

Comune di Chiusdino

Provincia di Siena



INDAGINI IDROLOGICO-IDRAULICHE A SUPPORTO DEL REGOLAMENTO URBANISTICO DEL COMUNE DI CHIUSDINO



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COMUNE DI CHIUSDINO

Il Dirigente:
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Oggetto:

**ALLEGATO IDRAULICO 3
RISULTATI DELLA MODELLAZIONE IDRAULICA DEL TORRENTE TRISONDOLA**

PROGETTO

L 1 1 4

TIPOLOGIA

A L L

NUMERO

0 0 3

REVISIONE

A

SCALA

DATA

MAGGIO 2012

REV.	DESCRIZIONE	EMESSO	DATA	VERIFICATO	DATA	APPROVATO	DATA
A	PRIMA EMISSIONE	GABBRIELLI	MAGGIO 2012	GABBRIELLI	MAGGIO 2012	GABBRIELLI	MAGGIO 2012

INDICE ALLEGATO IDRAULICO 3

TORRENTE TRISONDOLA

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HEC-RAS Plan: TRI30 River: TRISONDOLA Reach: CHIUSDINO1

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
CHIUSDINO1	6	22.88	402.85	404.06	404.09	404.51	0.025406	2.99	7.66	9.31	1.05
CHIUSDINO1	6	27.71	402.85	404.17	404.21	404.68	0.025406	3.17	8.75	9.69	1.06
CHIUSDINO1	6	44.10	402.85	404.50	404.68	405.17	0.025438	3.64	12.11	10.80	1.10
CHIUSDINO1	6	55.14	402.85	404.65	404.86	405.40	0.025435	3.89	15.35	20.11	1.11
CHIUSDINO1	5	22.88	396.70	398.45	397.67	398.48	0.000825	0.82	34.82	34.23	0.22
CHIUSDINO1	5	27.71	396.70	398.53	397.76	398.56	0.000976	0.92	37.39	34.23	0.24
CHIUSDINO1	5	44.10	396.70	398.75	397.98	398.81	0.001393	1.21	45.12	34.23	0.29
CHIUSDINO1	5	55.14	396.70	398.88	398.13	398.95	0.001647	1.37	49.41	34.23	0.32
CHIUSDINO1	4	22.88	396.64	398.03	398.03	398.43	0.024759	2.79	8.21	10.43	1.00
CHIUSDINO1	4	27.71	396.64	398.29	398.29	398.53	0.016481	2.22	14.04	32.56	0.83
CHIUSDINO1	4	44.10	396.64	398.47	398.47	398.77	0.016228	2.56	20.26	34.60	0.85
CHIUSDINO1	4	55.14	396.64	398.57	398.57	398.91	0.016391	2.76	23.76	35.69	0.87
CHIUSDINO1	3	22.88	395.08	396.66	396.44	396.86	0.013363	1.97	11.59	15.94	0.74
CHIUSDINO1	3	27.71	395.08	396.80	396.59	397.00	0.012229	1.98	13.99	18.04	0.72
CHIUSDINO1	3	44.10	395.08	397.17	396.88	397.40	0.008988	2.10	21.00	19.56	0.65
CHIUSDINO1	3	55.14	395.08	397.41	397.02	397.65	0.007520	2.14	25.82	20.43	0.61
CHIUSDINO1	2	22.88	393.44	394.87	394.87	395.40	0.024289	3.23	7.08	6.66	1.00
CHIUSDINO1	2	27.71	393.44	395.03	395.03	395.62	0.023919	3.41	8.14	6.89	1.00
CHIUSDINO1	2	44.10	393.44	395.48	395.48	396.24	0.023166	3.85	11.44	7.58	1.00
CHIUSDINO1	2	55.14	393.44	395.74	395.74	396.60	0.023111	4.10	13.45	7.96	1.01
CHIUSDINO1	1	22.88	391.10	392.78	392.86	393.37	0.028809	3.42	6.70	6.90	1.11
CHIUSDINO1	1	27.71	391.10	392.91	393.08	393.58	0.029775	3.64	7.62	7.30	1.14
CHIUSDINO1	1	44.10	391.10	393.19	393.45	394.11	0.033756	4.33	10.90	11.52	1.24
CHIUSDINO1	1	55.14	391.10	393.34	393.64	394.41	0.035745	4.70	12.66	11.82	1.30

