UGGERI
ALESSANDRO
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Stazione Elettrica 132 kV Poggio Renatico (FE) e Raccordi alla RTN ed Opere Connesse
STUDIO GEOLOGICO, GEOTECNICO E DI COMPATIBILITA' GEOMORFOLOGICA

ALLEGATI e TAVOLE

Storia delle revisioni Fornitore

Rev.	Data	descrizione	Elaborato	Verificato	Approvato
02	21/07/2022	Modificato a seguito variazione del tracciato MT	Dott.ssa M. Bombetti	Dr. Geol. L. Osculati	Dr. Geol. A. Uggeri
01	06/08/2021	Modificato a seguito sorveglianza Terna	Dott.ssa M. Bombetti	Dr. Geol. D. Fantoni	Dr. Geol. D. Fantoni
00	27/07/2021	Prima emissione	Dr. Geol. N. Bistacchi	Dr. Geol. A. Uggeri	Dr. Geol. A. Uggeri
Codice Elaborato Fornitore		Idrogea servizi S.r.l. Società di Ingegneria – EURO GEO Indagini geognostiche	Dr. Geol. A. Uggeri		
RUDR21003B2132236_ rev02 (Allegati e Tavole)					

MOTIVO DELL'INVIO:	☑ PER ACCETTAZIONE	☐ PER INFORMAZIONE

CODIFICA ELABORATO
RUDR21003B2132236

Allegato 1. – Elaborati prove penetrometriche statiche CPTU

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.01	0.01	0.03	0.18	3	0.010	0.000	0.30	0.00018
0.02	0.01	0.03	0.45	3.06	0.010	0.000	0.30	0.00045
0.03	0.09	0.04	1.17	3	0.090	0.000	0.04	0.00117
0.04	0.38	0.02	2.16	2.98	0.380	0.000	0.01	0.00216
0.05	0.98	0.03	0	3.05	0.980	0.000	0.00	0
0.06	1.07	0.03	-1.35	3.05	1.070	0.000	0.00	-0.00135
0.07	0.87	0.83	-1.08	3.09	0.870	0.001	0.10	-0.00108
0.08	1.06	1.02	-0.18	3.13	1.060	0.001	0.10	-0.00018
0.09	1.22	0.86	-0.45	3.13	1.220	0.001	0.07	-0.00045
0.1	1.4	1.11	-0.36	3.13	1.400	0.001	0.08	-0.00036
0.11	1.63	1.75	0.18	3.13	1.630	0.002	0.11	0.00018
0.12	1.99	2.45	0.72	3.13	1.990	0.002	0.12	0.00072
0.13	2.4	6.08	0.18	3.06	2.400	0.006	0.25	0.00018
0.14	2.47	5.83	0	3.06	2.470	0.006	0.24	0
0.15	2.57	7.2	0	3.06	2.570	0.007	0.28	0
0.16	2.65	10.22	-0.18	3.02	2.650	0.010	0.39	-0.00018
0.17	2.53	12.2	-0.27	3.02	2.530	0.012	0.48	-0.00027
0.18	2.52	13.15	-0.27	2.92	2.520	0.013	0.52	-0.00027
0.19	2.49	11.46	-0.54	2.98	2.490	0.011	0.46	-0.00054
0.2	2.1	10.64	-0.81	2.92	2.100	0.011	0.51	-0.00081
0.21	1.99	12.96	-0.63	2.82	1.990	0.013	0.65	-0.00063
0.22	2	14.33	-0.72	2.82	2.000	0.014	0.72	-0.00072
0.23	2.13	11.46	-0.36	2.82	2.130	0.011	0.54	-0.00036
0.24	2.16	12.64	-0.36	2.82	2.160	0.013	0.59	-0.00036
0.25	2.36	14.55	-0.09	2.82	2.360	0.015	0.62	-0.00009
0.26	2.62	13.76	-0.18	2.85	2.620	0.014	0.53	-0.00018
0.27	2.52	12.67	-0.45	2.85	2.520	0.013	0.50	-0.00045
0.28	2.31	12.39	-0.45	2.74	2.310	0.012	0.54	-0.00045
0.29	2.47	17.36	-0.09	2.74	2.470	0.017	0.70	-0.00009
0.3	2.79	19.78	0.09	2.74	2.790	0.020	0.71	0.00009
0.31	2.89	21.59	0	2.74	2.890	0.022	0.75	0
0.32	2.89	18.25	-0.18	2.74	2.890	0.018	0.63	-0.00018
0.33	2.78	20.38	-0.45	2.71	2.780	0.020	0.73	-0.00045
0.34	2.71	24.65	-0.36	2.64	2.710	0.025	0.91	-0.00036
0.35	3.03	25.67	-0.27	2.64	3.030	0.026	0.85	-0.00027
0.36	2.94	27.64	-0.18	2.71	2.940	0.028	0.94	-0.00018
0.37	2.9	24.2	-0.36	2.71	2.900	0.024	0.83	-0.00036
0.38	2.73	27.87	-0.63	2.71	2.730	0.028	1.02	-0.00063
0.39	2.79	30.67	-0.45	2.64	2.790	0.031	1.10	-0.00045
0.4	2.83	29.43	-0.63	2.64	2.830	0.029	1.04	-0.00063
0.41	2.83	32.55	-0.63	2.64	2.830	0.033	1.15	-0.00063
0.42	2.87	31.62	-0.63	2.71	2.870	0.032	1.10	-0.00063
0.43	2.78	32.99	-0.81	2.71	2.780	0.033	1.19	-0.00081
0.44	2.59	32.77	-1.08	2.71	2.590	0.033	1.27	-0.00108
0.45	2.67	33.85	-0.81	2.71	2.670	0.034	1.27	-0.00081
0.46	3.03	32.42	-0.63	2.71	3.030	0.032	1.07	-0.00063
0.47	3.16	30.25	-0.72	2.71	3.160	0.030	0.96	-0.00072
0.48	2.84	32.71	-0.99	2.71	2.840	0.033	1.15	-0.00099
0.49	3.17	32.23	-0.54	2.71	3.170	0.032	1.02	-0.00054
0.5	3.56	30.92	-0.36	2.71	3.560	0.031	0.87	-0.00036
0.51	3.57	33.57	-0.54	2.71	3.570	0.034	0.94	-0.00054
0.52	3.38	32.07	-0.81	2.71	3.380	0.032	0.95	-0.00081
0.53	3.29	39.23	-0.9	2.71	3.290	0.039	1.19	-0.0009
0.54	3.08	47.48	-1.17	2.71	3.080	0.047	1.54	-0.00117
0.55	2.93	47.9	-1.35	2.68	2.930	0.048	1.63	-0.00135
0.56	3.04	48.6	-1.08	2.68	3.040	0.049	1.60	-0.00108
0.57	3.38	48.6	-0.81	2.68	3.380	0.049	1.44	-0.00081

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.58	3.67	47.58	-0.63	2.71	3.670	0.048	1.30	-0.00063
0.59	3.67	47.58	-0.63	2.71	3.670	0.048	1.30	-0.00063
0.6	4.01	41.81	-0.18	2.71	4.010	0.042	1.04	-0.00018
0.61	4.19	42.13	-0.27	2.71	4.190	0.042	1.01	-0.00027
0.62	4.28	42.83	-0.45	2.71	4.280	0.043	1.00	-0.00045
0.63	4.18	46.97	-0.72	2.71	4.180	0.047	1.12	-0.00072
0.64	4.08	53.12	-1.08	2.71	4.080	0.053	1.30	-0.00108
0.65	3.74	62.26	-1.35	2.71	3.740	0.062	1.66	-0.00135
0.66	3.74	66.94	-1.35	2.71	3.740	0.067	1.79	-0.00135
0.67	3.96	66.43	-1.08	2.71	3.960	0.066	1.68	-0.00108
0.68	4.2	62.71	-1.17	2.71	4.200	0.063	1.49	-0.00117
0.69	4.23	64.01	-1.17	2.71	4.230	0.064	1.51	-0.00117
0.7	4.38	69.71	-1.08	2.71	4.380	0.070	1.59	-0.00108
0.71	4.56	73.91	-1.08	2.71	4.560	0.074	1.62	-0.00108
0.72	4.61	79.49	-0.99	2.71	4.610	0.079	1.72	-0.00099
0.73	4.7	88.09	-0.99	2.74	4.700	0.088	1.87	-0.00099
0.74	4.68	92.16	-0.99	2.74	4.680	0.092	1.97	-0.00099
0.75	4.9	95.92	-0.9	2.74	4.900	0.096	1.96	-0.0009
0.76	4.96	99.84	-1.17	2.78	4.960	0.100	2.01	-0.00117
0.77	4.85	96.43	-1.26	2.78	4.850	0.096	1.99	-0.00126
0.78	4.67	98.6	-1.62	2.78	4.670	0.099	2.11	-0.00162
0.79	4.49	98.88	-1.8	2.78	4.490	0.099	2.20	-0.0018
0.8	4.36	109.46	-1.89	2.78	4.360	0.109	2.51	-0.00189
0.81	4.37	113.69	-1.89	2.78	4.370	0.114	2.60	-0.00189
0.82	4.48	109.39	-1.8	2.78	4.480	0.109	2.44	-0.0018
0.83	4.56	104.39	-2.07	2.78	4.560	0.104	2.29	-0.00207
0.84	4.25	102.96	-2.34	2.78	4.250	0.103	2.42	-0.00234
0.85	4.15	105.57	-2.52	2.78	4.150	0.106	2.54	-0.00252
0.86	4.13	104.84	-2.52	2.78	4.130	0.105	2.54	-0.00252
0.87	4.26	101.08	-1.71	2.78	4.260	0.101	2.37	-0.00171
0.88	3.55	86.69	-2.97	2.78	3.550	0.087	2.44	-0.00297
0.89	3.41	99.96	-2.25	2.78	3.410	0.100	2.93	-0.00225
0.9	4.27	99.33	-2.43	2.78	4.270	0.099	2.33	-0.00243
0.91	4.01	101.72	-2.97	2.78	4.010	0.102	2.54	-0.00297
0.92	4.01	101.72	-2.97	2.78	4.010	0.102	2.54	-0.00297
0.93	4.01	101.72	-2.97	2.78	4.010	0.102	2.54	-0.00297
0.94	3.39	106.91	-4.23	2.82	3.390	0.107	3.15	-0.00423
0.95	3.31	120.35	-4.23	2.82	3.310	0.120	3.64	-0.00423
0.96	3.42	120.12	-4.33	2.82	3.420	0.120	3.51	-0.00433
0.97	3.37	120.03	-4.33	2.82	3.370	0.120	3.56	-0.00433
0.98	3.36	118.47	-4.42	2.75	3.360	0.118	3.53	-0.00442
0.99	3.3	121.52	-4.51	2.79	3.300	0.122	3.68	-0.00451
1	3.27	126.11	-4.42	2.79	3.270	0.126	3.86	-0.00442
1.01	3.29	130.73	-4.42	2.79	3.290	0.131	3.97	-0.00442
1.02	2.53	141.75	-4.96	2.79	2.530	0.142	5.60	-0.00496
1.03	2.7	147.89	-4.69	2.79	2.700	0.148	5.48	-0.00469
1.04	2.7	147.89	-4.69	2.79	2.700	0.148	5.48	-0.00469
1.05	2.84	142.26	-4.6	2.79	2.840	0.142	5.01	-0.0046
1.06	3.14	139.87	-4.6	2.79	3.140	0.140	4.45	-0.0046
1.07	3.39	138.79	-4.51	2.85	3.390	0.139	4.09	-0.00451
1.08	3.59	129.77	-4.42	2.85	3.590	0.130	3.61	-0.00442
1.09	3.67	129.93	-4.42	2.85	3.670	0.130	3.54	-0.00442
1.1	3.78	131.78	-4.33	2.85	3.780	0.132	3.49	-0.00433
1.11	3.95	134.1	-4.23	2.85	3.950	0.134	3.39	-0.00423
1.12	4.16	136.78	-4.23	2.89	4.160	0.137	3.29	-0.00423
1.13	4.24	138.53	-4.23	2.85	4.240	0.139	3.27	-0.00423
1.14	4.34	144.49	-4.42	2.89	4.340	0.144	3.33	-0.00442

