



Piano

Operativo

Comune di Cetona

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ADOTTATO CON DELIBERA DI CONSIGLIO COMUNALE N. 87 DEL 16.12.2021
APPROVATO CON DELIBERA DI CONSIGLIO COMUNALE N. DEL ...
(ADEGUATO ALL'ESITO DELLA CONFERENZA PAESAGGISTICA ART. 12 PIT/PPR E ALL'ATTO CONSIGLIARE DI APPROVAZIONE)

SCALA

03

**RISULTATI MODELLAZIONE
IDRAULICA CORSI D'ACQUA**

GIUGNO 2023

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1.
TABELLE GRANDEZZE IDRAULICHE DI SEZIONE
(istante di massimo tirante idrico)

FSGMB - F.so Gamberaio

HEC-RAS Locations: User Defined Profile: Max WS

River	Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (mm)	Vel Chnl (m/s)	Flow Area (m2)	Mann Wld Left	Mann Wld Chnl	Mann Wld Right	Mann Wld Total	Froude # Chl
FSGMB	FSGMB_01	494.50	Max WS	SA_050Y_02H	22.99	262.91	265.47	264.94	265.68	0.006272	2.06	11.18		0.040		0.040	0.59
FSGMB	FSGMB_01	494.50	Max WS	SA_200Y_02H	57.41	262.91	265.74	265.83	266.64	0.020169	4.21	13.64		0.040		0.040	1.10
FSGMB	FSGMB_01	494.4		Lat Struct													
FSGMB	FSGMB_01	494.3		Lat Struct													
FSGMB	FSGMB_01	489.57	Max WS	SA_050Y_02H	24.13	262.88	265.40	264.97	265.65	0.007300	2.21	10.93		0.040		0.040	0.64
FSGMB	FSGMB_01	489.57	Max WS	SA_200Y_02H	51.53	262.88	265.64	265.68	266.43	0.018156	3.93	13.11		0.040		0.040	1.04
FSGMB	FSGMB_01	484.63	Max WS	SA_050Y_02H	24.08	262.86	265.34	264.94	265.60	0.007490	2.24	10.77		0.040		0.040	0.65
FSGMB	FSGMB_01	484.63	Max WS	SA_200Y_02H	47.66	262.86	265.56	265.56	266.28	0.017118	3.76	12.66		0.040		0.040	1.01
FSGMB	FSGMB_01	479.70	Max WS	SA_050Y_02H	23.74	262.83	265.33	264.89	265.57	0.006761	2.17	10.95		0.040		0.040	0.62
FSGMB	FSGMB_01	479.70	Max WS	SA_200Y_02H	44.41	262.83	265.50	265.45	266.15	0.015307	3.56	12.48		0.040		0.040	0.95
FSGMB	FSGMB_01	474.77	Max WS	SA_050Y_02H	31.15	262.80	265.26	265.11	265.69	0.012203	2.90	10.74		0.040		0.040	0.83
FSGMB	FSGMB_01	474.77	Max WS	SA_200Y_02H	42.73	262.80	265.53	265.38	266.08	0.012108	3.28	13.01		0.040		0.040	0.86
FSGMB	FSGMB_01	469.83	Max WS	SA_050Y_02H	17.88	262.78	265.26	264.58	265.40	0.003575	1.62	11.06		0.040		0.040	0.45
FSGMB	FSGMB_01	469.83	Max WS	SA_200Y_02H	42.48	262.78	265.50	265.32	266.04	0.011447	3.24	13.11		0.040		0.040	0.83
FSGMB	FSGMB_01	464.90	Max WS	SA_050Y_02H	29.90	262.75	265.21	264.98	265.59	0.010134	2.73	10.96		0.040		0.040	0.76
FSGMB	FSGMB_01	464.90	Max WS	SA_200Y_02H	41.70	262.75	265.50	265.27	266.00	0.010081	3.11	13.40		0.040		0.040	0.79
FSGMB	FSGMB_01	459.97	Max WS	SA_050Y_02H	22.74	262.72	265.20	264.69	265.41	0.005405	2.04	11.17		0.040		0.040	0.56
FSGMB	FSGMB_01	459.97	Max WS	SA_200Y_02H	41.07	262.72	265.50	265.21	265.96	0.008911	3.00	13.71		0.040		0.040	0.75
FSGMB	FSGMB_01	455.03	Max WS	SA_050Y_02H	28.89	262.70	265.19	264.85	265.52	0.007966	2.53	11.43		0.040		0.040	0.68
FSGMB	FSGMB_01	455.03	Max WS	SA_200Y_02H	40.31	262.70	265.51	265.15	265.93	0.007816	2.87	14.03		0.040		0.040	0.70
FSGMB	FSGMB_01	450.10	Max WS	SA_050Y_02H	28.52	262.67	265.19	264.80	265.49	0.007095	2.44	11.89		0.040		0.040	0.65
FSGMB	FSGMB_01	450.10	Max WS	SA_200Y_02H	39.87	262.67	265.51	265.10	265.90	0.007131	2.79	14.27		0.040		0.040	0.67
FSGMB	FSGMB_01	445.27	Max WS	SA_050Y_02H	28.08	262.66	265.17	264.76	265.46	0.006807	2.39	11.75		0.040		0.040	0.64
FSGMB	FSGMB_01	445.27	Max WS	SA_200Y_02H	39.43	262.66	265.49	265.07	265.88	0.008611	2.74	14.37		0.040		0.040	0.66
FSGMB	FSGMB_01	440.45	Max WS	SA_050Y_02H	27.53	262.64	265.17	264.72	265.44	0.006274	2.31	11.93		0.040		0.040	0.61
FSGMB	FSGMB_01	440.45	Max WS	SA_200Y_02H	38.87	262.64	265.49	265.04	265.86	0.006415	2.67	14.58		0.040		0.040	0.64
FSGMB	FSGMB_01	435.62	Max WS	SA_050Y_02H	26.84	262.63	265.18	264.68	265.43	0.005993	2.20	12.20		0.040		0.040	0.58
FSGMB	FSGMB_01	435.62	Max WS	SA_200Y_02H	38.18	262.63	265.50	265.00	265.84	0.005867	2.57	14.86		0.040		0.040	0.61
FSGMB	FSGMB_01	430.79	Max WS	SA_050Y_02H	26.42	262.61	265.18	264.63	265.41	0.005242	2.14	12.36		0.040		0.040	0.56
FSGMB	FSGMB_01	430.79	Max WS	SA_200Y_02H	37.90	262.61	265.49	264.97	265.82	0.005698	2.53	14.96		0.040		0.040	0.60
FSGMB	FSGMB_01	425.97	Max WS	SA_050Y_02H	25.90	262.60	265.18	264.59	265.40	0.004798	2.06	12.57		0.040		0.040	0.54
FSGMB	FSGMB_01	425.97	Max WS	SA_200Y_02H	37.31	262.60	265.49	264.94	265.80	0.005276	2.45	15.21		0.040		0.040	0.58
FSGMB	FSGMB_01	421.14	Max WS	SA_050Y_02H	25.47	262.58	265.18	264.56	265.38	0.004451	1.99	12.77		0.040		0.040	0.52
FSGMB	FSGMB_01	421.14	Max WS	SA_200Y_02H	36.76	262.58	265.50	264.89	265.78	0.004909	2.38	15.45		0.040		0.040	0.56
FSGMB	FSGMB_01	421.1		Lat Struct													
FSGMB	FSGMB_01	421.0		Lat Struct													
FSGMB	FSGMB_01	416.31	Max WS	SA_050Y_02H	24.90	262.57	265.18	264.51	265.37	0.004943	1.91	13.01		0.040		0.040	0.49
FSGMB	FSGMB_01	416.31	Max WS	SA_200Y_02H	36.39	262.57	265.49	264.86	265.77	0.004659	2.32	15.85		0.040		0.040	0.55
FSGMB	FSGMB_01	411.49	Max WS	SA_050Y_02H	24.43	262.55	265.18	264.47	265.36	0.003705	1.84	13.24		0.040		0.040	0.47
FSGMB	FSGMB_01	411.49	Max WS	SA_200Y_02H	35.98	262.55	265.49	264.83	265.75	0.004418	2.27	15.84		0.040		0.040	0.53
FSGMB	FSGMB_01	406.66	Max WS	SA_050Y_02H	23.85	262.54	265.19	264.42	265.35	0.003333	1.76	13.52		0.040		0.040	0.45
FSGMB	FSGMB_01	406.66	Max WS	SA_200Y_02H	35.49	262.54	265.49	264.79	265.74	0.004114	2.20	16.11		0.040		0.040	0.51
FSGMB	FSGMB_01	401.83	Max WS	SA_050Y_02H	23.20	262.52	265.20	264.37	265.34	0.002956	1.69	13.83		0.040		0.040	0.42
FSGMB	FSGMB_01	401.83	Max WS	SA_200Y_02H	34.87	262.52	265.50	264.74	265.73	0.003777	2.13	16.40		0.040		0.040	0.49
FSGMB	FSGMB_01	397.01	Max WS	SA_050Y_02H	22.51	262.51	265.21	264.32	265.34	0.002612	1.59	14.14		0.040		0.040	0.40
FSGMB	FSGMB_01	397.01	Max WS	SA_200Y_02H	34.50	262.51	265.49	264.70	265.71	0.003572	2.07	16.63		0.040		0.040	0.48
FSGMB	FSGMB_01	392.18	Max WS	SA_050Y_02H	21.82	262.49	265.22	264.26	265.33	0.002312	1.51	14.45		0.040		0.040	0.38
FSGMB	FSGMB_01	392.18	Max WS	SA_200Y_02H	34.40	262.49	265.48	264.67	265.70	0.003477	2.05	16.79		0.040		0.040	0.47
FSGMB	FSGMB_01	391.21	Max WS	SA_050Y_02H	21.65	262.50	265.22	264.25	265.33	0.002256	1.49	14.51		0.040		0.040	0.37
FSGMB	FSGMB_01	391.21	Max WS	SA_200Y_02H	34.41	262.50	265.48	264.67	265.69	0.003481	2.05	16.82		0.040		0.040	0.47
FSGMB	FSGMB_01	387.35	Max WS	SA_050Y_02H	20.43	262.48	265.24	264.18	265.34	0.001844	1.37	14.91		0.040		0.040	0.34
FSGMB	FSGMB_01	387.35	Max WS	SA_200Y_02H	34.94	262.48	265.45	264.66	265.67	0.003640	2.08	16.78		0.040		0.040	0.48
FSGMB	FSGMB_01	382.53	Max WS	SA_050Y_02H	18.49	262.47	265.28	264.07	265.35	0.001357	1.20	15.45		0.040		0.040	0.29
FSGMB	FSGMB_01	382.53	Max WS	SA_200Y_02H	34.63	262.47	265.43	264.62	265.64	0.003603	2.06	16.80		0.040		0.040	0.48
FSGMB	FSGMB_01	381.56	Max WS	SA_050Y_02H	18.02	262.46	265.28	264.11	265.35	0.001392	1.19	15.48	0.060	0.040	0.060	0.038	0.29
FSGMB	FSGMB_01	381.56	Max WS	SA_200Y_02H	34.37	262.46	265.42	264.67	265.64	0.003840	2.08	16.95	0.060	0.040	0.060	0.039	0.49
FSGMB	FSGMB_01	380.60	Max WS	SA_050Y_02H	17.46	262.46	265.29	264.12	265.35	0.001333	1.15	15.77	0.060	0.040	0.060	0.037	0.29
FSGMB	FSGMB_01	380.60	Max WS	SA_200Y_02H	33.94	262.46	265.44	264.69	265.64	0.003712	2.04	17.53	0.060	0.040	0.060	0.038	0.22
FSGMB	FSGMB_01	379.63	Max WS	SA_050Y_02H	16.82	262.46	265.30	264.05	265.36	0.001136	1.08	16.51	0.060	0.040	0.060	0.036	0.27
FSGMB	FSGMB_01	379.63	Max WS	SA_200Y_02H	33.09	262.46	265.47	264.64	265.65	0.003069	1.90	18.85	0.060	0.040	0.060	0.037	0.44
FSGMB	FSGMB_01	378.67	Max WS	SA_050Y_02H	15.72	262.45	265.32	263.96	265.36	0.000903	0.98	17.46	0.060	0.040	0.060	0.035	0.24
FSGMB	FSGMB_01	378.67	Max WS	SA_200Y_02H	30.28	262.45	265.56	264.51	265.68	0.002039	1.60	21.08	0.060	0.040	0.060	0.037	0.36
FSGMB	FSGMB_01	377.70	Max WS	SA_050Y_02H	13.83	262.45	265.34	263.83	265.37	0.000605	0.82	18.64	0.060	0.040	0.060	0.034	0.19
FSGMB	FSGMB_01	377.70	Max WS	SA_200Y_02H	20.98	262.45	265.68	264.14	265.73	0.000713	1.00	24.21	0.060	0.040	0.060	0.038	0.22
FSGMB	FSGMB_01	368.90	Max WS	SA_050Y_02H	13.66	262.31	264.83	263.88	264.90	0.001912	1.20	11.42		0.040		0.040	0.33
FSGMB	FSGMB_01	368.90	Max WS	SA_200Y_02H	20.94	262.31	265.25	264.20	265.34	0.001833	1.35	16.97	0.060	0.040	0.060	0.031	0.34
FSGMB	FSGMB_01	368.8		Lat Struct													
FSGMB	FSGMB_01	368.7		Lat Struct													
FSGMB	FSGMB_01	367.95	Max WS	SA_050Y_02H	14.07	262.31	264.82	263.90	264.90	0.002037	1.23	11.39		0.040		0.040	0.34
FSGMB	FSGMB_01	367.95	Max WS	SA_200Y_02H	21.03	262.31	265.24	264.20	265.34	0.001945	1.38	15.20</					

HEC-RAS Locations: User Defined Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (mm)	Vel Chnl (m/s)	Flow Area (m2)	Mann Wld Left	Mann Wld Chnl	Mann Wld Right	Mann Wld Total	Froude # Chl
FSGMB	FSGMB_01	202.30	Max WS	SA_200Y_02H	48.56	261.13	264.27	263.79	264.57	0.005988	2.42	20.07		0.040		0.040	0.61
FSGMB	FSGMB_01	142.10	Max WS	SA_050Y_02H	30.85	260.79	263.68	263.19	263.86	0.005087	1.84	16.78		0.040		0.040	0.54
FSGMB	FSGMB_01	142.10	Max WS	SA_200Y_02H	45.89	260.79	263.83	263.50	264.14	0.007710	2.43	18.87		0.040		0.040	0.67
FSGMB	FSGMB_01	21.00	Max WS	SA_050Y_02H	15.43	260.31	263.56	262.22	263.59	0.000541	0.72	21.48		0.040		0.040	0.18
FSGMB	FSGMB_01	21.00	Max WS	SA_200Y_02H	34.19	260.31	263.73	262.70	263.84	0.001935	1.43	23.88		0.040		0.040	0.35
FSGMB	FSGMB_01	0.00	Max WS	SA_050Y_02H	15.46	260.26	263.55	262.17	263.57	0.000506	0.70	22.02		0.040		0.040	0.18
FSGMB	FSGMB_01	0.00	Max WS	SA_200Y_02H	21.21	260.26	263.67	262.34	263.71	0.000763	0.90	23.70		0.040		0.040	0.22
FSGMB	FSGMB_01	-25.00	Max WS	SA_050Y_02H	16.81	260.06	263.54	261.96	263.56	0.000361	0.64	26.19		0.040		0.040	0.15
FSGMB	FSGMB_01	-25.00	Max WS	SA_200Y_02H	22.42	260.06	263.65	262.11	263.69	0.000534	0.81	27.84		0.040		0.040	0.18

TRFSL - T. Fossalto

HEC-RAS Plan: SA-Q30+50+200 MIX River: TRFSL Reach: TRFSL_01

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W. S. Elev (m)	Crit W. S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Right	Mann Wtd Total	Froude # Chl
TRFSL_01	1567.9	Tr=50 anni	48.70	358.34	360.43	360.33	360.90	0.012133	3.40	21.29	0.060	0.045	0.100	0.050	0.82
TRFSL_01	1567.9	Tr=200 anni	91.20	358.34	360.94	360.94	361.71	0.015430	4.54	32.37	0.060	0.045	0.100	0.052	0.97
TRFSL_01	1551.33	Tr=50 anni	48.70	358.35	360.34	360.14	360.68	0.008754	2.90	24.97	0.060	0.045	0.100	0.049	0.70
TRFSL_01	1551.33	Tr=200 anni	91.20	358.35	360.80	360.53	361.39	0.011909	3.95	36.99	0.060	0.045	0.100	0.051	0.85
TRFSL_01	1534.77	Tr=50 anni	48.70	358.35	360.22	360.01	360.53	0.008225	2.73	26.48	0.060	0.045	0.100	0.046	0.67
TRFSL_01	1534.77	Tr=200 anni	91.20	358.35	360.72	360.55	361.18	0.009216	3.44	41.74	0.060	0.045	0.100	0.052	0.74
TRFSL_01	1518.2	Tr=50 anni	48.70	358.36	359.92	359.92	360.35	0.013604	3.09	21.67	0.060	0.045	0.100	0.042	0.83
TRFSL_01	1518.2	Tr=200 anni	91.20	358.36	360.41	360.41	360.99	0.013666	3.77	36.46	0.060	0.045	0.100	0.050	0.88
TRFSL_01	1517.7	Tr=50 anni	48.70	357.86	359.20	359.59	360.27	0.046736	4.59	10.61		0.045		0.045	1.41
TRFSL_01	1517.7	Tr=200 anni	91.20	357.86	359.94	360.22	360.94	0.024356	4.64	25.97	0.060	0.045	0.100	0.040	1.10
TRFSL_01	1493.9	Tr=50 anni	48.70	356.93	359.38	358.57	359.53	0.002770	1.85	34.84	0.060	0.045	0.100	0.039	0.40
TRFSL_01	1493.9	Tr=200 anni	91.20	356.93	360.39	359.24	360.55	0.001922	2.00	72.01	0.060	0.045	0.100	0.048	0.36
TRFSL_01	1490.6		Culvert												
TRFSL_01	1487.4	Tr=50 anni	48.70	356.65	359.40	358.26	359.49	0.001534	1.51	43.19	0.060	0.045	0.100	0.044	0.31
TRFSL_01	1487.4	Tr=200 anni	91.20	356.65	360.39	358.93	360.51	0.001327	1.76	78.99	0.060	0.045	0.100	0.047	0.30
TRFSL_01	1451.3	Tr=50 anni	48.70	356.91	358.77	358.68	359.32	0.013998	3.30	16.24	0.060	0.045	0.100	0.037	0.84
TRFSL_01	1451.3	Tr=200 anni	91.20	356.91	360.10	359.40	360.41	0.004226	2.73	50.19	0.060	0.045	0.100	0.044	0.51
TRFSL_01	1450.3		Bridge												
TRFSL_01	1449.3	Tr=50 anni	48.70	356.91	358.62	358.68	359.32	0.020287	3.71	13.81	0.060	0.045	0.100	0.037	1.00
TRFSL_01	1449.3	Tr=200 anni	91.20	356.91	359.40	359.40	360.18	0.013672	4.08	28.61	0.060	0.045	0.100	0.041	0.88
TRFSL_01	1448.3	Tr=50 anni	48.70	354.88	355.55	356.28	358.88	0.312109	8.08	6.02		0.045		0.045	3.42
TRFSL_01	1448.3	Tr=200 anni	91.20	354.88	355.98	356.94	359.78	0.185621	8.08	10.56		0.045		0.045	2.77
TRFSL_01	1441.8	Tr=50 anni	48.70	354.88	357.17	356.28	357.39	0.004705	2.08	23.43		0.045		0.045	0.45
TRFSL_01	1441.8	Tr=200 anni	91.20	354.88	357.97	356.94	358.38	0.006455	2.84	32.17	0.060	0.045	0.100	0.044	0.53
TRFSL_01	1439.8	Tr=50 anni	48.70	354.88	356.57	356.57	357.32	0.023489	3.84	12.68		0.045		0.045	1.00
TRFSL_01	1439.8	Tr=200 anni	91.20	354.88	357.46	357.46	358.31	0.019284	4.13	23.64	0.060	0.045	0.100	0.042	0.95
TRFSL_01	1437.8	Tr=50 anni	48.70	354.88	355.90	356.29	357.18	0.068384	5.00	9.73		0.045		0.045	1.73
TRFSL_01	1437.8	Tr=200 anni	91.20	354.88	356.38	356.93	358.14	0.059887	5.88	15.51		0.045		0.045	1.70
TRFSL_01	1320.16	Tr=50 anni	48.70	352.40	354.06	353.99	354.64	0.018200	3.39	14.38		0.045		0.045	0.93
TRFSL_01	1320.16	Tr=200 anni	91.20	352.40	354.81	354.71	355.60	0.017048	3.95	23.10		0.045		0.045	0.93
TRFSL_01	1273.1	Tr=50 anni	48.70	351.41	353.46	353.09	353.88	0.011174	2.88	16.90		0.045		0.045	0.73
TRFSL_01	1273.1	Tr=200 anni	91.20	351.41	354.19	353.85	354.86	0.012070	3.64	25.46		0.045	0.100	0.043	0.78
TRFSL_01	1171.1	Tr=50 anni	48.70	350.28	352.06	352.06	352.67	0.021211	3.45	14.12		0.045		0.045	1.00
TRFSL_01	1171.1	Tr=200 anni	91.20	350.28	352.85	352.85	353.58	0.014987	3.79	25.50	0.060	0.045	0.100	0.033	0.88
TRFSL_01	1170.1	Tr=50 anni	48.70	348.15	348.72	349.44	352.19	0.360459	8.25	5.90		0.045		0.045	3.62
TRFSL_01	1170.1	Tr=200 anni	91.20	348.15	349.11	350.12	353.14	0.217457	8.89	10.26		0.045		0.045	2.96
TRFSL_01	1160.1	Tr=50 anni	48.70	348.14	350.37	349.43	350.57	0.004027	1.96	25.60		0.045	0.100	0.042	0.43
TRFSL_01	1160.1	Tr=200 anni	91.20	348.14	351.03	350.11	351.40	0.005817	2.74	36.30		0.045	0.100	0.043	0.54
TRFSL_01	1158.1	Tr=50 anni	48.70	348.51	349.97	349.97	350.52	0.021202	3.29	14.81		0.045		0.045	1.00
TRFSL_01	1158.1	Tr=200 anni	91.20	348.51	350.57	350.57	351.35	0.018408	3.90	23.86		0.045	0.100	0.043	0.98
TRFSL_01	1157.1	Tr=50 anni	48.70	347.41	348.12	348.70	350.26	0.168434	6.49	7.51		0.045		0.045	2.55
TRFSL_01	1157.1	Tr=200 anni	91.20	347.41	348.59	349.33	351.11	0.105590	7.03	12.97		0.045		0.045	2.13
TRFSL_01	1106.5	Tr=50 anni	48.70	346.00	347.61	347.78	348.33	0.024152	3.80	13.84	0.060	0.045		0.037	1.09
TRFSL_01	1106.5	Tr=200 anni	91.20	346.00	347.98	348.34	349.21	0.032718	5.10	20.36	0.060	0.045		0.042	1.31
TRFSL_01	1002.7	Tr=50 anni	48.70	343.93	346.81	345.35	346.87	0.000824	1.11	50.65	0.060	0.045	0.100	0.041	0.23
TRFSL_01	1002.7	Tr=200 anni	91.20	343.93	347.34	345.85	347.46	0.001383	1.65	68.04	0.060	0.045	0.100	0.042	0.31
TRFSL_01	1001.0		Culvert												
TRFSL_01	999.2	Tr=50 anni	48.70	343.93	345.36	345.35	345.81	0.020375	3.00	16.24		0.045		0.045	0.98
TRFSL_01	999.2	Tr=200 anni	91.20	343.93	346.03	345.85	346.56	0.011621	3.22	29.81	0.060	0.045	0.100	0.041	0.81
TRFSL_01	980.87	Tr=50 anni	48.70	343.41	345.09	344.89	345.47	0.011921	2.73	17.97	0.060	0.045	0.100	0.043	0.78
TRFSL_01	980.87	Tr=200 anni	91.20	343.41	345.94	345.48	346.37	0.006931	2.94	34.63	0.060	0.045	0.100	0.040	0.65
TRFSL_01	962.53	Tr=50 anni	48.70	342.88	344.95	344.52	345.28	0.007823	2.58	19.75	0.060	0.045	0.100	0.040	0.64
TRFSL_01	962.53	Tr=200 anni	91.20	342.88	345.82	345.23	346.25	0.005829	2.99	36.59	0.060	0.045	0.100	0.040	0.60
TRFSL_01	944.2	Tr=50 anni	48.70	342.36	344.37	344.37	345.09	0.018587	3.75	13.59	0.060	0.045	0.100	0.040	0.96
TRFSL_01	944.2	Tr=200 anni	91.20	342.36	345.20	345.20	346.07	0.013804	4.29	26.44	0.060	0.045	0.100	0.040	0.89
TRFSL_01	855.3	Tr=50 anni	48.70	340.43	342.43	342.58	343.23	0.022701	4.14	15.13		0.045	0.100	0.044	1.06
TRFSL_01	855.3	Tr=200 anni	91.20	340.43	342.98	343.30	344.17	0.024898	5.24	25.76	0.060	0.045	0.100	0.047	1.16
TRFSL_01	836.48	Tr=50 anni	48.70	340.20	342.14	342.16	342.82	0.018046	3.74	15.04	0.060	0.045	0.100	0.040	0.96
TRFSL_01	836.48	Tr=200 anni	91.20	340.20	342.90	342.93	343.72	0.013757	4.27	30.05	0.060	0.045	0.100	0.044	0.90
TRFSL_01	780.0	Tr=50 anni	48.70	339.53	340.99	341.08	341.64	0.022540	3.60	14.26	0.060	0.045	0.100	0.041	1.07
TRFSL_01	780.0	Tr=200 anni	91.20	339.53	341.49	341.60	342.50	0.022364	4.55	22.20	0.060	0.045	0.100	0.042	1.13
TRFSL_01	705.03	Tr=50 anni	48.70	338.12	339.58	339.59	340.16	0.020575	3.39	14.71		0.045	0.100	0.043	1.01
TRFSL_01	705.03	Tr=200 anni	91.20	338.12	340.06	340.32	340.95	0.020332	4.27	25.22	0.060	0.045	0.100	0.036	1.07
TRFSL_01	648.8	Tr=50 anni	48.70	337.07	338.62	338.52	339.04	0.013379	2.91	19.20		0.045	0.100	0.039	0.83
TRFSL_01	648.8	Tr=200 anni	91.20	337.07	339.09	339.20	339.71	0.014396	3.65	34.67	0.060	0.045	0.100	0.037	0.90
TRFSL_01	576.56	Tr=50 anni	48.70	335.98	337.65	337.56	338.07	0.012886	2.90	19.83		0.045	0.100	0.037	0.81
TRFSL_01	576.56	Tr=200 anni	91.20	335.98	338.04	338.19	338.62	0.014541	3.66	39.37	0.060	0.045	0.100	0.038	0.90
TRFSL_01	468.2	Tr=50 anni	48.70	334.34	336.09	336.28	336.54	0.014737	3.08	22.64	0.060	0.045	0.100	0.025	0.87
TRFSL_01	468.2	Tr=200 anni	91.20	334.34	336.32	336.50	336.88	0.018631	3.86	46.01	0.060	0.045	0.100	0.037	1.00
TRFSL_01	379.6	Tr=50 anni	48.70	332.95	334.87	334.97	335.24	0.013647	3.15	30.44	0.060	0.045	0.100	0.039	0.82
TRFSL_01	379.6	Tr=200 anni	91.20	332.95	335.16	335.26	335.56	0.014421	3.65	55.95	0.060	0.045	0.100	0.051	0.87
TRFSL_01	309.0	Tr=50 anni	48.70	332.67	333.98	333.74	334.07	0.006757	1.34	38.13		0.045	0.100	0.048	0.54
TRFSL_01	309.0	Tr=200 anni	91.20	332.67	334.26	333.96	334.41	0.007229	1.76	54.21		0.045	0.100	0.048	0.59

HEC-RAS Plan: SA-Q30+50+200 MIX River: TRFSL Reach: TRFSL_01 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Right	Mann Wtd Total	Froude # Chl
TRFSL_01	297.5	Tr=200 anni	91.20	333.25	333.93	333.93	334.25	0.023056	2.48	36.74		0.045		0.045	1.00
TRFSL_01	297.0	Tr=50 anni	48.70	331.39	331.65	331.93	333.50	0.969791	6.02	8.08		0.045		0.045	5.06
TRFSL_01	297.0	Tr=200 anni	91.20	331.39	331.76	332.16	333.93	0.546489	6.52	13.99		0.045		0.045	4.16
TRFSL_01	289.0	Tr=50 anni	48.70	326.89	327.48	327.87	329.40	0.384040	6.13	7.95		0.045		0.045	3.59
TRFSL_01	289.0	Tr=200 anni	91.20	326.89	327.64	328.14	330.24	0.378390	7.13	12.79		0.045		0.045	3.71
TRFSL_01	231.27	Tr=50 anni	48.70	326.10	327.49	327.30	327.71	0.010675	2.09	23.27		0.045		0.045	0.71
TRFSL_01	231.27	Tr=200 anni	91.20	326.10	327.90	327.68	328.26	0.010901	2.66	34.32		0.045		0.045	0.75
TRFSL_01	115.8	Tr=50 anni	48.70	324.51	326.47	326.43	326.73	0.019160	2.26	21.51		0.045		0.045	0.90
TRFSL_01	115.8	Tr=200 anni	91.20	324.51	326.80	326.74	327.20	0.017462	2.80	32.58		0.045		0.045	0.91
TRFSL_01	0.0	Tr=50 anni	48.70	323.18	324.61	324.55	325.06	0.015026	3.03	18.98		0.045	0.100	0.043	0.86
TRFSL_01	0.0	Tr=200 anni	91.20	323.18	325.16	325.06	325.80	0.015006	3.73	33.45		0.045	0.100	0.044	0.90

