.15	180.95	5.93	1.42	182.74	0.0357	0.18	5.22	8.80	9.39	1.07
Mugnoncello 02	34 MU2017	30.63	55.64	178.64	180.70	5.48	1.47	182.23	0.0275	0.83	7.15	8.74	10.16	1.16
Mugnoncello 02	33 MU2018	4.67	55.64	177.85	179.87	5.51	1.43	181.42	0.0268	0.13	6.64	8.51	10.09	1.19
Mugnoncello 02	32 MU2019	4.83	55.63	176.04	177.64	6.17	1.90	179.58	0.0459	0.22	8.36	9.40	9.01	0.96
Mugnoncello 02	31 MU2020	4.80	55.41	173.85	175.89	5.32	1.51	177.32	0.0287	0.15	8.05	9.37	10.48	1.12
Mugnoncello 02	30 MU2021	4.84	61.75	171.25	173.19	5.10	1.50	174.51	0.0290	0.13	9.58	10.99	12.11	1.10
Mugnoncello 02	29 MU2022_A	1.16	61.74	169.92	172.27	2.63	0.61	172.62	0.0046		12.22	15.51	23.50	1.52
Mugnoncello 02	28 MU2022_B	4.68	61.74	169.35	171.27	4.22	1.16	172.18	0.0190	0.09	10.91	14.19	14.63	1.03
Mugnoncello 02	27 MU1023	4.66	61.72	168.57	170.34	4.22	1.14	171.25	0.0146	0.07	10.43	11.64	14.61	1.26
Mugnoncello 02	26 MU1024	46.69	61.72	167.55	169.17	5.81	1.81	170.89	0.0386	1.65	10.15	10.84	10.62	0.98
Mugnoncello 02	25 MU1025	34.07	61.71	165.75	167.55	5.00	1.61	168.82	0.0322	0.75	10.66	11.52	12.35	1.07
Mugnoncello 02	24 MU1026_A	2.03	61.70	164.70	166.78	3.69	1.00	167.47	0.0119	0.02	10.12	11.90	16.74	1.41
Mugnoncello 02	23 MU2026_B	0.10	61.70	164.64	166.76	3.75	0.94	167.48	0.0123		9.66	13.07	16.44	1.26
Mugnoncello 02	22 MU2026_C	2.03	61.70	164.61	166.29	4.91	1.27	167.52	0.0225	0.04	8.20	11.03	12.57	1.14
Mugnoncello 02	21 MU1026_D	45.00	61.70	164.45	166.19	4.52	1.22	167.24	0.0171	0.88	9.76	11.04	13.65	1.24
Mugnoncello 02	20 MU1027	22.32	61.68	163.77	165.33	4.27	1.40	166.25	0.0239	0.47	13.74	14.35	14.46	1.01
Mugnoncello 02	19 MU1028	33.36	61.66	163.20	164.85	3.76	1.24	165.56	0.0184	0.54	17.06	17.69	16.56	0.95
Mugnoncello 02	18 MU1029	16.20	61.64	162.46	164.37	3.18	1.09	164.87	0.0141	0.19	15.38	16.16	19.72	1.22
Mugnoncello 02	17 MU1030_A	2.13	61.63	161.94	164.23	3.41	0.93	164.82	0.0098	0.02	11.22	12.57	18.06	1.44
Mugnoncello 02	16 MU2030_B	0.10	61.63	161.92	164.16	2.90	0.69	164.59	0.0066		11.94	16.37	21.25	1.37
Mugnoncello 02	15 MU2030_C	0.28	61.63	161.85	164.18	2.77	0.65	164.57	0.0058		11.95	16.61	22.25	1.34
Mugnoncello 02	14.9	1.00	61.63	161.83	164.18	2.75	0.64	164.57	0.0057		11.95	16.65	22.43	1.35
Mugnoncello 02	14.25	1.00	60.96	160.08	162.85	2.54	0.50	163.18	0.0037		9.15	14.68	23.99	1.63
Mugnoncello 02	14 MU1030_D	45.19	60.93	160.08	162.84	2.53	0.51	163.17	0.0033	1.39	9.67	13.70	24.12	1.76
Mugnoncello 02	13 MU1031	4.65	61.51	159.52	161.26	6.78	2.17	163.61	0.0590	0.29	9.01	9.86	9.07	0.92
Mugnoncello 02	12 MU1032	42.02	65.02	155.71	157.73	5.34	1.74	159.13	0.0373	1.06	10.38	11.32	12.41	1.10
Mugnoncello 02	11 MU1033	31.02	64.90	153.66	156.77	3.78	1.05	157.39	0.0133	0.23	10.83	12.67	18.55	1.46
Mugnoncello 02	10 MU1034	36.50	64.85	152.97	156.47	1.62	0.39	156.61	0.0015	0.20	17.97	19.70	40.37	2.05
Mugnoncello 02	9 MU2035_A	1.06	64.84	152.52	155.94	3.78	0.65	156.67	0.0097	0.01	5.03	11.84	17.16	1.45
Mugnoncello 02	8 MU2035_B	0.30	64.84	152.52	155.93	3.79	0.66	156.66	0.0098		5.03	11.81	17.09	1.45
Mugnoncello 02	7 MU2035_C	1.02	64.82	152.62	154.60	6.54	1.52	156.78	0.0414	0.06	5.02	8.96	9.92	1.11
Mugnoncello 02	6 MU2035_D	5.90	64.81	152.62	154.43	8.04	2.03	157.73	0.0756	0.34	4.46	8.06	8.06	1.00
Mugnoncello 02	5 MU1036_A	1.00	64.70	151.92	153.65	5.78	1.82	155.35	0.0412	0.03	9.14	10.12	11.19	1.11
Mugnoncello 02	4 MU1036_B	11.81	64.57	151.53	153.46	4.79	1.42	154.63	0.0245	0.20	10.18	11.34	13.48	1.19
Mugnoncello 02	3 MU1037	30.04	64.30	150.88	153.14	3.54	0.93	153.77	0.0098	0.24	12.35	13.43	18.30	1.36
Mugnoncello 02	2 MU1038	30.76	63.30	150.37	152.88	3.02	0.77	153.31	0.0062	0.11	13.70	14.81	21.50	1.45
Mugnoncello 02	1 MU1039	12.59	61.72	149.09	152.78	1.37	0.28	152.86	0.0008	0.01	19.49	22.39	47.45	2.12
Mugnoncello 02	0.5 MU1038	1.00	61.95	148.62	152.80	0.99	0.19	152.84	0.0003		21.92	25.82	65.02	2.52
Mugnone 01	242 MG2001	47.92	92.23	195.00	196.21	4.25	1.30	197.14	0.0206	1.06	19.73	21.59	21.69	1.00
Mugnone 01	241 MG1002	33.35	92.21	193.32	195.15	5.08	1.46	196.47	0.0235	0.63	14.62	15.29	18.16	1.19
Mugnone 01	240 MG1003	12.74	94.04	192.12	194.45	4.56	1.17	195.51	0.0149	0.29	13.23	14.86	20.63	1.39
Mugnone 01	239.5	6.42	94.04	192.12	194.08	5.88	1.65	195.85	0.0313	0.18	12.31	13.68	15.98	1.17
Mugnone 01	239 MG1004	27.47	110.04	192.10	193.84	5.50	1.53	195.38	0.0257	0.81	15.23	16.35	20.00	1.22
Mugnone 01	238 MG1005	28.68	110.04	191.37	193.01	5.80	1.76	194.72	0.0350	0.85	16.77	17.38	18.98	1.09
Mugnone 01	237 MG1006	30.07	110.03	190.03	192.15	5.61	1.52	193.75	0.0245	0.65	14.05			

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 01	236 MG1007	25.69	110.03	189.40	191.40	5.00	1.35	192.67	0.0190	0.47	15.75	16.53	22.00	1.33
Mugnone 01	235 MG1008	34.95	110.02	188.69	190.90	4.82	1.30	192.08	0.0175	0.53	16.35	17.12	22.84	1.33
Mugnone 01	234 MG1009	31.67	110.02	187.70	190.28	4.19	1.12	191.18	0.0129	0.90	18.49	19.28	26.23	1.36
Mugnone 01	233 MG1010	26.68	110.01	187.01	189.29	6.06	1.94	191.16	0.0437	1.34	18.23	19.09	18.14	0.95
Mugnone 01	232 MG1011	26.61	110.01	186.03	187.88	7.19	2.24	190.51	0.0572	1.06	14.54	15.06	15.31	1.02
Mugnone 01	231 MG1012	26.08	110.00	184.52	186.32	4.25	1.41	187.24	0.0228	0.59	27.82	28.30	25.86	0.91
Mugnone 01	230 MG1013	28.58	109.99	184.09	185.73	4.18	1.37	186.62	0.0226	0.66	27.43	28.25	26.33	0.93
Mugnone 01	229 MG1014	35.32	109.99	183.41	185.12	4.68	1.45	186.24	0.0236	0.56	19.83	20.33	23.51	1.16
Mugnone 01	228 MG1015	34.11	109.99	182.01	184.47	3.30	0.88	185.02	0.0079	0.24	22.23	23.03	33.34	1.45
Mugnone 01	227 MG1016	30.32	111.62	181.25	184.23	3.29	0.80	184.79	0.0063	0.15	19.58	20.73	33.92	1.64
Mugnone 01	226 MG1017	25.69	112.70	180.75	184.03	2.68	0.61	184.40	0.0036		21.69	23.11	42.09	1.82
Mugnone 01	225 MG1018	15.62	112.70	177.42	179.87	3.90	0.83	180.65	0.0080	0.22	12.76	16.62	28.93	1.74
Mugnone 01	224 MG1019	6.00	112.70	178.02	179.63	4.48	1.37	180.65	0.0204	0.21	23.08	23.60	25.18	1.07
Mugnone 01	223.4	17.09	112.69	178.02	179.35	5.96	2.06	181.16	0.0516	0.69	21.15	21.55	18.90	0.88
Mugnone 01	223 MG1020	17.21	135.89	177.12	178.55	4.89	1.58	179.78	0.0290	0.38	25.79	26.37	27.76	1.05
Mugnone 01	222 MG1021	16.85	135.88	176.14	178.12	4.18	1.20	179.01	0.0156	0.18	25.56	26.01	32.49	1.25
Mugnone 01	221 MG1022	24.21	135.87	175.10	177.81	2.94	0.75	178.25	0.0056	0.34	29.85	30.91	46.20	1.49
Mugnone 01	220 MG1023	20.87	135.86	174.86	177.43	4.50	1.37	178.46	0.0224	0.34	26.37	28.84	30.18	1.05
Mugnone 01	219 MG1024	23.04	135.86	174.22	177.00	3.64	0.96	177.67	0.0104	0.29	25.24	28.11	37.35	1.33
Mugnone 01	218 MG1025	20.24	136.53	173.94	176.70	4.12	1.12	177.56	0.0148	0.32	23.53	26.34	33.17	1.26
Mugnone 01	217 MG1026	24.28	136.52	173.55	176.36	4.60	1.25	177.44	0.0177	0.45	21.61	23.93	29.66	1.24
Mugnone 01	216 MG1027	23.69	136.52	173.25	175.90	4.84	1.36	177.09	0.0205	0.44	21.30	22.60	28.18	1.25
Mugnone 01	215 MG1028	18.37	136.52	172.84	175.44	4.42	1.23	176.44	0.0163	0.29	21.07	22.17	30.86	1.39
Mugnone 01	214 MG1029	14.99	136.50	172.28	175.18	4.64	1.20	176.28	0.0157	0.17	17.59	19.23	29.45	1.53
Mugnone 01	213.7	1.00	136.49	172.29	174.90	3.61	0.81	175.57	0.0070	0.01	17.59	20.61	37.76	1.83
Mugnone 01	213.4	1.00	148.41	172.29	174.88	3.97	0.88	175.68	0.0083	0.01	17.57	20.57	37.40	1.82
Mugnone 01	213 MG2030 A	2.62	148.41	172.28	174.87	3.97	0.88	175.68	0.0083	0.03	17.56	20.56	37.40	1.82
Mugnone 01	212 MG2030 B	0.10	148.41	172.25	174.81	4.71	1.00	175.94	0.0116		13.96	17.98	31.52	1.75
Mugnone 01	211.5	1.00	148.41	170.59	172.00	7.56	2.22	174.91	0.0632	0.05	13.95	16.76	19.64	1.17
Mugnone 01	210.9 MG2030 C	1.76	148.41	170.10	171.73	6.52	1.72	173.90	0.0370	0.05	13.95	17.21	22.77	1.32
Mugnone 01	210 MG2030 D	24.00	148.41	169.20	171.53	5.64	1.31	173.15	0.0178	0.47	13.84	15.77	26.31	1.67
Mugnone 01	209 MG1031	20.92	148.40	168.80	171.04	5.36	1.40	172.51	0.0210	0.46	16.78	18.30	27.67	1.51
Mugnone 01	208 MG1032	21.97	148.40	167.94	170.53	6.36	1.51	172.60	0.0246	0.47	12.84	14.86	23.34	1.57
Mugnone 01	207 MG1033	26.57	148.40	167.53	169.90	5.45	1.35	171.41	0.0183	0.48	16.41	17.51	27.23	1.55
Mugnone 01	206 MG1034	26.99	148.39	167.04	169.30	4.66	1.30	170.41	0.0180	0.43	24.05	25.17	31.82	1.26
Mugnone 01	205 MG1035	26.05	148.38	166.51	168.78	3.87	1.13	169.55	0.0143	0.32	30.10	31.33	38.39	1.23
Mugnone 01	204 MG1036	30.90	148.37	166.12	168.46	3.53	0.98	169.10	0.0102	0.30	29.96	30.65	42.07	1.37
Mugnone 01	203 MG1037	27.00	148.36	165.47	168.16	3.44	0.99	168.76	0.0103	0.26	34.48	35.11	43.08	1.23
Mugnone 01	202 MG1038	36.04	150.55	165.07	167.89	3.32	0.92	168.46	0.0090	0.25	33.94	34.87	45.31	1.30
Mugnone 01	201 MG1039	40.99	150.52	164.82	167.58	2.54	0.69	167.91	0.0050	0.19	42.78	43.96	59.18	1.35
Mugnone 01	200 MG2040 A	2.00	150.51	164.91	167.41	2.37	0.63	167.70	0.0042		42.98	44.25	63.58	1.44
Mugnone 01	199 MG2040 B	40.51	150.51	162.85	164.95	5.73	1.27	166.62	0.0197	0.92	12.65	16.59	26.28	1.58
Mugnone 01	198 MG1041	4.78	150.50	161.43	163.95	5.30	1.55	165.39	0.0259	0.12	23.86	24.70	28.39	1.15
Mugnone 01	197 MG2042 A	2.01	150.49	160.35	162.93	2.35	0.63	163.22	0.0042		42.20	44.69	64.06	1.43
Mugnone 01	196 MG2042 B	4.18	150.34	159.67	162.68	2.56	0.72	163.02	0.0059	0.03	41.38	44.81	58.72	1.31
Mugnone 01	195 MG1043	4.97	150.30	159.54	162.55	2.60	0.80	162.87	0.0071	0.04	51.40	52.36	60.24	1.15
Mugnone 01	194 MG2044 A	2.01	150.24	159.71	162.46	2.24	0.64	162.70	0.0046		42.72	45.85	68.92	1.50
Mugnone 01	193 MG2044 B	4.83	150.23	158.89	162.37	2.46	0.73	162.58	0.0064	0.03	42.42	47.01	72.58	1.54
Mugnone 01	192 MG2045 A	2.00	144.24	157.95	161.98	3.41	0.65	162.58	0.0047		13.97	18.99	42.35	2.23
Mugnone 01	191 MG2045 B	4.83	144.23	157.04	159.91	6.07	1.30	161.79	0.0218	0.10	10.20	13.96	23.74	1.70
Mugnone 01	190 MG2046 A	2.00	149.84	156.09	159.09	3.47	0.68	159.70	0.0047	0.01	16.18	19.58	43.13	2.20
Mugnone 01	189 MG2046 B	0.10	149.84	156.07	159.08	3.45	0.67	159.68	0.0046		16.30	19.67	43.48	2.21
Mugnone 01	188 MG2046 C	2.04	149.84	156.05	158.87	3.71	0.75	159.57	0.0059	0.01	16.05	19.21	40.38	2.10
Mugnone 01	187 MG2046 D	21.53	149.84	156.04	158.84	3.05	0.58	159.32	0.0038		17.51	23.11	49.10	2.12
Mugnone 01	186 MG1047	22.31	149.84	150.88	154.19	4.58	1.07	155.26	0.0123	0.22	17.42	20.09	32.69	1.63
Mugnone 01	185 MG1048	24.37	149.84	150.47	153.91	4.17	0.89	154.80	0.0077	0.19	15.91	17.85	35.96	2.01
Mugnone 01	184 MG1049	24.15	150.64	150.07	153.71	4.06	0.90	154.55	0.0083	0.22	17.08	19.28	37.12	1.93
Mugnone 01	183 MG1050	29.30	150.63	150.10	153.49	4.48	0.98	154.51	0.0097	0.24	15.28	17.32	33.65	1.94
Mugnone 01	182 MG1051	24.27	150.63	149.78	153.21	4.09	0.84	154.06	0.0070	0.16	15.25	17.43	36.87	2.11
Mugnone 01	181 MG1052	21.78	150.61	149.69	153.00	3.67	0.82	153.69	0.0065	0.13	18.76	20.37	41.08	2.02
Mugnone 01	180 MG1053	18.00	150.60	149.45	152.87	3.48	0.75	153.49	0.0054	0.08	18.83	20.56	43.31	2.11
Mugnone 01	179 MG1054	13.82	150.51	149.18	152.79	3.15	0.65	153.29	0.0040	0.05	19.42	21.43	47.83	2.23
Mugnone 01	178 MG1055	12.04	150.42	148.88	152.80	2.49	0.54	153.12	0.0028	0.04	26.22	28.77	60.33	2.10
Mugnone 02	177.4	13.56	211.82	148.62	152.80	3.26	0.60	153.34	0.0034	0.05	21.92	25.82	65.02	2.52
Mugnone 02	177.2	1.00	210.84	148.57	152.74	3.30	0.62	153.30	0.0036		21.92	25.71	63.92	2.49
Mugnone 02	177.1	1.75	210.86	148.56	152.74	3.30	0.62	153.30	0.0036	0.01	21.92	25.70	63.83	2.48
Mugnone 02	177 MG1056	21.94	222.34	148.55	152.64	3.60	0.69	153.30	0.0044	0.10	21.92	25.51	61.75	2.42
Mugnone 02	176 MG1057	22.18	223.30	148.92	152.53	3.70	0.75	153.22	0.0050	0.11	24.40	26.21	60.41	2.30
Mugnone 02	175 MG1058	22.21	223.30	148.52	152.42	3.60	0.73	153.08	0.0047	0.08	24.86	26.70	62.04	2.32
Mugnone 02	174 MG1059	18.28	217.24	148.23	152.35	2.70	0.50	152.72	0.0022	0.05	27.30	30.63	80.44	2.63
Mugnone 02	173 MG2060 A	19.30	205.68	148.22	152.25	3.08	0.63	152.73	0.0037		25.81	29.05	66.79	2.30
Mugnone 02	171 MG1061	4.62	205.68	144.04	147.27	5.55	1.25	148.84	0.0150	0.07	18.31	19.98	37.03	1.85
Mugnone 02	170 MG1062	4.64	208.04	143.52	146.84	6.00	1.44	148.67	0.0213	0.10	18.78	20.37	34.69	1.70
Mugnone 02	169 MG1063	4.10	208.89	142.86	146.43	5.75	1.41	148.12	0.0212	0.08	20.94	22.75	36.35	1.60
Mugnone 02	168 MG1064	4.80	210.23	142.63	146.03	5.19	1.16	147.40	0.0133	0.07	19.93	21.63	40.54	1.87
Mugnone 02	167 MG1065	4.56	211.62	142.35	145.73	5.64	1.30	147.35	0.0175	0.08	18.72	20.80	37.53	1.80
Mugnone 02	166 MG1066	4.37	216.44	142.04	145.43	5.42	1.20							