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.15	4.21	156.52	-4.6	2.85	4.210	0.157	3.72	-0.0046
1.16	4.19	162.64	-4.51	2.85	4.190	0.163	3.88	-0.00451
1.17	4.25	169.49	-4.6	2.85	4.250	0.169	3.99	-0.0046
1.18	4.28	179.1	-4.42	2.92	4.280	0.179	4.18	-0.00442
1.19	4.47	183.72	-4.33	2.85	4.470	0.184	4.11	-0.00433
1.2	4.57	185.03	-4.42	2.85	4.570	0.185	4.05	-0.00442
1.21	4.56	188.31	-4.96	2.85	4.560	0.188	4.13	-0.00496
1.22	4.55	190.63	-4.96	2.85	4.550	0.191	4.19	-0.00496
1.23	4.54	199.96	-5.41	2.85	4.540	0.200	4.40	-0.00541
1.24	4.03	210.09	-5.5	2.92	4.030	0.210	5.21	-0.0055
1.25	3.53	224.99	-5.23	2.92	3.530	0.225	6.37	-0.00523
1.26	3.49	227.48	-5.23	2.85	3.490	0.227	6.52	-0.00523
1.27	3.35	231.36	-5.23	2.92	3.350	0.231	6.91	-0.00523
1.28	3.44	223.24	-5.23	2.92	3.440	0.223	6.49	-0.00523
1.29	3.27	216.01	-5.41	2.92	3.270	0.216	6.61	-0.00541
1.3	3.24	211.49	-5.23	2.92	3.240	0.211	6.53	-0.00523
1.31	3.53	197.06	-5.05	2.92	3.530	0.197	5.58	-0.00505
1.32	3.57	192.03	-5.32	2.92	3.570	0.192	5.38	-0.00532
1.33	3.3	198.72	-5.41	2.92	3.300	0.199	6.02	-0.00541
1.34	3.28	189.52	-5.5	2.92	3.280	0.190	5.78	-0.0055
1.35	3.3	174.64	-5.41	2.96	3.300	0.175	5.29	-0.00541
1.36	3.56	156.56	-5.32	2.92	3.560	0.157	4.40	-0.00532
1.37	3.53	148.31	-5.41	2.92	3.530	0.148	4.20	-0.00541
1.38	3.71	141.17	-5.32	2.98	3.710	0.141	3.81	-0.00532
1.39	3.71	141.17	-5.32	2.98	3.710	0.141	3.81	-0.00532
1.4	3.62	145.92	-5.41	2.98	3.620	0.146	4.03	-0.00541
1.41	3.69	148.37	-5.41	2.98	3.690	0.148	4.02	-0.00541
1.42	3.87	149.17	-5.23	2.98	3.870	0.149	3.85	-0.00523
1.43	3.99	152.22	-5.59	2.98	3.990	0.152	3.82	-0.00559
1.44	4.1	157.83	-6.94	2.98	4.100	0.158	3.85	-0.00694
1.45	4.32	163.94	-5.32	2.98	4.320	0.164	3.79	-0.00532
1.46	4.44	175.03	-1.53	2.98	4.440	0.175	3.94	-0.00153
1.47	4.54	185.15	-17.48	2.98	4.540	0.185	4.08	-0.01748
1.48	4.76	190.63	-12.34	2.98	4.760	0.191	4.00	-0.01234
1.49	4.91	203.62	-6.22	2.98	4.910	0.204	4.15	-0.00622
1.5	5.03	215.18	-6.4	2.98	5.030	0.215	4.28	-0.0064
1.51	4.97	228.85	-17.39	2.98	4.970	0.229	4.60	-0.01739
1.52	5.03	229.2	-16.13	2.98	5.030	0.229	4.56	-0.01613
1.53	5.17	232.76	-14.06	2.98	5.170	0.233	4.50	-0.01406
1.54	5.09	236.55	-13.88	2.98	5.090	0.237	4.65	-0.01388
1.55	5.03	240.85	-10.18	2.98	5.030	0.241	4.79	-0.01018
1.56	4.96	243.02	-9.37	2.98	4.960	0.243	4.90	-0.00937
1.57	4.82	249.13	-9.82	2.98	4.820	0.249	5.17	-0.00982
1.58	4.6	258.3	-13.88	2.98	4.600	0.258	5.62	-0.01388
1.59	4.55	259.51	-11.17	2.98	4.550	0.260	5.70	-0.01117
1.6	4.51	262.09	-11.89	2.98	4.510	0.262	5.81	-0.01189
1.61	4.35	266.68	-11.8	2.98	4.350	0.267	6.13	-0.0118
1.62	4.34	267.51	-8.74	2.98	4.340	0.268	6.16	-0.00874
1.63	4.43	264.61	-6.4	2.98	4.430	0.265	5.97	-0.0064
1.64	4.44	262.57	-6.85	2.98	4.440	0.263	5.91	-0.00685
1.65	4.25	264.04	-6.04	2.98	4.250	0.264	6.21	-0.00604
1.66	4.23	270.41	-11.62	2.98	4.230	0.270	6.39	-0.01162
1.67	4.31	266.04	-14.78	2.98	4.310	0.266	6.17	-0.01478
1.68	4.36	266.46	-8.2	2.98	4.360	0.266	6.11	-0.0082
1.69	4.36	266.46	-8.2	2.98	4.360	0.266	6.11	-0.0082
1.7	4.08	275.95	-2.43	2.92	4.080	0.276	6.76	-0.00243
1.71	3.83	284.99	-9.19	2.92	3.830	0.285	7.44	-0.00919

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.72	3.43	296.23	-7.93	2.98	3.430	0.296	8.64	-0.00793
1.73	3.13	297.38	-5.32	2.92	3.130	0.297	9.50	-0.00532
1.74	2.92	304.29	-7.39	2.96	2.920	0.304	10.42	-0.00739
1.75	2.73	301.77	-5.23	2.96	2.730	0.302	11.05	-0.00523
1.76	3.06	290.69	-5.14	2.96	3.060	0.291	9.50	-0.00514
1.77	3.32	283.84	-5.05	2.96	3.320	0.284	8.55	-0.00505
1.78	3.47	272.89	-5.05	2.92	3.470	0.273	7.86	-0.00505
1.79	3.6	267	-5.14	2.92	3.600	0.267	7.42	-0.00514
1.8	3.73	257.76	-5.32	2.92	3.730	0.258	6.91	-0.00532
1.81	3.66	253.62	-5.23	2.92	3.660	0.254	6.93	-0.00523
1.82	3.39	249.26	-5.77	2.92	3.390	0.249	7.35	-0.00577
1.83	3.34	244.99	-5.68	2.92	3.340	0.245	7.34	-0.00568
1.84	3.11	241.55	-5.86	2.92	3.110	0.242	7.77	-0.00586
1.85	3.02	236.27	-5.86	2.92	3.020	0.236	7.82	-0.00586
1.86	2.8	235.12	-6.04	2.92	2.800	0.235	8.40	-0.00604
1.87	2.75	237.13	-6.31	2.92	2.750	0.237	8.62	-0.00631
1.88	2.72	231.68	-6.04	2.92	2.720	0.232	8.52	-0.00604
1.89	2.73	226.74	-5.5	2.92	2.730	0.227	8.31	-0.0055
1.9	2.51	222.57	-5.77	2.92	2.510	0.223	8.87	-0.00577
1.91	2.44	218.11	-5.95	2.92	2.440	0.218	8.94	-0.00595
1.92	2.44	218.11	-5.95	2.92	2.440	0.218	8.94	-0.00595
1.93	2.44	218.11	-5.95	2.92	2.440	0.218	8.94	-0.00595
1.94	2.94	164.39	-4.69	2.92	2.940	0.164	5.59	-0.00469
1.95	2.87	160.12	-4.78	2.92	2.870	0.160	5.58	-0.00478
1.96	2.81	153.31	-4.78	2.92	2.810	0.153	5.46	-0.00478
1.97	2.85	145.28	-4.78	2.92	2.850	0.145	5.10	-0.00478
1.98	2.69	145.19	-5.05	2.92	2.690	0.145	5.40	-0.00505
1.99	2.66	137.83	-5.05	2.92	2.660	0.138	5.18	-0.00505
2	2.66	137.83	-5.05	2.92	2.660	0.138	5.18	-0.00505
2.01	2.73	126.33	-5.05	2.92	2.730	0.126	4.63	-0.00505
2.02	2.93	116.72	-4.69	2.85	2.930	0.117	3.98	-0.00469
2.03	3.23	114.9	-4.6	2.82	3.230	0.115	3.56	-0.0046
2.04	3.36	116.72	-4.69	2.82	3.360	0.117	3.47	-0.00469
2.05	3.08	128.12	-5.5	2.85	3.080	0.128	4.16	-0.0055
2.06	2.85	136.4	-5.86	2.85	2.850	0.136	4.79	-0.00586
2.07	2.81	143.88	-5.5	2.85	2.810	0.144	5.12	-0.0055
2.08	2.71	151.33	-5.14	2.85	2.710	0.151	5.58	-0.00514
2.09	2.77	157.99	-5.23	2.85	2.770	0.158	5.70	-0.00523
2.1	2.72	164.96	-5.14	2.79	2.720	0.165	6.06	-0.00514
2.11	2.82	167.51	-5.14	2.79	2.820	0.168	5.94	-0.00514
2.12	2.82	172.7	-5.05	2.79	2.820	0.173	6.12	-0.00505
2.13	2.95	176.94	-5.05	2.79	2.950	0.177	6.00	-0.00505
2.14	3.02	184.58	-7.66	2.79	3.020	0.185	6.11	-0.00766
2.15	2.89	196.9	-12.43	2.79	2.890	0.197	6.81	-0.01243
2.16	2.78	201.65	-8.02	2.79	2.780	0.202	7.25	-0.00802
2.17	2.83	203.91	-5.32	2.83	2.830	0.204	7.21	-0.00532
2.18	2.8	203.02	-4.96	2.83	2.800	0.203	7.25	-0.00496
2.19	2.61	207.54	-5.32	2.83	2.610	0.208	7.95	-0.00532
2.2	2.39	207.29	-5.23	2.83	2.390	0.207	8.67	-0.00523
2.21	2.43	198.91	-5.23	2.83	2.430	0.199	8.19	-0.00523
2.22	2.43	198.91	-5.23	2.83	2.430	0.199	8.19	-0.00523
2.23	2.36	197.38	-5.05	2.83	2.360	0.197	8.36	-0.00505
2.24	2.61	193.78	-4.87	2.83	2.610	0.194	7.42	-0.00487
2.25	3.07	185.34	-4.69	2.83	3.070	0.185	6.04	-0.00469
2.26	3.43	173.47	-4.51	2.83	3.430	0.173	5.06	-0.00451
2.27	3.61	166.01	-4.96	2.87	3.610	0.166	4.60	-0.00496
2.28	3.41	163.98	-5.05	2.87	3.410	0.164	4.81	-0.00505

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.29	3.13	162.16	-5.32	2.87	3.130	0.162	5.18	-0.00532
2.3	3.13	155.5	-4.96	2.87	3.130	0.156	4.97	-0.00496
2.31	3.26	150.89	-4.78	2.92	3.260	0.151	4.63	-0.00478
2.32	3.26	152.22	-4.96	2.92	3.260	0.152	4.67	-0.00496
2.33	3	156.62	-5.23	2.92	3.000	0.157	5.22	-0.00523
2.34	2.94	160.54	-5.05	2.92	2.940	0.161	5.46	-0.00505
2.35	3.01	163.56	-5.14	2.92	3.010	0.164	5.43	-0.00514
2.36	2.68	166.75	-5.14	2.96	2.680	0.167	6.22	-0.00514
2.37	3.07	169.87	-4.69	2.96	3.070	0.170	5.53	-0.00469
2.38	3.19	175.76	-4.78	2.96	3.190	0.176	5.51	-0.00478
2.39	2.87	186.97	-5.32	2.96	2.870	0.187	6.51	-0.00532
2.4	2.95	193.94	-4.96	3.01	2.950	0.194	6.57	-0.00496
2.41	2.98	197.38	-4.96	3.01	2.980	0.197	6.62	-0.00496
2.42	2.66	201.46	-5.23	3.01	2.660	0.201	7.57	-0.00523
2.43	2.62	203.62	-5.14	3.01	2.620	0.204	7.77	-0.00514
2.44	2.62	203.62	-5.14	3.01	2.620	0.204	7.77	-0.00514
2.45	2.58	201.75	-5.14	2.95	2.580	0.202	7.82	-0.00514
2.46	2.52	194.83	-5.32	2.95	2.520	0.195	7.73	-0.00532
2.47	2.36	187.57	-5.68	2.99	2.360	0.188	7.95	-0.00568
2.48	2.14	180.6	-5.68	2.99	2.140	0.181	8.44	-0.00568
2.49	2.1	169.52	-5.77	2.94	2.100	0.170	8.07	-0.00577
2.5	2.34	158.34	-5.05	2.94	2.340	0.158	6.77	-0.00505
2.51	2.3	152.51	-5.41	2.94	2.300	0.153	6.63	-0.00541
2.52	2.17	153.08	-5.41	2.94	2.170	0.153	7.05	-0.00541
2.53	2.13	147.38	-5.23	2.94	2.130	0.147	6.92	-0.00523
2.54	1.99	144.68	-5.68	2.94	1.990	0.145	7.27	-0.00568
2.55	1.71	139.65	-5.68	2.94	1.710	0.140	8.17	-0.00568
2.56	1.93	127.13	-5.5	2.88	1.930	0.127	6.59	-0.0055
2.57	2.08	120.44	-5.32	2.88	2.080	0.120	5.79	-0.00532
2.58	2.14	115.54	-5.23	2.88	2.140	0.116	5.40	-0.00523
2.59	2.06	110.25	-5.41	2.93	2.060	0.110	5.35	-0.00541
2.6	1.88	117.23	-5.59	2.93	1.880	0.117	6.24	-0.00559
2.61	1.79	122.1	-5.59	2.93	1.790	0.122	6.82	-0.00559
2.62	1.95	124.2	-5.5	2.93	1.950	0.124	6.37	-0.0055
2.63	1.97	123.85	-5.41	2.88	1.970	0.124	6.29	-0.00541
2.64	2	125.28	-5.59	2.88	2.000	0.125	6.26	-0.00559
2.65	2	125.28	-5.59	2.88	2.000	0.125	6.26	-0.00559
2.66	1.94	127.67	-5.59	2.93	1.940	0.128	6.58	-0.00559
2.67	1.91	126.68	-5.59	2.93	1.910	0.127	6.63	-0.00559
2.68	1.96	122.13	-6.22	2.93	1.960	0.122	6.23	-0.00622
2.69	1.9	110.95	-5.32	2.98	1.900	0.111	5.84	-0.00532
2.7	2.16	100.44	-5.32	2.98	2.160	0.100	4.65	-0.00532
2.71	2.25	92.74	-5.68	3.03	2.250	0.093	4.12	-0.00568
2.72	2.17	94.9	-1.35	3.03	2.170	0.095	4.37	-0.00135
2.73	2.18	95.98	-1.89	3.09	2.180	0.096	4.40	-0.00189
2.74	2.17	92.26	-4.05	3.09	2.170	0.092	4.25	-0.00405
2.75	2.06	94.2	-3.42	3.09	2.060	0.094	4.57	-0.00342
2.76	2.12	97.77	-4.05	3.14	2.120	0.098	4.61	-0.00405
2.77	1.92	104.2	-4.05	3.14	1.920	0.104	5.43	-0.00405
2.78	1.58	114.96	-3.87	3.19	1.580	0.115	7.28	-0.00387
2.79	1.62	117.86	-3.69	3.19	1.620	0.118	7.28	-0.00369
2.8	1.81	118.85	-3.69	3.19	1.810	0.119	6.57	-0.00369
2.81	1.76	118.98	-3.87	3.14	1.760	0.119	6.76	-0.00387
2.82	1.55	123.37	-4.14	3.14	1.550	0.123	7.96	-0.00414
2.83	1.56	125.54	-4.33	3.14	1.560	0.126	8.05	-0.00433
2.84	1.67	119.58	-3.69	3.19	1.670	0.120	7.16	-0.00369
2.85	1.69	122.93	-4.23	3.19	1.690	0.123	7.27	-0.00423

