

COMUNE DI VALLEFOGLIA  
PROVINCIA DI PESARO E URBINO



IL RESPONSABILE  
SETTORE TECNICO  
Dr. Gabriele Giorgi



**VARIANTE GENERALE AL PIANO REGOLATORE  
GENERALE DELLA CITTA' DI VALLEFOGLIA**

**Relazione idrologico idraulica**

ai sensi dell'art. 10 della L.R. 22/11 e della D.G.R. n. 53 del 27/01/2014,  
Titoli II e III

- Verifica di compatibilità idraulica degli strumenti di pianificazione del territorio

*Relativamente alle seguenti aree oggetto di variante:*

**SCHEDE:** n. 13 (Comparto MR16 Loc. Montecchio)  
n. 14 (Comparto MP8 loc. Montecchio)  
n. 15 (Comparto MR4 loc. Montecchio).

**OUTPUT HEC-RAS**

COMUNE DI VALLEFOGLIA  
ADOTTATO CON DELIBERA DI  
CONSIGLIO/GIUNTA COMUNALE

N° 7 DEL 21 GEN 2018  
IL SEGRETARIO COMUNALE  
Dott. Romano Bartolucci



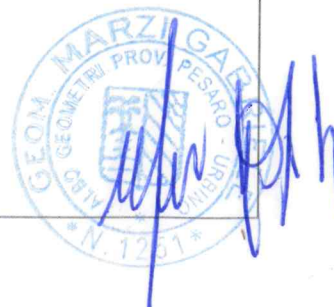
DATA:  
Agosto 2018

COLLABORATORI:  
Dott. Geol. J. Tirincanti  
Geom. P. Pratelli

Dott. Geol. Roberto Romagna

Dott. Ing. Cristian Vescovi

Geom. Gabriele Marzi



Dott. Ing. Cristian Vescovi

Geom. Gabriele Marzi

Dott. Geol. Roberto Romagna

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1 PLAN 01 BASSA OFFICIOSITÀ / STATO ATTUALE

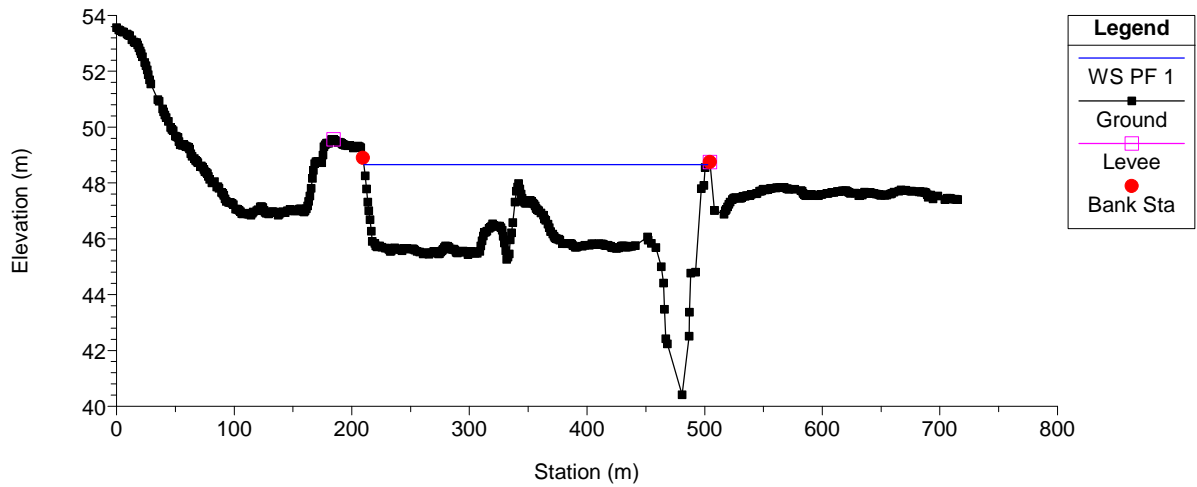
HEC-RAS Plan: PLAN\_01 River: Foglia Reach: Foglia Profile: PF 1

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
Foglia	2885.37	987.09	40.41	48.65	46.61	48.72	0.000695	1.19	875.46	292.23	0.21
Foglia	2589.61	987.09	38.86	46.84	46.84	48.11	0.006983	5.01	197.21	77.21	1.00
Foglia	2350	987.09	40.56	47.01	43.91	47.26	0.000784	2.21	447.25	84.43	0.31
Foglia	2345	Inl Struct									
Foglia	2340	987.09	40.78	46.79	43.85	47.05	0.000858	2.28	433.69	84.02	0.32
Foglia	2330	987.09	40.78	46.78	43.85	47.04	0.000866	2.28	432.32	84.00	0.32
Foglia	2328	Bridge									
Foglia	2326.71	987.09	39.14	46.09	43.31	46.37	0.001367	2.35	420.49	81.38	0.33
Foglia	2282.9	987.09	39.23	45.34	44.62	46.22	0.003803	4.16	237.38	77.97	0.76
Foglia	2120.29	987.09	37.20	44.64	44.20	45.52	0.004868	4.17	237.05	85.80	0.79
Foglia	2067.33	987.09	37.23	45.08	43.94	45.19	0.000969	1.49	661.75	274.74	0.31
Foglia	1858.19	987.09	38.42	44.55	43.63	44.76	0.006513	2.05	483.02	249.20	0.46
Foglia	1743.09	987.09	36.41	43.97	42.66	44.12	0.004710	1.73	571.08	309.82	0.41
Foglia	1587.51	987.09	37.02	43.58	41.49	43.69	0.001701	1.42	695.08	243.36	0.27
Foglia	1415.04	987.09	36.50	43.19	41.86	43.40	0.001508	2.05	481.82	202.55	0.42
Foglia	1242.69	987.09	35.47	42.95	41.67	43.11	0.001696	1.77	558.51	286.34	0.39
Foglia	1000.25	987.09	35.79	42.57	40.79	42.73	0.001440	1.77	556.23	257.96	0.39
Foglia	768.43	987.09	35.70	41.93	41.01	42.13	0.005761	1.99	494.88	240.93	0.44
Foglia	622.27	987.09	35.39	41.50	40.08	41.67	0.001950	1.82	543.31	224.94	0.35
Foglia	459.85	987.09	34.62	41.24	40.04	41.39	0.001412	1.74	566.52	428.85	0.37
Foglia	228.89	987.09	34.13	40.62	39.49	40.95	0.002572	2.52	391.53	148.13	0.50
Foglia	29.76	987.09	33.85	39.95	39.02	40.38	0.003001	2.91	338.69	122.31	0.56

Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

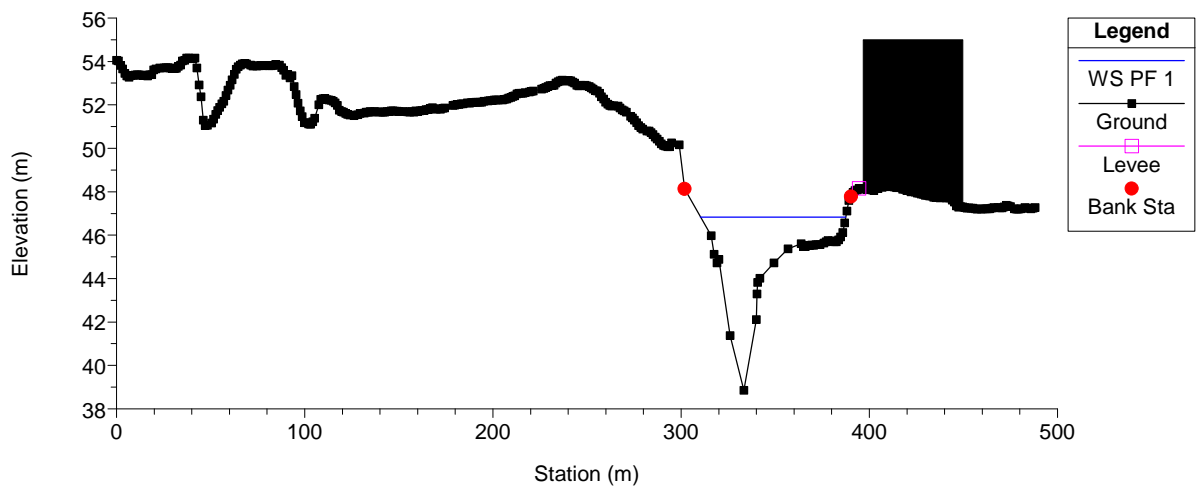
River = Foglia Reach = Foglia RS = 2885.37 Sezione Regione 01086



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

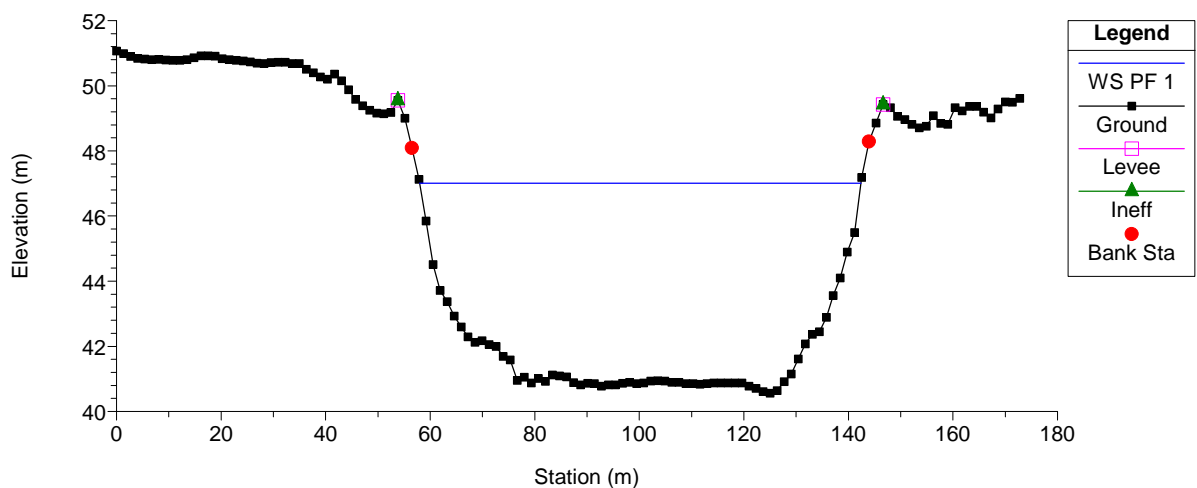
River = Foglia Reach = Foglia RS = 2589.61 Sezione Regione 01085



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

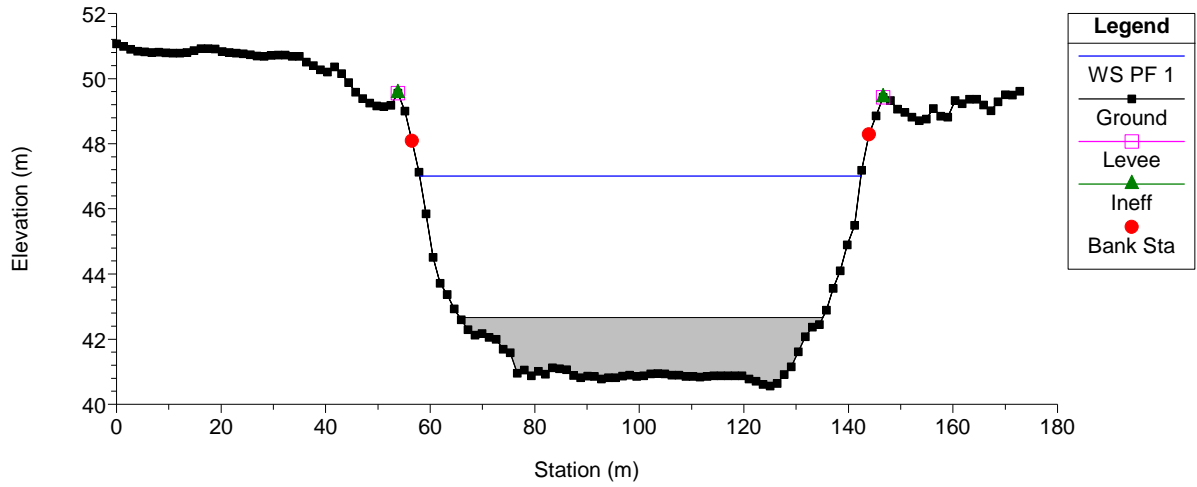
River = Foglia Reach = Foglia RS = 2350 Sezione DTM 01084/1\_monteBriglia



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

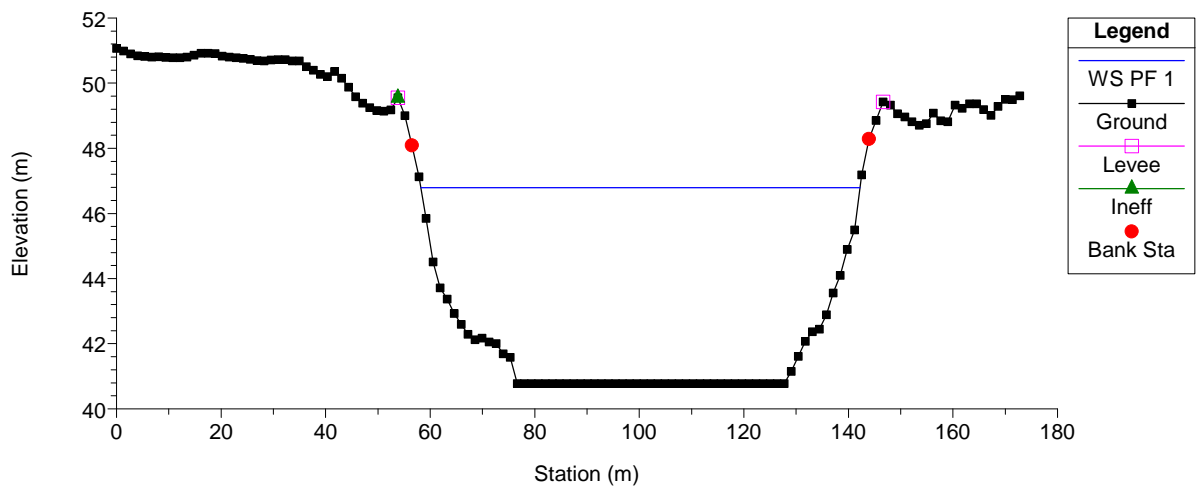
River = Foglia Reach = Foglia RS = 2345 IS Briglia



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

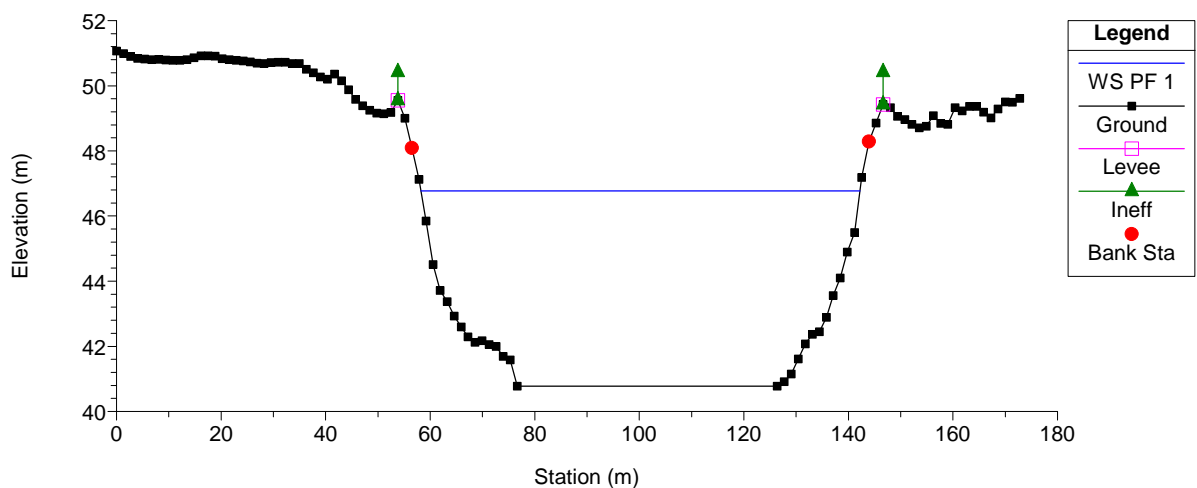
River = Foglia Reach = Foglia RS = 2340 Sezione DTM 01084/1



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

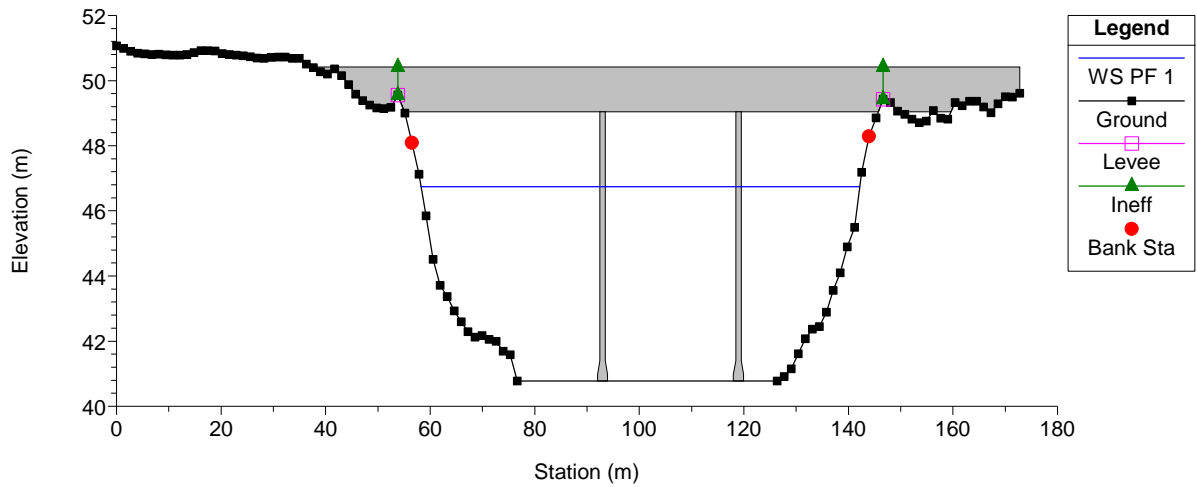
River = Foglia Reach = Foglia RS = 2330 Sezione DTM 01084/1



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

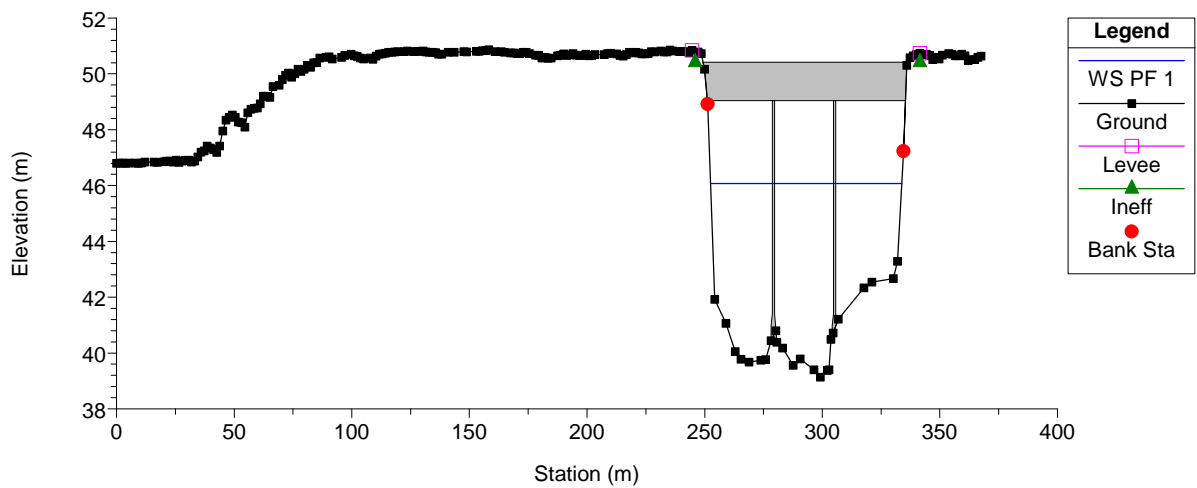
River = Foglia Reach = Foglia RS = 2328 BR Ponte



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

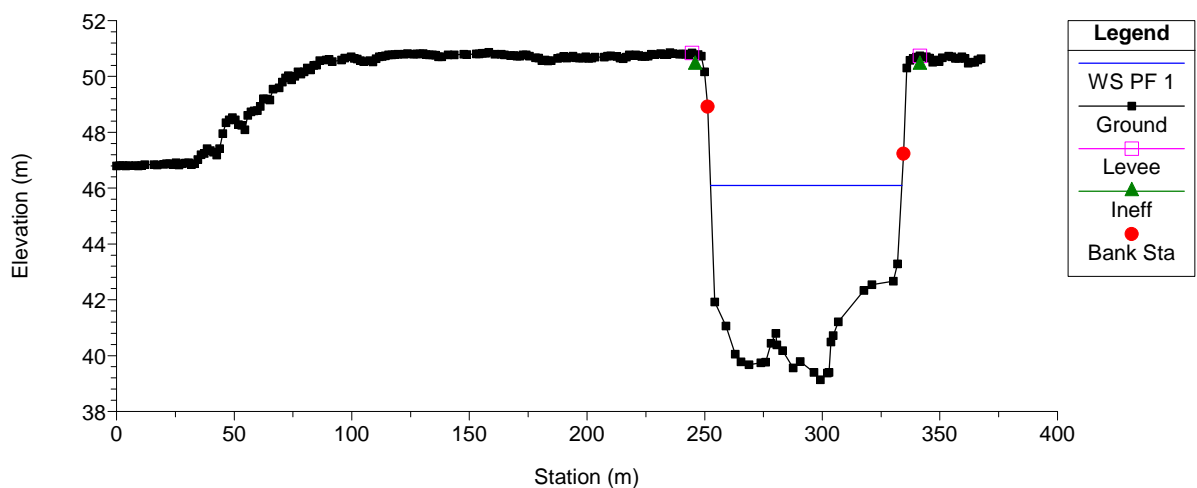
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Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