HEC-RAS Plan: TRI60 River: TRISONDOLA Reach: CHIUSDINO1

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
CHIUSDINO1	6	31.60	402.85	404.26	404.30	404.81	0.025408	3.30	9.59	9.98	1.07
CHIUSDINO1	6	36.15	402.85	404.35	404.41	404.95	0.025413	3.43	10.54	10.30	1.08
CHIUSDINO1	6	51.11	402.85	404.60	404.80	405.32	0.025440	3.80	14.32	19.69	1.11
CHIUSDINO1	6	60.96	402.85	404.72	404.94	405.50	0.025429	4.00	16.79	20.69	1.12
CHIUSDINO1	5	31.60	396.70	398.59	397.81	398.62	0.001079	0.99	39.45	34.23	0.25
CHIUSDINO1	5	36.15	396.70	398.65	397.88	398.70	0.001196	1.07	41.66	34.23	0.27
CHIUSDINO1	5	51.11	396.70	398.83	398.07	398.90	0.001557	1.31	47.90	34.23	0.31
CHIUSDINO1	5	60.96	396.70	398.94	398.19	399.02	0.001773	1.45	51.48	34.23	0.33
CHIUSDINO1	4	31.60	396.64	398.34	398.34	398.59	0.016371	2.31	15.66	33.10	0.83
CHIUSDINO1	4	36.15	396.64	398.39	398.39	398.66	0.016413	2.42	17.37	33.67	0.84
CHIUSDINO1	4	51.11	396.64	398.54	398.54	398.86	0.016310	2.69	22.53	35.31	0.86
CHIUSDINO1	4	60.96	396.64	398.62	398.62	398.98	0.016397	2.85	25.54	36.24	0.88
CHIUSDINO1	3	31.60	395.08	396.90	396.67	397.10	0.011207	2.01	15.72	18.56	0.70
CHIUSDINO1	3	36.15	395.08	397.00	396.76	397.21	0.010342	2.05	17.61	18.92	0.68
CHIUSDINO1	3	51.11	395.08	397.33	396.97	397.56	0.008035	2.13	24.02	20.11	0.62
CHIUSDINO1	3	60.96	395.08	397.53	397.09	397.77	0.006854	2.14	29.32	26.53	0.59
CHIUSDINO1	2	31.60	393.44	395.14	395.14	395.78	0.023970	3.54	8.92	7.06	1.01
CHIUSDINO1	2	36.15	393.44	395.27	395.27	395.96	0.023495	3.66	9.88	7.26	1.00
CHIUSDINO1	2	51.11	393.44	395.66	395.66	396.47	0.022964	4.00	12.77	7.83	1.00
CHIUSDINO1	2	60.96	393.44	395.88	395.88	396.77	0.022833	4.19	14.53	8.16	1.00
CHIUSDINO1	1	31.60	391.10	392.99	393.19	393.72	0.030680	3.80	8.62	11.13	1.16
CHIUSDINO1	1	36.15	391.10	393.07	393.28	393.87	0.031867	4.01	9.51	11.28	1.19
CHIUSDINO1	1	51.11	391.10	393.29	393.58	394.31	0.035279	4.58	12.01	11.71	1.28
CHIUSDINO1	1	60.96	391.10	393.41	393.74	394.57	0.037168	4.90	13.46	11.95	1.33

HEC-RAS Plan: TRI90 River: TRISONDOLA Reach: CHIUSDINO1

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
CHIUSDINO1	6	30.74	402.85	404.24	404.29	404.78	0.025409	3.27	9.41	9.92	1.07
CHIUSDINO1	6	34.23	402.85	404.31	404.37	404.89	0.025410	3.38	10.14	10.17	1.08
CHIUSDINO1	6	45.73	402.85	404.52	404.72	405.21	0.025381	3.67	12.88	19.08	1.10
CHIUSDINO1	6	53.39	402.85	404.63	404.83	405.37	0.025436	3.85	14.91	19.93	1.11
CHIUSDINO1	5	30.74	396.70	398.57	397.80	398.61	0.001056	0.98	39.02	34.23	0.25
CHIUSDINO1	5	34.23	396.70	398.62	397.85	398.67	0.001148	1.04	40.74	34.23	0.26
CHIUSDINO1	5	45.73	396.70	398.77	398.00	398.83	0.001431	1.23	45.80	34.23	0.29
CHIUSDINO1	5	53.39	396.70	398.86	398.09	398.93	0.001608	1.35	48.77	34.23	0.31
CHIUSDINO1	4	30.74	396.64	398.33	398.33	398.58	0.016414	2.30	15.30	32.98	0.83
CHIUSDINO1	4	34.23	396.64	398.37	398.37	398.63	0.016135	2.36	16.77	33.47	0.83
CHIUSDINO1	4	45.73	396.64	398.49	398.49	398.79	0.016346	2.60	20.75	34.75	0.86
CHIUSDINO1	4	53.39	396.64	398.56	398.56	398.89	0.016409	2.73	23.21	35.52	0.87
CHIUSDINO1	3	30.74	395.08	396.88	396.66	397.08	0.011414	2.00	15.35	18.49	0.70
CHIUSDINO1	3	34.23	395.08	396.96	396.74	397.17	0.010653	2.03	16.83	18.77	0.69
CHIUSDINO1	3	45.73	395.08	397.21	396.90	397.44	0.008721	2.11	21.72	19.69	0.64
CHIUSDINO1	3	53.39	395.08	397.37	397.00	397.61	0.007755	2.13	25.01	20.29	0.61
CHIUSDINO1	2	30.74	393.44	395.11	395.11	395.74	0.023980	3.52	8.75	7.02	1.01
CHIUSDINO1	2	34.23	393.44	395.21	395.21	395.88	0.023845	3.62	9.46	7.17	1.01
CHIUSDINO1	2	45.73	393.44	395.52	395.52	396.30	0.023363	3.90	11.71	7.63	1.01
CHIUSDINO1	2	53.39	393.44	395.71	395.71	396.54	0.022926	4.05	13.18	7.91	1.00
CHIUSDINO1	1	30.74	391.10	392.98	393.16	393.69	0.030476	3.76	8.44	11.09	1.15
CHIUSDINO1	1	34.23	391.10	393.04	393.25	393.81	0.031114	3.91	9.17	11.22	1.18
CHIUSDINO1	1	45.73	391.10	393.22	393.48	394.16	0.034097	4.39	11.17	11.57	1.25
CHIUSDINO1	1	53.39	391.10	393.32	393.62	394.37	0.035738	4.66	12.36	11.77	1.29