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	164 MG1068	4.44	225.28	141.48	144.52	6.36	1.36	146.58	0.0182	0.08	15.85	17.98	35.40	1.97
Mugnone 02	163 MG1069	21.53	225.90	140.96	144.06	6.16	1.39	145.99	0.0185	0.38	18.31	19.76	36.66	1.86
Mugnone 02	162 MG1070	20.19	225.90	140.75	143.62	5.85	1.33	145.36	0.0170	0.33	19.54	21.14	38.64	1.83
Mugnone 02	161 MG1071	20.28	225.90	140.51	143.23	5.55	1.30	144.81	0.0160	0.39	21.71	22.99	40.67	1.77
Mugnone 02	160 MG1072	18.31	225.90	140.18	142.81	6.04	1.50	144.68	0.0234	0.40	22.69	24.05	37.38	1.55
Mugnone 02	159 MG1073	19.04	225.90	139.80	142.41	5.96	1.42	144.23	0.0201	0.38	21.19	22.65	37.87	1.67
Mugnone 02	158 MG1074	18.52	225.90	139.56	141.99	5.69	1.39	143.64	0.0194	0.34	23.26	24.53	39.71	1.62
Mugnone 02	157 MG1075	18.02	225.89	139.00	141.62	5.44	1.33	143.12	0.0176	0.33	24.22	25.46	41.55	1.63
Mugnone 02	156 MG1076	20.45	227.59	138.61	141.29	5.34	1.34	142.75	0.0187	0.36	25.91	27.16	42.61	1.57
Mugnone 02	155 MG1077	21.68	227.58	138.23	140.91	5.02	1.27	142.19	0.0163	0.31	27.46	28.39	45.37	1.60
Mugnone 02	154 MG1078	22.22	227.57	137.74	140.56	4.63	1.12	141.66	0.0122	0.29	27.94	28.85	49.10	1.70
Mugnone 02	153 MG1079	24.48	227.57	137.61	140.26	5.09	1.20	141.58	0.0136	0.36	24.45	25.54	44.70	1.75
Mugnone 02	152 MG1080	19.50	227.56	136.92	139.91	5.16	1.26	141.27	0.0159	0.31	24.58	25.67	44.06	1.72
Mugnone 02	151 MG1081	21.47	227.56	136.58	139.62	5.35	1.26	141.08	0.0157	0.32	23.00	24.25	42.51	1.75
Mugnone 02	150 MG1082	22.46	227.56	136.27	139.27	5.11	1.20	140.60	0.0143	0.30	23.46	24.81	44.57	1.80
Mugnone 02	149 MG1083	18.43	227.56	135.86	138.96	4.87	1.12	140.17	0.0124	0.22	23.49	24.88	46.72	1.88
Mugnone 02	148 MG1084	20.84	227.56	135.52	138.73	4.72	1.10	139.87	0.0118	0.23	24.54	25.87	48.23	1.86
Mugnone 02	147 MG1085	19.17	227.55	135.17	138.49	4.44	1.02	139.50	0.0100	0.20	25.36	26.66	51.20	1.92
Mugnone 02	146 MG1086	18.81	227.54	134.83	138.30	4.60	1.04	139.38	0.0105	0.22	24.16	25.79	49.52	1.92
Mugnone 02	145 MG1087	17.60	227.52	134.61	138.07	5.07	1.14	139.38	0.0129	0.22	21.98	23.52	44.91	1.91
Mugnone 02	144 MG1088	17.01	227.47	134.44	137.80	4.55	1.11	138.86	0.0121	0.18	25.95	27.30	49.98	1.83
Mugnone 02	143.6	1.50	227.38	133.99	137.60	4.16	0.96	138.48	0.0091	0.01	25.45	27.24	54.62	2.01
Mugnone 02	143.4	2.13	227.40	133.99	137.58	4.19	0.98	138.48	0.0093	0.02	25.42	27.19	54.30	2.00
Mugnone 02	143 MG1089	20.45	249.21	133.99	137.54	4.68	1.09	138.66	0.0118	0.23	25.31	27.06	53.27	1.97
Mugnone 02	142 MG1090	15.24	249.21	133.83	137.31	5.01	1.12	138.59	0.0119	0.15	24.06	25.88	49.74	1.98
Mugnone 02	141 MG1091 A	4.50	249.21	133.71	137.15	5.12	1.00	138.49	0.0088	0.02	21.28	18.78	51.36	2.59
Mugnone 02	138 MG1091 D	14.42	249.21	133.35	136.11	6.68	1.49	138.38	0.0202	0.30	20.16	18.88	38.14	1.98
Mugnone 02	137 MG1092	20.04	249.21	133.43	135.67	5.97	1.49	137.49	0.0213	0.35	25.43	26.23	41.71	1.59
Mugnone 02	136 MG1093	19.79	249.21	133.09	135.06	4.31	1.16	136.01	0.0136	0.27	41.04	41.75	57.84	1.39
Mugnone 02	135 MG1094	19.27	249.20	132.54	134.79	4.25	1.15	135.71	0.0139	0.22	42.44	43.14	58.69	1.36
Mugnone 02	134 MG1095	20.82	249.20	132.45	134.50	3.61	0.95	135.17	0.0087	0.20	46.39	47.07	69.00	1.47
Mugnone 02	133 MG1096	22.66	249.20	132.13	134.29	3.98	1.06	135.09	0.0109	0.31	43.24	43.94	62.66	1.43
Mugnone 02	132 MG1097	23.41	248.19	131.88	133.97	4.38	1.25	134.95	0.0169	0.32	42.78	43.39	56.64	1.31
Mugnone 02	131 MG1098	17.69	248.06	131.18	133.65	4.17	1.03	134.54	0.0102	0.19	35.79	36.56	59.45	1.63
Mugnone 02	130 MG1099	21.41	247.88	130.84	133.46	4.39	1.08	134.44	0.0112	0.29	33.26	34.40	56.48	1.64
Mugnone 02	129 MG1100	15.22	247.65	131.01	133.20	4.40	1.25	134.19	0.0164	0.21	37.69	38.46	56.26	1.46
Mugnone 02	128 MG1101	20.29	248.69	130.42	132.97	3.88	1.02	133.74	0.0107	0.20	37.84	38.89	64.12	1.65
Mugnone 02	127 MG1102	20.40	248.65	130.36	132.79	3.68	0.97	133.48	0.0094	0.19	38.15	39.34	67.62	1.72
Mugnone 02	126 MG1103	22.82	248.35	130.17	132.63	3.58	0.97	133.29	0.0094	0.18	38.64	39.57	69.40	1.75
Mugnone 02	125 MG1104	20.24	247.89	129.54	132.46	3.19	0.80	132.98	0.0063	0.12	38.60	39.93	77.85	1.95
Mugnone 02	124 MG1105	19.35	246.52	129.39	132.35	3.28	0.80	132.90	0.0060	0.11	35.89	37.08	75.47	2.04
Mugnone 02	123 MG1106	20.63	246.45	129.03	132.28	3.13	0.74	132.77	0.0051	0.09	34.98	36.24	79.14	2.18
Mugnone 02	122 MG1107	20.38	266.37	128.58	132.19	2.88	0.60	132.61	0.0032	0.06	35.49	37.19	92.39	2.48
Mugnone 02	121 MG1108	21.34	265.82	128.24	132.15	2.73	0.55	132.53	0.0026	0.06	36.62	38.43	97.25	2.53
Mugnone 02	120 MG1109	18.85	265.64	128.41	132.05	2.92	0.61	132.48	0.0033	0.05	35.10	36.82	90.91	2.47
Mugnone 02	119 MG1110	19.14	264.75	127.72	132.06	2.45	0.48	132.36	0.0019	0.03	39.91	41.67	108.04	2.59
Mugnone 02	118 MG1111	25.53	263.65	127.58	132.04	2.29	0.44	132.31	0.0017	0.05	41.18	43.19	115.11	2.67
Mugnone 02	117 MG1112	17.64	263.41	127.71	132.00	2.28	0.48	132.26	0.0020	0.03	43.92	45.56	115.53	2.54
Mugnone 02	116 MG1113	21.25	262.26	127.27	132.00	2.08	0.40	132.22	0.0014	0.03	43.35	45.29	126.22	2.79
Mugnone 02	115 MG1114	17.66	262.93	126.92	131.97	2.11	0.39	132.19	0.0013	0.03	40.63	42.74	124.81	2.92
Mugnone 02	114 MG1115	15.12	261.91	127.00	131.85	2.50	0.50	132.17	0.0022	0.04	37.09	39.23	104.81	2.67
Mugnone 02	113 MG1116	17.48	260.38	127.07	131.78	2.72	0.56	132.14	0.0028	0.05	35.15	37.44	96.98	2.59
Mugnone 02	112 MG1117	17.08	258.38	127.08	131.69	2.93	0.59	132.11	0.0031	0.05	33.64	36.18	90.45	2.52
Mugnone 02	111 MG1118	23.63	254.17	126.55	131.68	2.73	0.55	132.03	0.0027	0.05	36.66	38.86	97.53	2.51
Mugnone 02	110 MG1119	22.56	253.21	126.41	131.67	2.39	0.45	131.94	0.0017	0.03	42.06	44.77	110.99	2.74
Mugnone 02	109 MG1120 A	3.06	252.90	126.31	131.63	2.15	0.36	131.88	0.0010		30.44	35.36	117.49	3.32
Mugnone 02	108 MG2120 B	3.68	252.86	126.72	131.55	2.49	0.39	131.87	0.0012		23.83	32.25	101.44	3.15
Mugnone 02	107 MG2120 C	3.25	290.70	126.75	130.07	4.53	0.87	131.13	0.0067	0.02	23.06	28.48	64.18	2.25
Mugnone 02	106 MG1120 D	4.71	292.46	126.40	129.98	3.93	0.81	130.79	0.0053	0.03	30.14	32.36	74.37	2.30
Mugnone 02	105.5	1.00	287.28	126.00	129.94	4.00	0.82	130.76	0.0060	0.01	29.48	31.45	71.83	2.28
Mugnone 02	105.4	5.65	287.28	126.00	129.94	3.99	0.84	130.75	0.0063	0.04	30.45	32.34	71.94	2.22
Mugnone 02	105	9.30	291.19	126.00	129.90	4.14	0.86	130.77	0.0066	0.08	29.48	31.36	70.41	2.25
Mugnone 02	104	8.01	291.69	126.45	129.80	4.55	1.02	130.86	0.0097	0.07	31.63	32.98	64.06	1.94
Mugnone 02	103 MG1123	13.61	291.53	126.24	129.69	4.20	0.92	130.59	0.0075	0.09	32.35	33.86	69.42	2.05
Mugnone 02	102 MG1124	21.76	291.90	125.93	129.54	3.66	0.79	130.22	0.0055	0.10	36.08	37.85	79.67	2.14
Mugnone 02	101 MG1125	23.49	291.13	126.32	129.38	2.97	0.66	129.83	0.0039	0.09	47.79	48.95	97.91	2.00
Mugnone 02	100 MG1126	31.77	291.04	126.33	129.31	2.76	0.64	129.69	0.0038	0.15	55.79	57.01	105.54	1.85
Mugnone 02	99 MG1127	36.51	291.01	126.24	129.12	3.24	0.77	129.66	0.0054	0.16	49.50	50.54	89.94	1.78
Mugnone 02	98 MG2128 A	10.83	292.72	126.28	128.93	2.56	0.62	129.27	0.0038		63.66	64.88	114.17	1.76
Mugnone 02	97 MG2128 B	35.20	289.43	122.98	126.76	2.14	0.41	127.00	0.0015	0.10	48.91	51.00	135.13	2.65
Mugnone 02	96 MG1129	32.52	291.44	122.60	126.48	3.45	0.70	127.09	0.0045	0.16	34.34	35.87	84.56	2.36
Mugnone 02	95 MG1130	33.61	291.57	122.24	126.31	3.73	0.78	127.02	0.0056	0.21	32.82	34.32	78.15	2.28
Mugnone 02	94 MG1131	37.94	291.27	121.93	126.09	4.08	0.89	126.94	0.0073	0.24	31.80	33.31	71.32	2.14
Mugnone 02	93 MG1132	33.37	289.98	121.49	125.81	3.46	0.78	126.42	0.0057	0.26	36.84	38.81	83.71	2.16
Mugnone 02	92 MG1133	26.63	289.72	121.03	125.50	5.08	1.02	126.81	0.0098	0.27	22.24	24.83	57.09	2.30
Mugnone 02	91 MG1134	27.59	290.01	120.63	125.19	4.78	1.08	126.35	0.0108	0.27	30.20	32.05	60.70	1.89
Mugnone 02	90 MG1135	28.37	292.36											

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	88 MG1137	36.32	288.31	120.32	124.34	3.55	0.67	124.98	0.0039	0.23	28.00	30.55	81.24	2.66
Mugnone 02	87 MG1138	29.70	289.37	119.75	124.03	5.24	0.97	125.43	0.0087	0.25	18.66	21.62	55.27	2.56
Mugnone 02	86 MG1139	27.31	287.39	119.84	123.67	4.45	0.95	124.68	0.0083	0.22	28.95	30.49	64.64	2.12
Mugnone 02	85 MG1140	28.69	287.17	119.56	123.45	4.48	0.93	124.47	0.0080	0.19	26.94	29.48	64.16	2.18
Mugnone 02	84 MG1141	21.11	278.65	119.16	123.18	3.82	0.77	123.93	0.0054	0.11	28.22	30.51	72.88	2.39
Mugnone 02	83 MG1142	1.40	268.09	119.13	123.07	3.23	0.73	123.61	0.0050	0.01	33.86	36.36	82.87	2.28
Mugnone 02	82.7	1.01	268.12	119.13	123.07	3.24	0.74	123.60	0.0051	0.01	33.86	36.35	82.63	2.27
Mugnone 02	82.4	20.25	268.08	119.13	123.06	3.25	0.74	123.60	0.0051	0.11	33.86	36.33	82.44	2.27
Mugnone 02	82 MG1143	25.58	278.31	118.84	122.90	3.63	0.77	123.57	0.0056	0.12	29.85	32.81	76.71	2.34
Mugnone 02	81 MG1144 A	2.01	273.98	118.79	122.81	3.32	0.60	123.37	0.0035	0.01	25.69	30.69	82.56	2.69
Mugnone 02	80 MG2144 B	5.50	273.98	118.56	122.89	2.61	0.47	123.24	0.0021		31.62	38.17	104.89	2.75
Mugnone 02	79 MG2144 C	2.09	271.69	118.26	122.08	3.21	0.68	122.61	0.0046	0.01	32.32	36.63	84.74	2.31
Mugnone 02	78 MG1144 D	17.35	271.89	118.29	122.02	3.45	0.71	122.63	0.0046	0.08	29.28	32.23	78.88	2.45
Mugnone 02	77 MG1145	20.44	284.41	117.69	121.90	3.65	0.72	122.58	0.0046	0.10	29.39	31.59	78.02	2.47
Mugnone 02	76 MG1146	22.05	284.57	117.54	121.80	3.51	0.75	122.43	0.0052	0.11	35.18	36.97	81.03	2.19
Mugnone 02	75 MG1147	22.19	284.11	117.56	121.67	3.73	0.73	122.38	0.0047	0.11	28.24	30.67	76.09	2.48
Mugnone 02	74 MG1148	23.42	283.45	117.38	121.56	3.66	0.75	122.24	0.0050	0.12	31.64	33.64	77.46	2.30
Mugnone 02	73 MG1149	23.04	282.26	117.21	121.44	3.70	0.78	122.14	0.0053	0.11	31.32	33.21	76.19	2.29
Mugnone 02	72 MG1150	22.38	277.57	117.08	121.34	3.61	0.71	122.00	0.0044	0.09	26.99	29.69	76.92	2.59
Mugnone 02	71 MG1151	26.10	271.06	116.85	121.29	3.34	0.61	121.86	0.0033	0.09	25.19	28.95	81.04	2.80
Mugnone 02	70 MG1152	20.97	274.68	116.74	121.21	3.20	0.66	121.73	0.0039	0.07	32.81	35.60	86.18	2.42
Mugnone 02	69 MG1153	16.94	272.21	116.45	121.23	2.40	0.54	121.50	0.0027	0.04	48.67	51.95	119.42	2.30
Mugnone 02	68 MG1154 A	2.24	269.80	116.40	121.15	2.59	0.50	121.47	0.0021		35.34	38.26	108.05	2.82
Mugnone 02	67.8	0.75	269.79	116.40	121.15	2.59	0.50	121.47	0.0021		35.34	38.25	107.88	2.82
Mugnone 02	67 MG1154 B	4.15	283.06	116.48	120.97	3.11	0.59	121.46	0.0029	0.01	29.44	32.05	91.37	2.85
Mugnone 02	66 MG1154 C	2.93	282.57	116.42	120.99	2.95	0.60	121.42	0.0031	0.01	33.31	35.91	97.22	2.71
Mugnone 02	65 MG1154 D	16.16	280.67	116.37	121.06	2.37	0.46	121.34	0.0018	0.05	38.06	41.83	120.01	2.87
Mugnone 02	64 MG1155	16.92	267.97	116.12	120.79	3.77	0.74	121.51	0.0049	0.11	23.11	26.51	71.63	2.70
Mugnone 02	63 MG1156	12.23	274.86	115.95	120.68	4.45	0.91	121.68	0.0078	0.09	21.08	24.81	62.05	2.50
Mugnone 02	62 MG1157	16.76	279.89	115.97	120.59	4.31	0.82	121.53	0.0063	0.12	21.54	24.90	64.91	2.61
Mugnone 02	61 MG1158	13.53	288.36	115.84	120.45	4.94	0.90	121.69	0.0078	0.11	18.30	21.97	58.32	2.65
Mugnone 02	60 MG1159	12.89	296.32	115.86	120.31	5.38	0.98	121.79	0.0092	0.11	17.76	21.17	55.05	2.60
Mugnone 02	59 MG1160	15.62	302.06	115.54	120.16	5.08	0.90	121.48	0.0076	0.14	18.38	21.89	59.43	2.71
Mugnone 02	58 MG1161	18.85	304.79	116.01	119.99	5.63	1.09	121.60	0.0109	0.17	19.54	22.23	54.16	2.44
Mugnone 02	57 MG1162	19.80	304.77	115.59	119.66	4.63	0.89	120.76	0.0068	0.14	23.69	25.68	65.87	2.56
Mugnone 02	56 MG1163	21.25	304.75	115.24	119.51	4.48	0.90	120.53	0.0076	0.15	26.87	29.19	68.04	2.33
Mugnone 02	55 MG1164	25.84	304.74	115.07	119.29	3.81	0.81	120.02	0.0061	0.16	33.20	35.56	80.06	2.25
Mugnone 02	54 MG1165	23.21	304.74	114.89	119.13	4.01	0.82	119.95	0.0063	0.13	29.17	32.03	76.07	2.38
Mugnone 02	53 MG1166	21.84	304.72	114.73	119.00	3.93	0.76	119.79	0.0051	0.11	28.67	30.36	77.54	2.55
Mugnone 02	52 MG1167	23.70	304.73	114.53	118.87	4.21	0.79	119.78	0.0054	0.21	25.24	27.23	72.44	2.66
Mugnone 02	51 MG1168	22.02	304.72	114.43	118.57	6.05	1.15	120.44	0.0122	0.25	17.91	20.42	50.35	2.47
Mugnone 02	50 MG1169	19.28	306.16	114.32	118.18	5.21	1.09	119.56	0.0110	0.14	24.55	26.31	58.82	2.24
Mugnone 02	49 MG1000	9.76	306.15	113.85	117.77	3.03	0.62	118.24	0.0037		40.93	45.88	101.18	2.21
Mugnone 02	47 MG0980	49.66	305.70	106.02	112.91	1.89	0.27	113.09	0.0007	0.03	31.13	40.43	161.92	4.00
Mugnone 02	46 MG0970	52.15	303.31	106.02	112.88	1.91	0.27	113.06	0.0006	0.14	29.54	37.41	159.11	4.25
Mugnone 02	45 MG0966 A	2.00	260.18	104.96	112.44	3.83	0.56	113.11	0.0046	0.01	12.07	24.53	71.96	2.93
Mugnone 02	44 MG0966 B	0.10	260.17	104.96	112.40	3.71	0.50	113.10	0.0038		11.83	24.24	70.18	2.90
Mugnone 02	43 MG0965 C	2.00	260.17	104.96	110.89	5.11	0.81	112.14	0.0094	0.02	11.36	20.93	52.49	2.51
Mugnone 02	42 MG0965 D	28.98	260.17	104.97	110.86	5.12	0.89	112.06	0.0111	0.24	13.48	23.42	53.56	2.29
Mugnone 02	41 MG0960	42.26	286.24	104.73	110.57	4.04	0.70	111.32	0.0053	0.14	18.56	26.28	74.55	2.84
Mugnone 02	40 MG0950 A	2.29	285.91	105.32	110.61	2.29	0.40	110.88	0.0013		36.80	41.64	124.85	3.00
Mugnone 02	39 MG0950 B	4.16	285.92	105.32	110.60	2.31	0.40	110.87	0.0014		36.70	41.73	123.76	2.97
Mugnone 02	38 MG0930 C	1.12	289.06	105.32	108.92	4.48	0.91	109.78	0.0076	0.01	27.82	30.72	69.52	2.26
Mugnone 02	37 MG0930 D	72.65	287.10	104.60	108.89	4.26	0.88	109.69	0.0080	0.40	27.41	32.38	72.46	2.24
Mugnone 02	36 MG0920	79.80	288.13	103.67	108.53	2.94	0.57	108.96	0.0029	0.46	30.97	34.35	99.57	2.90
Mugnone 02	35 MG0910	133.07	299.75	102.93	108.05	5.14	0.92	109.40	0.0086	0.84	15.54	20.74	58.34	2.81
Mugnone 02	34 MG0900 A	2.44	306.95	100.31	107.14	3.78	0.59	107.87	0.0040	0.01	18.18	26.96	81.10	3.01
Mugnone 02	33 MG0890 B	0.10	306.95	100.31	107.08	3.94	0.61	107.87	0.0044		17.37	26.60	78.00	2.93
Mugnone 02	32 MG0890 C	2.14	306.95	100.31	104.47	8.66	1.74	108.29	0.0369	0.10	13.97	19.24	35.43	1.93
Mugnone 02	31 MG0880 D	104.31	306.95	100.58	104.20	10.39	2.03	109.70	0.0533	3.47	11.09	15.95	29.56	1.85
Mugnone 02	30 MG0870	40.13	306.89	95.77	99.74	6.35	1.14	101.79	0.0133	0.52	15.37	19.49	48.33	2.48
Mugnone 02	29 MG0860	18.37	306.86	95.08	99.14	5.93	1.07	100.93	0.0127	0.23	16.31	22.11	51.76	2.34
Mugnone 02	28 MG0850	28.69	306.84	95.03	98.87	5.70	1.12	100.53	0.0129	0.29	19.99	24.32	53.81	2.21
Mugnone 02	27 MG0840	8.09	303.94	94.42	98.35	4.08	0.90	99.20	0.0076	0.06	32.70	35.50	74.44	2.10
Mugnone 02	26 MG0820	18.82	301.92	94.09	98.28	3.97	0.87	99.08	0.0075	0.15	32.34	37.15	76.12	2.05
Mugnone 02	25 MG0800	69.14	306.72	94.17	98.14	4.28	0.95	99.07	0.0088	0.45	29.44	32.63	71.64	2.20
Mugnone 02	24 MG0790 A	2.05	306.72	92.41	97.70	3.95	0.69	98.49	0.0043	0.01	23.10	27.40	77.65	2.83
Mugnone 02	23 MG0790 B	0.10	306.72	92.41	97.64	4.17	0.70	98.53	0.0042		22.99	22.70	76.40	3.24
Mugnone 02	22 MG0780 C	2.28	306.70	92.41	97.51	4.33	0.74	98.47	0.0048	0.01	24.18	22.67	75.57	3.12
Mugnone 02	21 MG0770 D	76.09	306.70	92.81	97.50	4.19	0.76	98.39	0.0049	0.55	23.62	26.07	73.27	2.81
Mugnone 02	20 MG0760	75.61	306.68	92.12	96.88	5.49	1.00	98.42	0.0095	0.59	17.97	21.73	55.82	2.57
Mugnone 02	19 MG0750	42.15	306.65	91.84	96.11	4.27	0.82	97.05	0.0060	0.21	25.64	28.88	71.74	2.48
Mugnone 02	18 MG0740	23.06	301.77	91.34	95.83	3.64	0.65	96.50	0.0038	0.31	26.15	30.05	82.97	2.76
Mugnone 02	17 MG0730	17.77	280.90	91.07	95.42	6.16	1.36	97.35	0.0232	0.26	20.37	26.91	45.64	1.70
Mugnone 02	16 MG0720	40.86	265.46	90.68	94.86	4.03	0.75	95.68	0.0057	0.18	22.08	27.38	65.89	2.41
Mugnone 02	15 MG0710	20.88	239.58	90.49	94.70	3.27	0.54	95.25	0.0029		19.84	25.38	73.20	2.88
Mugnone 02	14 MG0700	80.78	239.58	84.26	88.19	3.15	0.65	88.70	0.0039	1.74	31.31	33.93	76.02	2.24
Mugnone 02	13 MG0													