River = Foglia Reach = Foglia RS = 2326.71 Sezione Regione 01084

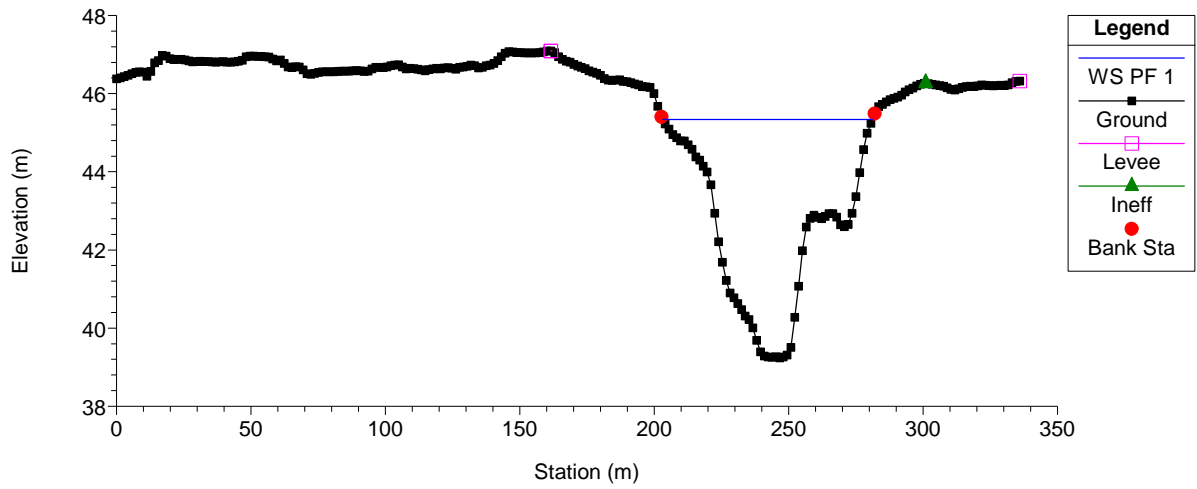




Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

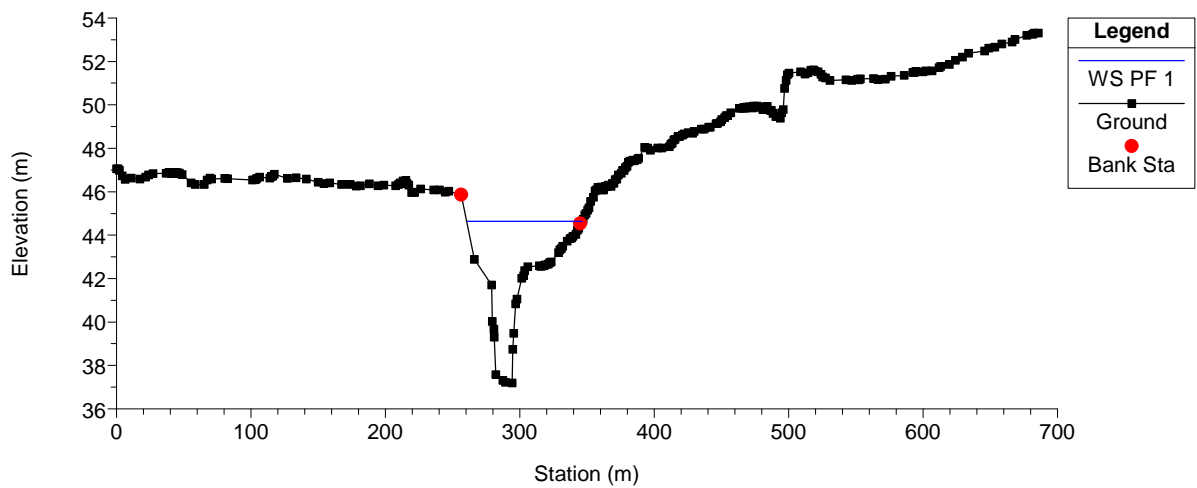
River = Foglia Reach = Foglia RS = 2282.9 Sezione DTM 01083/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

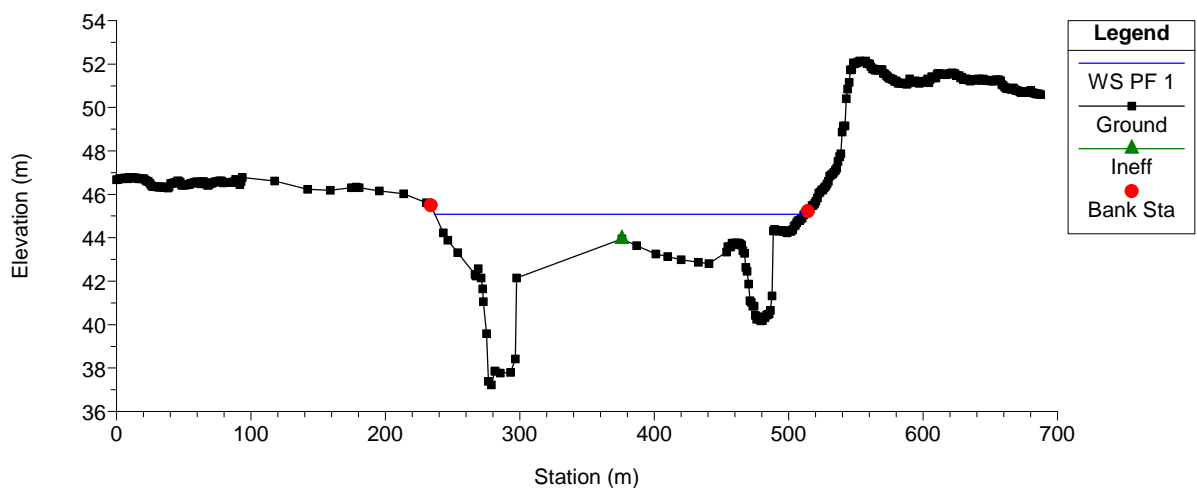
River = Foglia Reach = Foglia RS = 2120.29 Sezione Regione 01083



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

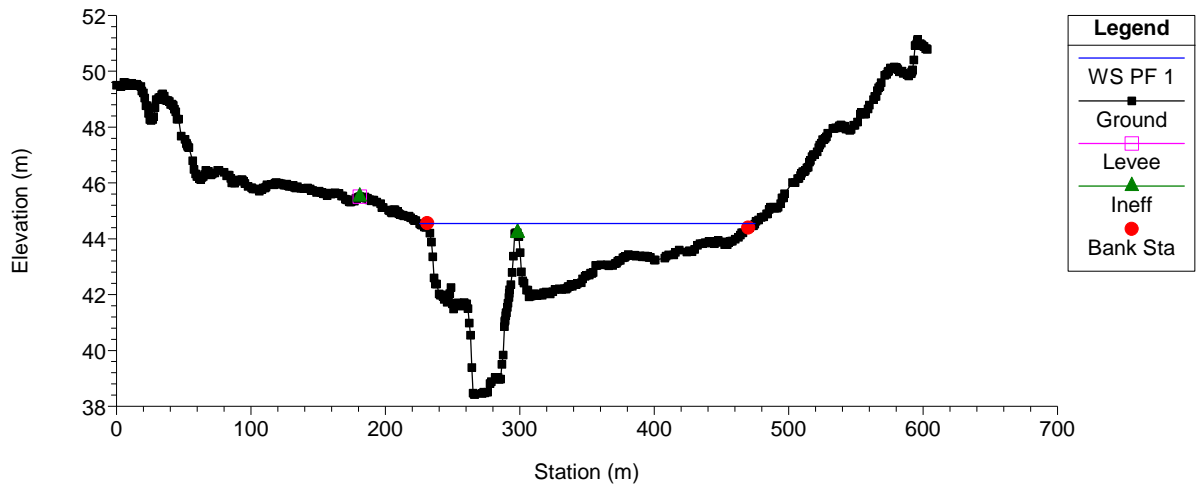
River = Foglia Reach = Foglia RS = 2067.33 Sezione Regione 01082



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

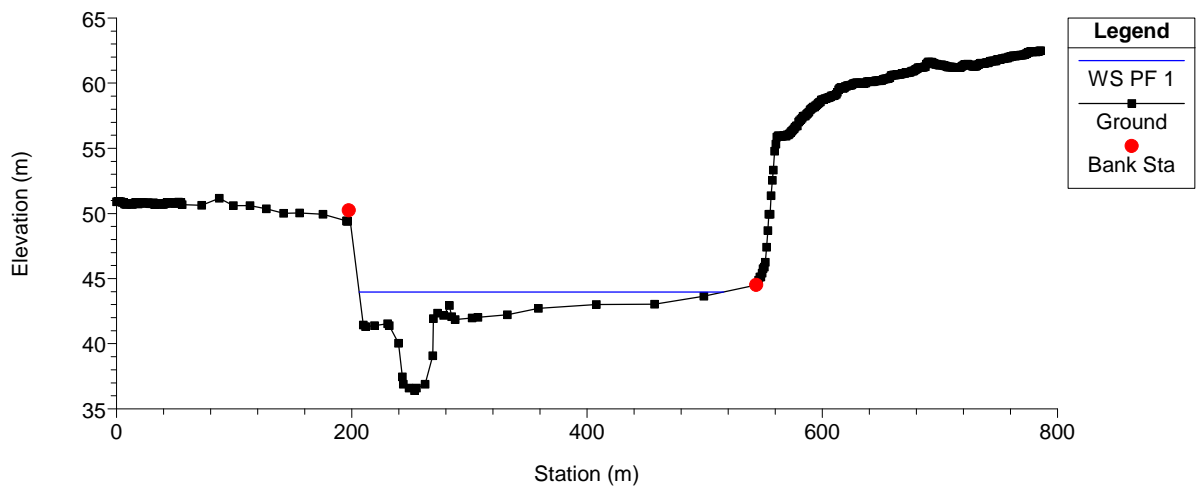
River = Foglia Reach = Foglia RS = 1858.19 Sezione DTM 01081/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

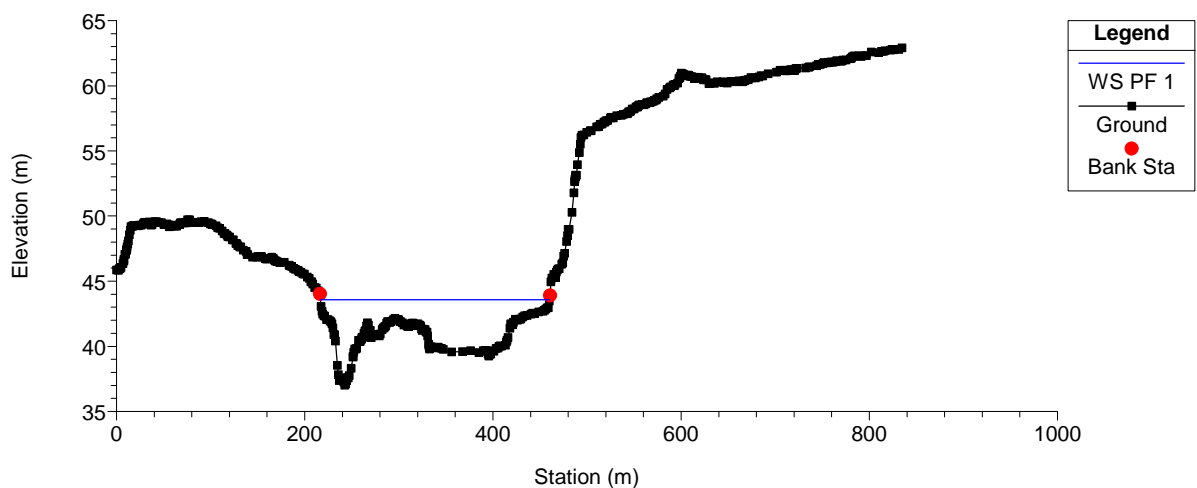
River = Foglia Reach = Foglia RS = 1743.09 Sezione Regione 01081



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

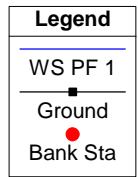
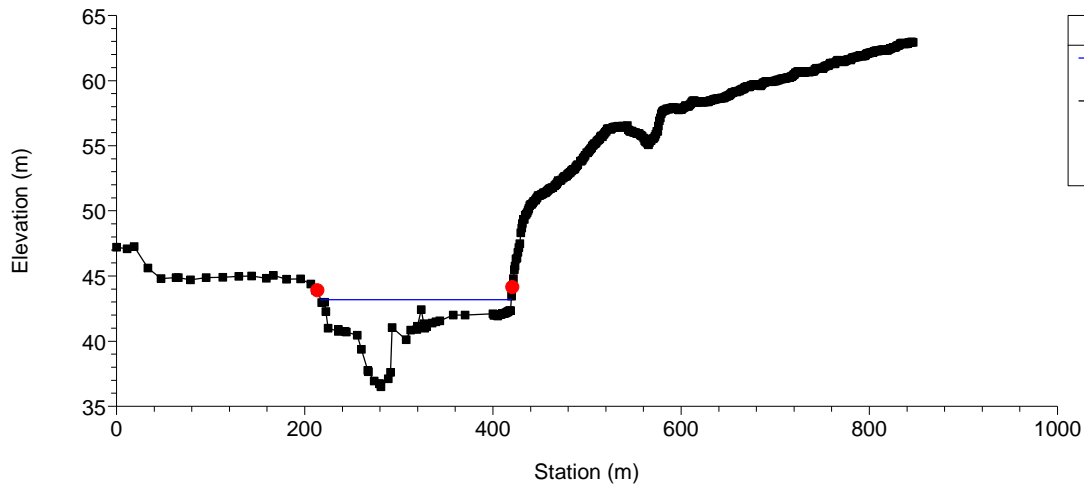
River = Foglia Reach = Foglia RS = 1587.51 Sezione DTM 01080/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

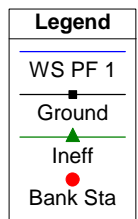
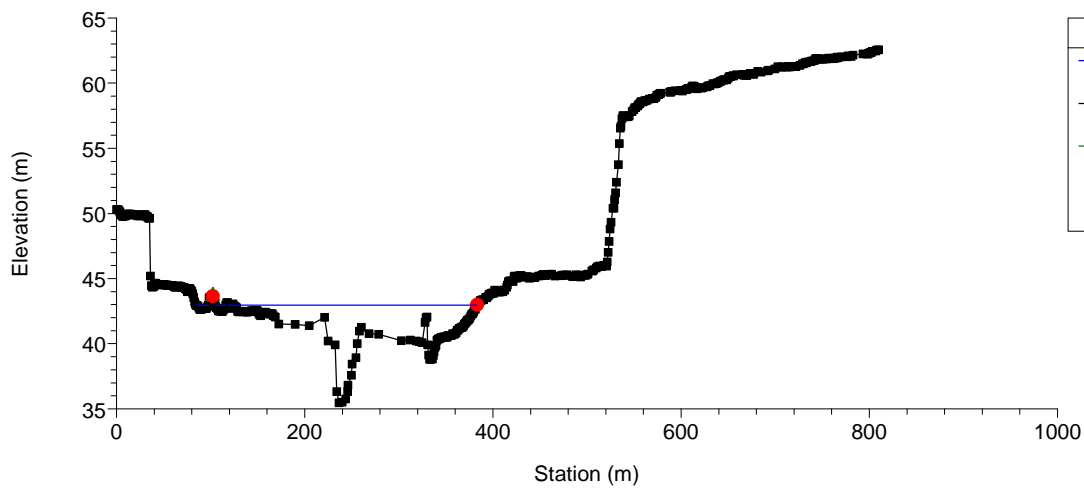
River = Foglia Reach = Foglia RS = 1415.04 Sezione Regione 01080



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

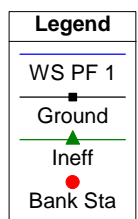
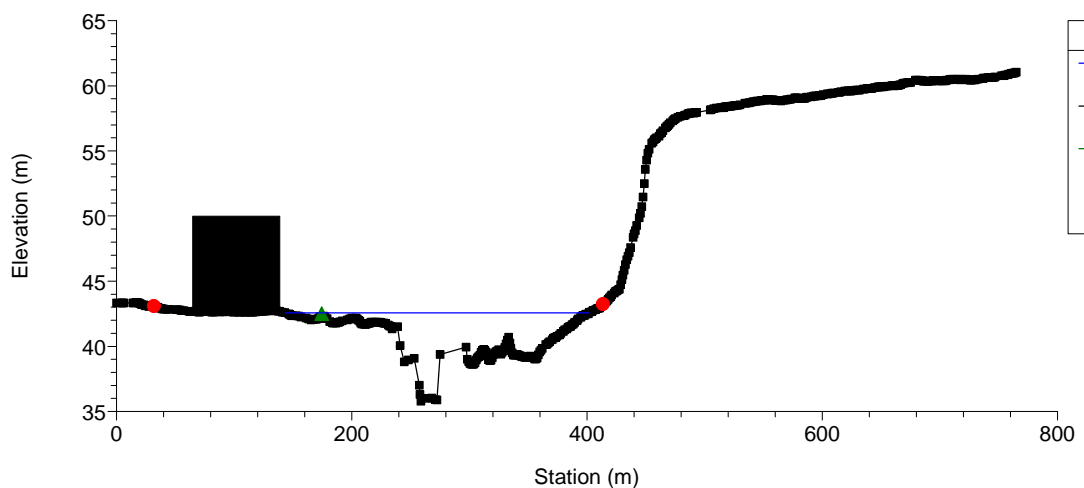
River = Foglia Reach = Foglia RS = 1242.69 Sezione Regione 01079



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

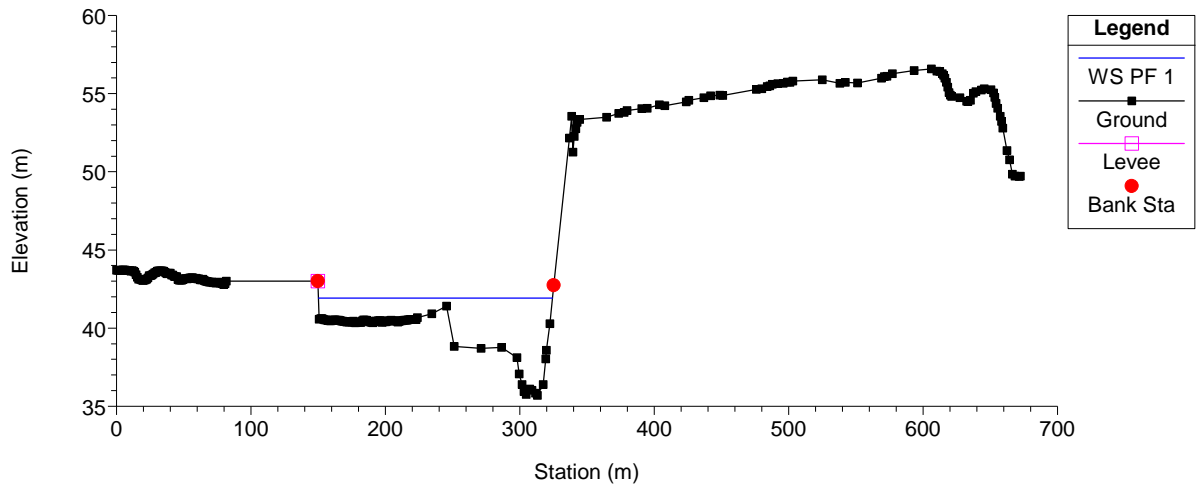
River = Foglia Reach = Foglia RS = 1000.25 Sezione Regione 01078



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

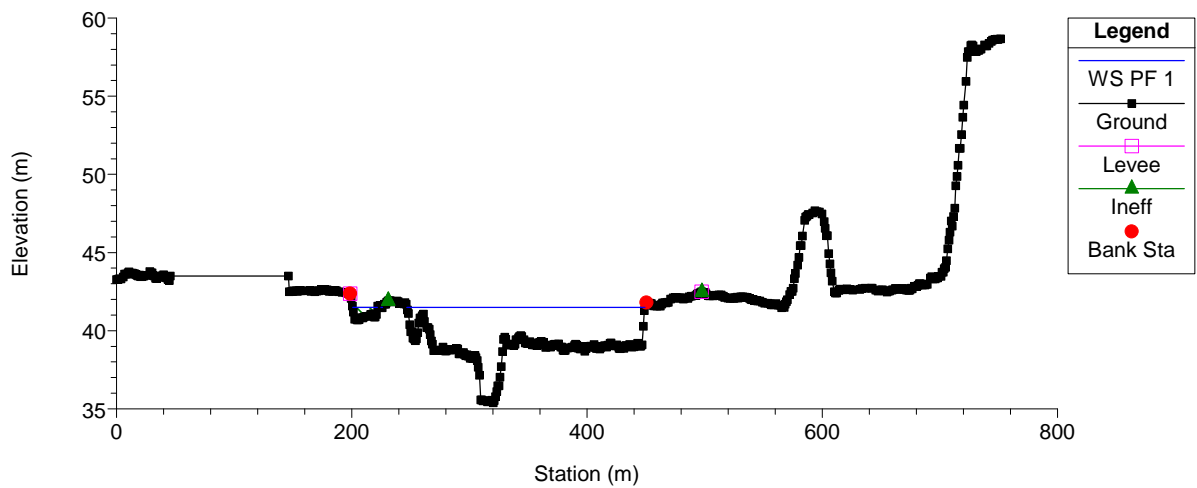
River = Foglia Reach = Foglia RS = 768.43 Sezione Regione 01077



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

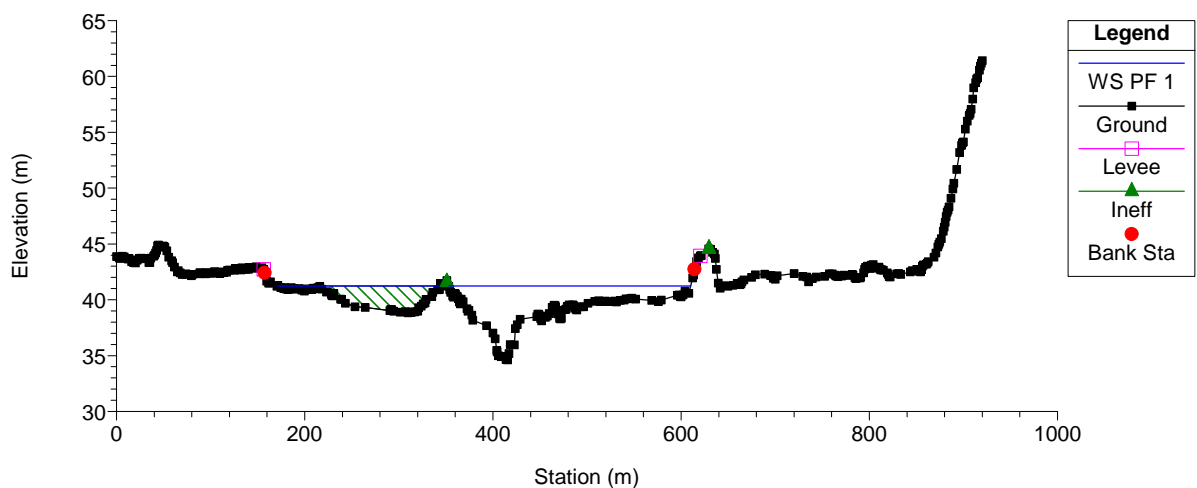
River = Foglia Reach = Foglia RS = 622.27 Sezione DTM 01076/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

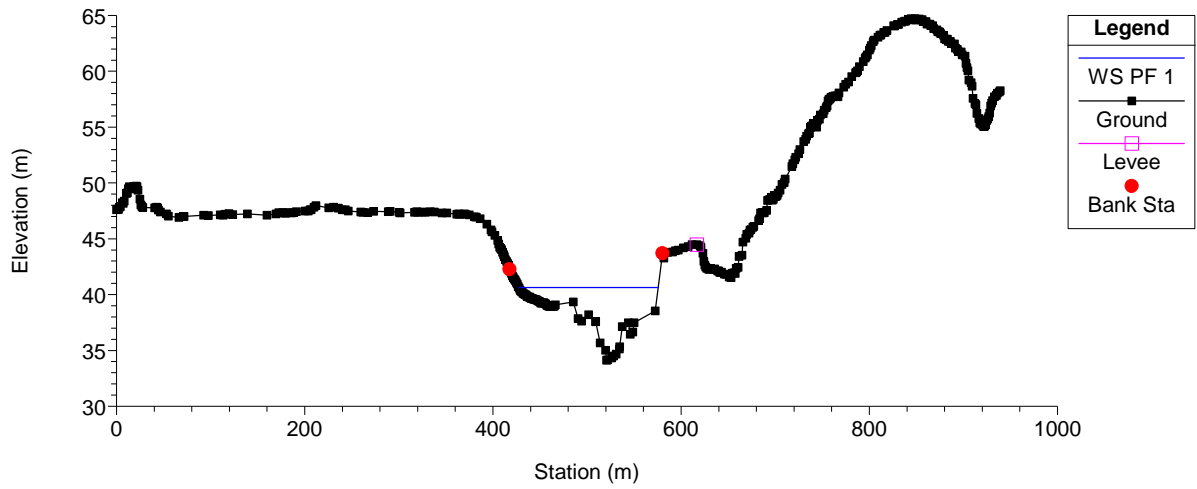
River = Foglia Reach = Foglia RS = 459.85 Sezione Regione 01076



