COMUNE DI MASSA

Provincia di Massa Carrara

PROGETTO:

STUDIO IDROLOGICO E IDRAULICO PER REVISIONE DELLA PERICOLOSITA' IDRAULICA DEI PRINCIPALI CORSI D'ACQUA NEL COMUNE DI MASSA

OGGETTO:

PROFILI LONGITUDINALI ALLO STATO ATTUALE
FIUME FRIGIDO, FOSSO BRUGIANO A-B-C, FOSSO DI MEZZO A-B-C,
FOSSO SILCIA A-B-C, FOSSO LODOLINA, FOSSO CONNETTORE 1-2,
FOSSO TORNABUONI, FOSSO DALMINE, FOSSO BECARO

TAVOLA:	REV:	DATA:	SCALA:	NUMERO COMMESSA:	NOME FILE:
2.1	01	Maggio 2010	VARIE	L523	Tavola_2_1.pdf

PHYSIS INGEGNERIA PER L'AMBIENTE
Via Bonifacio Lupi, 1
50129 - Firenze

PROGETTISTA:
Dott. Ing. David Settesoldi

COLLABORATORI:
Dott. Ing. Andrea Badiani
Dott. Silvia Angelini

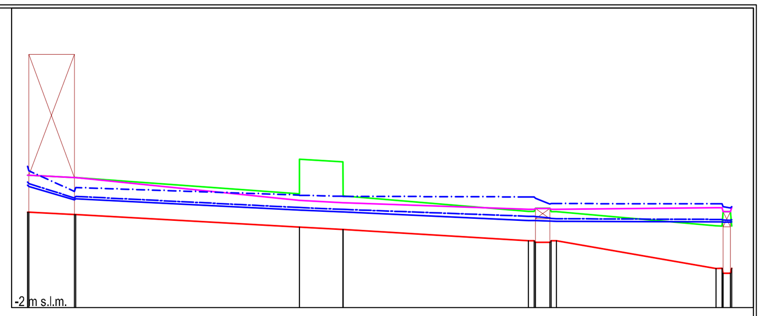
REV.	DATA	DESCRIZIONE MODIFICHE
02		
01	07/05/10	SECONDA EMISSIONE
00	05/02/09	PRIMA EMISSIONE

LEGENDA

- Argine dx
- Argine sx
- Alveo
- Ponte
- Portata di verifica - TR=20 anni
- Portata di verifica - TR=30 anni
- Portata di verifica - TR=200 anni

Fosso Becaro

Scala distanze 1:5000
Scala quote 1:200



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BEa009A	1.08	0.0	2.28	2.28	1.95	2.06	2.56
	1.00	38.0	2.20	2.20	1.48	1.54	1.75
BEa0083	0.60	220.0	1.68	1.46	1.15	1.23	1.63
	0.52	255.0	2.71	1.38	1.09	1.17	1.59
BEa007	0.16	405.2	1.10	1.17	0.81	0.95	1.57
	0.11	422.6	1.21	1.20	0.79	0.89	1.34
BEa003	-0.74	556.9	0.64	1.23	0.77	0.85	1.35
	-0.90	568.5	1.10	1.10	0.76	0.82	1.22

Distanze parziali [m]: 37.0 | 181.0 | 35.0 | 150.0 | 129.2

Fosso Dalmine

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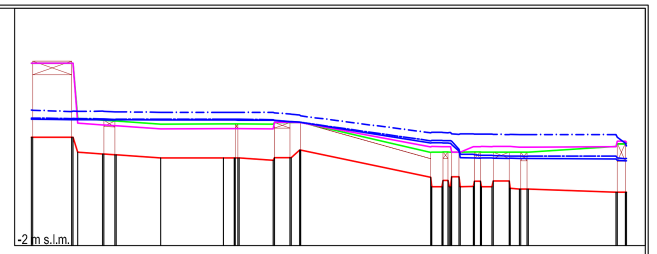
Scala quote 1:200