HEC-RAS Plan: TR1120 River: TRISONDOLA Reach: CHIUSDINO1

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
CHIUSDINO1	6	26.93	402.85	404.15	404.19	404.66	0.025406	3.14	8.58	9.63	1.06
CHIUSDINO1	6	29.64	402.85	404.21	404.26	404.75	0.025411	3.23	9.17	9.84	1.07
CHIUSDINO1	6	38.79	402.85	404.40	404.47	405.03	0.025413	3.50	11.07	10.47	1.09
CHIUSDINO1	6	45.01	402.85	404.52	404.70	405.20	0.025449	3.66	12.29	10.86	1.10
CHIUSDINO1	5	26.93	396.70	398.51	397.74	398.55	0.000954	0.91	36.97	34.23	0.23
CHIUSDINO1	5	29.64	396.70	398.56	397.78	398.59	0.001027	0.96	38.44	34.23	0.24
CHIUSDINO1	5	38.79	396.70	398.68	397.92	398.73	0.001264	1.12	42.84	34.23	0.27
CHIUSDINO1	5	45.01	396.70	398.76	397.99	398.82	0.001418	1.22	45.47	34.23	0.29
CHIUSDINO1	4	26.93	396.64	398.28	398.28	398.51	0.016648	2.21	13.66	32.43	0.83
CHIUSDINO1	4	29.64	396.64	398.31	398.31	398.56	0.016499	2.27	14.83	32.82	0.83
CHIUSDINO1	4	38.79	396.64	398.42	398.42	398.70	0.016153	2.46	18.44	34.01	0.84
CHIUSDINO1	4	45.01	396.64	398.49	398.49	398.78	0.015766	2.55	20.79	34.76	0.84
CHIUSDINO1	3	26.93	395.08	396.78	396.57	396.98	0.012431	1.97	13.64	17.90	0.72
CHIUSDINO1	3	29.64	395.08	396.85	396.63	397.05	0.011769	2.00	14.84	18.38	0.71
CHIUSDINO1	3	38.79	395.08	397.06	396.80	397.27	0.009864	2.07	18.72	19.13	0.67
CHIUSDINO1	3	45.01	395.08	397.19	396.89	397.42	0.008888	2.11	21.36	19.63	0.64
CHIUSDINO1	2	26.93	393.44	395.00	395.00	395.58	0.023988	3.38	7.97	6.86	1.00
CHIUSDINO1	2	29.64	393.44	395.09	395.09	395.70	0.023780	3.47	8.55	6.98	1.00
CHIUSDINO1	2	38.79	393.44	395.35	395.35	396.05	0.023356	3.73	10.41	7.37	1.00
CHIUSDINO1	2	45.01	393.44	395.51	395.51	396.27	0.023123	3.87	11.62	7.61	1.00
CHIUSDINO1	1	26.93	391.10	392.89	393.06	393.55	0.029636	3.60	7.48	7.24	1.13
CHIUSDINO1	1	29.64	391.10	392.96	393.13	393.66	0.030038	3.71	7.98	7.46	1.14
CHIUSDINO1	1	38.79	391.10	393.11	393.34	393.96	0.032509	4.12	9.99	11.37	1.21
CHIUSDINO1	1	45.01	391.10	393.21	393.47	394.14	0.033998	4.36	11.04	11.55	1.25