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

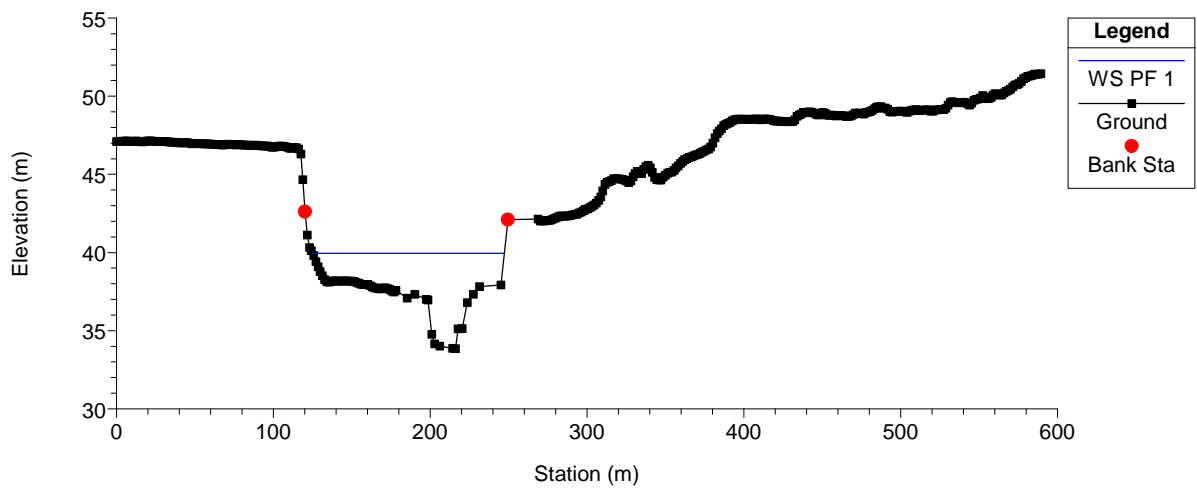
River = Foglia Reach = Foglia RS = 228.89 Sezione Regione 01075



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_01 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

River = Foglia Reach = Foglia RS = 29.76 Sezione Regione 01074

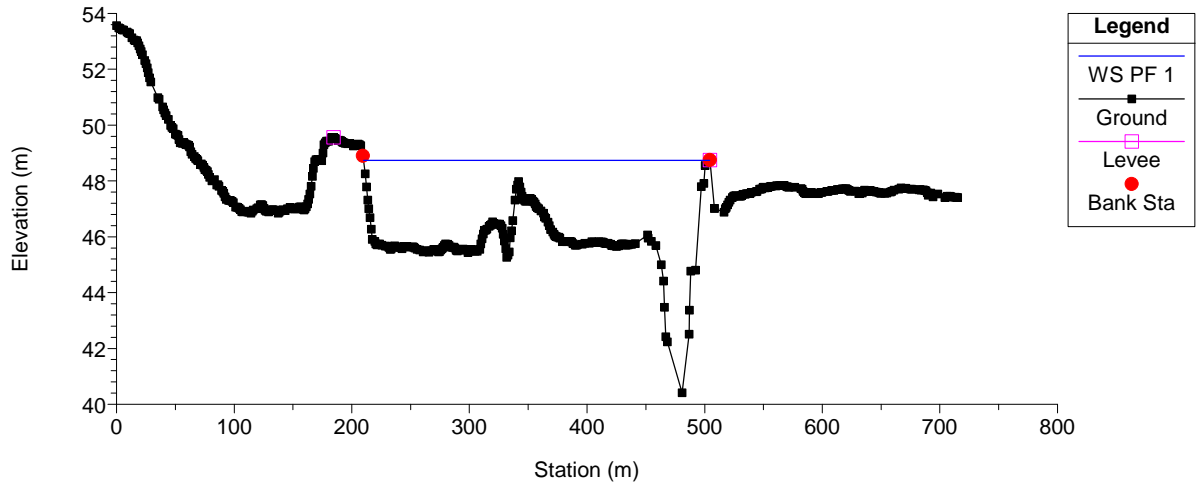


2 PLAN 02 ALTA OFFICIOSITÀ / STATO ATTUALE

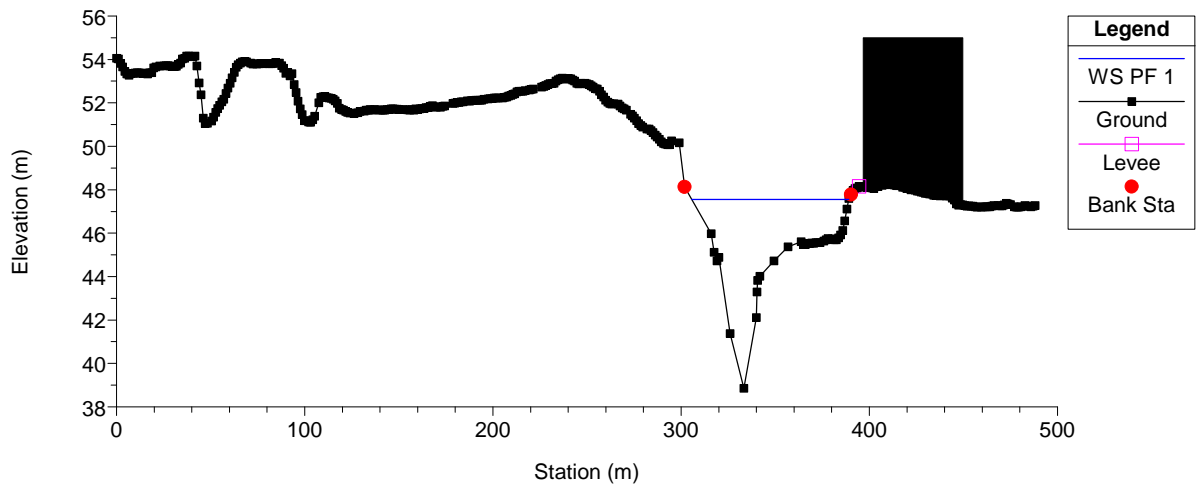
HEC-RAS Plan: PLAN\_02 River: Foglia Reach: Foglia Profile: PF 1

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
Foglia	2885.37	987.09	40.41	48.74	46.53	48.80	0.000739	1.10	901.11	294.33	0.20
Foglia	2589.61	987.09	38.86	47.55	46.84	48.32	0.006500	3.87	254.83	83.45	0.71
Foglia	2350	987.09	40.56	47.28	43.91	47.50	0.001301	2.10	470.27	85.03	0.29
Foglia	2345	Inl Struct									
Foglia	2340	987.09	40.78	47.10	43.85	47.34	0.001379	2.14	460.23	84.61	0.29
Foglia	2330	987.09	40.78	47.08	43.85	47.32	0.001397	2.15	458.21	84.57	0.30
Foglia	2328	Bridge									
Foglia	2326.71	987.09	39.14	46.40	43.31	46.65	0.001309	2.21	445.77	81.71	0.30
Foglia	2282.9	987.09	39.23	45.91	44.62	46.52	0.004180	3.47	284.27	89.97	0.62
Foglia	2120.29	987.09	37.20	44.99	44.20	45.69	0.006298	3.69	268.31	89.85	0.67
Foglia	2067.33	987.09	37.23	45.29	43.94	45.39	0.001150	1.37	721.31	279.74	0.27
Foglia	1858.19	987.09	38.42	44.78	43.63	44.95	0.004770	1.83	542.02	262.05	0.39
Foglia	1743.09	987.09	36.41	44.39	42.66	44.49	0.003208	1.40	706.40	331.82	0.31
Foglia	1587.51	987.09	37.02	44.12	41.49	44.19	0.001198	1.20	825.41	246.12	0.21
Foglia	1415.04	987.09	36.50	43.79	41.86	43.93	0.001883	1.63	605.77	206.06	0.30
Foglia	1242.69	987.09	35.47	43.51	41.67	43.61	0.001685	1.38	728.59	305.17	0.27
Foglia	1000.25	987.09	35.79	43.10	40.79	43.20	0.001724	1.40	706.52	310.80	0.29
Foglia	768.43	987.09	35.70	42.59	41.01	42.71	0.002621	1.51	654.99	243.63	0.29
Foglia	622.27	987.09	35.39	42.28	40.08	42.37	0.001966	1.32	760.34	294.06	0.24
Foglia	459.85	987.09	34.62	42.16	40.04	42.20	0.000549	0.82	1199.44	455.13	0.16
Foglia	228.89	987.09	34.13	41.78	39.49	41.93	0.003186	1.74	568.20	157.32	0.29
Foglia	29.76	987.09	33.85	41.10	39.02	41.31	0.003004	2.05	482.34	127.00	0.34

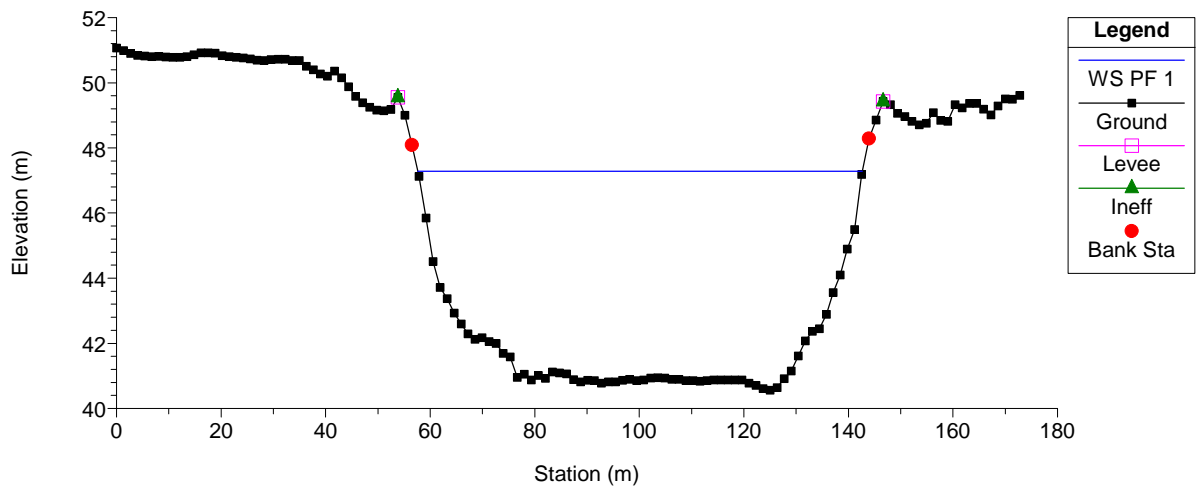
Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2885.37 Sezione Regione 01086



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2589.61 Sezione Regione 01085



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2350 Sezione DTM 01084/1\_monteBriglia

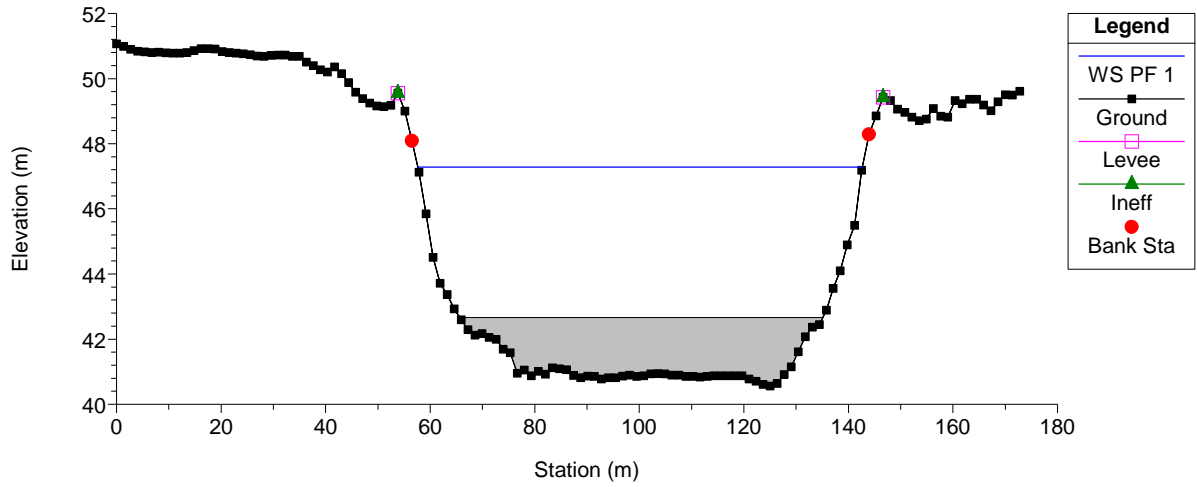




Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

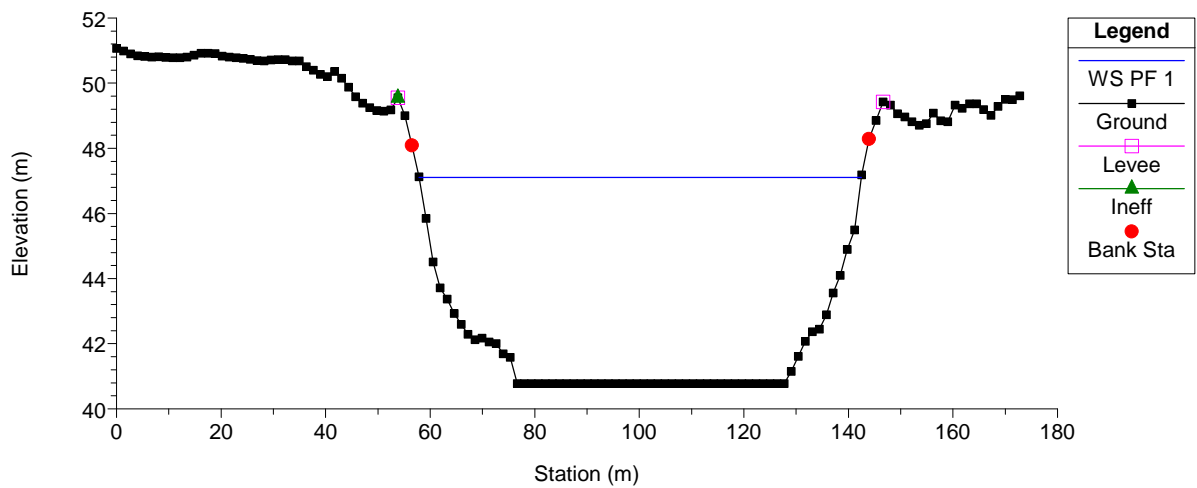
River = Foglia Reach = Foglia RS = 2345 IS Briglia



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

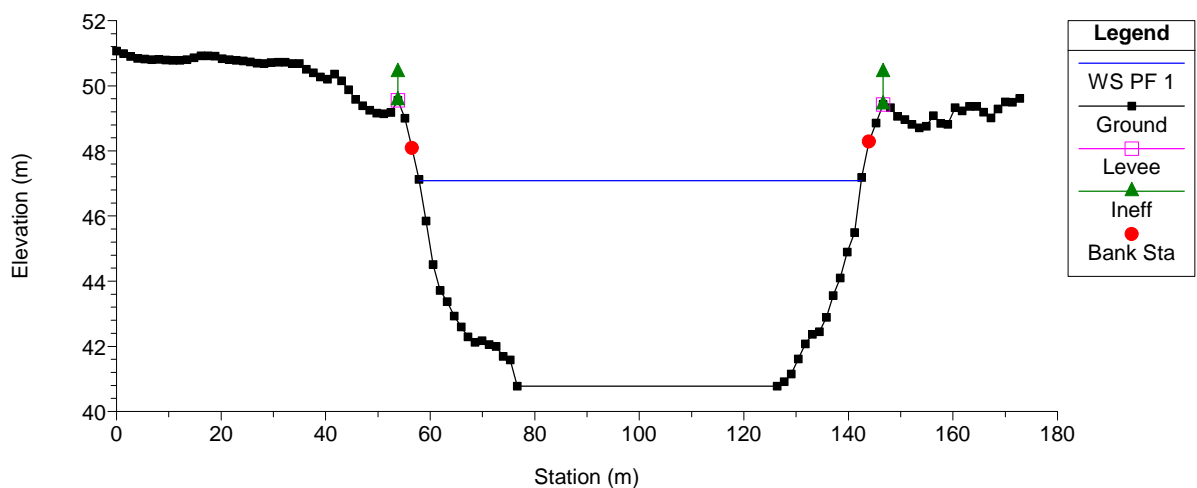
River = Foglia Reach = Foglia RS = 2340 Sezione DTM 01084/1



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

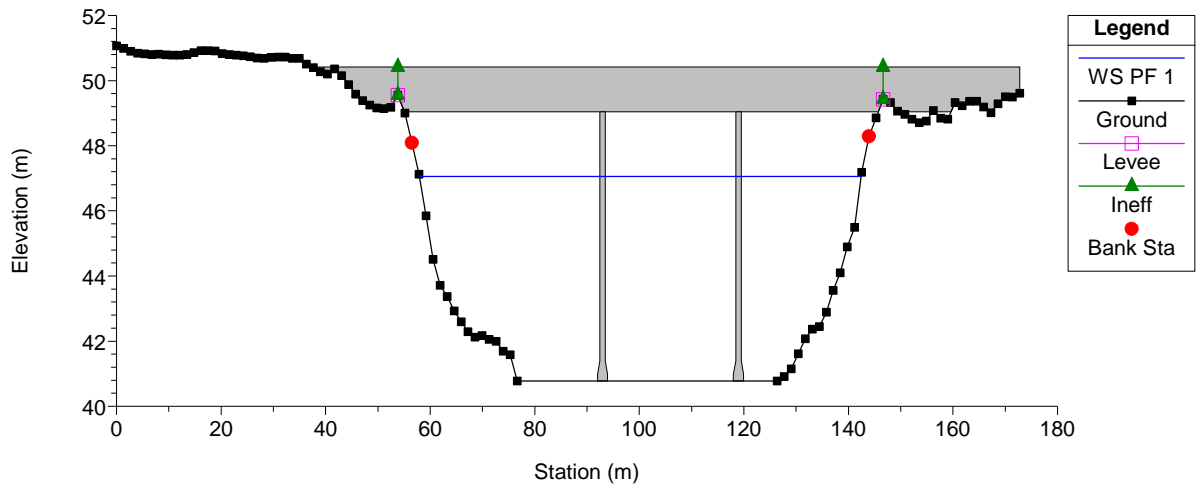
River = Foglia Reach = Foglia RS = 2330 Sezione DTM 01084/1



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

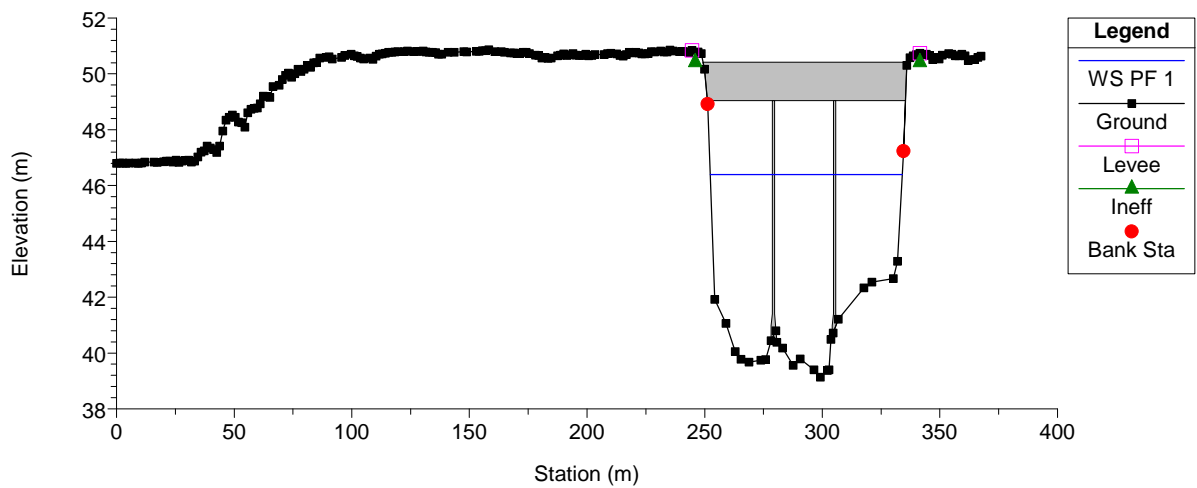
River = Foglia Reach = Foglia RS = 2328 BR Ponte



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

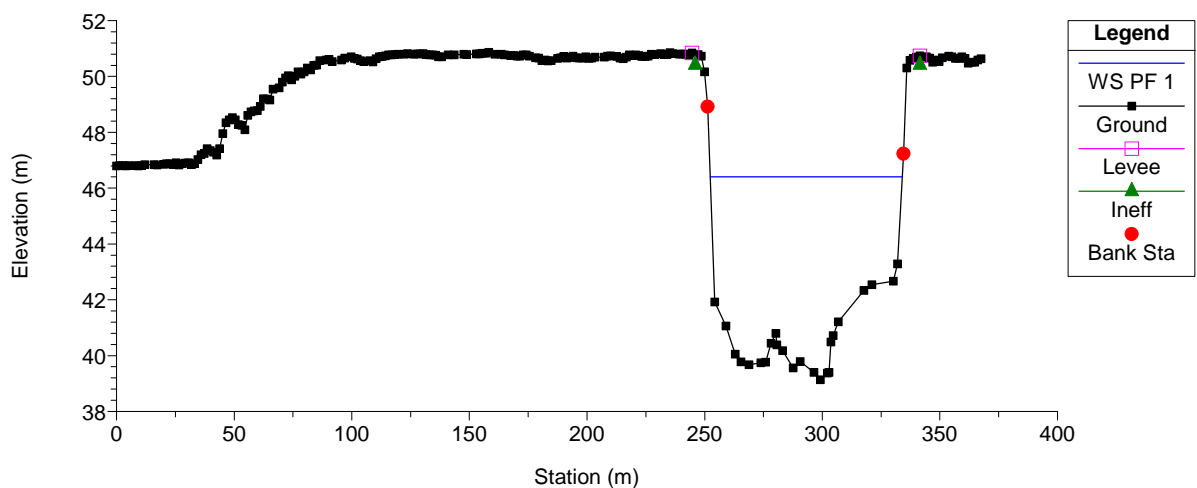
River = Foglia Reach = Foglia RS = 2328 BR Ponte



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

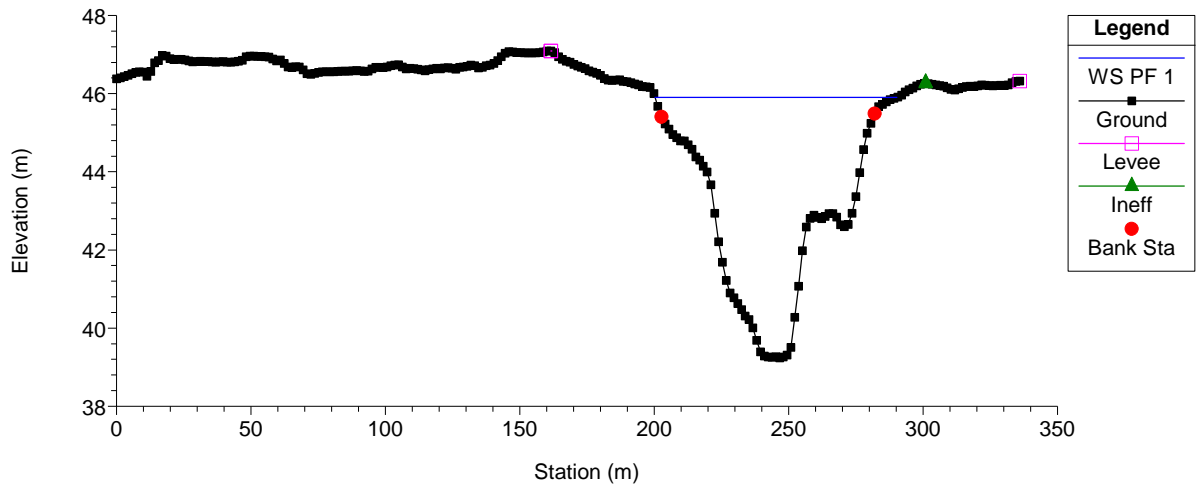
River = Foglia Reach = Foglia RS = 2326.71 Sezione Regione 01084