TRSFR - T. San Francesco

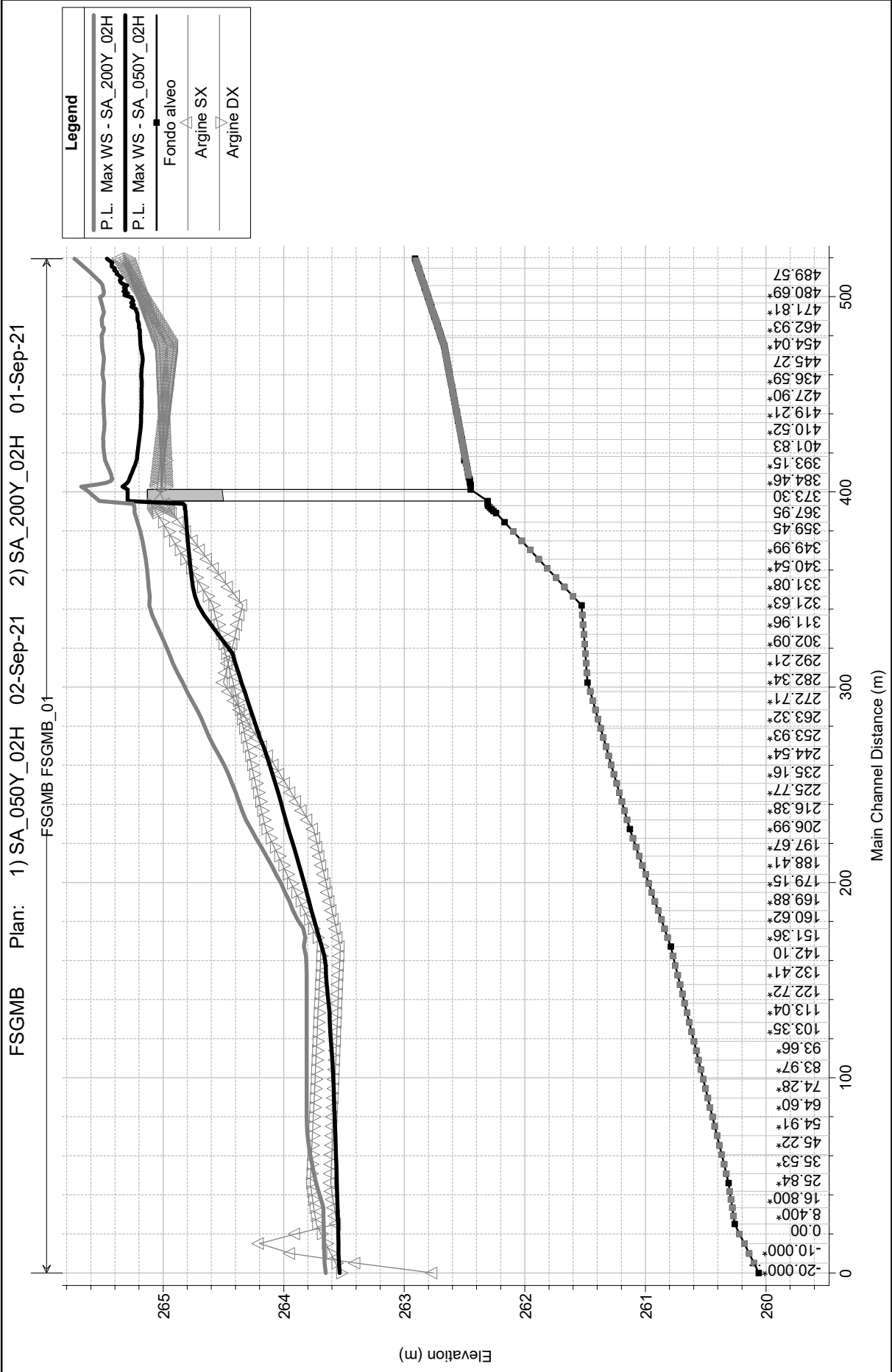
HEC-RAS Plan: SA-Q30+50+200 River: FSSFR Reach: FSSFR_01

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Right	Mann Wtd Total	Froude # Chl
FSSFR_01	182.2	Tr=50 anni	3.20	373.32	374.43	374.26	374.62	0.099584	1.93	1.66		0.100		0.100	0.72
FSSFR_01	182.2	Tr=200 anni	6.80	373.32	374.90	374.70	375.19	0.108802	2.40	2.83		0.100		0.100	0.76
FSSFR_01	154.0	Tr=50 anni	3.20	370.78	371.83	371.82	372.08	0.166689	2.23	1.43		0.100		0.100	0.98
FSSFR_01	154.0	Tr=200 anni	6.80	370.78	372.23	372.22	372.51	0.145600	2.33	2.91		0.100		0.100	0.98
FSSFR_01	120.4	Tr=50 anni	3.20	365.45	366.08	366.10	366.34	0.169049	2.27	1.41		0.100		0.100	1.05
FSSFR_01	120.4	Tr=200 anni	6.80	365.45	366.66	366.44	366.86	0.067182	2.01	3.38		0.100		0.100	0.69
FSSFR_01	119.9	Tr=50 anni	3.20	365.10	366.02	365.75	366.12	0.043403	1.41	2.28		0.100		0.100	0.54
FSSFR_01	119.9	Tr=200 anni	6.80	365.10	366.71	366.10	366.81	0.024079	1.38	4.92		0.100		0.100	0.42
FSSFR_01	115.1		Bridge												
FSSFR_01	110.2	Tr=50 anni	3.20	364.38	365.14	365.22	365.45	0.275610	2.46	1.30		0.100		0.100	1.29
FSSFR_01	110.2	Tr=200 anni	6.80	364.38	365.27	365.51	366.00	0.494394	3.78	1.80		0.100		0.100	1.78
FSSFR_01	51.1	Tr=50 anni	3.20	349.43	349.90	349.97	350.19	0.262051	2.42	1.32		0.100		0.100	1.32
FSSFR_01	51.1	Tr=200 anni	6.80	349.43	350.10	350.25	350.60	0.282961	3.13	2.17		0.100		0.100	1.43
FSSFR_01	9.4	Tr=50 anni	3.20	339.68	340.38	340.44	340.68	0.212620	2.45	1.31		0.100		0.100	1.17
FSSFR_01	9.4	Tr=200 anni	6.80	339.68	340.67	340.77	341.12	0.211413	2.99	2.28		0.100		0.100	1.22

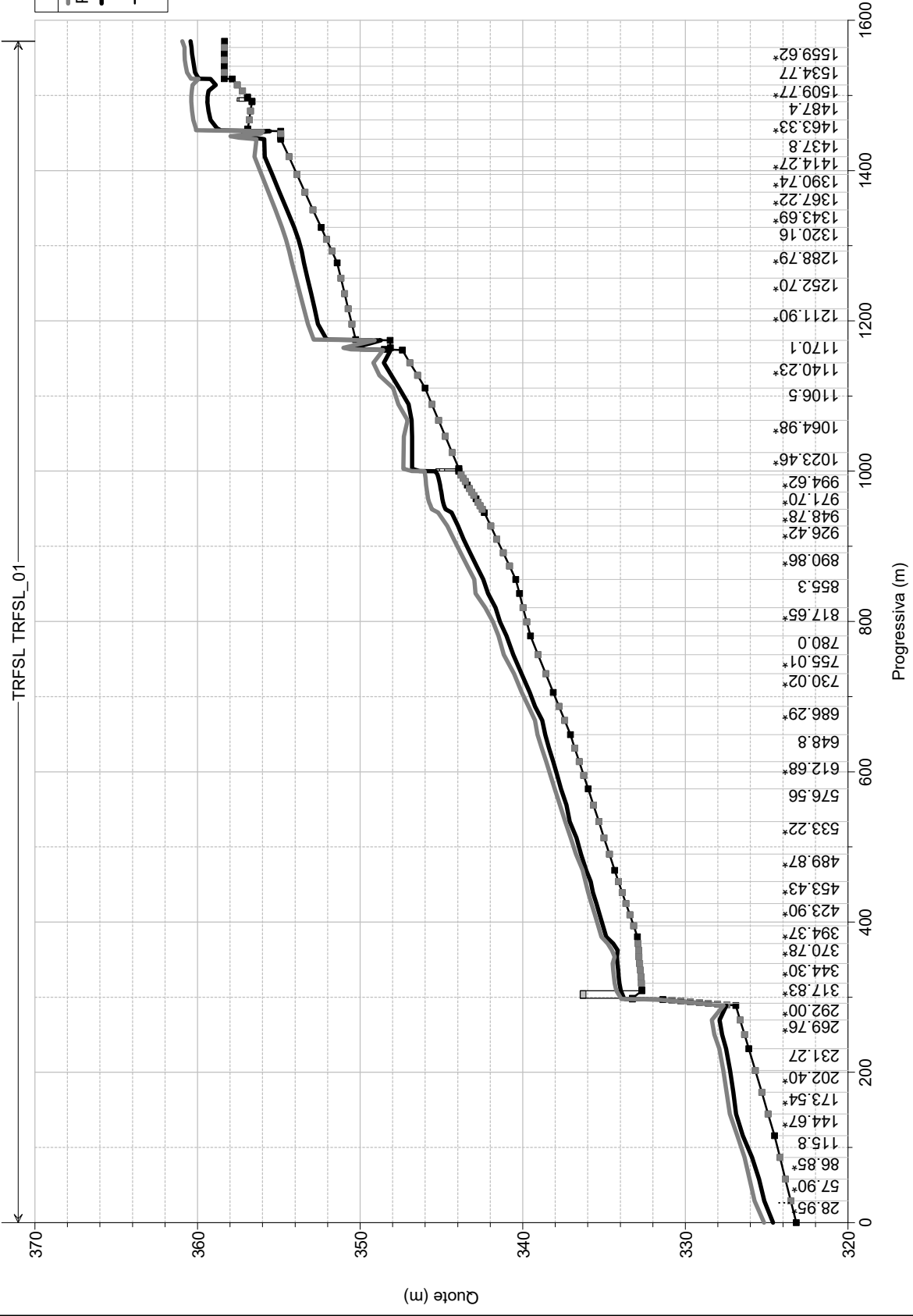
2.

PROFILI LONGITUDINALI DI PELO LIBERO (massimo tirante idrico)

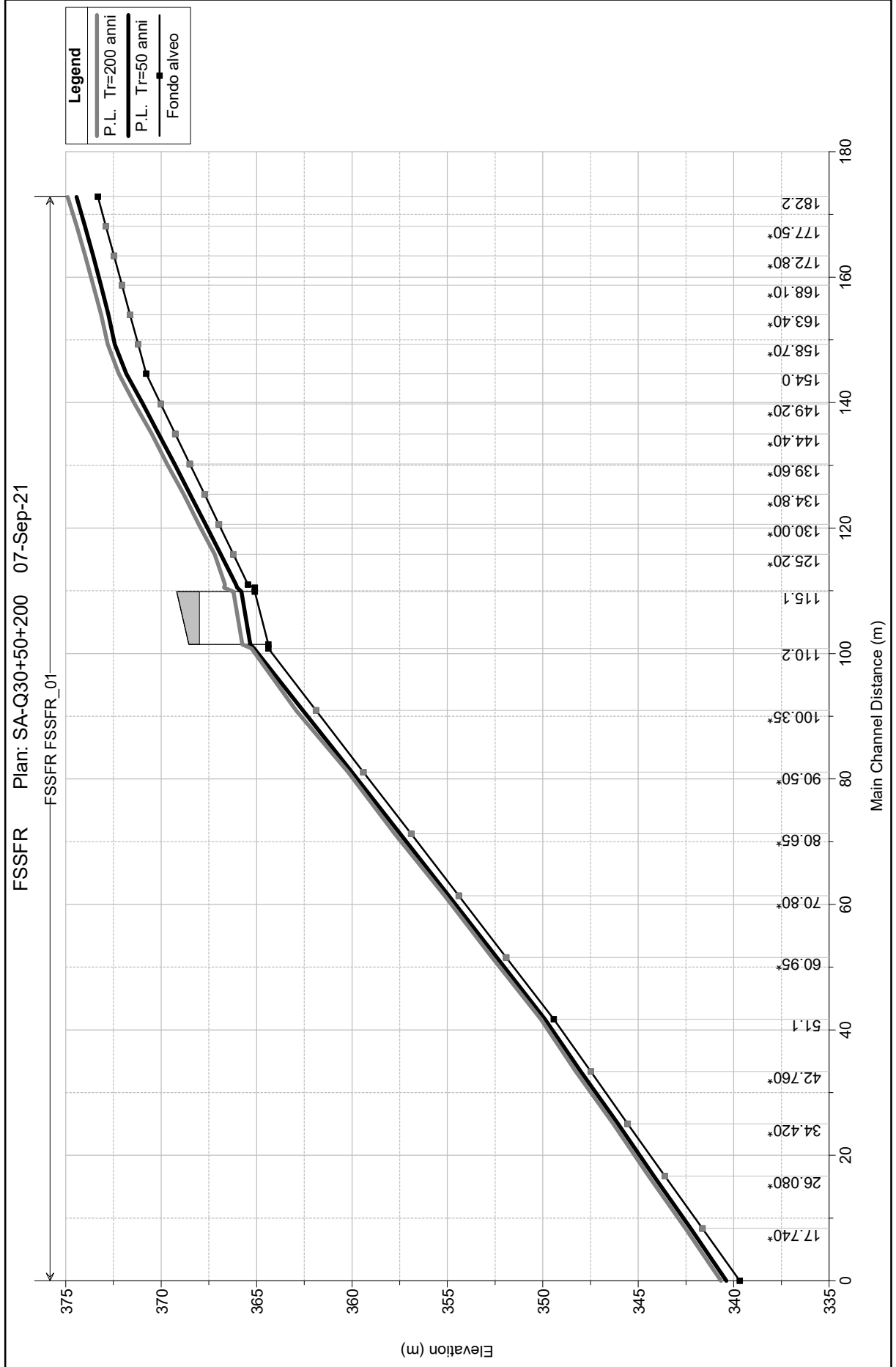
FSGMB - F.so Gamberaio



TRFSL - T. Fossalto



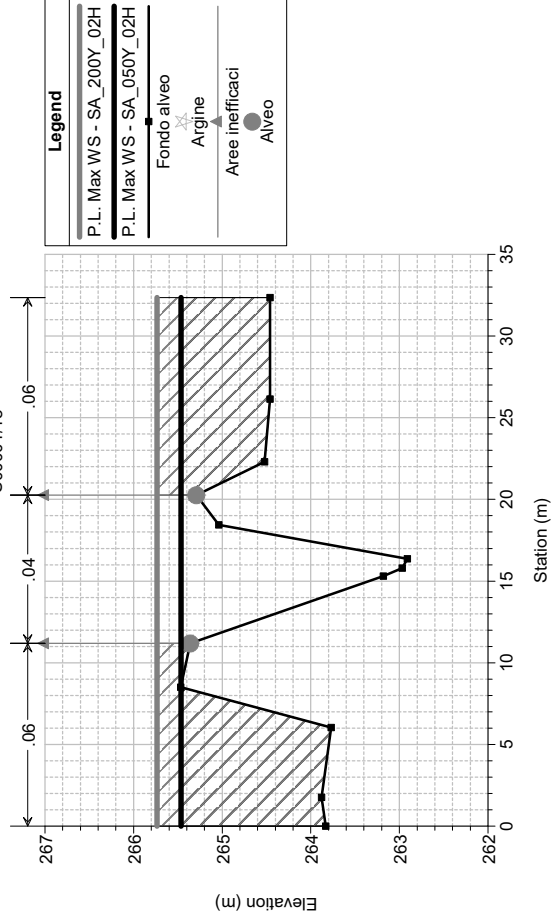
TRSFR - T. San Francesco



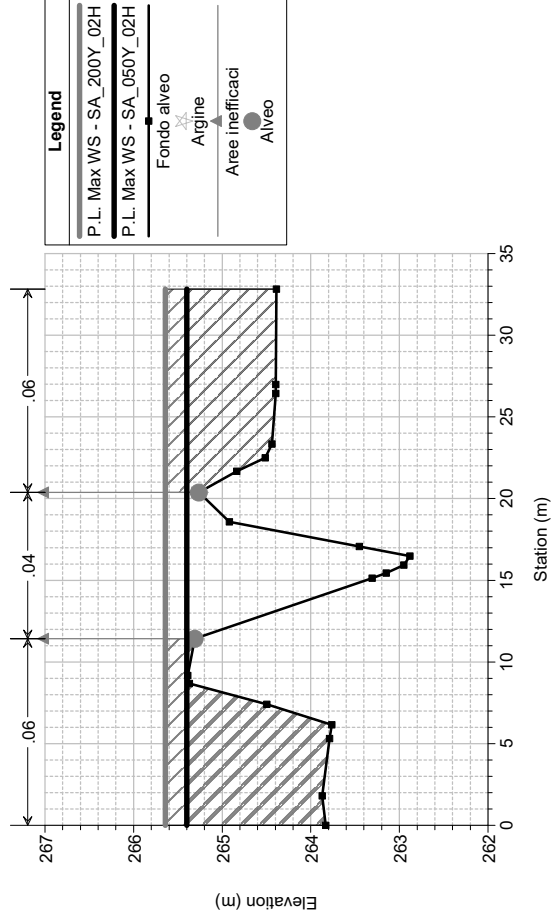
3.
SEZIONI TRASVERSALI
(istante di massimo tirante idrico)

FSGMB - F.so Gamberaio

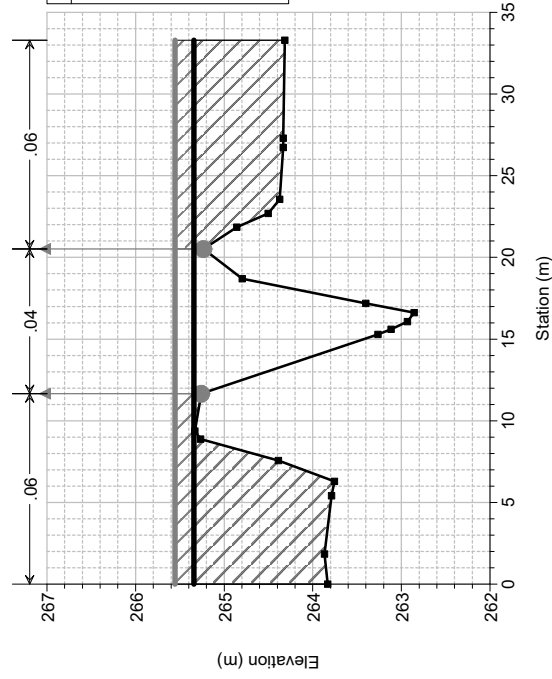
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S00001/18