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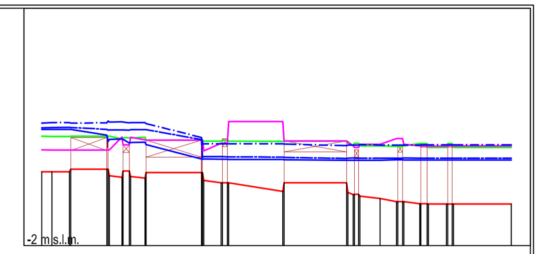
DAa012A	1.50	0.0	3.90	3.90	2.09	2.12	2.38
DAa011A	1.51	32.5	3.90	3.90	2.07	2.10	2.33
	0.96	57.5	2.05	1.90	2.07	2.10	2.35
	0.94	68.5	2.03	1.88	2.07	2.08	2.32
	0.84	104.5	1.93	1.78	2.06	2.09	2.31
DAa010	0.84	155.2	1.93	1.78	2.06	2.09	2.31
	0.84	166.9	1.93	1.78	2.06	2.08	2.31
DAa009D	0.76	195.5	1.93	1.78	2.05	2.07	2.31
	0.84	209.2	1.98	1.98	2.01	2.01	2.26
DAa008C	0.21	322.9	1.01	1.19	1.32	1.39	1.65
	0.11	333.0	1.03	1.20	1.32	1.39	1.66
	0.23	345.9	1.02	1.02	1.06	1.11	1.60
	-0.09	357.4	1.03	1.20	0.84	0.95	1.61
DAa005C	-0.10	372.6	1.02	1.20	0.83	0.92	1.60
	0.09	386.4	1.02	1.20	0.82	0.89	1.59
	-0.17	400.8	1.02	1.18	0.81	0.89	1.58
DAa002A	-0.27	472.9	1.20	1.20	0.80	0.89	1.59

Distanze parziali [m]: 31.5 | 36.0 | 50.7 | 105.1 | 71.0

Fosso Silcia - ramo a

Scala distanze 1:5000
Scala quote 1:200



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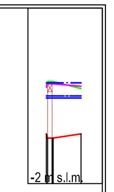
SIa014	0.39	0.0	1.53	1.10	1.75	1.81	1.96
	0.39	22.5	1.53	1.09	1.75	1.82	1.98
SIa012D	0.47	52.9	1.53	1.09	1.57	1.76	1.97
	0.20	65.0	1.45	1.51	1.45	1.74	2.00
	0.18	83.7	1.51	1.42	1.34	1.75	1.98
SIa010CA	0.36	129.4	1.41	1.41	0.80	1.43	1.49
	0.03	145.3	1.37	1.31	0.79	0.87	1.29
SIa008A	-0.25	195.4	1.37	2.01	0.78	0.86	1.29
SIa006A	0.03	247.0	1.38	1.39	0.76	0.82	1.23
	-0.40	257.6	1.23	1.28	0.76	0.83	1.26
	-0.48	274.0	1.23	1.28	0.76	0.83	1.25
	-0.58	287.4	1.20	1.46	0.77	0.83	1.25
SIa003B	-0.65	306.1	1.30	1.23	0.76	0.83	1.25
	-0.65	327.8	1.17	1.22	0.76	0.83	1.26
SIa001	-0.65	380.2	1.17	1.23	0.77	0.83	1.26

Distanze parziali [m]: 44.7 | 44.0 | 50.6 | 46.7

Fosso Silcia - ramo b

Scala distanze 1:5000
Scala quote 1:200



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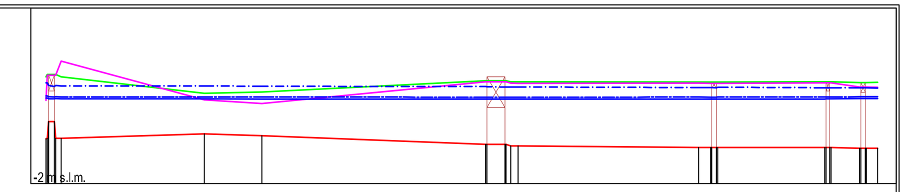
SIb003A	-0.39	0.0	1.17	1.12	0.76	0.83	1.26
	-0.40	27.9	1.07	1.15	0.76	0.83	1.26

