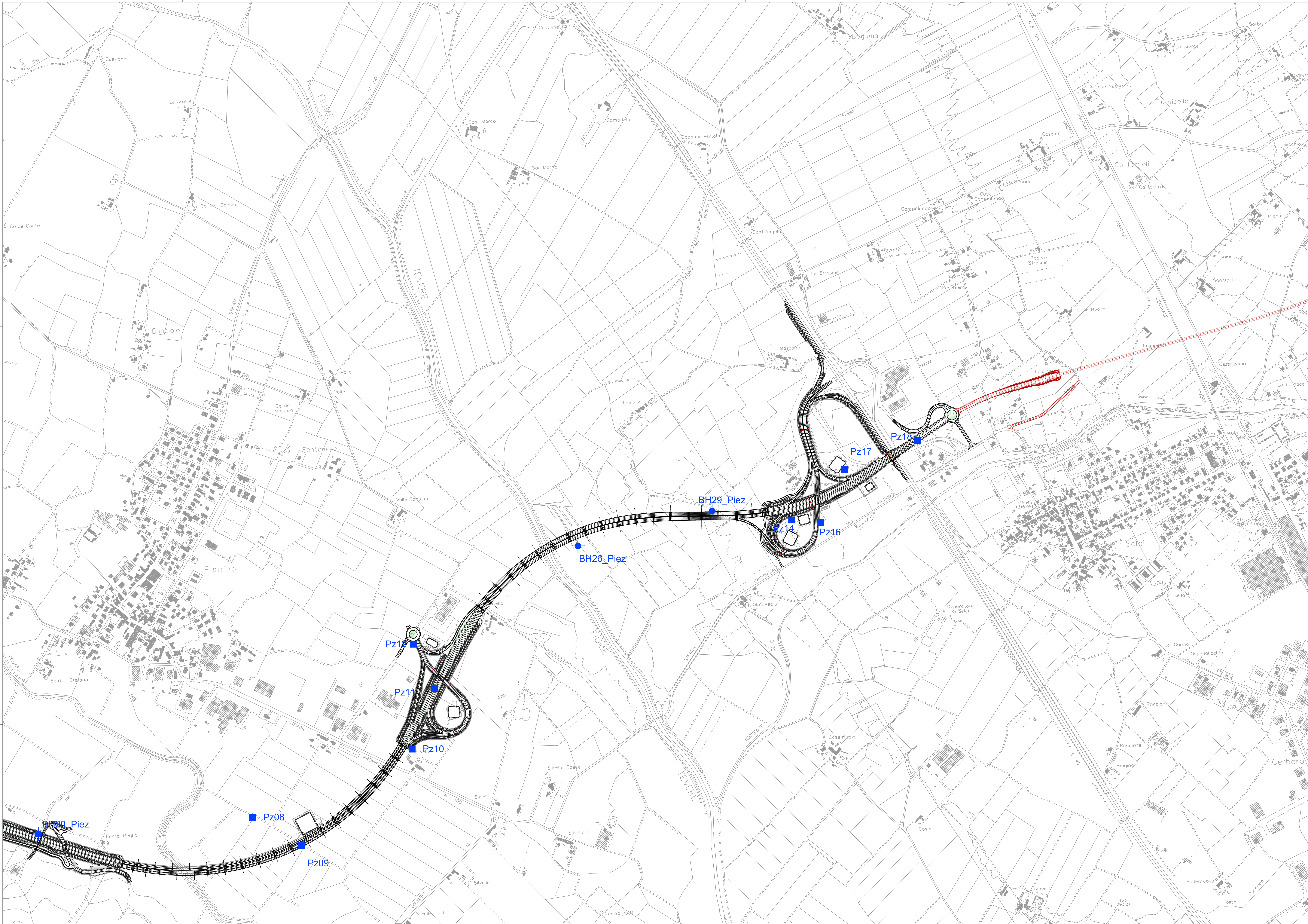

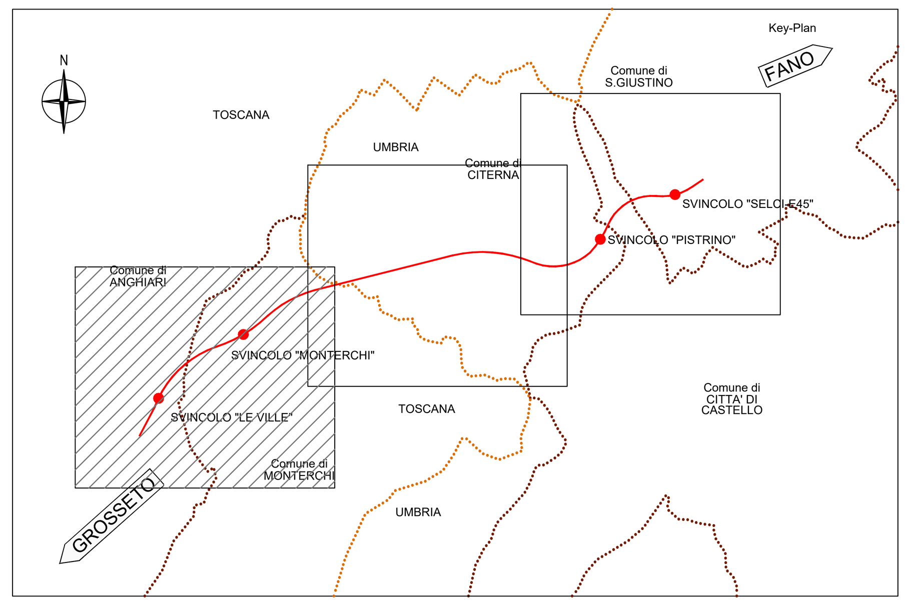

Legenda

Indagini Ambientali, Progetto Definitivo

BHn_Piez		Sondaggio geognostico attrezzato con tubo piezometrico
BHnDH		Sondaggio gegnostico attrezzato con tubo per esecuzione prove DH
Pzn		Pozzetto esplorativo

I valori evidenziati in giallo nella tabella indicano i superamenti della colonna A (allegato 5, al titolo V parte IV del decreto legislativo n.152 del 2006)

Codice Campione	Limte Colonna A	Limte Colonna B	2202771.005	2202771.006	2202771.007	2202771.008	2202775.003	2202775.004	2203139.004	2203139.005	2203139.006	2203141.005	2203141.006	2203141.007	2203141.008	2203719.004	2203719.005	2203719.006	2204161.004	2204161.005	2204161.006	2204246.004
Campione			BH29 (0-1 m)	BH29 (1-2 m)	BH29 (2-3 m)	BH29 (3-4 m)	BH20 (0-1 m)	BH20 (1-2 m)	BH17 (10-11 m)	BH17 (15,5-16 m)	BH17 (21-22 m)	BH26 (0-1 m)	BH26 (1-2 m)	BH26 (2-3 m)	BH26 (3-4 m)	BH3 (0-1 m)	BH3 (1-2 m)	BH3 (3-4 m)	BH11 (0-1 m)	BH11 (5-6 m)	BH11 (10-11 m)	BH2 (0-1 m)
Residuo a 105°C (%)			83.8	81.8	79.1	79.5	85.9	87.0	86.6	87.4	87.2	86.5	82.2	82.5	76.1	88.5	84.0	83.3	88.0	95.3	91.4	92.0
Scheletro tra 2 cm e 2 mm (%)			< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	44.5	< 1	< 1	67.3	65.1	63.3	15.8
Amianto (mg/kg)	1000	1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Arsenico (mg/kg)	20	50	4.98	4.62	3.76	4.07	4.96	5.41	6.82	3.87	2.11	3.83	5.54	3.28	4.35	3.31	5.35	3.25	1.29	2.47	< 1	2.60
Cadmio (mg/kg)	2	15	0.133	< 0.1	< 0.1	< 0.1	0.139	0.190	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0161	0.218	0.0808	0.0917
Cobalto (mg/kg)	20	250	18.6	16.8	14.8	16.6	19.8	18.7	41.2	12.4	5.50	13.3	15.7	12.1	17.5	8.61	17.7	11.5	3.33	5.45	19.5	6.63
Cromo (mg/kg)	150	800	99.3	82.7	70.0	119	43.8	47.6	103	37.8	15.6	80.6	88.8	72.5	85.3	48.6	84.4	51.0	17.4	37.2	21.9	38.2
Cromo VI (mg/kg)	2	15	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Mercurio (mg/kg)	1	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.775	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nichel (mg/kg)	120	500	118	104	89.5	116	60.9	66.9	74.1	51.3	22.0	106	109	82.8	102	52.7	73.4	36.9	23.3	47.2	24.6	33.7