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	12 MG0660	66.99	307.90	75.97	80.15	5.06	1.01	81.45	0.0101	0.42	22.59	26.18	60.88	2.33
Mugnone 02	11 MG0650 A	4.33	306.88	75.43	79.47	2.41	0.53	79.76	0.0025	0.01	53.90	55.19	127.55	2.31
Mugnone 02	10 MG0650 B	0.10	306.91	75.43	79.45	2.42	0.54	79.75	0.0025		53.81	55.10	126.91	2.30
Mugnone 02	9 MG0640 C	6.36	305.53	75.43	79.21	3.12	0.71	79.58	0.0045	0.02	52.08	53.28	114.19	2.14
Mugnone 02	8 MG0630 D	107.52	305.42	74.99	79.28	2.09	0.45	79.46	0.0018	0.55	57.31	61.65	163.94	2.66
Mugnone 02	7 MG0620	129.00	305.44	73.46	78.71	4.10	0.89	79.41	0.0085	1.02	29.02	35.92	82.32	2.29
Mugnone 02	6 MG0610 A	2.34	305.74	72.20	77.85	4.84	0.82	78.89	0.0079	0.02	21.55	30.25	67.48	2.61
Mugnone 02	5 MG0610 B	0.01	305.74	72.20	77.83	4.87	0.82	78.89	0.0079		21.30	29.98	67.05	2.61
Mugnone 02	4 MG0600 C	2.04	305.74	72.20	76.06	7.40	1.37	78.86	0.0224	0.04	13.06	18.94	41.30	2.18
Mugnone 02	3 MG0590 D	308.41	305.73	71.91	76.02	7.45	1.31	78.84	0.0209	4.07	12.23	18.28	41.06	2.25
Mugnone 02	2 MG0580	122.53	305.48	66.56	71.40	4.01	0.76	72.22	0.0055	0.95	25.64	30.07	76.20	2.53
Mugnone 02	1 MG0570		306.05	65.04	70.41	5.27	0.93	71.83	0.0100		17.79	24.98	58.07	2.32
Affluente	3	33.63	9.63	131.76	132.21	3.50	2.07	132.84	0.0796	1.46	8.91	9.01	2.75	0.31
Affluente	2	32.62	9.51	129.78	130.88	1.53	0.72	130.99	0.0075	0.13	13.58	13.86	6.22	0.50
Affluente	1	11.61	9.44	128.35	130.80	0.43	0.15	130.80	0.0003	0.01	27.08	28.20	23.17	0.83
Affluente	0.5	1.00	9.43	128.43	130.76	1.10	0.33	130.80	0.0014		7.61	9.17	9.02	0.98
Bargellino	12 BA1002 D	4.89	0.10	173.13	173.62	0.11	0.07	173.62	0.0002	0.18	4.22	4.39	1.42	0.32
Bargellino	11.96	4.89	6.54	172.76	173.38	3.32	1.62	173.94	0.0745	0.36	4.62	4.86	1.97	0.41
Bargellino	11 BA1003	4.90	7.93	162.82	163.64	3.27	1.47	164.19	0.0612	0.30	4.81	5.14	2.43	0.47
Bargellino	10 BA1004 A	2.50	13.63	158.80	159.84	2.32	0.99	160.12	0.0247	0.36	10.56	10.81	5.87	0.54
Bargellino	9 BA1004 B	1.80	13.63	158.72	159.33	5.93	3.04	161.13	0.2632	0.48	5.93	6.12	2.30	0.38
Bargellino	8.8	2.00	13.63	155.31	156.18	4.62	2.17	157.27	0.1303	0.26	6.39	6.63	2.95	0.45
Bargellino	8.6	2.00	13.63	153.86	155.06	4.14	1.95	155.76	0.1109	0.19	5.09	5.76	3.70	0.64
Bargellino	8.4	2.00	13.35	152.48	154.86	1.06	0.40	154.90	0.0040	0.01	10.72	12.82	15.17	1.18
Bargellino	8.2	2.00	12.71	152.08	154.86	0.92	0.30	154.90	0.0023		8.46	11.32	14.46	1.28
Bargellino	8 BA2005 A	2.00	11.85	151.81	154.88	0.64	0.19	154.90	0.0005		9.38	13.10	18.47	1.41
Bargellino	7 BA2005 B		11.85	151.54	154.89	0.40	0.09	154.90	0.0001		12.09	16.02	29.68	1.85
Caldine	11 CD1001	4.27	13.19	166.28	167.25	4.02	1.74	168.08	0.0470	0.19	5.65	6.03	3.28	0.54
Caldine	10 CD2002 A	2.01	13.18	165.00	166.59	1.77	0.62	166.75	0.0049		8.92	9.61	7.45	0.78
Caldine	9 CD2002 B	7.62	13.17	163.12	166.34	0.76	0.19	166.36	0.0005	0.01	11.33	15.63	21.69	1.39
Caldine	8 CD2002 C	0.05	13.17	163.00	166.32	0.90	0.21	166.35	0.0008		4.99	11.61	16.10	1.39
Caldine	7 CD2002 D	1.02	13.17	163.00	166.31	0.90	0.21	166.35	0.0008		4.99	11.60	16.08	1.39
Caldine	6 CD2002 E	1.02	13.17	163.00	166.30	1.05	0.24	166.35	0.0012		4.12	10.70	13.58	1.27
Caldine	5 CD2002 F	1.02	13.17	163.00	166.30	1.05	0.24	166.34	0.0012	0.01	4.13	10.71	13.60	1.27
Caldine	4 CD2002 G	189.26	13.17	163.00	166.25	2.10	0.57	166.34	0.0092		4.10	10.31	9.79	0.95
Caldine	3 CD2002 H	2.03	13.17	151.48	153.29	2.81	0.73	153.69	0.0129	0.02	3.12	6.26	4.68	0.75
Caldine	2 CD2002 I	3.29	13.17	151.41	153.28	2.22	0.58	153.54	0.0061	0.02	3.91	6.43	5.93	0.92
Caldine	1.9	5.29	13.17	151.41	153.26	2.26	0.59	153.52	0.0064		3.89	6.37	5.82	0.91
Caldine	1	4.87	12.88	148.61	151.30	0.40	0.10	151.31	0.0001		19.87	21.02	32.50	1.55
Caldine	0.5		1.00	148.61	151.30	0.03	0.01	151.30	0.0000		19.87	21.01	32.51	1.55
Capparello	11	0.92	26.08	187.06	188.34	5.98	2.50	190.15	0.0951	0.08	6.13	6.75	4.37	0.65
Capparello	10	2.15	26.08	186.76	187.84	4.59	2.04	188.70	0.0619	0.07	7.19	7.96	6.33	0.80
Capparello	9	0.10	26.08	186.22	187.70	2.52	0.77	188.02	0.0066		9.91	7.00	12.51	1.48
Capparello	8	2.02	26.08	185.70	186.61	4.08	1.36	187.46	0.0217	0.07	8.55	7.00	7.10	0.91
Capparello	7	4.54	26.08	185.55	186.53	4.52	1.67	187.57	0.0435	0.20	6.98	8.41	5.76	0.69
Capparello	5	0.44	25.91	183.61	185.52	2.49	0.58	185.84	0.0058		5.60	9.16	10.41	1.14
Capparello	4	0.92	25.91	182.14	184.21	2.27	0.50	184.47	0.0045		5.55	9.64	11.43	1.19
Capparello	3	0.55	25.91	182.33	184.16	2.40	0.57	184.46	0.0054		6.01	9.54	10.78	1.13
Capparello	2	22.00	5.75	179.97	183.00	0.32	0.06	183.01	0.0001		6.01	12.05	18.19	1.51
Capparello	1		3.00	178.11	183.00	0.02		183.00			40.25	44.46	145.72	3.28
Fossataccio	21 FO1001	4.61	7.20	153.35	153.93	4.06	2.21	154.78	0.0798	0.37	5.15	5.31	1.77	0.33
Fossataccio	20 FO1002	4.53	7.19	149.68	150.68	4.29	1.95	151.56	0.0694	0.40	4.14	4.88	1.85	0.42
Fossataccio	19 FO1003	4.52	11.56	146.97	147.91	3.91	1.78	148.69	0.0480	0.22	6.01	6.31	2.95	0.47
Fossataccio	18 FO1004	4.81	11.55	144.62	145.69	4.45	1.70	146.70	0.0457	0.22	3.73	4.50	2.60	0.58
Fossataccio	17 FO1005	4.65	11.54	142.64	143.62	4.39	1.90	144.61	0.0541	0.25	4.81	5.26	2.63	0.50
Fossataccio	16 FO1006	4.79	11.54	140.17	140.85	6.29	2.92	142.87	0.1352	0.66	3.87	4.24	1.83	0.43
Fossataccio	15 FO1007	4.95	12.24	131.33	132.15	4.70	1.82	133.28	0.0539	0.26	3.83	4.66	2.60	0.56
Fossataccio	14 FO1008	1.99	12.23	128.83	130.81	1.42	0.46	130.91	0.0027	0.01	7.78	8.87	8.78	0.99
Fossataccio	13.4	0.82	12.22	128.70	130.76	1.45	0.47	130.86	0.0030		7.61	8.83	8.65	0.98
Fossataccio 02	13.1	1.00	20.23	128.34	130.76	2.22	0.65	131.01	0.0060		7.60	9.29	9.12	0.98
Fossataccio 02	13 FO1009 A	1.00	20.23	125.65	128.45	4.66	1.36	128.81	0.0366	0.03	3.68	7.49	7.68	1.03
Fossataccio 02	12.7	0.50	20.23	125.62	128.49	3.88	0.98	128.76	0.0230	0.01	4.68	9.64	8.88	0.92
Fossataccio 02	12 FO1009 B	0.10	20.23	125.54	128.49	3.86	0.97	128.73	0.0227		4.97	9.96	9.24	0.93
Fossataccio 02	11 FO2009 C	1.00	20.22	123.21	124.91	4.18	1.28	125.70	0.0359	0.03	3.03	6.42	5.14	0.80
Fossataccio 02	10 FO2009 D	1.89	20.22	123.15	124.88	4.10	1.25	125.64	0.0341	0.06	3.03	6.49	5.24	0.81
Fossataccio 02	9 FO2010 A	1.00	20.26	121.81	124.58	2.61	0.61	124.92	0.0102	0.01	2.82	8.34	7.77	0.93
Fossataccio 02	8 FO2010 B	1.80	20.25	121.79	124.57	2.59	0.60	124.91	0.0100	0.02	2.82	8.37	7.82	0.93
Fossataccio 02	7 FO2010 C	1.00	20.21	121.65	124.53	2.50	0.56	124.85	0.0089	0.01	2.82	8.57	8.10	0.95
Fossataccio 02	6 FO2010 D	0.90	20.21	121.64	124.57	2.27	0.54	124.82	0.0074	0.01	3.33	9.16	9.11	0.99
Fossataccio 02	5 FO2011 A	1.00	18.62	121.60	124.67	1.74	0.40	124.80	0.0036		4.03	10.14	11.83	1.17
Fossataccio 02	4 FO2011 B	113.19	18.62	121.59	124.69	1.72	0.43	124.79	0.0039		6.01	11.87	13.90	1.17
Fossataccio 02	3 FO2011 C	1.00	18.62	119.70	121.30	2.41	0.61	121.60	0.0068	0.01	4.82	8.01	7.72	0.96
Fossataccio 02	2 FO2011 D	36.48	18.62	119.67	121.30	2.38	0.59	121.59	0.0065	1.31	4.82	8.06	7.84	0.97
Fossataccio 02	1 FO1012	22.15	18.62	118.69	119.86	5.75	2.09	121.54	0.0651	0.72	4.18	4.98	3.24	0.65
Fossataccio 02	0.5		0.81	116.57	118.80	0.02	0.01	118.80			23.45	24.21	33.72	1.39
Molina	16 ML1001	20.29	19.12	218.05	218.56	6.61	3.92	220.78	0.2809	3.55	9.60	9.76	2.89	0.30
Molina	15 ML2002	2.72	19.12	213.75	215.24	6.38	1.86	217.31	0.0792	0.20	2.49	4.57	3.00	0.66
Molina	14 ML2003 A	0.44	19.12	212.58	213.73	5.76	2.59	215.28	0.1223	0.04	5.22	6.50	3.46	0.53

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Molina	13 ML2003 B	1.02	19.12	212.15	213.45	3.21	1.04	213.98	0.0172	0.01	5.40	7.25	5.96	0.82
Molina	12 ML2003 C	33.65	19.12	212.11	213.42	2.79	0.79	213.81	0.0071		6.94	5.25	7.96	1.31
Molina	11 ML2003 D	2.04	19.12	209.02	210.58	2.34	0.68	210.86	0.0050	0.03	6.53	5.25	9.18	1.56
Molina	10 ML2003 E	2.77	19.12	208.96	210.51	3.84	1.21	211.26	0.0280	0.08	3.50	6.14	4.98	0.81
Molina	9 ML2004	2.92	19.12	208.00	210.00	4.91	1.20	211.23	0.0445	0.12	2.27	5.71	3.89	0.68
Molina	8 ML1005	2.80	19.12	207.36	208.54	9.45	3.24	213.10	0.2325	0.64	2.31	3.82	2.02	0.53
Molina	7 ML2006	3.80	19.85	203.91	205.03	5.98	2.16	206.76	0.0927	0.31	3.08	5.24	3.41	0.65
Molina	6 ML2007 A	1.01	19.85	202.71	204.37	4.12	1.10	205.15	0.0276	0.02	3.11	6.32	5.07	0.80
Molina	5 ML2007 B	0.10	19.85	202.61	204.33	3.83	0.99	205.01	0.0097		3.18	3.16	5.46	1.72
Molina	4 ML2007 C	1.00	19.85	202.41	203.31	6.96	2.34	205.78	0.0706	0.09	3.17	3.16	2.86	0.90
Molina	3 ML2007 D	4.37	19.85	202.31	203.22	6.90	2.32	205.64	0.1095	0.54	3.18	4.98	2.88	0.58
Molina	2 ML2008	4.51	19.85	199.27	200.37	6.24	1.95	202.35	0.0806	0.36	2.90	5.09	3.18	0.63
Molina	1 ML2009	15.76	19.85	197.17	198.19	6.11	1.93	200.10	0.0777	0.61	3.18	5.21	3.25	0.62
Molina	0.25	1.00	8.18	192.28	197.20	0.12	0.02	197.20	0.0000		21.21	26.11	66.44	2.54
Molina	0.2		3.50	192.23	197.20	0.05	0.01	197.20	0.0000		21.21	26.18	66.59	2.54
Ponticello	23 PN1001	4.99	29.51	149.11	150.26	5.05	1.91	151.57	0.0485	0.24	8.18	8.60	5.84	0.68
Ponticello	22 PN1002 A	3.00	29.71	145.89	148.01	3.83	1.42	148.57	0.0292	0.06	5.74	7.94	8.99	1.13
Ponticello	21 PN2002 B	12.00	29.70	145.50	147.97	3.45	0.76	148.58	0.0128	0.14	3.49	8.42	8.61	1.02
Ponticello	20 PN2002 C	3.00	29.69	145.10	147.86	3.14	0.61	148.36	0.0101	0.03	3.49	8.89	9.45	1.06
Ponticello	19 PN2002 D	4.04	29.68	145.00	147.85	2.99	0.57	148.30	0.0089	0.04	3.50	9.18	9.94	1.08
Ponticello	18 PN2003 A	0.50	27.54	144.70	147.65	3.12	0.58	148.14	0.0109		3.00	8.87	8.81	0.99
Ponticello	17 PN2003 B	1.00	27.49	142.90	146.07	2.92	0.64	146.50	0.0104	0.01	2.99	9.32	9.47	1.02
Ponticello	16 PN2004 A	0.50	27.72	142.87	146.05	2.92	0.63	146.49	0.0102	0.01	3.00	9.32	9.48	1.02
Ponticello	15 PN2004 B	0.60	28.32	142.85	146.01	3.01	0.62	146.47	0.0099	0.01	3.00	9.29	9.42	1.01
Ponticello	14 PN2004 C	0.50	28.85	142.82	145.97	3.07	0.60	146.45	0.0103	0.01	3.00	9.27	9.40	1.01
Ponticello	13 PN2004 D	4.79	29.16	142.80	145.95	3.09	0.59	146.44	0.0104	0.04	3.00	9.28	9.43	1.02
Ponticello	12 PN2005 A	1.17	28.14	142.65	146.08	1.82	0.34	146.25	0.0024		4.52	11.35	15.45	1.36
Ponticello	11 PN2005 B	35.33	28.14	142.64	145.92	2.53	0.49	146.25	0.0061		3.41	9.94	11.14	1.12
Ponticello	8 PN2005 E	2.83	27.78	141.03	142.89	3.74	0.88	143.61	0.0163	0.04	3.99	7.71	7.43	0.96
Ponticello	7 PN1005 F	4.76	27.64	140.70	142.83	3.47	1.03	143.45	0.0159	0.06	6.21	8.23	7.96	0.97
Ponticello	6 PN1006 A	2.00	16.57	139.53	142.82	0.91	0.25	142.84	0.0008		11.87	14.69	22.02	1.50
Ponticello	5 PN2006 B	0.20	16.57	139.49	142.74	1.46	0.31	142.84	0.0021	0.01	3.99	9.37	11.46	1.22
Ponticello	4 PN2006 C	2.06	16.57	139.22	140.68	3.69	1.03	141.38	0.0208	0.07	3.45	5.72	4.49	0.79
Ponticello	3 PN1006 D	1.88	16.56	139.07	140.58	4.70	1.71	141.65	0.0477	0.09	4.15	5.28	3.63	0.69
Ponticello	2 PN1007	4.45	20.98	138.36	139.39	6.83	2.72	141.77	0.1073	0.37	4.77	5.31	3.07	0.58
Ponticello	1 PN1008	11.70	1.66	136.35	138.40	0.11	0.03	138.40	0.0000		9.63	11.59	14.52	1.25
Ponticello	0.5		1.00	134.06	138.40	0.01		138.40			27.84	30.33	76.10	2.51
Pian Mugnone	16 PD1001	36.33	3.41	142.91	143.78	1.45	0.69	143.89	0.0073	0.25	5.20	5.54	2.35	0.42
Pian Mugnone	15 PD1002 A	1.01	2.95	142.71	143.54	1.48	0.60	143.66	0.0064		3.13	4.03	1.99	0.49
Pian Mugnone	14.1	1.00	2.95	134.10	135.17	2.07	0.85	135.29	0.0184	0.02	1.79	3.91	1.90	0.49
Pian Mugnone	14 PD2002 B	22.15	3.05	134.10	135.14	2.18	0.91	135.27	0.0210	0.16	1.78	3.85	1.85	0.48
Pian Mugnone	13 PD2002 C	0.15	3.05	133.60	135.05	1.50	0.55	135.12	0.0082		1.79	4.68	2.59	0.55
Pian Mugnone	12.8	0.10	3.05	133.60	135.05	1.50	0.55	135.12	0.0082		1.79	4.68	2.59	0.55
Pian Mugnone	12 PD2002 D	0.81	3.05	131.85	135.04	0.31	0.06	135.04	0.0001		3.19	9.54	9.93	1.04
Pian Mugnone	11 PD2002 E	0.25	2.45	131.85	135.04	0.26	0.05	135.04	0.0001		3.15	9.51	9.91	1.04
Pian Mugnone	10 PD2002 F	50.36	2.45	131.80	135.04	0.36	0.09	135.04	0.0002		3.17	8.61	7.87	0.91
Pian Mugnone	9 PD2002 G	1.50	2.45	130.65	131.44	2.96	1.56	131.88	0.0538	0.05	2.21	2.86	0.83	0.29
Pian Mugnone	8 PD1002 H	1.97	2.45	130.60	131.33	1.81	0.92	131.50	0.0149	0.03	3.34	3.75	1.36	0.36
Pian Mugnone	7 PD2003 A	5.11	1.53	129.77	131.28	0.41	0.14	131.29	0.0004		4.38	6.11	3.74	0.61
Pian Mugnone	6 PD2003 B	12.49	1.40	129.76	131.25	0.74	0.24	131.28	0.0016		1.88	3.83	1.95	0.51
Pian Mugnone	5 PD2003 C	1.50	1.53	129.13	130.12	1.85	0.70	130.29	0.0165	0.01	1.17	2.48	0.82	0.33
Pian Mugnone	4 PD2003 D	0.95	1.53	129.00	130.12	0.60	0.20	130.14	0.0008		2.83	4.22	2.56	0.61
Pian Mugnone	3 PD2004 A	1.50	0.56	128.96	130.15	0.24	0.08	130.15	0.0001		2.37	4.00	2.39	0.60
Pian Mugnone	2 PD2004 B	5.65	0.56	128.67	130.14	0.40	0.13	130.15	0.0007		1.44	4.03	1.44	0.36
Pian Mugnone	1 PD2004 C	8.77	0.56	128.43	128.93	2.83	1.39	129.34	0.1030	0.45	0.47	1.25	0.20	0.16
Pian Mugnone	0.75	1.00	0.45	126.05	128.40	0.01		128.40			22.62	23.41	30.57	1.31
Pian Mugnone	0.5		0.44	126.03	128.40	0.01		128.40			22.62	23.42	30.63	1.31
Margherita	10 MS1001	4.61	14.10	184.09	185.02	3.98	1.85	185.83	0.0523	0.24	7.30	7.62	3.54	0.46
Margherita	9 MS2002 A	1.00	13.43	182.24	183.77	2.17	0.60	184.01	0.0060		4.51	6.88	6.20	0.90
Margherita	8 MS2002 B	2.51	13.43	179.99	183.00	1.91	0.50	183.08	0.0053	0.02	3.60	9.58	10.79	1.13
Margherita	7 MS2002 C	1.00	13.43	180.09	182.99	2.11	0.58	183.07	0.0070	0.01	3.60	9.38	10.42	1.11
Margherita	6 MS2002 D	0.10	13.43	180.07	182.91	3.24	0.90	183.07	0.0215		3.48	8.26	7.52	0.91
Margherita	5 MS2002 E	1.23	13.43	179.64	180.80	4.84	1.44	182.00	0.0524	0.05	2.40	4.70	2.78	0.59
Margherita	4 MS2002 F	4.77	13.43	179.64	180.66	3.81	1.31	181.40	0.0332	0.16	3.98	6.00	3.53	0.59
Margherita	3 MS2003	4.78	13.42	178.21	179.37	4.31	1.50	180.31	0.0418	0.20	3.71	5.30	3.12	0.59
Margherita	2 MS2005	4.78	13.41	176.37	177.75	2.53	0.98	178.08	0.0150	0.35	5.47	7.05	5.30	0.75
Margherita	1 MS2006	9.76	13.41	176.20	177.18	7.16	2.46	179.79	0.1341	0.65	2.17	3.56	1.87	0.53
Margherita	0.7	0.50	11.97	172.30	176.00	0.21	0.04	176.00	0.0000		18.32	22.94	57.39	2.50
Margherita	0.5		0.50	172.29	176.00	0.01		176.00			18.32	22.95	57.53	2.51

Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]
Capannucce	8.5	0.0	Mugnone 02	105.395	0.0	Fossataccio	20.998	0.0
Capannucce	8.25	0.0	Mugnone 02	103.98	1.2	Fossataccio 02	9.999	0.0
Mugnoncello 01	55.99	0.0	Mugnone 02	82.39	2.6	Fossataccio 02	9.998	0.0
Mugnoncello 01	55.98	0.4	Mugnone 02	81.95	1.1	Fossataccio 02	5.999	0.0
Mugnoncello 01	51.99	0.0	Mugnone 02	77.5	-2.6	Fossataccio 02	5.998	0.0
Mugnoncello 01	51.98	-0.2	Mugnone 02	77.4	-1.1	Fossataccio 02	1.999	0.0
Mugnoncello 02	46.123	0.0	Mugnone 02	66.9	6.6	Fossataccio 02	1.98	0.0
Mugnoncello 02	45.99	0.0	Mugnone 02	64.8	0.2	Molina	15.25	0.0
Mugnoncello 02	34.999	0.0	Mugnone 02	41.9	-1.6	Molina	9.99	0.0
Mugnoncello 02	34.998	0.0	Mugnone 02	41.8	0.0	Molina	9.98	0.0
Mugnoncello 02	20.999 MU2026 C	0.0	Mugnone 02	36.9	-3.5	Molina	2.99	0.0
Mugnoncello 02	20.998	0.0	Mugnone 02	36.8	0.0	Molina	2.98	0.0
Mugnoncello 02	13.999 MU2030 C	0.0	Mugnone 02	30.9	-0.1	Ponticello	22.999	0.0
Mugnoncello 02	13.998	0.0	Mugnone 02	30.8	0.0	Ponticello	22.998	0.0
Mugnoncello 02	19.999 MU2035 C	0.0	Mugnone 02	20.9	7.8	Ponticello	19.999	0.0
Mugnoncello 02	5.998	0.0	Mugnone 02	20.8	0.1	Ponticello	19.998	0.0
Mugnone 01	241.5	0.0	Mugnone 02	7.9	0.0	Ponticello	6.99	2.4
Mugnone 01	241.25	0.0	Mugnone 02	7.8	0.0	Ponticello	6.89	0.6
Mugnone 01	239.45	0.0	Mugnone 02	2.9	0.0	Ponticello	2.99	-0.1
Mugnone 01	239.4	0.0	Mugnone 02	2.8	0.0	Ponticello	2.89	-0.5
Mugnone 01	223.38	0.0	Affluente	2.999	0.0	Pian Mugnone	15.5	0.0
Mugnone 01	223.25	0.0	Affluente	2.998	0.0	Pian Mugnone	15.4	0.0
Mugnone 01	209.99	0.0	Bargellino	11.99	-3.9	Pian Mugnone	11.99	0.0
Mugnone 01	209.98	0.0	Bargellino	11.98	-0.9	Pian Mugnone	11.98	0.0
Mugnone 01	187.5	0.0	Bargellino	11.959	0.1	Pian Mugnone	7.99	0.0
Mugnone 01	187.45	0.0	Caldine	10.99	0.0	Pian Mugnone	7.98	0.2
Mugnone 02	177.39	0.2	Caldine	10.98	0.0	Pian Mugnone	3.99	0.4
Mugnone 02	176.999	-0.2	Caldine	6.99	0.0	Pian Mugnone	3.98	0.3
Mugnone 02	176.998	1.1	Caldine	6.98	0.0	Margherita	9.999	0.0
Mugnone 02	142.5	0.0	Capparello	10.99	0.0	Margherita	9.998	0.0
Mugnone 02	141.4	0.0	Capparello	10.98	0.0	Margherita	3.999	0.0
Mugnone 02	137.5	0.0	Capparello	6.99	0.0	Margherita	3.998	0.0
Mugnone 02	137.4	0.0	Capparello	6.98	0.0	-	-	-
Mugnone 02	106.4	0.0	Fossataccio	20.999	0.0	-	-	-