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

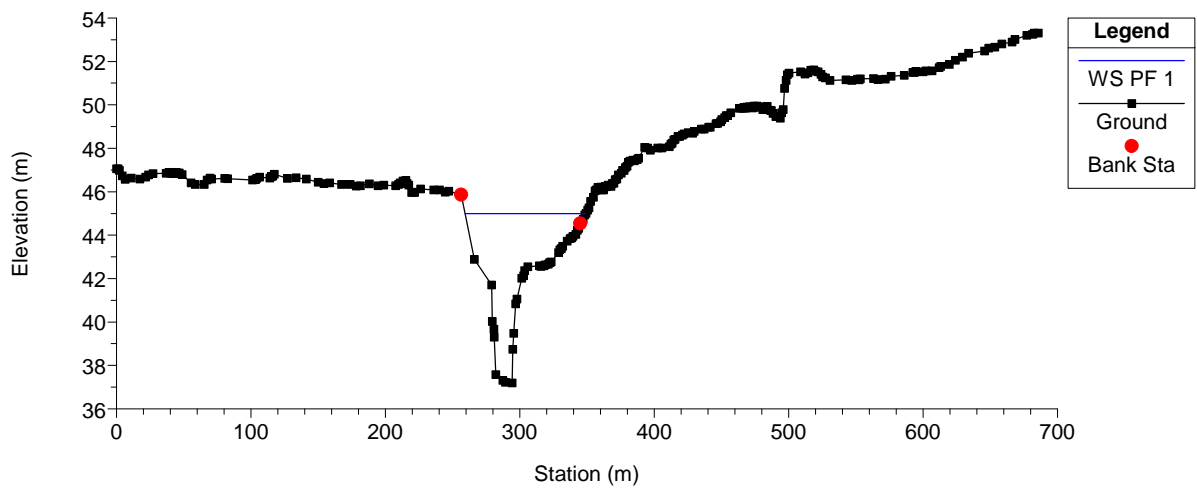
River = Foglia Reach = Foglia RS = 2282.9 Sezione DTM 01083/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

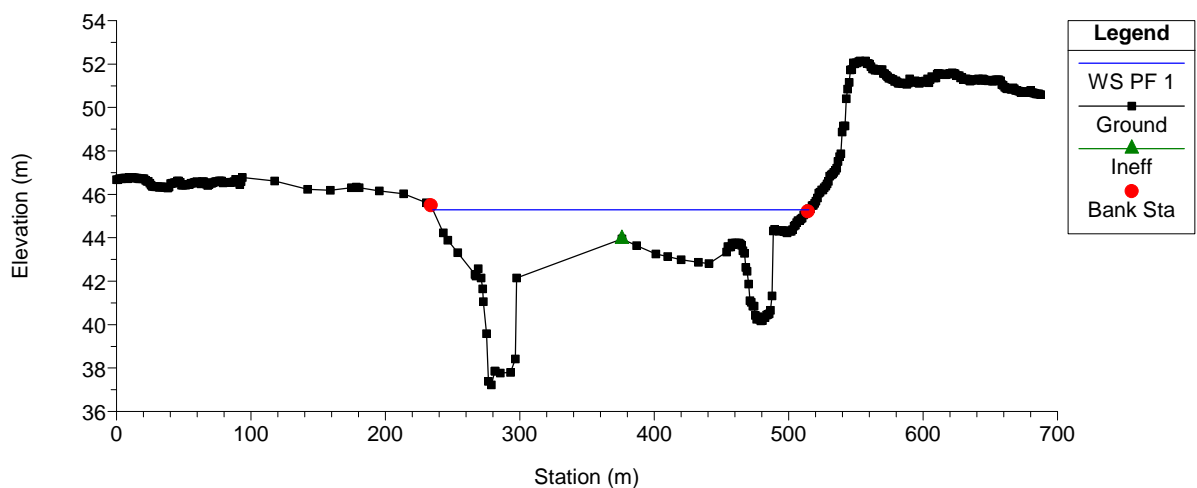
River = Foglia Reach = Foglia RS = 2120.29 Sezione Regione 01083



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

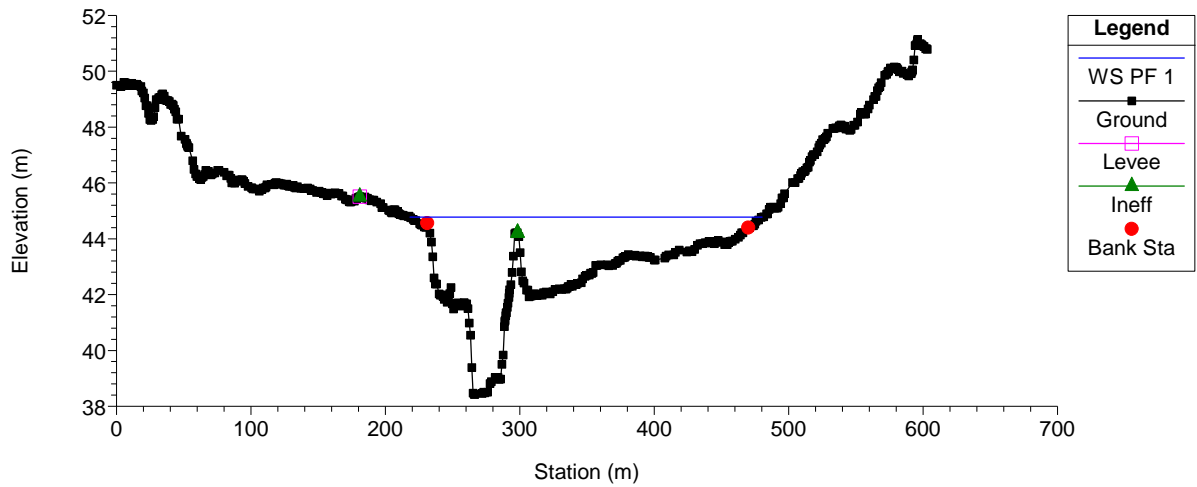
River = Foglia Reach = Foglia RS = 2067.33 Sezione Regione 01082



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

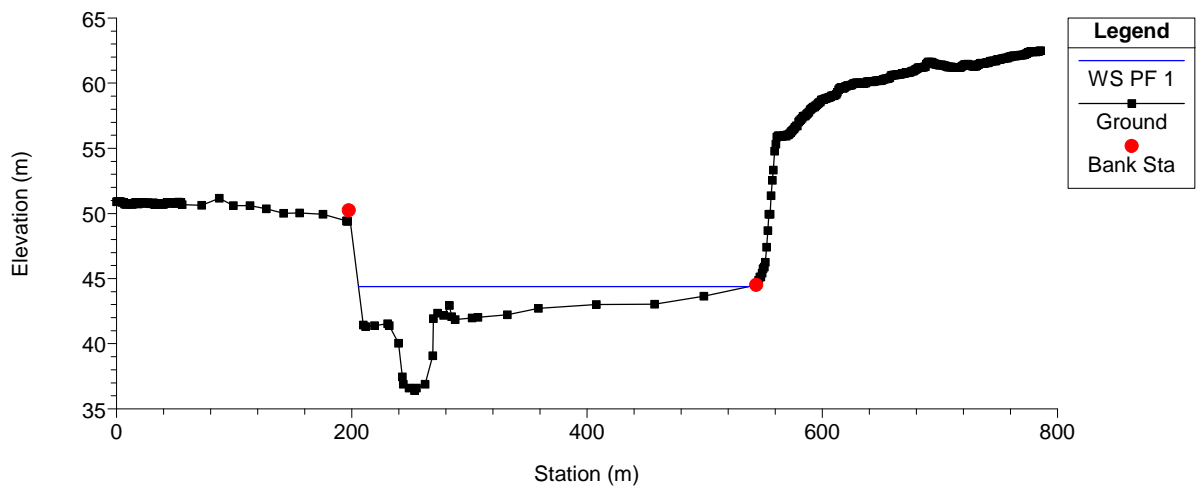
River = Foglia Reach = Foglia RS = 1858.19 Sezione DTM 01081/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

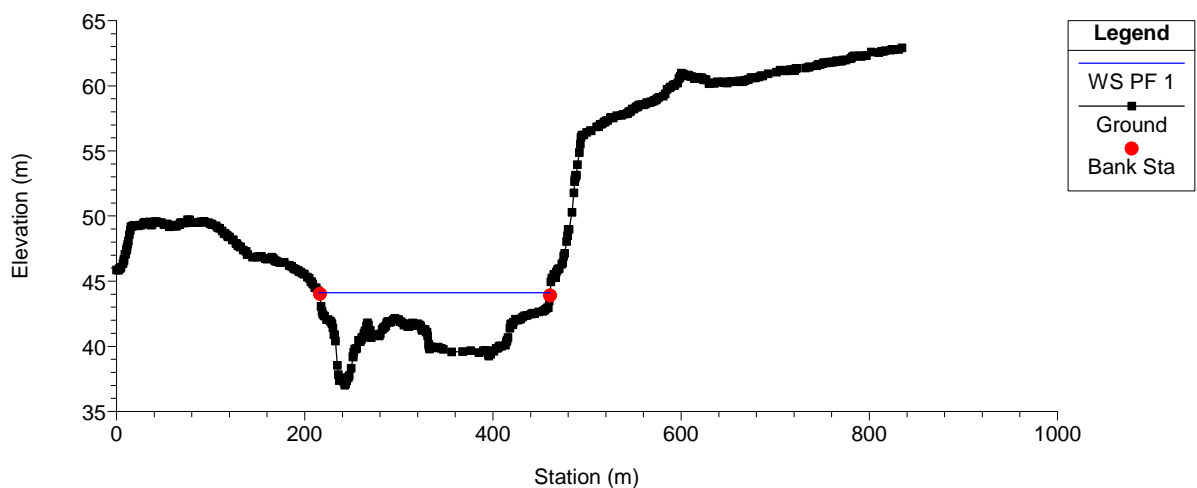
River = Foglia Reach = Foglia RS = 1743.09 Sezione Regione 01081



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

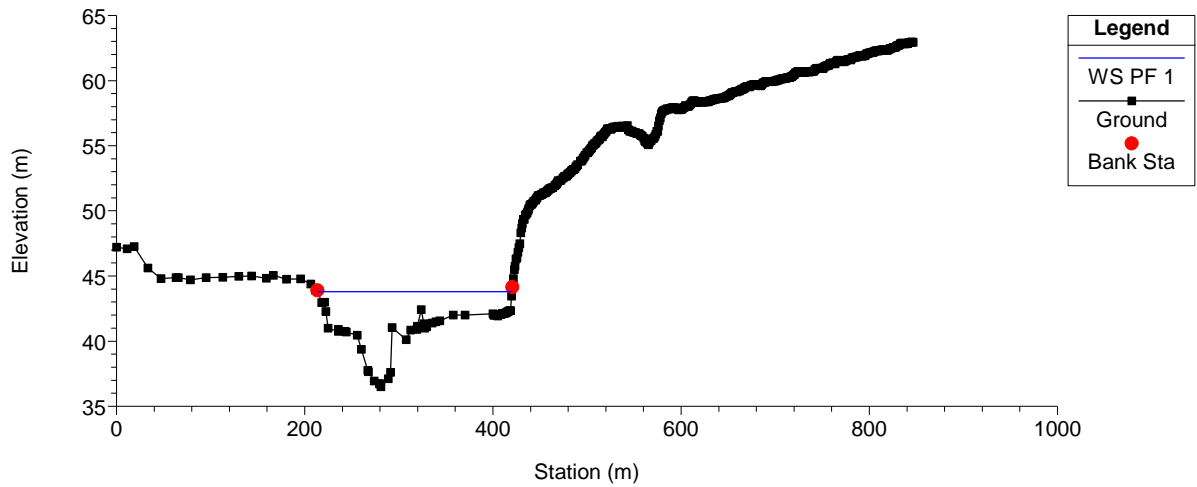
River = Foglia Reach = Foglia RS = 1587.51 Sezione DTM 01080/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

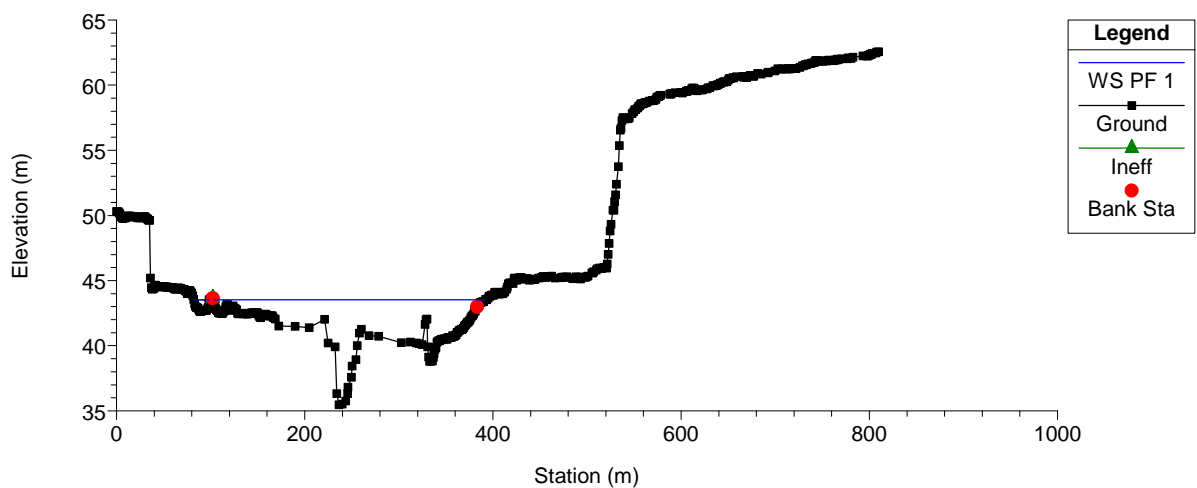
River = Foglia Reach = Foglia RS = 1415.04 Sezione Regione 01080



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

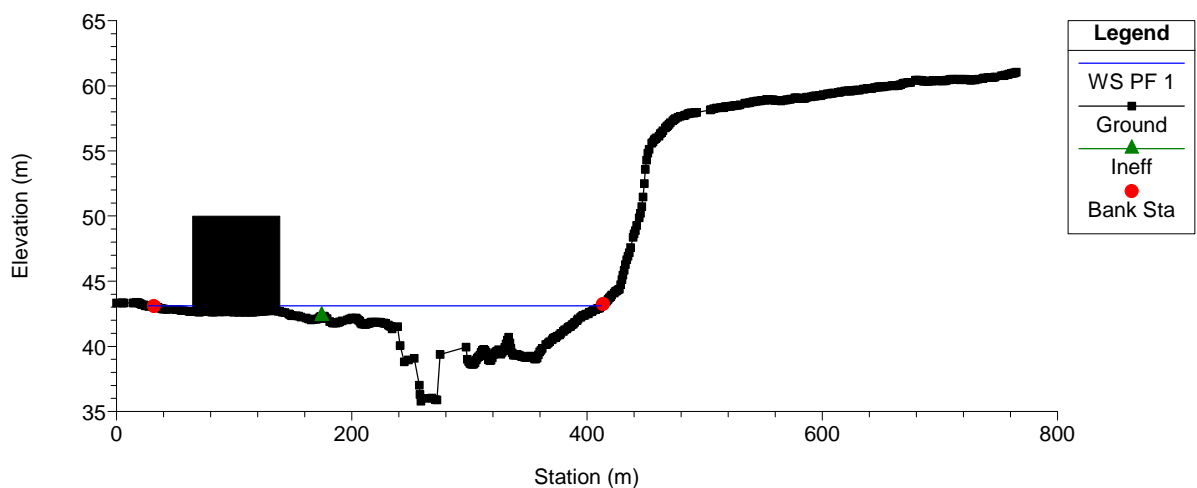
River = Foglia Reach = Foglia RS = 1242.69 Sezione Regione 01079



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

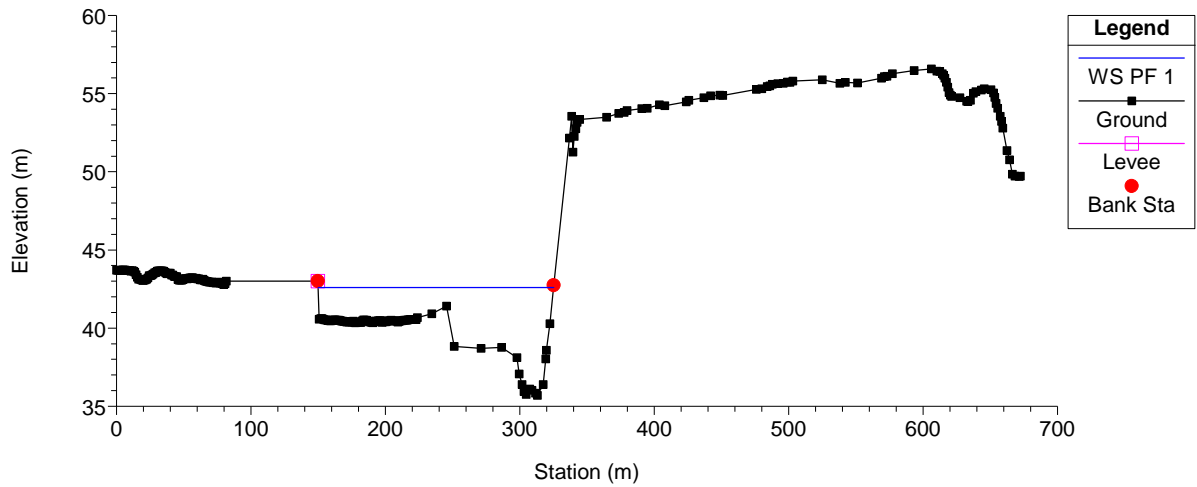
River = Foglia Reach = Foglia RS = 1000.25 Sezione Regione 01078



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

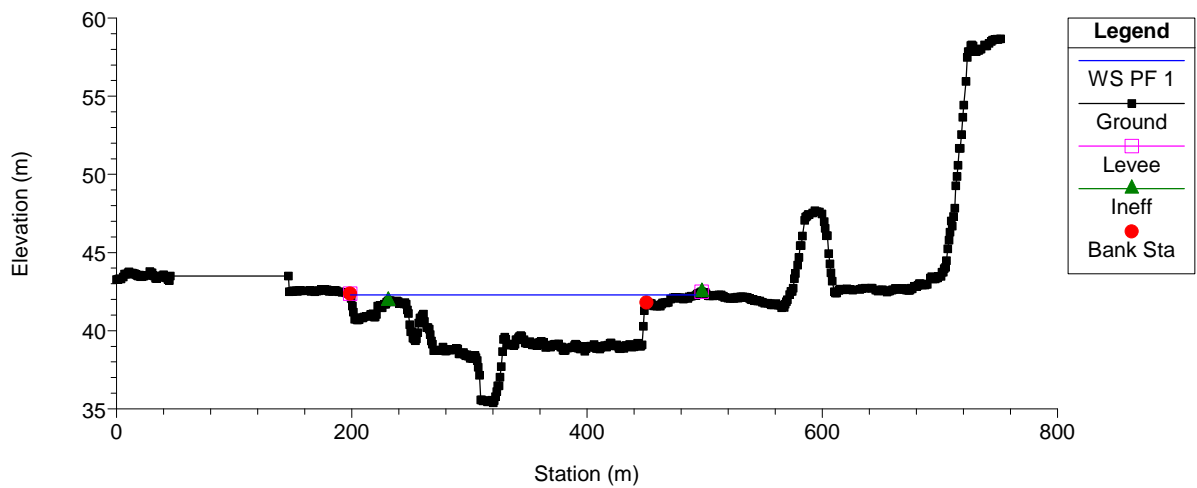
River = Foglia Reach = Foglia RS = 768.43 Sezione Regione 01077



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

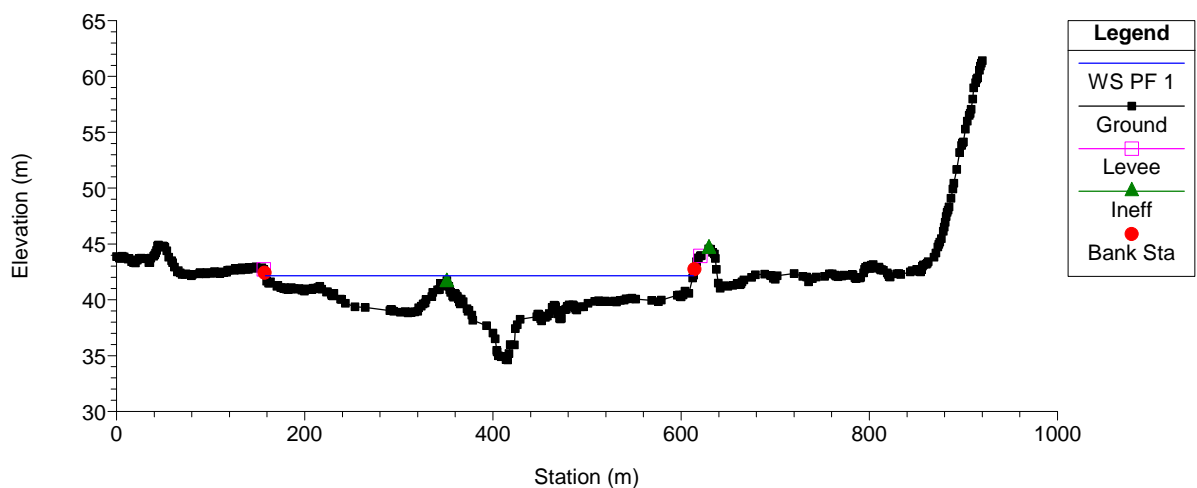
River = Foglia Reach = Foglia RS = 622.27 Sezione DTM 01076/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

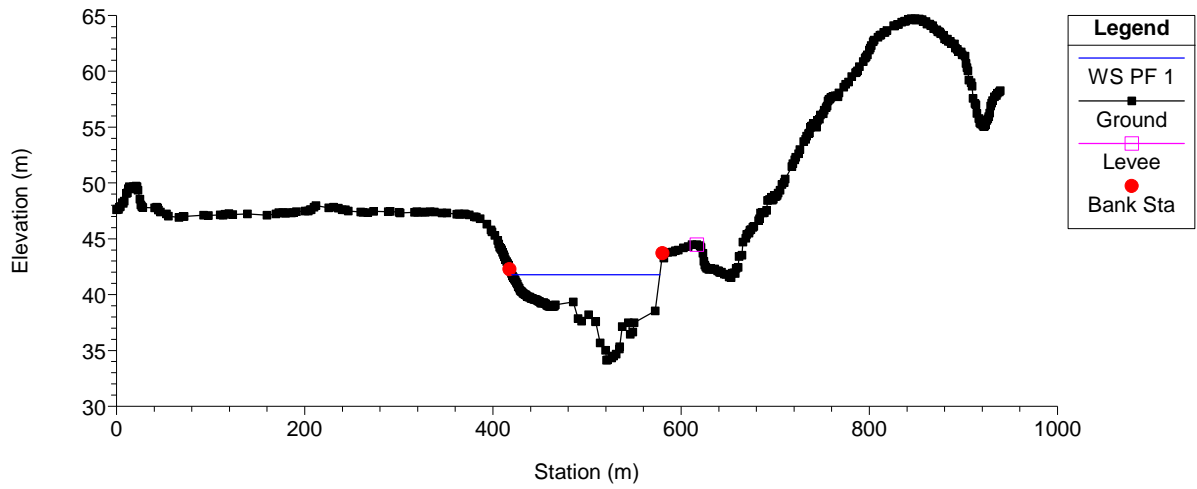
River = Foglia Reach = Foglia RS = 459.85 Sezione Regione 01076