Fosso Silcia - ramo c

Scala distanze 1:5000
Scala quote 1:200

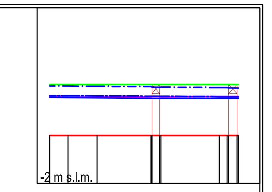


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
SIc009	-0.55	0.0	1.46	0.69	0.76	0.83	1.26
	-0.53	12.2	1.45	1.96	0.74	0.80	1.16
SIc007	-0.40	127.9	0.92	0.70	0.74	0.80	1.16
	-0.45	174.6	0.96	0.59	0.74	0.80	1.15
SIc005A	-0.73	355.6	1.33	1.29	0.73	0.79	1.14
	-0.73	371.1	1.33	1.29	0.73	0.79	1.12
	-0.78	381.7	1.29	1.25	0.73	0.79	1.12
SIc002	-0.84	527.9	1.28	1.25	0.73	0.80	1.10
	-0.83	538.5	1.29	1.24	0.73	0.79	1.10
SIc001E	-0.83	629.9	1.29	1.26	0.73	0.80	1.10
	-0.86	658.0	1.27	1.12	0.75	0.80	1.10
	-0.86	672.5	1.27	1.12	0.75	0.81	1.09

Distanze parziali [m]: 115.7 | 46.7 | 181.0 | 146.1 | 86.7

Fosso Lodolina

Scala distanze 1:5000
Scala quote 1:200

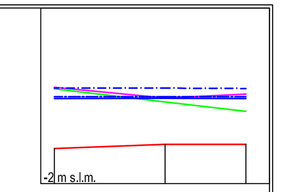


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
LOa005	-0.45	0.0	1.20	0.81	0.78	0.84	1.15
	-0.45	14.7	1.20	0.81	0.77	0.83	1.14
	-0.45	38.3	1.20	0.81	0.77	0.83	1.14
LOa002A	-0.45	81.8	1.20	0.80	0.75	0.82	1.13
LOa001	-0.45	137.1	1.20	0.81	0.75	0.80	1.10
	-0.45	151.5	1.20	0.81	0.75	0.80	1.08

Distanze parziali [m]: 43.5 | 47.3

Fosso Connettore 1

Scala distanze 1:5000
Scala quote 1:200

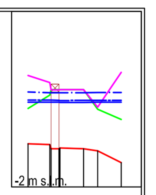


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
C1a003	-0.87	0.0	1.06	1.11	0.75	0.81	1.09
C1a002	-0.73	89.5	0.64	0.77	0.75	0.81	1.09
C1a001	-0.73	154.9	0.34	0.90	0.75	0.81	1.07

Distanze parziali [m]: 89.5 | 65.4

Fosso Connettore 2

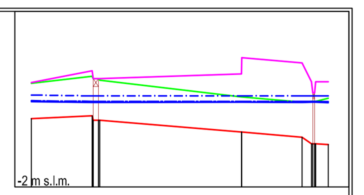
Scala distanze 1:5000
Scala quote 1:200



Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
C2a005	-0.61	0.0	0.54	1.60	0.75	0.81	1.07
	-0.63	17.6	0.97	1.38	0.74	0.81	1.05
C2a001	-0.76	44.9	1.15	1.14	0.74	0.80	1.04
	-0.83	56.2	0.51	0.58	0.74	0.80	1.06
	-1.22	75.2	0.18	1.71	0.74	0.80	1.06