**Tabulati verifiche idrauliche
torrente Mugnone e affluenti
Tr = 200 anni**

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Capannucce	9 FG001	31.47	5.28	198.04	198.63	4.78	2.47	199.80	0.1081	3.25	2.89	3.28	1.10	0.34
Capannucce	8 FG002	26.88	5.28	194.92	195.41	4.63	2.42	196.50	0.1215	1.73	2.58	3.23	1.14	0.35
Capannucce	7 FG003	5.34	5.27	192.60	193.75	1.85	0.60	193.93	0.0070		2.90	4.51	2.85	0.63
Capannucce	6 FG004	24.04	5.27	191.52	192.22	3.33	1.42	192.78	0.0401	0.90	2.51	3.51	1.58	0.45
Capannucce	5 FG005	22.20	5.27	190.61	191.53	2.68	1.34	191.83	0.0365	0.53	2.66	3.99	2.17	0.54
Capannucce	4 FG006	16.98	5.50	189.82	191.27	1.76	0.74	191.39	0.0113	0.13	2.79	5.08	3.54	0.70
Capannucce	3 FG007_A	1.33	4.89	189.44	191.27	1.24	0.44	191.33	0.0040	0.01	2.90	5.96	4.66	0.78
Capannucce	2 FG007_B	4.59	4.89	189.40	191.28	1.21	0.46	191.32	0.0040		4.54	6.87	5.66	0.82
Capannucce	1 FG007_C	6.68	4.89	189.10	189.46	6.54	4.02	191.64	0.3677	1.23	2.15	2.75	0.75	0.27
Capannucce	0.5	2.00	4.82	186.52	187.92	0.82	0.29	187.95	0.0012	0.06	7.37	8.11	5.90	0.73
Mugnoncello 01	56 MU001	3.79	50.59	192.36	197.90	1.16	0.22	197.97	0.0006		10.21	17.75	44.40	2.50
Mugnoncello 01	55 MU002_A	1.18	41.61	192.26	197.94	0.60	0.12	197.95	0.0002		22.89	29.40	89.23	3.03
Mugnoncello 01	54 MU002_B	3.58	41.61	192.39	197.88	1.43	0.25	197.96	0.0011		6.61	15.83	32.90	2.08
Mugnoncello 01	53 MU002_C	1.19	41.61	192.21	193.91	4.81	1.26	195.09	0.0229	0.03	5.81	7.97	8.66	1.09
Mugnoncello 01	52 MU002_D	16.69	41.61	192.04	193.79	4.16	1.51	194.68	0.0335	0.91	12.94	15.14	9.99	0.66
Mugnoncello 01	51 MU003	24.34	44.27	191.24	192.85	5.43	2.19	194.35	0.0783	1.19	12.68	14.70	8.15	0.55
Mugnoncello 01	50 MU004	28.69	45.56	190.08	191.57	4.73	1.41	192.71	0.0243	1.37	8.44	9.47	9.63	1.02
Mugnoncello 01	49 MU005	11.48	48.90	188.55	190.13	6.35	2.30	192.19	0.0758	0.66	9.66	10.68	7.70	0.72
Mugnoncello 01	48 MU006	25.92	48.94	187.90	189.28	4.80	1.70	190.45	0.0387	0.99	11.51	12.40	10.20	0.82
Mugnoncello 01	47 MU007	8.43	50.48	186.52	188.29	5.73	1.77	189.97	0.0391	0.39	8.27	9.29	8.81	0.95
Mugnoncello 01	46.3	2.00	50.47	186.20	187.92	6.07	2.02	189.78	0.0544	0.12	8.15	9.12	8.38	0.92
Mugnoncello 02	46.2	12.31	55.29	186.20	187.92	6.60	2.17	190.14	0.0626	0.61	8.15	9.12	8.38	0.92
Mugnoncello 02	46 MU008	28.37	55.29	185.48	187.21	5.66	1.70	188.84	0.0366	0.89	8.39	9.36	9.78	1.04
Mugnoncello 02	45 MU009	20.94	55.62	184.11	186.31	5.30	1.44	187.74	0.0258	0.41	7.56	9.04	10.49	1.16
Mugnoncello 02	44 MU010	30.73	55.65	183.45	185.73	4.15	1.07	186.61	0.0134	0.54	8.78	10.28	13.43	1.31
Mugnoncello 02	43 MU2011	23.86	55.65	183.38	185.16	4.85	1.28	186.35	0.0219	0.90	7.86	10.08	11.48	1.14
Mugnoncello 02	42 MU2012	27.16	55.65	182.83	184.26	5.85	2.03	186.00	0.0605	1.12	9.78	11.53	9.52	0.83
Mugnoncello 02	41 MU2013	23.69	55.64	180.99	183.10	4.06	1.24	183.94	0.0220	0.53	9.66	12.38	13.71	1.11
Mugnoncello 02	40 MU2014	15.54	55.64	180.01	182.61	4.97	1.19	183.87	0.0228	0.38	6.23	9.59	11.18	1.17
Mugnoncello 02	39 MU2015	15.21	55.64	180.06	182.26	5.04	1.31	183.55	0.0262	0.31	6.25	9.26	11.05	1.19
Mugnoncello 02	38 MU2016_A	2.02	55.64	179.42	181.86	4.32	0.94	182.81	0.0162	0.03	5.92	10.70	12.88	1.20
Mugnoncello 02	37 MU2016_B	0.01	55.64	179.42	181.82	4.44	0.92	182.83	0.0162		5.21	10.01	12.52	1.25
Mugnoncello 02	36 MU2016_C	2.12	55.64	179.15	181.04	5.66	1.32	182.67	0.0315	0.07	5.21	8.98	9.83	1.10
Mugnoncello 02	35 MU2016_D	5.63	55.64	179.15	180.95	5.93	1.42	182.74	0.0357	0.18	5.22	8.80	9.39	1.07
Mugnoncello 02	34 MU2017	30.63	55.64	178.64	180.70	5.48	1.47	182.23	0.0275	0.83	7.15	8.74	10.16	1.16
Mugnoncello 02	33 MU2018	4.67	55.64	177.85	179.87	5.51	1.43	181.42	0.0268	0.13	6.64	8.51	10.09	1.19
Mugnoncello 02	32 MU2019	4.83	55.63	176.04	177.64	6.17	1.90	179.58	0.0459	0.22	8.36	9.40	9.01	0.96
Mugnoncello 02	31 MU2020	4.80	55.41	173.85	175.89	5.32	1.51	177.32	0.0287	0.15	8.05	9.37	10.48	1.12
Mugnoncello 02	30 MU2021	4.84	61.75	171.25	173.19	5.10	1.50	174.51	0.0290	0.13	9.58	10.99	12.11	1.10
Mugnoncello 02	29 MU2022_A	1.16	61.74	169.92	172.27	2.63	0.61	172.62	0.0046		12.22	15.51	23.50	1.52
Mugnoncello 02	28 MU2022_B	4.68	61.74	169.35	171.27	4.22	1.16	172.18	0.0190	0.09	10.91	14.19	14.63	1.03
Mugnoncello 02	27 MU1023	4.66	61.72	168.57	170.34	4.22	1.14	171.25	0.0146	0.07	10.43	11.64	14.61	1.26
Mugnoncello 02	26 MU1024	46.69	61.72	167.55	169.17	5.81	1.81	170.89	0.0386	1.65	10.15	10.84	10.62	0.98
Mugnoncello 02	25 MU1025	34.07	61.71	165.75	167.55	5.00	1.61	168.82	0.0322	0.75	10.66	11.52	12.35	1.07
Mugnoncello 02	24 MU1026_A	2.03	61.70	164.70	166.78	3.69	1.00	167.47	0.0119	0.02	10.12	11.90	16.74	1.41
Mugnoncello 02	23 MU2026_B	0.10	61.70	164.64	166.76	3.75	0.94	167.48	0.0123		9.66	13.07	16.44	1.26
Mugnoncello 02	22 MU2026_C	2.03	61.70	164.61	166.29	4.91	1.27	167.52	0.0225	0.04	8.20	11.03	12.57	1.14
Mugnoncello 02	21 MU1026_D	45.00	61.70	164.45	166.19	4.52	1.22	167.24	0.0171	0.88	9.76	11.04	13.65	1.24
Mugnoncello 02	20 MU1027	22.32	61.68	163.77	165.33	4.27	1.40	166.25	0.0239	0.47	13.74	14.35	14.46	1.01
Mugnoncello 02	19 MU1028	33.36	61.66	163.20	164.85	3.76	1.24	165.56	0.0184	0.54	17.06	17.69	16.56	0.95
Mugnoncello 02	18 MU1029	16.20	61.64	162.46	164.37	3.18	1.09	164.87	0.0141	0.19	15.38	16.16	19.72	1.22
Mugnoncello 02	17 MU1030_A	2.13	61.63	161.94	164.23	3.41	0.93	164.82	0.0098	0.02	11.22	12.57	18.06	1.44
Mugnoncello 02	16 MU2030_B	0.10	61.63	161.92	164.16	2.90	0.69	164.59	0.0066		11.94	16.37	21.25	1.37
Mugnoncello 02	15 MU2030_C	0.28	61.63	161.85	164.18	2.77	0.65	164.57	0.0058		11.95	16.61	22.25	1.34
Mugnoncello 02	14.9	1.00	61.63	161.83	164.18	2.75	0.64	164.57	0.0057		11.95	16.65	22.43	1.35
Mugnoncello 02	14.25	1.00	60.96	160.08	162.85	2.54	0.50	163.18	0.0037		9.15	14.68	23.99	1.63
Mugnoncello 02	14 MU1030_D	45.19	60.93	160.08	162.84	2.53	0.51	163.17	0.0033	1.39	9.67	13.70	24.12	1.76
Mugnoncello 02	13 MU1031	4.65	61.51	159.52	161.26	6.78	2.17	163.61	0.0590	0.29	9.01	9.86	9.07	0.92
Mugnoncello 02	12 MU1032	42.02	65.02	155.71	157.73	5.34	1.74	159.13	0.0373	1.06	10.38	11.32	12.41	1.10
Mugnoncello 02	11 MU1033	31.02	64.90	153.66	156.77	3.78	1.05	157.39	0.0133	0.23	10.83	12.67	18.55	1.46
Mugnoncello 02	10 MU1034	36.50	64.85	152.97	156.47	1.62	0.39	156.61	0.0015	0.20	17.97	19.70	40.37	2.05
Mugnoncello 02	9 MU2035_A	1.06	64.84	152.52	155.94	3.78	0.65	156.67	0.0097	0.01	5.03	11.84	17.16	1.45
Mugnoncello 02	8 MU2035_B	0.30	64.84	152.52	155.93	3.79	0.66	156.66	0.0098		5.03	11.81	17.09	1.45
Mugnoncello 02	7 MU2035_C	1.02	64.82	152.62	154.60	6.54	1.52	156.78	0.0414	0.06	5.02	8.96	9.92	1.11
Mugnoncello 02	6 MU2035_D	5.90	64.81	152.62	154.43	8.04	2.03	157.73	0.0756	0.34	4.46	8.06	8.06	1.00
Mugnoncello 02	5 MU1036_A	1.00	64.70	151.92	153.65	5.78	1.82	155.35	0.0412	0.03	9.14	10.12	11.19	1.11
Mugnoncello 02	4 MU1036_B	11.81	64.57	151.53	153.46	4.79	1.42	154.63	0.0245	0.20	10.18	11.34	13.48	1.19
Mugnoncello 02	3 MU1037	30.04	64.30	150.88	153.14	3.54	0.93	153.77	0.0098	0.24	12.35	13.43	18.30	1.36
Mugnoncello 02	2 MU1038	30.76	63.30	150.37	152.88	3.02	0.77	153.31	0.0062	0.11	13.70	14.81	21.50	1.45
Mugnoncello 02	1 MU1039	12.59	61.72	149.09	152.78	1.37	0.28	152.86	0.0008	0.01	19.49	22.39	47.45	2.12
Mugnoncello 02	0.5 MU1038	1.00	61.95	148.62	152.80	0.99	0.19	152.84	0.0003		21.92	25.82	65.02	2.52
Mugnone 01	242 MG2001	47.92	92.23	195.00	196.21	4.25	1.30	197.14	0.0206	1.06	19.73	21.59	21.69	1.00
Mugnone 01	241 MG1002	33.35	92.21	193.32	195.15	5.08	1.46	196.47	0.0235	0.63	14.62	15.29	18.16	1.19
Mugnone 01	240 MG1003	12.74	94.04	192.12	194.45	4.56	1.17	195.51	0.0149	0.29	13.23	14.86	20.63	1.39
Mugnone 01	239.5	6.42	94.04	192.12	194.08	5.88	1.65	195.85	0.0313	0.18	12.31	13.68	15.98	1.17
Mugnone 01	239 MG1004	27.47	110.04	192.10	193.84	5.50	1.53	195.38	0.0257	0.81	15.23	16.35	20.00	1.22
Mugnone 01	238 MG1005	28.68	110.04	191.37	193.01	5.80	1.76	194.72	0.0350	0.85	16.77	17.38	18.98	1.09
Mugnone 01	237 MG1006	30.07	110.03	190.03	192.15	5.61	1.52	193.75	0.0245	0.65	14.05			

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 01	236 MG1007	25.69	110.03	189.40	191.40	5.00	1.35	192.67	0.0190	0.47	15.75	16.53	22.00	1.33
Mugnone 01	235 MG1008	34.95	110.02	188.69	190.90	4.82	1.30	192.08	0.0175	0.53	16.35	17.12	22.84	1.33
Mugnone 01	234 MG1009	31.67	110.02	187.70	190.28	4.19	1.12	191.18	0.0129	0.90	18.49	19.28	26.23	1.36
Mugnone 01	233 MG1010	26.68	110.01	187.01	189.29	6.06	1.94	191.16	0.0437	1.34	18.23	19.09	18.14	0.95
Mugnone 01	232 MG1011	26.61	110.01	186.03	187.88	7.19	2.24	190.51	0.0572	1.06	14.54	15.06	15.31	1.02
Mugnone 01	231 MG1012	26.08	110.00	184.52	186.32	4.25	1.41	187.24	0.0228	0.59	27.82	28.30	25.86	0.91
Mugnone 01	230 MG1013	28.58	109.99	184.09	185.73	4.18	1.37	186.62	0.0226	0.66	27.43	28.25	26.33	0.93
Mugnone 01	229 MG1014	35.32	109.99	183.41	185.12	4.68	1.45	186.24	0.0236	0.56	19.83	20.33	23.51	1.16
Mugnone 01	228 MG1015	34.11	109.99	182.01	184.47	3.30	0.88	185.02	0.0079	0.24	22.23	23.03	33.34	1.45
Mugnone 01	227 MG1016	30.32	111.62	181.25	184.23	3.29	0.80	184.79	0.0063	0.15	19.58	20.73	33.92	1.64
Mugnone 01	226 MG1017	25.69	112.70	180.75	184.03	2.68	0.61	184.40	0.0036		21.69	23.11	42.09	1.82
Mugnone 01	225 MG1018	15.62	112.70	177.42	179.87	3.90	0.83	180.65	0.0080	0.22	12.76	16.62	28.93	1.74
Mugnone 01	224 MG1019	6.00	112.70	178.02	179.63	4.48	1.37	180.65	0.0204	0.21	23.08	23.60	25.18	1.07
Mugnone 01	223.4	17.09	112.69	178.02	179.35	5.96	2.06	181.16	0.0516	0.69	21.15	21.55	18.90	0.88
Mugnone 01	223 MG1020	17.21	135.89	177.12	178.55	4.89	1.58	179.78	0.0290	0.38	25.79	26.37	27.76	1.05
Mugnone 01	222 MG1021	16.85	135.88	176.14	178.12	4.18	1.20	179.01	0.0156	0.18	25.56	26.01	32.49	1.25
Mugnone 01	221 MG1022	24.21	135.87	175.10	177.81	2.94	0.75	178.25	0.0056	0.34	29.85	30.91	46.20	1.49
Mugnone 01	220 MG1023	20.87	135.86	174.86	177.43	4.50	1.37	178.46	0.0224	0.34	26.37	28.84	30.18	1.05
Mugnone 01	219 MG1024	23.04	135.86	174.22	177.00	3.64	0.96	177.67	0.0104	0.29	25.24	28.11	37.35	1.33
Mugnone 01	218 MG1025	20.24	136.53	173.94	176.70	4.12	1.12	177.56	0.0148	0.32	23.53	26.34	33.17	1.26
Mugnone 01	217 MG1026	24.28	136.52	173.55	176.36	4.60	1.25	177.44	0.0177	0.45	21.61	23.93	29.66	1.24
Mugnone 01	216 MG1027	23.69	136.52	173.25	175.90	4.84	1.36	177.09	0.0205	0.44	21.30	22.60	28.18	1.25
Mugnone 01	215 MG1028	18.37	136.52	172.84	175.44	4.42	1.23	176.44	0.0163	0.29	21.07	22.17	30.86	1.39
Mugnone 01	214 MG1029	14.99	136.50	172.28	175.18	4.64	1.20	176.28	0.0157	0.17	17.59	19.23	29.45	1.53
Mugnone 01	213.7	1.00	136.49	172.29	174.90	3.61	0.81	175.57	0.0070	0.01	17.59	20.61	37.76	1.83
Mugnone 01	213.4	1.00	148.41	172.29	174.88	3.97	0.88	175.68	0.0083	0.01	17.57	20.57	37.40	1.82
Mugnone 01	213 MG2030 A	2.62	148.41	172.28	174.87	3.97	0.88	175.68	0.0083	0.03	17.56	20.56	37.40	1.82
Mugnone 01	212 MG2030 B	0.10	148.41	172.25	174.81	4.71	1.00	175.94	0.0116		13.96	17.98	31.52	1.75
Mugnone 01	211.5	1.00	148.41	170.59	172.00	7.56	2.22	174.91	0.0632	0.05	13.95	16.76	19.64	1.17
Mugnone 01	210.9 MG2030 C	1.76	148.41	170.10	171.73	6.52	1.72	173.90	0.0370	0.05	13.95	17.21	22.77	1.32
Mugnone 01	210 MG2030 D	24.00	148.41	169.20	171.53	5.64	1.31	173.15	0.0178	0.47	13.84	15.77	26.31	1.67
Mugnone 01	209 MG1031	20.92	148.40	168.80	171.04	5.36	1.40	172.51	0.0210	0.46	16.78	18.30	27.67	1.51
Mugnone 01	208 MG1032	21.97	148.40	167.94	170.53	6.36	1.51	172.60	0.0246	0.47	12.84	14.86	23.34	1.57
Mugnone 01	207 MG1033	26.57	148.40	167.53	169.90	5.45	1.35	171.41	0.0183	0.48	16.41	17.51	27.23	1.55
Mugnone 01	206 MG1034	26.99	148.39	167.04	169.30	4.66	1.30	170.41	0.0180	0.43	24.05	25.17	31.82	1.26
Mugnone 01	205 MG1035	26.05	148.38	166.51	168.78	3.87	1.13	169.55	0.0143	0.32	30.10	31.33	38.39	1.23
Mugnone 01	204 MG1036	30.90	148.37	166.12	168.46	3.53	0.98	169.10	0.0102	0.30	29.96	30.65	42.07	1.37
Mugnone 01	203 MG1037	27.00	148.36	165.47	168.16	3.44	0.99	168.76	0.0103	0.26	34.48	35.11	43.08	1.23
Mugnone 01	202 MG1038	36.04	150.55	165.07	167.89	3.32	0.92	168.46	0.0090	0.25	33.94	34.87	45.31	1.30
Mugnone 01	201 MG1039	40.99	150.52	164.82	167.58	2.54	0.69	167.91	0.0050	0.19	42.78	43.96	59.18	1.35
Mugnone 01	200 MG2040 A	2.00	150.51	164.91	167.41	2.37	0.63	167.70	0.0042		42.98	44.25	63.58	1.44
Mugnone 01	199 MG2040 B	40.51	150.51	162.85	164.95	5.73	1.27	166.62	0.0197	0.92	12.65	16.59	26.28	1.58
Mugnone 01	198 MG1041	4.78	150.50	161.43	163.95	5.30	1.55	165.39	0.0259	0.12	23.86	24.70	28.39	1.15
Mugnone 01	197 MG2042 A	2.01	150.49	160.35	162.93	2.35	0.63	163.22	0.0042		42.20	44.69	64.06	1.43
Mugnone 01	196 MG2042 B	4.18	150.34	159.67	162.68	2.56	0.72	163.02	0.0059	0.03	41.38	44.81	58.72	1.31
Mugnone 01	195 MG1043	4.97	150.30	159.54	162.55	2.60	0.80	162.87	0.0071	0.04	51.40	52.36	60.24	1.15
Mugnone 01	194 MG2044 A	2.01	150.24	159.71	162.46	2.24	0.64	162.70	0.0046		42.72	45.85	68.92	1.50
Mugnone 01	193 MG2044 B	4.83	150.23	158.89	162.37	2.46	0.73	162.58	0.0064	0.03	42.42	47.01	72.58	1.54
Mugnone 01	192 MG2045 A	2.00	144.24	157.95	161.98	3.41	0.65	162.58	0.0047		13.97	18.99	42.35	2.23
Mugnone 01	191 MG2045 B	4.83	144.23	157.04	159.91	6.07	1.30	161.79	0.0218	0.10	10.20	13.96	23.74	1.70
Mugnone 01	190 MG2046 A	2.00	149.84	156.09	159.09	3.47	0.68	159.70	0.0047	0.01	16.18	19.58	43.13	2.20
Mugnone 01	189 MG2046 B	0.10	149.84	156.07	159.08	3.45	0.67	159.68	0.0046		16.30	19.67	43.48	2.21
Mugnone 01	188 MG2046 C	2.04	149.84	156.05	158.87	3.71	0.75	159.57	0.0059	0.01	16.05	19.21	40.38	2.10
Mugnone 01	187 MG2046 D	21.53	149.84	156.04	158.84	3.05	0.58	159.32	0.0038		17.51	23.11	49.10	2.12
Mugnone 01	186 MG1047	22.31	149.84	150.88	154.19	4.58	1.07	155.26	0.0123	0.22	17.42	20.09	32.69	1.63
Mugnone 01	185 MG1048	24.37	149.84	150.47	153.91	4.17	0.89	154.80	0.0077	0.19	15.91	17.85	35.96	2.01
Mugnone 01	184 MG1049	24.15	150.64	150.07	153.71	4.06	0.90	154.55	0.0083	0.22	17.08	19.28	37.12	1.93
Mugnone 01	183 MG1050	29.30	150.63	150.10	153.49	4.48	0.98	154.51	0.0097	0.24	15.28	17.32	33.65	1.94
Mugnone 01	182 MG1051	24.27	150.63	149.78	153.21	4.09	0.84	154.06	0.0070	0.16	15.25	17.43	36.87	2.11
Mugnone 01	181 MG1052	21.78	150.61	149.69	153.00	3.67	0.82	153.69	0.0065	0.13	18.76	20.37	41.08	2.02
Mugnone 01	180 MG1053	18.00	150.60	149.45	152.87	3.48	0.75	153.49	0.0054	0.08	18.83	20.56	43.31	2.11
Mugnone 01	179 MG1054	13.82	150.51	149.18	152.79	3.15	0.65	153.29	0.0040	0.05	19.42	21.43	47.83	2.23
Mugnone 01	178 MG1055	12.04	150.42	148.88	152.80	2.49	0.54	153.12	0.0028	0.04	26.22	28.77	60.33	2.10
Mugnone 02	177.4	13.56	211.82	148.62	152.80	3.26	0.60	153.34	0.0034	0.05	21.92	25.82	65.02	2.52
Mugnone 02	177.2	1.00	210.84	148.57	152.74	3.30	0.62	153.30	0.0036		21.92	25.71	63.92	2.49
Mugnone 02	177.1	1.75	210.86	148.56	152.74	3.30	0.62	153.30	0.0036	0.01	21.92	25.70	63.83	2.48
Mugnone 02	177 MG1056	21.94	222.34	148.55	152.64	3.60	0.69	153.30	0.0044	0.10	21.92	25.51	61.75	2.42
Mugnone 02	176 MG1057	22.18	223.30	148.92	152.53	3.70	0.75	153.22	0.0050	0.11	24.40	26.21	60.41	2.30
Mugnone 02	175 MG1058	22.21	223.30	148.52	152.42	3.60	0.73	153.08	0.0047	0.08	24.86	26.70	62.04	2.32
Mugnone 02	174 MG1059	18.28	217.24	148.23	152.35	2.70	0.50	152.72	0.0022	0.05	27.30	30.63	80.44	2.63
Mugnone 02	173 MG2060 A	19.30	205.68	148.22	152.25	3.08	0.63	152.73	0.0037		25.81	29.05	66.79	2.30
Mugnone 02	171 MG1061	4.62	205.68	144.04	147.27	5.55	1.25	148.84	0.0150	0.07	18.31	19.98	37.03	1.85
Mugnone 02	170 MG1062	4.64	208.04	143.52	146.84	6.00	1.44	148.67	0.0213	0.10	18.78	20.37	34.69	1.70
Mugnone 02	169 MG1063	4.10	208.89	142.86	146.43	5.75	1.41	148.12	0.0212	0.08	20.94	22.75	36.35	1.60
Mugnone 02	168 MG1064	4.80	210.23	142.63	146.03	5.19	1.16	147.40	0.0133	0.07	19.93	21.63	40.54	1.87
Mugnone 02	167 MG1065	4.56	211.62	142.35	145.73	5.64	1.30	147.35	0.0175	0.08	18.72	20.80	37.53	1.80
Mugnone 02	166 MG1066	4.37	216.44	142.04	145.43	5.42	1.20							