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

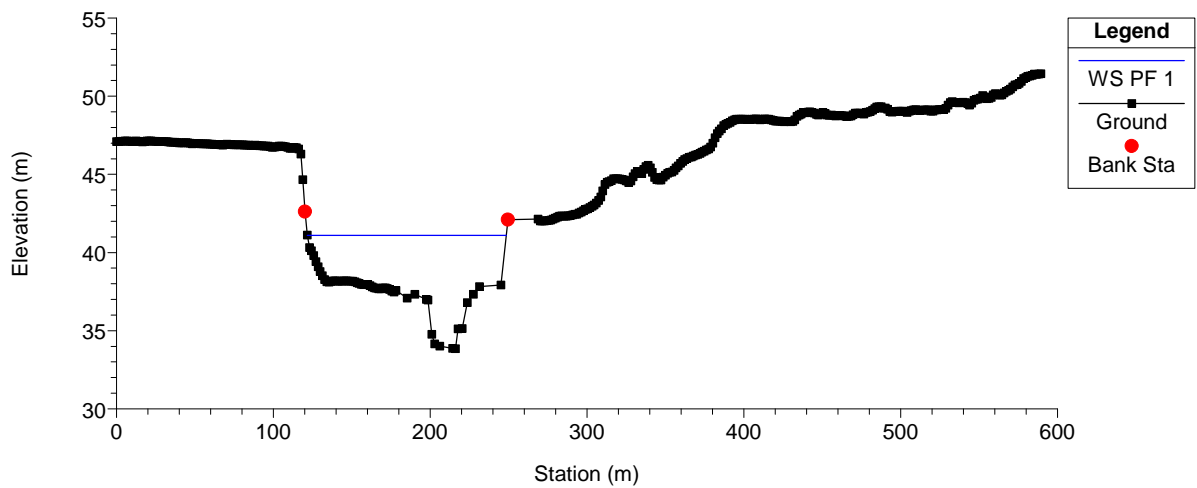
River = Foglia Reach = Foglia RS = 228.89 Sezione Regione 01075



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) PLAN\_02 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

River = Foglia Reach = Foglia RS = 29.76 Sezione Regione 01074



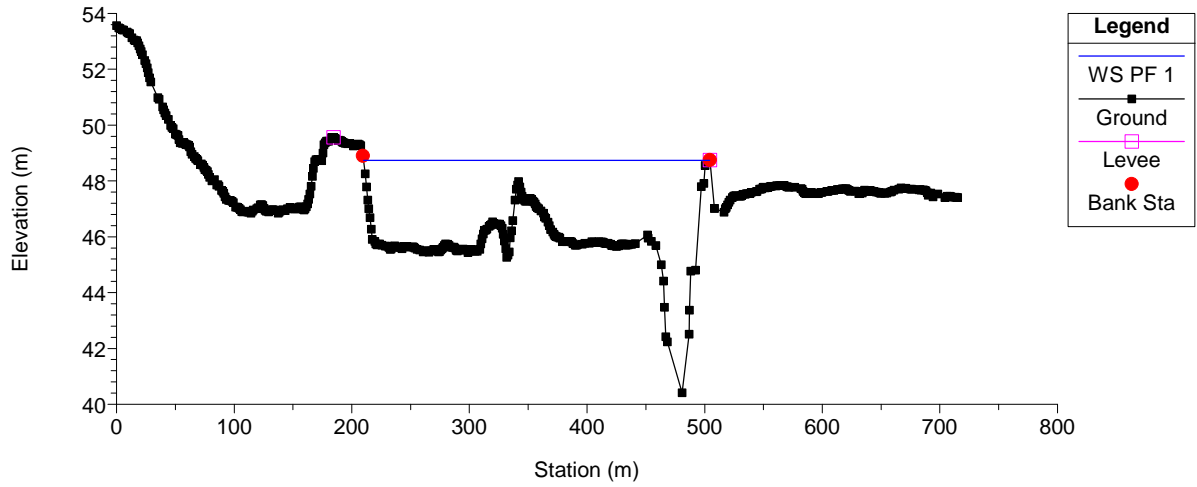
3 PLAN 04 BASSA OFFICIOSITÀ / STATO DI PROGETTO



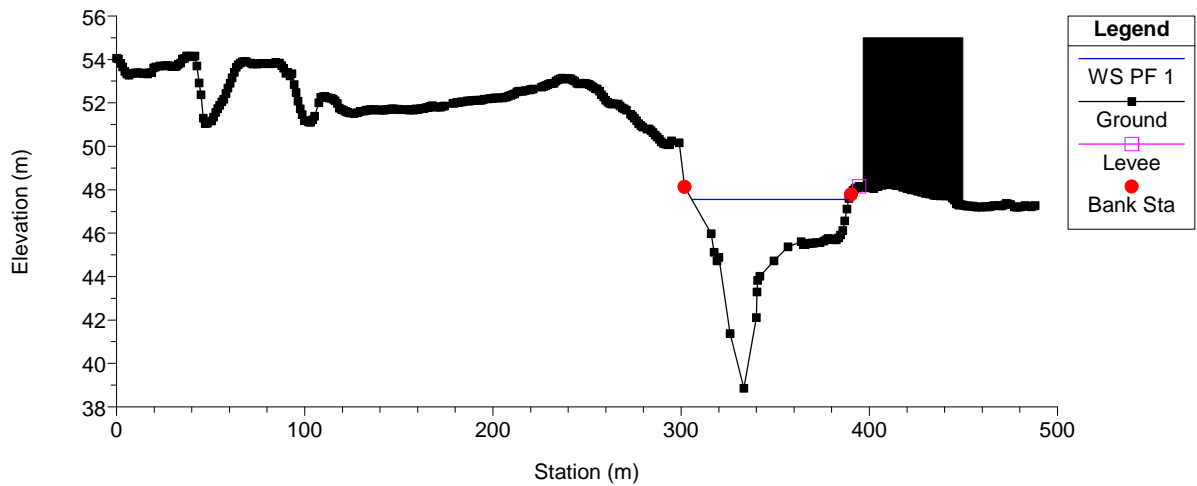
HEC-RAS Plan: PLAN\_04 River: Foglia Reach: Foglia Profile: PF 1

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
Foglia	2885.37	987.09	40.41	48.74	46.53	48.80	0.000740	1.10	900.91	294.32	0.20
Foglia	2589.61	987.09	38.86	47.55	46.84	48.32	0.006509	3.88	254.68	83.44	0.71
Foglia	2350	987.09	40.56	47.28	43.91	47.50	0.001302	2.10	470.09	85.03	0.29
Foglia	2345	Inl Struct									
Foglia	2340	987.09	40.78	47.10	43.85	47.34	0.001381	2.15	460.03	84.60	0.29
Foglia	2330	987.09	40.78	47.08	43.85	47.32	0.001399	2.16	458.01	84.56	0.30
Foglia	2328	Bridge									
Foglia	2326.71	987.09	39.14	46.40	43.31	46.65	0.001311	2.22	445.57	81.71	0.30
Foglia	2282.9	987.09	39.23	45.89	44.62	46.52	0.004164	3.51	282.85	89.18	0.60
Foglia	2120.29	987.09	37.20	44.99	44.20	45.69	0.006309	3.69	268.12	89.81	0.67
Foglia	2067.33	987.09	37.23	45.29	43.94	45.39	0.001152	1.37	720.82	279.71	0.27
Foglia	1858.19	987.09	38.42	44.77	43.63	44.95	0.004795	1.84	541.11	261.66	0.39
Foglia	1743.09	987.09	36.41	44.38	42.66	44.48	0.003240	1.40	704.08	331.46	0.31
Foglia	1587.51	987.09	37.02	44.11	41.49	44.18	0.001210	1.20	823.03	246.07	0.21
Foglia	1415.04	987.09	36.50	43.78	41.86	43.92	0.001906	1.64	603.03	205.98	0.31
Foglia	1242.69	987.09	35.47	43.49	41.67	43.59	0.001749	1.39	711.26	304.74	0.28
Foglia	1000.25	987.09	35.79	43.06	40.79	43.16	0.001802	1.42	694.14	305.12	0.30
Foglia	768.43	987.09	35.70	42.51	40.94	42.70	0.002145	1.89	522.88	175.00	0.35
Foglia	622.27	987.09	35.39	42.28	40.08	42.37	0.001966	1.32	760.34	294.06	0.24
Foglia	459.85	987.09	34.62	42.16	40.04	42.20	0.000549	0.82	1199.44	454.91	0.16
Foglia	228.89	987.09	34.13	41.78	39.49	41.93	0.003186	1.74	568.20	157.32	0.29
Foglia	29.76	987.09	33.85	41.10	39.02	41.31	0.003004	2.05	482.34	127.00	0.34

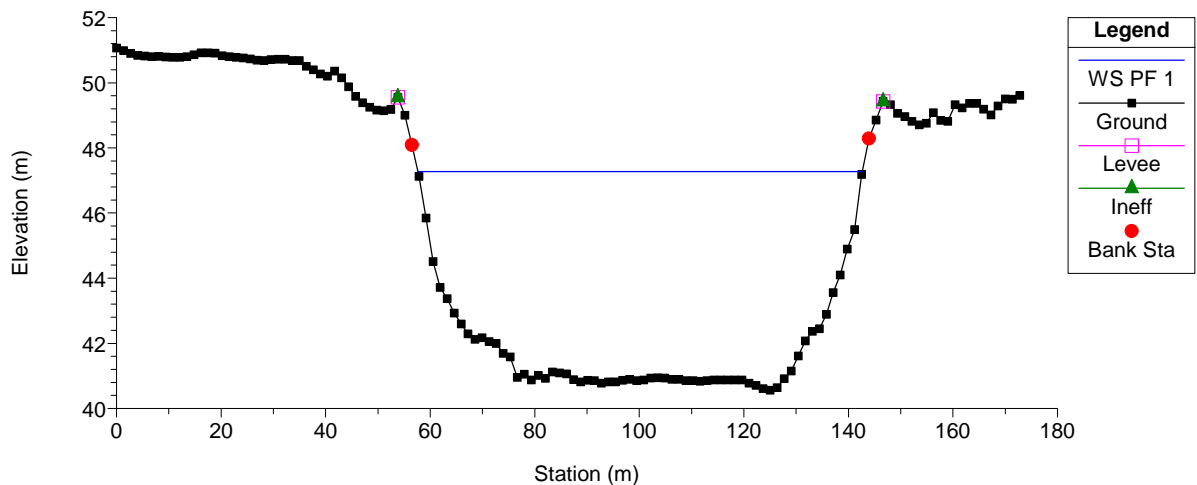
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2885.37 Sezione Regione 01086



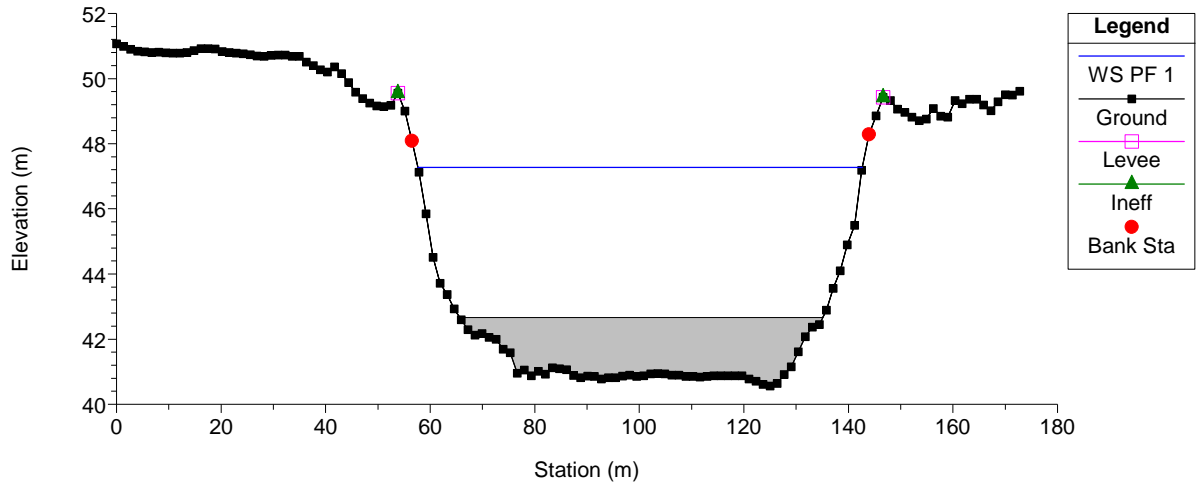
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2589.61 Sezione Regione 01085



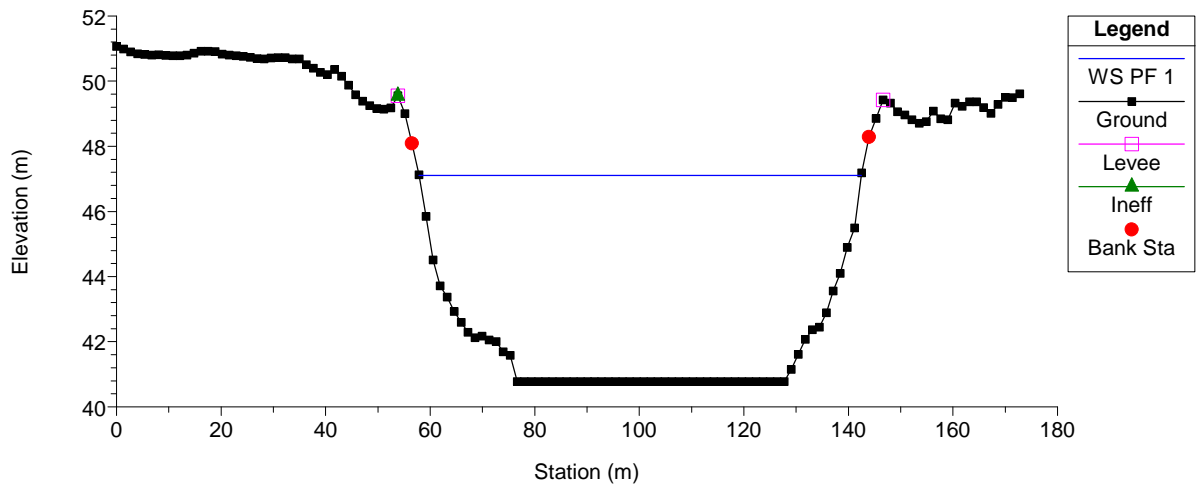
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2350 Sezione DTM 01084/1\_monteBriglia



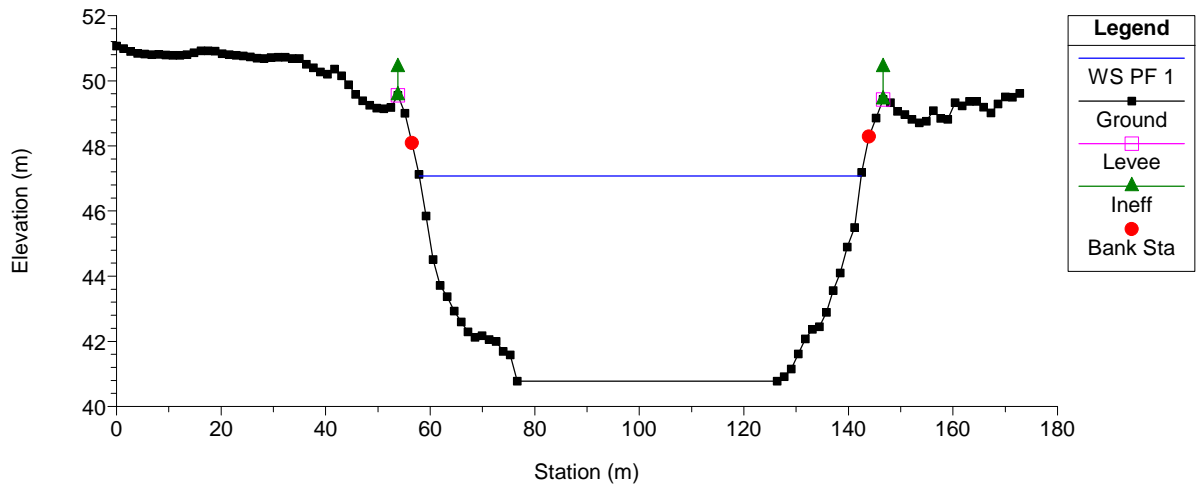
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2345 IS Briglia



Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2340 Sezione DTM 01084/1



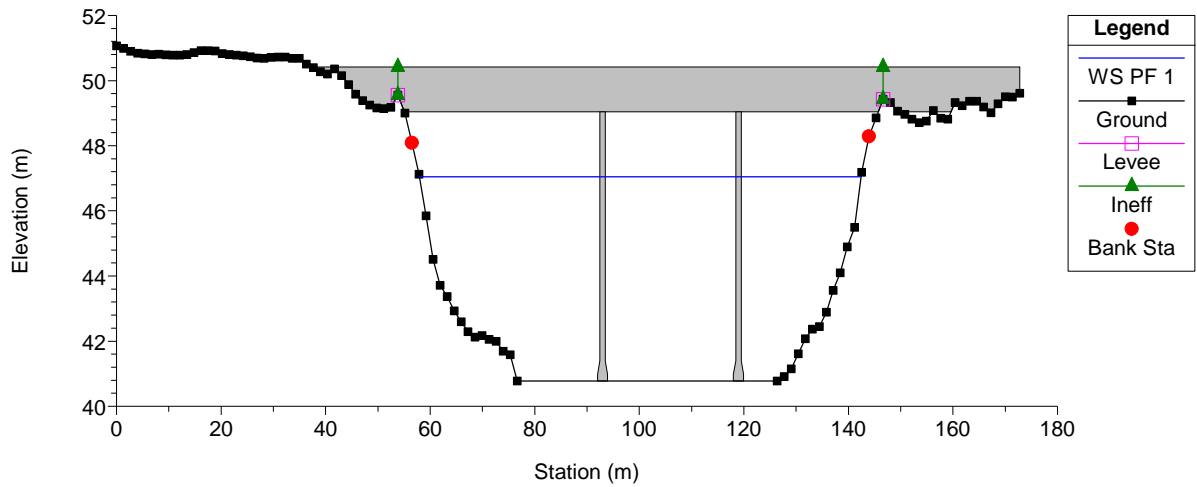
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2330 Sezione DTM 01084/1



Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

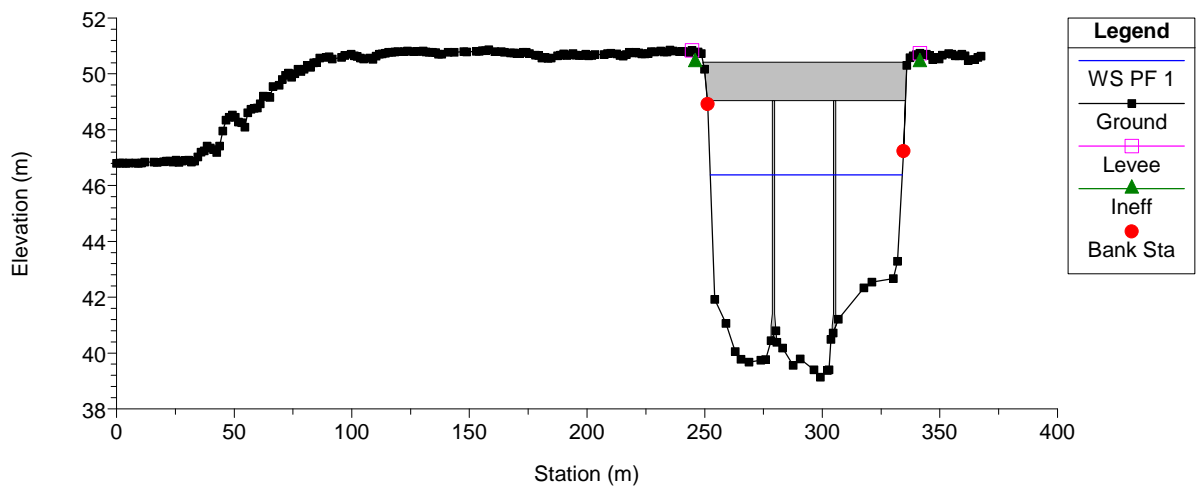
River = Foglia Reach = Foglia RS = 2328 BR Ponte



Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

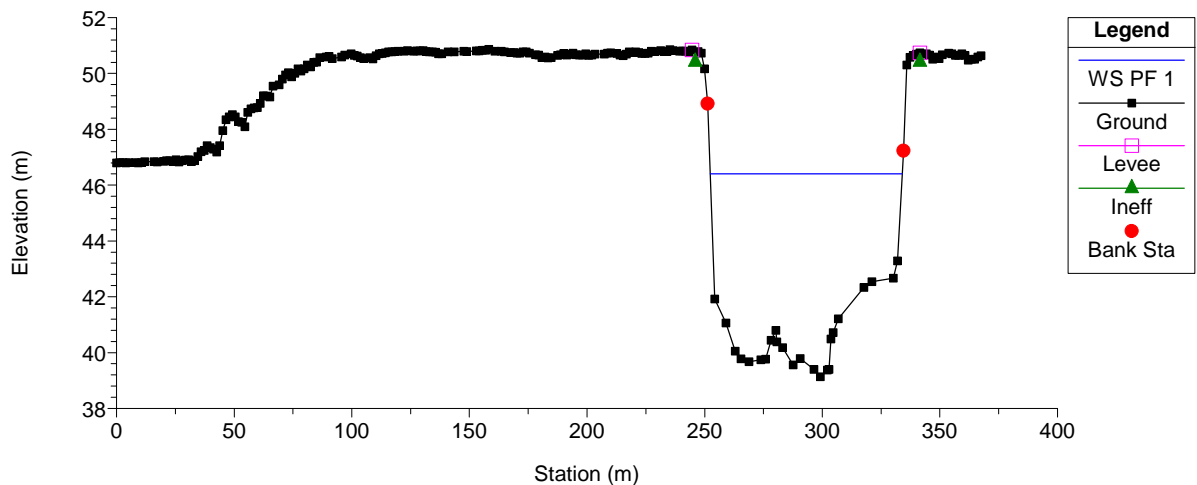
River = Foglia Reach = Foglia RS = 2328 BR Ponte



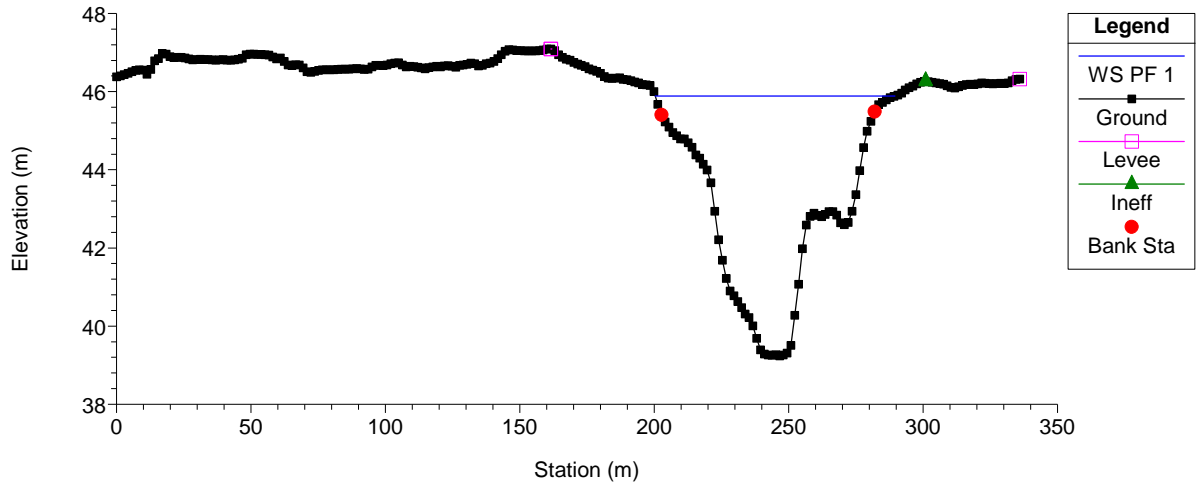
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