Fosso Tornabuoni

Scala distanze 1:5000
Scala quote 1:200

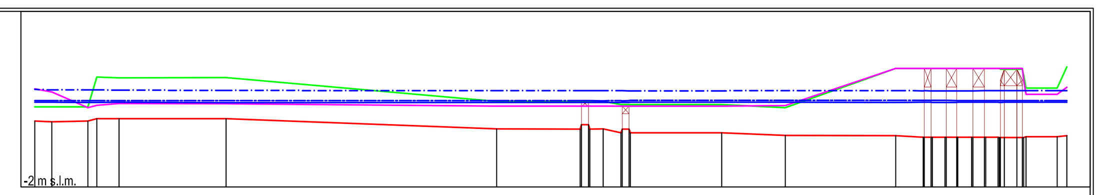


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
TOa005	0.21	0.0	1.35	1.38	0.76	0.79	0.97
TOa004C	0.30	49.1	1.58	1.76	0.73	0.77	0.94
TOa0022	-0.23	169.8	0.91	1.66	0.74	0.77	0.95
TOa002A	-0.40	218.7	0.74	2.01	0.74	0.77	0.95
	-0.60	228.8	0.77	1.05	0.74	0.76	0.95
	-0.63	239.8	0.87	1.41	0.73	0.76	0.95

Distanze parziali [m]: 49.1 | 114.5 | 48.7

Fosso di Mezzo - ramo a

Scala distanze 1:5000
Scala quote 1:200

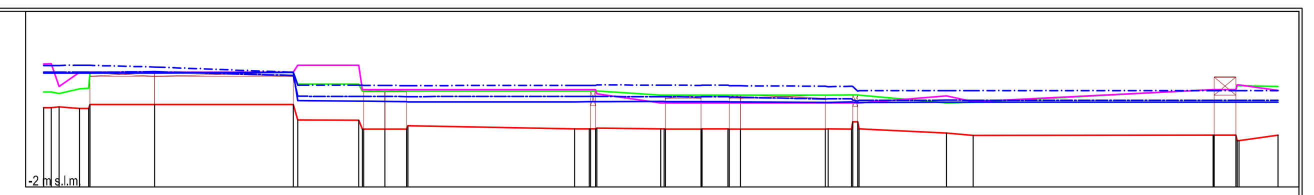


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
MEa014	0.14	0.0	0.59	1.18	0.74	0.79	1.16
	0.11	13.7	0.59	1.08	0.74	0.79	1.14
MEa010	0.13	43.0	0.59	0.56	0.74	0.79	1.14
	0.21	68.2	1.53	0.70	0.74	0.79	1.13
MEa009	0.21	154.7	1.54	0.69	0.72	0.79	1.12
MEa008	-0.12	373.6	0.77	0.61	0.73	0.79	1.12
MEa007A	-0.13	441.1	0.77	0.62	0.73	0.79	1.11
	-0.12	459.8	0.77	0.61	0.73	0.79	1.11
	-0.25	474.2	0.67	0.62	0.73	0.79	1.11
MEa006	-0.25	555.8	0.67	0.61	0.74	0.80	1.11
	-0.33	607.0	0.57	0.63	0.74	0.80	1.11
MEa004A	-0.35	696.4	1.83	1.83	0.74	0.80	1.11
	-0.40	718.6	1.83	1.83	0.74	0.80	1.11
MEa004L	-0.40	736.2	1.83	1.83	0.74	0.80	1.11
	-0.40	746.7	1.83	1.83	0.74	0.80	1.11
	-0.40	757.8	1.83	1.83	0.74	0.80	1.11
	-0.40	768.2	1.83	1.83	0.74	0.80	1.11
	-0.40	779.2	1.84	1.83	0.74	0.80	1.11
	-0.40	794.4	1.81	1.83	0.74	0.79	1.11
MEa002	-0.38	827.1	1.20	1.00	0.74	0.80	1.12