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	164 MG1068	4.44	225.28	141.48	144.52	6.36	1.36	146.58	0.0182	0.08	15.85	17.98	35.40	1.97
Mugnone 02	163 MG1069	21.53	225.90	140.96	144.06	6.16	1.39	145.99	0.0185	0.38	18.31	19.76	36.66	1.86
Mugnone 02	162 MG1070	20.19	225.90	140.75	143.62	5.85	1.33	145.36	0.0170	0.33	19.54	21.14	38.64	1.83
Mugnone 02	161 MG1071	20.28	225.90	140.51	143.23	5.55	1.30	144.81	0.0160	0.39	21.71	22.99	40.67	1.77
Mugnone 02	160 MG1072	18.31	225.90	140.18	142.81	6.04	1.50	144.68	0.0234	0.40	22.69	24.05	37.38	1.55
Mugnone 02	159 MG1073	19.04	225.90	139.80	142.41	5.96	1.42	144.23	0.0201	0.38	21.19	22.65	37.87	1.67
Mugnone 02	158 MG1074	18.52	225.90	139.56	141.99	5.69	1.39	143.64	0.0194	0.34	23.26	24.53	39.71	1.62
Mugnone 02	157 MG1075	18.02	225.89	139.00	141.62	5.44	1.33	143.12	0.0176	0.33	24.22	25.46	41.55	1.63
Mugnone 02	156 MG1076	20.45	227.59	138.61	141.29	5.34	1.34	142.75	0.0187	0.36	25.91	27.16	42.61	1.57
Mugnone 02	155 MG1077	21.68	227.58	138.23	140.91	5.02	1.27	142.19	0.0163	0.31	27.46	28.39	45.37	1.60
Mugnone 02	154 MG1078	22.22	227.57	137.74	140.56	4.63	1.12	141.66	0.0122	0.29	27.94	28.85	49.10	1.70
Mugnone 02	153 MG1079	24.48	227.57	137.61	140.26	5.09	1.20	141.58	0.0136	0.36	24.45	25.54	44.70	1.75
Mugnone 02	152 MG1080	19.50	227.56	136.92	139.91	5.16	1.26	141.27	0.0159	0.31	24.58	25.67	44.06	1.72
Mugnone 02	151 MG1081	21.47	227.56	136.58	139.62	5.35	1.26	141.08	0.0157	0.32	23.00	24.25	42.51	1.75
Mugnone 02	150 MG1082	22.46	227.56	136.27	139.27	5.11	1.20	140.60	0.0143	0.30	23.46	24.81	44.57	1.80
Mugnone 02	149 MG1083	18.43	227.56	135.86	138.96	4.87	1.12	140.17	0.0124	0.22	23.49	24.88	46.72	1.88
Mugnone 02	148 MG1084	20.84	227.56	135.52	138.73	4.72	1.10	139.87	0.0118	0.23	24.54	25.87	48.23	1.86
Mugnone 02	147 MG1085	19.17	227.55	135.17	138.49	4.44	1.02	139.50	0.0100	0.20	25.36	26.66	51.20	1.92
Mugnone 02	146 MG1086	18.81	227.54	134.83	138.30	4.60	1.04	139.38	0.0105	0.22	24.16	25.79	49.52	1.92
Mugnone 02	145 MG1087	17.60	227.52	134.61	138.07	5.07	1.14	139.38	0.0129	0.22	21.98	23.52	44.91	1.91
Mugnone 02	144 MG1088	17.01	227.47	134.44	137.80	4.55	1.11	138.86	0.0121	0.18	25.95	27.30	49.98	1.83
Mugnone 02	143.6	1.50	227.38	133.99	137.60	4.16	0.96	138.48	0.0091	0.01	25.45	27.24	54.62	2.01
Mugnone 02	143.4	2.13	227.40	133.99	137.58	4.19	0.98	138.48	0.0093	0.02	25.42	27.19	54.30	2.00
Mugnone 02	143 MG1089	20.45	249.21	133.99	137.54	4.68	1.09	138.66	0.0118	0.23	25.31	27.06	53.27	1.97
Mugnone 02	142 MG1090	15.24	249.21	133.83	137.31	5.01	1.12	138.59	0.0119	0.15	24.06	25.88	49.74	1.98
Mugnone 02	141 MG1091 A	4.50	249.21	133.71	137.15	5.12	1.00	138.49	0.0088	0.02	21.28	18.78	51.36	2.59
Mugnone 02	138 MG1091 D	14.42	249.21	133.35	136.11	6.68	1.49	138.38	0.0202	0.30	20.16	18.88	38.14	1.98
Mugnone 02	137 MG1092	20.04	249.21	133.43	135.67	5.97	1.49	137.49	0.0213	0.35	25.43	26.23	41.71	1.59
Mugnone 02	136 MG1093	19.79	249.21	133.09	135.06	4.31	1.16	136.01	0.0136	0.27	41.04	41.75	57.84	1.39
Mugnone 02	135 MG1094	19.27	249.20	132.54	134.79	4.25	1.15	135.71	0.0139	0.22	42.44	43.14	58.69	1.36
Mugnone 02	134 MG1095	20.82	249.20	132.45	134.50	3.61	0.95	135.17	0.0087	0.20	46.39	47.07	69.00	1.47
Mugnone 02	133 MG1096	22.66	249.20	132.13	134.29	3.98	1.06	135.09	0.0109	0.31	43.24	43.94	62.66	1.43
Mugnone 02	132 MG1097	23.41	248.19	131.88	133.97	4.38	1.25	134.95	0.0169	0.32	42.78	43.39	56.64	1.31
Mugnone 02	131 MG1098	17.69	248.06	131.18	133.65	4.17	1.03	134.54	0.0102	0.19	35.79	36.56	59.45	1.63
Mugnone 02	130 MG1099	21.41	247.88	130.84	133.46	4.39	1.08	134.44	0.0112	0.29	33.26	34.40	56.48	1.64
Mugnone 02	129 MG1100	15.22	247.65	131.01	133.20	4.40	1.25	134.19	0.0164	0.21	37.69	38.46	56.26	1.46
Mugnone 02	128 MG1101	20.29	248.69	130.42	132.97	3.88	1.02	133.74	0.0107	0.20	37.84	38.89	64.12	1.65
Mugnone 02	127 MG1102	20.40	248.65	130.36	132.79	3.68	0.97	133.48	0.0094	0.19	38.15	39.34	67.62	1.72
Mugnone 02	126 MG1103	22.82	248.35	130.17	132.63	3.58	0.97	133.29	0.0094	0.18	38.64	39.57	69.40	1.75
Mugnone 02	125 MG1104	20.24	247.89	129.54	132.46	3.19	0.80	132.98	0.0063	0.12	38.60	39.93	77.85	1.95
Mugnone 02	124 MG1105	19.35	246.52	129.39	132.35	3.28	0.80	132.90	0.0060	0.11	35.89	37.08	75.47	2.04
Mugnone 02	123 MG1106	20.63	246.45	129.03	132.28	3.13	0.74	132.77	0.0051	0.09	34.98	36.24	79.14	2.18
Mugnone 02	122 MG1107	20.38	266.37	128.58	132.19	2.88	0.60	132.61	0.0032	0.06	35.49	37.19	92.39	2.48
Mugnone 02	121 MG1108	21.34	265.82	128.24	132.15	2.73	0.55	132.53	0.0026	0.06	36.62	38.43	97.25	2.53
Mugnone 02	120 MG1109	18.85	265.64	128.41	132.05	2.92	0.61	132.48	0.0033	0.05	35.10	36.82	90.91	2.47
Mugnone 02	119 MG1110	19.14	264.75	127.72	132.06	2.45	0.48	132.36	0.0019	0.03	39.91	41.67	108.04	2.59
Mugnone 02	118 MG1111	25.53	263.65	127.58	132.04	2.29	0.44	132.31	0.0017	0.05	41.18	43.19	115.11	2.67
Mugnone 02	117 MG1112	17.64	263.41	127.71	132.00	2.28	0.48	132.26	0.0020	0.03	43.92	45.56	115.53	2.54
Mugnone 02	116 MG1113	21.25	262.26	127.27	132.00	2.08	0.40	132.22	0.0014	0.03	43.35	45.29	126.22	2.79
Mugnone 02	115 MG1114	17.66	262.93	126.92	131.97	2.11	0.39	132.19	0.0013	0.03	40.63	42.74	124.81	2.92
Mugnone 02	114 MG1115	15.12	261.91	127.00	131.85	2.50	0.50	132.17	0.0022	0.04	37.09	39.23	104.81	2.67
Mugnone 02	113 MG1116	17.48	260.38	127.07	131.78	2.72	0.56	132.14	0.0028	0.05	35.15	37.44	96.98	2.59
Mugnone 02	112 MG1117	17.08	258.38	127.08	131.69	2.93	0.59	132.11	0.0031	0.05	33.64	36.18	90.45	2.52
Mugnone 02	111 MG1118	23.63	254.17	126.55	131.68	2.73	0.55	132.03	0.0027	0.05	36.66	38.86	97.53	2.51
Mugnone 02	110 MG1119	22.56	253.21	126.41	131.67	2.39	0.45	131.94	0.0017	0.03	42.06	44.77	110.99	2.74
Mugnone 02	109 MG1120 A	3.06	252.90	126.31	131.63	2.15	0.36	131.88	0.0010		30.44	35.36	117.49	3.32
Mugnone 02	108 MG2120 B	3.68	252.86	126.72	131.55	2.49	0.39	131.87	0.0012		23.83	32.25	101.44	3.15
Mugnone 02	107 MG2120 C	3.25	290.70	126.75	130.07	4.53	0.87	131.13	0.0067	0.02	23.06	28.48	64.18	2.25
Mugnone 02	106 MG1120 D	4.71	292.46	126.40	129.98	3.93	0.81	130.79	0.0053	0.03	30.14	32.36	74.37	2.30
Mugnone 02	105.5	1.00	287.28	126.00	129.94	4.00	0.82	130.76	0.0060	0.01	29.48	31.45	71.83	2.28
Mugnone 02	105.4	5.65	287.28	126.00	129.94	3.99	0.84	130.75	0.0063	0.04	30.45	32.34	71.94	2.22
Mugnone 02	105	9.30	291.19	126.00	129.90	4.14	0.86	130.77	0.0066	0.08	29.48	31.36	70.41	2.25
Mugnone 02	104	8.01	291.69	126.45	129.80	4.55	1.02	130.86	0.0097	0.07	31.63	32.98	64.06	1.94
Mugnone 02	103 MG1123	13.61	291.53	126.24	129.69	4.20	0.92	130.59	0.0075	0.09	32.35	33.86	69.42	2.05
Mugnone 02	102 MG1124	21.76	291.90	125.93	129.54	3.66	0.79	130.22	0.0055	0.10	36.08	37.85	79.67	2.14
Mugnone 02	101 MG1125	23.49	291.13	126.32	129.38	2.97	0.66	129.83	0.0039	0.09	47.79	48.95	97.91	2.00
Mugnone 02	100 MG1126	31.77	291.04	126.33	129.31	2.76	0.64	129.69	0.0038	0.15	55.79	57.01	105.54	1.85
Mugnone 02	99 MG1127	36.51	291.01	126.24	129.12	3.24	0.77	129.66	0.0054	0.16	49.50	50.54	89.94	1.78
Mugnone 02	98 MG2128 A	10.83	292.72	126.28	128.93	2.56	0.62	129.27	0.0038		63.66	64.88	114.17	1.76
Mugnone 02	97 MG2128 B	35.20	289.43	122.98	126.76	2.14	0.41	127.00	0.0015	0.10	48.91	51.00	135.13	2.65
Mugnone 02	96 MG1129	32.52	291.44	122.60	126.48	3.45	0.70	127.09	0.0045	0.16	34.34	35.87	84.56	2.36
Mugnone 02	95 MG1130	33.61	291.57	122.24	126.31	3.73	0.78	127.02	0.0056	0.21	32.82	34.32	78.15	2.28
Mugnone 02	94 MG1131	37.94	291.27	121.93	126.09	4.08	0.89	126.94	0.0073	0.24	31.80	33.31	71.32	2.14
Mugnone 02	93 MG1132	33.37	289.98	121.49	125.81	3.46	0.78	126.42	0.0057	0.26	36.84	38.81	83.71	2.16
Mugnone 02	92 MG1133	26.63	289.72	121.03	125.50	5.08	1.02	126.81	0.0098	0.27	22.24	24.83	57.09	2.30
Mugnone 02	91 MG1134	27.59	290.01	120.63	125.19	4.78	1.08	126.35	0.0108	0.27	30.20	32.05	60.70	1.89
Mugnone 02	90 MG1135	28.37	292.36											

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	88 MG1137	36.32	288.31	120.32	124.34	3.55	0.67	124.98	0.0039	0.23	28.00	30.55	81.24	2.66
Mugnone 02	87 MG1138	29.70	289.37	119.75	124.03	5.24	0.97	125.43	0.0087	0.25	18.66	21.62	55.27	2.56
Mugnone 02	86 MG1139	27.31	287.39	119.84	123.67	4.45	0.95	124.68	0.0083	0.22	28.95	30.49	64.64	2.12
Mugnone 02	85 MG1140	28.69	287.17	119.56	123.45	4.48	0.93	124.47	0.0080	0.19	26.94	29.48	64.16	2.18
Mugnone 02	84 MG1141	21.11	278.65	119.16	123.18	3.82	0.77	123.93	0.0054	0.11	28.22	30.51	72.88	2.39
Mugnone 02	83 MG1142	1.40	268.09	119.13	123.07	3.23	0.73	123.61	0.0050	0.01	33.86	36.36	82.87	2.28
Mugnone 02	82.7	1.01	268.12	119.13	123.07	3.24	0.74	123.60	0.0051	0.01	33.86	36.35	82.63	2.27
Mugnone 02	82.4	20.25	268.08	119.13	123.06	3.25	0.74	123.60	0.0051	0.11	33.86	36.33	82.44	2.27
Mugnone 02	82 MG1143	25.58	278.31	118.84	122.90	3.63	0.77	123.57	0.0056	0.12	29.85	32.81	76.71	2.34
Mugnone 02	81 MG1144 A	2.01	273.98	118.79	122.81	3.32	0.60	123.37	0.0035	0.01	25.69	30.69	82.56	2.69
Mugnone 02	80 MG2144 B	5.50	273.98	118.56	122.89	2.61	0.47	123.24	0.0021		31.62	38.17	104.89	2.75
Mugnone 02	79 MG2144 C	2.09	271.69	118.26	122.08	3.21	0.68	122.61	0.0046	0.01	32.32	36.63	84.74	2.31
Mugnone 02	78 MG1144 D	17.35	271.89	118.29	122.02	3.45	0.71	122.63	0.0046	0.08	29.28	32.23	78.88	2.45
Mugnone 02	77 MG1145	20.44	284.41	117.69	121.90	3.65	0.72	122.58	0.0046	0.10	29.39	31.59	78.02	2.47
Mugnone 02	76 MG1146	22.05	284.57	117.54	121.80	3.51	0.75	122.43	0.0052	0.11	35.18	36.97	81.03	2.19
Mugnone 02	75 MG1147	22.19	284.11	117.56	121.67	3.73	0.73	122.38	0.0047	0.11	28.24	30.67	76.09	2.48
Mugnone 02	74 MG1148	23.42	283.45	117.38	121.56	3.66	0.75	122.24	0.0050	0.12	31.64	33.64	77.46	2.30
Mugnone 02	73 MG1149	23.04	282.26	117.21	121.44	3.70	0.78	122.14	0.0053	0.11	31.32	33.21	76.19	2.29
Mugnone 02	72 MG1150	22.38	277.57	117.08	121.34	3.61	0.71	122.00	0.0044	0.09	26.99	29.69	76.92	2.59
Mugnone 02	71 MG1151	26.10	271.06	116.85	121.29	3.34	0.61	121.86	0.0033	0.09	25.19	28.95	81.04	2.80
Mugnone 02	70 MG1152	20.97	274.68	116.74	121.21	3.20	0.66	121.73	0.0039	0.07	32.81	35.60	86.18	2.42
Mugnone 02	69 MG1153	16.94	272.21	116.45	121.23	2.40	0.54	121.50	0.0027	0.04	48.67	51.95	119.42	2.30
Mugnone 02	68 MG1154 A	2.24	269.80	116.40	121.15	2.59	0.50	121.47	0.0021		35.34	38.26	108.05	2.82
Mugnone 02	67.8	0.75	269.79	116.40	121.15	2.59	0.50	121.47	0.0021		35.34	38.25	107.88	2.82
Mugnone 02	67 MG1154 B	4.15	283.06	116.48	120.97	3.11	0.59	121.46	0.0029	0.01	29.44	32.05	91.37	2.85
Mugnone 02	66 MG1154 C	2.93	282.57	116.42	120.99	2.95	0.60	121.42	0.0031	0.01	33.31	35.91	97.22	2.71
Mugnone 02	65 MG1154 D	16.16	280.67	116.37	121.06	2.37	0.46	121.34	0.0018	0.05	38.06	41.83	120.01	2.87
Mugnone 02	64 MG1155	16.92	267.97	116.12	120.79	3.77	0.74	121.51	0.0049	0.11	23.11	26.51	71.63	2.70
Mugnone 02	63 MG1156	12.23	274.86	115.95	120.68	4.45	0.91	121.68	0.0078	0.09	21.08	24.81	62.05	2.50
Mugnone 02	62 MG1157	16.76	279.89	115.97	120.59	4.31	0.82	121.53	0.0063	0.12	21.54	24.90	64.91	2.61
Mugnone 02	61 MG1158	13.53	288.36	115.84	120.45	4.94	0.90	121.69	0.0078	0.11	18.30	21.97	58.32	2.65
Mugnone 02	60 MG1159	12.89	296.32	115.86	120.31	5.38	0.98	121.79	0.0092	0.11	17.76	21.17	55.05	2.60
Mugnone 02	59 MG1160	15.62	302.06	115.54	120.16	5.08	0.90	121.48	0.0076	0.14	18.38	21.89	59.43	2.71
Mugnone 02	58 MG1161	18.85	304.79	116.01	119.99	5.63	1.09	121.60	0.0109	0.17	19.54	22.23	54.16	2.44
Mugnone 02	57 MG1162	19.80	304.77	115.59	119.66	4.63	0.89	120.76	0.0068	0.14	23.69	25.68	65.87	2.56
Mugnone 02	56 MG1163	21.25	304.75	115.24	119.51	4.48	0.90	120.53	0.0076	0.15	26.87	29.19	68.04	2.33
Mugnone 02	55 MG1164	25.84	304.74	115.07	119.29	3.81	0.81	120.02	0.0061	0.16	33.20	35.56	80.06	2.25
Mugnone 02	54 MG1165	23.21	304.74	114.89	119.13	4.01	0.82	119.95	0.0063	0.13	29.17	32.03	76.07	2.38
Mugnone 02	53 MG1166	21.84	304.72	114.73	119.00	3.93	0.76	119.79	0.0051	0.11	28.67	30.36	77.54	2.55
Mugnone 02	52 MG1167	23.70	304.73	114.53	118.87	4.21	0.79	119.78	0.0054	0.21	25.24	27.23	72.44	2.66
Mugnone 02	51 MG1168	22.02	304.72	114.43	118.57	6.05	1.15	120.44	0.0122	0.25	17.91	20.42	50.35	2.47
Mugnone 02	50 MG1169	19.28	306.16	114.32	118.18	5.21	1.09	119.56	0.0110	0.14	24.55	26.31	58.82	2.24
Mugnone 02	49 MG1000	9.76	306.15	113.85	117.77	3.03	0.62	118.24	0.0037		40.93	45.88	101.18	2.21
Mugnone 02	47 MG0980	49.66	305.70	106.02	112.91	1.89	0.27	113.09	0.0007	0.03	31.13	40.43	161.92	4.00
Mugnone 02	46 MG0970	52.15	303.31	106.02	112.88	1.91	0.27	113.06	0.0006	0.14	29.54	37.41	159.11	4.25
Mugnone 02	45 MG0966 A	2.00	260.18	104.96	112.44	3.83	0.56	113.11	0.0046	0.01	12.07	24.53	71.96	2.93
Mugnone 02	44 MG0966 B	0.10	260.17	104.96	112.40	3.71	0.50	113.10	0.0038		11.83	24.24	70.18	2.90
Mugnone 02	43 MG0965 C	2.00	260.17	104.96	110.89	5.11	0.81	112.14	0.0094	0.02	11.36	20.93	52.49	2.51
Mugnone 02	42 MG0965 D	28.98	260.17	104.97	110.86	5.12	0.89	112.06	0.0111	0.24	13.48	23.42	53.56	2.29
Mugnone 02	41 MG0960	42.26	286.24	104.73	110.57	4.04	0.70	111.32	0.0053	0.14	18.56	26.28	74.55	2.84
Mugnone 02	40 MG0950 A	2.29	285.91	105.32	110.61	2.29	0.40	110.88	0.0013		36.80	41.64	124.85	3.00
Mugnone 02	39 MG0950 B	4.16	285.92	105.32	110.60	2.31	0.40	110.87	0.0014		36.70	41.73	123.76	2.97
Mugnone 02	38 MG0930 C	1.12	289.06	105.32	108.92	4.48	0.91	109.78	0.0076	0.01	27.82	30.72	69.52	2.26
Mugnone 02	37 MG0930 D	72.65	287.10	104.60	108.89	4.26	0.88	109.69	0.0080	0.40	27.41	32.38	72.46	2.24
Mugnone 02	36 MG0920	79.80	288.13	103.67	108.53	2.94	0.57	108.96	0.0029	0.46	30.97	34.35	99.57	2.90
Mugnone 02	35 MG0910	133.07	299.75	102.93	108.05	5.14	0.92	109.40	0.0086	0.84	15.54	20.74	58.34	2.81
Mugnone 02	34 MG0900 A	2.44	306.95	100.31	107.14	3.78	0.59	107.87	0.0040	0.01	18.18	26.96	81.10	3.01
Mugnone 02	33 MG0890 B	0.10	306.95	100.31	107.08	3.94	0.61	107.87	0.0044		17.37	26.60	78.00	2.93
Mugnone 02	32 MG0890 C	2.14	306.95	100.31	104.47	8.66	1.74	108.29	0.0369	0.10	13.97	19.24	35.43	1.93
Mugnone 02	31 MG0880 D	104.31	306.95	100.58	104.20	10.39	2.03	109.70	0.0533	3.47	11.09	15.95	29.56	1.85
Mugnone 02	30 MG0870	40.13	306.89	95.77	99.74	6.35	1.14	101.79	0.0133	0.52	15.37	19.49	48.33	2.48
Mugnone 02	29 MG0860	18.37	306.86	95.08	99.14	5.93	1.07	100.93	0.0127	0.23	16.31	22.11	51.76	2.34
Mugnone 02	28 MG0850	28.69	306.84	95.03	98.87	5.70	1.12	100.53	0.0129	0.29	19.99	24.32	53.81	2.21
Mugnone 02	27 MG0840	8.09	303.94	94.42	98.35	4.08	0.90	99.20	0.0076	0.06	32.70	35.50	74.44	2.10
Mugnone 02	26 MG0820	18.82	301.92	94.09	98.28	3.97	0.87	99.08	0.0075	0.15	32.34	37.15	76.12	2.05
Mugnone 02	25 MG0800	69.14	306.72	94.17	98.14	4.28	0.95	99.07	0.0088	0.45	29.44	32.63	71.64	2.20
Mugnone 02	24 MG0790 A	2.05	306.72	92.41	97.70	3.95	0.69	98.49	0.0043	0.01	23.10	27.40	77.65	2.83
Mugnone 02	23 MG0790 B	0.10	306.72	92.41	97.64	4.17	0.70	98.53	0.0042		22.99	22.70	76.40	3.24
Mugnone 02	22 MG0780 C	2.28	306.70	92.41	97.51	4.33	0.74	98.47	0.0048	0.01	24.18	22.67	75.57	3.12
Mugnone 02	21 MG0770 D	76.09	306.70	92.81	97.50	4.19	0.76	98.39	0.0049	0.55	23.62	26.07	73.27	2.81
Mugnone 02	20 MG0760	75.61	306.68	92.12	96.88	5.49	1.00	98.42	0.0095	0.59	17.97	21.73	55.82	2.57
Mugnone 02	19 MG0750	42.15	306.65	91.84	96.11	4.27	0.82	97.05	0.0060	0.21	25.64	28.88	71.74	2.48
Mugnone 02	18 MG0740	23.06	301.77	91.34	95.83	3.64	0.65	96.50	0.0038	0.31	26.15	30.05	82.97	2.76
Mugnone 02	17 MG0730	17.77	280.90	91.07	95.42	6.16	1.36	97.35	0.0232	0.26	20.37	26.91	45.64	1.70
Mugnone 02	16 MG0720	40.86	265.46	90.68	94.86	4.03	0.75	95.68	0.0057	0.18	22.08	27.38	65.89	2.41
Mugnone 02	15 MG0710	20.88	239.58	90.49	94.70	3.27	0.54	95.25	0.0029		19.84	25.38	73.20	2.88
Mugnone 02	14 MG0700	80.78	239.58	84.26	88.19	3.15	0.65	88.70	0.0039	1.74	31.31	33.93	76.02	2.24
Mugnone 02	13 MG0													