Piombo (mg/kg)	100	1000	14.2	12.2	10.3	11.7	14.7	16.8	21.5	9.54	4.18	11.1	9.72	8.24	12.7	8.69	13.4	8.43	3.60	3.83	1.76	20.3
Rame (mg/kg)	120	600	37.6	29.3	25.5	26.7	34.5	36.5	32.6	26.9	11.7	51.9	28.6	26.0	31.5	13.4	16.3	9.77	4.87	35.0	10.3	11.1
Zinco (mg/kg)	150	1500	84.1	92.5	59.8	58.4	73.3	71.7	97.5	64.1	40.3	68.6	76.9	57.8	68.4	31.2	51.5	33.2	13.1	49.7	16.6	46.0
Benzene (mg/kg)	0.1	2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Etilbenzene (mg/kg)	0.5	50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Stirene (mg/kg)	0.5	50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene (mg/kg)	0.5	50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Xileni (mg/kg)	0.5	50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sommatoria Organici Aromatici	1	100	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)antracene (mg/kg)	0.5	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pirene (mg/kg)	0.1	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluorantene (mg/kg)	0.5	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluorantene (mg/kg)	0.5	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perilene (mg/kg)	0.1	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Crisene (mg/kg)	5	50	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,e)pirene (mg/kg)	0.1	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,l)pirene (mg/kg)	0.1	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,i)pirene (mg/kg)	0.1	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)pirene (mg/kg)	0.1	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)antracene (mg/kg)	0.1	10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pirene (mg/kg)	0.1	5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pirene (mg/kg)	5	50	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sommatoria IPA	10	100	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Idrocarburi C>12 (C12-C40) (mg/kg)	50	750	29	< 5	< 5	< 5	27	23	< 5	26	< 5	42	< 5	30	< 5	16	12	29	< 5	17	< 5	13