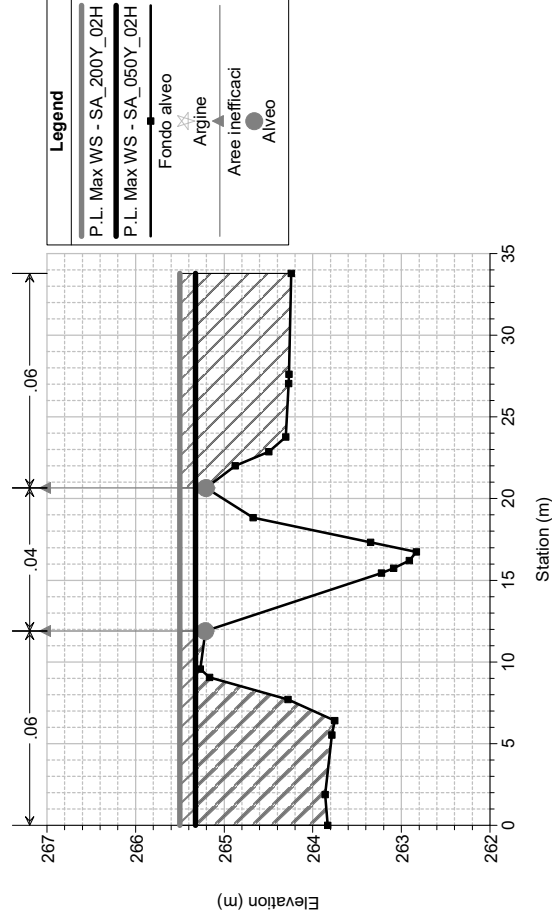
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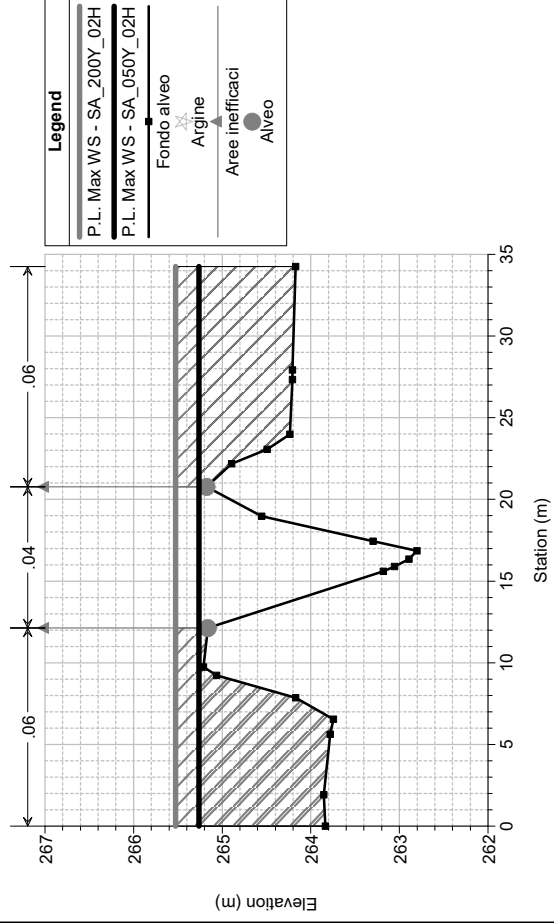
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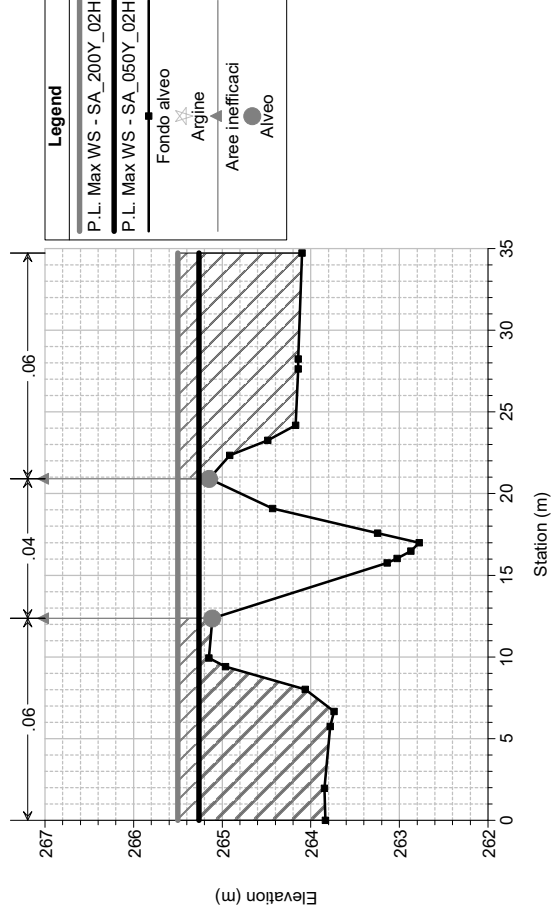
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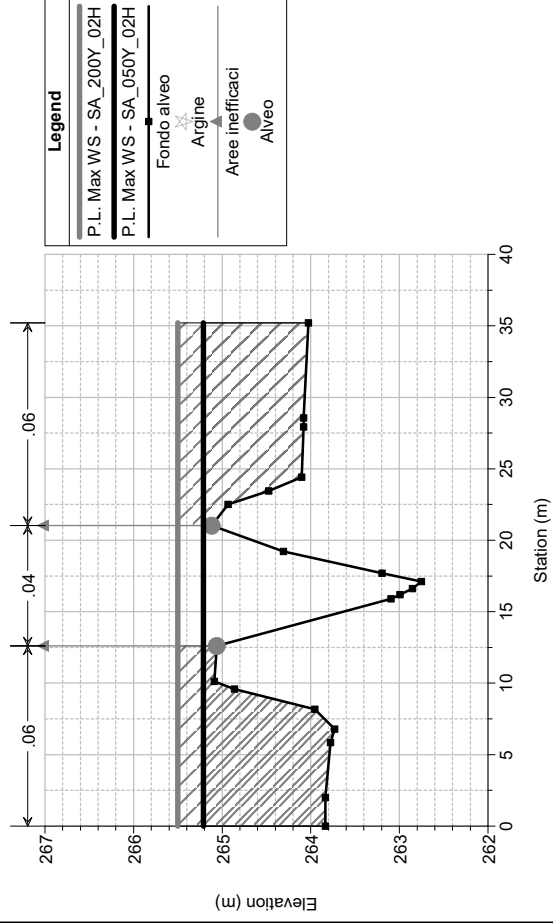
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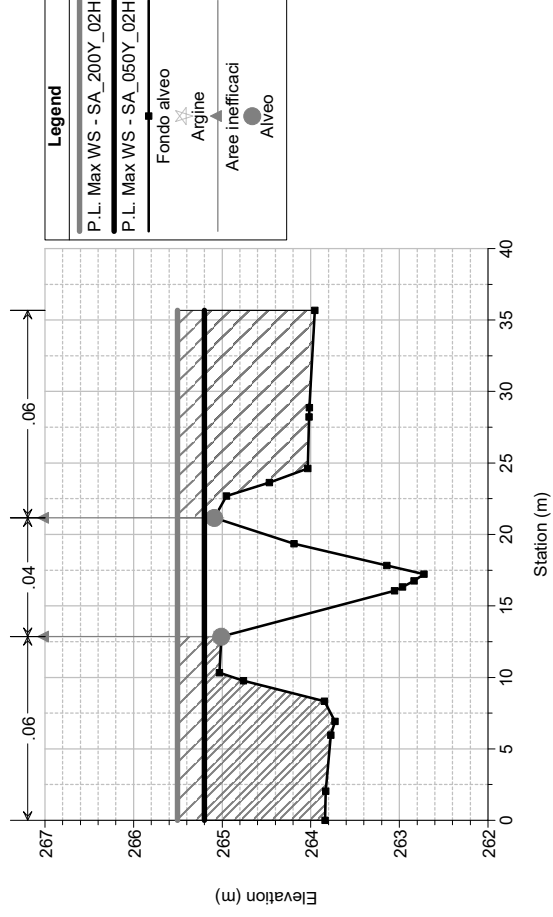
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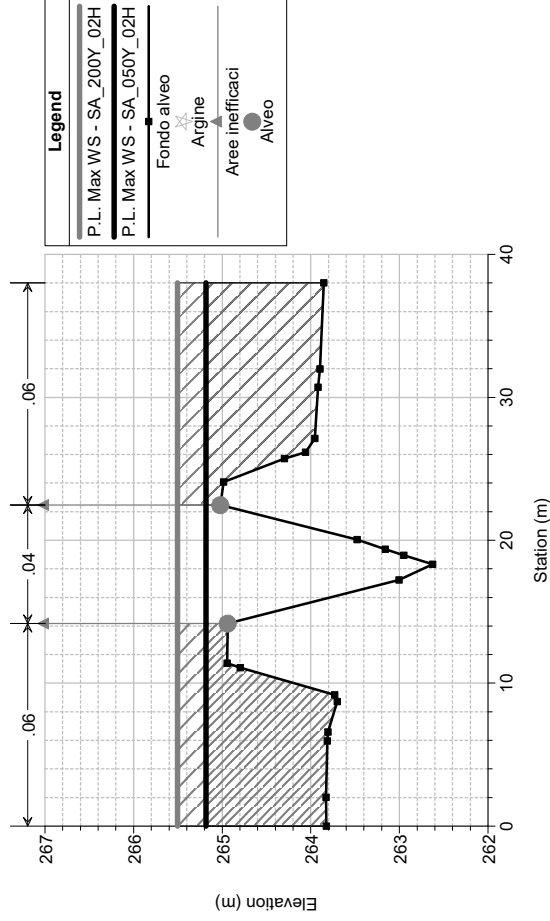
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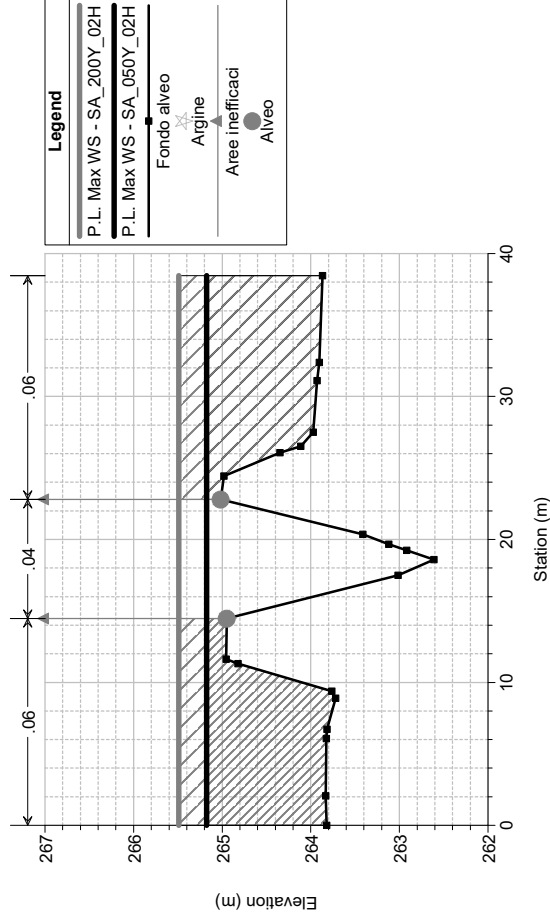
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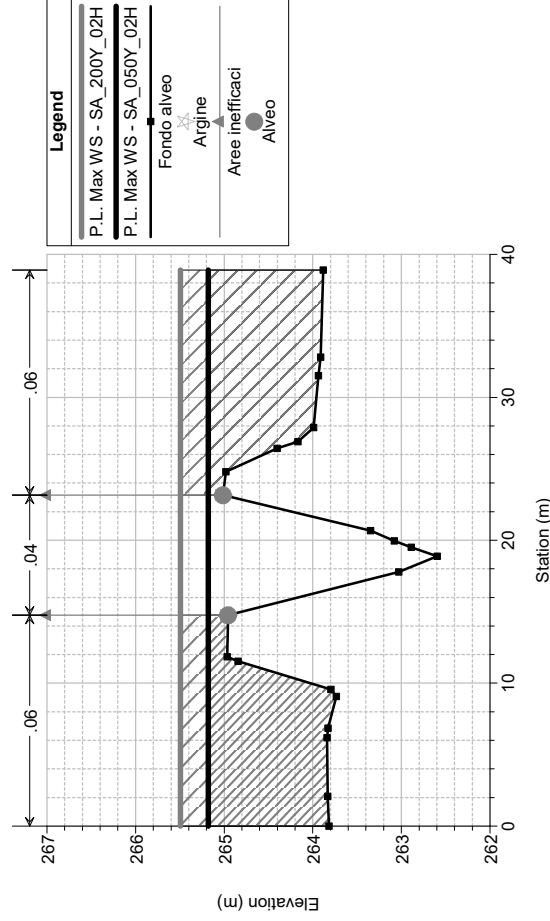
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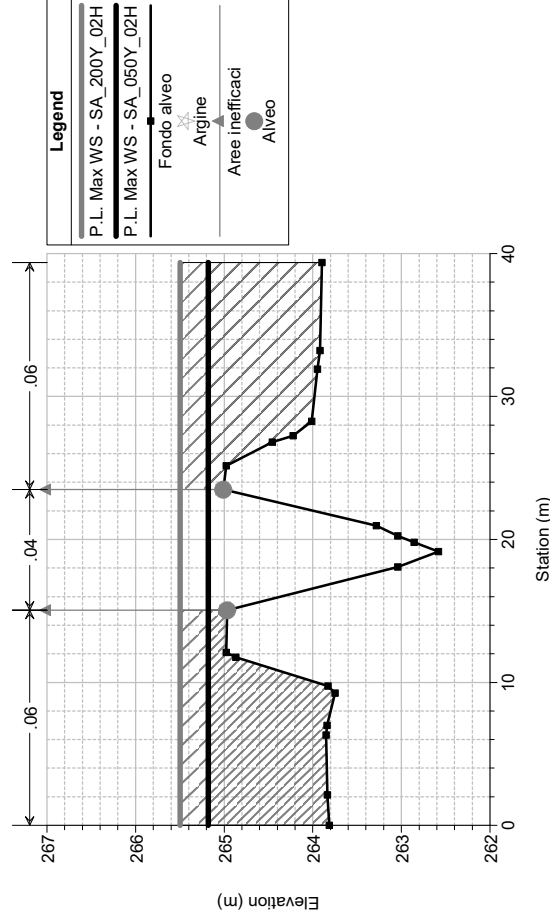
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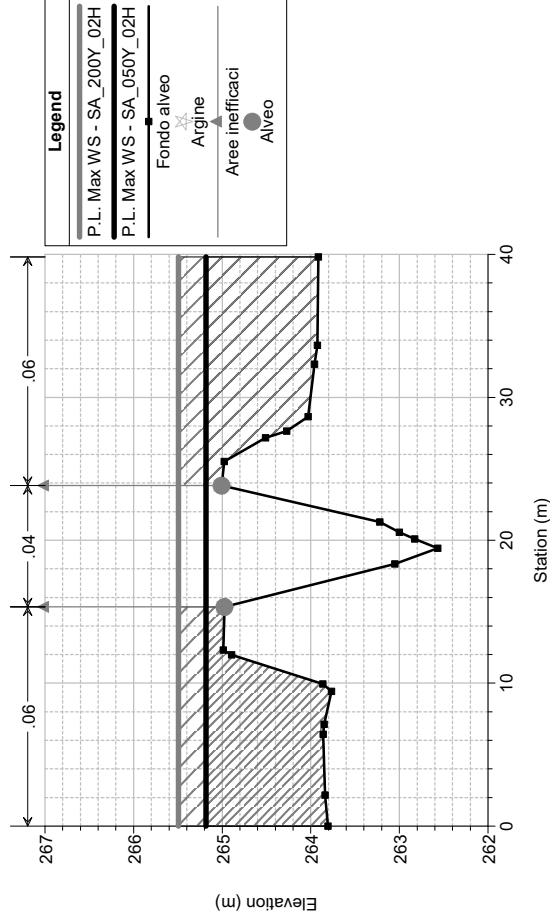
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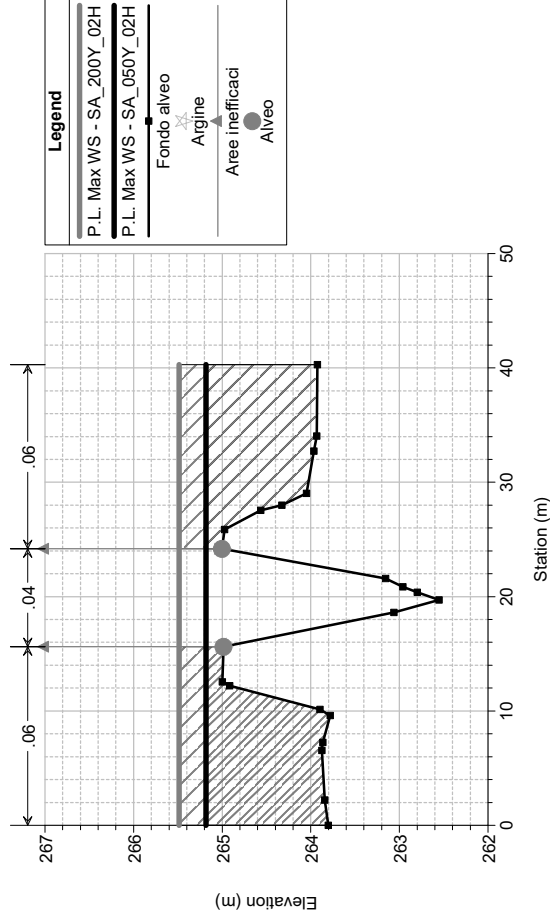
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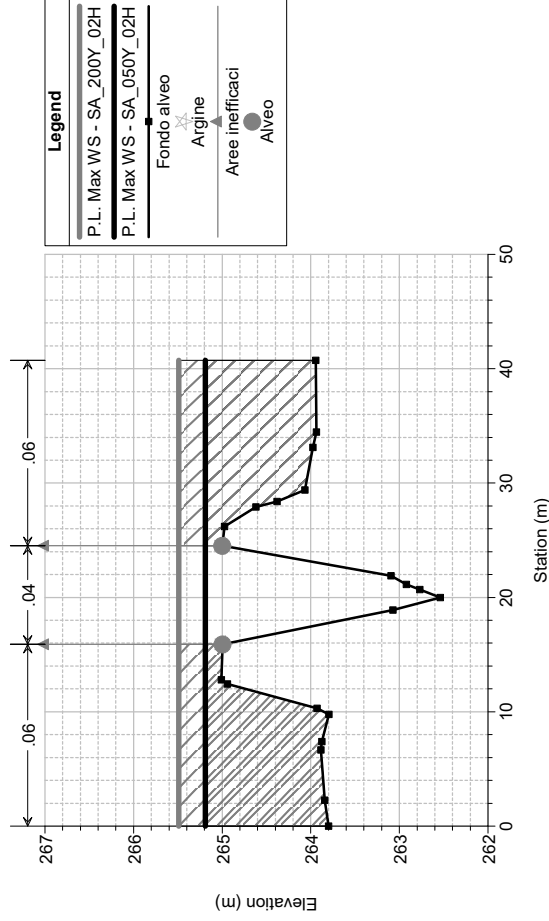
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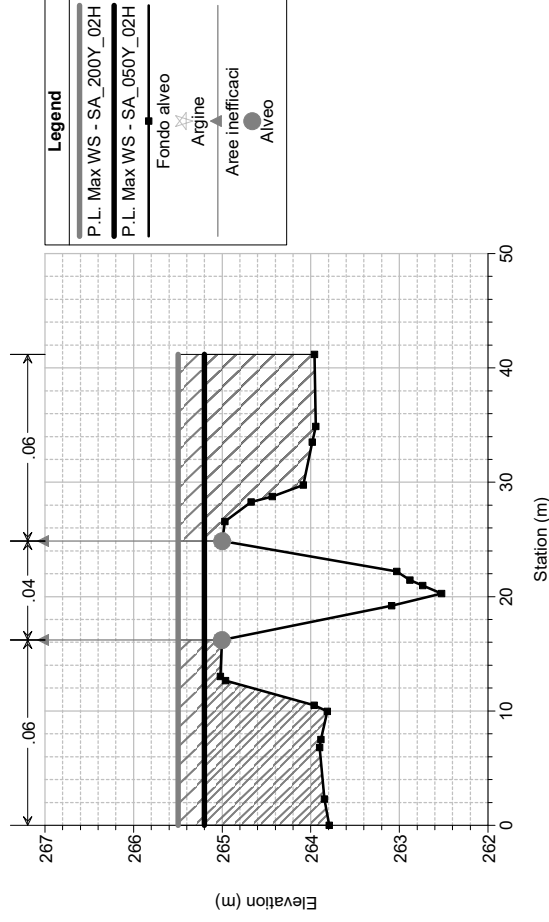
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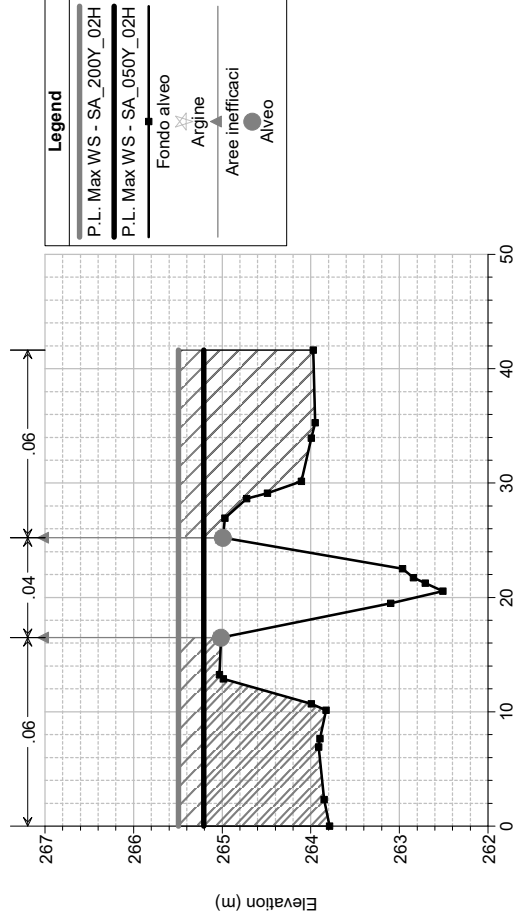
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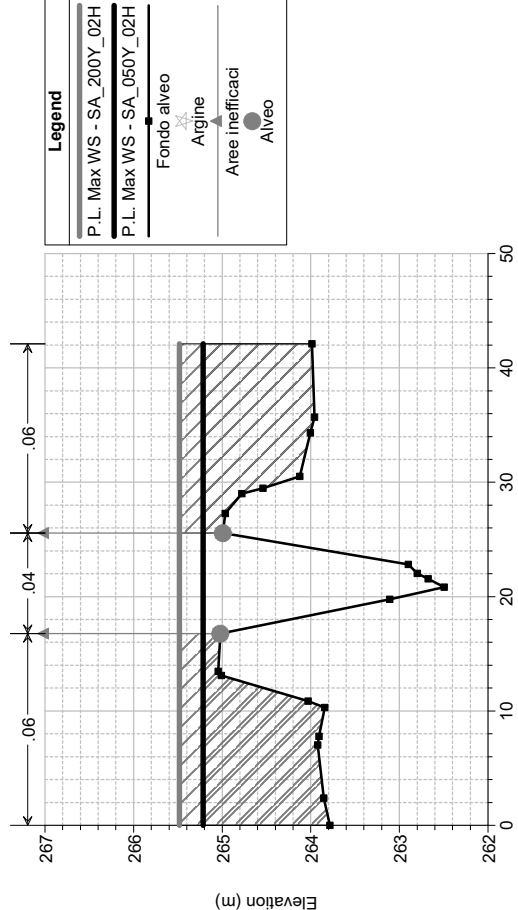
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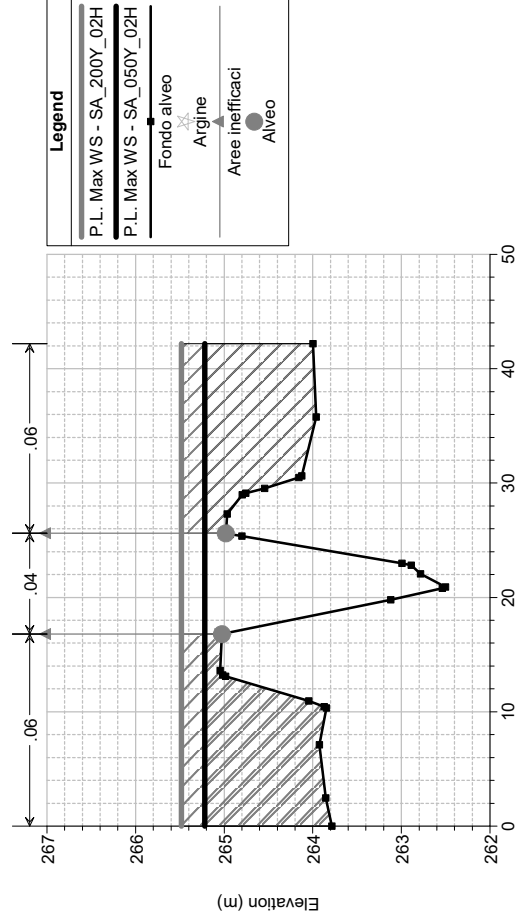
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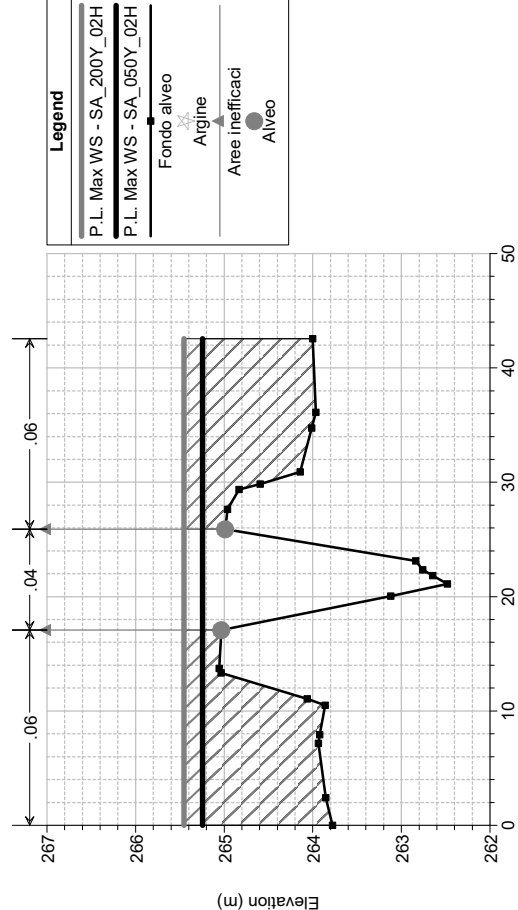
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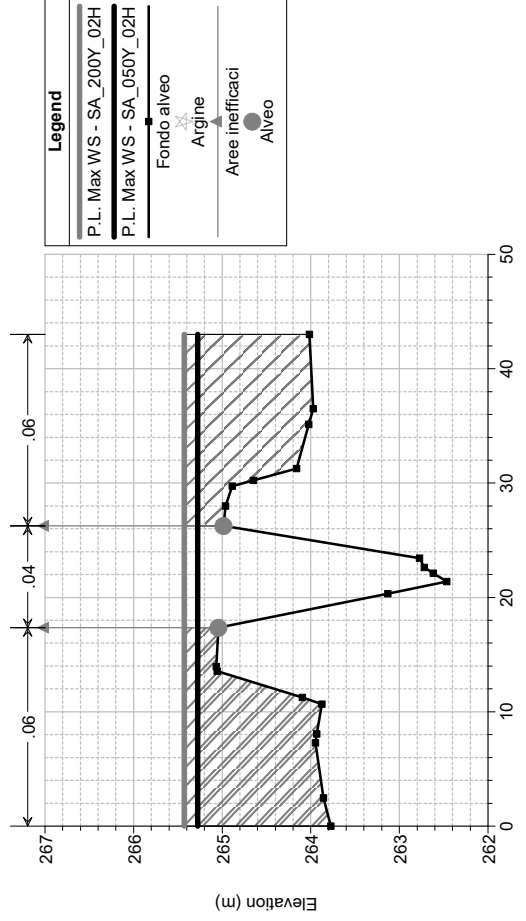
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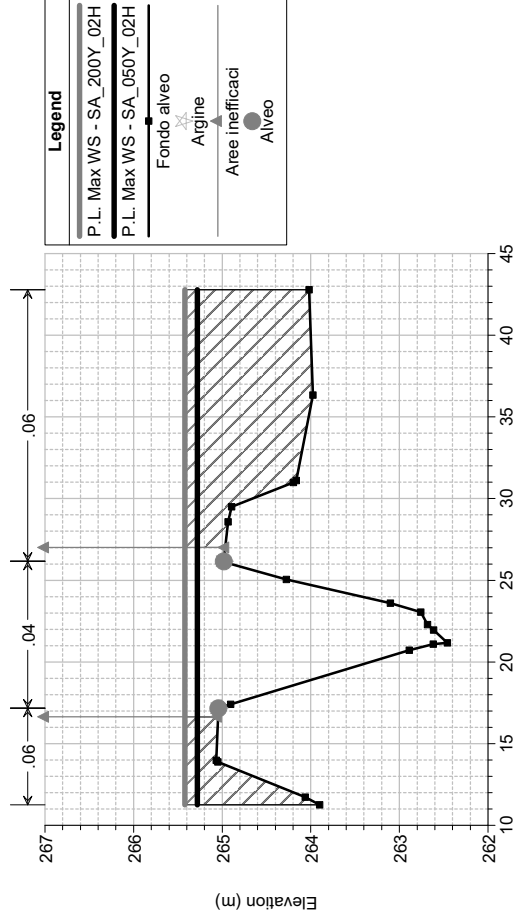
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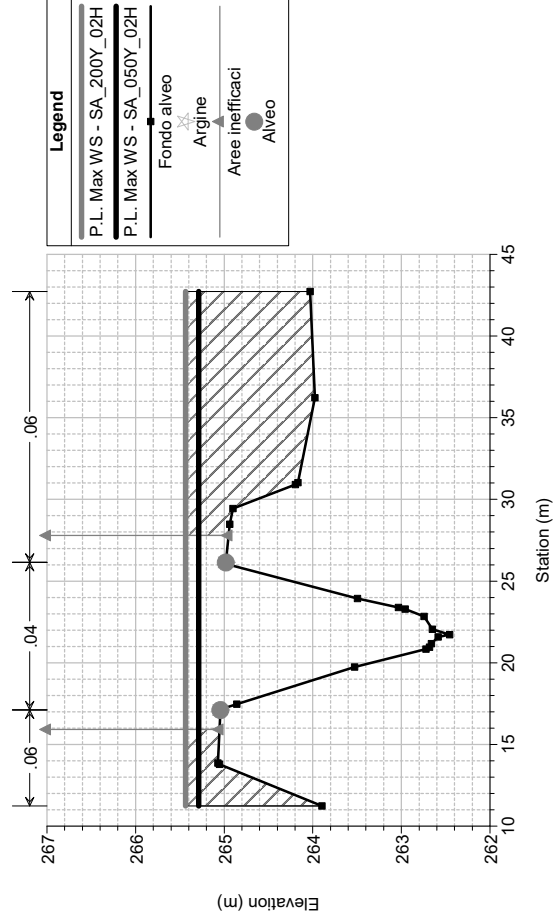
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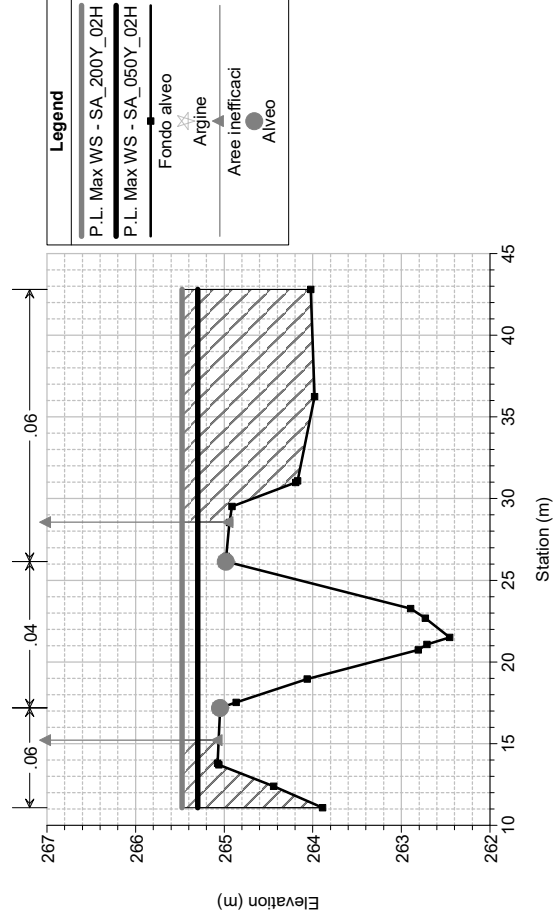
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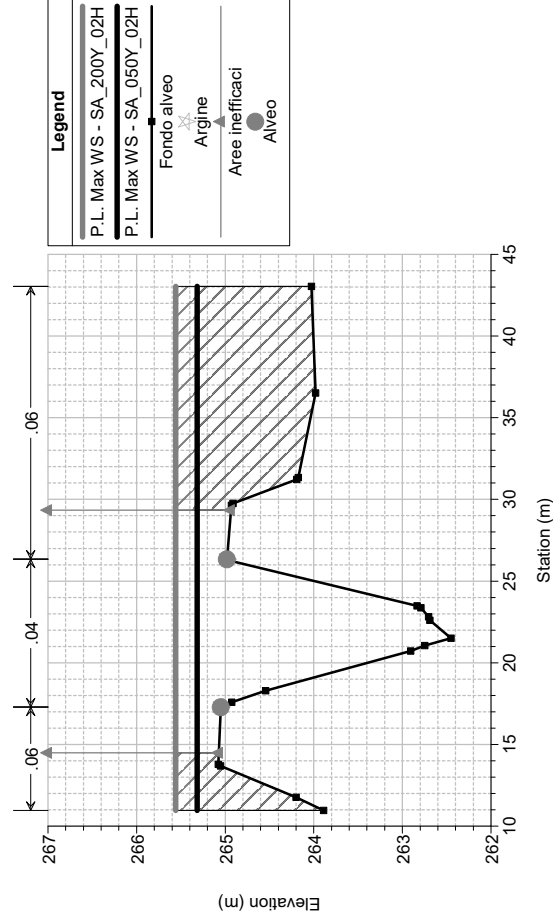
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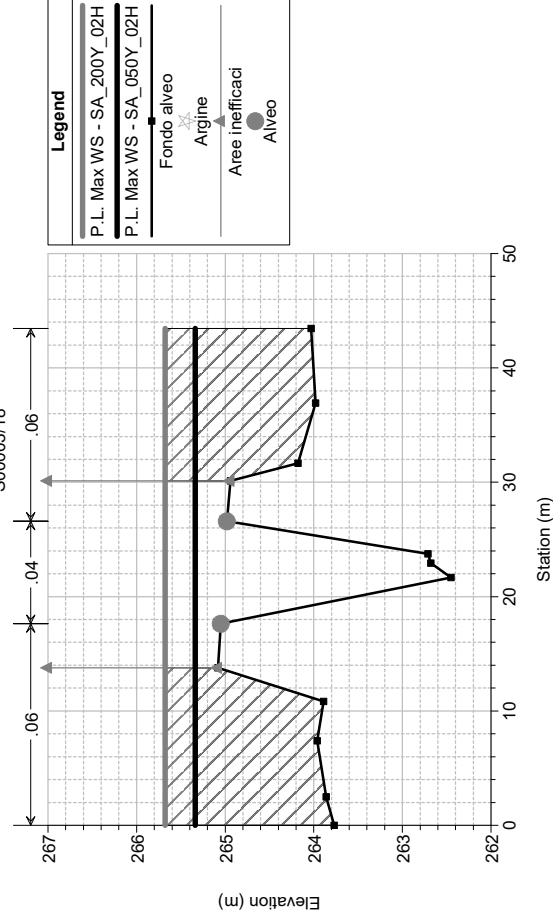
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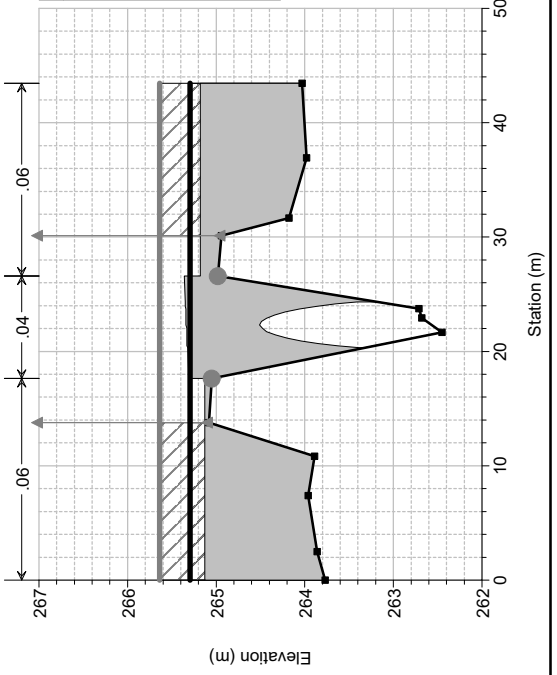
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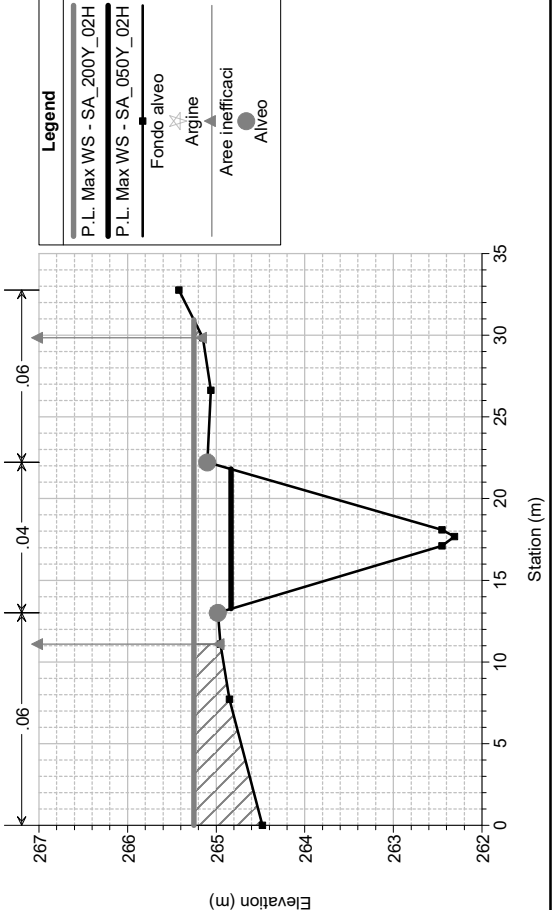
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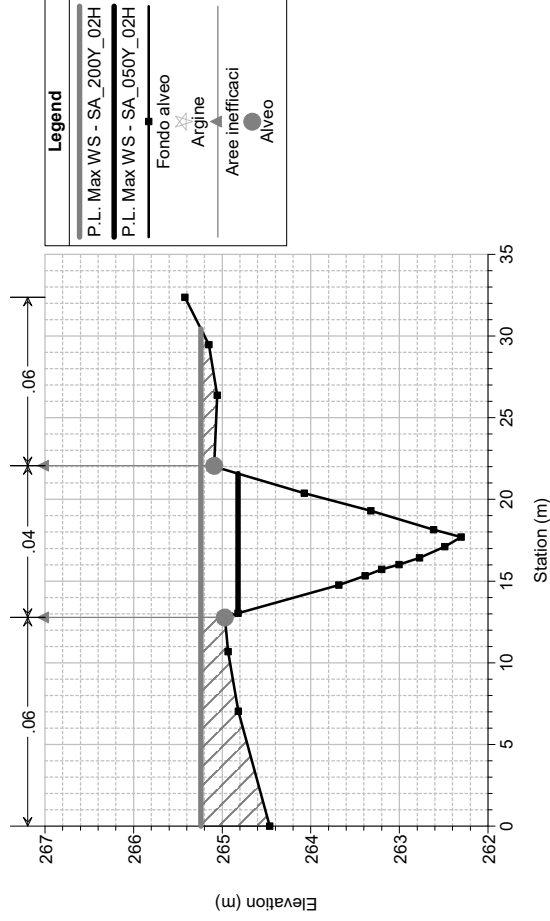
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SS0003/18 - S.C. Plan delle Lamacce