Distanze parziali [m]: 86.5 | 218.9 | 67.6 | 74.0 | 51.3 | 89.4

Fosso di Mezzo - ramo b

Scala distanze 1:5000
Scala quote 1:200

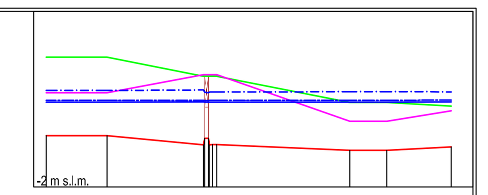


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
MEb018	0.56	0.0	1.07	1.98	1.68	1.71	1.93
	0.59	12.4	1.02	1.25	1.68	1.71	1.93
	0.54	29.0	1.18	1.71	1.68	1.72	1.94
MEb014C	0.67	89.8	1.71	1.71	1.68	1.73	1.88
MEb014D	0.67	202.0	1.71	1.71	1.71	1.61	1.71
MEb012A	0.16	254.8	1.33	1.94	0.78	0.93	1.29
	-0.13	276.0	1.10	1.15	0.76	0.93	1.28
	-0.13	293.7	1.10	1.15	0.76	0.92	1.28
MEb011	-0.12	429.5	1.10	1.15	0.75	0.93	1.28
	-0.12	441.4	1.10	1.15	0.76	0.93	1.28
MEb009	-0.12	499.1	0.97	0.72	0.77	0.92	1.29
MEb008A	-0.13	531.7	0.97	0.72	0.76	0.91	1.29
	-0.12	553.5	0.97	0.72	0.76	0.92	1.29
	-0.13	563.6	0.97	0.72	0.75	0.90	1.27
MEb008D	-0.13	632.4	0.97	0.72	0.74	0.84	1.26
	-0.13	653.4	0.98	0.72	0.75	0.85	1.26
MEb006	-0.25	730.4	0.71	0.94	0.74	0.81	1.12
	-0.33	751.8	0.74	0.76	0.74	0.80	1.11
MEb004A	-0.32	945.9	1.15	1.15	0.74	0.80	1.12
	-0.32	964.4	1.15	1.15	0.74	0.80	1.11
	-0.32	998.6	1.25	1.12	0.74	0.80	1.11

Distanze parziali [m]: 52.3 | 112.3 | 49.3 | 134.8 | 51.7 | 68.7 | 70.8 | 194.1 | 31.6

Fosso di Mezzo - ramo c

Scala distanze 1:5000
Scala quote 1:200



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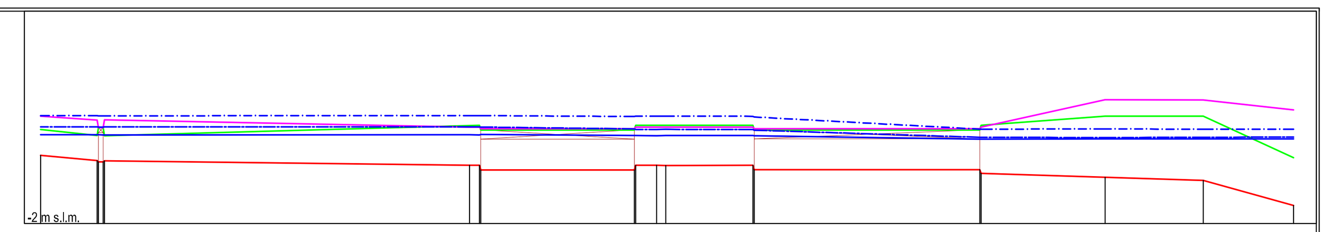
MEc007	-0.35	0.0	2.19	1.05	0.74	0.80	1.13
	-0.35	49.1	2.19	1.05	0.74	0.80	1.12
MEc005A	-0.64	127.0	1.58	1.63	0.75	0.80	1.14
	-0.63	137.8	1.58	1.63	0.74	0.80	1.07
MEc003	-0.82	245.3	0.73	0.12	0.74	0.80	1.08
	-0.82	275.1	0.73	0.12	0.74	0.80	1.08
MEc001	-0.71	327.3	0.61	0.46	0.75	0.81	1.08