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.86	1.69	122.93	-4.23	3.19	1.690	0.123	7.27	-0.00423
2.87	1.78	124.39	-3.96	3.19	1.780	0.124	6.99	-0.00396
2.88	1.73	130.95	-4.14	3.19	1.730	0.131	7.57	-0.00414
2.89	1.42	135.19	-4.14	3.19	1.420	0.135	9.52	-0.00414
2.9	1.38	137.51	-7.3	3.19	1.380	0.138	9.96	-0.0073
2.91	1.22	132.89	-5.5	3.14	1.220	0.133	10.89	-0.0055
2.92	1.22	132.89	-5.5	3.14	1.220	0.133	10.89	-0.0055
2.93	1.22	132.89	-5.5	3.14	1.220	0.133	10.89	-0.0055
2.94	1.06	105.76	-5.32	3.04	1.060	0.106	9.98	-0.00532
2.95	1.16	97.1	-4.23	3.04	1.160	0.097	8.37	-0.00423
2.96	1.02	91.75	-5.59	2.99	1.020	0.092	9.00	-0.00559
2.97	1.09	82.04	-5.41	2.99	1.090	0.082	7.53	-0.00541
2.98	1.34	71.46	-4.23	2.99	1.340	0.071	5.33	-0.00423
2.99	1.25	66.05	-3.96	2.95	1.250	0.066	5.28	-0.00396
3	1.08	65.6	-5.23	2.89	1.080	0.066	6.07	-0.00523
3.01	1.07	60.13	-5.32	2.89	1.070	0.060	5.62	-0.00532
3.02	0.93	58.98	-3.78	2.89	0.930	0.059	6.34	-0.00378
3.03	1.14	59.71	-3.42	2.89	1.140	0.060	5.24	-0.00342
3.04	1.01	67.07	-2.25	2.79	1.010	0.067	6.64	-0.00225
3.05	1.12	75.48	-1.62	2.79	1.120	0.075	6.74	-0.00162
3.06	1.11	77.13	-2.88	2.79	1.110	0.077	6.95	-0.00288
3.07	1.16	80.06	-3.06	2.79	1.160	0.080	6.90	-0.00306
3.08	1.33	86.84	-1.17	2.79	1.330	0.087	6.53	-0.00117
3.09	1.4	91.3	-1.17	2.68	1.400	0.091	6.52	-0.00117
3.1	1.41	93.02	-1.17	2.68	1.410	0.093	6.60	-0.00117
3.11	1.54	90.09	-2.61	2.68	1.540	0.090	5.85	-0.00261
3.12	1.47	89.33	-1.89	2.68	1.470	0.089	6.08	-0.00189
3.13	1.77	87.58	-0.99	2.64	1.770	0.088	4.95	-0.00099
3.14	1.54	91.46	-1.26	2.58	1.540	0.091	5.94	-0.00126
3.15	1.44	97.26	-0.18	2.58	1.440	0.097	6.75	-0.00018
3.16	1.77	91.94	-0.45	2.58	1.770	0.092	5.19	-0.00045
3.17	1.77	91.94	-0.45	2.58	1.770	0.092	5.19	-0.00045
3.18	1.67	86.84	-1.35	2.58	1.670	0.087	5.20	-0.00135
3.19	1.91	84.9	-0.36	2.48	1.910	0.085	4.45	-0.00036
3.2	2.11	84.33	-0.27	2.48	2.110	0.084	4.00	-0.00027
3.21	2.25	84.93	1.89	2.48	2.250	0.085	3.77	0.00189
3.22	2.23	87.64	-14.24	2.42	2.230	0.088	3.93	-0.01424
3.23	2.17	89.55	-20.9	2.42	2.170	0.090	4.13	-0.0209
3.24	2.25	91.84	-12.43	2.42	2.250	0.092	4.08	-0.01243
3.25	2.32	89.9	-22.17	2.42	2.320	0.090	3.88	-0.02217
3.26	2.25	90.12	-14.87	2.36	2.250	0.090	4.01	-0.01487
3.27	2.22	94.11	-13.7	2.36	2.220	0.094	4.24	-0.0137
3.28	2.19	98.53	-16.13	2.36	2.190	0.099	4.50	-0.01613
3.29	2.32	103.69	-8.65	2.36	2.320	0.104	4.47	-0.00865
3.3	2.31	107.7	-1.89	2.36	2.310	0.108	4.66	-0.00189
3.31	2.33	110.73	-1.89	2.36	2.330	0.111	4.75	-0.00189
3.32	2.35	111.88	0.54	2.36	2.350	0.112	4.76	0.00054
3.33	2.31	114.14	-3.06	2.31	2.310	0.114	4.94	-0.00306
3.34	2.41	115.73	0.09	2.31	2.410	0.116	4.80	0.00009
3.35	2.38	114.26	4.69	2.31	2.380	0.114	4.80	0.00469
3.36	2.4	113.05	1.17	2.31	2.400	0.113	4.71	0.00117
3.37	2.43	109.01	5.32	2.31	2.430	0.109	4.49	0.00532
3.38	2.43	109.01	5.32	2.31	2.430	0.109	4.49	0.00532
3.39	2.42	107	10	2.31	2.420	0.107	4.42	0.01
3.4	2.38	107.74	9.55	2.31	2.380	0.108	4.53	0.00955
3.41	2.31	109.42	7.39	2.26	2.310	0.109	4.74	0.00739
3.42	2.29	110.89	10.9	2.26	2.290	0.111	4.84	0.0109

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
3.43	2.23	111.4	12.8	2.26	2.230	0.111	5.00	0.0128
3.44	2.19	110.79	12.52	2.26	2.190	0.111	5.06	0.01252
3.45	2.14	110.28	14.15	2.26	2.140	0.110	5.15	0.01415
3.46	2.13	110.47	17.57	2.32	2.130	0.110	5.19	0.01757
3.47	2.03	110.89	19.55	2.32	2.030	0.111	5.46	0.01955
3.48	1.85	110.09	15.5	2.27	1.850	0.110	5.95	0.0155
3.49	1.76	107.96	16.22	2.27	1.760	0.108	6.13	0.01622
3.5	1.72	105.82	13.97	2.27	1.720	0.106	6.15	0.01397
3.51	1.78	105.38	14.06	2.27	1.780	0.105	5.92	0.01406
3.52	1.7	105.95	14.42	2.33	1.700	0.106	6.23	0.01442
3.53	1.65	106.59	14.51	2.33	1.650	0.107	6.46	0.01451
3.54	1.65	106.62	11.44	2.33	1.650	0.107	6.46	0.01144
3.55	1.74	104.33	9.37	2.33	1.740	0.104	6.00	0.00937
3.56	1.64	103.79	10.99	2.33	1.640	0.104	6.33	0.01099
3.57	1.63	102.39	9.28	2.33	1.630	0.102	6.28	0.00928
3.58	1.63	102.39	9.28	2.33	1.630	0.102	6.28	0.00928
3.59	1.6	99.81	9.82	2.39	1.600	0.100	6.24	0.00982
3.6	1.58	97.86	10.45	2.39	1.580	0.098	6.19	0.01045
3.61	1.52	96.08	7.57	2.39	1.520	0.096	6.32	0.00757
3.62	1.37	95.92	2.88	2.39	1.370	0.096	7.00	0.00288
3.63	1.41	97.29	-8.29	2.39	1.410	0.097	6.90	-0.00829
3.64	1.54	97.1	-7.39	2.39	1.540	0.097	6.31	-0.00739
3.65	1.56	97.23	-5.77	2.39	1.560	0.097	6.23	-0.00577
3.66	1.47	99.39	7.66	2.39	1.470	0.099	6.76	0.00766
3.67	1.41	99.55	14.15	2.39	1.410	0.100	7.06	0.01415
3.68	1.39	100.6	10.45	2.39	1.390	0.101	7.24	0.01045
3.69	1.41	103.09	13.07	2.43	1.410	0.103	7.31	0.01307
3.7	1.4	103.75	2.52	2.39	1.400	0.104	7.41	0.00252
3.71	1.35	103.88	-9.64	2.43	1.350	0.104	7.69	-0.00964
3.72	1.2	102.83	-9.37	2.43	1.200	0.103	8.57	-0.00937
3.73	1.21	102.42	-7.21	2.43	1.210	0.102	8.46	-0.00721
3.74	1.19	101.3	-6.49	2.43	1.190	0.101	8.51	-0.00649
3.75	1.14	100.06	-6.13	2.48	1.140	0.100	8.78	-0.00613
3.76	1.08	100.38	-6.76	2.48	1.080	0.100	9.29	-0.00676
3.77	1.05	100.28	-5.14	2.48	1.050	0.100	9.55	-0.00514
3.78	0.98	98.95	-10.72	2.48	0.980	0.099	10.10	-0.01072
3.79	0.88	96.94	-22.35	2.48	0.880	0.097	11.02	-0.02235
3.8	0.88	96.94	-22.35	2.48	0.880	0.097	11.02	-0.02235
3.81	0.91	93.63	-5.32	2.42	0.910	0.094	10.29	-0.00532
3.82	0.97	90.86	-10.9	2.42	0.970	0.091	9.37	-0.0109
3.83	1.02	90.38	-2.43	2.42	1.020	0.090	8.86	-0.00243
3.84	0.9	90.12	2.79	2.47	0.900	0.090	10.01	0.00279
3.85	0.88	87	-17.75	2.47	0.880	0.087	9.89	-0.01775
3.86	1.05	82.64	-25.5	2.47	1.050	0.083	7.87	-0.0255
3.87	1.2	79.93	-30.19	2.47	1.200	0.080	6.66	-0.03019
3.88	1.06	76.84	-38.02	2.47	1.060	0.077	7.25	-0.03802
3.89	1.2	76.11	-3.51	2.41	1.200	0.076	6.34	-0.00351
3.9	1.29	73.69	-8.83	2.41	1.290	0.074	5.71	-0.00883
3.91	1.29	73.69	-8.83	2.41	1.290	0.074	5.71	-0.00883
3.92	1.29	73.69	-8.83	2.41	1.290	0.074	5.71	-0.00883
3.93	1.2	74.65	-5.14	2.36	1.200	0.075	6.22	-0.00514
3.94	1.29	73.09	-4.23	2.36	1.290	0.073	5.67	-0.00423
3.95	1.35	72.32	-2.16	2.36	1.350	0.072	5.36	-0.00216
3.96	1.38	72.32	-0.09	2.36	1.380	0.072	5.24	-0.00009
3.97	1.4	73.34	2.88	2.36	1.400	0.073	5.24	0.00288
3.98	1.47	74.14	3.42	2.36	1.470	0.074	5.04	0.00342
3.99	1.47	74.14	3.42	2.36	1.470	0.074	5.04	0.00342