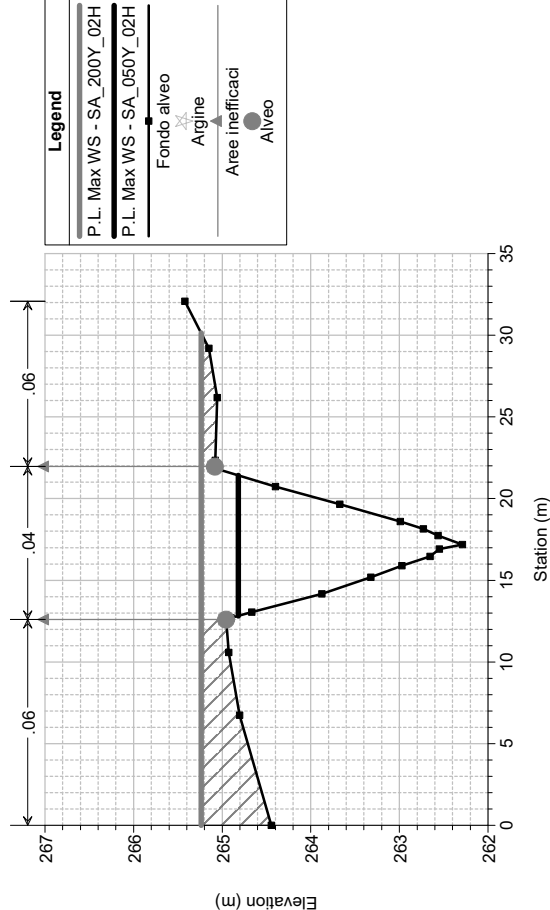
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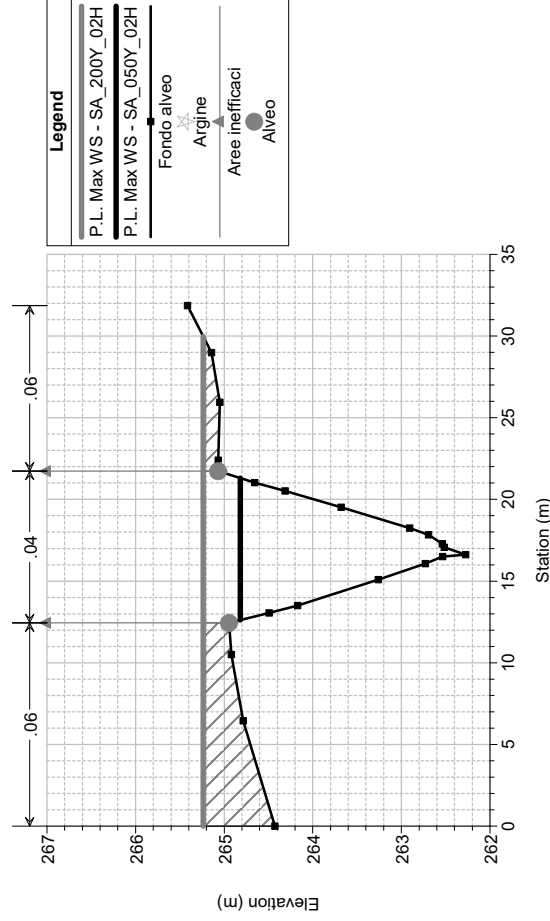
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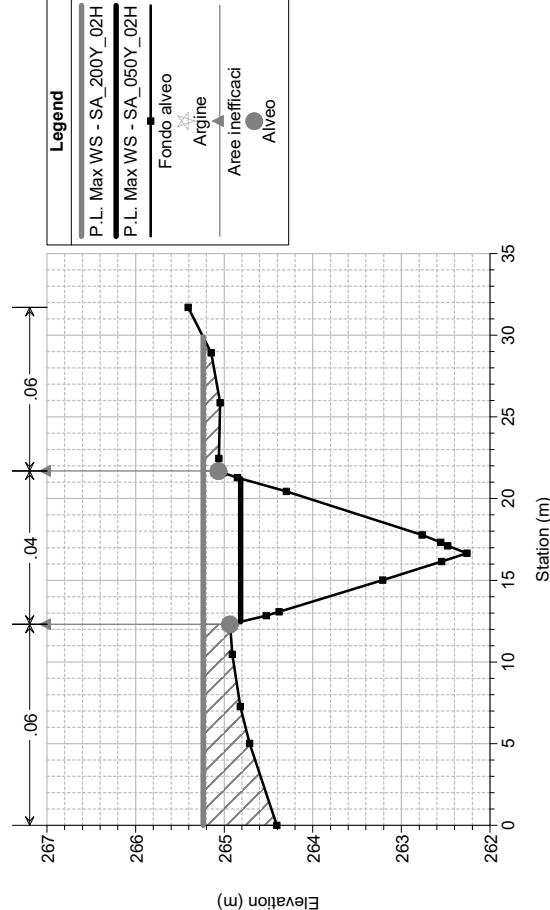
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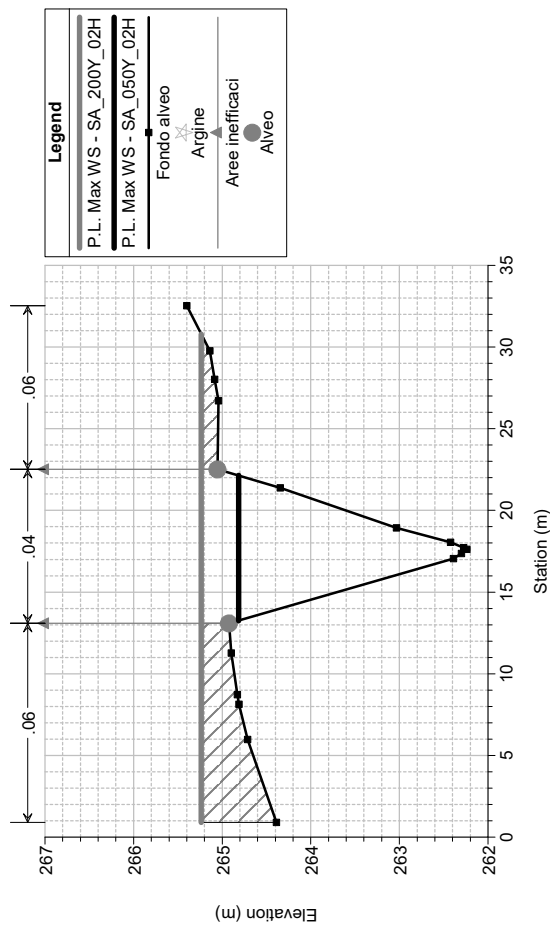
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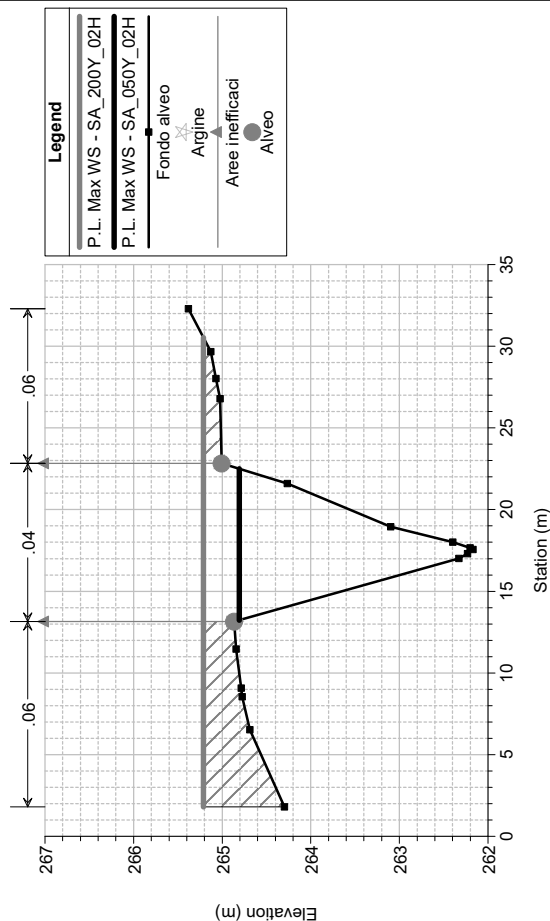
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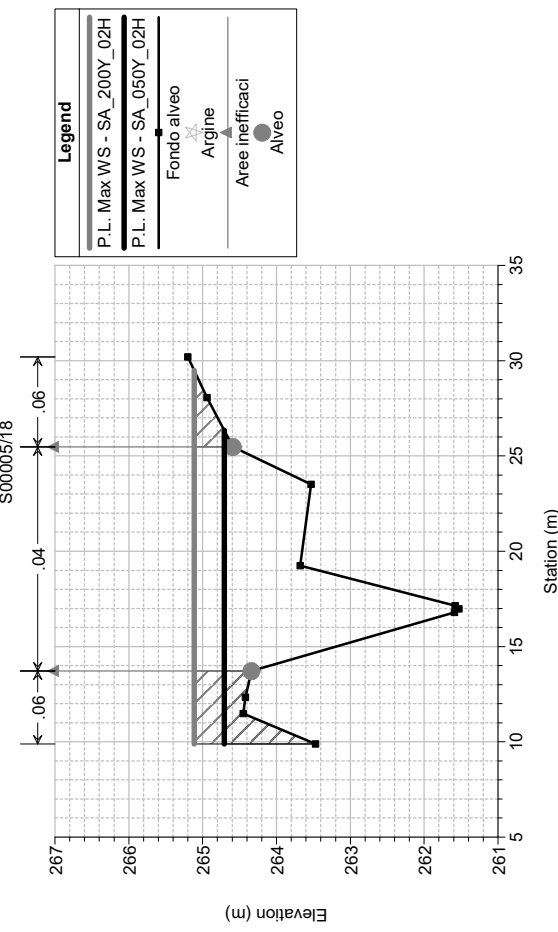
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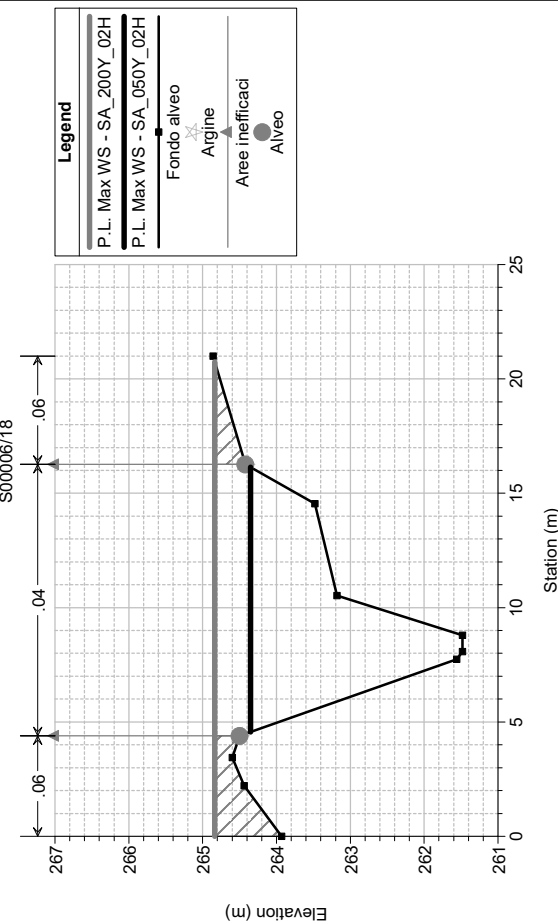
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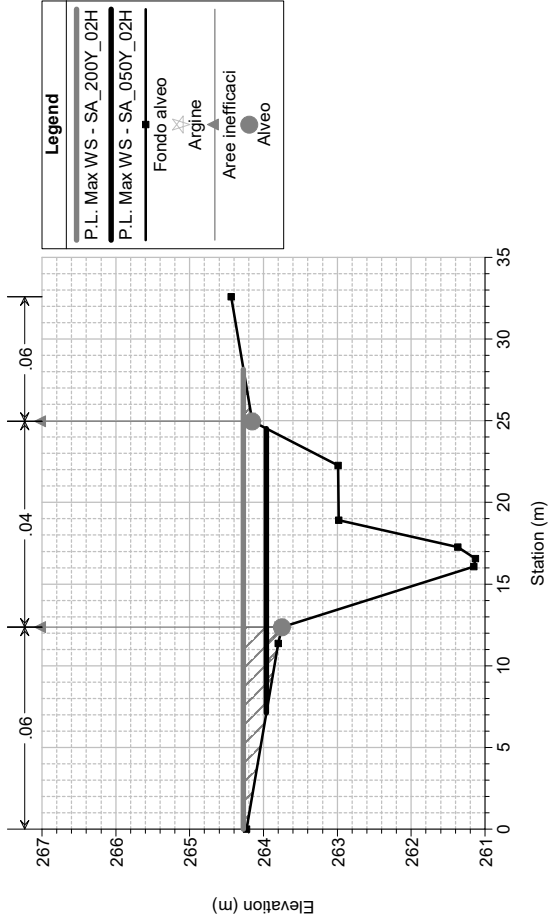
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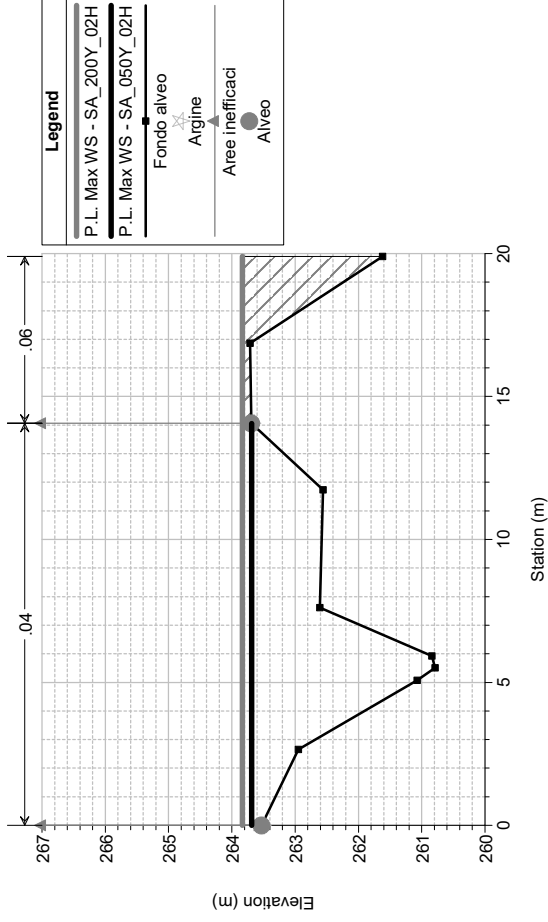
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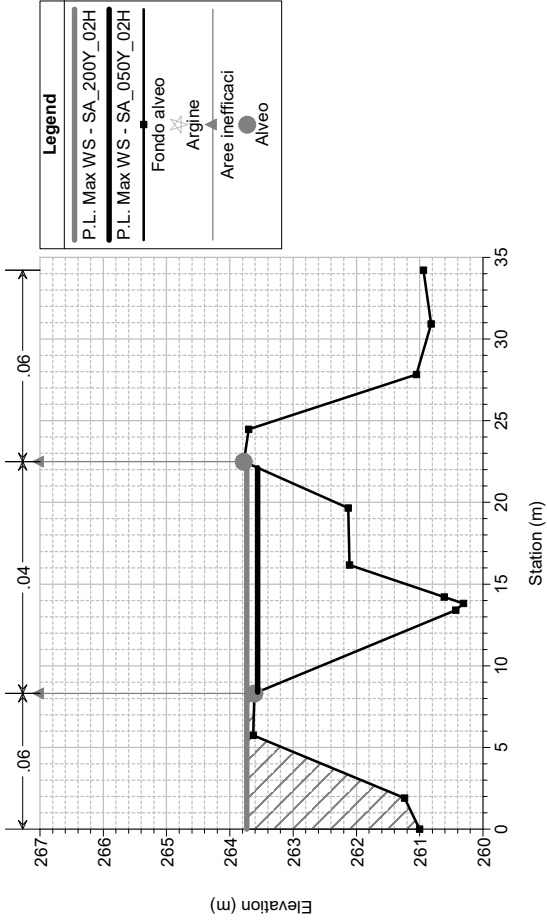
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S00007/18



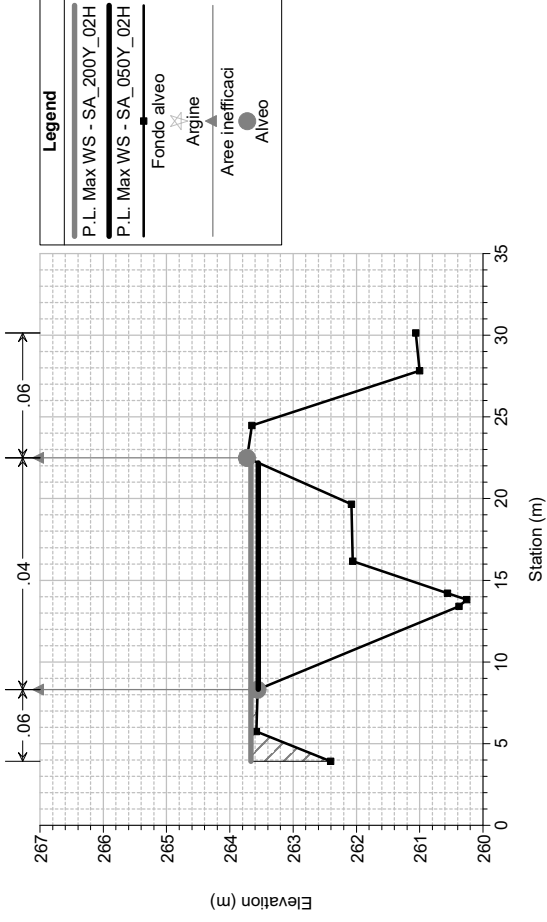
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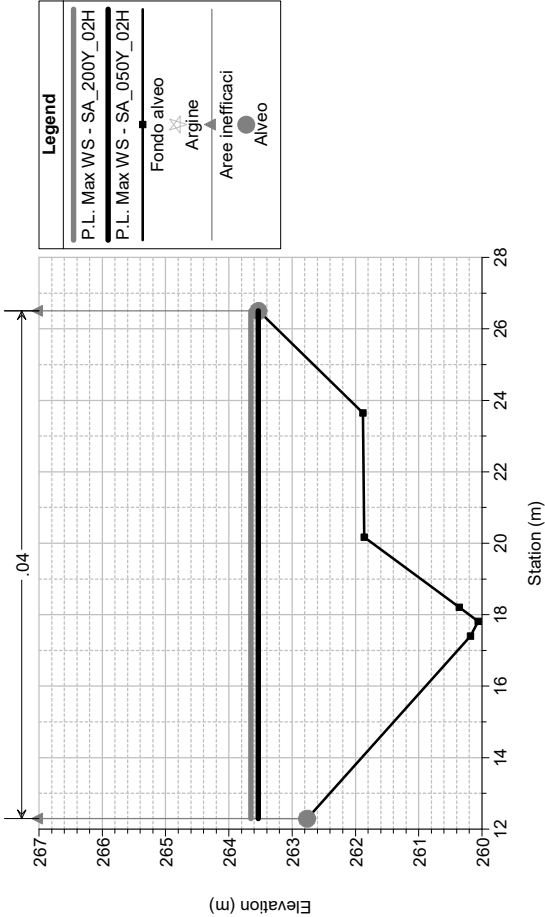
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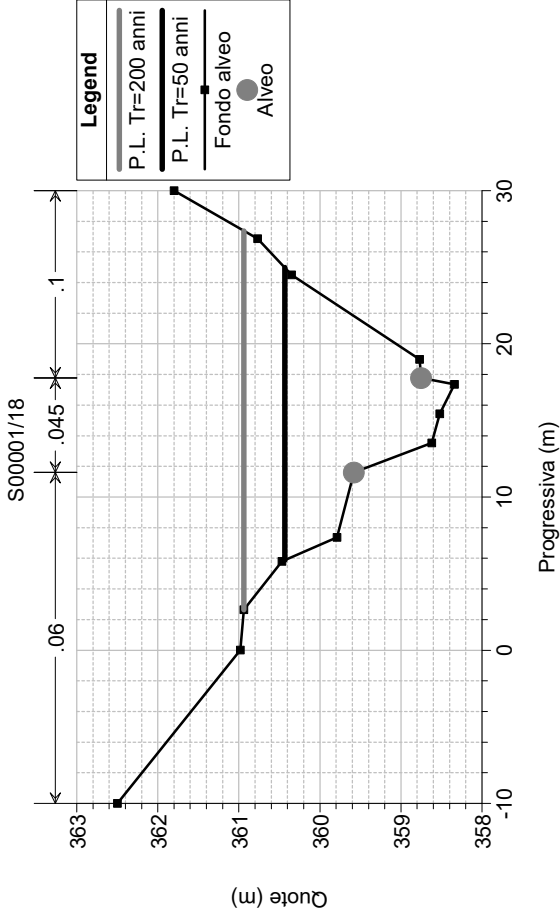


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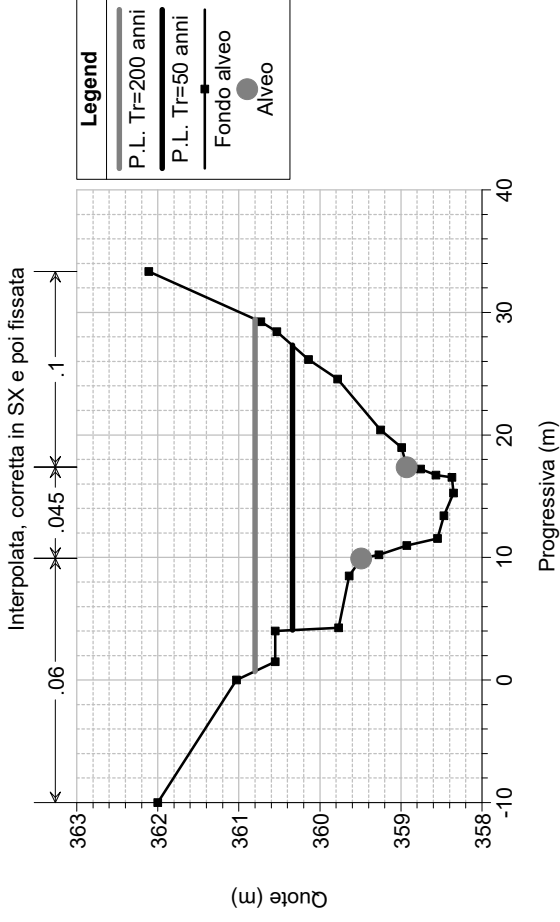