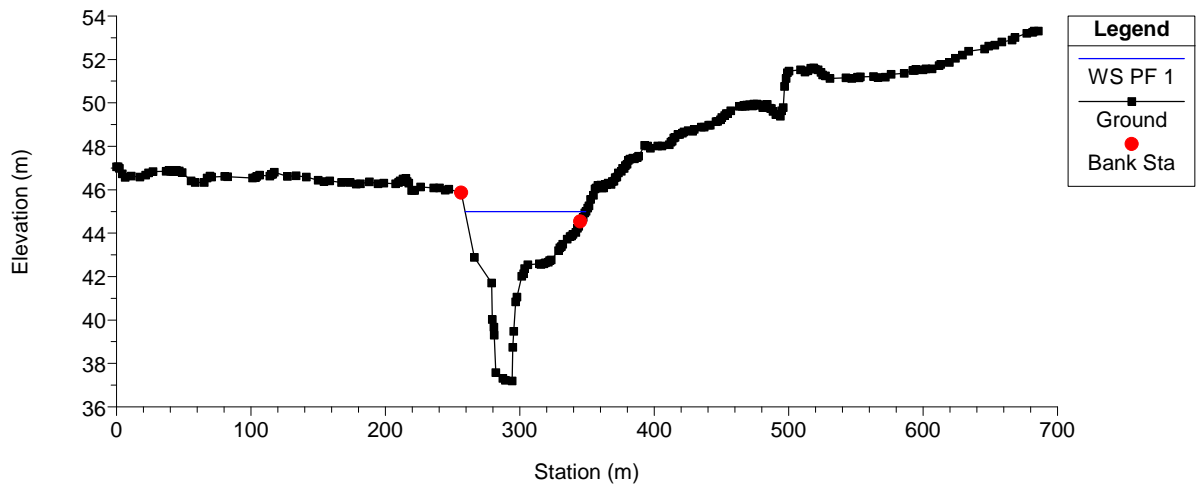
River = Foglia Reach = Foglia RS = 2326.71 Sezione Regione 01084



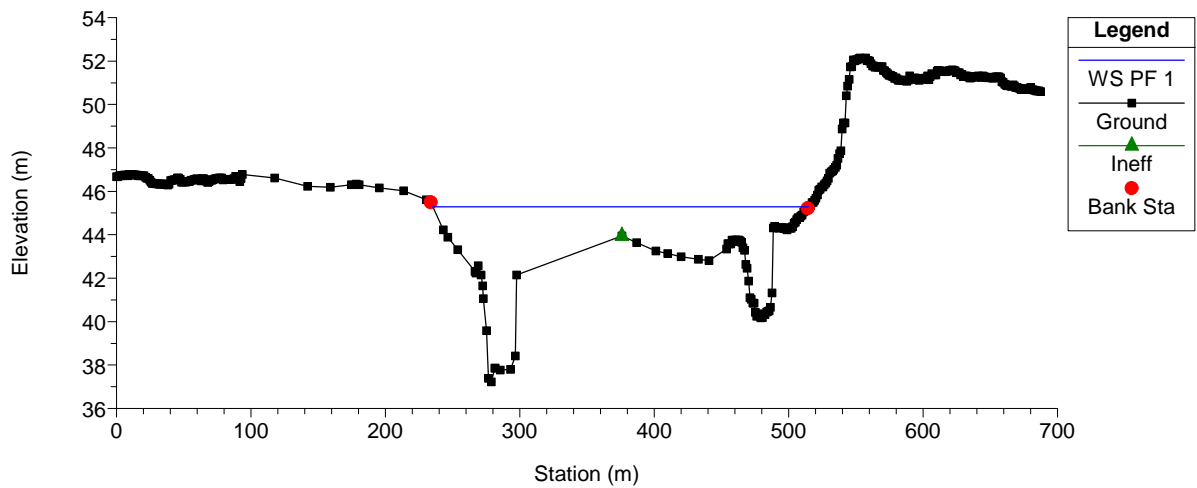
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2282.9 Sezione DTM 01083/5



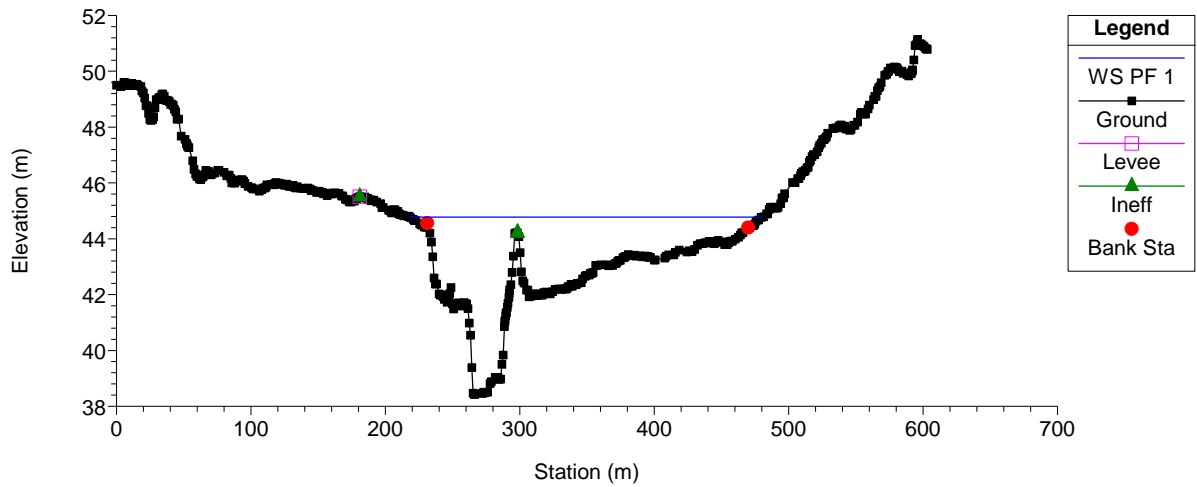
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2120.29 Sezione Regione 01083



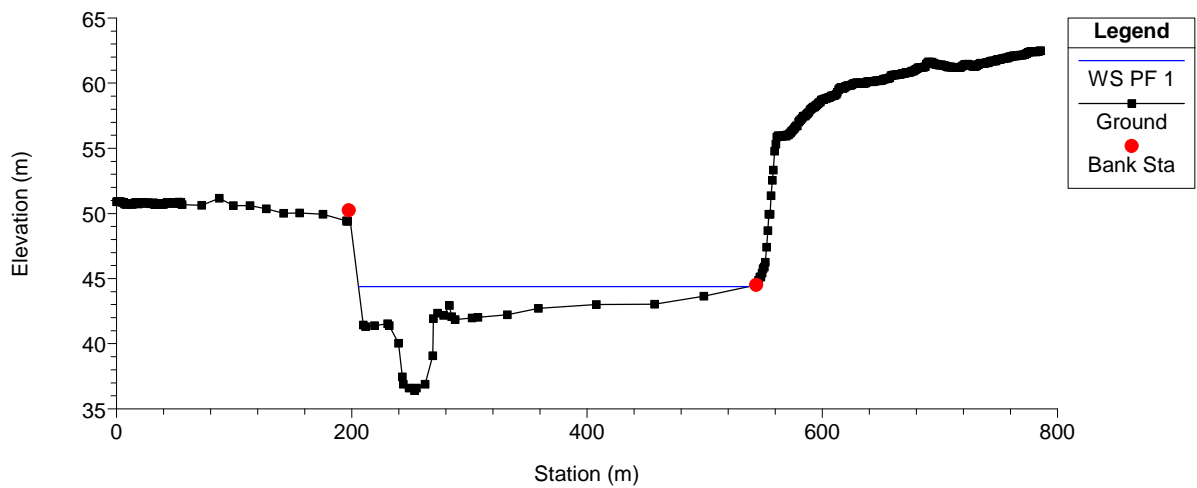
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2067.33 Sezione Regione 01082



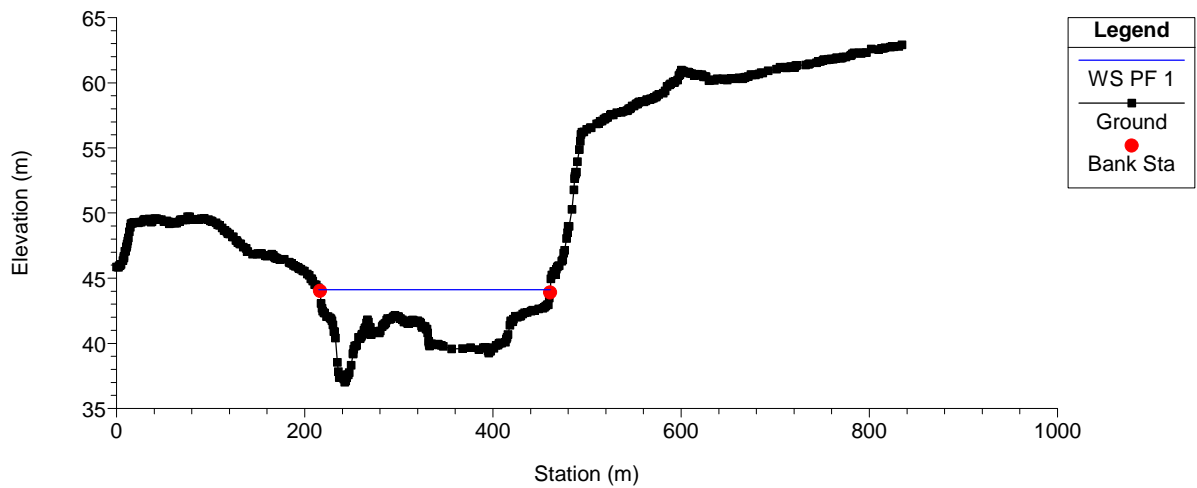
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 1858.19 Sezione DTM 01081/5



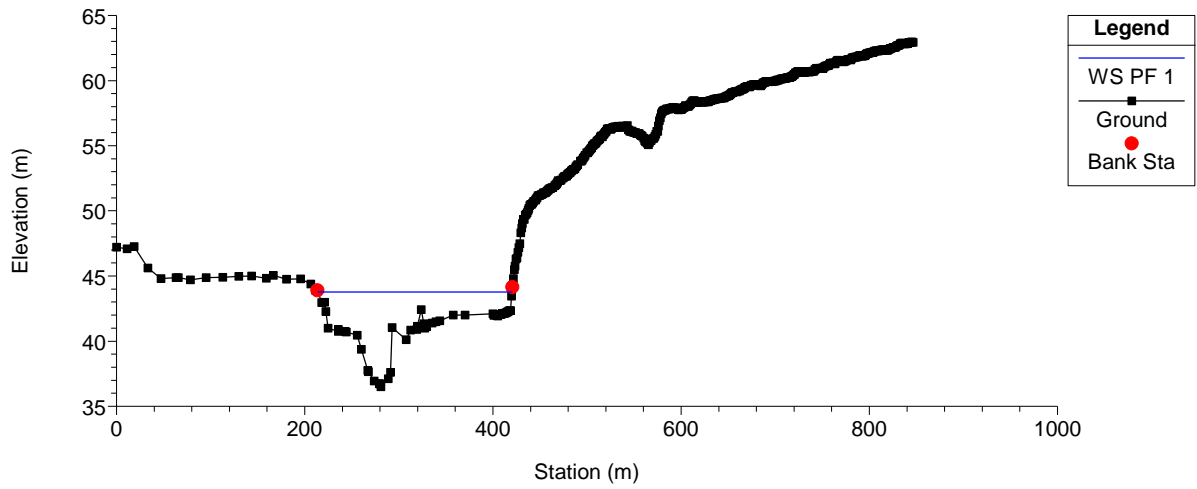
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 1743.09 Sezione Regione 01081



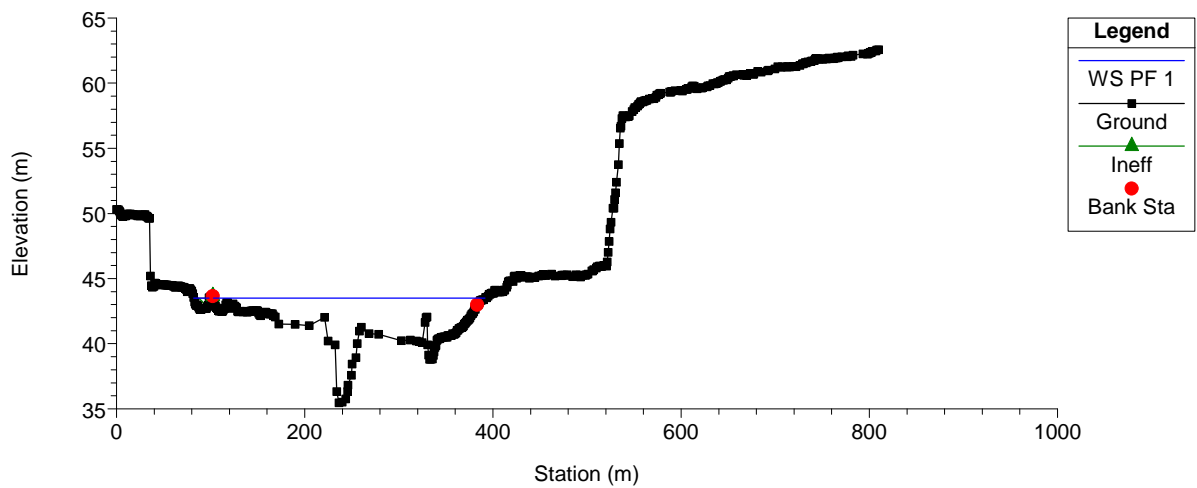
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 1587.51 Sezione DTM 01080/5



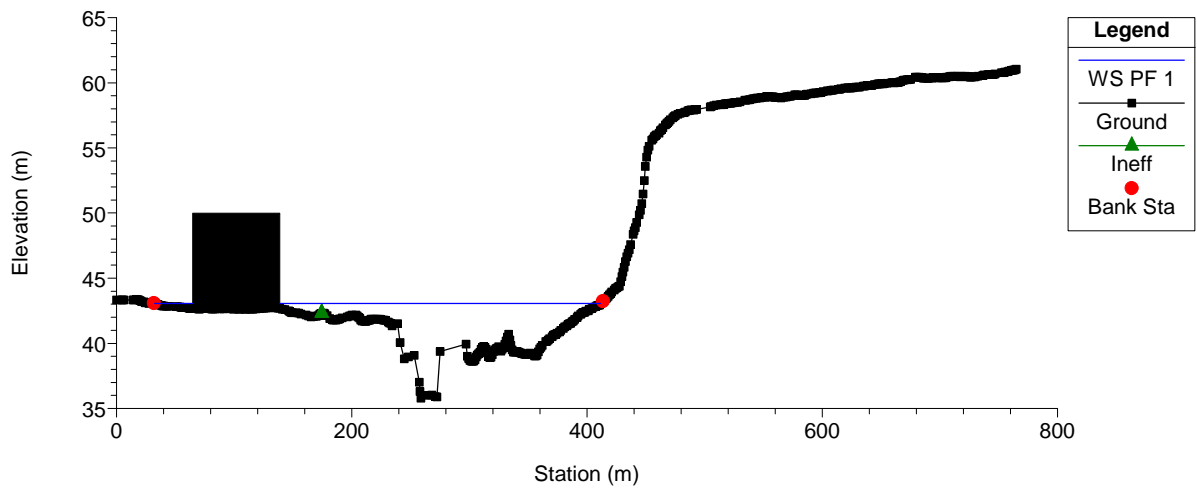
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 1415.04 Sezione Regione 01080



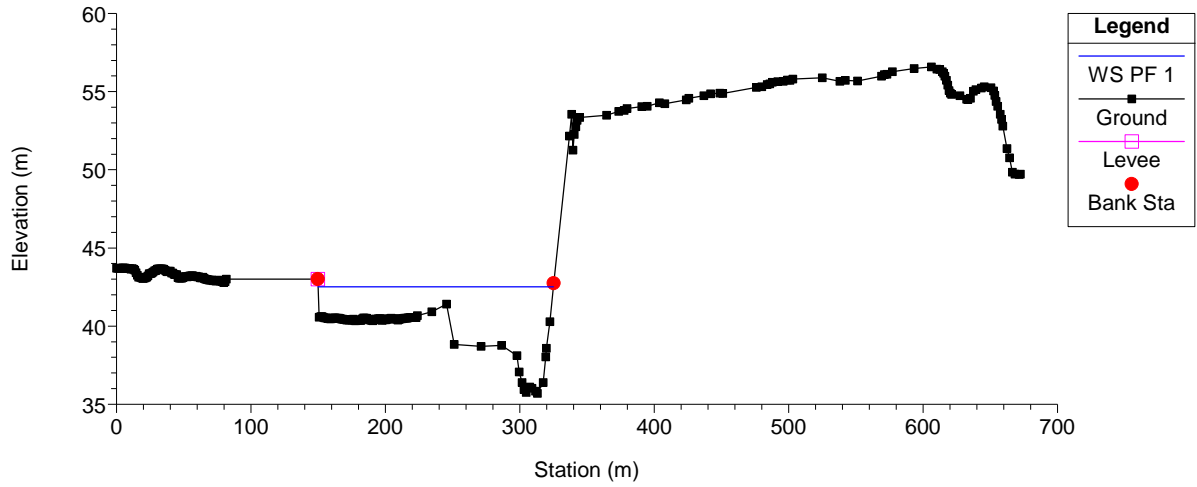
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 1242.69 Sezione Regione 01079



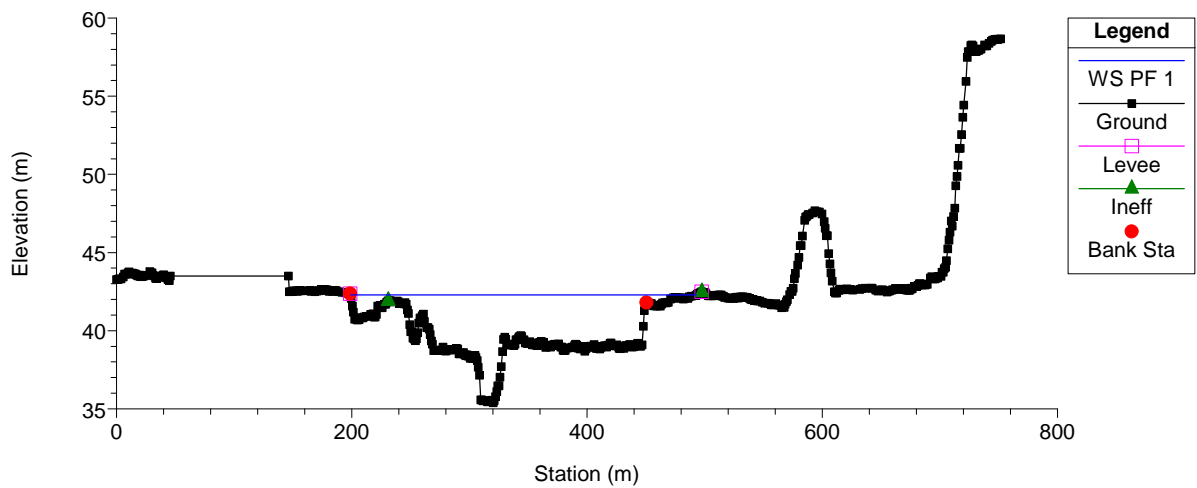
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 1000.25 Sezione Regione 01078



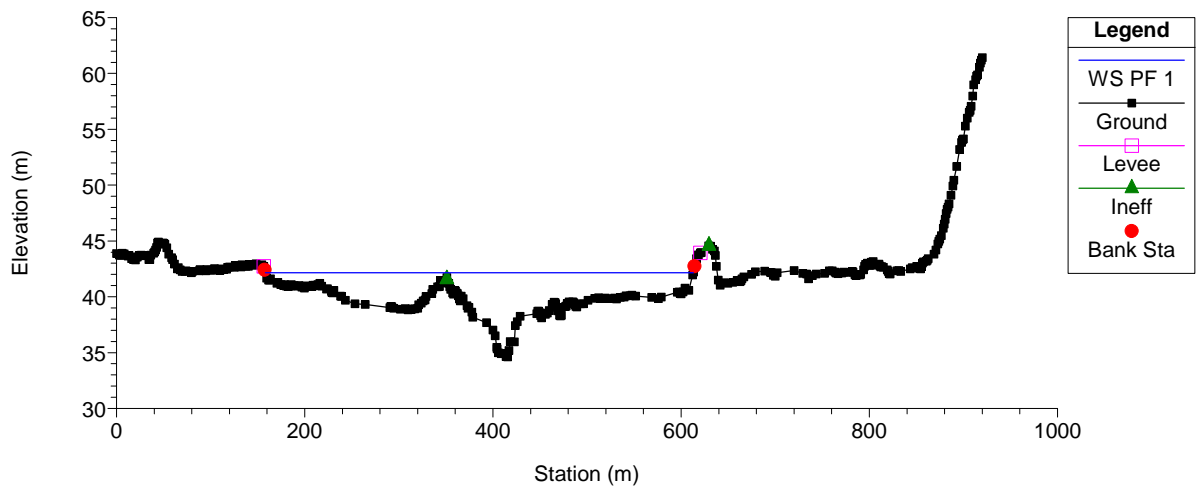
Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 768.43 Sezione Regione 01077



Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 622.27 Sezione DTM 01076/5

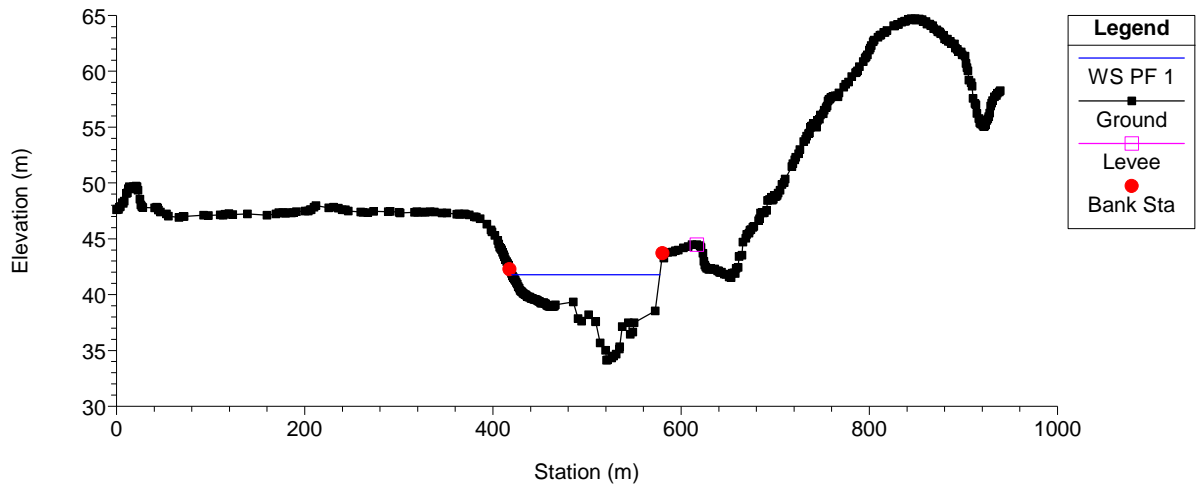


Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 459.85 Sezione Regione 01076