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4	1.5	75.28	8.2	2.36	1.500	0.075	5.02	0.0082
4.01	1.5	76.75	8.83	2.36	1.500	0.077	5.12	0.00883
4.02	1.51	77.74	9.64	2.36	1.510	0.078	5.15	0.00964
4.03	1.54	77.7	10.81	2.36	1.540	0.078	5.05	0.01081
4.04	1.59	80.16	12.07	2.36	1.590	0.080	5.04	0.01207
4.05	1.65	83.95	16.04	2.36	1.650	0.084	5.09	0.01604
4.06	1.71	88.31	17.84	2.36	1.710	0.088	5.16	0.01784
4.07	1.74	93.21	20.36	2.36	1.740	0.093	5.36	0.02036
4.08	1.74	97.19	24.96	2.36	1.740	0.097	5.59	0.02496
4.09	1.74	97.19	24.96	2.36	1.740	0.097	5.59	0.02496
4.1	1.77	99.81	24.69	2.36	1.770	0.100	5.64	0.02469
4.11	1.81	101.46	24.33	2.36	1.810	0.101	5.61	0.02433
4.12	1.81	103.53	24.42	2.36	1.810	0.104	5.72	0.02442
4.13	1.82	104.71	24.69	2.36	1.820	0.105	5.75	0.02469
4.14	1.83	105.63	24.6	2.36	1.830	0.106	5.77	0.0246
4.15	1.81	107.45	24.51	2.36	1.810	0.107	5.94	0.02451
4.16	1.77	108.02	24.87	2.36	1.770	0.108	6.10	0.02487
4.17	1.75	107.32	24.78	2.32	1.750	0.107	6.13	0.02478
4.18	1.74	105.44	24.42	2.32	1.740	0.105	6.06	0.02442
4.19	1.72	103.98	24.15	2.32	1.720	0.104	6.05	0.02415
4.2	1.69	102.93	23.88	2.32	1.690	0.103	6.09	0.02388
4.21	1.66	103.21	23.61	2.32	1.660	0.103	6.22	0.02361
4.22	1.62	106.05	23.34	2.32	1.620	0.106	6.55	0.02334
4.23	1.57	108.6	23.43	2.32	1.570	0.109	6.92	0.02343
4.24	1.54	109.77	24.33	2.32	1.540	0.110	7.13	0.02433
4.25	1.51	109.84	24.24	2.32	1.510	0.110	7.27	0.02424
4.26	1.47	109.1	24.51	2.32	1.470	0.109	7.42	0.02451
4.27	1.42	107.83	24.69	2.32	1.420	0.108	7.59	0.02469
4.28	1.37	107.13	24.69	2.32	1.370	0.107	7.82	0.02469
4.29	1.34	106.02	24.6	2.32	1.340	0.106	7.91	0.0246
4.3	1.35	104.58	24.6	2.32	1.350	0.105	7.75	0.0246
4.31	1.37	103.53	24.78	2.27	1.370	0.104	7.56	0.02478
4.32	1.36	102.48	24.78	2.32	1.360	0.102	7.54	0.02478
4.33	1.34	100.22	24.6	2.27	1.340	0.100	7.48	0.0246
4.34	1.34	100.22	24.6	2.27	1.340	0.100	7.48	0.0246
4.35	1.3	97.51	24.6	2.27	1.300	0.098	7.50	0.0246
4.36	1.26	94.07	24.6	2.27	1.260	0.094	7.47	0.0246
4.37	1.21	90.09	24.33	2.27	1.210	0.090	7.45	0.02433
4.38	1.14	86.72	24.06	2.27	1.140	0.087	7.61	0.02406
4.39	1.09	84.11	23.7	2.27	1.090	0.084	7.72	0.0237
4.4	1.03	82.16	23.43	2.27	1.030	0.082	7.98	0.02343
4.41	0.98	80.35	23.07	2.32	0.980	0.080	8.20	0.02307
4.42	0.91	78.98	22.89	2.27	0.910	0.079	8.68	0.02289
4.43	0.87	77.58	22.62	2.27	0.870	0.078	8.92	0.02262
4.44	0.83	75.06	22.35	2.32	0.830	0.075	9.04	0.02235
4.45	0.8	73.15	22.17	2.32	0.800	0.073	9.14	0.02217
4.46	0.78	71.49	21.99	2.32	0.780	0.071	9.17	0.02199
4.47	0.76	70.19	21.9	2.32	0.760	0.070	9.24	0.0219
4.48	0.74	68.88	21.81	2.32	0.740	0.069	9.31	0.02181
4.49	0.74	67.55	21.72	2.32	0.740	0.068	9.13	0.02172
4.5	0.74	65	21.81	2.32	0.740	0.065	8.78	0.02181
4.51	0.74	63.18	21.81	2.32	0.740	0.063	8.54	0.02181
4.52	0.76	61.88	21.72	2.32	0.760	0.062	8.14	0.02172
4.53	0.79	60.79	21.63	2.32	0.790	0.061	7.69	0.02163
4.54	0.82	59.36	21.54	2.32	0.820	0.059	7.24	0.02154
4.55	0.85	57.45	21.54	2.32	0.850	0.057	6.76	0.02154
4.56	0.85	57.45	21.54	2.32	0.850	0.057	6.76	0.02154

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4.57	0.84	56.02	21.36	2.32	0.840	0.056	6.67	0.02136
4.58	0.8	55.28	21.17	2.32	0.800	0.055	6.91	0.02117
4.59	0.76	54.81	20.99	2.32	0.760	0.055	7.21	0.02099
4.6	0.72	54.11	20.81	2.32	0.720	0.054	7.52	0.02081
4.61	0.7	53.09	20.63	2.32	0.700	0.053	7.58	0.02063
4.62	0.68	53.02	20.45	2.32	0.680	0.053	7.80	0.02045
4.63	0.65	53.37	20.36	2.32	0.650	0.053	8.21	0.02036
4.64	0.63	53.6	20.18	2.27	0.630	0.054	8.51	0.02018
4.65	0.61	52.99	20.09	2.27	0.610	0.053	8.69	0.02009
4.66	0.59	51.72	20.09	2.27	0.590	0.052	8.77	0.02009
4.67	0.59	50.51	19.91	2.27	0.590	0.051	8.56	0.01991
4.68	0.58	49.55	19.82	2.27	0.580	0.050	8.54	0.01982
4.69	0.57	48.53	19.64	2.27	0.570	0.049	8.51	0.01964
4.7	0.57	48.53	19.64	2.27	0.570	0.049	8.51	0.01964
4.71	0.57	47.64	19.55	2.27	0.570	0.048	8.36	0.01955
4.72	0.57	46.72	19.46	2.27	0.570	0.047	8.20	0.01946
4.73	0.55	45.86	19.28	2.27	0.550	0.046	8.34	0.01928
4.74	0.55	44.36	19.19	2.21	0.550	0.044	8.07	0.01919
4.75	0.54	42.48	19.1	2.21	0.540	0.042	7.87	0.0191
4.76	0.54	40.67	19.1	2.21	0.540	0.041	7.53	0.0191
4.77	0.54	39.55	18.92	2.21	0.540	0.040	7.32	0.01892
4.78	0.55	38.41	18.83	2.21	0.550	0.038	6.98	0.01883
4.79	0.56	38.02	18.92	2.21	0.560	0.038	6.79	0.01892
4.8	0.58	37.45	18.92	2.21	0.580	0.037	6.46	0.01892
4.81	0.59	36.94	18.92	2.17	0.590	0.037	6.26	0.01892
4.82	0.61	36.88	18.92	2.17	0.610	0.037	6.05	0.01892
4.83	0.61	36.91	19.01	2.17	0.610	0.037	6.05	0.01901
4.84	0.63	36.85	19.01	2.17	0.630	0.037	5.85	0.01901
4.85	0.65	36.81	19.01	2.17	0.650	0.037	5.66	0.01901
4.86	0.67	36.75	19.01	2.17	0.670	0.037	5.49	0.01901
4.87	0.69	36.65	18.92	2.17	0.690	0.037	5.31	0.01892
4.88	0.71	36.15	18.74	2.17	0.710	0.036	5.09	0.01874
4.89	0.73	36.3	18.56	2.17	0.730	0.036	4.97	0.01856
4.9	0.73	36.18	18.47	2.17	0.730	0.036	4.96	0.01847
4.91	0.73	36.18	18.47	2.17	0.730	0.036	4.96	0.01847
4.92	0.73	36.18	18.47	2.17	0.730	0.036	4.96	0.01847
4.93	0.7	38.92	20.54	2.13	0.700	0.039	5.56	0.02054
4.94	0.68	39.01	28.92	2.13	0.680	0.039	5.74	0.02892
4.95	0.67	38.31	34.42	2.13	0.670	0.038	5.72	0.03442
4.96	0.65	37.61	38.93	2.13	0.650	0.038	5.79	0.03893
4.97	0.66	36.65	46.4	2.13	0.660	0.037	5.55	0.0464
4.98	0.66	35.99	48.48	2.13	0.660	0.036	5.45	0.04848
4.99	0.66	35.54	64.79	2.13	0.660	0.036	5.38	0.06479
5	0.67	34.74	93.08	2.13	0.670	0.035	5.19	0.09308
5.01	0.69	33.85	127.95	2.13	0.690	0.034	4.91	0.12795
5.02	0.71	32.74	142.19	2.13	0.710	0.033	4.61	0.14219
5.03	0.74	31.18	151.74	2.13	0.740	0.031	4.21	0.15174
5.04	0.76	29.81	151.92	2.13	0.760	0.030	3.92	0.15192
5.05	0.76	29.2	151.11	2.13	0.760	0.029	3.84	0.15111
5.06	0.77	28.79	149.85	2.08	0.770	0.029	3.74	0.14985
5.07	0.78	28.6	148.59	2.08	0.780	0.029	3.67	0.14859
5.08	0.79	29.04	147.59	2.08	0.790	0.029	3.68	0.14759
5.09	0.79	29.04	147.59	2.08	0.790	0.029	3.68	0.14759
5.1	0.8	29.97	146.6	2.08	0.800	0.030	3.75	0.1466
5.11	0.81	30.86	145.88	2.08	0.810	0.031	3.81	0.14588
5.12	0.82	31.97	145.16	2.08	0.820	0.032	3.90	0.14516
5.13	0.82	33.57	144.26	2.02	0.820	0.034	4.09	0.14426

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.14	0.8	35.19	143.27	2.08	0.800	0.035	4.40	0.14327
5.15	0.79	37.1	142.55	2.07	0.790	0.037	4.70	0.14255
5.16	0.8	38.6	141.92	2.08	0.800	0.039	4.83	0.14192
5.17	0.81	39.9	141.83	2.13	0.810	0.040	4.93	0.14183
5.18	0.82	41.53	142.73	2.07	0.820	0.042	5.06	0.14273
5.19	0.82	42.8	143.09	2.07	0.820	0.043	5.22	0.14309
5.2	0.83	43.66	142.91	2.02	0.830	0.044	5.26	0.14291
5.21	0.85	44.04	142.01	2.02	0.850	0.044	5.18	0.14201
5.22	0.86	44.27	141.29	2.02	0.860	0.044	5.15	0.14129
5.23	0.84	44.84	140.57	2.08	0.840	0.045	5.34	0.14057
5.24	0.81	45.38	139.94	2.08	0.810	0.045	5.60	0.13994
5.25	0.79	45.29	139.03	2.08	0.790	0.045	5.73	0.13903
5.26	0.78	44.43	138.04	2.02	0.780	0.044	5.70	0.13804
5.27	0.78	44.43	138.04	2.02	0.780	0.044	5.70	0.13804
5.28	0.76	44.55	137.05	2.08	0.760	0.045	5.86	0.13705
5.29	0.72	45.22	135.88	2.02	0.720	0.045	6.28	0.13588
5.3	0.69	45.73	134.8	2.02	0.690	0.046	6.63	0.1348
5.31	0.66	46.15	133.72	2.02	0.660	0.046	6.99	0.13372
5.32	0.63	46.59	132.91	2.02	0.630	0.047	7.40	0.13291
5.33	0.62	47.2	132.28	2.02	0.620	0.047	7.61	0.13228
5.34	0.61	47.61	131.65	2.02	0.610	0.048	7.80	0.13165
5.35	0.61	48.09	131.19	1.98	0.610	0.048	7.88	0.13119
5.36	0.62	48.37	130.83	2.02	0.620	0.048	7.80	0.13083
5.37	0.62	48.06	130.83	2.02	0.620	0.048	7.75	0.13083
5.38	0.63	47.61	131.01	2.02	0.630	0.048	7.56	0.13101
5.39	0.62	47.48	132.28	2.02	0.620	0.047	7.66	0.13228
5.4	0.62	46.72	133.72	1.98	0.620	0.047	7.54	0.13372
5.41	0.62	45.29	134.62	1.98	0.620	0.045	7.30	0.13462
5.42	0.62	43.66	134.26	1.98	0.620	0.044	7.04	0.13426
5.43	0.62	42.13	133.63	1.98	0.620	0.042	6.80	0.13363
5.44	0.63	40.79	133	1.98	0.630	0.041	6.47	0.133
5.45	0.63	40.29	132.28	1.98	0.630	0.040	6.40	0.13228
5.46	0.62	40.22	131.83	1.98	0.620	0.040	6.49	0.13183
5.47	0.62	39.78	131.47	1.98	0.620	0.040	6.42	0.13147
5.48	0.62	38.92	131.28	1.98	0.620	0.039	6.28	0.13128
5.49	0.63	38.31	130.92	1.98	0.630	0.038	6.08	0.13092
5.5	0.63	37.96	130.65	1.92	0.630	0.038	6.03	0.13065
5.51	0.62	37.83	130.38	1.92	0.620	0.038	6.10	0.13038
5.52	0.61	37.71	130.2	1.98	0.610	0.038	6.18	0.1302
5.53	0.6	37.99	129.66	1.92	0.600	0.038	6.33	0.12966
5.54	0.59	37.93	129.21	1.92	0.590	0.038	6.43	0.12921
5.55	0.59	37.93	129.21	1.92	0.590	0.038	6.43	0.12921
5.56	0.59	38.28	128.76	1.92	0.590	0.038	6.49	0.12876
5.57	0.58	37.87	128.13	1.92	0.580	0.038	6.53	0.12813
5.58	0.57	37.01	127.77	1.92	0.570	0.037	6.49	0.12777
5.59	0.57	35.76	127.59	1.92	0.570	0.036	6.27	0.12759
5.6	0.58	34.9	127.32	1.92	0.580	0.035	6.02	0.12732
5.61	0.59	34.46	127.14	1.92	0.590	0.034	5.84	0.12714
5.62	0.59	34.33	127.05	1.92	0.590	0.034	5.82	0.12705
5.63	0.59	34.3	126.96	1.92	0.590	0.034	5.81	0.12696
5.64	0.6	34.62	127.05	1.92	0.600	0.035	5.77	0.12705
5.65	0.6	34.65	127.14	1.92	0.600	0.035	5.78	0.12714
5.66	0.61	33.73	127.05	1.92	0.610	0.034	5.53	0.12705
5.67	0.61	32.64	127.05	1.92	0.610	0.033	5.35	0.12705
5.68	0.61	31.62	126.78	1.92	0.610	0.032	5.18	0.12678
5.69	0.61	30.67	126.42	1.92	0.610	0.031	5.03	0.12642
5.7	0.6	30.41	127.23	1.88	0.600	0.030	5.07	0.12723