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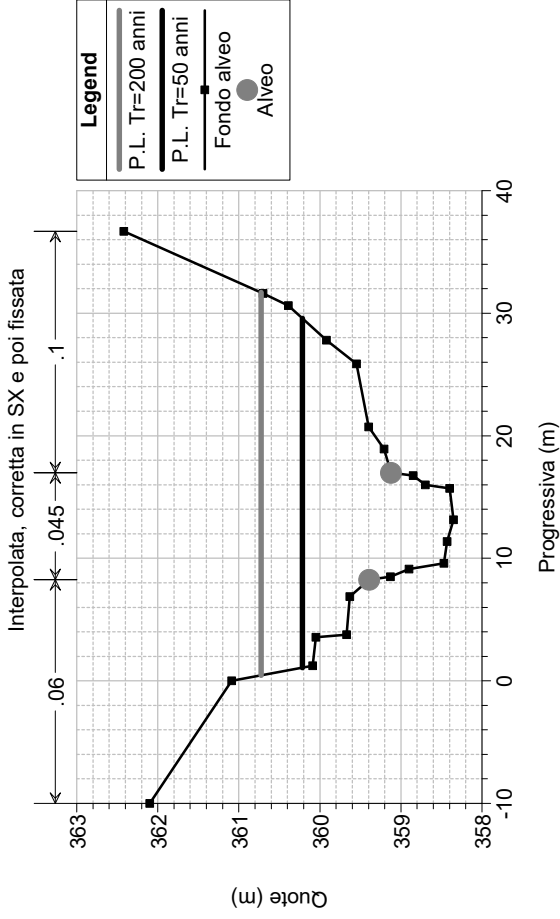
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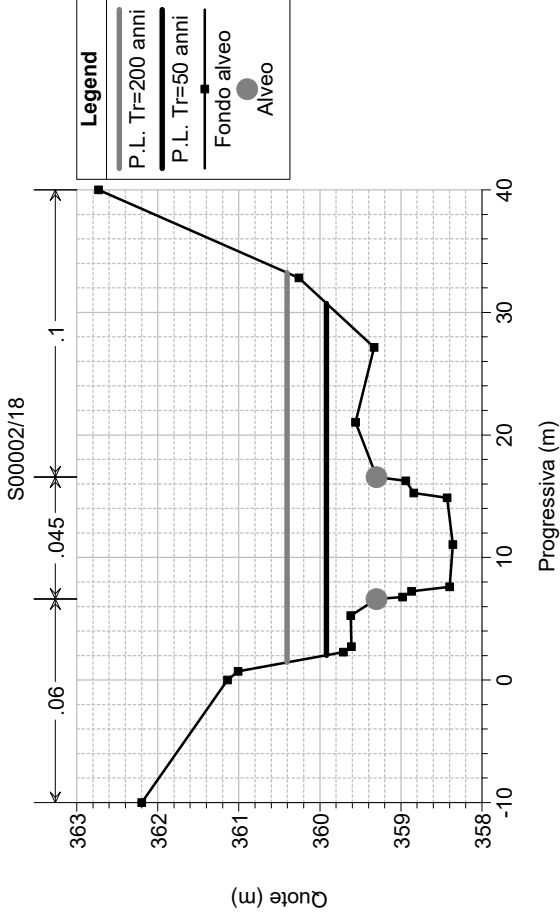
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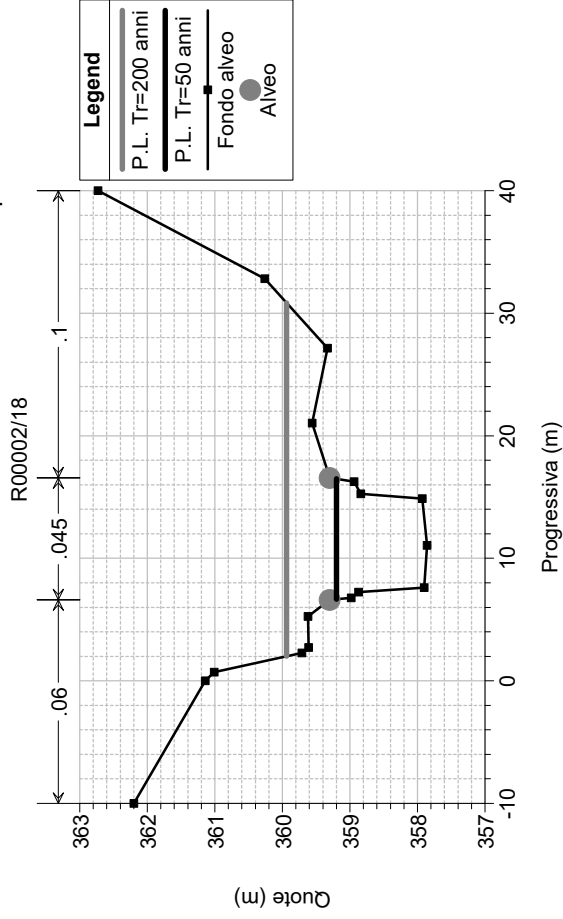
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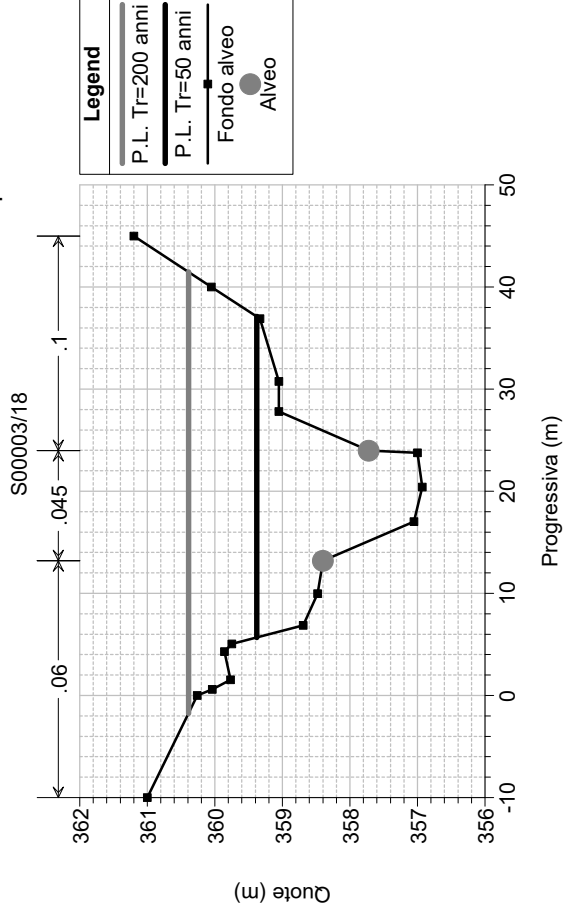
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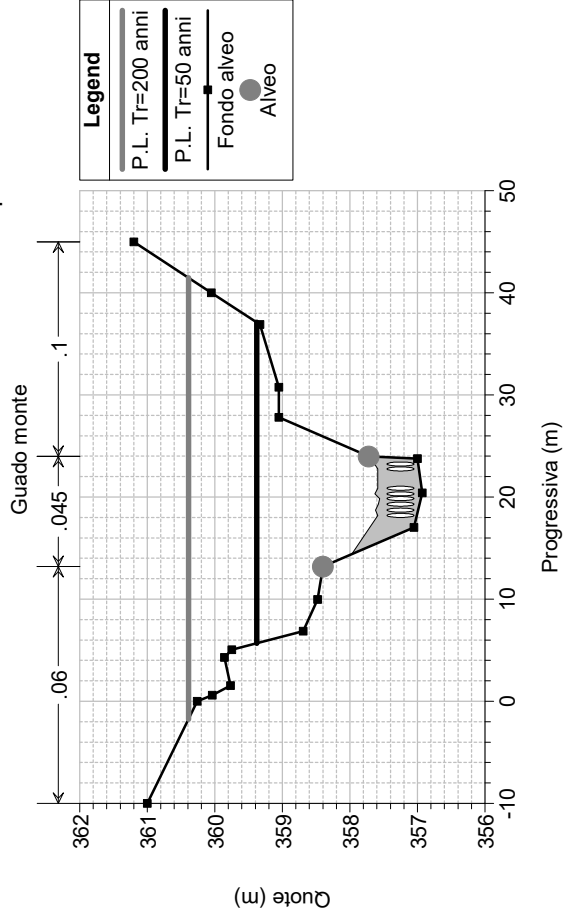
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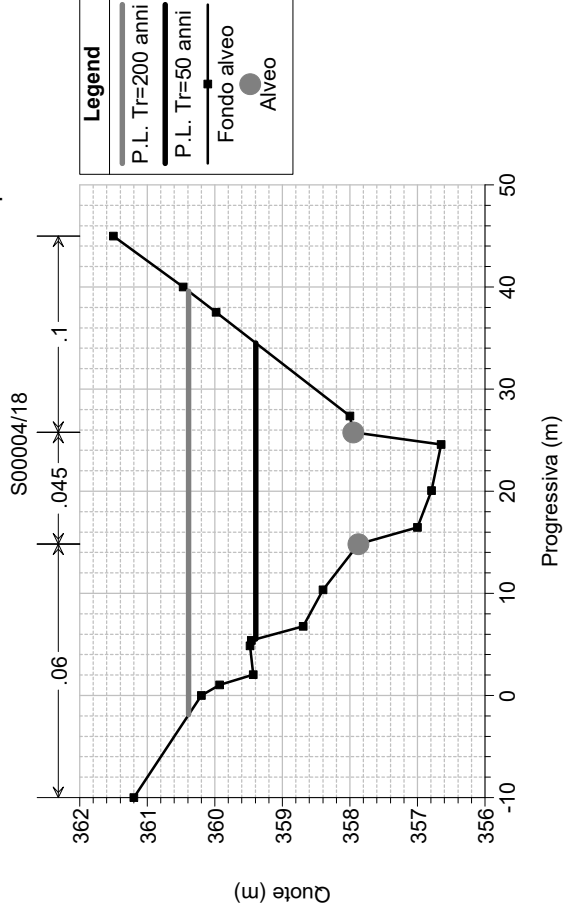
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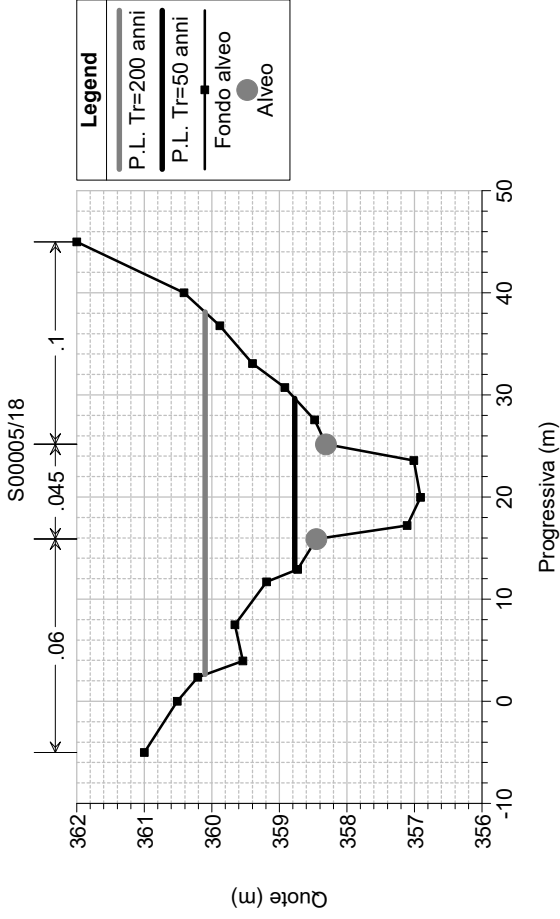
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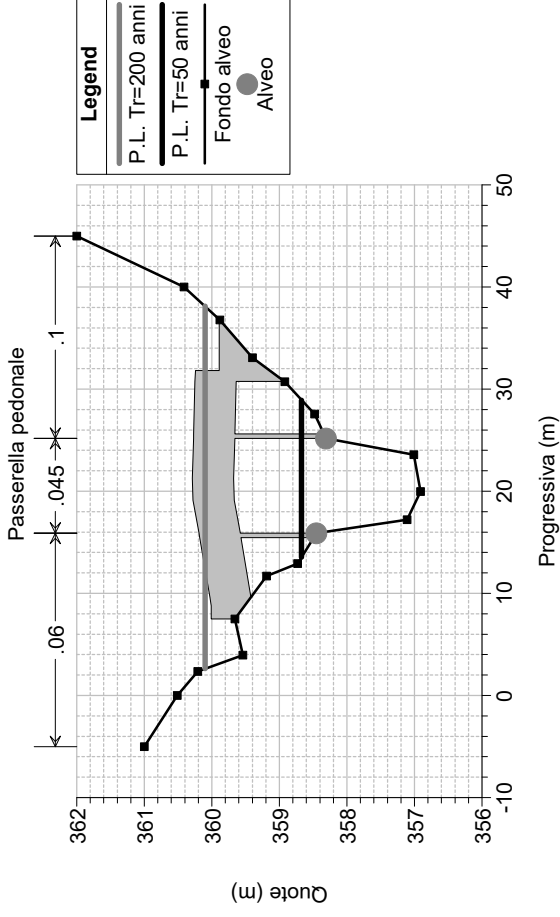
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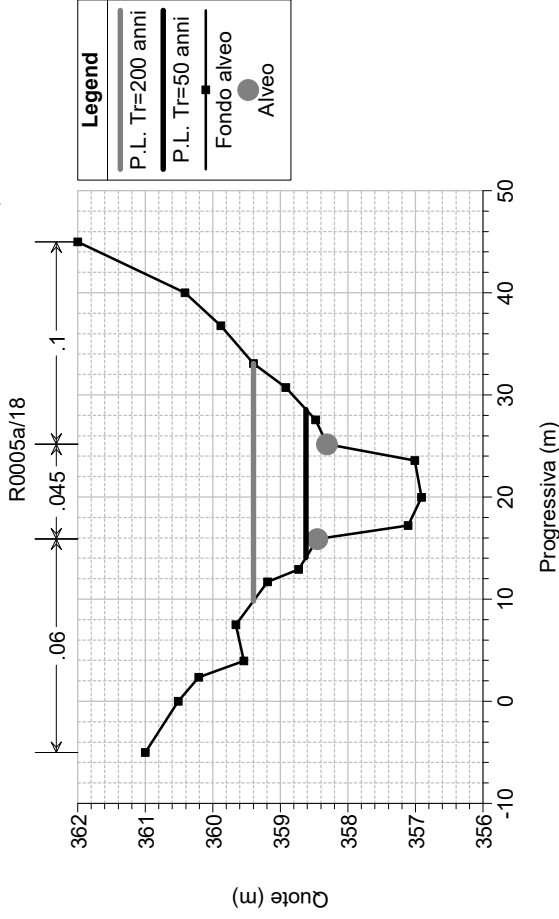
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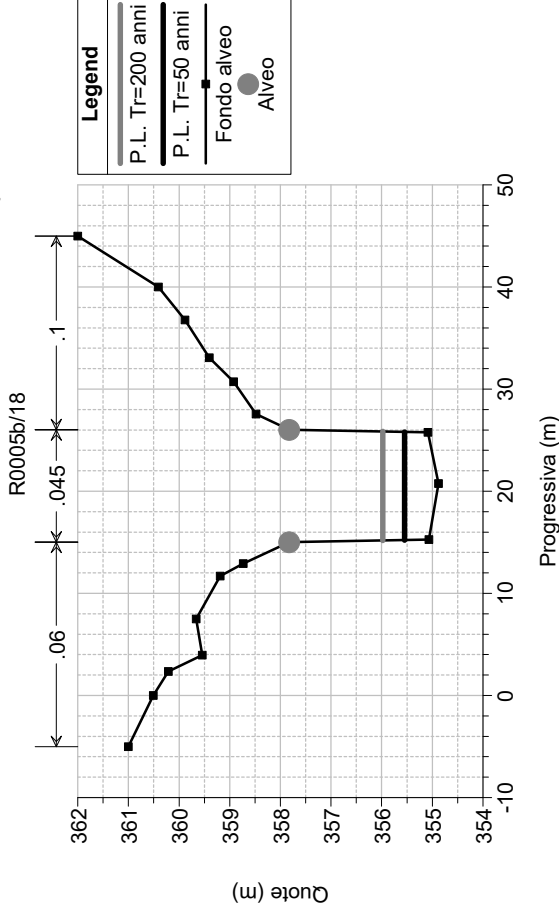
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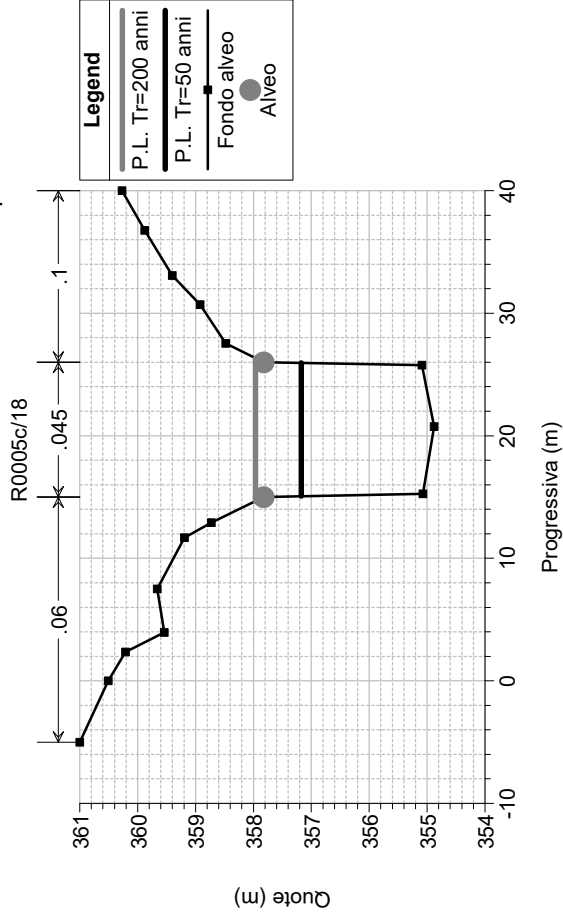
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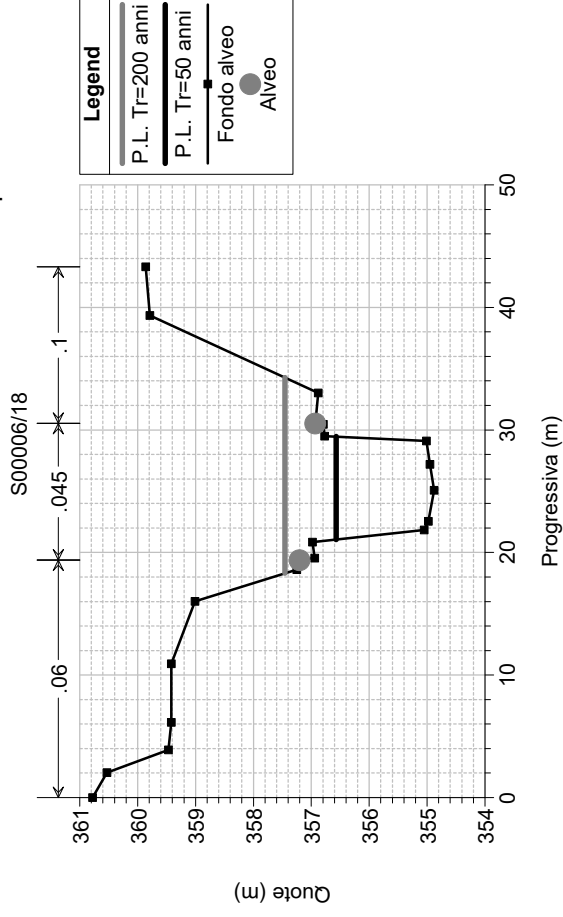
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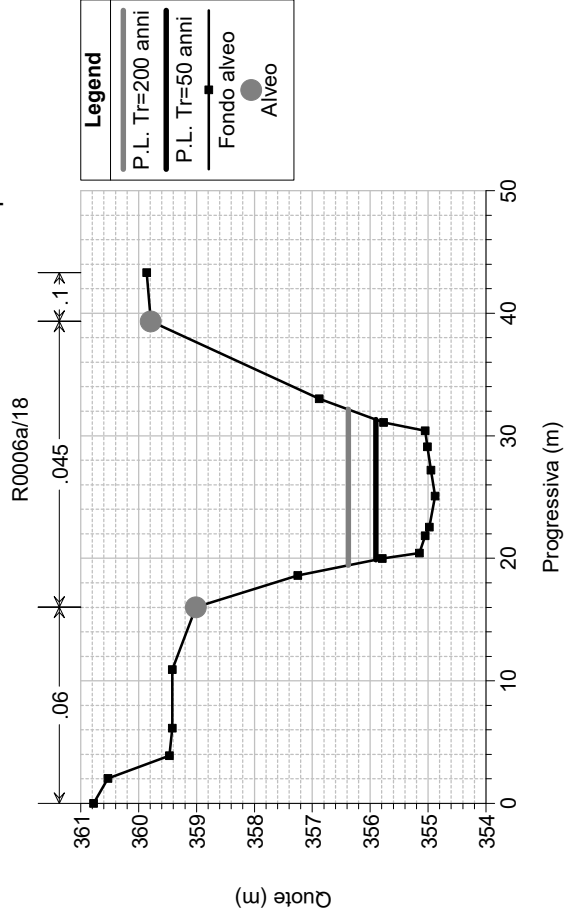
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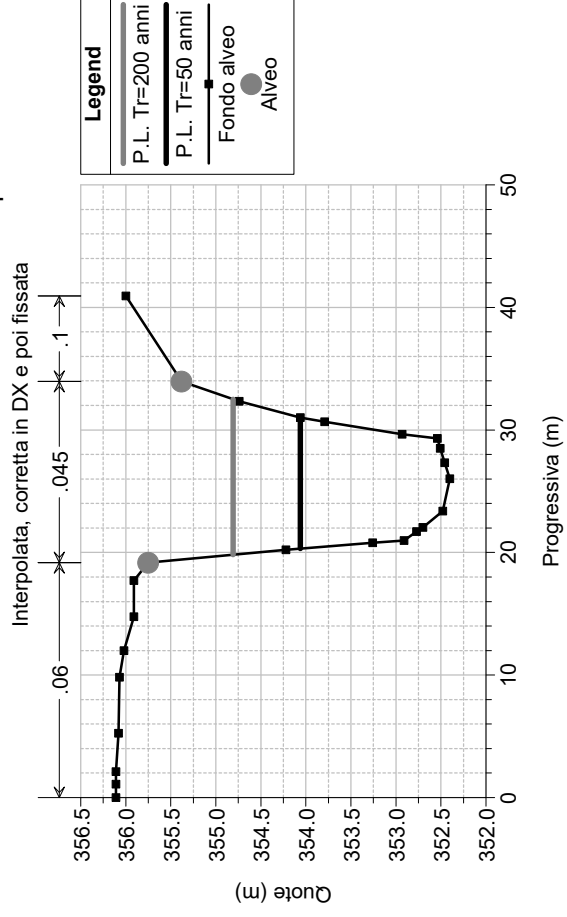
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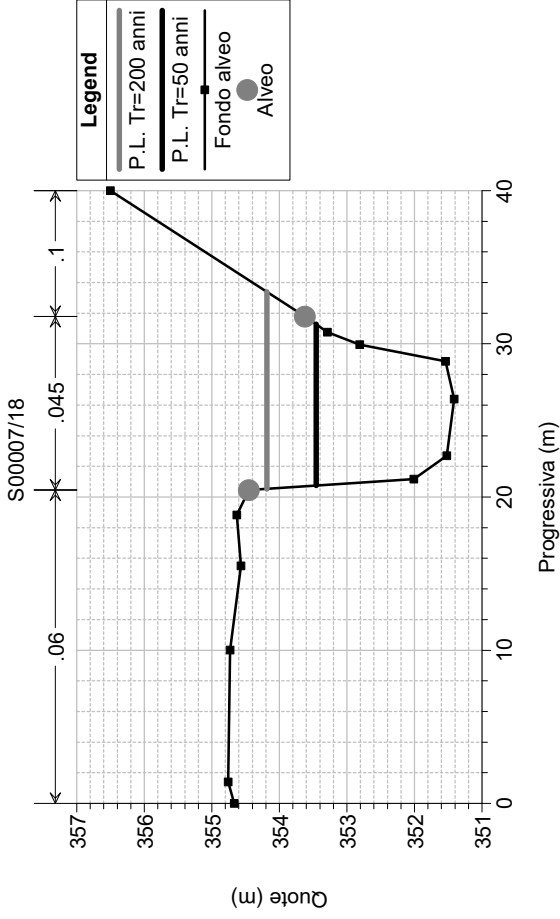
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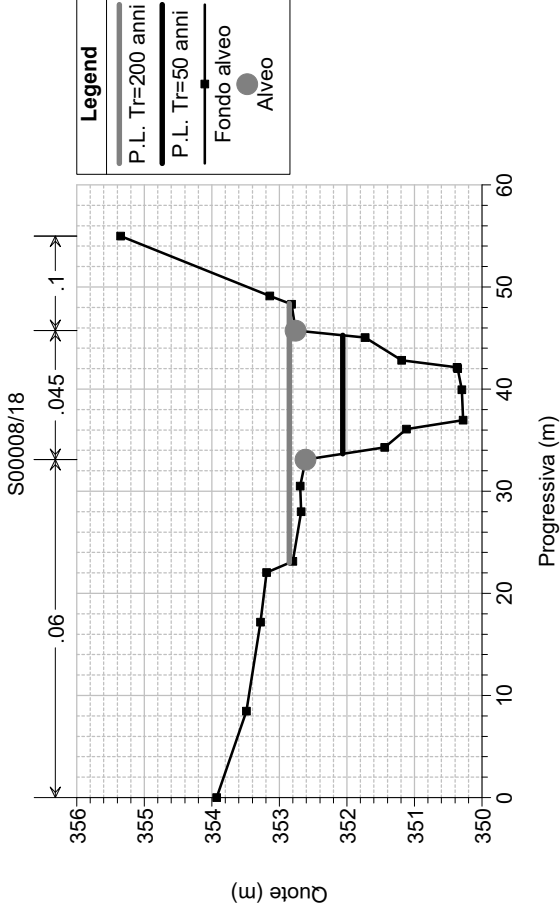
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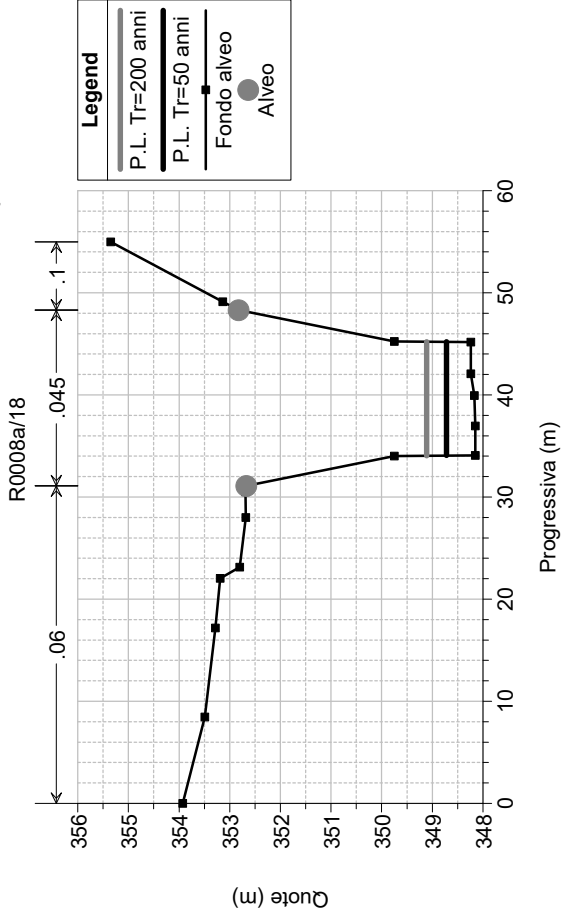
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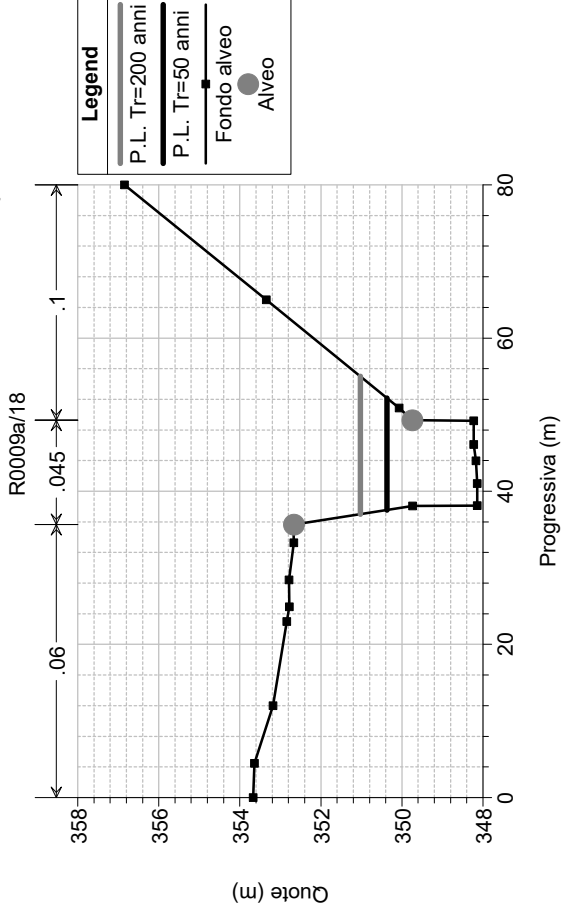
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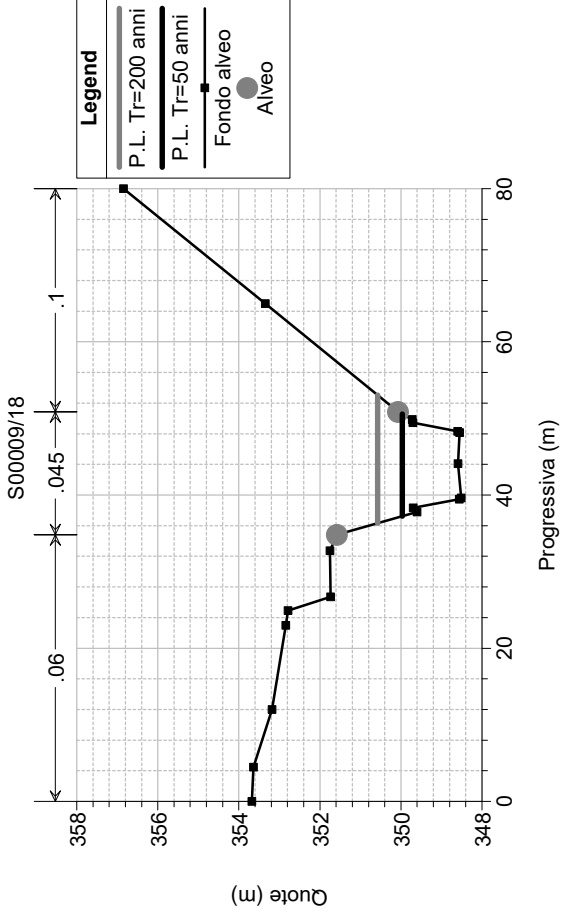
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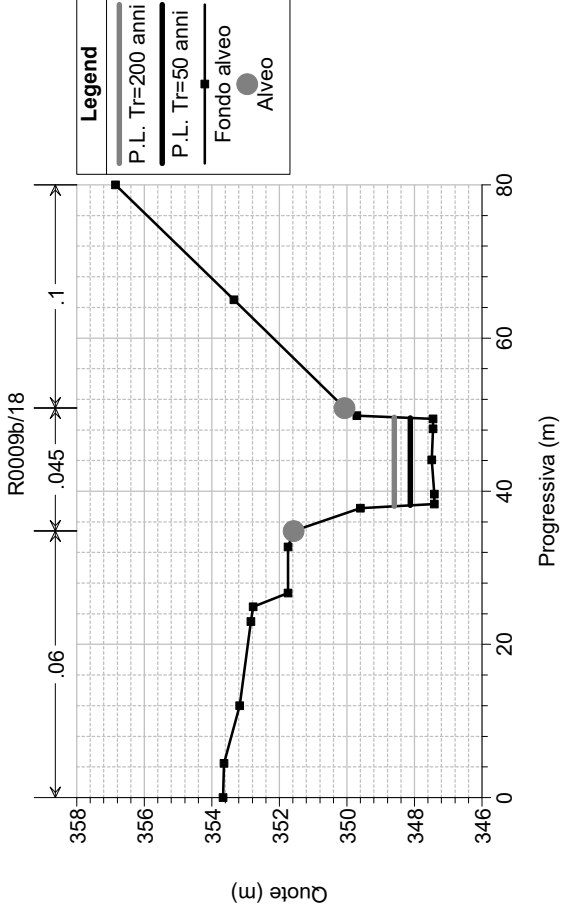
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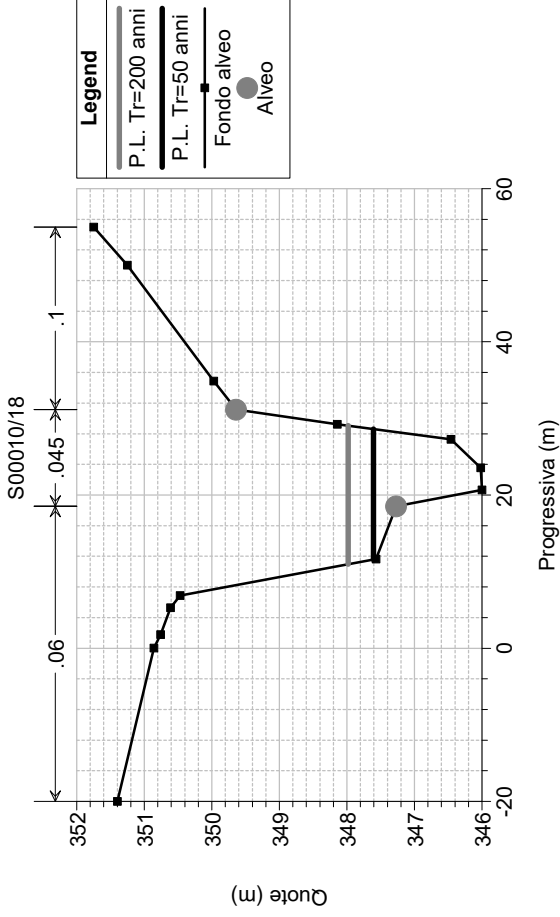
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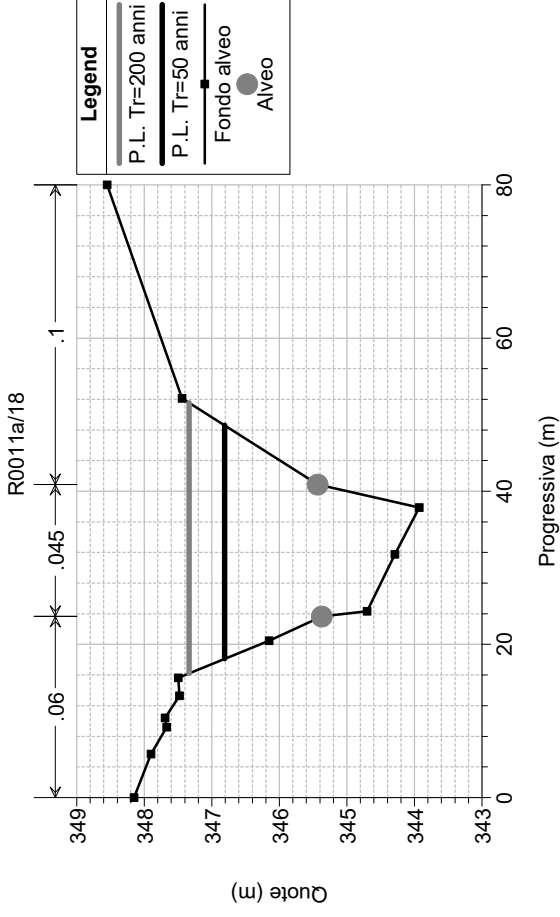
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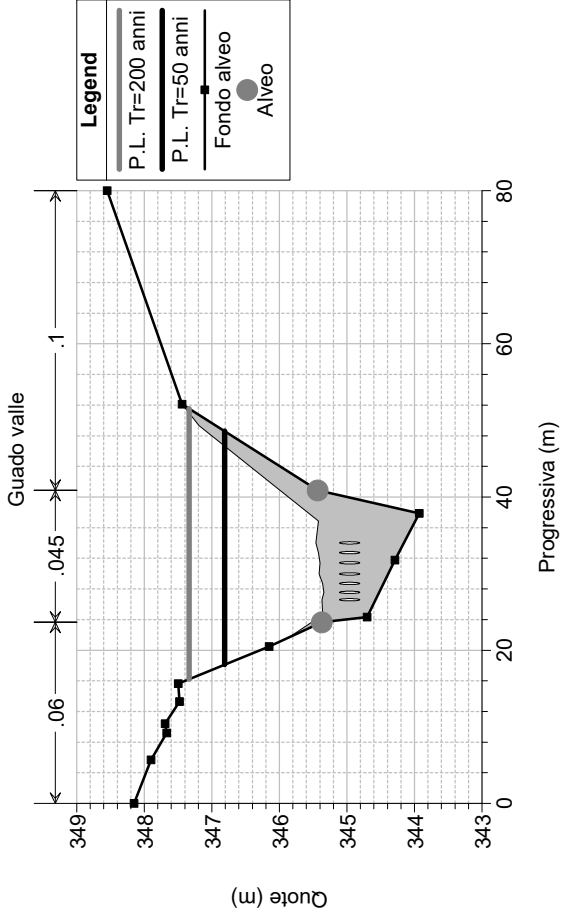
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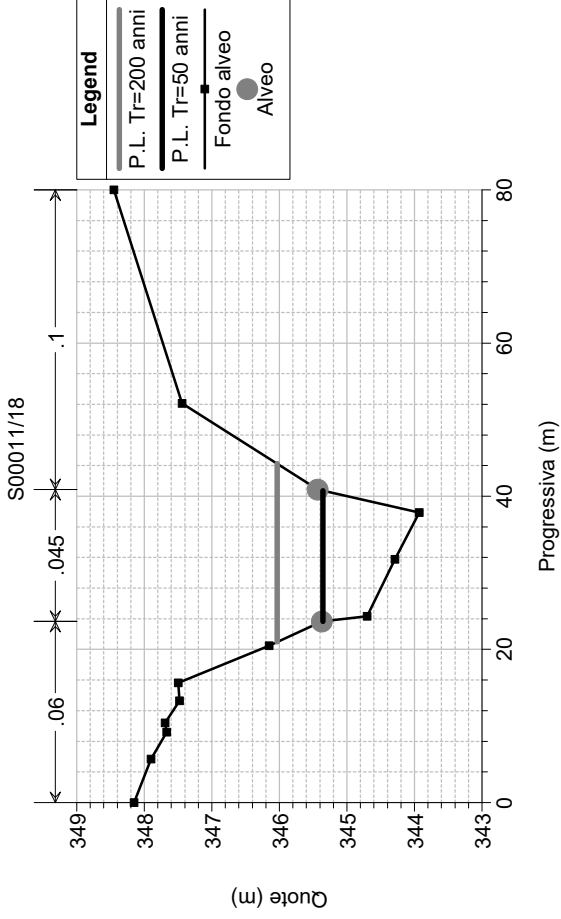
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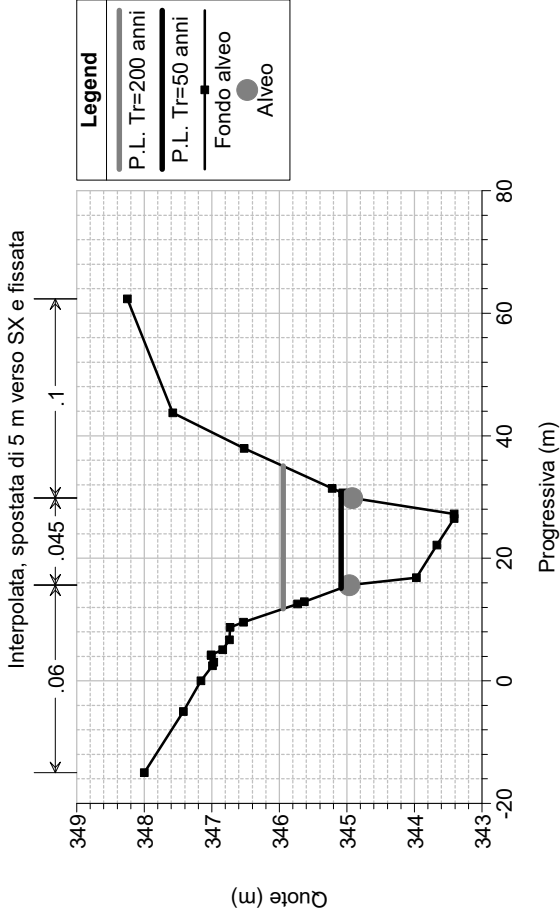
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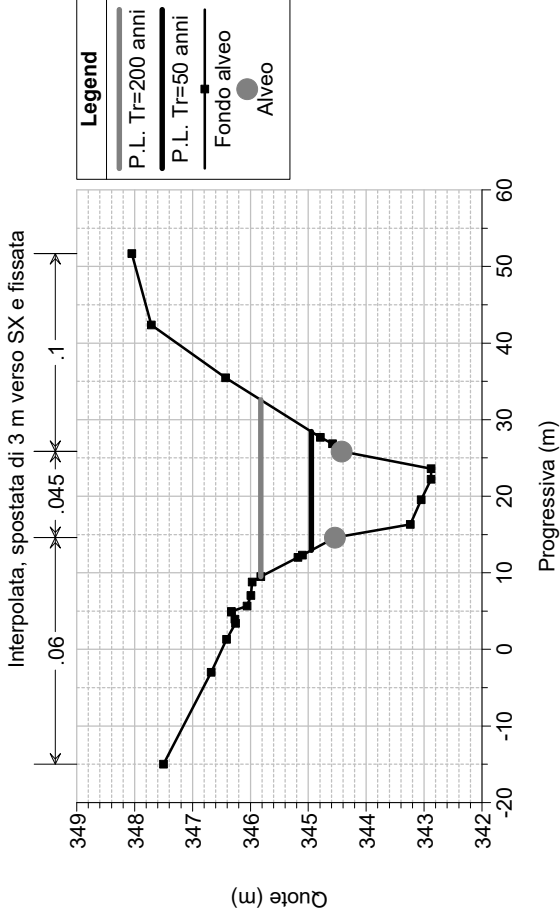
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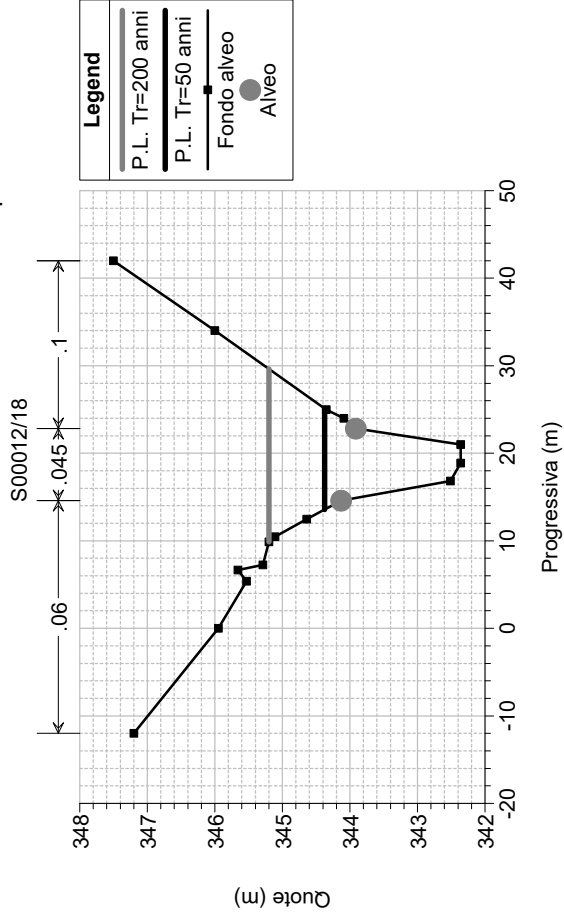
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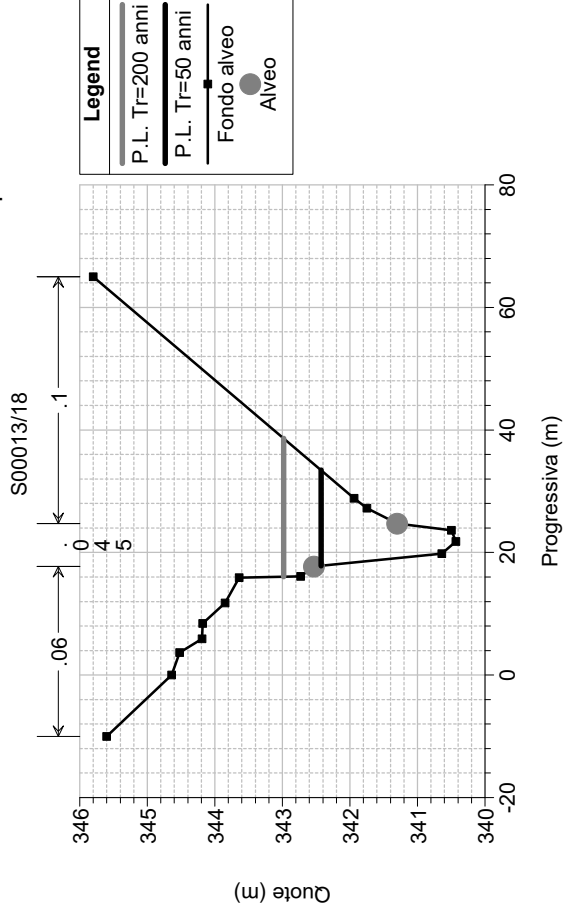
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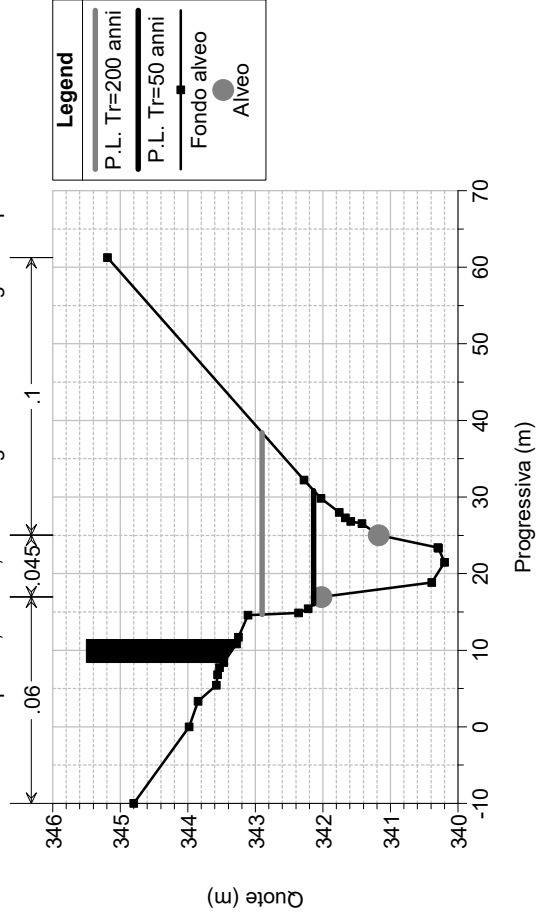
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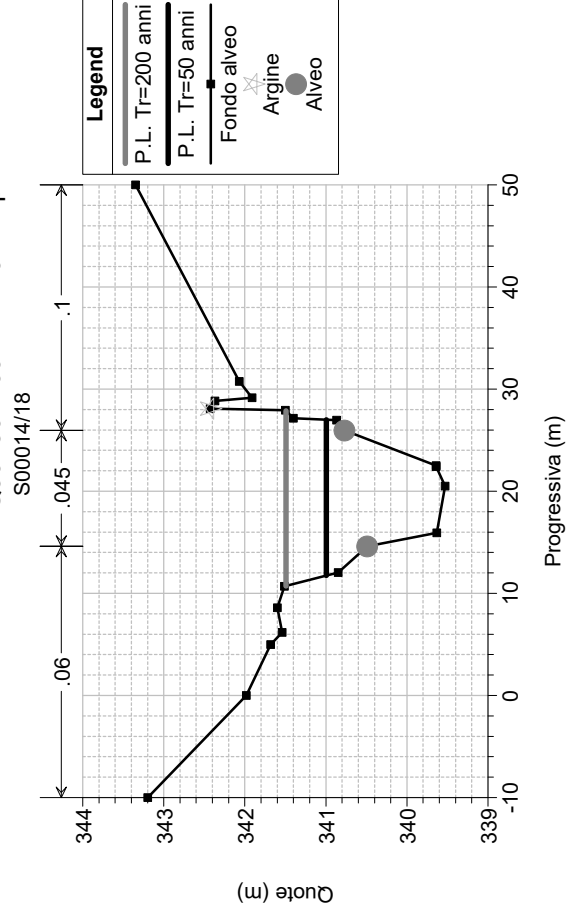
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TRFSL Plan: SA-Q30+50+200 MIX 07-Sep-21
Interpolata, fissata, inserito ingombro edificio agricolo sponda