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Mugnone 02	12 MG0660	66.99	307.90	75.97	80.15	5.06	1.01	81.45	0.0101	0.42	22.59	26.18	60.88	2.33
Mugnone 02	11 MG0650 A	4.33	306.88	75.43	79.47	2.41	0.53	79.76	0.0025	0.01	53.90	55.19	127.55	2.31
Mugnone 02	10 MG0650 B	0.10	306.91	75.43	79.45	2.42	0.54	79.75	0.0025		53.81	55.10	126.91	2.30
Mugnone 02	9 MG0640 C	6.36	305.53	75.43	79.21	3.12	0.71	79.58	0.0045	0.02	52.08	53.28	114.19	2.14
Mugnone 02	8 MG0630 D	107.52	305.42	74.99	79.28	2.09	0.45	79.46	0.0018	0.55	57.31	61.65	163.94	2.66
Mugnone 02	7 MG0620	129.00	305.44	73.46	78.71	4.10	0.89	79.41	0.0085	1.02	29.02	35.92	82.32	2.29
Mugnone 02	6 MG0610 A	2.34	305.74	72.20	77.85	4.84	0.82	78.89	0.0079	0.02	21.55	30.25	67.48	2.61
Mugnone 02	5 MG0610 B	0.01	305.74	72.20	77.83	4.87	0.82	78.89	0.0079		21.30	29.98	67.05	2.61
Mugnone 02	4 MG0600 C	2.04	305.74	72.20	76.06	7.40	1.37	78.86	0.0224	0.04	13.06	18.94	41.30	2.18
Mugnone 02	3 MG0590 D	308.41	305.73	71.91	76.02	7.45	1.31	78.84	0.0209	4.07	12.23	18.28	41.06	2.25
Mugnone 02	2 MG0580	122.53	305.48	66.56	71.40	4.01	0.76	72.22	0.0055	0.95	25.64	30.07	76.20	2.53
Mugnone 02	1 MG0570		306.05	65.04	70.41	5.27	0.93	71.83	0.0100		17.79	24.98	58.07	2.32
Affluente	3	33.63	9.63	131.76	132.21	3.50	2.07	132.84	0.0796	1.46	8.91	9.01	2.75	0.31
Affluente	2	32.62	9.51	129.78	130.88	1.53	0.72	130.99	0.0075	0.13	13.58	13.86	6.22	0.50
Affluente	1	11.61	9.44	128.35	130.80	0.43	0.15	130.80	0.0003	0.01	27.08	28.20	23.17	0.83
Affluente	0.5	1.00	9.43	128.43	130.76	1.10	0.33	130.80	0.0014		7.61	9.17	9.02	0.98
Bargellino	12 BA1002 D	4.89	0.10	173.13	173.62	0.11	0.07	173.62	0.0002	0.18	4.22	4.39	1.42	0.32
Bargellino	11.96	4.89	6.54	172.76	173.38	3.32	1.62	173.94	0.0745	0.36	4.62	4.86	1.97	0.41
Bargellino	11 BA1003	4.90	7.93	162.82	163.64	3.27	1.47	164.19	0.0612	0.30	4.81	5.14	2.43	0.47
Bargellino	10 BA1004 A	2.50	13.63	158.80	159.84	2.32	0.99	160.12	0.0247	0.36	10.56	10.81	5.87	0.54
Bargellino	9 BA1004 B	1.80	13.63	158.72	159.33	5.93	3.04	161.13	0.2632	0.48	5.93	6.12	2.30	0.38
Bargellino	8.8	2.00	13.63	155.31	156.18	4.62	2.17	157.27	0.1303	0.26	6.39	6.63	2.95	0.45
Bargellino	8.6	2.00	13.63	153.86	155.06	4.14	1.95	155.76	0.1109	0.19	5.09	5.76	3.70	0.64
Bargellino	8.4	2.00	13.35	152.48	154.86	1.06	0.40	154.90	0.0040	0.01	10.72	12.82	15.17	1.18
Bargellino	8.2	2.00	12.71	152.08	154.86	0.92	0.30	154.90	0.0023		8.46	11.32	14.46	1.28
Bargellino	8 BA2005 A	2.00	11.85	151.81	154.88	0.64	0.19	154.90	0.0005		9.38	13.10	18.47	1.41
Bargellino	7 BA2005 B		11.85	151.54	154.89	0.40	0.09	154.90	0.0001		12.09	16.02	29.68	1.85
Caldine	11 CD1001	4.27	13.19	166.28	167.25	4.02	1.74	168.08	0.0470	0.19	5.65	6.03	3.28	0.54
Caldine	10 CD2002 A	2.01	13.18	165.00	166.59	1.77	0.62	166.75	0.0049		8.92	9.61	7.45	0.78
Caldine	9 CD2002 B	7.62	13.17	163.12	166.34	0.76	0.19	166.36	0.0005	0.01	11.33	15.63	21.69	1.39
Caldine	8 CD2002 C	0.05	13.17	163.00	166.32	0.90	0.21	166.35	0.0008		4.99	11.61	16.10	1.39
Caldine	7 CD2002 D	1.02	13.17	163.00	166.31	0.90	0.21	166.35	0.0008		4.99	11.60	16.08	1.39
Caldine	6 CD2002 E	1.02	13.17	163.00	166.30	1.05	0.24	166.35	0.0012		4.12	10.70	13.58	1.27
Caldine	5 CD2002 F	1.02	13.17	163.00	166.30	1.05	0.24	166.34	0.0012	0.01	4.13	10.71	13.60	1.27
Caldine	4 CD2002 G	189.26	13.17	163.00	166.25	2.10	0.57	166.34	0.0092		4.10	10.31	9.79	0.95
Caldine	3 CD2002 H	2.03	13.17	151.48	153.29	2.81	0.73	153.69	0.0129	0.02	3.12	6.26	4.68	0.75
Caldine	2 CD2002 I	3.29	13.17	151.41	153.28	2.22	0.58	153.54	0.0061	0.02	3.91	6.43	5.93	0.92
Caldine	1.9	5.29	13.17	151.41	153.26	2.26	0.59	153.52	0.0064		3.89	6.37	5.82	0.91
Caldine	1	4.87	12.88	148.61	151.30	0.40	0.10	151.31	0.0001		19.87	21.02	32.50	1.55
Caldine	0.5		1.00	148.61	151.30	0.03	0.01	151.30	0.0000		19.87	21.01	32.51	1.55
Capparello	11	0.92	26.08	187.06	188.34	5.98	2.50	190.15	0.0951	0.08	6.13	6.75	4.37	0.65
Capparello	10	2.15	26.08	186.76	187.84	4.59	2.04	188.70	0.0619	0.07	7.19	7.96	6.33	0.80
Capparello	9	0.10	26.08	186.22	187.70	2.52	0.77	188.02	0.0066		9.91	7.00	12.51	1.48
Capparello	8	2.02	26.08	185.70	186.61	4.08	1.36	187.46	0.0217	0.07	8.55	7.00	7.10	0.91
Capparello	7	4.54	26.08	185.55	186.53	4.52	1.67	187.57	0.0435	0.20	6.98	8.41	5.76	0.69
Capparello	5	0.44	25.91	183.61	185.52	2.49	0.58	185.84	0.0058		5.60	9.16	10.41	1.14
Capparello	4	0.92	25.91	182.14	184.21	2.27	0.50	184.47	0.0045		5.55	9.64	11.43	1.19
Capparello	3	0.55	25.91	182.33	184.16	2.40	0.57	184.46	0.0054		6.01	9.54	10.78	1.13
Capparello	2	22.00	5.75	179.97	183.00	0.32	0.06	183.01	0.0001		6.01	12.05	18.19	1.51
Capparello	1		3.00	178.11	183.00	0.02		183.00			40.25	44.46	145.72	3.28
Fossataccio	21 FO1001	4.61	7.20	153.35	153.93	4.06	2.21	154.78	0.0798	0.37	5.15	5.31	1.77	0.33
Fossataccio	20 FO1002	4.53	7.19	149.68	150.68	4.29	1.95	151.56	0.0694	0.40	4.14	4.88	1.85	0.42
Fossataccio	19 FO1003	4.52	11.56	146.97	147.91	3.91	1.78	148.69	0.0480	0.22	6.01	6.31	2.95	0.47
Fossataccio	18 FO1004	4.81	11.55	144.62	145.69	4.45	1.70	146.70	0.0457	0.22	3.73	4.50	2.60	0.58
Fossataccio	17 FO1005	4.65	11.54	142.64	143.62	4.39	1.90	144.61	0.0541	0.25	4.81	5.26	2.63	0.50
Fossataccio	16 FO1006	4.79	11.54	140.17	140.85	6.29	2.92	142.87	0.1352	0.66	3.87	4.24	1.83	0.43
Fossataccio	15 FO1007	4.95	12.24	131.33	132.15	4.70	1.82	133.28	0.0539	0.26	3.83	4.66	2.60	0.56
Fossataccio	14 FO1008	1.99	12.23	128.83	130.81	1.42	0.46	130.91	0.0027	0.01	7.78	8.87	8.78	0.99
Fossataccio	13.4	0.82	12.22	128.70	130.76	1.45	0.47	130.86	0.0030		7.61	8.83	8.65	0.98
Fossataccio 02	13.1	1.00	20.23	128.34	130.76	2.22	0.65	131.01	0.0060		7.60	9.29	9.12	0.98
Fossataccio 02	13 FO1009 A	1.00	20.23	125.65	128.45	4.66	1.36	128.81	0.0366	0.03	3.68	7.49	7.68	1.03
Fossataccio 02	12.7	0.50	20.23	125.62	128.49	3.88	0.98	128.76	0.0230	0.01	4.68	9.64	8.88	0.92
Fossataccio 02	12 FO1009 B	0.10	20.23	125.54	128.49	3.86	0.97	128.73	0.0227		4.97	9.96	9.24	0.93
Fossataccio 02	11 FO2009 C	1.00	20.22	123.21	124.91	4.18	1.28	125.70	0.0359	0.03	3.03	6.42	5.14	0.80
Fossataccio 02	10 FO2009 D	1.89	20.22	123.15	124.88	4.10	1.25	125.64	0.0341	0.06	3.03	6.49	5.24	0.81
Fossataccio 02	9 FO2010 A	1.00	20.26	121.81	124.58	2.61	0.61	124.92	0.0102	0.01	2.82	8.34	7.77	0.93
Fossataccio 02	8 FO2010 B	1.80	20.25	121.79	124.57	2.59	0.60	124.91	0.0100	0.02	2.82	8.37	7.82	0.93
Fossataccio 02	7 FO2010 C	1.00	20.21	121.65	124.53	2.50	0.56	124.85	0.0089	0.01	2.82	8.57	8.10	0.95
Fossataccio 02	6 FO2010 D	0.90	20.21	121.64	124.57	2.27	0.54	124.82	0.0074	0.01	3.33	9.16	9.11	0.99
Fossataccio 02	5 FO2011 A	1.00	18.62	121.60	124.67	1.74	0.40	124.80	0.0036		4.03	10.14	11.83	1.17
Fossataccio 02	4 FO2011 B	113.19	18.62	121.59	124.69	1.72	0.43	124.79	0.0039		6.01	11.87	13.90	1.17
Fossataccio 02	3 FO2011 C	1.00	18.62	119.70	121.30	2.41	0.61	121.60	0.0068	0.01	4.82	8.01	7.72	0.96
Fossataccio 02	2 FO2011 D	36.48	18.62	119.67	121.30	2.38	0.59	121.59	0.0065	1.31	4.82	8.06	7.84	0.97
Fossataccio 02	1 FO1012	22.15	18.62	118.69	119.86	5.75	2.09	121.54	0.0651	0.72	4.18	4.98	3.24	0.65
Fossataccio 02	0.5		0.81	116.57	118.80	0.02	0.01	118.80			23.45	24.21	33.72	1.39
Molina	16 ML1001	20.29	19.12	218.05	218.56	6.61	3.92	220.78	0.2809	3.55	9.60	9.76	2.89	0.30
Molina	15 ML2002	2.72	19.12	213.75	215.24	6.38	1.86	217.31	0.0792	0.20	2.49	4.57	3.00	0.66
Molina	14 ML2003 A	0.44	19.12	212.58	213.73	5.76	2.59	215.28	0.1223	0.04	5.22	6.50	3.46	0.53

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Molina	13 ML2003 B	1.02	19.12	212.15	213.45	3.21	1.04	213.98	0.0172	0.01	5.40	7.25	5.96	0.82
Molina	12 ML2003 C	33.65	19.12	212.11	213.42	2.79	0.79	213.81	0.0071		6.94	5.25	7.96	1.31
Molina	11 ML2003 D	2.04	19.12	209.02	210.58	2.34	0.68	210.86	0.0050	0.03	6.53	5.25	9.18	1.56
Molina	10 ML2003 E	2.77	19.12	208.96	210.51	3.84	1.21	211.26	0.0280	0.08	3.50	6.14	4.98	0.81
Molina	9 ML2004	2.92	19.12	208.00	210.00	4.91	1.20	211.23	0.0445	0.12	2.27	5.71	3.89	0.68
Molina	8 ML1005	2.80	19.12	207.36	208.54	9.45	3.24	213.10	0.2325	0.64	2.31	3.82	2.02	0.53
Molina	7 ML2006	3.80	19.85	203.91	205.03	5.98	2.16	206.76	0.0927	0.31	3.08	5.24	3.41	0.65
Molina	6 ML2007 A	1.01	19.85	202.71	204.37	4.12	1.10	205.15	0.0276	0.02	3.11	6.32	5.07	0.80
Molina	5 ML2007 B	0.10	19.85	202.61	204.33	3.83	0.99	205.01	0.0097		3.18	3.16	5.46	1.72
Molina	4 ML2007 C	1.00	19.85	202.41	203.31	6.96	2.34	205.78	0.0706	0.09	3.17	3.16	2.86	0.90
Molina	3 ML2007 D	4.37	19.85	202.31	203.22	6.90	2.32	205.64	0.1095	0.54	3.18	4.98	2.88	0.58
Molina	2 ML2008	4.51	19.85	199.27	200.37	6.24	1.95	202.35	0.0806	0.36	2.90	5.09	3.18	0.63
Molina	1 ML2009	15.76	19.85	197.17	198.19	6.11	1.93	200.10	0.0777	0.61	3.18	5.21	3.25	0.62
Molina	0.25	1.00	8.18	192.28	197.20	0.12	0.02	197.20	0.0000		21.21	26.11	66.44	2.54
Molina	0.2		3.50	192.23	197.20	0.05	0.01	197.20	0.0000		21.21	26.18	66.59	2.54
Ponticello	23 PN1001	4.99	29.51	149.11	150.26	5.05	1.91	151.57	0.0485	0.24	8.18	8.60	5.84	0.68
Ponticello	22 PN1002 A	3.00	29.71	145.89	148.01	3.83	1.42	148.57	0.0292	0.06	5.74	7.94	8.99	1.13
Ponticello	21 PN2002 B	12.00	29.70	145.50	147.97	3.45	0.76	148.58	0.0128	0.14	3.49	8.42	8.61	1.02
Ponticello	20 PN2002 C	3.00	29.69	145.10	147.86	3.14	0.61	148.36	0.0101	0.03	3.49	8.89	9.45	1.06
Ponticello	19 PN2002 D	4.04	29.68	145.00	147.85	2.99	0.57	148.30	0.0089	0.04	3.50	9.18	9.94	1.08
Ponticello	18 PN2003 A	0.50	27.54	144.70	147.65	3.12	0.58	148.14	0.0109		3.00	8.87	8.81	0.99
Ponticello	17 PN2003 B	1.00	27.49	142.90	146.07	2.92	0.64	146.50	0.0104	0.01	2.99	9.32	9.47	1.02
Ponticello	16 PN2004 A	0.50	27.72	142.87	146.05	2.92	0.63	146.49	0.0102	0.01	3.00	9.32	9.48	1.02
Ponticello	15 PN2004 B	0.60	28.32	142.85	146.01	3.01	0.62	146.47	0.0099	0.01	3.00	9.29	9.42	1.01
Ponticello	14 PN2004 C	0.50	28.85	142.82	145.97	3.07	0.60	146.45	0.0103	0.01	3.00	9.27	9.40	1.01
Ponticello	13 PN2004 D	4.79	29.16	142.80	145.95	3.09	0.59	146.44	0.0104	0.04	3.00	9.28	9.43	1.02
Ponticello	12 PN2005 A	1.17	28.14	142.65	146.08	1.82	0.34	146.25	0.0024		4.52	11.35	15.45	1.36
Ponticello	11 PN2005 B	35.33	28.14	142.64	145.92	2.53	0.49	146.25	0.0061		3.41	9.94	11.14	1.12
Ponticello	8 PN2005 E	2.83	27.78	141.03	142.89	3.74	0.88	143.61	0.0163	0.04	3.99	7.71	7.43	0.96
Ponticello	7 PN1005 F	4.76	27.64	140.70	142.83	3.47	1.03	143.45	0.0159	0.06	6.21	8.23	7.96	0.97
Ponticello	6 PN1006 A	2.00	16.57	139.53	142.82	0.91	0.25	142.84	0.0008		11.87	14.69	22.02	1.50
Ponticello	5 PN2006 B	0.20	16.57	139.49	142.74	1.46	0.31	142.84	0.0021	0.01	3.99	9.37	11.46	1.22
Ponticello	4 PN2006 C	2.06	16.57	139.22	140.68	3.69	1.03	141.38	0.0208	0.07	3.45	5.72	4.49	0.79
Ponticello	3 PN1006 D	1.88	16.56	139.07	140.58	4.70	1.71	141.65	0.0477	0.09	4.15	5.28	3.63	0.69
Ponticello	2 PN1007	4.45	20.98	138.36	139.39	6.83	2.72	141.77	0.1073	0.37	4.77	5.31	3.07	0.58
Ponticello	1 PN1008	11.70	1.66	136.35	138.40	0.11	0.03	138.40	0.0000		9.63	11.59	14.52	1.25
Ponticello	0.5		1.00	134.06	138.40	0.01		138.40			27.84	30.33	76.10	2.51
Pian Mugnone	16 PD1001	36.33	3.41	142.91	143.78	1.45	0.69	143.89	0.0073	0.25	5.20	5.54	2.35	0.42
Pian Mugnone	15 PD1002 A	1.01	2.95	142.71	143.54	1.48	0.60	143.66	0.0064		3.13	4.03	1.99	0.49
Pian Mugnone	14.1	1.00	2.95	134.10	135.17	2.07	0.85	135.29	0.0184	0.02	1.79	3.91	1.90	0.49
Pian Mugnone	14 PD2002 B	22.15	3.05	134.10	135.14	2.18	0.91	135.27	0.0210	0.16	1.78	3.85	1.85	0.48
Pian Mugnone	13 PD2002 C	0.15	3.05	133.60	135.05	1.50	0.55	135.12	0.0082		1.79	4.68	2.59	0.55
Pian Mugnone	12.8	0.10	3.05	133.60	135.05	1.50	0.55	135.12	0.0082		1.79	4.68	2.59	0.55
Pian Mugnone	12 PD2002 D	0.81	3.05	131.85	135.04	0.31	0.06	135.04	0.0001		3.19	9.54	9.93	1.04
Pian Mugnone	11 PD2002 E	0.25	2.45	131.85	135.04	0.26	0.05	135.04	0.0001		3.15	9.51	9.91	1.04
Pian Mugnone	10 PD2002 F	50.36	2.45	131.80	135.04	0.36	0.09	135.04	0.0002		3.17	8.61	7.87	0.91
Pian Mugnone	9 PD2002 G	1.50	2.45	130.65	131.44	2.96	1.56	131.88	0.0538	0.05	2.21	2.86	0.83	0.29
Pian Mugnone	8 PD1002 H	1.97	2.45	130.60	131.33	1.81	0.92	131.50	0.0149	0.03	3.34	3.75	1.36	0.36
Pian Mugnone	7 PD2003 A	5.11	1.53	129.77	131.28	0.41	0.14	131.29	0.0004		4.38	6.11	3.74	0.61
Pian Mugnone	6 PD2003 B	12.49	1.40	129.76	131.25	0.74	0.24	131.28	0.0016		1.88	3.83	1.95	0.51
Pian Mugnone	5 PD2003 C	1.50	1.53	129.13	130.12	1.85	0.70	130.29	0.0165	0.01	1.17	2.48	0.82	0.33
Pian Mugnone	4 PD2003 D	0.95	1.53	129.00	130.12	0.60	0.20	130.14	0.0008		2.83	4.22	2.56	0.61
Pian Mugnone	3 PD2004 A	1.50	0.56	128.96	130.15	0.24	0.08	130.15	0.0001		2.37	4.00	2.39	0.60
Pian Mugnone	2 PD2004 B	5.65	0.56	128.67	130.14	0.40	0.13	130.15	0.0007		1.44	4.03	1.44	0.36
Pian Mugnone	1 PD2004 C	8.77	0.56	128.43	128.93	2.83	1.39	129.34	0.1030	0.45	0.47	1.25	0.20	0.16
Pian Mugnone	0.75	1.00	0.45	126.05	128.40	0.01		128.40			22.62	23.41	30.57	1.31
Pian Mugnone	0.5		0.44	126.03	128.40	0.01		128.40			22.62	23.42	30.63	1.31
Margherita	10 MS1001	4.61	14.10	184.09	185.02	3.98	1.85	185.83	0.0523	0.24	7.30	7.62	3.54	0.46
Margherita	9 MS2002 A	1.00	13.43	182.24	183.77	2.17	0.60	184.01	0.0060		4.51	6.88	6.20	0.90
Margherita	8 MS2002 B	2.51	13.43	179.99	183.00	1.91	0.50	183.08	0.0053	0.02	3.60	9.58	10.79	1.13
Margherita	7 MS2002 C	1.00	13.43	180.09	182.99	2.11	0.58	183.07	0.0070	0.01	3.60	9.38	10.42	1.11
Margherita	6 MS2002 D	0.10	13.43	180.07	182.91	3.24	0.90	183.07	0.0215		3.48	8.26	7.52	0.91
Margherita	5 MS2002 E	1.23	13.43	179.64	180.80	4.84	1.44	182.00	0.0524	0.05	2.40	4.70	2.78	0.59
Margherita	4 MS2002 F	4.77	13.43	179.64	180.66	3.81	1.31	181.40	0.0332	0.16	3.98	6.00	3.53	0.59
Margherita	3 MS2003	4.78	13.42	178.21	179.37	4.31	1.50	180.31	0.0418	0.20	3.71	5.30	3.12	0.59
Margherita	2 MS2005	4.78	13.41	176.37	177.75	2.53	0.98	178.08	0.0150	0.35	5.47	7.05	5.30	0.75
Margherita	1 MS2006	9.76	13.41	176.20	177.18	7.16	2.46	179.79	0.1341	0.65	2.17	3.56	1.87	0.53
Margherita	0.7	0.50	11.97	172.30	176.00	0.21	0.04	176.00	0.0000		18.32	22.94	57.39	2.50
Margherita	0.5		0.50	172.29	176.00	0.01		176.00			18.32	22.95	57.53	2.51

Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]
Capannucce	8.5	0.6	Mugnone 02	105.395	3.1	Fossataccio	20.998	0.0
Capannucce	8.25	0.0	Mugnone 02	103.98	19.0	Fossataccio 02	9.999	0.0
Mugnoncello 01	55.99	3.6	Mugnone 02	82.39	14.2	Fossataccio 02	9.998	0.3
Mugnoncello 01	55.98	5.4	Mugnone 02	81.95	-7.6	Fossataccio 02	5.999	0.0
Mugnoncello 01	51.99	-3.2	Mugnone 02	77.5	-3.6	Fossataccio 02	5.998	1.8
Mugnoncello 01	51.98	-4.7	Mugnone 02	77.4	7.6	Fossataccio 02	1.999	0.0
Mugnoncello 02	46.123	0.0	Mugnone 02	66.9	39.2	Fossataccio 02	1.98	0.0
Mugnoncello 02	45.99	-0.5	Mugnone 02	64.8	-5.9	Molina	15.25	0.0
Mugnoncello 02	34.999	0.0	Mugnone 02	41.9	-26.7	Molina	9.99	0.0
Mugnoncello 02	34.998	-1.2	Mugnone 02	41.8	-0.4	Molina	9.98	0.0
Mugnoncello 02	20.999 MU2026 C	0.0	Mugnone 02	36.9	-19.7	Molina	2.99	0.0
Mugnoncello 02	20.998	0.0	Mugnone 02	36.8	0.0	Molina	2.98	0.0
Mugnoncello 02	13.999 MU2030 C	0.0	Mugnone 02	30.9	2.1	Ponticello	22.999	-1.0
Mugnoncello 02	13.998	0.0	Mugnone 02	30.8	0.0	Ponticello	22.998	0.0
Mugnoncello 02	9.999 MU2035 C	0.0	Mugnone 02	20.9	-4.7	Ponticello	19.999	0.9
Mugnoncello 02	5.998	0.0	Mugnone 02	20.8	0.2	Ponticello	19.998	-4.6
Mugnone 01	241.5	0.0	Mugnone 02	7.9	0.0	Ponticello	6.99	9.5
Mugnone 01	241.25	0.0	Mugnone 02	7.8	0.0	Ponticello	6.89	3.2
Mugnone 01	239.45	0.0	Mugnone 02	2.9	0.0	Ponticello	2.99	-2.6
Mugnone 01	239.4	0.0	Mugnone 02	2.8	0.0	Ponticello	2.89	-2.3
Mugnone 01	223.38	0.0	Affluente	2.999	0.0	Pian Mugnone	15.5	0.1
Mugnone 01	223.25	0.0	Affluente	2.998	0.0	Pian Mugnone	15.4	-0.1
Mugnone 01	209.99	-0.2	Bargellino	11.99	-6.6	Pian Mugnone	11.99	0.3
Mugnone 01	209.98	0.3	Bargellino	11.98	-2.5	Pian Mugnone	11.98	0.3
Mugnone 01	187.5	0.3	Bargellino	11.959	0.3	Pian Mugnone	7.99	0.2
Mugnone 01	187.45	0.0	Caldine	10.99	0.0	Pian Mugnone	7.98	1.0
Mugnone 02	177.39	1.0	Caldine	10.98	0.0	Pian Mugnone	3.99	0.6
Mugnone 02	176.999	-0.7	Caldine	6.99	0.0	Pian Mugnone	3.98	0.4
Mugnone 02	176.998	0.7	Caldine	6.98	0.0	Margherita	9.999	0.6
Mugnone 02	142.5	0.0	Capparelo	10.99	0.0	Margherita	9.998	0.0
Mugnone 02	141.4	0.0	Capparelo	10.98	0.0	Margherita	3.999	0.0
Mugnone 02	137.5	9.2	Capparelo	6.99	0.1	Margherita	3.998	0.0
Mugnone 02	137.4	3.5	Capparelo	6.98	0.1	-	-	-
Mugnone 02	106.4	-2.5	Fossataccio	20.999	0.0	-	-	-