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.71	0.59	30.03	127.05	1.88	0.590	0.030	5.09	0.12705
5.72	0.58	28.76	126.6	1.88	0.580	0.029	4.96	0.1266
5.73	0.58	27.9	126.33	1.88	0.580	0.028	4.81	0.12633
5.74	0.58	27.55	125.88	1.88	0.580	0.028	4.75	0.12588
5.75	0.57	27.67	125.25	1.88	0.570	0.028	4.85	0.12525
5.76	0.57	27.67	125.25	1.88	0.570	0.028	4.85	0.12525
5.77	0.54	27.96	124.53	1.88	0.540	0.028	5.18	0.12453
5.78	0.53	27.9	123.99	1.88	0.530	0.028	5.26	0.12399
5.79	0.52	27.87	123.45	1.88	0.520	0.028	5.36	0.12345
5.8	0.51	29.01	122.81	1.88	0.510	0.029	5.69	0.12281
5.81	0.5	30	122.45	1.88	0.500	0.030	6.00	0.12245
5.82	0.49	30.57	122.18	1.88	0.490	0.031	6.24	0.12218
5.83	0.48	30.54	121.73	1.88	0.480	0.031	6.36	0.12173
5.84	0.46	30.51	121.19	1.88	0.460	0.031	6.63	0.12119
5.85	0.45	30.67	120.83	1.88	0.450	0.031	6.82	0.12083
5.86	0.45	30.16	120.56	1.88	0.450	0.030	6.70	0.12056
5.87	0.46	29.11	120.2	1.88	0.460	0.029	6.33	0.1202
5.88	0.45	28.41	120.11	1.85	0.450	0.028	6.31	0.12011
5.89	0.46	27.55	119.93	1.85	0.460	0.028	5.99	0.11993
5.9	0.46	27.07	119.93	1.85	0.460	0.027	5.88	0.11993
5.91	0.46	27.07	119.93	1.85	0.460	0.027	5.88	0.11993
5.92	0.46	27.07	119.93	1.85	0.460	0.027	5.88	0.11993
5.93	0.53	21.24	107.14	1.85	0.530	0.021	4.01	0.10714
5.94	0.55	21.05	118.85	1.81	0.550	0.021	3.83	0.11885
5.95	0.59	20.06	129.57	1.85	0.590	0.020	3.40	0.12957
5.96	0.62	19.62	134.44	1.85	0.620	0.020	3.16	0.13444
5.97	0.62	19.62	139.03	1.81	0.620	0.020	3.16	0.13903
5.98	0.62	19.46	139.12	1.81	0.620	0.019	3.14	0.13912
5.99	0.63	19.11	142.28	1.75	0.630	0.019	3.03	0.14228
6	0.62	19.46	143.18	1.75	0.620	0.019	3.14	0.14318
6.01	0.62	20.25	143.63	1.75	0.620	0.020	3.27	0.14363
6.02	0.62	21.34	145.25	1.75	0.620	0.021	3.44	0.14525
6.03	0.63	22.48	147.23	1.75	0.630	0.022	3.57	0.14723
6.04	0.65	23.73	148.68	1.75	0.650	0.024	3.65	0.14868
6.05	0.68	24.01	149.31	1.75	0.680	0.024	3.53	0.14931
6.06	0.68	24.01	149.31	1.75	0.680	0.024	3.53	0.14931
6.07	0.7	24.04	149.76	1.75	0.700	0.024	3.43	0.14976
6.08	0.72	24.2	150.21	1.75	0.720	0.024	3.36	0.15021
6.09	0.73	25.03	150.66	1.75	0.730	0.025	3.43	0.15066
6.1	0.73	25.83	150.66	1.78	0.730	0.026	3.54	0.15066
6.11	0.74	26.34	150.84	1.78	0.740	0.026	3.56	0.15084
6.12	0.75	26.97	151.11	1.75	0.750	0.027	3.60	0.15111
6.13	0.77	27.64	151.56	1.78	0.770	0.028	3.59	0.15156
6.14	0.76	28.31	152.1	1.78	0.760	0.028	3.73	0.1521
6.15	0.77	29.14	153.09	1.78	0.770	0.029	3.78	0.15309
6.16	0.77	29.78	152.82	1.78	0.770	0.030	3.87	0.15282
6.17	0.76	30.8	152.73	1.78	0.760	0.031	4.05	0.15273
6.18	0.76	32.39	153	1.75	0.760	0.032	4.26	0.153
6.19	0.76	33.88	153	1.75	0.760	0.034	4.46	0.153
6.2	0.77	34.94	153.18	1.75	0.770	0.035	4.54	0.15318
6.21	0.77	35.92	153.18	1.75	0.770	0.036	4.66	0.15318
6.22	0.78	37.32	153.45	1.75	0.780	0.037	4.78	0.15345
6.23	0.79	38.76	154.35	1.75	0.790	0.039	4.91	0.15435
6.24	0.8	40.44	154.71	1.75	0.800	0.040	5.06	0.15471
6.25	0.8	41.46	154.53	1.75	0.800	0.041	5.18	0.15453
6.26	0.81	42.07	155.34	1.75	0.810	0.042	5.19	0.15534
6.27	0.82	42.9	155.43	1.75	0.820	0.043	5.23	0.15543

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.28	0.82	43.53	154.98	1.75	0.820	0.044	5.31	0.15498
6.29	0.82	44.58	154.98	1.75	0.820	0.045	5.44	0.15498
6.3	0.82	45.73	155.43	1.75	0.820	0.046	5.58	0.15543
6.31	0.81	46.85	155.61	1.75	0.810	0.047	5.78	0.15561
6.32	0.82	47.29	155.88	1.75	0.820	0.047	5.77	0.15588
6.33	0.83	47.23	155.7	1.75	0.830	0.047	5.69	0.1557
6.34	0.86	47.42	155.52	1.75	0.860	0.047	5.51	0.15552
6.35	0.87	48.6	155.52	1.75	0.870	0.049	5.59	0.15552
6.36	0.87	49.9	155.43	1.75	0.870	0.050	5.74	0.15543
6.37	0.87	51.3	155.43	1.75	0.870	0.051	5.90	0.15543
6.38	0.87	51.3	155.43	1.75	0.870	0.051	5.90	0.15543
6.39	0.89	51.97	156.15	1.75	0.890	0.052	5.84	0.15615
6.4	0.89	52.64	156.33	1.75	0.890	0.053	5.91	0.15633
6.41	0.88	53.95	158.23	1.75	0.880	0.054	6.13	0.15823
6.42	0.87	55.28	158.86	1.72	0.870	0.055	6.35	0.15886
6.43	0.87	55.57	158.68	1.75	0.870	0.056	6.39	0.15868
6.44	0.88	55.09	158.5	1.72	0.880	0.055	6.26	0.1585
6.45	0.88	54.74	158.32	1.72	0.880	0.055	6.22	0.15832
6.46	0.89	54.43	158.32	1.72	0.890	0.054	6.12	0.15832
6.47	0.91	53.92	158.41	1.72	0.910	0.054	5.93	0.15841
6.48	0.92	53.79	159.13	1.72	0.920	0.054	5.85	0.15913
6.49	0.92	54.23	160.39	1.72	0.920	0.054	5.89	0.16039
6.5	0.93	53.88	160.66	1.72	0.930	0.054	5.79	0.16066
6.51	0.96	52.16	160.57	1.72	0.960	0.052	5.43	0.16057
6.52	0.96	51.3	161.38	1.72	0.960	0.051	5.34	0.16138
6.53	0.94	50.44	161.29	1.72	0.940	0.050	5.37	0.16129
6.54	0.94	48.34	161.02	1.72	0.940	0.048	5.14	0.16102
6.55	0.96	46.5	160.66	1.72	0.960	0.047	4.84	0.16066
6.56	0.97	46.59	161.02	1.72	0.970	0.047	4.80	0.16102
6.57	0.97	47.1	160.39	1.72	0.970	0.047	4.86	0.16039
6.58	0.96	47.67	159.85	1.72	0.960	0.048	4.97	0.15985
6.59	0.93	48.69	159.49	1.72	0.930	0.049	5.24	0.15949
6.6	0.93	48.69	159.49	1.72	0.930	0.049	5.24	0.15949
6.61	0.92	48.85	159.13	1.72	0.920	0.049	5.31	0.15913
6.62	0.9	48.82	158.41	1.72	0.900	0.049	5.42	0.15841
6.63	0.88	48.85	157.87	1.72	0.880	0.049	5.55	0.15787
6.64	0.86	49.14	157.42	1.72	0.860	0.049	5.71	0.15742
6.65	0.85	49.27	156.97	1.69	0.850	0.049	5.80	0.15697
6.66	0.85	48.72	156.51	1.69	0.850	0.049	5.73	0.15651
6.67	0.85	49.04	156.33	1.69	0.850	0.049	5.77	0.15633
6.68	0.85	49.84	156.24	1.69	0.850	0.050	5.86	0.15624
6.69	0.83	50.41	156.15	1.69	0.830	0.050	6.07	0.15615
6.7	0.81	50.76	156.33	1.69	0.810	0.051	6.27	0.15633
6.71	0.8	50.29	155.97	1.69	0.800	0.050	6.29	0.15597
6.72	0.79	48.5	155.34	1.69	0.790	0.049	6.14	0.15534
6.73	0.77	47	154.62	1.69	0.770	0.047	6.10	0.15462
6.74	0.76	45.6	153.54	1.69	0.760	0.046	6.00	0.15354
6.75	0.73	44.3	152.73	1.69	0.730	0.044	6.07	0.15273
6.76	0.7	42.8	152.1	1.69	0.700	0.043	6.11	0.1521
6.77	0.68	41.34	152.1	1.69	0.680	0.041	6.08	0.1521
6.78	0.66	40.54	152.19	1.69	0.660	0.041	6.14	0.15219
6.79	0.64	39.43	152.46	1.69	0.640	0.039	6.16	0.15246
6.8	0.63	38.37	152.55	1.69	0.630	0.038	6.09	0.15255
6.81	0.63	37.07	152.55	1.69	0.630	0.037	5.88	0.15255
6.82	0.61	35.95	152.37	1.69	0.610	0.036	5.89	0.15237
6.83	0.6	34.78	152.19	1.69	0.600	0.035	5.80	0.15219
6.84	0.6	34.78	152.19	1.69	0.600	0.035	5.80	0.15219

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.85	0.59	33.85	152.01	1.69	0.590	0.034	5.74	0.15201
6.86	0.58	32.36	152.1	1.69	0.580	0.032	5.58	0.1521
6.87	0.58	32.36	152.1	1.69	0.580	0.032	5.58	0.1521
6.88	0.58	31.81	152.64	1.69	0.580	0.032	5.48	0.15264
6.89	0.57	31.46	153.18	1.69	0.570	0.031	5.52	0.15318
6.9	0.57	31.02	153.81	1.69	0.570	0.031	5.44	0.15381
6.91	0.57	31.02	153.81	1.69	0.570	0.031	5.44	0.15381
6.92	0.57	31.02	153.81	1.69	0.570	0.031	5.44	0.15381
6.93	0.56	23.31	179.04	1.66	0.560	0.023	4.16	0.17904
6.94	0.56	22.39	181.65	1.66	0.560	0.022	4.00	0.18165
6.95	0.56	21.21	185.89	1.66	0.560	0.021	3.79	0.18589
6.96	0.56	20.29	192.74	1.66	0.560	0.020	3.62	0.19274
6.97	0.57	19.43	204.36	1.66	0.570	0.019	3.41	0.20436
6.98	0.57	18.95	211.39	1.66	0.570	0.019	3.32	0.21139
6.99	0.57	18.79	215.98	1.66	0.570	0.019	3.30	0.21598
7	0.57	18.57	220.04	1.66	0.570	0.019	3.26	0.22004
7.01	0.57	18.34	221.03	1.66	0.570	0.018	3.22	0.22103
7.02	0.58	17.8	221.03	1.66	0.580	0.018	3.07	0.22103
7.03	0.59	17.13	220.85	1.66	0.590	0.017	2.90	0.22085
7.04	0.59	17.04	220.85	1.66	0.590	0.017	2.89	0.22085
7.05	0.58	17.07	220.94	1.66	0.580	0.017	2.94	0.22094
7.06	0.58	16.46	221.03	1.66	0.580	0.016	2.84	0.22103
7.07	0.57	16.37	221.66	1.66	0.570	0.016	2.87	0.22166
7.08	0.58	16.34	223.37	1.66	0.580	0.016	2.82	0.22337
7.09	0.58	16.37	224.64	1.66	0.580	0.016	2.82	0.22464
7.1	0.58	16.53	225.72	1.66	0.580	0.017	2.85	0.22572
7.11	0.6	16.05	227.88	1.66	0.600	0.016	2.68	0.22788
7.12	0.6	16.05	227.88	1.66	0.600	0.016	2.68	0.22788
7.13	0.62	15.32	230.31	1.66	0.620	0.015	2.47	0.23031
7.14	0.65	14.94	232.83	1.66	0.650	0.015	2.30	0.23283
7.15	0.69	14.55	234.46	1.66	0.690	0.015	2.11	0.23446
7.16	0.72	14.49	236.53	1.64	0.720	0.014	2.01	0.23653
7.17	0.74	14.59	237.88	1.66	0.740	0.015	1.97	0.23788
7.18	0.76	14.71	239.23	1.64	0.760	0.015	1.94	0.23923
7.19	0.77	14.94	241.58	1.71	0.770	0.015	1.94	0.24158
7.2	0.79	15.25	243.56	1.71	0.790	0.015	1.93	0.24356
7.21	0.81	15.76	245.9	1.71	0.810	0.016	1.95	0.2459
7.22	0.83	16.34	249.86	1.71	0.830	0.016	1.97	0.24986
7.23	0.85	17.29	253.47	1.71	0.850	0.017	2.03	0.25347
7.24	0.88	18.12	256.53	1.71	0.880	0.018	2.06	0.25653
7.25	0.91	19.36	258.7	1.71	0.910	0.019	2.13	0.2587
7.26	0.93	21.08	260.14	1.71	0.930	0.021	2.27	0.26014
7.27	0.98	22.55	260.95	1.71	0.980	0.023	2.30	0.26095
7.28	1.01	24.36	261.94	1.71	1.010	0.024	2.41	0.26194
7.29	1.03	26.72	264.01	1.71	1.030	0.027	2.59	0.26401
7.3	1.04	28.92	265.09	1.71	1.040	0.029	2.78	0.26509
7.31	1.05	31.02	265.63	1.71	1.050	0.031	2.95	0.26563
7.32	1.06	33.22	268.43	1.71	1.060	0.033	3.13	0.26843
7.33	1.08	35.32	269.24	1.71	1.080	0.035	3.27	0.26924
7.34	1.08	35.32	269.24	1.71	1.080	0.035	3.27	0.26924
7.35	1.11	36.27	270.14	1.71	1.110	0.036	3.27	0.27014
7.36	1.13	38.02	271.22	1.71	1.130	0.038	3.36	0.27122
7.37	1.13	40.09	271.04	1.71	1.130	0.040	3.55	0.27104
7.38	1.13	42.23	270.23	1.71	1.130	0.042	3.74	0.27023
7.39	1.12	44.68	269.87	1.71	1.120	0.045	3.99	0.26987
7.4	1.12	47.48	270.23	1.71	1.120	0.047	4.24	0.27023
7.41	1.11	50.32	269.96	1.71	1.110	0.050	4.53	0.26996