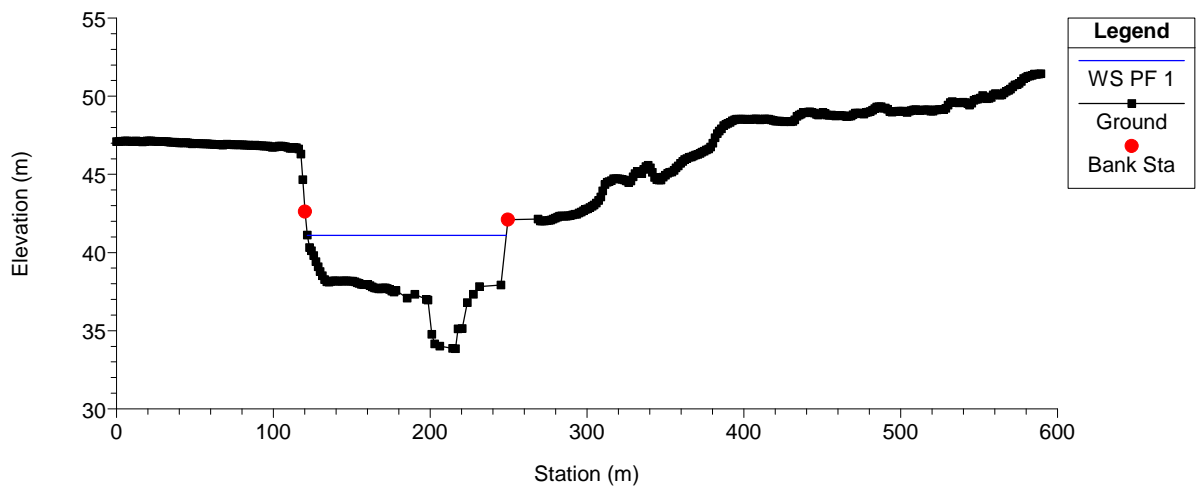




Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
River = Foglia Reach = Foglia RS = 228.89 Sezione Regione 01075



Mod\_Vallefoglia\_06\_08\_2018 Plan: Plan 04 13/09/2018  
Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
River = Foglia Reach = Foglia RS = 29.76 Sezione Regione 01074

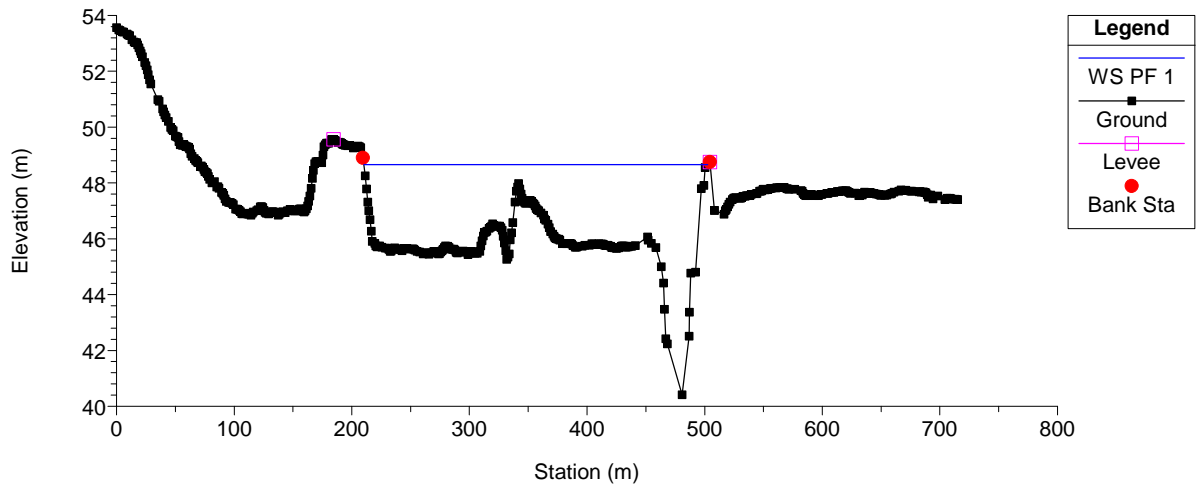


4 PLAN 05 ALTA OFFICIOSITÀ / STATO DI PROGETTO

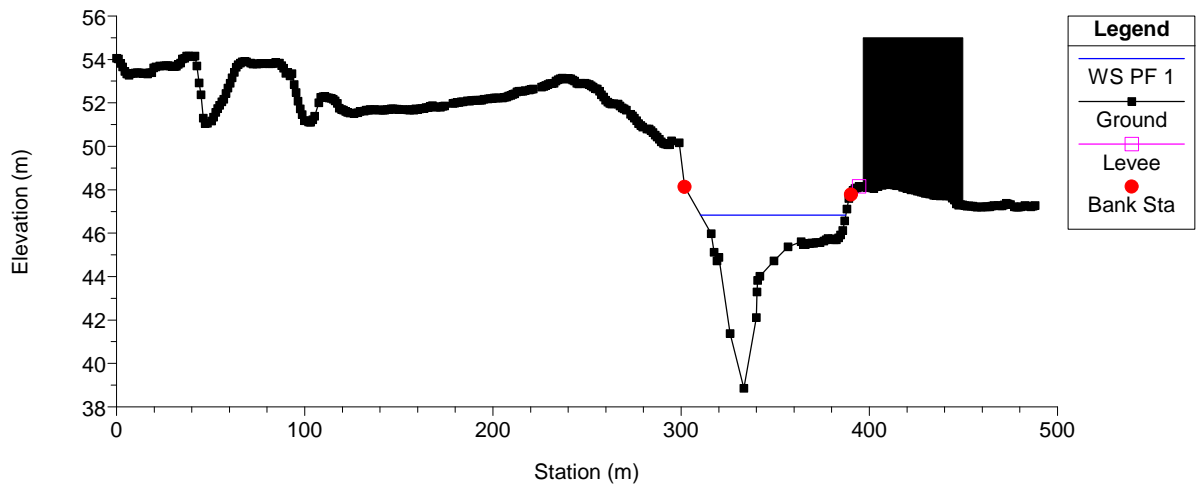
HEC-RAS Plan: Plan 05 River: Foglia Reach: Foglia Profile: PF 1

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
Foglia	2885.37	987.09	40.41	48.65	46.61	48.72	0.000695	1.19	875.46	292.23	0.21
Foglia	2589.61	987.09	38.86	46.84	46.84	48.11	0.006983	5.01	197.21	77.21	1.00
Foglia	2350	987.09	40.56	47.01	43.91	47.26	0.000784	2.21	447.26	84.43	0.31
Foglia	2345	Inl Struct									
Foglia	2340	987.09	40.78	46.79	43.85	47.05	0.000858	2.28	433.70	84.02	0.32
Foglia	2330	987.09	40.78	46.78	43.85	47.04	0.000866	2.28	432.32	84.00	0.32
Foglia	2328	Bridge									
Foglia	2326.71	987.09	39.14	46.09	43.31	46.37	0.001367	2.35	420.49	81.38	0.33
Foglia	2282.9	987.09	39.23	45.34	44.62	46.22	0.003802	4.16	237.39	77.97	0.76
Foglia	2120.29	987.09	37.20	44.64	44.20	45.52	0.004846	4.16	237.48	85.87	0.79
Foglia	2067.33	987.09	37.23	45.08	43.94	45.20	0.000965	1.49	662.69	274.83	0.31
Foglia	1858.19	987.09	38.42	44.55	43.63	44.77	0.006436	2.04	484.82	249.53	0.46
Foglia	1743.09	987.09	36.41	43.99	42.66	44.14	0.004536	1.71	578.74	311.11	0.40
Foglia	1587.51	987.09	37.02	43.63	41.49	43.73	0.001622	1.40	705.28	243.49	0.26
Foglia	1415.04	987.09	36.50	43.25	41.86	43.46	0.001408	1.99	495.36	202.91	0.41
Foglia	1242.69	987.09	35.47	43.04	41.67	43.19	0.001540	1.69	583.22	291.40	0.37
Foglia	1000.25	987.09	35.79	42.70	40.79	42.84	0.001273	1.67	591.42	270.54	0.36
Foglia	768.43	987.09	35.70	41.94	40.94	42.22	0.008442	2.33	422.80	174.11	0.48
Foglia	622.27	987.09	35.39	41.50	40.08	41.67	0.001950	1.82	543.31	224.94	0.35
Foglia	459.85	987.09	34.62	41.24	40.04	41.39	0.001412	1.74	566.52	428.85	0.37
Foglia	228.89	987.09	34.13	40.62	39.49	40.95	0.002572	2.52	391.53	148.13	0.50
Foglia	29.76	987.09	33.85	39.95	39.02	40.38	0.003001	2.91	338.69	122.31	0.56

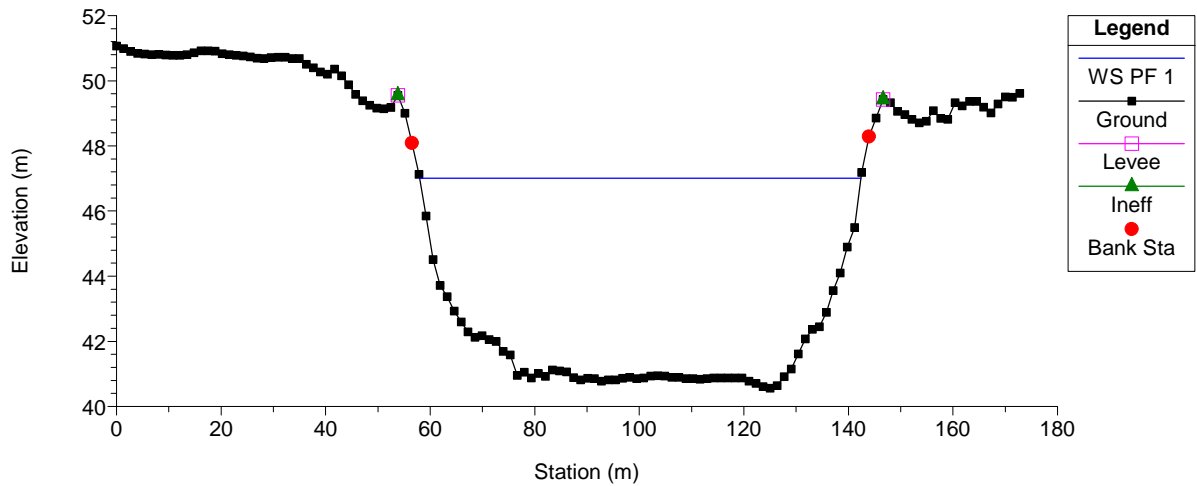
Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2885.37 Sezione Regione 01086



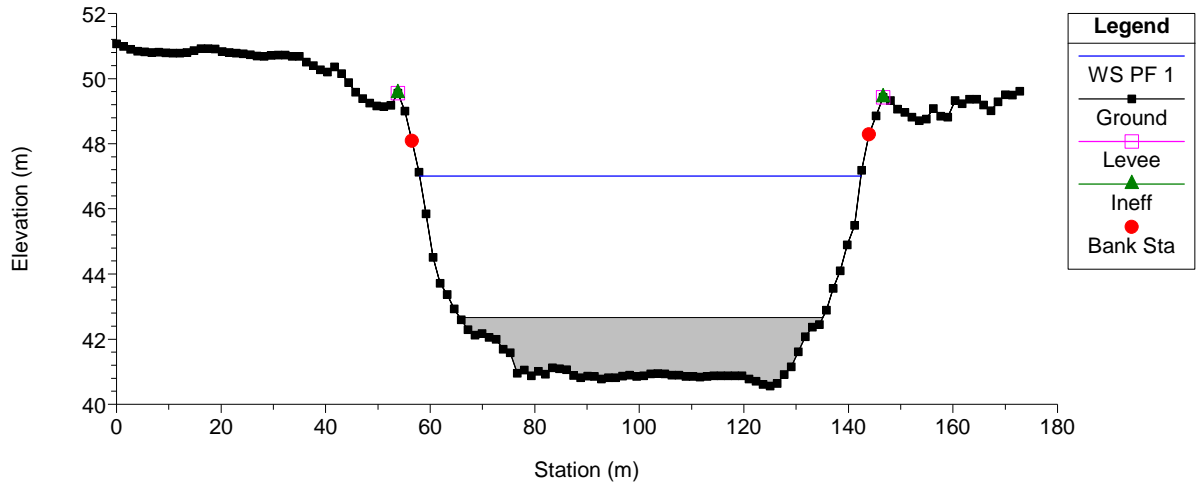
Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2589.61 Sezione Regione 01085



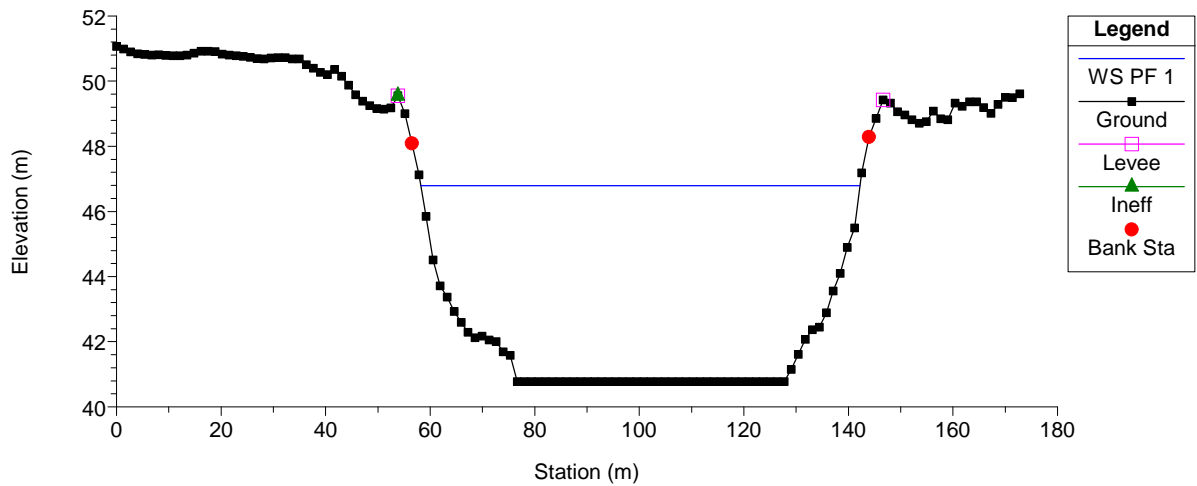
Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2350 Sezione DTM 01084/1\_monteBriglia



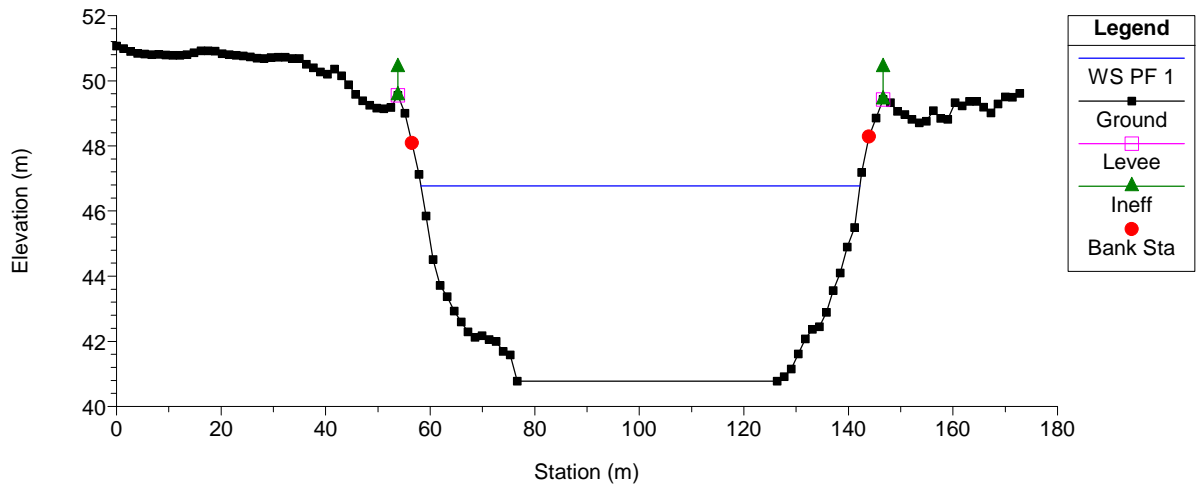
Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2345 IS Briglia



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2340 Sezione DTM 01084/1



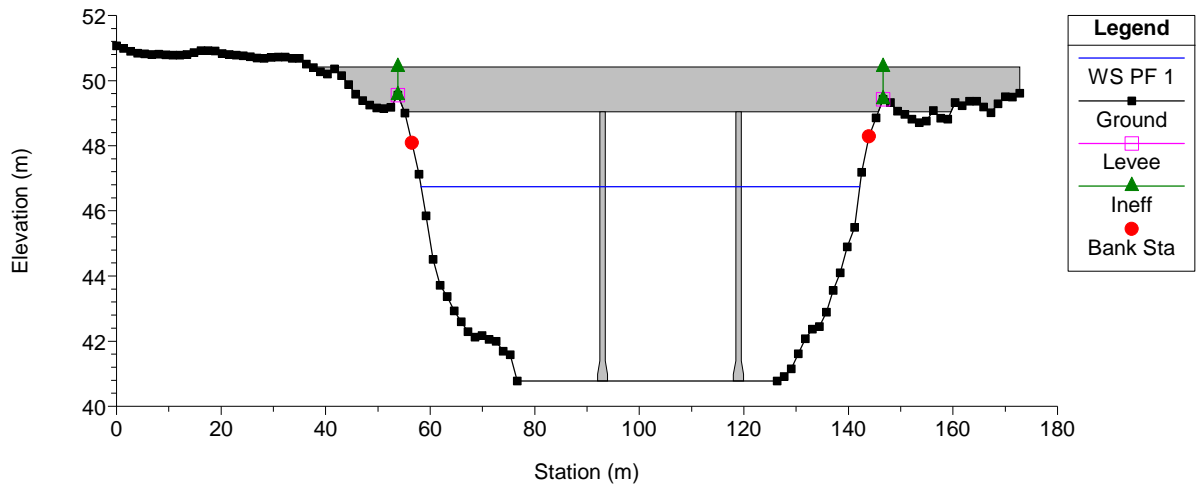
Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
 Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
 River = Foglia Reach = Foglia RS = 2330 Sezione DTM 01084/1



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

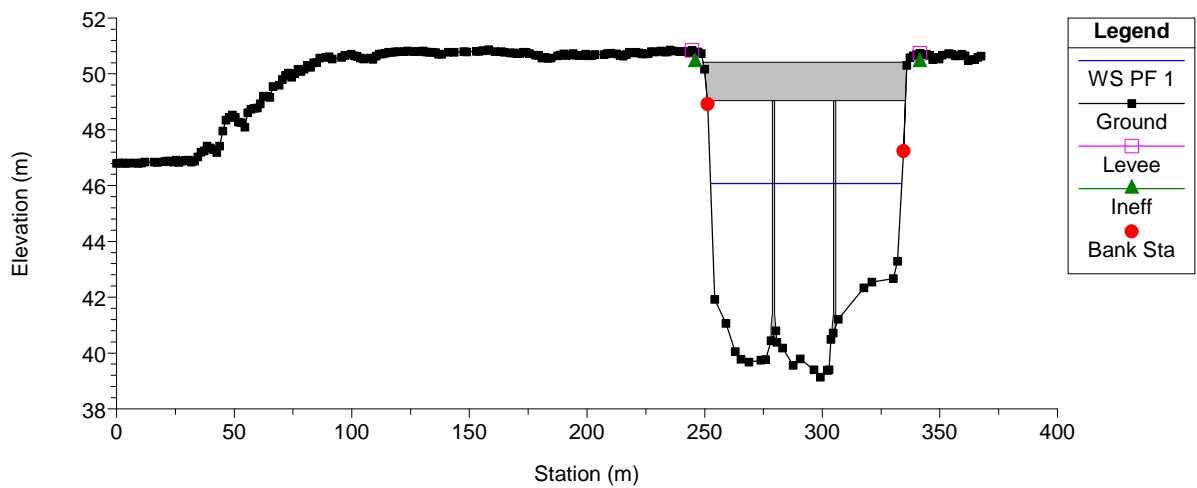
River = Foglia Reach = Foglia RS = 2328 BR Ponte



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

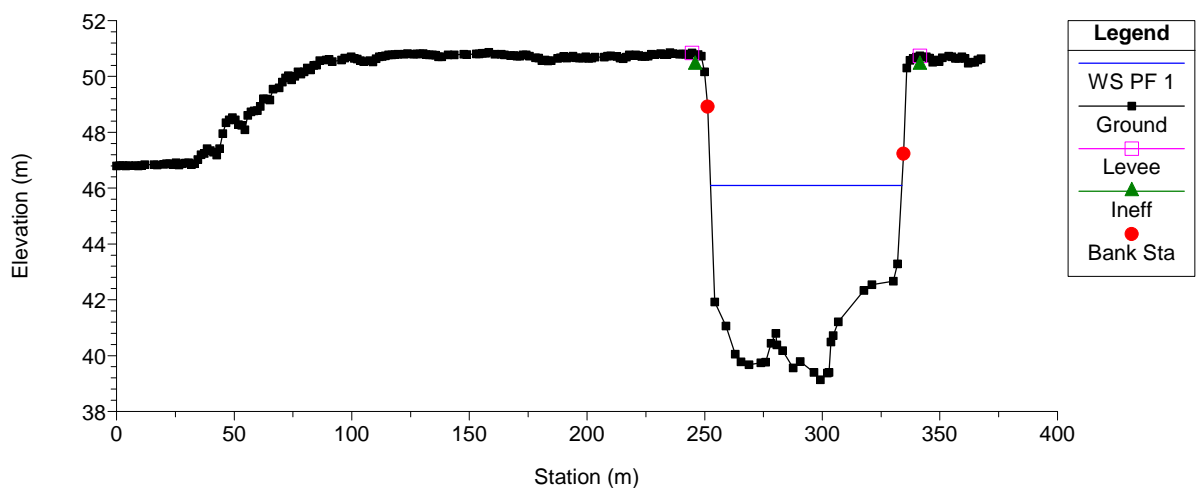
River = Foglia Reach = Foglia RS = 2328 BR Ponte



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

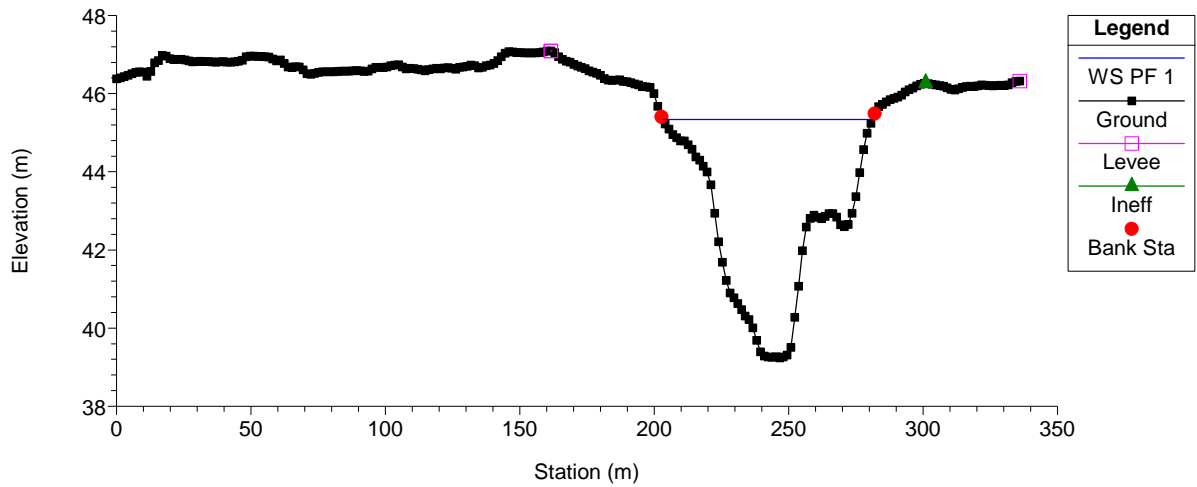
River = Foglia Reach = Foglia RS = 2326.71 Sezione Regione 01084