Codice Campione	2204246.005	2204246.006	2207542.004	2207542.005	2207542.006	2208223.037	2208223.038	2208223.039	2208223.040	2208223.041	2208223.042	2208223.043	2208223.044	2208223.045	2208223.046	2208223.047	2208223.048	2208223.049	2208223.050	2208223.051
Campione	BH2 (1-2 m)	BH2 (3-4 m)	BH16 (60-61 m)	BH16 (65.5-66.5 m)	BH16 (71-72 m)	PZ01 (0-1 m)	PZ01 (1-2 m)	PZ01 (0-2 m)	PZ02 (0-1 m)	PZ02 (1-2 m)	PZ02 (0-2 m)	PZ03 (0-1 m)	PZ03 (1-2 m)	PZ04 (0-1 m)	PZ04 (1-2 m)	PZ07 (0-1 m)	PZ07 (1-2 m)	PZ08 (0-1 m)	PZ08 (1-2 m)	PZ08 (0-2 m)
Residuo a 105°C (%)	88.4	83.9	90.5	91.6	87.0	91.2	89.1	87.5	92.5	90.6	91.3	91.9	89.0	92.4	85.4	91.4	91.2	89.1	90.7	91.8
Scheletro tra 2 cm e 2 mm (%)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	17.9	< 1	< 1	< 1	< 1	28.2	< 1	28.3	< 1	< 1	< 1	< 1
Amianto (mg/kg)	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Arsenico (mg/kg)	3.24	3.28	3.54	4.62	3.92	3.35	4.89	3.78	3.08	2.43	3.47	2.98	4.59	1.53	4.50	3.09	5.58	4.81	3.69	5.31
Cadmio (mg/kg)	0.0809	0.0386	0.163	0.220	0.190	0.112	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.118	0.205	0.132	0.113	0.186
Cobalto (mg/kg)	8.63	7.90	16.9	16.3	18.1	7.06	10.7	8.85	8.54	5.68	7.64	7.38	5.65	3.24	12.2	12.3	19.5	14.9	11.6	18.9
Cromo (mg/kg)	51.0	51.3	73.4	60.5	61.7	40.2	56.4	51.8	65.3	37.5	47.0	47.1	50.1	26.6	61.2	24.6	40.5	83.9	61.4	86.3
Cromo VI (mg/kg)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Mercurio (mg/kg)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nichel (mg/kg)	44.8	41.7	95.5	82.0	87.5	35.9	50.8	45.8	62.8	33.6	40.3	38.7	29.3	25.0	47.2	38.5	62.9	104	76.8	113
Piombo (mg/kg)	9.61	7.67	16.7	16.2	15.8	8.81	9.83	10.1	8.93	8.34	9.93	11.0	10.6	4.82	12.1	11.5	20.7	16.3	11.8	18.0
Rame (mg/kg)	11.8	9.45	41.2	43.6	42.9	19.1	18.3	20.0	15.4	11.4	13.6	19.0	14.0	9.20	14.9	19.0	29.2	32.9	21.4	29.5
Zinco (mg/kg)	36.9	32.6	88.8	85.4	82.5	35.1	42.1	40.5	32.8	29.6	35.6	33.7	42.2	16.7	38.9	36.1	54.9	58.8	47.9	67.0
Benzene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Etilbenzene (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Stirene (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Xileni (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sommatoria Organici Aromatici	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)antracene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluorantene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluorantene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perilene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Crisene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,e)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,l)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,i)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)antracene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	0.0102	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sommatoria IPA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Idrocarburi C>12 (C12-C40) (mg/kg)	< 5	< 5	20	22	39	9.4	6.4	8.2	5.2	9.9	5.3	7.8	9.7	25	7.0	6.6	9.7	10	12	9.6