Distanze parziali [m]: 49.1 | 77.9 | 107.5 | 52.1

Fosso Brugiano - ramo a

Scala distanze 1:5000
Scala quote 1:200

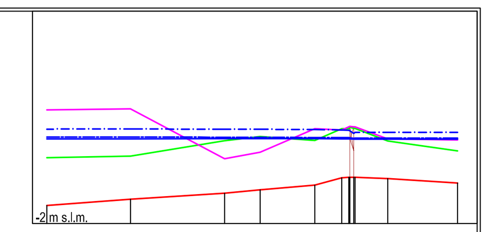


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
BRa011	0.21	0.0	1.05	1.48	0.88	1.13	1.49
	0.03	45.8	0.85	1.35	0.87	1.13	1.49
BRa008	-0.12	347.0	1.18	1.12	0.87	1.13	1.50
BRa007C	-0.27	480.3	1.02	1.07	0.85	1.06	1.47
	-0.12	498.2	1.18	1.12	0.85	1.05	1.48
BRa004A	-0.12	576.2	1.18	1.12	0.85	1.04	1.47
BRa004C	-0.26	759.7	1.02	1.07	0.73	0.79	1.05
BRa002	-0.50	861.2	1.48	2.01	0.74	0.78	1.06
BRa001	-0.61	940.4	1.48	2.00	0.74	0.79	1.05
BRb005	-1.42	1013.4	0.13	1.68	0.74	0.80	1.06

Distanze parziali [m]: 45.8 | 295.3 | 124.3 | 70.5 | 182.6 | 100.4 | 79.3 | 73.0

Fosso Brugiano - ramo b

Scala distanze 1:5000
Scala quote 1:200

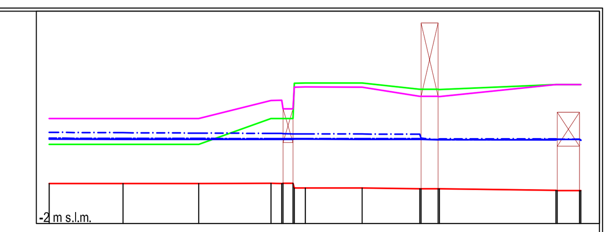


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
BRb005	-1.42	0.0	0.13	1.68	0.74	0.80	1.06
BRb004	-1.22	67.8	0.18	1.71	0.74	0.80	1.06
BRb003	-1.02	143.9	0.68	0.10	0.75	0.79	1.05
	-0.91	172.7	0.82	0.31	0.75	0.79	1.05
BRb001	-0.76	217.1	0.69	1.07	0.75	0.79	1.04
	-0.52	238.8	1.07	1.03	0.74	0.78	1.03
BRc002	-0.50	249.5	1.08	1.13	0.73	0.77	0.95
	-0.55	275.9	0.67	0.74	0.73	0.77	0.96
BRc001	-0.69	332.4	0.35	0.71	0.73	0.76	0.95