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.42	1.1	52.1	270.05	1.71	1.100	0.052	4.74	0.27005
7.43	1.1	53.98	271.94	1.71	1.100	0.054	4.91	0.27194
7.44	1.08	55.95	274.64	1.71	1.080	0.056	5.18	0.27464
7.45	1.06	57.23	275.36	1.71	1.060	0.057	5.40	0.27536
7.46	1.07	57.32	275.73	1.71	1.070	0.057	5.36	0.27573
7.47	1.08	57.29	276.09	1.71	1.080	0.057	5.30	0.27609
7.48	1.1	57.04	275.46	1.71	1.100	0.057	5.19	0.27546
7.49	1.12	56.46	275.27	1.71	1.120	0.056	5.04	0.27527
7.5	1.13	55.86	274.73	1.71	1.130	0.056	4.94	0.27473
7.51	1.15	55.86	274.73	1.69	1.150	0.056	4.86	0.27473
7.52	1.16	55.89	274.73	1.71	1.160	0.056	4.82	0.27473
7.53	1.17	56.05	274.82	1.71	1.170	0.056	4.79	0.27482
7.54	1.19	56.34	274.82	1.71	1.190	0.056	4.73	0.27482
7.55	1.19	56.34	274.82	1.71	1.190	0.056	4.73	0.27482
7.56	1.21	56.62	274.91	1.71	1.210	0.057	4.68	0.27491
7.57	1.22	57.13	274.91	1.69	1.220	0.057	4.68	0.27491
7.58	1.22	59.14	274.82	1.69	1.220	0.059	4.85	0.27482
7.59	1.22	61.62	275	1.71	1.220	0.062	5.05	0.275
7.6	1.22	63.85	274.91	1.71	1.220	0.064	5.23	0.27491
7.61	1.23	65.73	274.55	1.69	1.230	0.066	5.34	0.27455
7.62	1.24	67.7	274.19	1.71	1.240	0.068	5.46	0.27419
7.63	1.27	69.23	275.09	1.71	1.270	0.069	5.45	0.27509
7.64	1.28	71.46	277.17	1.71	1.280	0.071	5.58	0.27717
7.65	1.3	73.09	277.8	1.73	1.300	0.073	5.62	0.2778
7.66	1.32	74.84	280.41	1.71	1.320	0.075	5.67	0.28041
7.67	1.32	76.27	281.22	1.71	1.320	0.076	5.78	0.28122
7.68	1.33	76.65	282.66	1.78	1.330	0.077	5.76	0.28266
7.69	1.3	77.67	283.29	1.71	1.300	0.078	5.97	0.28329
7.7	1.26	79.2	281.31	1.71	1.260	0.079	6.29	0.28131
7.71	1.24	79.39	282.3	1.71	1.240	0.079	6.40	0.2823
7.72	1.24	79.11	282.3	1.78	1.240	0.079	6.38	0.2823
7.73	1.26	78.76	282.3	1.71	1.260	0.079	6.25	0.2823
7.74	1.27	78.76	284.2	1.71	1.270	0.079	6.20	0.2842
7.75	1.29	78.6	287.89	1.78	1.290	0.079	6.09	0.28789
7.76	1.32	78.79	292.21	1.71	1.320	0.079	5.97	0.29221
7.77	1.35	78.63	293.84	1.71	1.350	0.079	5.82	0.29384
7.78	1.36	79.36	300.14	1.71	1.360	0.079	5.84	0.30014
7.79	1.36	80.25	306.72	1.71	1.360	0.080	5.90	0.30672
7.8	1.36	81.43	307.98	1.71	1.360	0.081	5.99	0.30798
7.81	1.38	81.33	307.89	1.78	1.380	0.081	5.89	0.30789
7.82	1.42	79.97	306.99	1.71	1.420	0.080	5.63	0.30699
7.83	1.45	79.14	305.91	1.71	1.450	0.079	5.46	0.30591
7.84	1.45	79.42	305.19	1.71	1.450	0.079	5.48	0.30519
7.85	1.47	79.84	305.46	1.71	1.470	0.080	5.43	0.30546
7.86	1.45	80.89	304.2	1.71	1.450	0.081	5.58	0.3042
7.87	1.44	82.8	304.47	1.71	1.440	0.083	5.75	0.30447
7.88	1.43	82.64	306.27	1.71	1.430	0.083	5.78	0.30627
7.89	1.44	82.8	310.51	1.71	1.440	0.083	5.75	0.31051
7.9	1.44	82.8	310.51	1.71	1.440	0.083	5.75	0.31051
7.91	1.44	82.8	310.51	1.71	1.440	0.083	5.75	0.31051
7.92	1.49	90.63	260.05	1.62	1.490	0.091	6.08	0.26005
7.93	1.49	92.1	259.78	1.62	1.490	0.092	6.18	0.25978
7.94	1.45	91.84	256.98	1.62	1.450	0.092	6.33	0.25698
7.95	1.46	92.77	264.37	1.62	1.460	0.093	6.35	0.26437
7.96	1.48	93.02	267.17	1.62	1.480	0.093	6.29	0.26717
7.97	1.48	93.6	269.15	1.62	1.480	0.094	6.32	0.26915
7.98	1.4	92.86	269.96	1.62	1.400	0.093	6.63	0.26996

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.99	1.38	93.05	270.5	1.62	1.380	0.093	6.74	0.2705
8	1.36	91.46	270.23	1.62	1.360	0.091	6.73	0.27023
8.01	1.34	90.03	270.23	1.62	1.340	0.090	6.72	0.27023
8.02	1.32	89.33	269.78	1.62	1.320	0.089	6.77	0.26978
8.03	1.32	89.33	269.78	1.62	1.320	0.089	6.77	0.26978
8.04	1.3	87.93	268.79	1.62	1.300	0.088	6.76	0.26879
8.05	1.25	85.09	267.71	1.62	1.250	0.085	6.81	0.26771
8.06	1.23	83.53	268.34	1.62	1.230	0.084	6.79	0.26834
8.07	1.22	81.3	268.88	1.62	1.220	0.081	6.66	0.26888
8.08	1.2	80.28	269.15	1.62	1.200	0.080	6.69	0.26915
8.09	1.17	79.33	267.98	1.62	1.170	0.079	6.78	0.26798
8.1	1.16	78.09	266.89	1.62	1.160	0.078	6.73	0.26689
8.11	1.18	77.16	267.35	1.62	1.180	0.077	6.54	0.26735
8.12	1.2	76.94	267.89	1.62	1.200	0.077	6.41	0.26789
8.13	1.18	75.98	268.25	1.62	1.180	0.076	6.44	0.26825
8.14	1.16	76.69	267.98	1.62	1.160	0.077	6.61	0.26798
8.15	1.12	77.74	268.07	1.62	1.120	0.078	6.94	0.26807
8.16	1.09	78.15	269.33	1.62	1.090	0.078	7.17	0.26933
8.17	1.05	77.96	268.25	1.62	1.050	0.078	7.42	0.26825
8.18	1.02	77.13	266.53	1.62	1.020	0.077	7.56	0.26653
8.19	1.01	74.9	264.37	1.62	1.010	0.075	7.42	0.26437
8.2	1	73.5	262.66	1.62	1.000	0.074	7.35	0.26266
8.21	0.99	73.15	261.31	1.62	0.990	0.073	7.39	0.26131
8.22	0.96	72.23	259.15	1.62	0.960	0.072	7.52	0.25915
8.23	0.93	71.05	256.44	1.62	0.930	0.071	7.64	0.25644
8.24	0.9	68.72	253.38	1.62	0.900	0.069	7.64	0.25338
8.25	0.88	67.45	251.94	1.62	0.880	0.067	7.66	0.25194
8.26	0.88	67.45	251.94	1.62	0.880	0.067	7.66	0.25194
8.27	0.86	66.53	251.22	1.62	0.860	0.067	7.74	0.25122
8.28	0.83	64.78	250.5	1.62	0.830	0.065	7.80	0.2505
8.29	0.81	63.6	249.5	1.62	0.810	0.064	7.85	0.2495
8.3	0.79	62.39	251.22	1.62	0.790	0.062	7.90	0.25122
8.31	0.79	61.08	251.4	1.62	0.790	0.061	7.73	0.2514
8.32	0.76	60.19	250.41	1.62	0.760	0.060	7.92	0.25041
8.33	0.73	58.85	249.59	1.62	0.730	0.059	8.06	0.24959
8.34	0.72	56.43	248.87	1.62	0.720	0.056	7.84	0.24887
8.35	0.71	52.07	248.6	1.62	0.710	0.052	7.33	0.2486
8.36	0.74	47.67	248.6	1.55	0.740	0.048	6.44	0.2486
8.37	0.75	43.95	248.96	1.57	0.750	0.044	5.86	0.24896
8.38	0.75	40.51	250.86	1.62	0.750	0.041	5.40	0.25086
8.39	0.76	36.78	252.84	1.62	0.760	0.037	4.84	0.25284
8.4	0.77	33.06	253.74	1.64	0.770	0.033	4.29	0.25374
8.41	0.78	29.84	253.65	1.57	0.780	0.030	3.83	0.25365
8.42	0.79	26.62	252.84	1.64	0.790	0.027	3.37	0.25284
8.43	0.77	23.98	252.3	1.62	0.770	0.024	3.11	0.2523
8.44	0.76	21.59	252.03	1.62	0.760	0.022	2.84	0.25203
8.45	0.75	19.55	251.85	1.62	0.750	0.020	2.61	0.25185
8.46	0.75	17.61	252.3	1.62	0.750	0.018	2.35	0.2523
8.47	0.75	15.86	252.39	1.62	0.750	0.016	2.11	0.25239
8.48	0.74	14.62	252.21	1.62	0.740	0.015	1.98	0.25221
8.49	0.75	13.63	252.21	1.62	0.750	0.014	1.82	0.25221
8.5	0.75	13.03	251.58	1.62	0.750	0.013	1.74	0.25158
8.51	0.74	12.71	250.23	1.62	0.740	0.013	1.72	0.25023
8.52	0.73	12.48	249.32	1.62	0.730	0.012	1.71	0.24932
8.53	0.71	12.36	248.87	1.62	0.710	0.012	1.74	0.24887
8.54	0.72	12.13	249.32	1.55	0.720	0.012	1.68	0.24932
8.55	0.72	12.26	250.05	1.62	0.720	0.012	1.70	0.25005