Codice Campione	2208223.052	2208223.053	2208223.054	2208223.055	2208223.056	2208223.057	2208223.058	2208223.059	2208223.060	2208223.061	2208223.062	2208223.063	2208223.064	2208223.065	2208223.066	2208223.067	2208223.068	2208223.069	2208545.004	2208545.005	2208545.006
Campione	PZ09 (0-1 m)	PZ09 (1-2 m)	PZ010 (0-1 m)	PZ010 (1-2 m)	PZ011 (0-1 m)	PZ011 (1-2 m)	PZ011 (0-2 m)	PZ012 (0-1 m)	PZ012 (1-2 m)	PZ014 (0-1 m)	PZ014 (1-2 m)	PZ016 (0-1 m)	PZ016 (1-2 m)	PZ016 (0-2 m)	PZ017 (0-1 m)	PZ017 (1-2 m)	PZ018 (0-1 m)	PZ018 (1-2 m)	BH15 (104-105 m)	BH15 (110-111 m)	BH15 (115-116 m)
Residuo a 105°C (%)	85.6	84.9	85.5	87.0	87.7	88.5	89.7	87.8	89.0	89.2	84.9	90.4	87.3	86.4	87.8	86.0	88.9	86.1	88.9	90.0	89.7
Scheletro tra 2 cm e 2 mm (%)	15.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	6.7	14.5	6.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Amianto (mg/kg)	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Arsenico (mg/kg)	3.77	4.18	7.32	4.47	6.71	8.53	4.68	6.54	3.21	4.67	5.43	5.13	3.67	4.35	3.92	3.95	5.72	5.99	7.37	3.73	3.50
Cadmio (mg/kg)	0.182	0.158	0.437	0.256	0.310	0.233	0.210	0.442	0.222	0.216	0.226	0.270	0.139	0.203	0.170	0.231	0.243	0.234	0.237	0.265	0.207
Cobalto (mg/kg)	12.2	11.1	19.2	18.4	18.6	18.5	18.3	19.1	11.7	11.2	13.6	11.7	8.86	10.9	8.96	10.9	12.2	15.4	18.0	13.2	23.7
Cromo (mg/kg)	52.0	44.8	81.2	46.3	58.5	77.4	77.4	75.2	43.6	35.2	43.2	34.4	24.7	31.1	25.7	37.0	31.0	37.2	77.6	49.0	56.8
Cromo VI (mg/kg)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Mercurio (mg/kg)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.167	< 0.1
Nichel (mg/kg)	69.1	62.1	118	69.1	79.5	102	103	105	60.7	49.0	60.4	49.0	35.2	44.2	36.9	49.7	47.7	55.1	93.7	62.9	102
Piombo (mg/kg)	12.6	10.8	32.7	15.1	24.5	18.4	18.7	28.7	11.7	15.1	16.1	17.5	10.6	12.9	13.6	13.4	23.8	18.5	18.1	12.3	14.9
Rame (mg/kg)	27.4	26.3	46.0	30.5	33.6	43.4	40.4	51.9	29.8	27.2	29.9	42.7	18.3	24.2	24.9	26.4	84.5	26.6	38.8	33.0	36.7
Zinco (mg/kg)	57.9	58.6	112	67.3	77.6	105	75.7	136	69.3	65.7	77.5	68.7	44.7	57.7	50.7	75.5	63.6	68.0	84.6	74.8	71.8
Benzene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Etilbenzene (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Stirene (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Xileni (mg/kg)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sommatoria Organici Aromatici	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)antracene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluorantene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluorantene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perilene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Crisene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,e)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,l)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,i)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)antracene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pirene (mg/kg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sommatoria IPA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Idrocarburi C>12 (C12-C40) (mg/kg)	11	15	22	14	31	40	8.2	10	16	11	10	18	94	9.2	5.4	11	5.7	6.4	21	23	14