Tabulati verifiche idrauliche
affluenti fiume Arno
Tr = 30 anni

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Anchetta	7 AN1001	34.25	4.93	79.02	79.80	4.53	2.24	80.85	0.0910	2.55	2.60	3.08	1.09	0.35
Anchetta	6 AN1002	13.11	4.93	76.41	77.29	4.11	2.10	78.22	0.0694	0.47	2.68	3.21	1.20	0.37
Anchetta	5 AN2003 A	1.17	5.02	75.56	76.92	1.43	0.42	77.03	0.0016		2.74	5.46	3.50	0.64
Anchetta	4 AN2003 B	2.34	5.02	74.06	76.94	0.69	0.14	76.97	0.0001		2.71	8.46	7.30	0.86
Anchetta	3 AN2004 A	1.17	4.14	74.06	76.96	0.57	0.11	76.97	0.0001		2.64	8.42	7.31	0.87
Anchetta	2 AN2004 B	242.06	3.42	74.06	76.97	0.47	0.10	76.98	0.0001		2.80	8.61	7.41	0.86
Anchetta	1 AN2004 C	1.00	3.42	59.35	60.80	1.54	0.62	60.95	0.0049		2.83	4.21	2.21	0.53
Anchetta	0		3.42	59.35	60.80	1.56	0.62	60.95	0.0050		2.82	4.19	2.19	0.52
Falle	30 FL1001	33.74	51.32	80.27	81.85	3.51	1.33	82.61	0.0156	0.47	16.95	18.03	14.62	0.83
Falle	29 FL1002	25.52	41.06	79.84	81.39	3.05	1.08	81.91	0.0122	0.27	14.93	16.13	13.48	0.88
Falle	28 FL1003	28.04	32.46	79.42	81.11	3.27	1.06	81.76	0.0096	0.34	8.26	9.86	9.93	1.01
Falle	27 FL2004 A	1.05	26.07	79.02	80.78	3.45	0.90	81.39	0.0148	0.01	4.96	8.27	7.55	0.91
Falle	26 FL2004 B	0.10	26.13	79.02	80.77	3.51	0.91	81.40	0.0085		4.92	5.05	7.45	1.47
Falle	25 FL2004 C	1.01	26.13	78.84	80.19	5.08	1.61	81.46	0.0294	0.03	4.91	5.11	5.24	1.02
Falle	24 FL2004 D	7.04	26.14	78.84	80.16	5.24	1.68	81.51	0.0327	0.51	4.91	7.31	5.10	0.70
Falle	23 FL2005 A	2.24	27.33	78.72	79.99	7.02	3.44	82.43	0.1227	0.19	11.01	11.61	7.69	0.66
Falle	22 FL2005 B	2.61	28.59	78.24	79.96	5.16	2.36	80.99	0.0511	0.07	13.42	14.10	11.27	0.80
Falle	21 FL2005 C	11.59	30.07	77.69	79.95	2.35	0.78	80.10	0.0057	0.05	11.16	12.82	18.24	1.42
Falle	20 FL2006 A	1.05	38.71	76.38	79.63	2.47	0.60	80.06	0.0031		5.74	11.61	15.71	1.35
Falle	19 FL2006 B	0.10	38.85	76.38	79.63	2.49	0.61	80.05	0.0031		6.64	11.96	15.82	1.32
Falle	18 FL2006 C	1.00	38.85	76.38	79.53	2.58	0.65	79.99	0.0036		6.43	11.67	15.17	1.30
Falle	17 FL2006 D	15.09	39.74	76.38	79.56	2.45	0.58	79.94	0.0028	0.03	6.18	11.62	16.21	1.39
Falle	16 FL2007 A	1.00	51.31	76.20	79.65	1.30	0.28	79.74	0.0006		14.36	18.94	39.61	2.09
Falle	15 FL2007 B	0.10	51.31	76.20	79.65	1.28	0.27	79.74	0.0006		14.34	19.25	40.11	2.08
Falle	14 FL2007 C	1.00	51.31	73.28	75.12	2.38	0.58	75.42	0.0029		12.09	15.14	21.57	1.42
Falle	13 FL2007 D	4.04	51.31	73.28	75.12	2.38	0.58	75.42	0.0029	0.09	12.09	15.13	21.52	1.42
Falle	12 FL2008 A	2.01	51.31	73.28	75.03	6.01	3.02	77.88	0.0429	0.05	13.32	14.51	8.76	0.68
Falle	11 FL2008 B	0.10	51.31	72.67	74.97	3.10	0.87	75.46	0.0112		12.91	17.79	16.55	0.93
Falle	10 FL2008 C	2.01	51.31	72.33	73.98	3.70	1.13	74.68	0.0187	0.04	12.79	16.33	13.88	0.85
Falle	9 FL1008 D	26.62	51.31	72.63	73.94	4.71	1.66	75.22	0.0258	0.70	11.73	12.40	10.90	0.88
Falle	8 FL1008 E	29.54	51.31	71.74	73.26	5.26	1.78	74.89	0.0268	0.65	9.43	10.11	9.76	0.96
Falle	7 FL1009	35.84	51.29	70.68	72.61	4.70	1.46	73.88	0.0176	0.79	9.25	10.42	10.91	1.05
Falle	6 FL1010	34.54	51.41	70.15	71.83	5.56	1.69	73.52	0.0263	1.17	7.77	8.83	9.25	1.05
Falle	5 FL1011	34.15	51.41	69.16	70.66	6.01	2.02	72.72	0.0418	0.91	8.49	9.39	8.55	0.91
Falle	4 FL1012	26.08	51.41	67.92	69.77	3.42	1.15	70.48	0.0112	0.38	13.91	14.97	15.03	1.00
Falle	3 FL1013	28.10	51.41	67.59	69.39	4.25	1.41	70.44	0.0182	0.47	11.35	12.12	12.10	1.00
Falle	2 FL1014	43.99	51.41	67.01	68.92	4.24	1.31	69.94	0.0157	0.46	10.16	11.38	12.13	1.07
Falle	1 FL1015		45.70	66.08	68.46	2.74	0.79	68.92	0.0050		10.94	12.81	16.70	1.30
Calcinaia	15 CA1001	11.54	19.38	101.26	102.09	4.34	2.05	103.05	0.0625	0.77	9.76	9.96	4.46	0.45
Calcinaia	14.667	11.54	19.31	100.39	101.34	4.46	2.14	102.36	0.0708	0.85	9.78	10.03	4.32	0.43
Calcinaia	14.333	11.54	19.30	99.53	100.53	5.42	2.89	102.44	0.0778	0.79	7.69	7.97	3.56	0.45
Calcinaia	14 CA1002	4.76	19.26	98.66	99.94	4.66	2.51	100.95	0.0636	0.20	8.35	8.79	4.90	0.56
Calcinaia	13.667	4.76	19.25	98.27	99.84	3.51	1.63	100.52	0.0220	0.07	6.96	8.12	6.04	0.74
Calcinaia	13.333	4.76	19.24	97.88	99.79	3.11	1.08	100.49	0.0083	0.04	4.78	7.33	6.19	0.84
Calcinaia	13 CA2003 A	1.00	18.35	97.49	99.75	4.14	1.05	100.91	0.0088	0.01	2.12	6.27	4.43	0.71
Calcinaia	12.5	1.00	17.96	97.35	99.75	2.40	0.67	100.17	0.0046		3.98	7.95	7.49	0.94
Calcinaia	12 CA2003 B	4.11	17.96	97.21	99.92	1.44	0.34	100.04	0.0015		5.84	9.66	12.46	1.29
Calcinaia	11 CA2003 C	2.00	17.96	96.66	97.71	7.63	3.92	101.04	0.2411	0.27	4.14	5.13	2.36	0.46
Calcinaia	10 CA2003 D	8.96	18.01	96.35	97.52	4.68	1.70	98.86	0.0315	0.25	4.04	5.20	3.85	0.74
Calcinaia	9 CA2004	5.50	17.98	95.78	97.33	3.25	1.79	98.03	0.0245	0.08	5.90	7.49	5.54	0.74
Calcinaia	8 CA2005 A	1.00	17.19	95.69	97.28	2.20	0.63	97.56	0.0041		5.57	7.92	7.82	0.99
Calcinaia	7 CA2005 B	1.61	17.19	93.87	95.74	2.74	0.83	96.24	0.0055	0.01	4.23	6.62	6.28	0.95
Calcinaia	6 CA2006 A	1.00	17.30	93.87	95.72	2.91	0.86	96.28	0.0060		3.93	6.47	5.94	0.92
Calcinaia	5 CA2006 B	0.10	17.39	93.87	95.77	2.29	0.54	96.04	0.0026		4.00	7.78	7.59	0.97
Calcinaia	4 CA2006 C	1.00	15.66	93.98	95.22	3.33	0.98	95.72	0.0184	0.02	4.00	6.48	4.95	0.76
Calcinaia	3 CA2006 D	17.88	15.51	93.98	95.20	4.02	1.41	96.11	0.0187	0.19	4.01	5.49	4.12	0.75
Calcinaia	2 CA1007	19.96	12.70	93.26	95.05	1.61	0.52	95.21	0.0025	0.07	6.37	8.48	7.88	0.93
Calcinaia	1 CA1008	8.56	20.56	92.48	94.69	2.45	0.63	95.07	0.0046	0.04	4.46	7.64	8.40	1.10
Calcinaia	0		20.56	92.48	94.64	2.52	0.66	95.04	0.0050		4.46	7.53	8.16	1.08
Ellera	16 EL1001	4.89	7.16	89.86	90.53	4.10	3.08	91.78	0.0768	0.37	6.04	6.44	1.75	0.27
Ellera	15 EL1002 A	1.46	7.10	86.88	88.84	2.35	0.93	89.34	0.0094	0.01	1.93	4.88	3.02	0.62
Ellera	14 EL2002 B	0.10	7.10	86.47	88.96	2.05	0.41	89.18	0.0014		1.47	1.39	3.55	2.49
Ellera	13 EL2002 C	1.01	7.10	85.47	86.27	4.89	1.74	87.49	0.0354	0.04	1.81	1.80	1.45	0.81
Ellera	12 EL2002 D	35.54	7.10	85.47	86.23	4.97	1.89	87.57	0.0415	1.24	1.92	3.34	1.43	0.43
Ellera	11 EL1003	38.30	7.03	84.20	85.00	2.63	1.60	85.45	0.0283	2.56	7.47	7.81	2.67	0.34
Ellera	10 EL1004	45.84	6.82	81.80	82.51	5.15	3.27	84.34	0.1130	2.80	3.88	4.23	1.33	0.33
Ellera	9 EL2005 A	1.01	7.46	78.55	80.00	3.42	0.91	80.60	0.0092	0.01	1.51	4.39	2.18	0.50
Ellera	8 EL2005 B	0.10	7.46	78.55	79.99	3.44	0.93	80.60	0.0095		1.51	4.38	2.17	0.49
Ellera	7 EL2005 C	1.02	7.41	76.95	77.68	5.98	2.56	79.51	0.0899	0.08	1.71	3.15	1.24	0.39
Ellera	6 EL2005 D	21.89	7.38	76.85	77.62	5.66	2.36	79.24	0.0719	1.38	1.71	3.24	1.31	0.40
Ellera	5 EL1006	17.48	7.27	75.38	77.07	4.19	2.48	77.11	0.0744	0.73	10.05	11.10	8.78	0.79
Ellera	4 EL2007 A		7.27	74.31	76.97	2.74	0.91	77.11	0.0093		1.73	7.02	4.31	0.61
Girone	14 GI2001 A	1.02	4.13	94.47	95.76	1.57	0.76	95.87	0.0058		5.09	6.03	3.38	0.56
Girone	13 GI2001 B	0.10	4.13	94.38	95.78	1.13	0.48	95.85	0.0016		5.72	7.58	4.27	0.56
Girone	12 GI2001 C	1.96	4.13	93.85	94.53	2.71	1.05	94.91	0.0135	0.16	2.22	3.58	1.52	0.42
Girone	11 GI1001 D	26.84	4.13	93.85	94.39	5.13	3.16	95.84	0.1603	2.38	2.71	2.95	0.80	0.27
Girone	10 GI1002	17.63	2.49	91.15	91.80	2.17	1.20	92.06	0.0182	0.65	3.15	3.43	1.16	0.34
Girone	9 GI1003	14.19	4.13	90.14	90.70	3.86	2.17	91.60	0.0584	0.43	2.81	3.14	1.07	0.34

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Girone	8 GI1004	9.52	5.67	88.68	90.27	1.77	0.79	90.36	0.0066	0.03	4.88	6.15	4.77	0.77
Girone	7 GI2005 A	0.50	5.67	87.27	90.29	0.93	0.17	90.34	0.0002		2.03	8.04	6.08	0.76
Girone	6 GI2005 B	0.30	5.67	87.28	90.28	1.04	0.22	90.34	0.0047		2.02	18.89	5.43	0.29
Girone	5 GI2005 C	0.50	5.67	87.28	90.28	1.04	0.22	90.34	0.0047		2.02	18.89	5.43	0.29
Girone	4 GI2005 D	4.91	5.67	87.27	90.29	0.93	0.18	90.34	0.0002		2.03	8.04	6.07	0.76
Girone	3 GI2006 A	1.03	5.67	87.27	90.29	0.93	0.17	90.34	0.0002		2.02	8.02	6.06	0.76
Girone	2 GI2006 B	661.97	5.67	87.28	90.24	1.20	0.33	90.35	0.0015		2.02	6.69	4.72	0.71
Girone	1 GI2006 C	1.00	5.67	53.82	56.05	1.93	0.64	56.33	0.0049		2.14	5.16	2.95	0.57
Girone	0		5.67	53.82	56.05	1.93	0.64	56.33	0.0050		2.13	5.15	2.93	0.57
Montalbano	10 MO1001	26.76	2.62	87.12	87.55	5.62	3.72	89.21	0.2500	3.48	1.95	2.15	0.47	0.22
Montalbano	9 MO2002 A	1.00	2.62	83.61	84.11	1.91	0.86	84.30	0.0104	0.01	2.70	3.72	1.37	0.37
Montalbano	8 MO2002 B	0.10	2.62	83.61	84.10	1.95	0.88	84.30	0.0114		2.70	2.70	1.34	0.50
Montalbano	7 MO2002 C	2.42	2.62	82.99	83.37	2.61	1.37	83.71	0.0282	0.22	2.70	2.70	1.00	0.37
Montalbano	6 MO1002 D	4.94	2.62	82.58	83.15	4.72	2.83	84.29	0.1524	0.75	1.94	2.26	0.55	0.25
Montalbano	5 MO1003	4.98	2.62	78.92	79.42	4.58	2.87	80.52	0.1411	0.73	2.13	2.37	0.57	0.24
Montalbano	4 MO1004	4.58	2.62	75.34	75.78	5.47	3.89	77.55	0.2228	0.93	2.03	2.22	0.49	0.22
Montalbano	3 MO2005 A	1.00	2.81	69.48	72.94	0.40	0.07	72.95	0.0000		2.05	8.96	6.97	0.78
Montalbano	2 MO2005 B	132.81	2.41	69.48	72.95	0.38	0.07	72.96	0.0000		2.04	2.00	6.98	3.47
Montalbano	1 MO2005 C	1.00	2.41	53.12	54.57	2.21	0.60	54.81	0.0065	0.01	1.20	1.26	1.41	0.87
Montalbano	0		2.41	53.12	54.61	1.65	0.55	54.79	0.0050		1.20	3.51	1.46	0.41
Pontanico	4 PO2001	27.95	0.42	101.12	101.80	0.80	0.35	101.83	0.0015	0.03	0.84	2.05	0.52	0.25
Pontanico	3 PO2002 A	1.02	0.42	101.00	101.77	0.73	0.31	101.80	0.0010		0.83	2.20	0.58	0.26
Pontanico	2 PO2002 B	41.05	0.39	101.02	101.77	0.74	0.32	101.80	0.0014		0.82	2.09	0.52	0.25
Pontanico	1 PO2002 C	0.11	0.39	90.27	90.90	0.85	0.53	90.94	0.0050		1.43	1.96	0.45	0.23
Pontanico	0		0.39	90.27	90.90	0.86	0.53	90.94	0.0050		1.43	1.95	0.45	0.23
Romena	7	30.11	1.94	101.97	102.42	4.93	3.44	103.72	0.2273	4.07	1.78	2.00	0.39	0.20
Romena	6	16.89	1.94	97.85	98.37	3.53	2.07	99.19	0.0599	0.83	1.43	1.97	0.55	0.28
Romena	5	6.36	1.62	97.03	97.62	2.82	2.02	98.07	0.0556	0.21	1.57	2.10	0.62	0.30
Romena	4	0.87	1.08	96.54	97.52	1.48	0.91	97.60	0.0099	0.01	1.86	2.82	1.06	0.38
Romena	3	53.89	1.08	96.52	97.52	1.54	0.79	97.59	0.0114		1.69	2.77	0.99	0.36
Romena	2	1.01	1.08	87.90	88.29	4.42	2.81	89.29	0.2157	0.12	0.80	1.24	0.24	0.20
Romena	1	1.72	1.08	87.80	88.19	2.12	1.20	88.42	0.0234	0.02	1.32	2.08	0.51	0.24
Romena	0		1.08	87.60	88.17	1.45	0.62	88.28	0.0050		1.32	2.44	0.74	0.31
Sambre	62 SA1001	4.64	54.37	91.55	94.83	2.01	0.41	95.05	0.0020	0.01	10.46	15.26	27.45	1.80
Sambre	61 SA1002	4.05	30.13	90.74	95.09	0.88	0.16	95.14	0.0003		9.16	15.07	34.27	2.27
Sambre	60 SA2003 A	1.11	7.20	90.06	95.15	0.17	0.03	95.15	0.0000		8.95	18.02	42.95	2.38
Sambre	59 SA2003 B	3.77	7.20	90.06	95.15	0.19	0.03	95.15	0.0000		8.94	17.91	38.52	2.15
Sambre	58 SA2003 C	1.18	7.18	89.96	91.63	1.47	0.65	91.72	0.0038		6.26	8.52	6.03	0.71
Sambre	57 SA2003 D	9.66	7.18	89.88	91.66	0.76	0.25	91.68	0.0006	0.05	8.57	9.77	10.79	1.10
Sambre	56 SA2004	8.18	43.78	89.35	91.53	3.54	1.05	92.23	0.0104	0.09	8.39	11.19	12.36	1.10
Sambre	55 SA2005	6.08	50.22	89.19	91.17	5.57	1.73	93.08	0.0282	0.16	6.17	8.15	9.01	1.10
Sambre	54 SA2006	7.64	52.96	88.93	90.87	5.16	1.51	92.47	0.0226	0.18	6.52	8.79	10.27	1.17
Sambre	53 SA2007	8.90	61.55	88.45	90.39	5.13	1.31	91.74	0.0170	0.15	6.83	9.98	11.99	1.20
Sambre	52 SA2008	9.49	63.27	87.59	89.95	4.63	1.06	91.05	0.0107	0.10	6.52	10.14	13.67	1.35
Sambre	51 SA2009	4.93	63.49	87.11	89.68	4.59	1.07	90.76	0.0121	0.06	6.37	9.84	13.83	1.41
Sambre	50.857	4.93	64.71	86.97	89.63	4.50	1.09	90.73	0.0107	0.05	6.76	10.43	14.37	1.38
Sambre	50.714	4.93	64.71	86.83	89.56	4.34	1.07	90.63	0.0094	0.04	6.89	10.73	14.92	1.39
Sambre	50.571	4.93	64.71	86.70	89.50	4.14	1.02	90.51	0.0082	0.04	7.01	11.05	15.63	1.41
Sambre	50.429	4.93	64.71	86.56	89.44	3.92	0.94	90.35	0.0070	0.03	7.13	11.37	16.53	1.45
Sambre	50.286	4.93	64.71	86.42	89.38	3.67	0.85	90.18	0.0058	0.03	7.25	11.71	17.62	1.50
Sambre	50.143	4.93	64.71	86.28	89.35	3.39	0.74	90.03	0.0046	0.02	7.37	12.11	19.08	1.58
Sambre	50 SA2011 A	1.65	64.71	86.15	89.36	3.08	0.62	89.91	0.0034		7.50	12.65	20.98	1.66
Sambre	49 SA2011 B	41.16	64.71	82.89	85.19	2.88	0.67	85.65	0.0036	0.50	11.03	14.63	22.49	1.54
Sambre	48 SA2012	40.20	64.71	82.59	84.60	5.69	1.48	86.41	0.0211	0.66	6.51	9.44	11.38	1.21
Sambre	47 SA2013	34.56	65.50	81.41	83.76	3.77	1.32	84.67	0.0119	0.43	11.76	14.62	17.37	1.19
Sambre	46 SA2014	25.03	65.50	80.97	83.35	5.01	1.24	84.84	0.0128	0.24	6.30	10.69	13.07	1.22
Sambre	45 SA2015	20.67	65.49	80.29	83.00	4.12	0.85	83.87	0.0062	0.23	6.56	10.81	15.91	1.47
Sambre	44 SA2016	24.41	66.12	80.11	82.61	6.99	1.43	85.11	0.0164	0.40	3.85	8.68	9.47	1.09
Sambre	43 SA2017	8.14	64.08	79.75	81.99	5.80	1.33	83.71	0.0167	0.13	5.42	9.74	11.06	1.13
Sambre	42.8	8.14	65.47	79.59	81.85	5.62	1.25	83.46	0.0144	0.11	5.49	9.86	11.66	1.18
Sambre	42.6	8.14	68.23	79.43	81.64	4.96	1.42	83.13	0.0132	0.10	8.57	13.64	13.77	1.01
Sambre	42.4	8.14	68.08	79.27	81.44	4.22	1.19	82.54	0.0106	0.07	9.51	14.13	16.14	1.14

Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]
Anchetta	6.5	0.5	Calcinaia	10.4	0.4	Pontanico	3.5	0.0
Anchetta	6.4	1.3	Calcinaia	6.5	0.0	Pontanico	3.4	0.0
Falle	29.5	0.0	Calcinaia	6.4	-0.2	Romena	6.5	0.0
Falle	29.4	25.3	Calcinaia	3.5	-2.4	Romena	6.4	0.9
Falle	24.5	0.0	Calcinaia	3.4	-5.4	Sambre	61.92	16.1
Falle	24.4	-12.8	Ellera	15.5	-5.4	Sambre	61.9	17.6
Falle	17.5	-12.8	Ellera	15.4	-5.4	Sambre	60.8	31.3
Falle	17.4	-12.4	Ellera	12.5	-5.4	Sambre	56.9	-32.2
Falle	13.5	0.0	Ellera	12.4	0.0	Sambre	56.8	-25.7
Falle	13.4	0.0	Ellera	6.5	0.0	Sambre	37.5	-0.5
Falle	9.5	0.0	Ellera	6.4	0.0	Sambre	37.4	2.4
Falle	9.4	3.0	Montalbano	9.5	0.0	Sambre	18.5	2.0
Calcinaia	14.9	1.3	Montalbano	9.4	0.0	Sambre	18.45	0.2
Calcinaia	14.85	0.0	Montalbano	6.5	0.0	Sambre	10.5	-0.1
Calcinaia	10.5	-0.3	Montalbano	6.4	0.0	Sambre	10.45	0.0