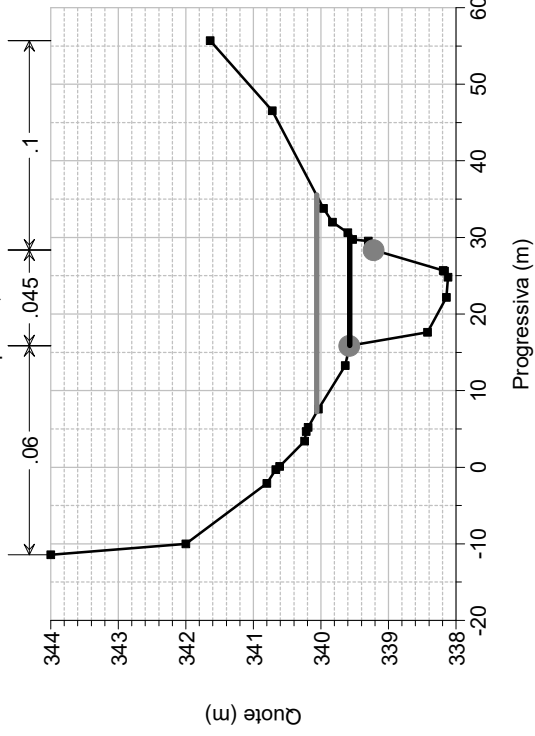


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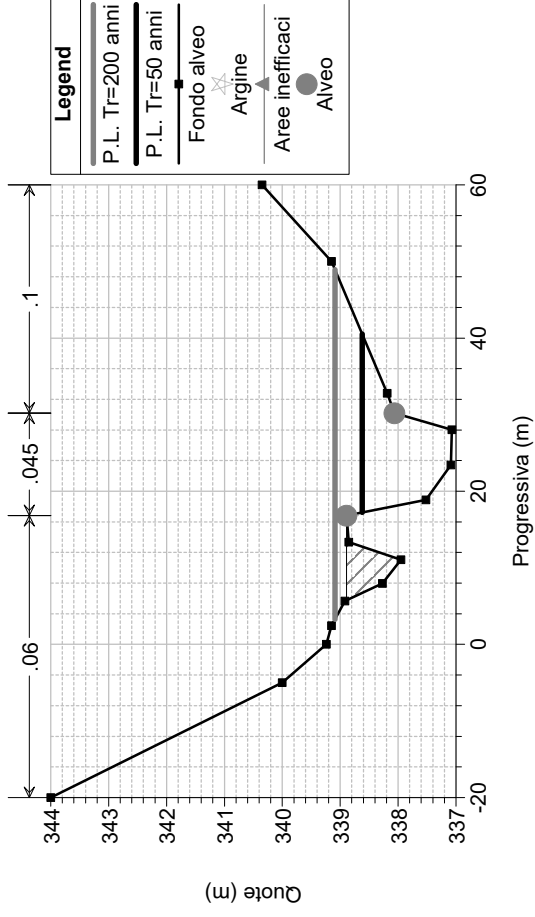
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Interpolata, corretta e fissata



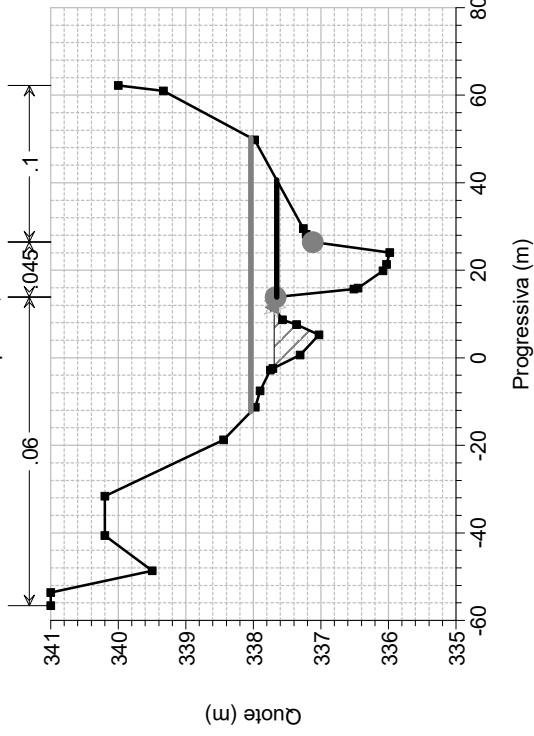
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S00015/18



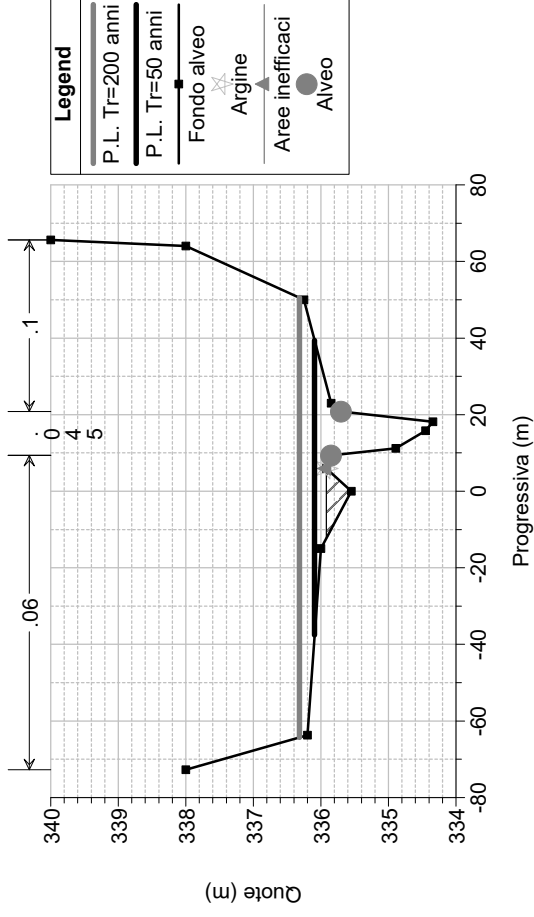
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Interpolata, corretta e fissata

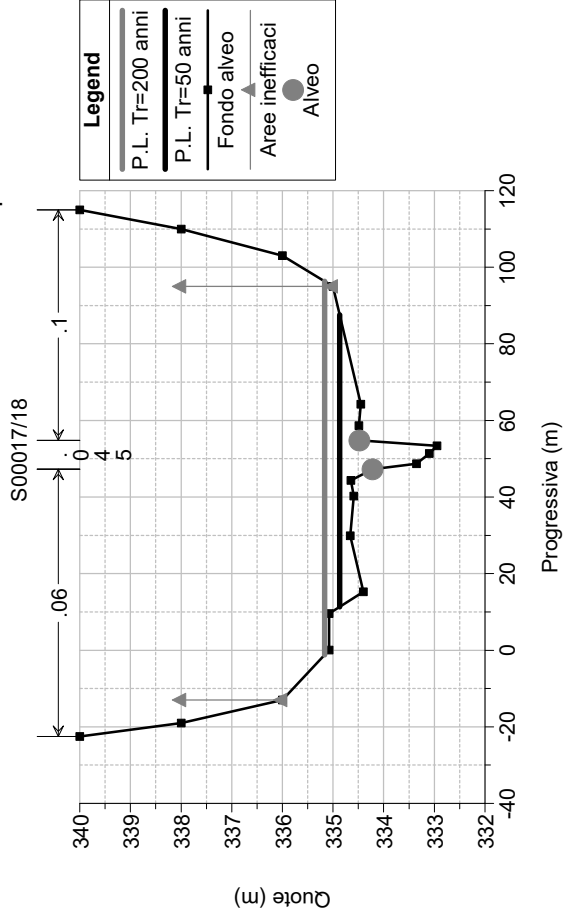


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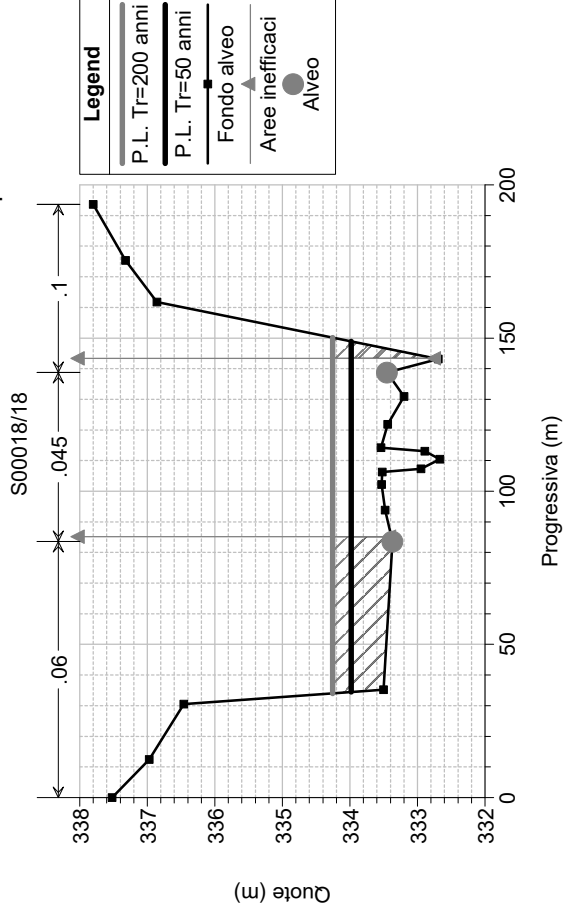
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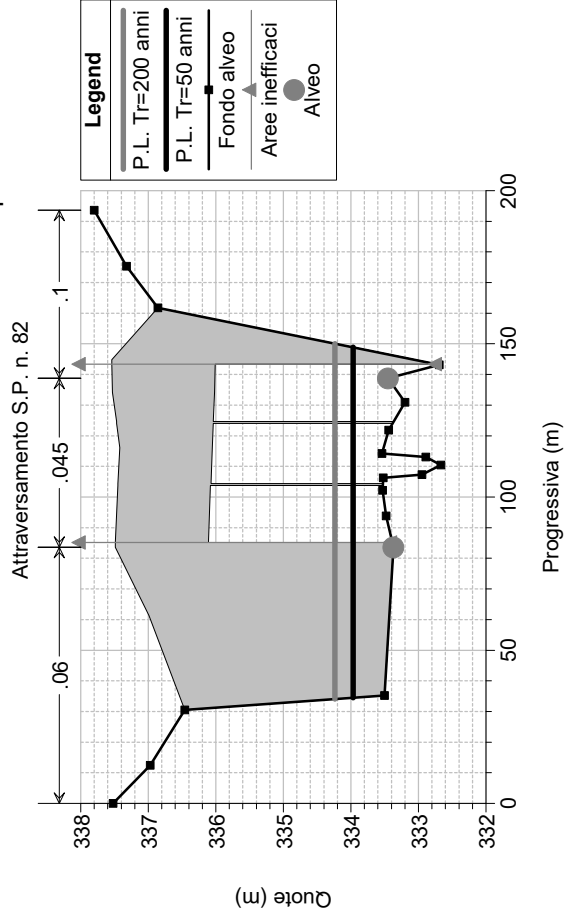
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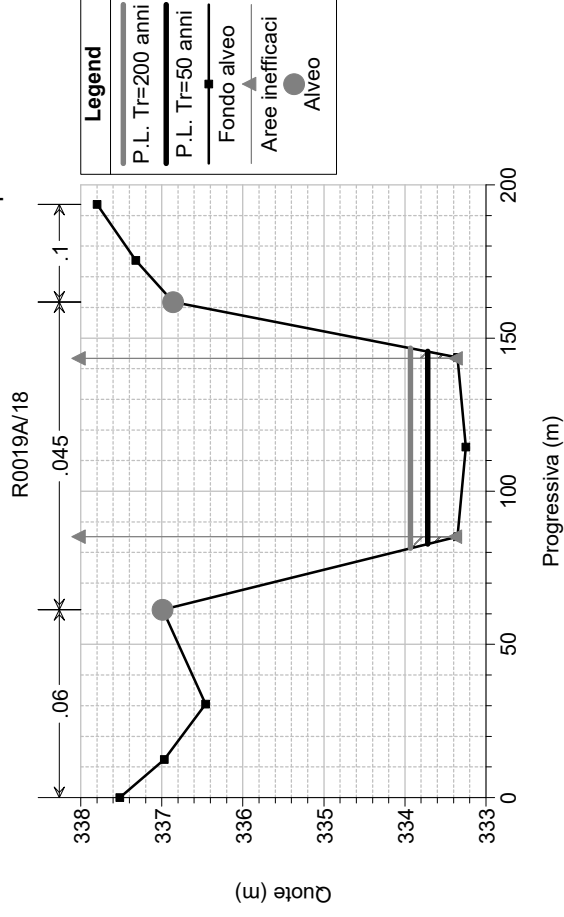
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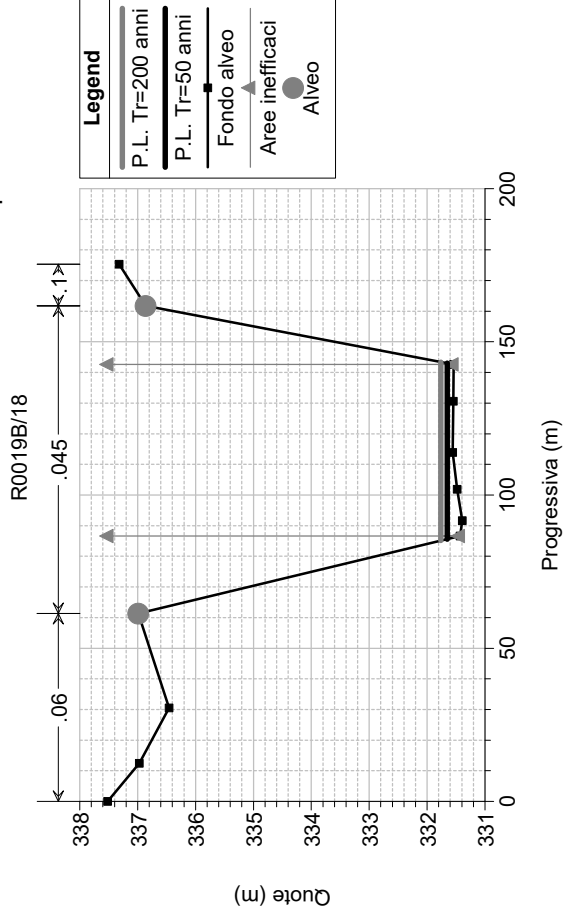
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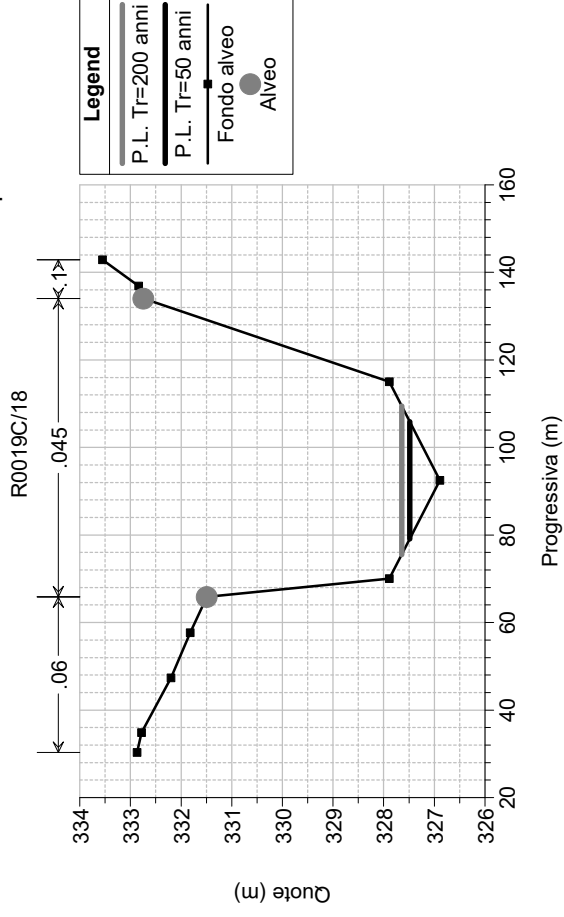
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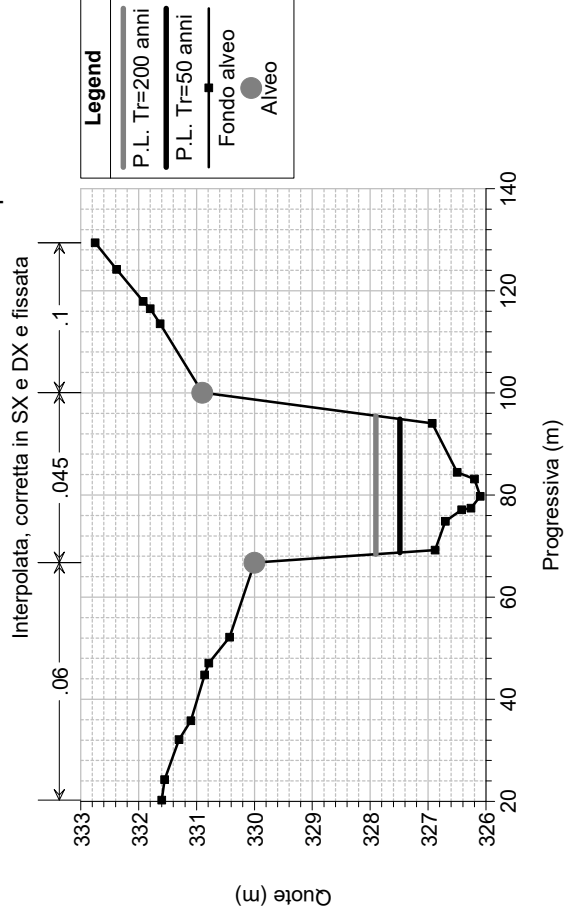
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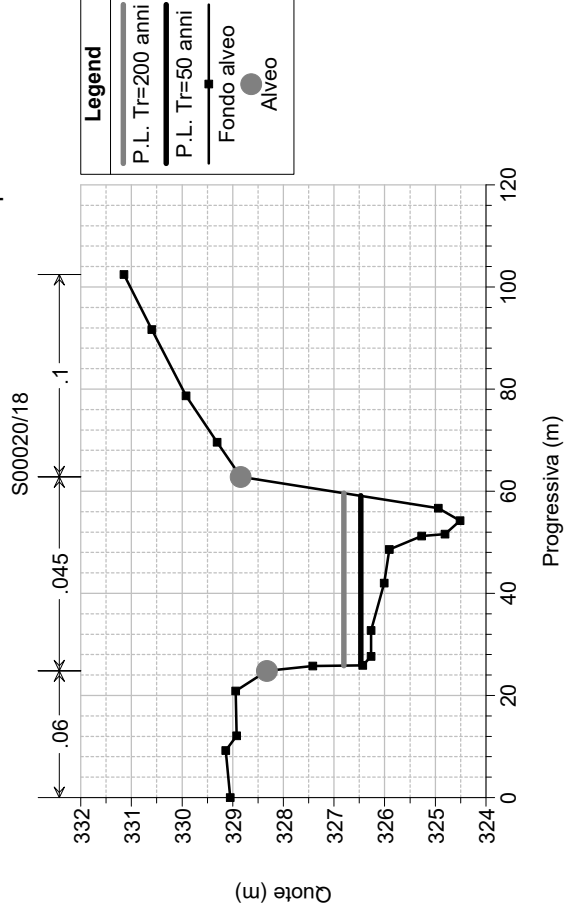
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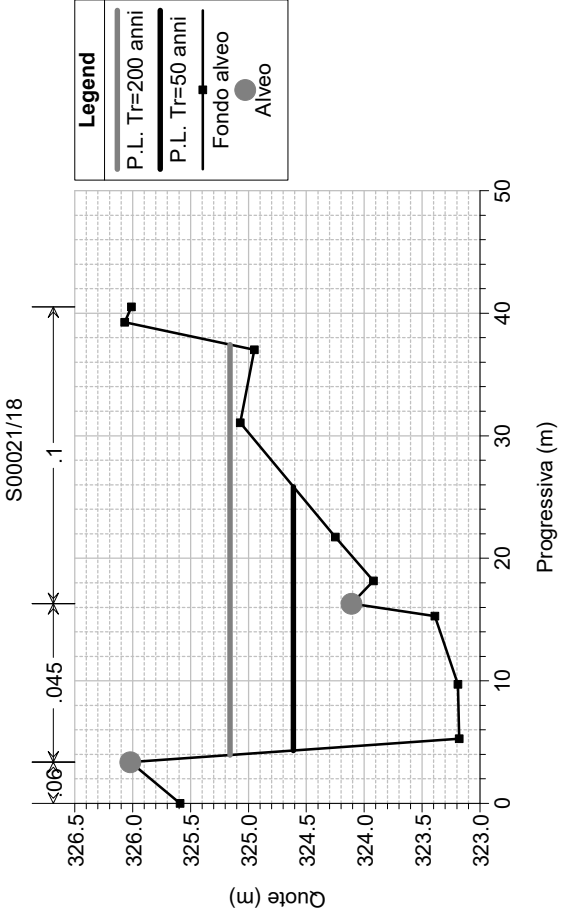
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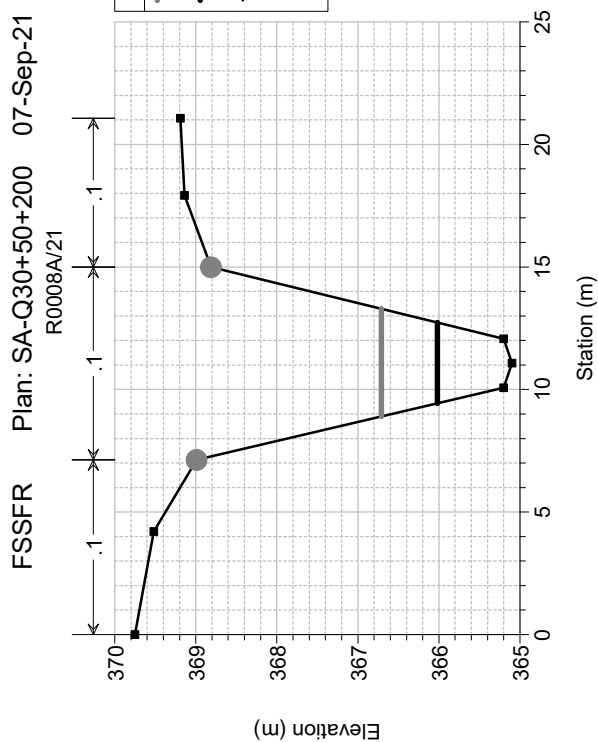
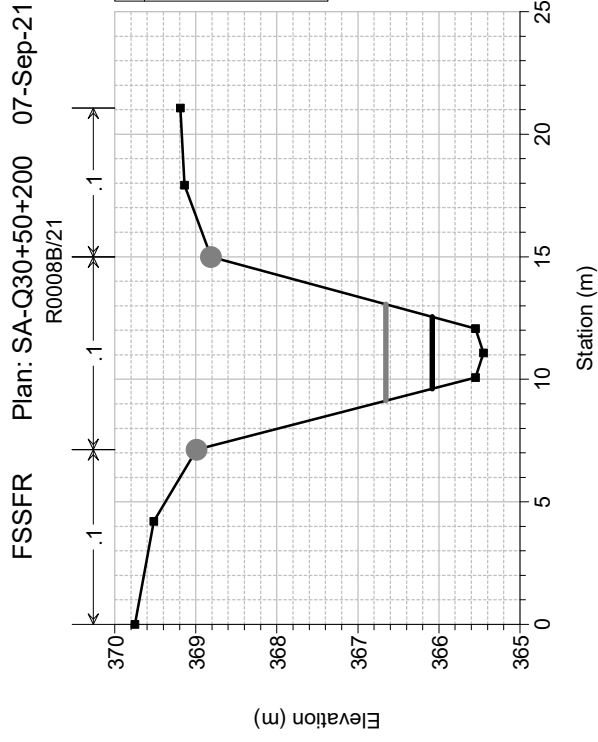
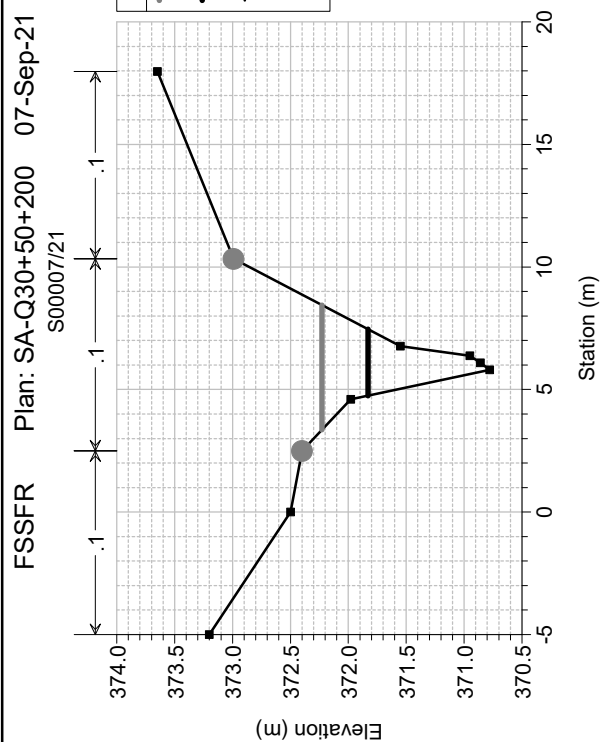
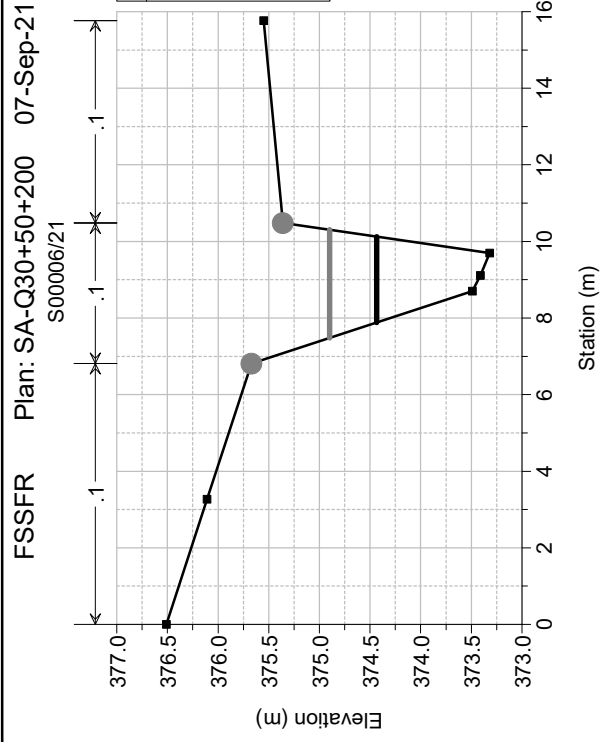
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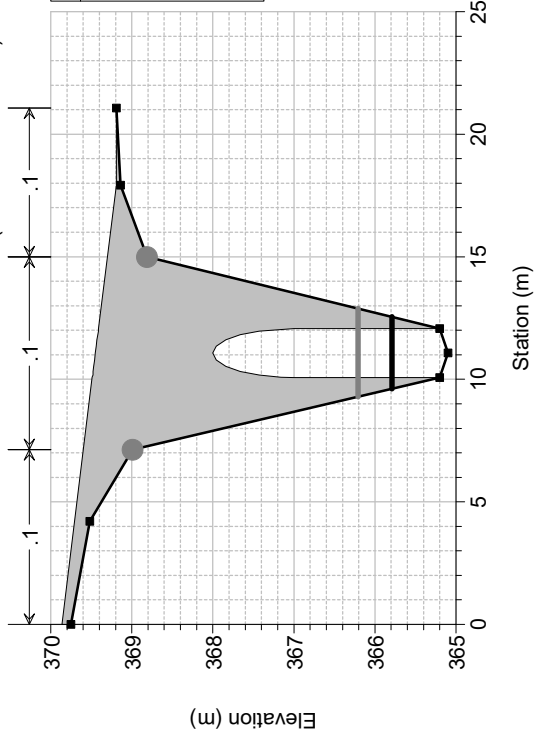
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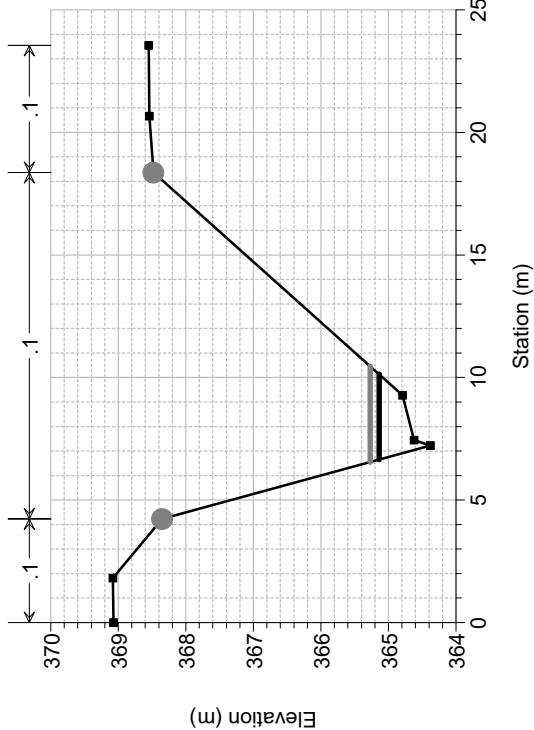
TRSFR - T. San Francesco