Distanze parziali [m]: 67.8 | 76.1 | 44.4 | 56.5

Fosso Brugiano - ramo c

Scala distanze 1:5000
Scala quote 1:200

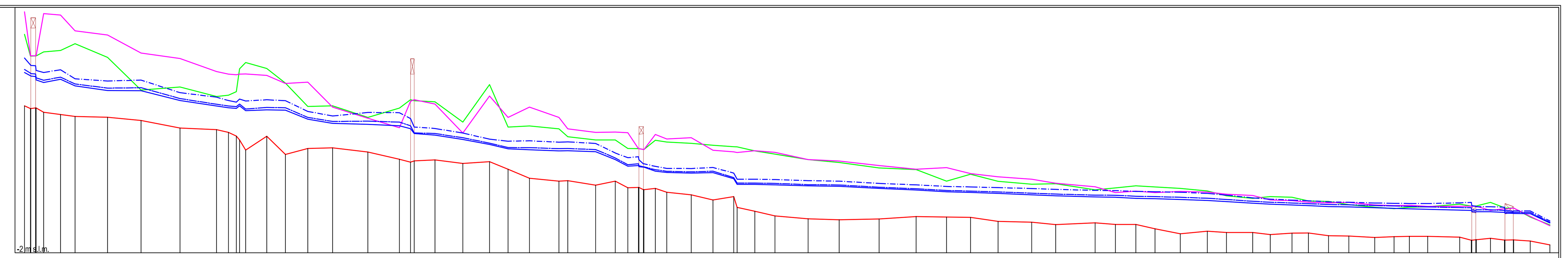


Sezioni	Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
BRd010	-0.70	0.0	0.56	1.40	0.73	0.76	0.95
BRd009	-0.70	59.6	0.56	1.40	0.73	0.76	0.94
BRd008	-0.70	120.8	0.56	1.40	0.73	0.75	0.93
BRd007	-0.70	179.1	1.40	1.99	0.73	0.75	0.92
	-0.70	197.0	1.40	1.71	0.72	0.75	0.90
	-0.85	207.1	2.55	2.42	0.73	0.75	0.90
BRd003	-0.85	253.0	2.55	2.42	0.72	0.75	0.90
BRd001C	-0.88	299.6	2.35	2.12	0.73	0.75	0.89
	-0.88	314.3	2.35	2.12	0.71	0.71	0.71
BRd001E	-0.93	409.5	2.50	2.50	0.71	0.72	0.74
	-0.94	428.7	2.50	2.50	0.72	0.72	0.73

Distanze parziali [m]: 59.6 | 61.2 | 58.4 | 45.9 | 46.6 | 94.3

Fiume Frigido

Scala distanze 1:10000
Scala quote 1:500



Sezioni: fr0074, fr0069, fr0067, fr0065, fr0060, fr0057, fr0055, fr0051, fr0049, fr0047, fr0044, fr0040A, fr0038A, fr0035A, fr0033A, fr0031, fr0029, fr0027, fr0025, fr0022, fr0020, fr0018, fr0015, fr0012, fr0009, fr0007_a, fr0003_c