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
8.56	0.72	12.01	250.5	1.62	0.720	0.012	1.67	0.2505
8.57	0.72	12.01	250.5	1.62	0.720	0.012	1.67	0.2505
8.58	0.72	11.46	250.68	1.62	0.720	0.011	1.59	0.25068
8.59	0.72	10.32	251.31	1.62	0.720	0.010	1.43	0.25131
8.6	0.73	9.46	252.21	1.62	0.730	0.009	1.30	0.25221
8.61	0.78	9.24	254.46	1.62	0.780	0.009	1.18	0.25446
8.62	0.86	9.46	259.06	1.62	0.860	0.009	1.10	0.25906
8.63	0.97	9.46	265.27	1.62	0.970	0.009	0.98	0.26527
8.64	1.21	9.62	272.93	1.62	1.210	0.010	0.80	0.27293
8.65	1.6	10.38	283.11	1.62	1.600	0.010	0.65	0.28311
8.66	2.16	12.1	294.74	1.62	2.160	0.012	0.56	0.29474
8.67	2.66	15.54	273.83	1.62	2.660	0.016	0.58	0.27383
8.68	2.96	19.3	145.25	1.62	2.960	0.019	0.65	0.14525
8.69	3.12	24.52	-19.91	1.62	3.120	0.025	0.79	-0.01991
8.7	3.2	24.46	-11.44	1.62	3.200	0.024	0.76	-0.01144
8.71	3.23	24.43	-9.1	1.62	3.230	0.024	0.76	-0.0091
8.72	3.18	23.66	-7.57	1.62	3.180	0.024	0.74	-0.00757
8.73	3.08	22.77	-6.31	1.62	3.080	0.023	0.74	-0.00631
8.74	2.91	22.32	-5.59	1.62	2.910	0.022	0.77	-0.00559
8.75	2.63	21.59	-5.23	1.62	2.630	0.022	0.82	-0.00523
8.76	2.32	22.16	-5.14	1.62	2.320	0.022	0.96	-0.00514
8.77	2.02	25.03	-5.05	1.62	2.020	0.025	1.24	-0.00505
8.78	1.77	28.37	-4.87	1.62	1.770	0.028	1.60	-0.00487
8.79	1.56	30.51	-3.87	1.62	1.560	0.031	1.96	-0.00387
8.8	1.41	32.55	-0.63	1.62	1.410	0.033	2.31	-0.00063
8.81	1.41	32.55	-0.63	1.62	1.410	0.033	2.31	-0.00063
8.82	1.34	33.22	5.77	1.6	1.340	0.033	2.48	0.00577
8.83	1.21	33.37	18.47	1.62	1.210	0.033	2.76	0.01847
8.84	1.12	35.38	32.98	1.6	1.120	0.035	3.16	0.03298
8.85	1.05	35.95	74.7	1.6	1.050	0.036	3.42	0.0747
8.86	1.01	35.89	103.08	1.6	1.010	0.036	3.55	0.10308
8.87	0.99	34.58	117.05	1.6	0.990	0.035	3.49	0.11705
8.88	0.96	33.63	134.35	1.6	0.960	0.034	3.50	0.13435
8.89	0.89	31.11	155.79	1.6	0.890	0.031	3.50	0.15579
8.9	0.89	31.11	155.79	1.6	0.890	0.031	3.50	0.15579
8.91	0.89	31.11	155.79	1.6	0.890	0.031	3.50	0.15579
8.92	1.23	24.94	147.41	1.6	1.230	0.025	2.03	0.14741
8.93	1.29	23.88	169.67	1.6	1.290	0.024	1.85	0.16967
8.94	1.47	23.44	188.59	1.6	1.470	0.023	1.59	0.18859
8.95	1.68	25.86	190.3	1.6	1.680	0.026	1.54	0.1903
8.96	1.82	26.56	95.96	1.6	1.820	0.027	1.46	0.09596
8.97	1.93	28.53	66.77	1.6	1.930	0.029	1.48	0.06677
8.98	2.05	33.79	47.49	1.6	2.050	0.034	1.65	0.04749
8.99	2.11	36.5	43.16	1.6	2.110	0.037	1.73	0.04316
9	2.06	37.9	28.38	1.59	2.060	0.038	1.84	0.02838
9.01	1.92	38.02	15.86	1.59	1.920	0.038	1.98	0.01586
9.02	1.77	36.59	4.14	1.59	1.770	0.037	2.07	0.00414
9.03	1.64	35.44	2.7	1.59	1.640	0.035	2.16	0.0027
9.04	1.54	35.86	17.03	1.59	1.540	0.036	2.33	0.01703
9.05	1.44	36.37	34.78	1.59	1.440	0.036	2.53	0.03478
9.06	1.28	39.04	57.4	1.59	1.280	0.039	3.05	0.0574
9.07	1.23	38.92	88.75	1.59	1.230	0.039	3.16	0.08875
9.08	1.2	37.23	102.18	1.59	1.200	0.037	3.10	0.10218
9.09	1.17	35.54	128.58	1.59	1.170	0.036	3.04	0.12858
9.1	1.17	36.05	137.77	1.59	1.170	0.036	3.08	0.13777
9.11	1.15	35.19	147.05	1.59	1.150	0.035	3.06	0.14705
9.12	1.13	34.81	156.97	1.58	1.130	0.035	3.08	0.15697

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.13	1.13	34.81	156.97	1.58	1.130	0.035	3.08	0.15697
9.14	1.12	32.16	164.71	1.58	1.120	0.032	2.87	0.16471
9.15	1.12	30.64	175.89	1.58	1.120	0.031	2.74	0.17589
9.16	1.12	29.39	187.33	1.58	1.120	0.029	2.62	0.18733
9.17	1.12	29.04	200.67	1.58	1.120	0.029	2.59	0.20067
9.18	1.11	28.69	212.47	1.58	1.110	0.029	2.58	0.21247
9.19	1.11	27.61	223.64	1.58	1.110	0.028	2.49	0.22364
9.2	1.12	25.8	239.32	1.58	1.120	0.026	2.30	0.23932
9.21	1.17	23.57	287.8	1.58	1.170	0.024	2.01	0.2878
9.22	1.25	23.25	384.03	1.58	1.250	0.023	1.86	0.38403
9.23	1.32	23.18	449.36	1.58	1.320	0.023	1.76	0.44936
9.24	1.38	22.2	456.75	1.58	1.380	0.022	1.61	0.45675
9.25	1.41	22.74	459.99	1.58	1.410	0.023	1.61	0.45999
9.26	1.43	23.31	461.61	1.58	1.430	0.023	1.63	0.46161
9.27	1.44	24.36	459.9	1.58	1.440	0.024	1.69	0.4599
9.28	1.41	26.24	459.63	1.58	1.410	0.026	1.86	0.45963
9.29	1.4	27.32	457.56	1.58	1.400	0.027	1.95	0.45756
9.3	1.42	28.82	458.01	1.58	1.420	0.029	2.03	0.45801
9.31	1.45	30.25	453.23	1.58	1.450	0.030	2.09	0.45323
9.32	1.48	32.55	447.11	1.58	1.480	0.033	2.20	0.44711
9.33	1.48	36.34	443.14	1.58	1.480	0.036	2.46	0.44314
9.34	1.5	40.16	441.88	1.58	1.500	0.040	2.68	0.44188
9.35	1.53	43.12	435.21	1.58	1.530	0.043	2.82	0.43521
9.36	1.54	46.4	426.47	1.58	1.540	0.046	3.01	0.42647
9.37	1.52	51.21	413.68	1.58	1.520	0.051	3.37	0.41368
9.38	1.49	55.09	374.75	1.58	1.490	0.055	3.70	0.37475
9.39	1.44	58.18	357.99	1.58	1.440	0.058	4.04	0.35799
9.4	1.39	60.03	351.23	1.58	1.390	0.060	4.32	0.35123
9.41	1.38	61.24	350.24	1.58	1.380	0.061	4.44	0.35024
9.42	1.39	62.61	356.37	1.57	1.390	0.063	4.50	0.35637
9.43	1.42	63.63	365.29	1.57	1.420	0.064	4.48	0.36529
9.44	1.44	65.48	370.79	1.57	1.440	0.065	4.55	0.37079
9.45	1.42	67.26	376.73	1.57	1.420	0.067	4.74	0.37673
9.46	1.38	68.6	384.93	1.57	1.380	0.069	4.97	0.38493
9.47	1.37	67	385.84	1.57	1.370	0.067	4.89	0.38584
9.48	1.37	63.82	382.68	1.57	1.370	0.064	4.66	0.38268
9.49	1.37	63.82	382.68	1.57	1.370	0.064	4.66	0.38268
9.5	1.38	61.46	385.47	1.57	1.380	0.061	4.45	0.38547
9.51	1.39	59.11	386.92	1.57	1.390	0.059	4.25	0.38692
9.52	1.41	56.88	388.54	1.57	1.410	0.057	4.03	0.38854
9.53	1.42	55.6	387.91	1.57	1.420	0.056	3.92	0.38791
9.54	1.4	54.52	382.95	1.57	1.400	0.055	3.89	0.38295
9.55	1.37	53.95	379.98	1.5	1.370	0.054	3.94	0.37998
9.56	1.37	52.61	378.99	1.57	1.370	0.053	3.84	0.37899
9.57	1.37	51.81	380.43	1.57	1.370	0.052	3.78	0.38043
9.58	1.37	51.27	382.86	1.57	1.370	0.051	3.74	0.38286
9.59	1.39	50.67	382.86	1.57	1.390	0.051	3.65	0.38286
9.6	1.39	50.57	381.6	1.57	1.390	0.051	3.64	0.3816
9.61	1.37	52.07	381.51	1.57	1.370	0.052	3.80	0.38151
9.62	1.34	54.3	381.96	1.57	1.340	0.054	4.05	0.38196
9.63	1.34	54.11	379.17	1.57	1.340	0.054	4.04	0.37917
9.64	1.35	53.02	371.78	1.57	1.350	0.053	3.93	0.37178
9.65	1.33	53.72	364.03	1.57	1.330	0.054	4.04	0.36403
9.66	1.29	55.28	359.07	1.57	1.290	0.055	4.29	0.35907
9.67	1.26	56.3	358.17	1.57	1.260	0.056	4.47	0.35817
9.68	1.25	56.14	356.91	1.57	1.250	0.056	4.49	0.35691
9.69	1.24	56.08	357.45	1.57	1.240	0.056	4.52	0.35745

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.7	1.22	56.11	360.06	1.57	1.220	0.056	4.60	0.36006
9.71	1.21	54.81	361.06	1.57	1.210	0.055	4.53	0.36106
9.72	1.22	52.61	364.75	1.57	1.220	0.053	4.31	0.36475
9.73	1.24	50.22	366.1	1.57	1.240	0.050	4.05	0.3661
9.74	1.27	48.72	367.45	1.57	1.270	0.049	3.84	0.36745
9.75	1.27	47.2	364.75	1.57	1.270	0.047	3.72	0.36475
9.76	1.27	46.43	362.32	1.57	1.270	0.046	3.66	0.36232
9.77	1.29	45.79	358.17	1.57	1.290	0.046	3.55	0.35817
9.78	1.3	44.68	353.4	1.57	1.300	0.045	3.44	0.3534
9.79	1.3	44.68	353.4	1.57	1.300	0.045	3.44	0.3534
9.8	1.29	45	348.26	1.57	1.290	0.045	3.49	0.34826
9.81	1.24	45.73	345.92	1.57	1.240	0.046	3.69	0.34592
9.82	1.2	45.89	348.62	1.57	1.200	0.046	3.82	0.34862
9.83	1.18	44.97	352.41	1.57	1.180	0.045	3.81	0.35241
9.84	1.19	43.22	351.41	1.57	1.190	0.043	3.63	0.35141
9.85	1.17	42.99	348.35	1.57	1.170	0.043	3.67	0.34835
9.86	1.14	43.37	344.48	1.57	1.140	0.043	3.80	0.34448
9.87	1.11	43.69	340.69	1.57	1.110	0.044	3.94	0.34069
9.88	1.09	43.44	335.29	1.57	1.090	0.043	3.99	0.33529
9.89	1.07	43.31	330.42	1.57	1.070	0.043	4.05	0.33042
9.9	1.07	43.31	330.42	1.57	1.070	0.043	4.05	0.33042
9.91	1.07	43.31	330.42	1.57	1.070	0.043	4.05	0.33042
9.92	1.09	39.97	350.78	1.57	1.090	0.040	3.67	0.35078
9.93	1.04	39.27	356.01	1.57	1.040	0.039	3.78	0.35601
9.94	1.01	37.93	352.23	1.57	1.010	0.038	3.76	0.35223
9.95	0.99	36.97	349.61	1.57	0.990	0.037	3.73	0.34961
9.96	0.98	36.02	347.36	1.57	0.980	0.036	3.68	0.34736
9.97	0.97	35.25	346.82	1.57	0.970	0.035	3.63	0.34682
9.98	0.94	34.94	349.52	1.5	0.940	0.035	3.72	0.34952
9.99	0.93	33.92	353.76	1.57	0.930	0.034	3.65	0.35376
10	0.91	32.42	358.08	1.57	0.910	0.032	3.56	0.35808
10.01	0.91	31.08	361.96	1.57	0.910	0.031	3.42	0.36196
10.02	0.91	29.08	364.84	1.57	0.910	0.029	3.20	0.36484
10.03	0.9	27.26	365.83	1.57	0.900	0.027	3.03	0.36583
10.04	0.9	25.38	363.94	1.57	0.900	0.025	2.82	0.36394
10.05	0.88	23.47	363.04	1.57	0.880	0.023	2.67	0.36304
10.06	0.87	21.05	367.72	1.57	0.870	0.021	2.42	0.36772
10.07	0.86	19.04	374.39	1.57	0.860	0.019	2.21	0.37439
10.08	0.87	17.48	382.41	1.57	0.870	0.017	2.01	0.38241
10.09	0.86	15.86	388.09	1.57	0.860	0.016	1.84	0.38809
10.1	0.86	14.55	396.29	1.57	0.860	0.015	1.69	0.39629
10.11	0.88	13.66	404.76	1.57	0.880	0.014	1.55	0.40476
10.12	0.89	12.77	411.07	1.57	0.890	0.013	1.43	0.41107
10.13	0.91	11.78	416.29	1.57	0.910	0.012	1.29	0.41629
10.14	0.92	11.46	419.08	1.57	0.920	0.011	1.25	0.41908
10.15	0.93	11.4	421.34	1.57	0.930	0.011	1.23	0.42134
10.16	0.94	11.75	423.5	1.57	0.940	0.012	1.25	0.4235
10.17	0.96	12.13	427.01	1.57	0.960	0.012	1.26	0.42701
10.18	0.98	12.39	432.15	1.57	0.980	0.012	1.26	0.43215
10.19	0.98	12.39	437.11	1.57	0.980	0.012	1.26	0.43711
10.2	0.99	11.69	439.54	1.57	0.990	0.012	1.18	0.43954
10.21	1	11.56	439.9	1.57	1.000	0.012	1.16	0.4399
10.22	1.01	11.56	442.6	1.57	1.010	0.012	1.14	0.4426
10.23	1.02	11.81	447.74	1.57	1.020	0.012	1.16	0.44774
10.24	1.04	12.2	456.48	1.57	1.040	0.012	1.17	0.45648
10.25	1.05	12.77	462.52	1.57	1.050	0.013	1.22	0.46252
10.26	1.06	13.25	464.5	1.57	1.060	0.013	1.25	0.4645