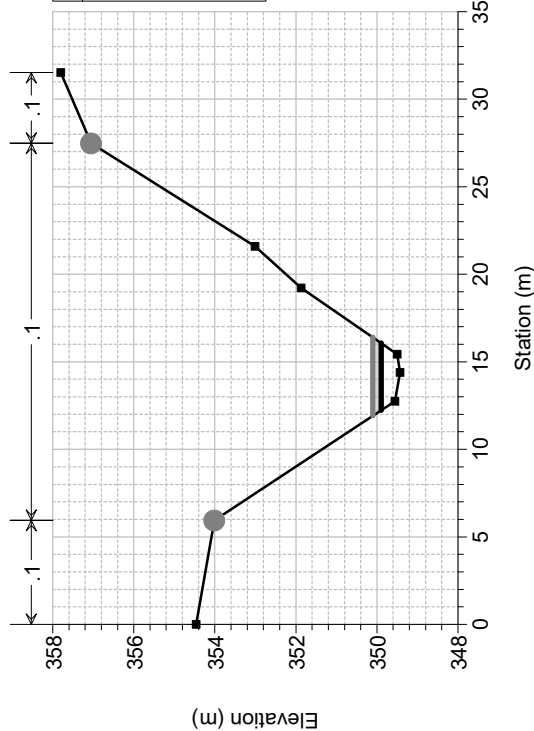
FSSFR Plan: SA-Q30+50+200 07-Sep-21
Attraversamento S.P. n. 21 (via San Sebastiano)



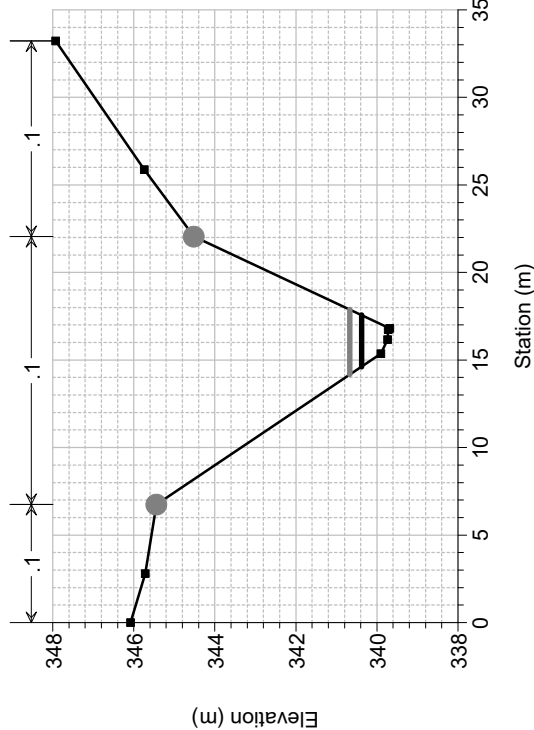
FSSFR Plan: SA-Q30+50+200 07-Sep-21
S00008/21



FSSFR Plan: SA-Q30+50+200 07-Sep-21
S00009/21



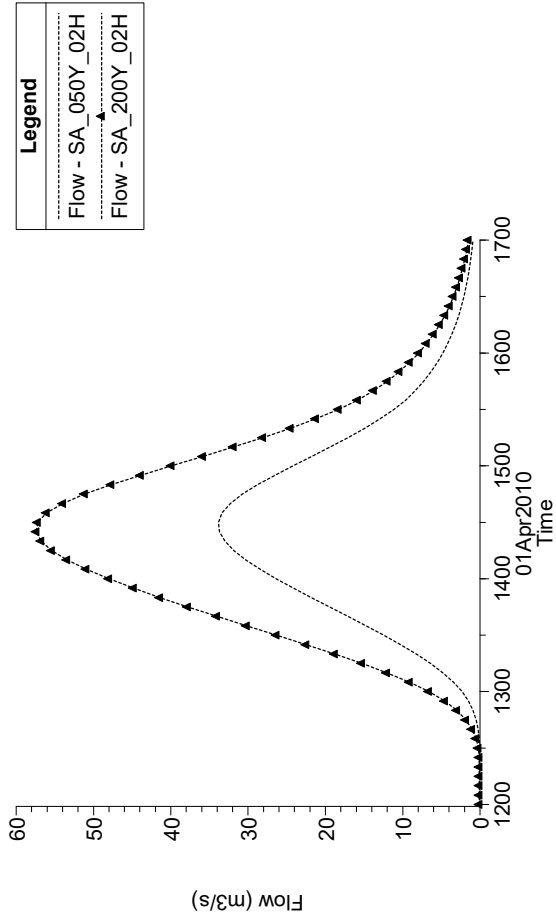
FSSFR Plan: SA-Q30+50+200 07-Sep-21
S00010/21



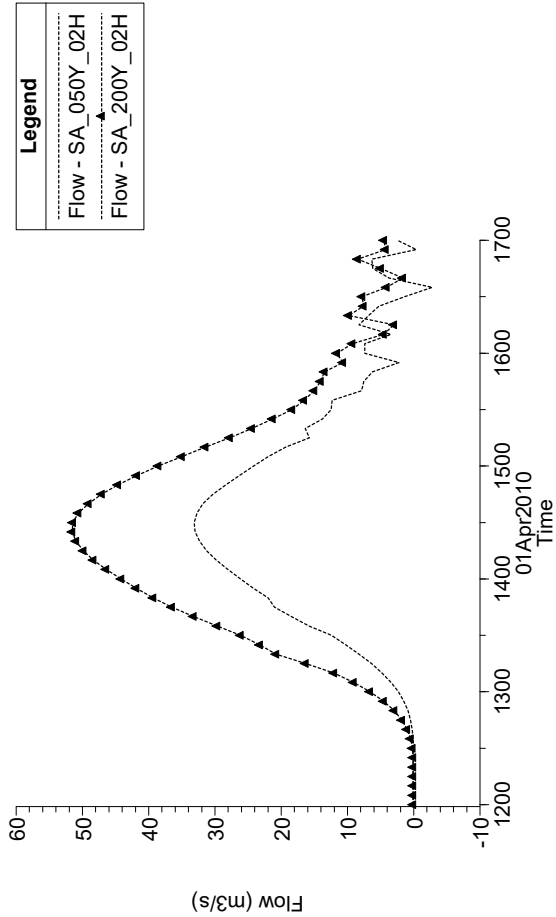
4.
IDROGRAMMI DI SEZIONE
(portate, solo moto vario)

FSGMB - F.so Gamberaio

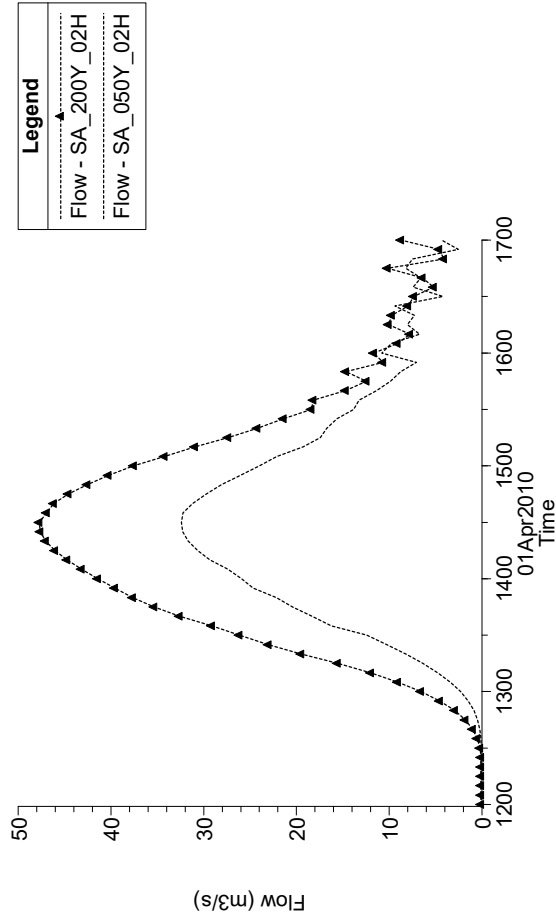
River: FSGMB Reach: FSGMB_01 RS: 494.50



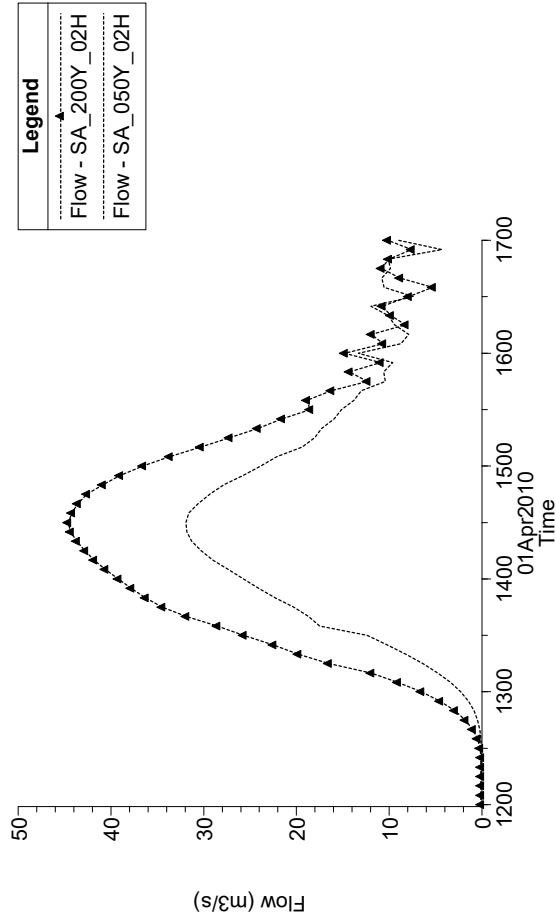
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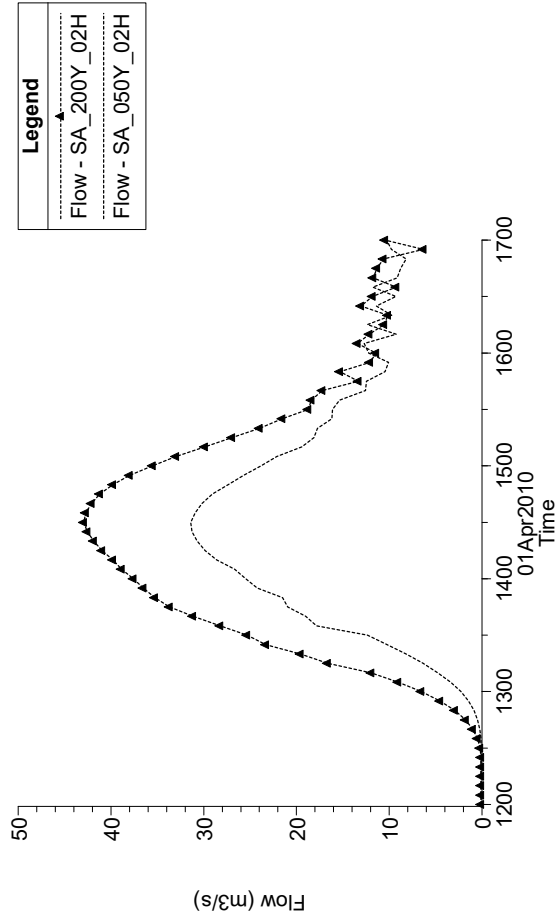
River: FSGMB Reach: FSGMB_01 RS: 484.63



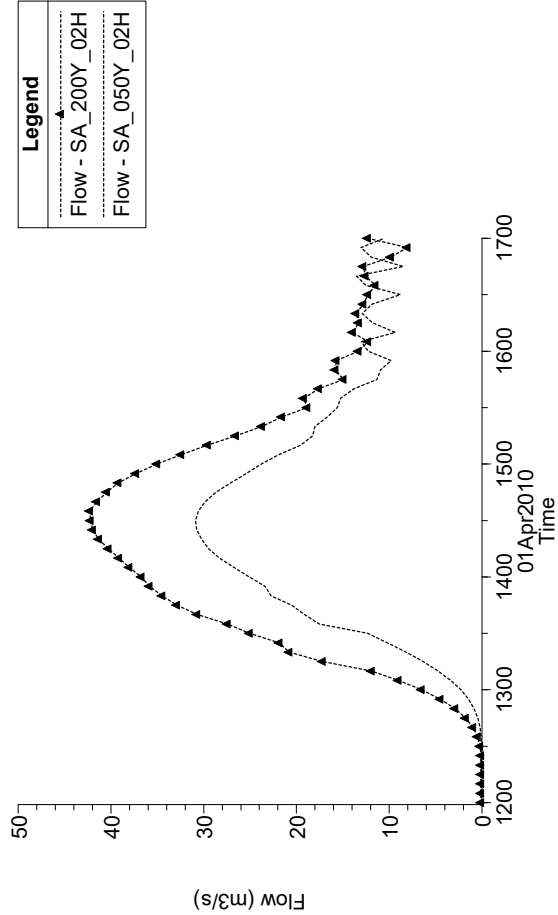
River: FSGMB Reach: FSGMB_01 RS: 479.70



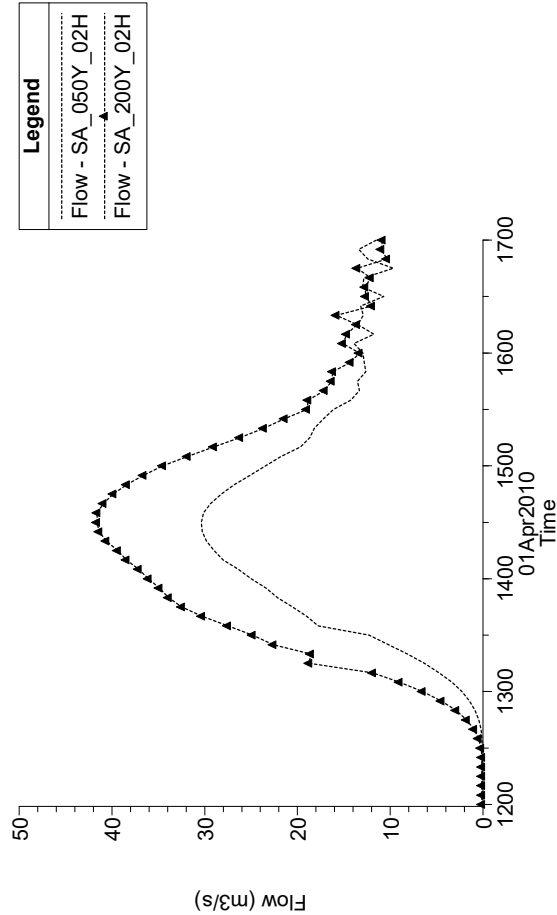
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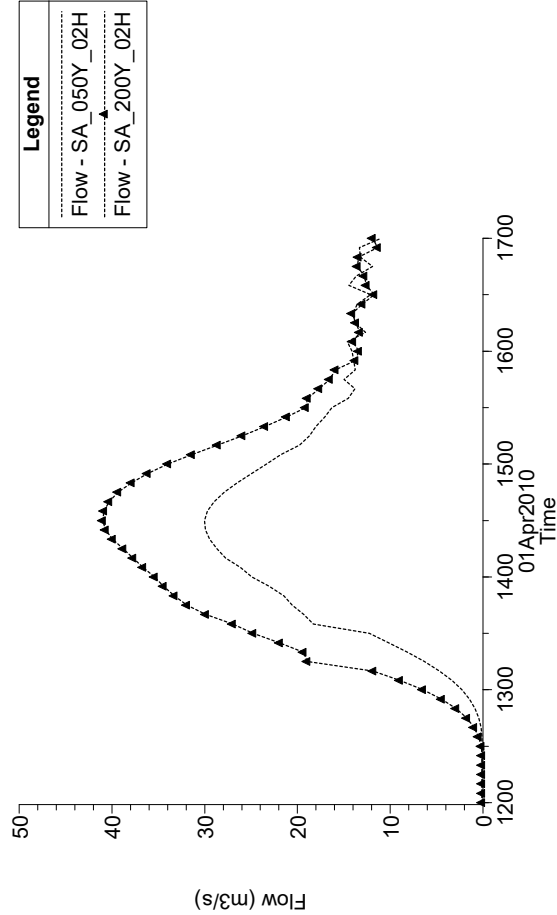
River: FSGMB Reach: FSGMB_01 RS: 469.83



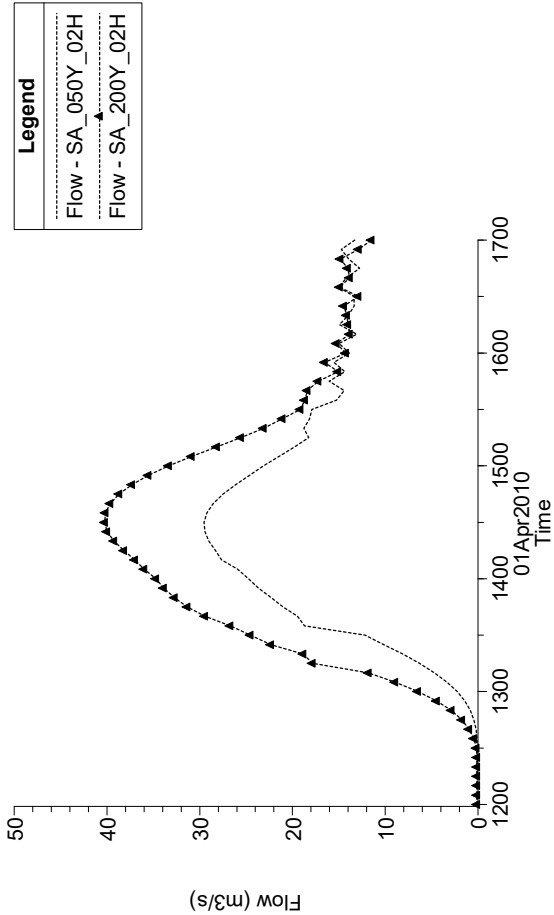
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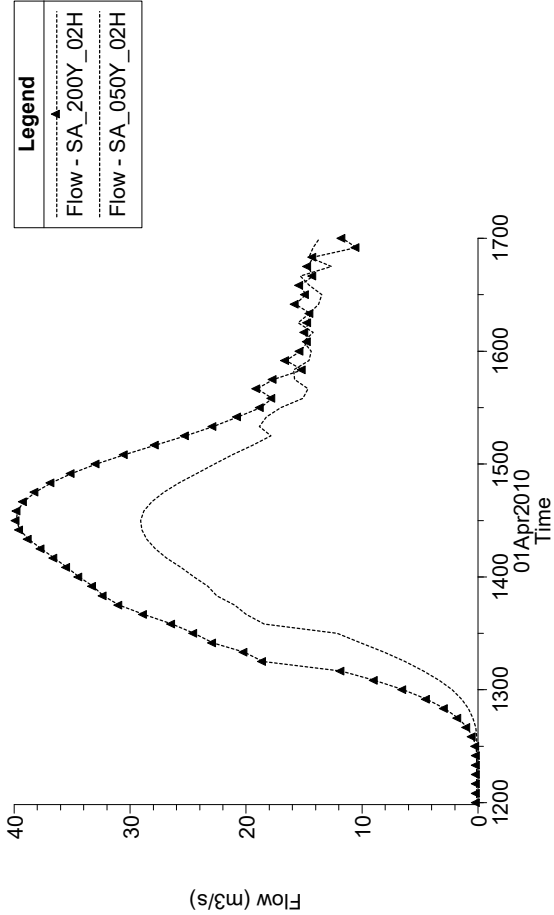
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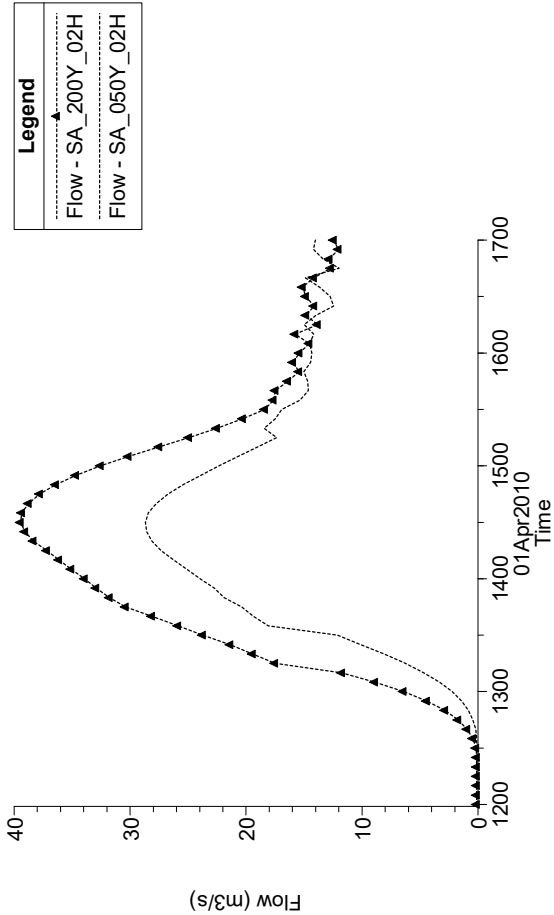
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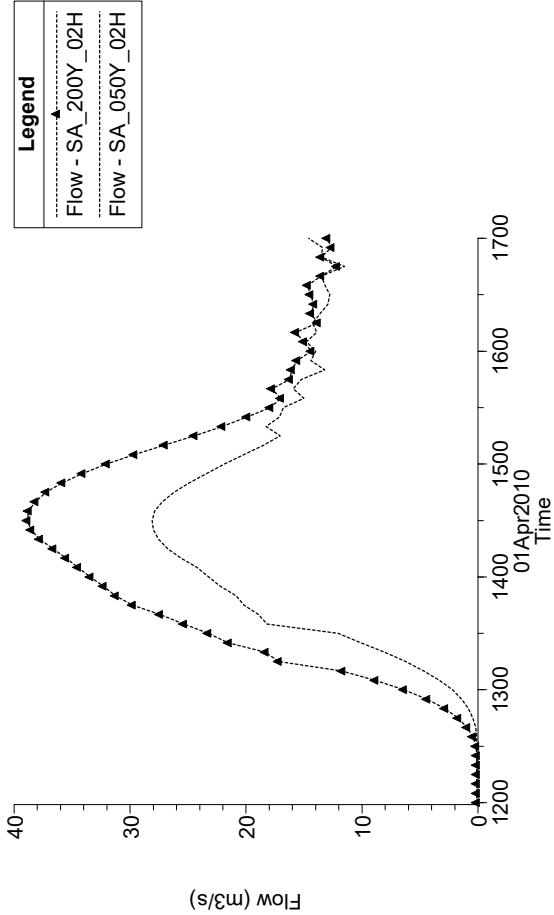
River: FSGMB Reach: FSGMB_01 RS: 450.10



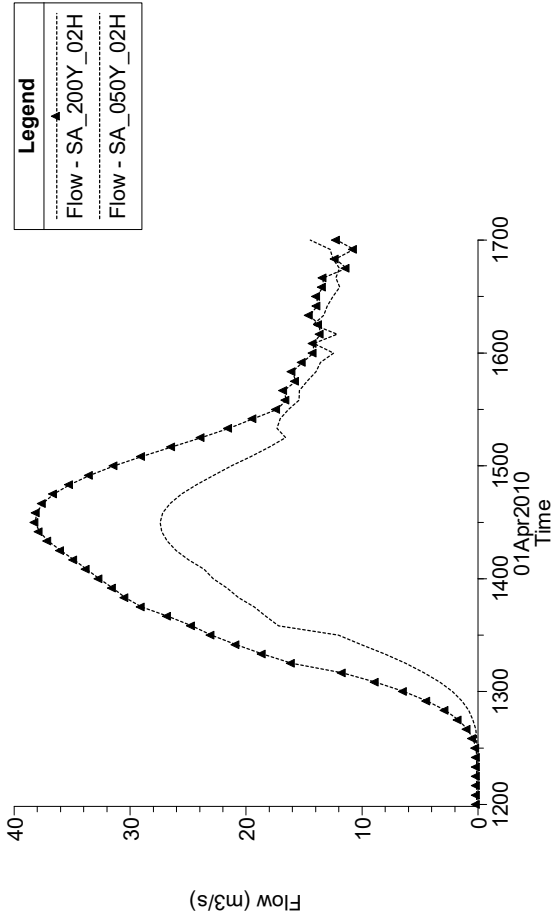
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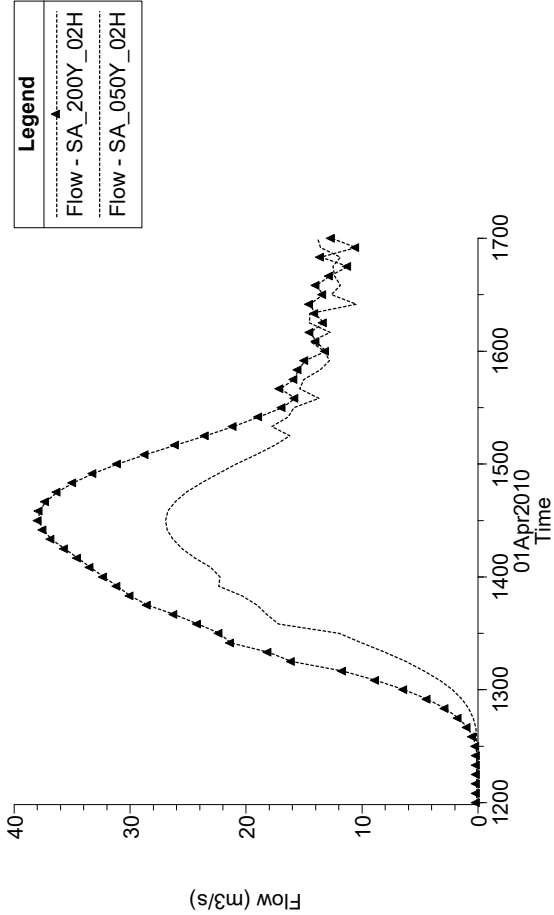
River: FSGMB Reach: FSGMB_01 RS: 440.45



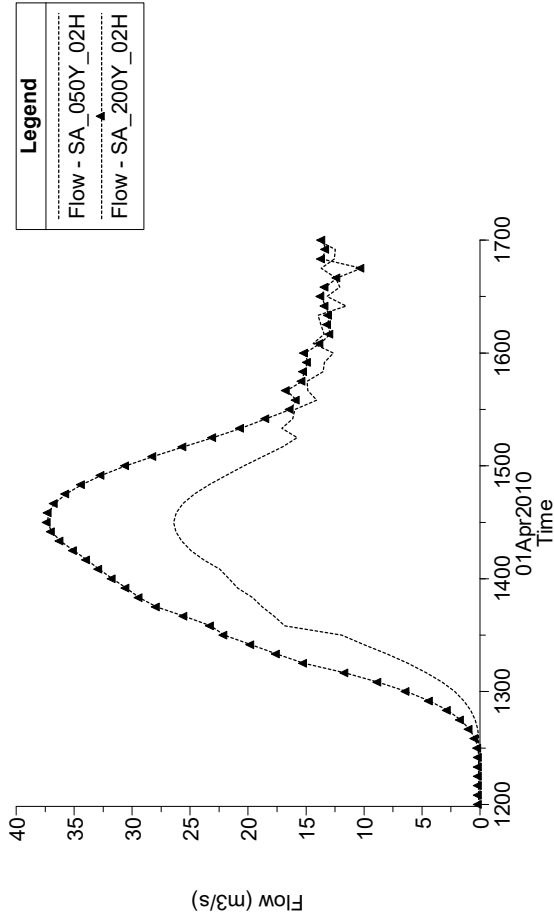
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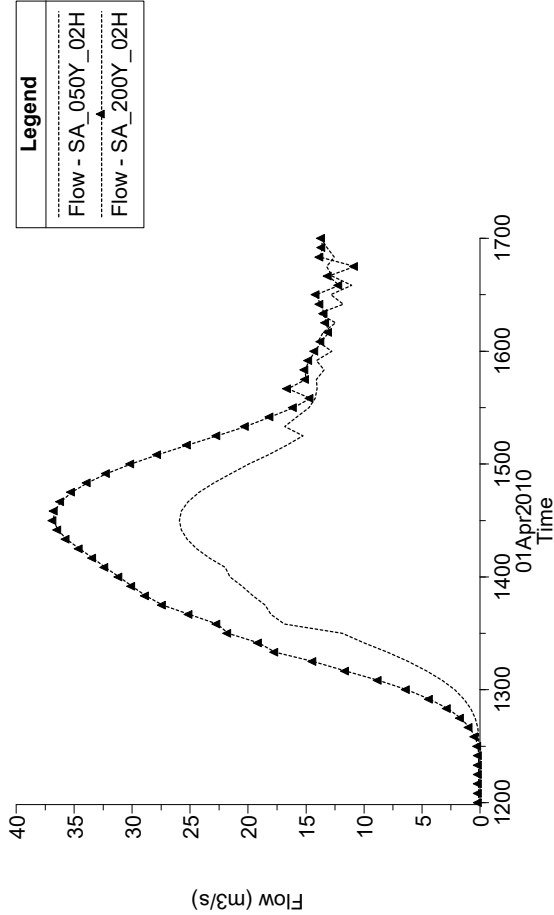
River: FSGMB Reach: FSGMB_01 RS: 430.79