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GRUPPO FS ITALIANE

Direzione Progettazione e Realizzazione Lavori

SGC Grosseto Fano (E78).
Tratto Nodo di Arezzo (S. Zeno) - Selci Lama (E45).
Adeguamento a 4 corsie del tratto Le Ville - Selci Lama (E45).
Lotto 7.

PROGETTO DEFINITIVO | PG 364

ANAS - DIREZIONE PROGETTAZIONE E REALIZZAZIONE LAVORI

IL GEOLOGO
Dott. Geol. Salvatore Marino
Ordine dei geologi della Regione Lazio n. 1069

COORDINATORE PER LA SICUREZZA IN FASE DI PROGETTAZIONE
Arch. Santo Salvatore Vermiglio
Ordine Architetti Provincia di Reggio Calabria n. 1270

L'ARCHEOLOGO
Dott.ssa Maria Grazia Liseno
Elenco MIBACT n. 1646

VISTO: IL RESP. DEL PROCEDIMENTO
Ing. Michele Consumini

VISTO: IL RESP. DEL PROGETTO
Arch.Pianif. Marco Colazza

PROGETTISTI SPECIALISTICI
Ing. Ambrogio Signorelli
Ordine Ingegneri Provincia di Roma n. A35111

Ing. Moreno Panfili
Ordine Ingegneri Provincia di Perugia n. A2657

Ing. Claudio Muller
Ordine Ingegneri Provincia di Roma n. 15754

Ing. Giovanni Suraci
Ordine Ingegneri Provincia di RC n. A2895

Ing. Giuseppe Resta
Ordine Ingegneri Provincia di Roma n. 20629

PROGETTAZIONE ATI:
(Mandataria) GPI INGEGNERIA — GESTIONE PROGETTI INGEGNERIA srl
(Mandante) cooprogetti
(Mandante) engeko
(Mandante) SAIM — Studio di Architettura e Ingegneria Moderna

IL PROGETTISTA RESPONSABILE DELL'INNTEGRAZIONE DELLE PRESTAZIONI SPECIALISTICHE. (DPR207/10 ART 15 COMMA 12) :
Dott. Ing. GIORGIO GUIDUCCI
Ordine Ingegneri Provincia di Roma n. 14035

STUDI ED INDAGINI
Piano Utilizzo Terre
Planimetria ubicazione indagini ambientali
Tav 3 di 3

CODICE PROGETTO			NOME FILE	REVISIONE	SCALA
COMP.	PROGETTO	LIV. ANNO N.PROG.	T00GE11GEOPU03A		
DP	LO702G	D2110	CODICE ELAB. T00GE11GEOPU03	A	1:5000

REV.	DESCRIZIONE	DATA	REDATTO	VERIFICATO	APPROVATO
D					
C					
B					
A	Emissione per Istr. ANAS Prot. CDG.U.0439522 23-05-2024	Giugno '24	Gentile	Signorelli	Guiducci