**Tabulati verifiche idrauliche
affluenti fiume Arno
Tr = 200 anni**

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Anchetta	7 AN1001	34.25	8.50	79.02	79.97	5.46	2.45	81.49	0.1010	2.51	3.08	3.66	1.56	0.43
Anchetta	6 AN1002	13.11	8.49	76.41	77.56	4.36	2.03	78.61	0.0554	0.37	3.45	4.14	2.01	0.49
Anchetta	5 AN2003 A	1.17	7.92	75.56	77.29	1.82	0.48	77.46	0.0020		2.74	6.19	4.51	0.73
Anchetta	4 AN2003 B	2.34	7.92	74.06	77.24	0.98	0.18	77.29	0.0002		2.71	9.05	8.10	0.89
Anchetta	3 AN2004 A	1.17	5.49	74.06	77.29	0.67	0.12	77.31	0.0001		2.64	9.09	8.19	0.90
Anchetta	2 AN2004 B	242.06	3.82	74.06	77.31	0.46	0.09	77.33	0.0001		2.80	9.30	8.38	0.90
Anchetta	1 AN2004 C	1.00	3.82	59.35	60.87	1.58	0.62	61.03	0.0049		2.96	4.41	2.42	0.55
Anchetta	0		3.82	59.35	60.87	1.60	0.63	61.03	0.0050		2.95	4.39	2.40	0.55
Falle	30 FL1001	33.74	83.03	80.27	82.22	3.91	1.34	83.12	0.0153	0.44	18.87	20.48	21.24	1.04
Falle	29 FL1002	25.52	63.26	79.84	81.81	3.12	1.06	82.36	0.0107	0.24	20.07	21.76	20.68	0.95
Falle	28 FL1003	28.04	46.41	79.42	81.59	3.34	0.98	82.27	0.0080	0.32	9.01	11.22	14.03	1.25
Falle	27 FL2004 A	1.05	39.42	79.02	81.28	3.92	0.90	82.08	0.0152	0.01	5.01	9.32	10.05	1.08
Falle	26 FL2004 B	0.10	39.66	79.02	81.27	4.00	0.91	82.09	0.0076		5.05	5.05	9.94	1.96
Falle	25 FL2004 C	1.01	39.66	78.84	81.28	3.90	0.94	82.00	0.0084	0.01	5.12	5.11	10.63	2.07
Falle	24 FL2004 D	7.04	39.67	78.84	81.28	3.91	0.95	82.00	0.0085	0.04	5.10	9.72	10.60	1.09
Falle	23 FL2005 A	2.24	41.93	78.72	81.25	1.76	0.56	81.39	0.0026		16.70	19.41	27.24	1.40
Falle	22 FL2005 B	2.61	43.56	78.24	81.27	1.43	0.39	81.37	0.0013		15.97	19.00	31.83	1.67
Falle	21 FL2005 C	11.59	44.38	77.69	81.26	1.36	0.28	81.37	0.0007	0.02	11.16	15.45	32.93	2.13
Falle	20 FL2006 A	1.05	60.12	76.38	80.85	2.65	0.51	81.36	0.0021		5.74	14.03	22.66	1.61
Falle	19 FL2006 B	1.00	60.65	76.38	80.92	2.33	0.55	81.33	0.0019		9.33	15.69	26.11	1.66
Falle	18 FL2006 C	1.00	60.65	76.38	80.36	2.86	0.68	80.96	0.0030		8.16	14.07	21.20	1.51
Falle	17 FL2006 D	15.09	64.08	76.38	80.29	3.09	0.61	80.90	0.0030	0.03	6.18	13.08	20.73	1.58
Falle	16 FL2007 A	1.00	66.06	76.20	80.54	1.28	0.24	80.64	0.0004		14.73	21.10	52.80	2.50
Falle	15 FL2007 B	0.10	66.87	76.20	80.54	1.27	0.23	80.63	0.0004		14.42	21.08	52.95	2.51
Falle	14 FL2007 C	1.00	66.87	73.28	75.42	2.65	0.61	75.80	0.0030		12.22	15.77	25.25	1.60
Falle	13 FL2007 D	4.04	67.85	73.28	75.40	2.72	0.62	75.79	0.0032	0.07	12.22	15.72	24.98	1.59
Falle	12 FL2008 A	2.01	71.30	73.28	75.33	5.62	2.33	77.69	0.0334	0.04	13.32	15.12	12.82	0.85
Falle	11 FL2008 B	0.10	72.04	72.67	75.29	3.49	0.88	75.91	0.0114		12.91	19.05	20.62	1.08
Falle	10 FL2008 C	2.01	72.04	72.33	74.28	4.06	1.14	75.12	0.0186	0.04	12.92	17.62	17.76	1.01
Falle	9 FL1008 D	26.62	73.30	72.63	74.25	5.04	1.63	75.70	0.0234	0.64	12.42	13.34	14.59	1.09
Falle	8 FL1008 E	29.54	77.72	71.74	73.64	5.68	1.81	75.62	0.0250	0.63	11.14	12.02	13.68	1.14
Falle	7 FL1009	35.84	80.17	70.68	73.03	5.29	1.54	74.69	0.0176	0.82	10.84	12.36	15.15	1.23
Falle	6 FL1010	34.54	81.45	70.15	72.21	6.59	1.81	74.65	0.0280	1.17	8.34	9.79	12.35	1.26
Falle	5 FL1011	34.15	81.45	69.16	71.04	6.80	2.08	73.73	0.0404	0.88	9.63	10.81	11.98	1.11
Falle	4 FL1012	26.08	81.45	67.92	70.17	3.90	1.18	71.09	0.0114	0.39	15.74	17.12	20.87	1.22
Falle	3 FL1013	28.10	81.44	67.59	69.78	4.77	1.47	71.13	0.0184	0.50	13.57	14.54	17.06	1.17
Falle	2 FL1014	43.99	81.31	67.01	69.28	5.09	1.42	70.78	0.0174	0.49	10.81	12.36	15.97	1.29
Falle	1 FL1015		60.76	66.08	68.79	2.99	0.77	69.34	0.0050		10.94	13.47	20.31	1.51
Calcinaia	15 CA1001	11.54	31.11	101.26	102.25	5.13	2.13	103.59	0.0617	0.76	10.21	10.61	6.06	0.57
Calcinaia	14.667	11.54	30.58	100.39	101.49	5.28	2.24	102.91	0.0696	0.85	10.22	10.65	5.79	0.54
Calcinaia	14.333	11.54	30.46	99.53	100.75	5.56	2.92	102.71	0.0778	0.68	8.98	9.51	5.48	0.58
Calcinaia	14 CA1002	4.76	30.10	98.66	100.31	4.26	2.12	101.15	0.0406	0.13	9.20	10.09	8.18	0.81
Calcinaia	13.667	4.76	29.55	98.27	100.25	3.28	1.43	100.96	0.0153	0.06	7.44	9.19	9.00	0.98
Calcinaia	13.333	4.76	29.29	97.88	100.21	3.59	1.06	101.16	0.0091	0.05	4.78	8.15	8.16	1.00
Calcinaia	13 CA2003 A	1.00	27.21	97.49	100.16	5.14	1.21	101.99	0.0112	0.01	2.12	7.08	5.29	0.75
Calcinaia	12.5	1.00	26.42	97.35	100.15	2.91	0.76	100.80	0.0057		3.98	8.76	9.09	1.04
Calcinaia	12 CA2003 B	4.11	26.42	97.21	100.37	1.75	0.38	100.55	0.0019		5.84	10.56	15.09	1.43
Calcinaia	11 CA2003 C	2.00	26.42	96.66	97.98	7.62	3.70	101.11	0.1984	0.23	5.02	6.17	3.60	0.58
Calcinaia	10 CA2003 D	8.96	26.52	96.35	97.84	5.10	1.68	99.49	0.0289	0.21	4.38	5.92	5.20	0.88
Calcinaia	9 CA2004	5.50	26.16	95.78	97.68	3.46	1.40	98.44	0.0177	0.06	5.90	8.18	7.57	0.93
Calcinaia	8 CA2005 A	1.00	23.83	95.69	97.63	2.44	0.64	97.99	0.0040		5.57	8.62	9.77	1.13
Calcinaia	7 CA2005 B	1.61	23.83	93.87	96.31	2.75	0.82	96.82	0.0051	0.01	4.96	7.97	8.88	1.11
Calcinaia	6 CA2006 A	1.00	24.07	93.87	96.27	2.96	0.85	96.87	0.0057		4.46	7.69	8.20	1.07
Calcinaia	5 CA2006 B	0.10	24.25	93.87	96.37	2.43	0.51	96.67	0.0022		4.01	8.99	10.00	1.11
Calcinaia	4 CA2006 C	1.00	22.48	93.98	95.48	3.78	0.99	96.20	0.0196	0.02	4.00	7.01	6.01	0.86
Calcinaia	3 CA2006 D	17.88	22.48	93.98	95.47	4.38	1.41	96.65	0.0170	0.18	4.29	6.09	5.22	0.86
Calcinaia	2 CA1007	19.96	18.52	93.26	95.33	1.99	0.58	95.51	0.0033	0.08	6.37	9.03	9.65	1.07
Calcinaia	1 CA1008	8.56	25.31	92.48	94.98	2.62	0.64	95.42	0.0047	0.04	4.46	8.20	9.66	1.18
Calcinaia	0		25.30	92.48	94.92	2.69	0.66	95.39	0.0050		4.46	8.10	9.42	1.16
Ellera	16 EL1001	4.89	12.24	89.86	90.67	4.62	3.08	92.14	0.0768	0.37	6.97	7.51	2.65	0.35
Ellera	15 EL1002 A	1.46	12.22	86.88	89.47	2.88	0.88	90.32	0.0087	0.01	1.93	6.14	4.24	0.69
Ellera	14 EL2002 B	0.10	11.16	86.47	89.73	2.46	0.44	90.04	0.0014		1.47	1.39	4.68	3.26
Ellera	13 EL2002 C	1.01	11.16	85.47	86.52	5.87	1.83	88.28	0.0358	0.04	1.81	1.80	1.91	1.06
Ellera	12 EL2002 D	35.54	11.17	85.47	86.48	5.84	1.96	88.35	0.0410	1.41	1.96	3.84	1.91	0.50
Ellera	11 EL1003	38.30	10.86	84.20	85.07	3.32	1.89	85.78	0.0395	2.53	8.26	8.67	3.27	0.38
Ellera	10 EL1004	45.84	10.13	81.80	82.65	5.16	3.63	84.52	0.1069	2.64	6.51	6.95	2.10	0.33
Ellera	9 EL2005 A	1.01	11.56	78.55	80.49	3.94	0.91	81.30	0.0085	0.01	1.52	5.39	2.93	0.54
Ellera	8 EL2005 B	0.10	11.56	78.55	80.49	3.96	0.92	81.29	0.0087		1.52	5.37	2.92	0.54
Ellera	7 EL2005 C	1.02	11.54	76.95	78.17	5.86	2.45	79.74	0.0781	0.07	1.71	4.15	2.09	0.50
Ellera	6 EL2005 D	21.89	11.53	76.85	78.15	5.58	2.30	79.54	0.0677	0.77	1.71	4.30	2.22	0.52
Ellera	5 EL1006	17.48	11.47	75.38	77.92	1.15	0.59	77.95	0.0029	0.03	12.42	14.51	18.12	1.25
Ellera	4 EL2007 A		10.53	74.31	77.81	1.82	0.35	77.99	0.0009		1.73	8.72	5.78	0.66
Girone	14 GI2001 A	1.02	7.73	94.47	97.04	1.34	0.67	97.08	0.0034		5.24	8.70	10.08	1.16
Girone	13 GI2001 B	0.10	7.72	94.38	97.04	1.03	0.46	97.08	0.0012		5.72	10.10	11.47	1.14
Girone	12 GI2001 C	1.96	7.72	93.85	94.70	4.11	1.43	95.56	0.0235	0.18	2.22	3.91	1.88	0.48
Girone	11 GI1001 D	26.84	7.72	93.85	94.52	6.46	3.61	96.93	0.1588	2.43	3.24	3.54	1.19	0.34
Girone	10 GI1002	17.63	7.32	91.15	92.42	3.91	2.09	92.73	0.0515	0.55	6.56	7.10	3.93	0.55
Girone	9 GI1003	14.19	7.44	90.14	92.37	3.36	1.87	92.41	0.0429	0.31	5.97	8.57	9.50	1.11

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Girone	8 GI1004	9.52	11.05	88.68	92.35	1.11	0.38	92.38	0.0014	0.01	5.19	10.42	15.45	1.48
Girone	7 GI2005 A	0.50	11.01	87.27	92.32	1.08	0.17	92.38	0.0002		2.03	12.09	10.19	0.84
Girone	6 GI2005 B	0.30	11.01	87.28	92.31	1.16	0.20	92.38	0.0038		2.02	22.94	9.52	0.41
Girone	5 GI2005 C	0.50	11.01	87.28	92.31	1.16	0.20	92.38	0.0038		2.02	22.94	9.52	0.41
Girone	4 GI2005 D	4.91	11.01	87.27	92.32	1.08	0.17	92.38	0.0002		2.03	12.09	10.18	0.84
Girone	3 GI2006 A	1.03	11.02	87.27	92.32	1.08	0.17	92.38	0.0002		2.02	12.08	10.16	0.84
Girone	2 GI2006 B	661.97	11.02	87.28	92.25	1.25	0.31	92.40	0.0013		2.02	10.73	8.79	0.82
Girone	1 GI2006 C	1.00	11.02	53.82	56.89	2.21	0.67	57.29	0.0050		2.75	6.94	4.99	0.72
Girone	0		11.02	53.82	56.88	2.22	0.67	57.29	0.0050		2.74	6.93	4.97	0.72
Montalbano	10 MO1001	26.76	6.05	87.12	87.73	7.01	3.93	90.38	0.2467	3.43	2.52	2.83	0.86	0.30
Montalbano	9 MO2002 A	1.00	6.03	83.61	84.48	2.55	0.87	84.81	0.0099	0.01	2.71	4.45	2.36	0.53
Montalbano	8 MO2002 B	0.10	6.03	83.61	84.47	2.58	0.89	84.81	0.0105		2.71	2.70	2.34	0.87
Montalbano	7 MO2002 C	2.42	6.03	82.99	83.57	3.87	1.63	84.34	0.0347	0.23	2.70	2.70	1.56	0.58
Montalbano	6 MO1002 D	4.94	6.03	82.58	83.34	6.05	3.16	85.30	0.1528	0.75	2.55	2.98	1.00	0.33
Montalbano	5 MO1003	4.98	6.03	78.92	79.60	6.04	3.26	81.60	0.1448	0.73	2.66	3.00	1.00	0.33
Montalbano	4 MO1004	4.58	6.03	75.34	76.00	5.98	3.73	78.17	0.1988	0.90	2.88	3.17	1.01	0.32
Montalbano	3 MO2005 A	1.00	4.58	69.48	73.32	0.61	0.10	73.33	0.0001		2.05	9.70	7.73	0.80
Montalbano	2 MO2005 B	132.81	2.55	69.48	73.33	0.34	0.06	73.34	0.0000		2.04	2.00	7.76	3.85
Montalbano	1 MO2005 C	1.00	2.55	53.12	54.61	2.27	0.61	54.87	0.0066	0.01	1.20	1.26	1.46	0.90
Montalbano	0		2.55	53.12	54.65	1.68	0.55	54.85	0.0050		1.20	3.61	1.51	0.42
Pontanico	4 PO2001	27.95	0.84	101.12	101.97	1.25	0.49	102.07	0.0027	0.07	0.85	2.41	0.67	0.28
Pontanico	3 PO2002 A	1.02	0.84	101.00	101.91	1.20	0.47	102.00	0.0023		0.84	2.48	0.70	0.28
Pontanico	2 PO2002 B	41.05	0.66	101.02	101.96	0.97	0.37	102.02	0.0018		0.82	2.48	0.68	0.27
Pontanico	1 PO2002 C	0.11	0.66	90.27	91.04	0.97	0.54	91.10	0.0050		1.77	2.40	0.68	0.28
Pontanico	0		0.66	90.27	91.04	0.97	0.54	91.10	0.0050		1.76	2.40	0.68	0.28
Romena	7	30.11	3.44	101.97	102.53	5.60	3.53	104.24	0.2154	4.06	2.23	2.50	0.61	0.25
Romena	6	16.89	3.44	97.85	98.55	4.22	2.13	99.77	0.0622	0.78	1.52	2.35	0.82	0.35
Romena	5	6.36	2.66	97.03	97.81	2.82	1.75	98.37	0.0382	0.14	1.75	2.55	0.94	0.37
Romena	4	0.87	1.24	96.54	97.73	1.21	0.67	97.78	0.0053		2.12	3.34	1.48	0.44
Romena	3	53.89	1.24	96.52	97.73	1.28	0.62	97.78	0.0061		2.01	3.30	1.38	0.42
Romena	2	1.01	1.24	87.90	88.33	4.47	2.66	89.35	0.1996	0.11	0.80	1.32	0.28	0.21
Romena	1	1.72	1.24	87.80	88.24	2.17	1.13	88.48	0.0198	0.02	1.32	2.17	0.57	0.26
Romena	0		1.24	87.60	88.22	1.53	0.63	88.34	0.0050		1.32	2.53	0.81	0.32
Sambre	62 SA1001	4.64	88.71	91.55	95.08	3.03	0.60	95.51	0.0042	0.02	10.46	15.75	30.00	1.91
Sambre	61 SA1002	4.05	40.51	90.74	95.59	1.07	0.19	95.65	0.0003		9.16	16.06	38.80	2.42
Sambre	60 SA2003 A	1.11	8.03	90.06	95.67	0.17	0.03	95.67	0.0000		8.95	19.06	47.59	2.50
Sambre	59 SA2003 B	3.77	8.03	90.06	95.67	0.19	0.03	95.67	0.0000		8.94	18.95	43.16	2.28
Sambre	58 SA2003 C	1.18	8.02	89.96	92.97	1.12	0.40	92.99	0.0016		6.26	11.20	14.42	1.29
Sambre	57 SA2003 D	9.66	7.78	89.88	92.98	0.64	0.19	92.98	0.0003	0.08	8.72	12.47	22.27	1.79
Sambre	56 SA2004	8.18	85.31	89.35	92.23	4.69	1.07	93.48	0.0097	0.08	8.39	12.58	18.19	1.45
Sambre	55 SA2005	6.08	84.14	89.19	91.90	6.28	1.58	94.42	0.0237	0.14	6.17	9.62	13.53	1.41
Sambre	54 SA2006	7.64	87.80	88.93	91.65	5.73	1.40	93.75	0.0191	0.15	6.52	10.34	15.33	1.48
Sambre	53 SA2007	8.90	104.16	88.45	91.28	5.77	1.21	92.98	0.0131	0.11	6.84	11.76	18.07	1.54
Sambre	52 SA2008	9.49	105.54	87.59	90.94	5.26	1.01	92.35	0.0087	0.08	6.52	12.12	20.10	1.66
Sambre	51 SA2009	4.93	105.17	87.11	90.73	5.13	0.98	92.08	0.0089	0.04	6.37	11.94	20.51	1.72
Sambre	50.857	4.93	107.14	86.97	90.68	4.99	1.00	92.07	0.0083	0.04	6.77	12.53	21.48	1.71
Sambre	50.714	4.93	107.11	86.83	90.62	4.82	0.97	91.98	0.0076	0.04	6.89	12.85	22.20	1.73
Sambre	50.571	4.93	107.06	86.70	90.56	4.64	0.93	91.86	0.0068	0.03	7.01	13.18	23.08	1.75
Sambre	50.429	4.93	107.01	86.56	90.51	4.43	0.87	91.71	0.0060	0.03	7.13	13.51	24.14	1.79
Sambre	50.286	4.93	106.92	86.42	90.47	4.20	0.80	91.54	0.0052	0.02	7.26	13.88	25.48	1.84
Sambre	50.143	4.93	106.86	86.28	90.46	3.92	0.72	91.39	0.0042	0.02	7.38	14.32	27.23	1.90
Sambre	50 SA2011 A	1.65	106.59	86.15	90.48	3.63	0.63	91.27	0.0033		7.50	14.89	29.38	1.97
Sambre	49 SA2011 B	41.16	106.49	82.89	85.95	3.45	0.69	86.62	0.0036	0.45	11.03	16.15	30.87	1.91
Sambre	48 SA2012	40.20	106.49	82.59	85.41	6.40	1.42	87.78	0.0182	0.54	6.52	11.05	16.64	1.51
Sambre	47 SA2013	34.56	107.76	81.41	84.58	3.99	1.06	85.56	0.0085	0.34	11.77	16.27	27.03	1.66
Sambre	46 SA2014	25.03	107.73	80.97	84.18	5.87	1.21	86.28	0.0113	0.22	6.31	12.37	18.36	1.48
Sambre	45 SA2015	20.67	107.72	80.29	83.83	5.04	0.90	85.13	0.0061	0.23	6.56	12.48	21.38	1.71
Sambre	44 SA2016	24.41	103.79	80.11	83.38	8.35	1.49	86.96	0.0164	0.38	3.85	10.22	12.43	1.22
Sambre	43 SA2017	8.14	94.41	79.75	82.61	6.56	1.29	84.81	0.0146	0.11	5.42	10.97	14.38	1.31
Sambre	42.8	8.14	97.34	79.59	82.48	6.44	1.24	84.61	0.0130	0.10	5.49	11.12	15.12	1.36
Sambre	42.6	8.14	102.20	79.43	82.21	5.48	1.35	84.08	0.0124	0.09	8.57	14.77	18.64	1.26
Sambre	42.4	8.14	103.78	79.27	82.01	4.81	1.13	83.44	0.0098	0.06	9.51	15.27	21.57	1.41
Sambre	42.2	8.14	97.06	79.11	81.82	3.86	0.85	82.68	0.0062	0.04	10.45	15.78	25.16	1.59
Sambre	42 SA2018 A	1.03	89.94	78.95	81.71	2.97	0.60	82.18	0.0033		11.38	16.52	30.26	1.83
Sambre	41 SA2018 B	22.64	89.94	75.46	78.64	2.49	0.45	78.95	0.0015	0.08	11.37	17.72	36.13	2.04
Sambre	40 SA2019 A	1.09	100.12	74.69	78.45	3.89	0.89	79.45	0.0059	0.01	10.18	15.26	25.72	1.69
Sambre	39 SA2019 B	0.10	101.13	74.69	78.39	5.09	0.95	80.01	0.0069		5.52	12.37	19.87	1.61
Sambre	38 SA2019 C	2.18	101.13	75.06	77.75	6.71	1.34	80.05	0.0154	0.03	5.85	10.83	15.08	1.39
Sambre	37 SA2019 D	11.42	101.13	75.06	77.36	4.62	1.12	78.54	0.0120	0.11	10.87	14.03	21.88	1.56
Sambre	36 SA1020	20.25	101.12	75.03	77.08	3.09	0.91	77.61	0.0076	0.14	20.69	21.93	32.68	1.49
Sambre	35 SA1021	22.04	101.12	74.47	76.94	2.61	0.93	77.32	0.0060	0.10	28.93	29.93	40.46	1.35
Sambre	34 SA1022	17.28	100.81	73.45	76.88	2.35	0.64	77.22	0.0027	0.05	21.20	23.05	42.85	1.86
Sambre	33 SA1023	16.13	98.36	73.27	76.80	2.53	0.69	77.21	0.0029	0.06	19.07	21.45	38.92	1.81
Sambre	32 SA0001	5.12	95.39	73.05	76.60	4.14	0.84	77.65	0.0047	0.02	7.72	12.71	23.04	1.81
Sambre	31 SA0002	8.16	95.89	73.05	76.53	2.96	0.61	77.04	0.0028		12.12	15.88	32.44	2.04
Sambre	30 SA0003	32.46	95.89	72.03	75.22	3.87	0.97	76.19	0.0075	0.16	11.22	14.62	24.75	1.69
Sambre	29 SA0004	2.91	83.18	71.10	74.99	3.15	0.59	75.59	0.0023		7.56	13.84	26.39	1.91
Sambre	28 SA0005	3.82	83.14	70.61	72.99	6.81	1.71	75.44	0.0245	0.11	6.24	9.69	12.67	1.31

Reach	River Station	L Chnl [m]	Q Tot [m³/s]	Ch El [m slm]	WS El [m slm]	Vel Tot [m/s]	Froude XS	EG El [m]	EG Slope [m/m]	Frc Loss [m]	Top W [m]	WP Tot [m]	Area [m²]	Hydr R [m]
Sambre	27 SA0006	4.73	96.66	70.09	72.59	7.39	1.97	75.59	0.0344	0.14	7.16	10.38	14.19	1.37
Sambre	26 SA0007	4.21	109.63	69.45	72.28	4.02	0.93	73.10	0.0074	0.03	11.57	15.47	29.59	1.91
Sambre	25 SA0008	4.15	106.24	69.14	72.17	5.47	1.43	73.51	0.0166	0.06	10.72	14.10	23.38	1.66
Sambre	24 SA0009	2.70	105.39	68.44	72.32	2.48	0.66	72.50	0.0041		23.25	28.95	58.61	2.02
Sambre	23 SA0010	23.00	105.39	67.84	72.30	3.12	0.74	72.43	0.0055	0.15	23.23	31.72	70.55	2.22
Sambre	22 SA0011	13.76	103.85	67.30	72.30	3.42	1.01	72.42	0.0074	0.08	22.99	27.75	73.48	2.65
Sambre	21 SA0012 A	0.60	100.68	67.24	72.25	3.25	0.75	72.42	0.0040		15.53	22.40	61.05	2.72
Sambre	19 SA0013 C	0.71	100.68	66.99	70.18	3.41	0.76	70.84	0.0039		12.84	16.07	29.54	1.84
Sambre	18 SA0013 D	2.27	100.68	66.97	70.17	3.29	0.75	70.81	0.0038	0.01	13.61	16.92	30.60	1.81
Sambre	17 SA0014	29.07	100.68	66.88	70.19	2.58	0.57	70.59	0.0025	0.05	16.23	20.01	39.08	1.95
Sambre	16 SA0015	19.66	100.68	66.49	70.24	1.78	0.36	70.42	0.0010	0.02	20.52	27.31	56.58	2.07
Sambre	15 SA0016	25.54	98.93	65.84	70.25	1.65	0.30	70.40	0.0007	0.02	17.13	24.11	60.14	2.49
Sambre	14 SA0017	16.89	95.64	65.53	70.14	2.17	0.42	70.41	0.0013	0.02	14.27	21.47	44.50	2.07
Sambre	13 SA0018 A	0.67	98.02	65.52	70.02	2.34	0.47	70.37	0.0013		13.66	20.57	46.87	2.04
Sambre	12 SA0018 B	0.10	86.01	65.50	69.93	2.39	0.54	70.28	0.0018		13.47	21.66	41.76	1.67
Sambre	11 SA0019 C	0.62	98.07	65.37	67.91	5.25	1.11	69.32	0.0107	0.01	7.86	12.33	18.67	1.51
Sambre	10 SA0019 D	13.40	98.39	65.35	67.90	5.26	1.11	69.31	0.0107	0.15	7.86	12.32	18.70	1.52
Sambre	9 SA0020 A	0.65	99.02	65.20	67.64	4.45	0.91	68.64	0.0119	0.01	9.14	14.01	22.25	1.59
Sambre	8 SA0020 B	0.10	99.02	65.19	67.63	4.46	0.92	68.64	0.0072		9.13	14.00	22.23	1.59
Sambre	7 SA0021 C	1.41	99.02	64.82	67.14	4.56	1.02	68.21	0.0093	0.02	9.33	13.98	21.70	1.55
Sambre	6 SA0021 D	31.71	99.02	64.80	67.13	4.56	1.02	68.19	0.0144	0.28	9.33	13.99	21.74	1.55
Sambre	5 SA0022 A	1.12	99.02	63.69	66.67	2.70	0.64	67.10	0.0034	0.01	15.18	19.01	36.62	1.93
Sambre	4 SA0022 B	0.10	99.02	63.69	66.59	3.30	0.79	67.19	0.0059		13.61	17.40	30.01	1.72
Sambre	3 SA0023 C	0.99	99.02	63.14	65.73	4.74	1.31	66.99	0.0149	0.01	13.09	15.53	20.89	1.35
Sambre	2 SA0023 D	15.58	99.02	63.14	65.64	4.17	1.20	66.66	0.0108	0.12	15.18	17.38	23.75	1.37
Sambre	1 SA0024		99.02	62.87	65.40	3.14	0.78	65.95	0.0050		17.59	19.36	31.51	1.63

Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]	Tronco	Lat Structure	s [m³/s]
Anchetta	6.5	0.5	Calcinaia	10.4	0.4	Pontanico	3.5	0.0
Anchetta	6.4	1.3	Calcinaia	6.5	0.0	Pontanico	3.4	0.0
Falle	29.5	0.0	Calcinaia	6.4	-0.2	Romena	6.5	0.0
Falle	29.4	25.3	Calcinaia	3.5	-2.4	Romena	6.4	0.9
Falle	24.5	0.0	Calcinaia	3.4	-5.4	Sambre	61.92	16.1
Falle	24.4	-12.8	Ellera	15.5	-5.4	Sambre	61.9	17.6
Falle	17.5	-12.8	Ellera	15.4	-5.4	Sambre	60.8	31.3
Falle	17.4	-12.4	Ellera	12.5	-5.4	Sambre	56.9	-32.2
Falle	13.5	0.0	Ellera	12.4	0.0	Sambre	56.8	-25.7
Falle	13.4	0.0	Ellera	6.5	0.0	Sambre	37.5	-0.5
Falle	9.5	0.0	Ellera	6.4	0.0	Sambre	37.4	2.4
Falle	9.4	3.0	Montalbano	9.5	0.0	Sambre	18.5	2.0
Calcinaia	14.9	1.3	Montalbano	9.4	0.0	Sambre	18.45	0.2
Calcinaia	14.85	0.0	Montalbano	6.5	0.0	Sambre	10.5	-0.1
Calcinaia	10.5	-0.3	Montalbano	6.4	0.0	Sambre	10.45	0.0