Quote fondo [m s.l.m.]	Distanze progressive [m]	Quota argine sinistro [m s.l.m.]	Quota argine destro [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]	Livello idrometrico [m s.l.m.]
17.32	0.0	26.74	29.68	21.71	22.12	23.61
17.05	29.4	23.90	23.91	21.19	21.52	22.60
16.49	50.5	24.42	29.47	20.41	20.69	21.71
16.19	94.7	24.62	29.27	20.83	21.10	22.08
15.92	133.0	25.50	27.19	19.97	20.20	20.89
15.83	218.7	23.71	26.65	19.33	19.66	20.59
15.40	306.7	19.41	24.27	19.33	19.71	20.71
14.41	409.0	19.80	23.56	18.03	18.29	19.06
14.20	505.1	18.56	21.84	17.30	17.54	18.47
13.83	536.5	18.72	21.51	17.07	17.31	18.02
13.35	557.1	19.20	21.42	17.00	17.22	17.81
11.51	581.7	23.02	21.52	16.69	16.91	17.96
13.33	637.1	22.24	21.32	16.80	17.12	18.13
10.95	686.4	20.32	20.27	16.77	17.07	18.00
11.73	745.1	17.25	20.44	15.56	15.81	16.60
11.82	810.4	17.34	17.17	15.02	15.27	16.00
11.26	903.3	15.80	15.70	14.91	15.32	16.46
10.30	986.2	17.03	14.46	14.71	15.19	16.43
9.93	1015.2	18.13	17.93	14.32	14.71	15.65
10.21	1079.8	17.86	17.56	13.47	13.69	14.35
9.75	1152.7	15.20	13.76	12.91	13.13	13.75
9.99	1223.3	20.12	18.62	12.26	12.43	12.94
8.99	1271.7	14.54	15.80	11.68	11.84	12.68
7.82	1328.2	14.68	17.16	11.55	11.83	12.73
7.43	1405.6	14.31	15.80	11.40	11.70	12.55
7.50	1428.7	13.26	14.31	11.42	11.71	12.59
6.90	1502.2	12.84	13.85	11.29	11.58	12.38
7.44	1553.8	12.85	13.89	10.26	10.47	11.12
6.55	1586.9	11.72	13.80	9.40	9.59	10.51
6.60	1614.9	11.70	11.70	9.49	9.72	10.64
6.48	1659.4	12.81	13.56	8.74	8.92	9.36
5.95	1689.2	12.56	12.97	8.56	8.72	9.10
5.62	1753.5	12.40	13.13	8.48	8.64	9.08
4.95	1810.9	12.14	11.49	8.54	8.73	9.22
5.40	1865.2	11.95	11.27	7.74	7.90	8.49
3.48	1921.0	11.40	11.42	7.00	7.17	7.68
2.86	1973.8	10.98	11.21	6.95	7.13	7.63
2.47	2061.1	10.25	10.27	6.80	6.97	7.49
2.34	2142.8	9.88	10.08	6.76	6.92	7.42
2.45	2247.6	9.15	9.48	6.47	6.62	7.13
2.77	2345.2	8.95	8.99	6.27	6.42	6.93
2.71	2425.2	7.43	9.21	6.02	6.20	6.73
2.65	2488.3	8.33	8.43	5.94	6.12	6.66
2.14	2560.3	7.40	8.00	5.82	6.01	6.57
2.03	2648.9	7.03	7.68	5.63	5.85	6.46
1.72	2712.1	7.08	7.14	5.51	5.72	6.34
1.94	2816.0	6.29	6.68	5.35	5.59	6.21
1.73	2869.2	6.55	5.93	5.31	5.57	6.18
1.73	2922.8	6.80	6.11	5.15	5.44	6.08
1.17	2973.1	6.65	5.93	5.11	5.39	6.03
0.49	3039.7	6.46	6.07	5.01	5.30	5.97
0.84	3111.0	6.13	5.98	4.89	5.18	5.81
0.68	3161.3	5.50	5.72	4.73	5.02	5.59
0.68	3230.1	5.16	5.53	4.52	4.78	5.23
0.39	3276.3	5.40	4.95	4.40	4.66	5.06
0.58	3333.5	5.30	4.86	4.29	4.55	4.94
0.62	3376.7	4.81	4.66	4.20	4.47	4.84
0.24	3429.4	4.75	4.56	4.09	4.36	4.70
0.21	3482.8	4.34	4.64	4.04	4.31	4.64
0.01	3551.2	4.00	4.30	3.94	4.23	4.55
0.12	3601.8	3.81	4.21	3.85	4.15	4.51
0.16	3642.1	3.99	4.25	3.79	4.10	4.49
0.17	3690.3	4.05	4.11	3.71	4.03	4.48
0.06	3774.6	4.40	4.11	3.61	3.95	4.57
-0.34	3805.2	4.15	4.13	3.58	3.92	4.64
-0.09	3855.6	4.62	3.57	3.40	3.65	4.06
-0.32	3892.5	3.92	3.81	3.32	3.58	4.00
-0.31	3915.5	3.88	3.88	3.19	3.33	3.47
-0.45	3960.2	2.70	2.78	3.16	3.31	3.51
-0.95	4011.7	1.66	1.57	1.91	2.02	2.19

Distanze parziali [m]: 85.7 | 88.0 | 102.3 | 96.1 | 65.4 | 92.9 | 82.9 | 72.9 | 70.6 | 77.4 | 73.5 | 64.3 | 87.2 | 81.7 | 104.8 | 97.6 | 80.0 | 63.1 | 72.0 | 88.6 | 63.2 | 103.9 | 66.6 | 71.3 | 68.8 | 68.4 | 84.2