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

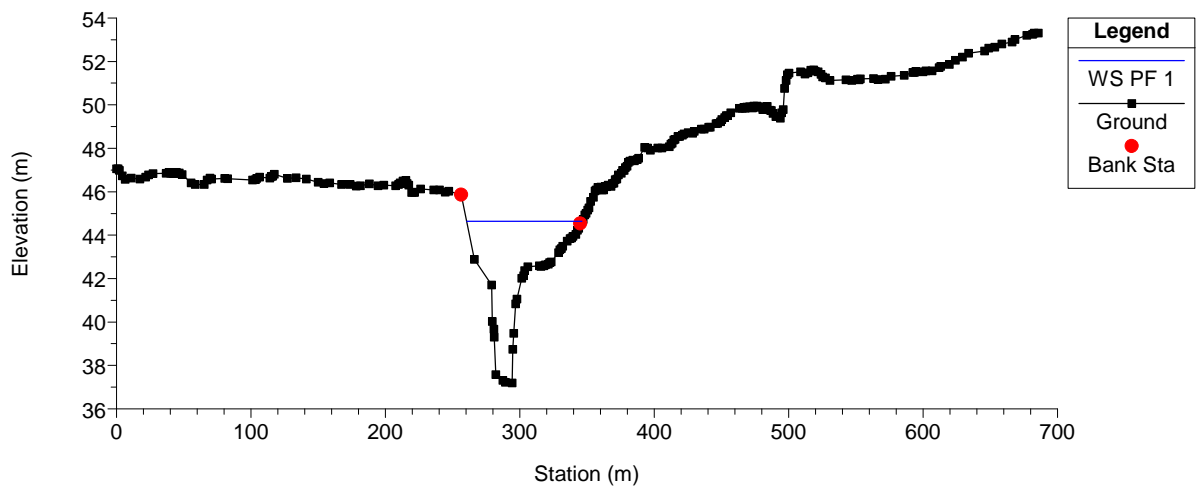
River = Foglia Reach = Foglia RS = 2282.9 Sezione DTM 01083/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

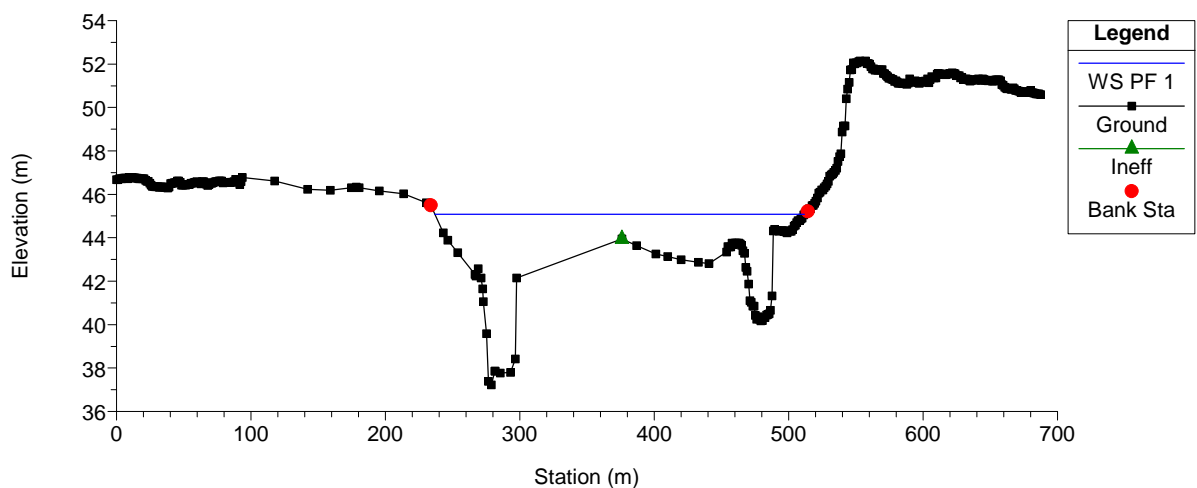
River = Foglia Reach = Foglia RS = 2120.29 Sezione Regione 01083



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

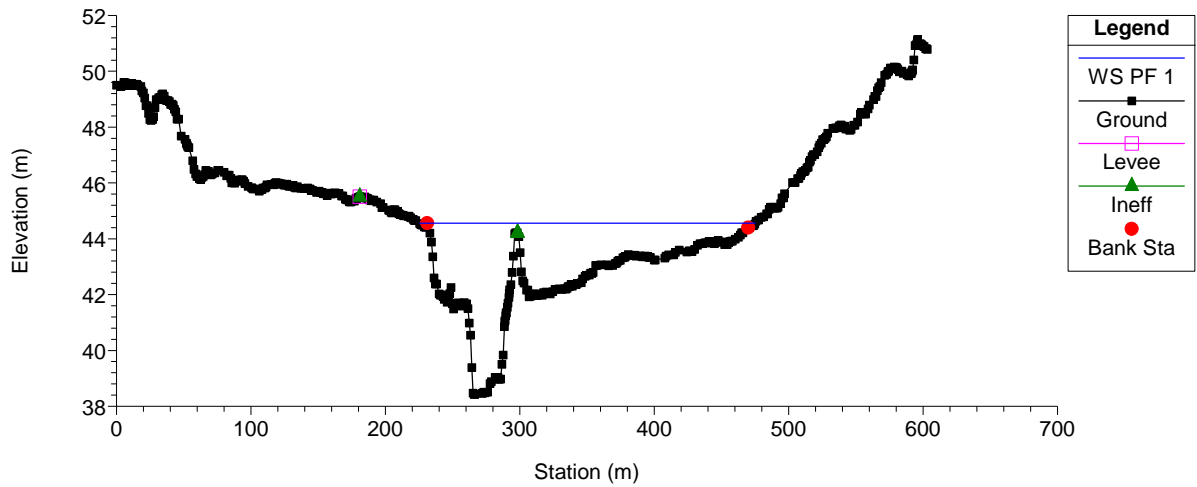
River = Foglia Reach = Foglia RS = 2067.33 Sezione Regione 01082



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

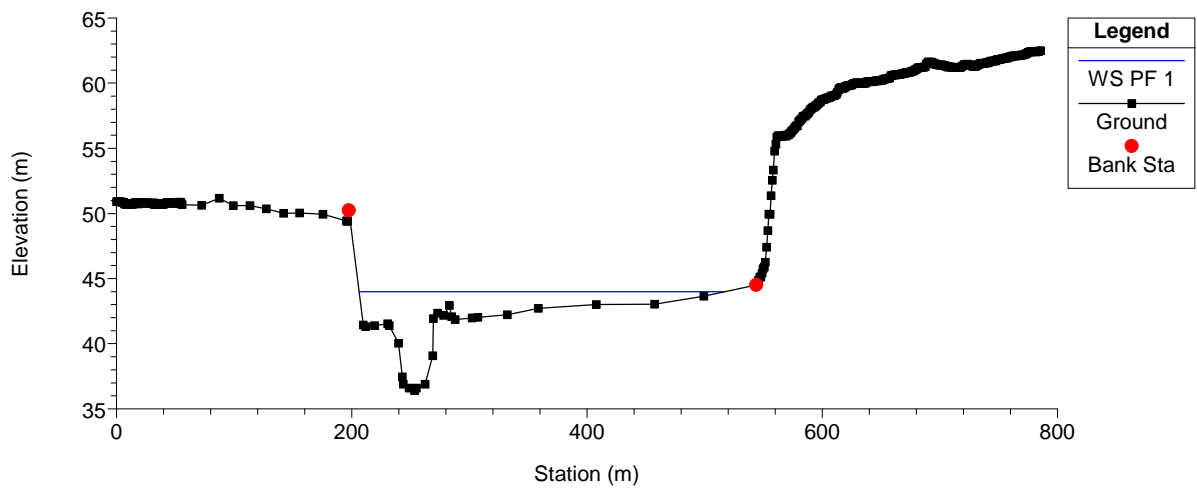
River = Foglia Reach = Foglia RS = 1858.19 Sezione DTM 01081/5



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

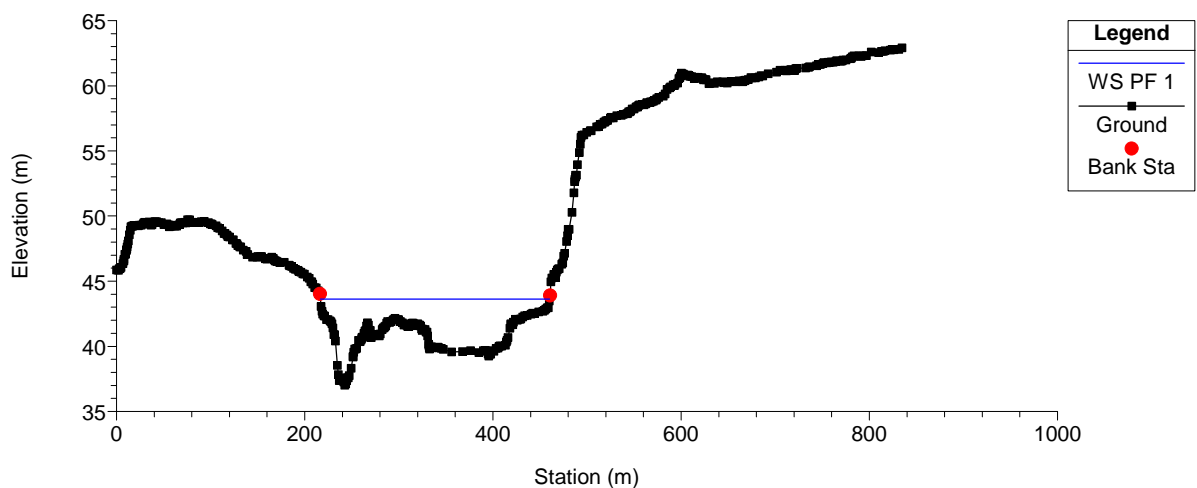
River = Foglia Reach = Foglia RS = 1743.09 Sezione Regione 01081



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

River = Foglia Reach = Foglia RS = 1587.51 Sezione DTM 01080/5

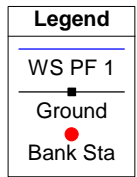
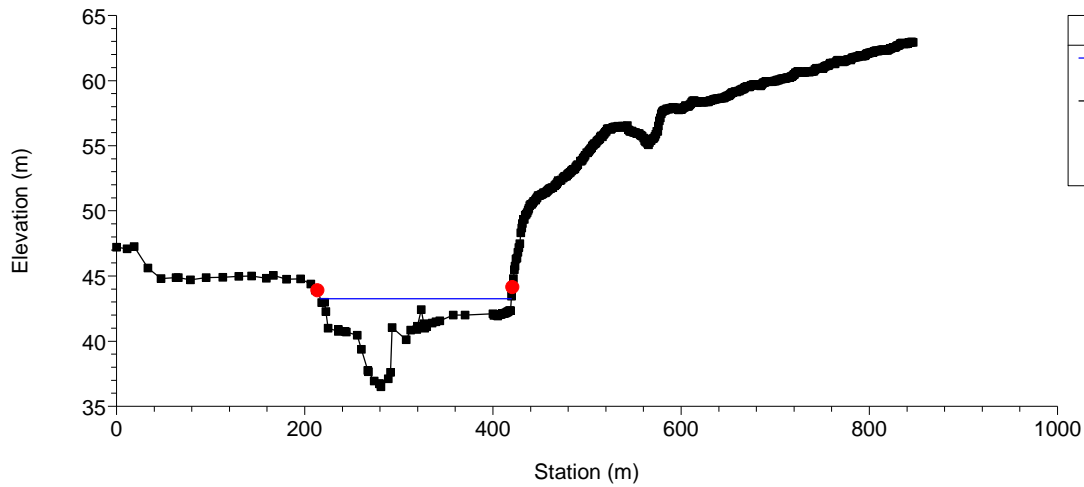




Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

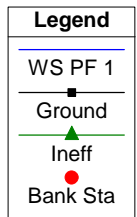
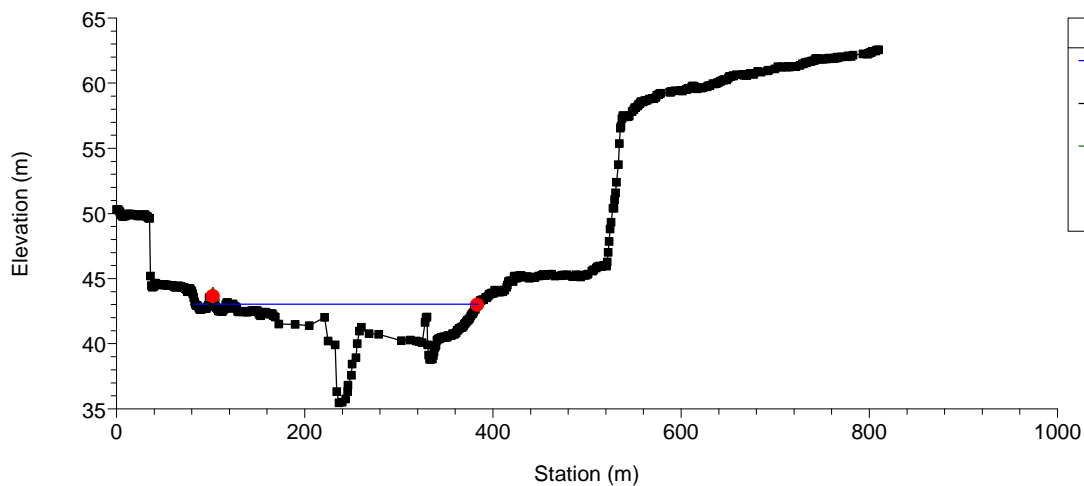
River = Foglia Reach = Foglia RS = 1415.04 Sezione Regione 01080



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

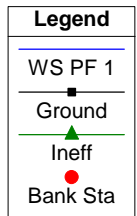
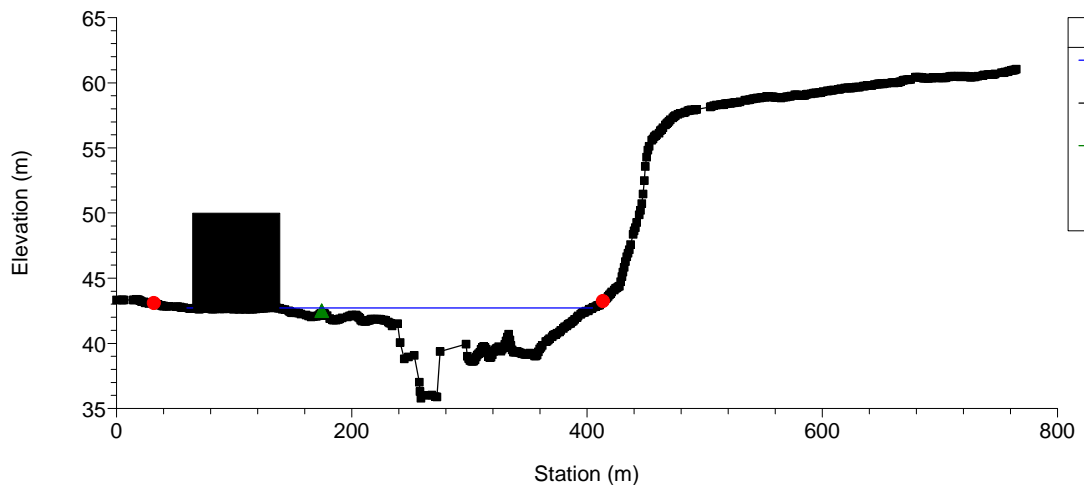
River = Foglia Reach = Foglia RS = 1242.69 Sezione Regione 01079



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

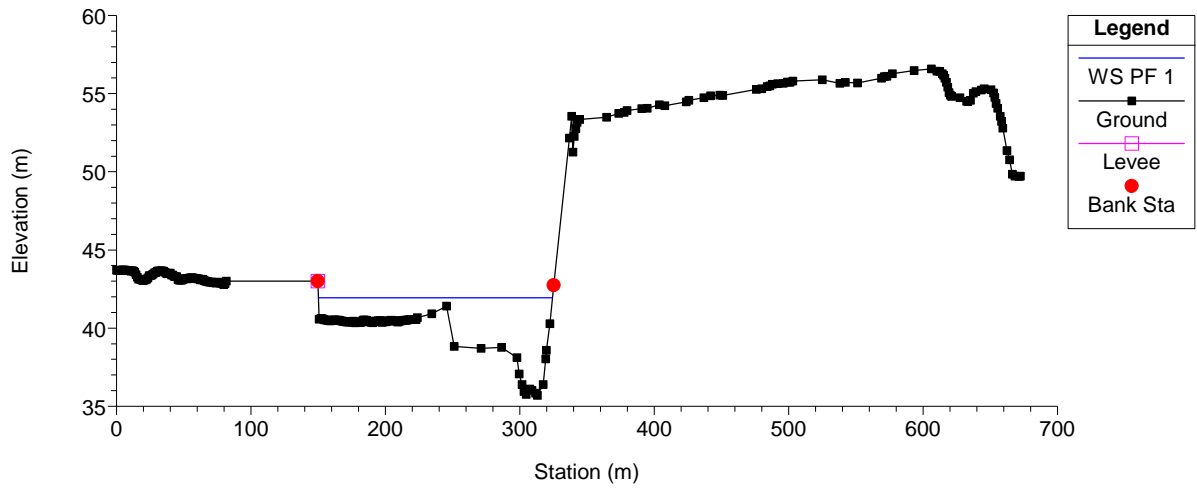
River = Foglia Reach = Foglia RS = 1000.25 Sezione Regione 01078



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

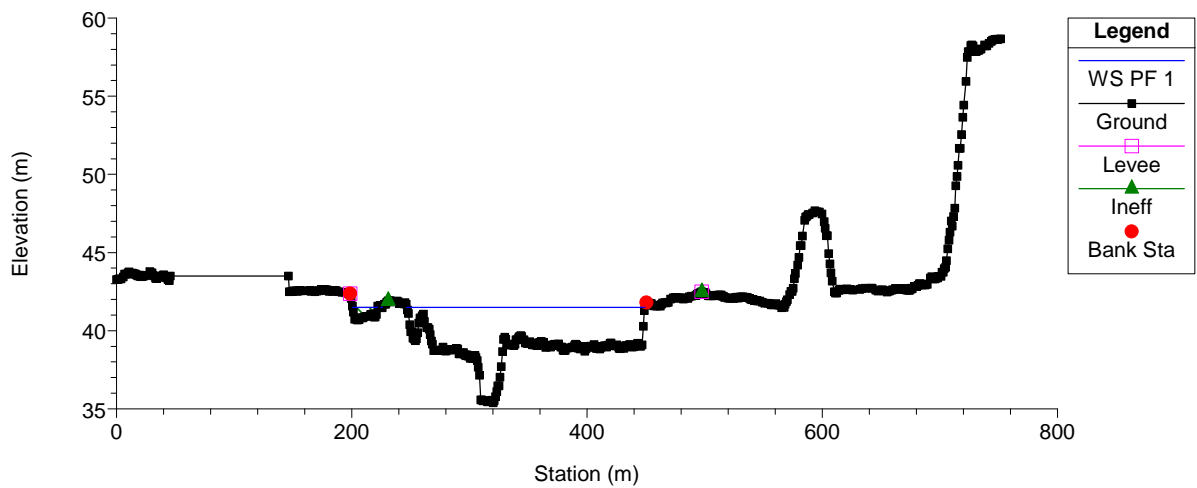
River = Foglia Reach = Foglia RS = 768.43 Sezione Regione 01077



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

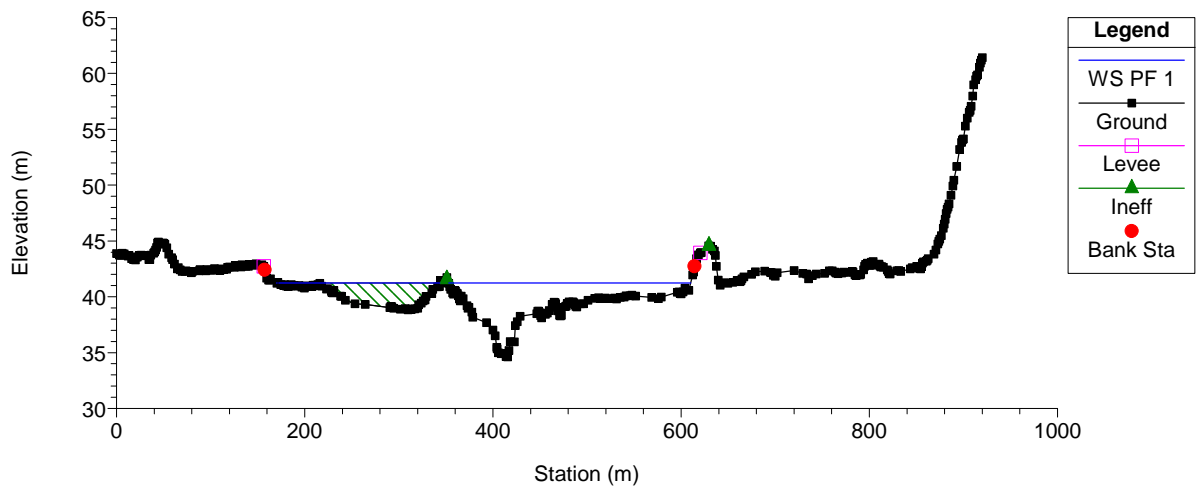
River = Foglia Reach = Foglia RS = 622.27 Sezione DTM 01076/5



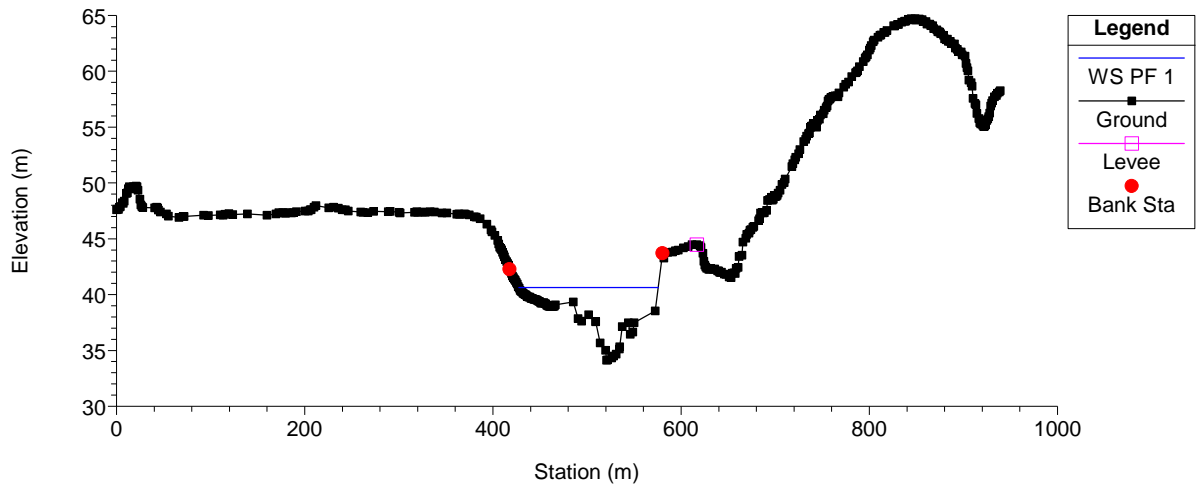
Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018

Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto

River = Foglia Reach = Foglia RS = 459.85 Sezione Regione 01076



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
River = Foglia Reach = Foglia RS = 228.89 Sezione Regione 01075



Mod\_Vallefoglia\_06\_08\_2018 Plan: 1) Plan 05 27/08/2018  
Geom: 2018\_08\_06\_Bassa\_officiosita\_Progetto  
River = Foglia Reach = Foglia RS = 29.76 Sezione Regione 01074