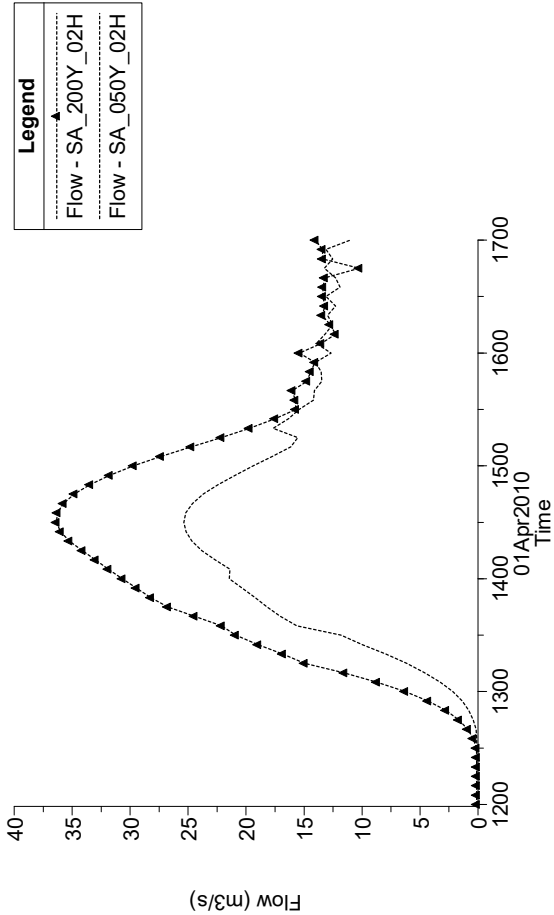
River: FSGMB Reach: FSGMB_01 RS: 425.97



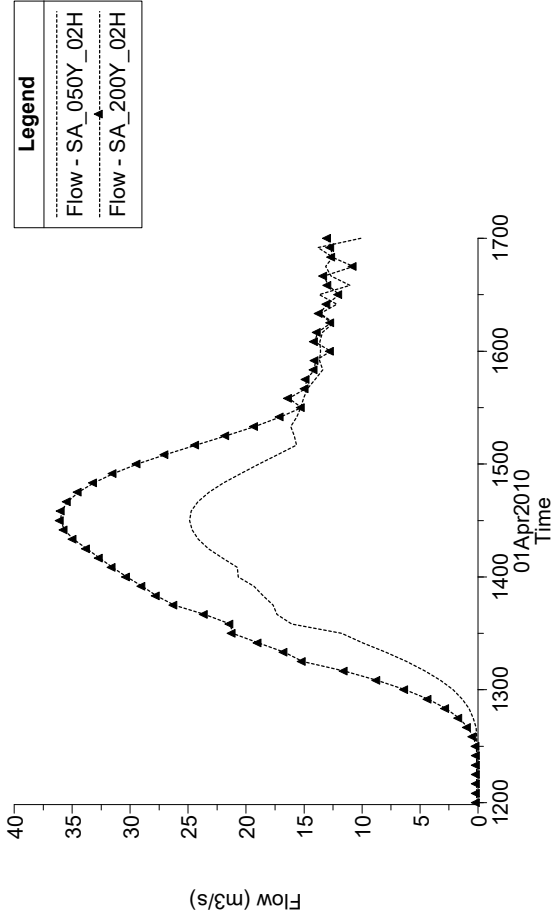
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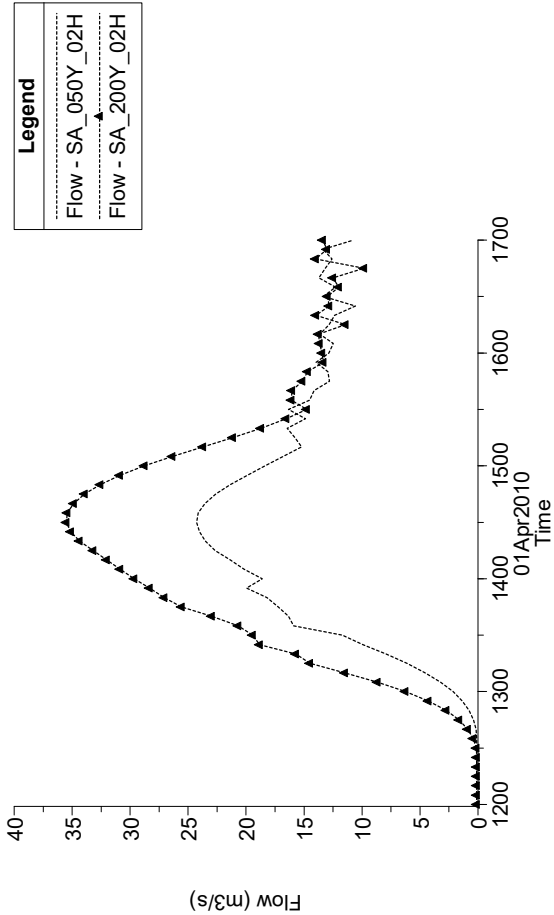
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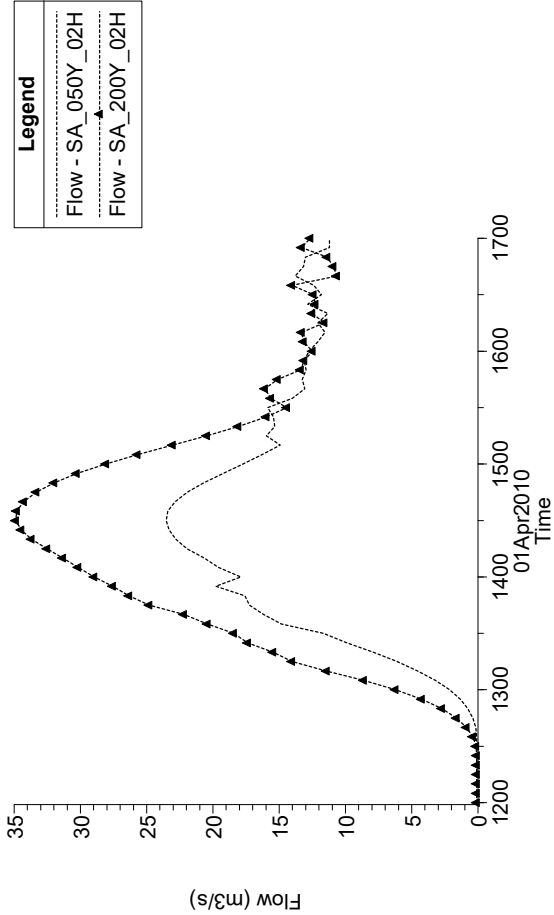
River: FSGMB Reach: FSGMB_01 RS: 411.49



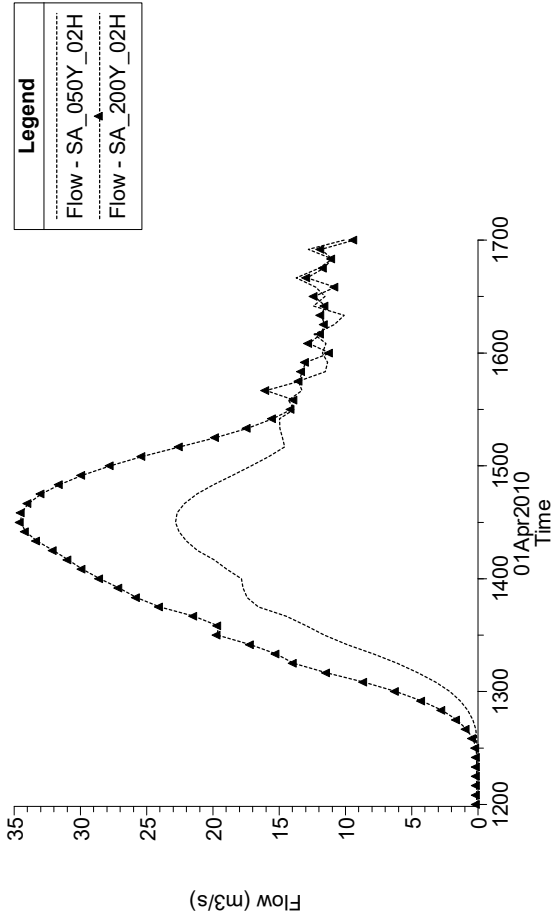
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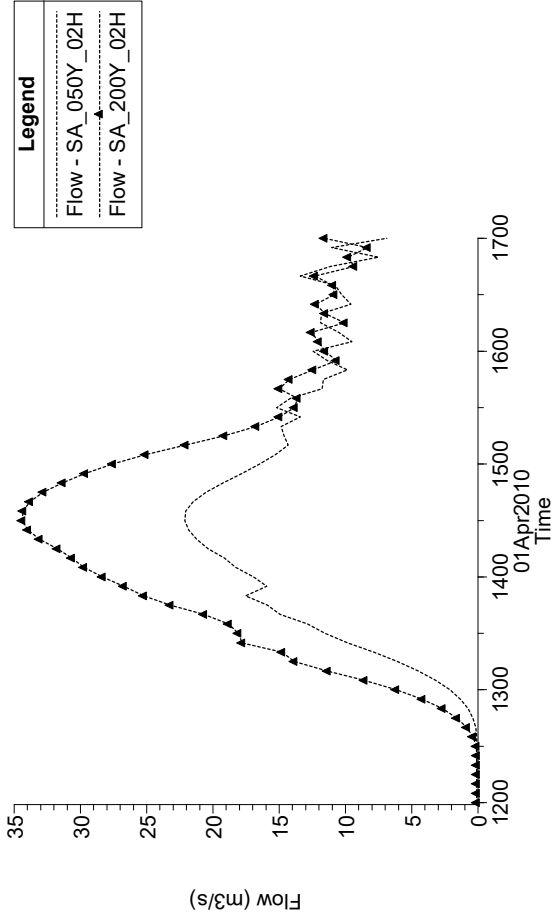
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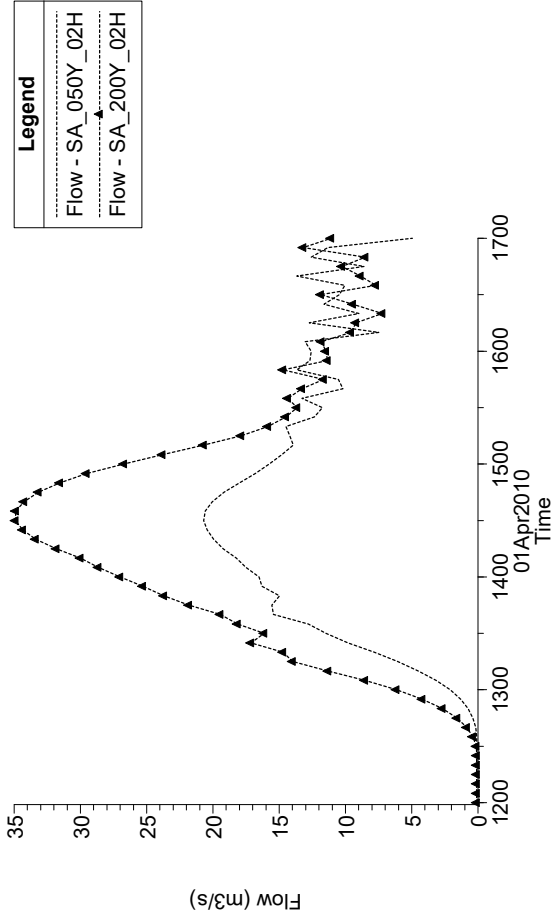
River: FSGMB Reach: FSGMB_01 RS: 397.01



River: FSGMB Reach: FSGMB_01 RS: 392.18

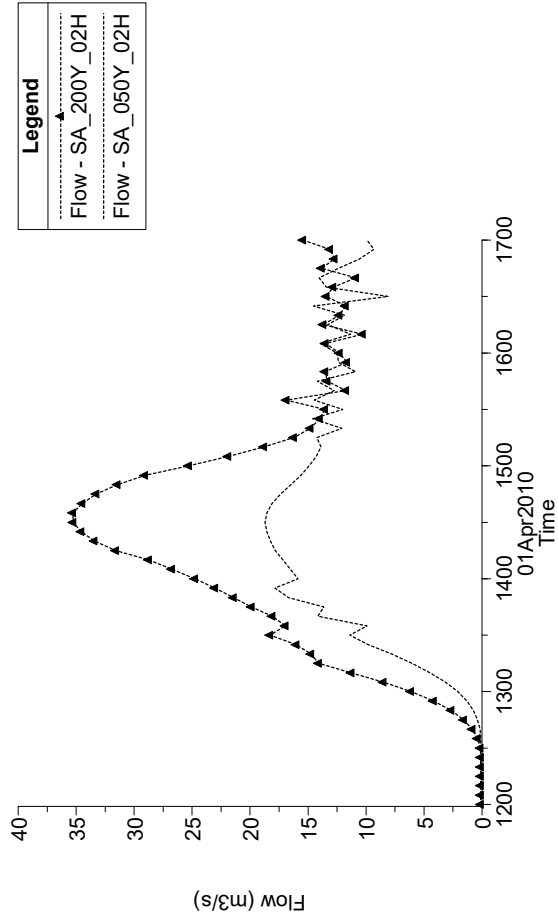


River: FSGMB Reach: FSGMB_01 RS: 387.35



No Data for Plot

River: FSGMB Reach: FSGMB_01 RS: 382.53

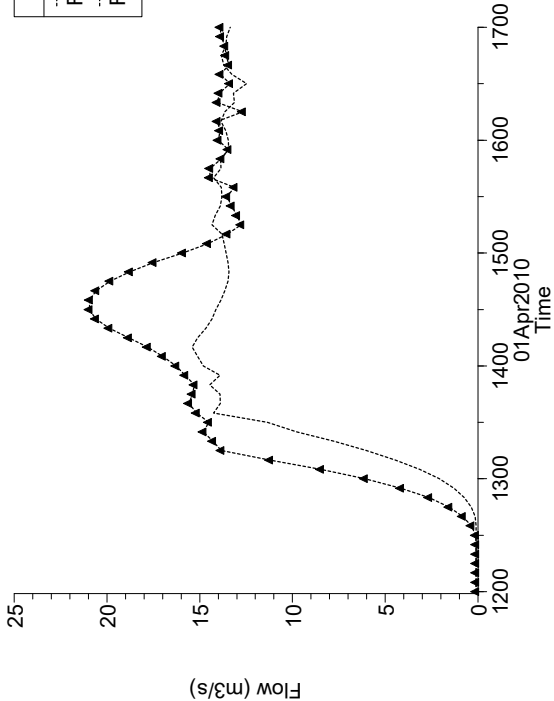


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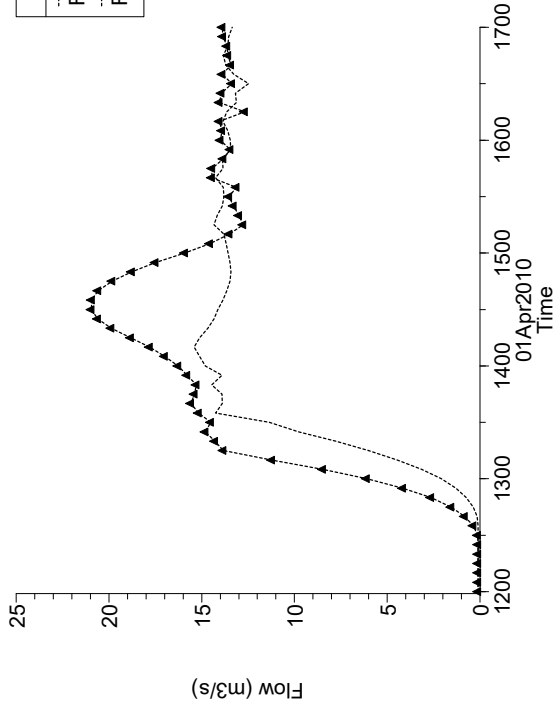
No Data for Plot

No Data for Plot

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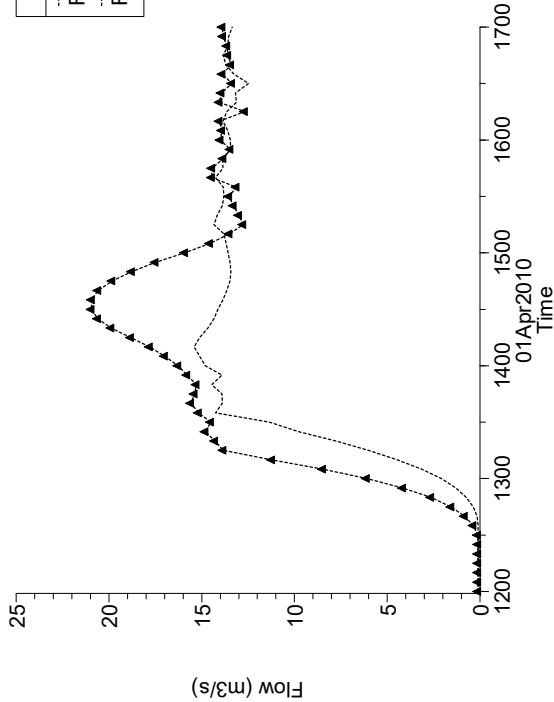


River: FSGMB Reach: FSGMB_01 RS: 373.30

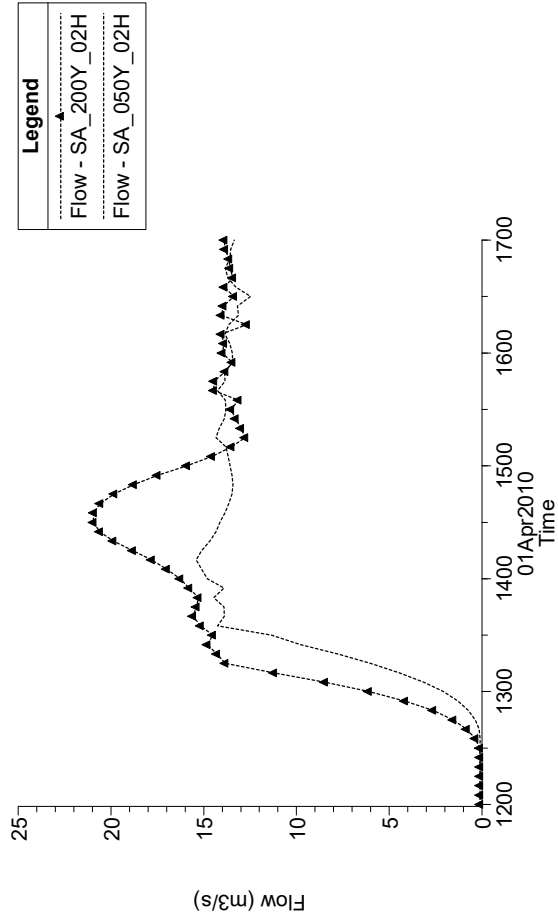


No Data for Plot

River: FSGMB Reach: FSGMB_01 RS: 373.30



River: FSGMB Reach: FSGMB_01 RS: 368.90



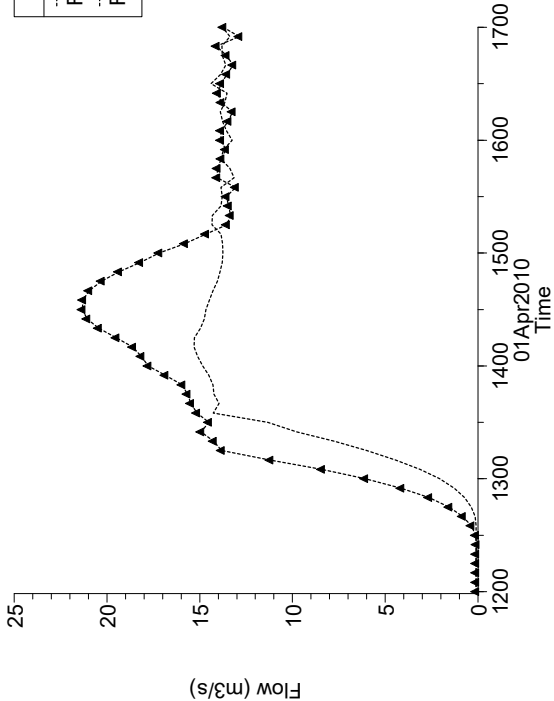
Legend	
Flow - SA_200Y_02H	
Flow - SA_050Y_02H	

No Data for Plot

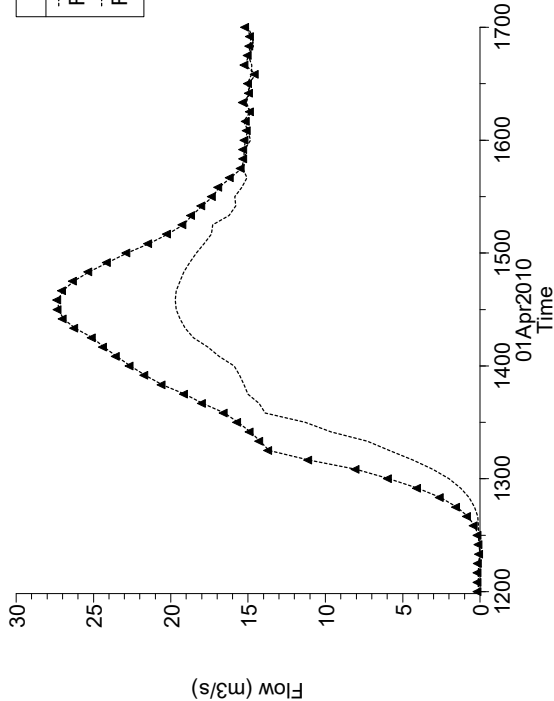
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No Data for Plot

River: FSGMB Reach: FSGMB_01 RS: 364.17

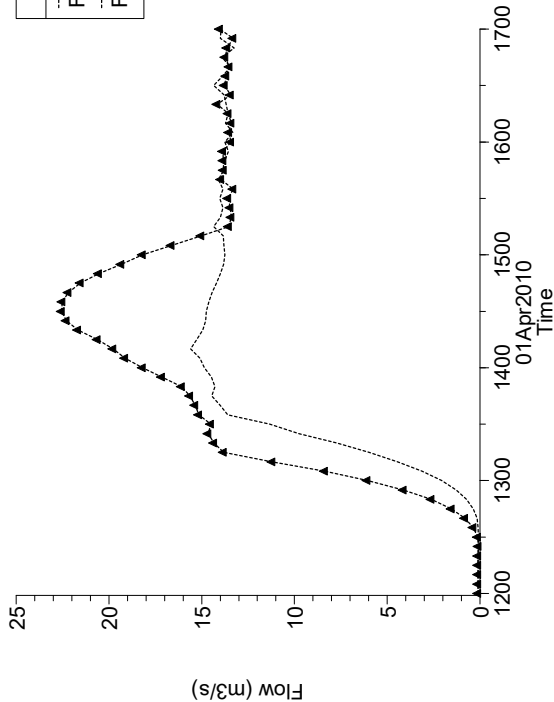


River: FSGMB Reach: FSGMB_01 RS: 316.90

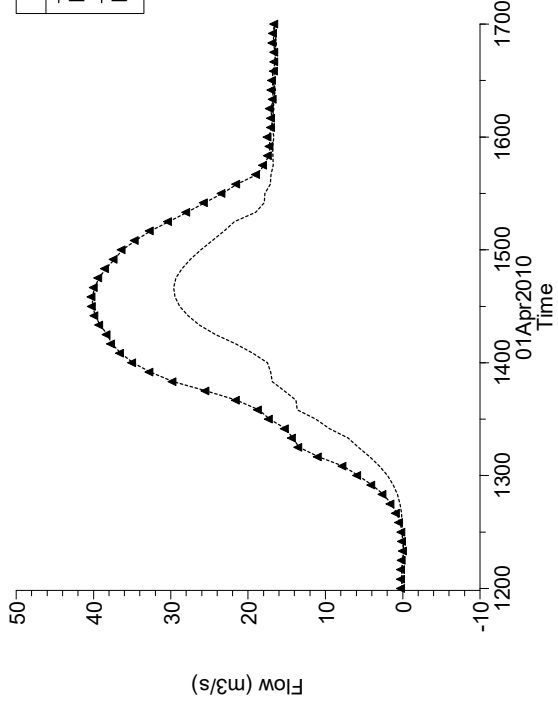


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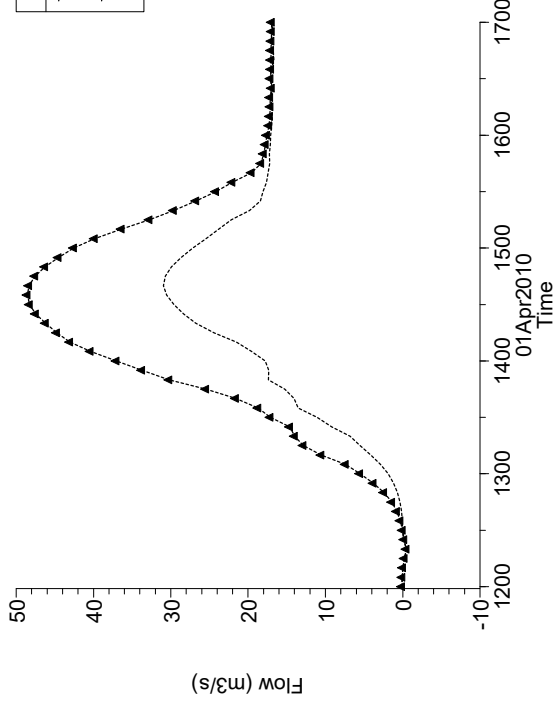
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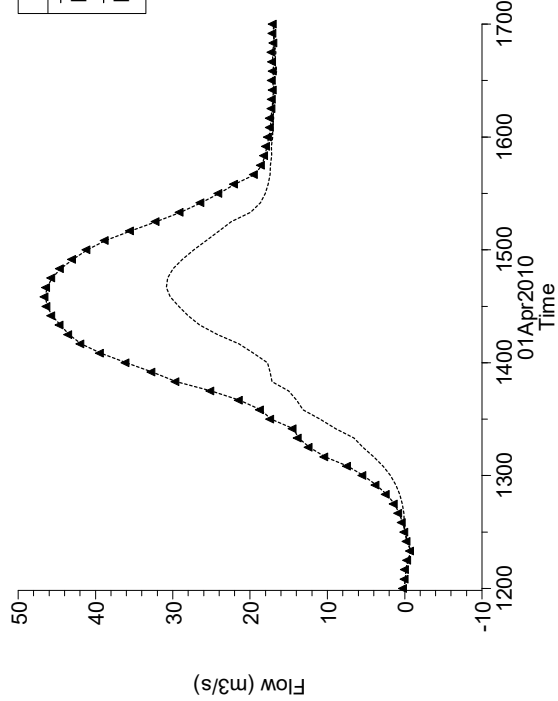
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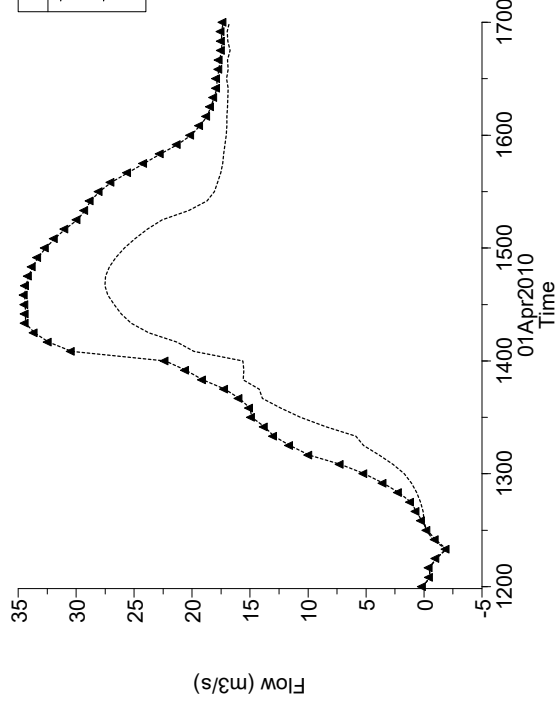
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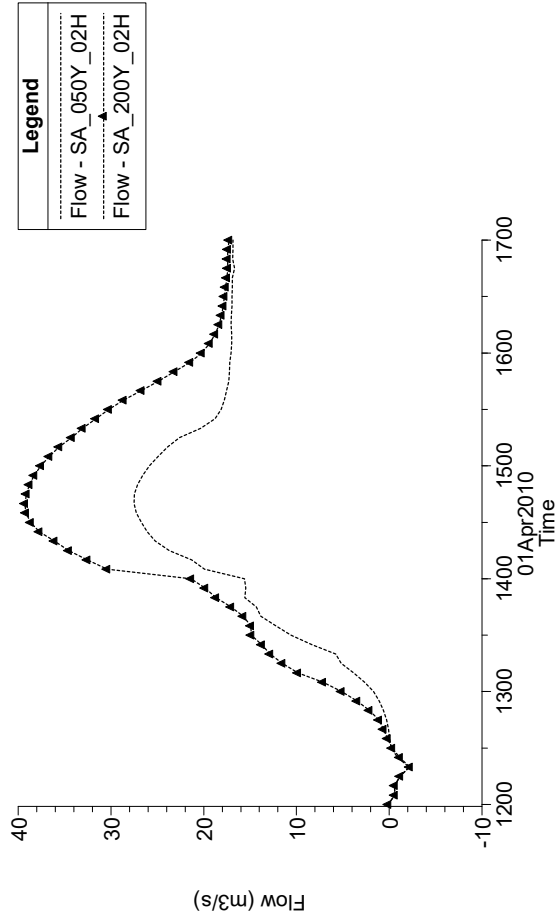
River: FSGMB Reach: FSGMB_01 RS: 142.10



River: FSGMB Reach: FSGMB_01 RS: 21.00



River: FSGMB Reach: FSGMB_01 RS: 0.00



River: FSGMB Reach: FSGMB_01 RS: -25.00