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.27	1.06	13.79	464.86	1.57	1.060	0.014	1.30	0.46486
10.28	1.06	13.88	462.61	1.57	1.060	0.014	1.31	0.46261
10.29	1.06	14.49	459.9	1.57	1.060	0.014	1.37	0.4599
10.3	1.06	14.78	458.19	1.57	1.060	0.015	1.39	0.45819
10.31	1.06	14.78	458.19	1.57	1.060	0.015	1.39	0.45819
10.32	1.06	15	459.81	1.57	1.060	0.015	1.42	0.45981
10.33	1.06	15.41	463.6	1.57	1.060	0.015	1.45	0.4636
10.34	1.08	15.92	461.7	1.57	1.080	0.016	1.47	0.4617
10.35	1.09	16.72	462.25	1.57	1.090	0.017	1.53	0.46225
10.36	1.1	17.36	462.43	1.57	1.100	0.017	1.58	0.46243
10.37	1.1	17.99	463.24	1.57	1.100	0.018	1.64	0.46324
10.38	1.1	18.5	461.07	1.57	1.100	0.019	1.68	0.46107
10.39	1.09	18.82	456.21	1.57	1.090	0.019	1.73	0.45621
10.4	1.09	19.43	448.82	1.57	1.090	0.019	1.78	0.44882
10.41	1.08	20.09	442.6	1.57	1.080	0.020	1.86	0.4426
10.42	1.08	20.86	436.57	1.57	1.080	0.021	1.93	0.43657
10.43	1.07	21.5	429.81	1.57	1.070	0.022	2.01	0.42981
10.44	1.05	22.32	425.57	1.57	1.050	0.022	2.13	0.42557
10.45	1.03	22.77	421.7	1.57	1.030	0.023	2.21	0.4217
10.46	1.01	22.9	416.56	1.57	1.010	0.023	2.27	0.41656
10.47	1.01	22.93	412.78	1.57	1.010	0.023	2.27	0.41278
10.48	1	23.09	411.61	1.57	1.000	0.023	2.31	0.41161
10.49	1	23.6	412.15	1.57	1.000	0.024	2.36	0.41215
10.5	1	24.01	415.93	1.57	1.000	0.024	2.40	0.41593
10.51	0.99	24.01	412.96	1.57	0.990	0.024	2.43	0.41296
10.52	0.98	23.92	409.53	1.57	0.980	0.024	2.44	0.40953
10.53	0.98	23.98	410.52	1.57	0.980	0.024	2.45	0.41052
10.54	0.98	24.14	411.16	1.57	0.980	0.024	2.46	0.41116
10.55	0.98	24.27	413.32	1.57	0.980	0.024	2.48	0.41332
10.56	0.97	24.46	416.65	1.57	0.970	0.024	2.52	0.41665
10.57	0.97	24.08	418.18	1.57	0.970	0.024	2.48	0.41818
10.58	0.97	23.69	420.89	1.57	0.970	0.024	2.44	0.42089
10.59	0.97	23.57	418.9	1.57	0.970	0.024	2.43	0.4189
10.6	0.97	23.53	414.04	1.57	0.970	0.024	2.43	0.41404
10.61	0.97	23.73	407.82	1.5	0.970	0.024	2.45	0.40782
10.62	0.97	23.73	407.82	1.5	0.970	0.024	2.45	0.40782
10.63	0.97	23.66	406.47	1.5	0.970	0.024	2.44	0.40647
10.64	0.96	23.6	408.81	1.5	0.960	0.024	2.46	0.40881
10.65	0.96	23.63	413.68	1.5	0.960	0.024	2.46	0.41368
10.66	0.97	23.63	419.63	1.5	0.970	0.024	2.44	0.41963
10.67	0.98	23.47	426.56	1.5	0.980	0.023	2.39	0.42656
10.68	1	23.38	434.85	1.51	1.000	0.023	2.34	0.43485
10.69	1.02	23.5	440.8	1.51	1.020	0.024	2.30	0.4408
10.7	1.04	23.5	439.54	1.51	1.040	0.024	2.26	0.43954
10.71	1.05	24.01	436.02	1.51	1.050	0.024	2.29	0.43602
10.72	1.04	24.27	431.52	1.51	1.040	0.024	2.33	0.43152
10.73	1.04	24.33	437.11	1.51	1.040	0.024	2.34	0.43711
10.74	1.05	24.62	444.04	1.51	1.050	0.025	2.34	0.44404
10.75	1.04	25.09	442.87	1.51	1.040	0.025	2.41	0.44287
10.76	1.03	25.09	441.16	1.51	1.030	0.025	2.44	0.44116
10.77	1.03	25.57	438.01	1.51	1.030	0.026	2.48	0.43801
10.78	1.03	25.92	431.25	1.52	1.030	0.026	2.52	0.43125
10.79	1.04	26.15	424.31	1.45	1.040	0.026	2.51	0.42431
10.8	1.03	26.97	417.1	1.52	1.030	0.027	2.62	0.4171
10.81	1.02	27.8	414.76	1.45	1.020	0.028	2.73	0.41476
10.82	1.03	27.93	418.99	1.45	1.030	0.028	2.71	0.41899
10.83	1.03	27.93	419.99	1.45	1.030	0.028	2.71	0.41999

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.84	1.02	28.22	422.6	1.45	1.020	0.028	2.77	0.4226
10.85	1.02	28.73	424.85	1.45	1.020	0.029	2.82	0.42485
10.86	1.02	29.2	428.46	1.52	1.020	0.029	2.86	0.42846
10.87	1.01	29.46	432.69	1.52	1.010	0.029	2.92	0.43269
10.88	1.02	29.04	430.53	1.52	1.020	0.029	2.85	0.43053
10.89	1.03	29.11	427.46	1.52	1.030	0.029	2.83	0.42746
10.9	1.03	29.11	427.46	1.52	1.030	0.029	2.83	0.42746
10.91	1.03	29.11	427.46	1.52	1.030	0.029	2.83	0.42746
10.92	1.05	29.9	444.76	1.53	1.050	0.030	2.85	0.44476
10.93	1.05	30.03	440.89	1.53	1.050	0.030	2.86	0.44089
10.94	1.04	30.22	437.38	1.53	1.040	0.030	2.91	0.43738
10.95	1.04	30.35	436.29	1.53	1.040	0.030	2.92	0.43629
10.96	1.03	30.76	434.58	1.53	1.030	0.031	2.99	0.43458
10.97	1.02	31.27	431.7	1.53	1.020	0.031	3.07	0.4317
10.98	1.01	31.5	423.77	1.53	1.010	0.032	3.12	0.42377
10.99	1	31.85	416.92	1.53	1.000	0.032	3.19	0.41692
11	0.98	32.48	407.64	1.53	0.980	0.032	3.31	0.40764
11.01	0.96	32.99	400.16	1.53	0.960	0.033	3.44	0.40016
11.02	0.95	33.25	391.06	1.53	0.950	0.033	3.50	0.39106
11.03	0.96	33.31	395.3	1.53	0.960	0.033	3.47	0.3953
11.04	0.97	33.12	401.78	1.53	0.970	0.033	3.41	0.40178
11.05	0.97	33.22	408.27	1.53	0.970	0.033	3.42	0.40827
11.06	0.98	32.87	417.1	1.53	0.980	0.033	3.35	0.4171
11.07	0.99	32.23	426.47	1.53	0.990	0.032	3.26	0.42647
11.08	1	31.56	434.49	1.53	1.000	0.032	3.16	0.43449
11.09	1.01	31.24	444.67	1.55	1.010	0.031	3.09	0.44467
11.1	1.01	30.89	449.72	1.55	1.010	0.031	3.06	0.44972
11.11	1.02	30.92	451.79	1.55	1.020	0.031	3.03	0.45179
11.12	1.03	31.18	450.62	1.55	1.030	0.031	3.03	0.45062
11.13	1.03	30.95	446.93	1.55	1.030	0.031	3.00	0.44693
11.14	1.03	30.86	441.61	1.55	1.030	0.031	3.00	0.44161
11.15	1.02	31.05	435.66	1.55	1.020	0.031	3.04	0.43566
11.16	1	31.4	440.35	1.55	1.000	0.031	3.14	0.44035
11.17	0.98	31.18	440.89	1.55	0.980	0.031	3.18	0.44089
11.18	0.99	30.09	439.63	1.55	0.990	0.030	3.04	0.43963
11.19	1	29.23	434.85	1.55	1.000	0.029	2.92	0.43485
11.2	1.01	29.23	429.27	1.55	1.010	0.029	2.89	0.42927
11.21	1	29.27	422.78	1.55	1.000	0.029	2.93	0.42278
11.22	1	29.17	416.47	1.55	1.000	0.029	2.92	0.41647
11.23	0.99	29.04	411.25	1.55	0.990	0.029	2.93	0.41125
11.24	0.99	28.76	404.67	1.55	0.990	0.029	2.91	0.40467
11.25	0.99	28.6	401.51	1.55	0.990	0.029	2.89	0.40151
11.26	0.98	29.23	401.33	1.55	0.980	0.029	2.98	0.40133
11.27	0.97	29.68	401.87	1.55	0.970	0.030	3.06	0.40187
11.28	0.96	29.94	403.23	1.55	0.960	0.030	3.12	0.40323
11.29	0.94	29.68	403.95	1.55	0.940	0.030	3.16	0.40395
11.3	0.93	30.03	406.65	1.55	0.930	0.030	3.23	0.40665
11.31	0.93	30.03	406.65	1.55	0.930	0.030	3.23	0.40665
11.32	0.92	30.67	405.75	1.55	0.920	0.031	3.33	0.40575
11.33	0.92	31.08	405.57	1.55	0.920	0.031	3.38	0.40557
11.34	0.93	31.05	405.21	1.55	0.930	0.031	3.34	0.40521
11.35	0.93	30.92	409.08	1.55	0.930	0.031	3.32	0.40908
11.36	0.93	30.99	410.16	1.55	0.930	0.031	3.33	0.41016
11.37	0.94	30.83	411.52	1.55	0.940	0.031	3.28	0.41152
11.38	0.96	30.54	415.12	1.55	0.960	0.031	3.18	0.41512
11.39	0.95	30.76	417.73	1.55	0.950	0.031	3.24	0.41773
11.4	0.94	29.97	417.37	1.55	0.940	0.030	3.19	0.41737

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.41	0.95	28.92	416.2	1.55	0.950	0.029	3.04	0.4162
11.42	0.94	28.53	414.22	1.57	0.940	0.029	3.04	0.41422
11.43	0.93	28.34	415.12	1.57	0.930	0.028	3.05	0.41512
11.44	0.93	28.09	414.31	1.57	0.930	0.028	3.02	0.41431
11.45	0.93	27.96	410.88	1.57	0.930	0.028	3.01	0.41088
11.46	0.93	28.22	407.1	1.57	0.930	0.028	3.03	0.4071
11.47	0.93	28.12	405.12	1.57	0.930	0.028	3.02	0.40512
11.48	0.93	27.77	399.71	1.57	0.930	0.028	2.99	0.39971
11.49	0.93	27.52	393.4	1.57	0.930	0.028	2.96	0.3934
11.5	0.92	27.55	388.45	1.57	0.920	0.028	2.99	0.38845
11.51	0.9	27.45	385.2	1.57	0.900	0.027	3.05	0.3852
11.52	0.89	27.1	385.38	1.57	0.890	0.027	3.04	0.38538
11.53	0.88	26.88	384.39	1.57	0.880	0.027	3.05	0.38439
11.54	0.88	26.85	384.12	1.57	0.880	0.027	3.05	0.38412
11.55	0.87	26.34	383.13	1.57	0.870	0.026	3.03	0.38313
11.56	0.87	25.95	386.2	1.57	0.870	0.026	2.98	0.3862
11.57	0.87	25.54	394.49	1.57	0.870	0.026	2.94	0.39449
11.58	0.89	24.62	402.87	1.57	0.890	0.025	2.77	0.40287
11.59	0.89	24.62	402.87	1.57	0.890	0.025	2.77	0.40287
11.6	0.92	23.6	409.08	1.57	0.920	0.024	2.57	0.40908
11.61	0.94	22.96	414.94	1.57	0.940	0.023	2.44	0.41494
11.62	0.96	22.87	416.56	1.57	0.960	0.023	2.38	0.41656
11.63	0.97	23.06	415.39	1.57	0.970	0.023	2.38	0.41539
11.64	0.97	23.22	412.87	1.57	0.970	0.023	2.39	0.41287
11.65	0.97	23.44	407.28	1.57	0.970	0.023	2.42	0.40728
11.66	0.97	23.73	401.33	1.57	0.970	0.024	2.45	0.40133
11.67	0.96	24.59	396.02	1.57	0.960	0.025	2.56	0.39602
11.68	0.94	25.45	392.59	1.57	0.940	0.025	2.71	0.39259
11.69	0.93	26.4	390.07	1.57	0.930	0.026	2.84	0.39007
11.7	0.92	26.78	387.82	1.57	0.920	0.027	2.91	0.38782
11.71	0.91	27.2	386.11	1.59	0.910	0.027	2.99	0.38611
11.72	0.9	27.9	387.01	1.59	0.900	0.028	3.10	0.38701
11.73	0.89	28.28	385.93	1.59	0.890	0.028	3.18	0.38593
11.74	0.89	28.6	384.66	1.59	0.890	0.029	3.21	0.38466
11.75	0.89	28.88	387.64	1.59	0.890	0.029	3.24	0.38764
11.76	0.9	28.95	388.9	1.59	0.900	0.029	3.22	0.3889
11.77	0.91	28.92	389.62	1.59	0.910	0.029	3.18	0.38962
11.78	0.91	28.82	390.97	1.59	0.910	0.029	3.17	0.39097
11.79	0.91	28.66	392.59	1.59	0.910	0.029	3.15	0.39259
11.8	0.91	27.96	392.32	1.59	0.910	0.028	3.07	0.39232
11.81	0.91	27.64	393.13	1.59	0.910	0.028	3.04	0.39313
11.82	0.91	26.97	393.04	1.59	0.910	0.027	2.96	0.39304
11.83	0.91	26.46	391.15	1.59	0.910	0.026	2.91	0.39115
11.84	0.91	26.05	387.28	1.59	0.910	0.026	2.86	0.38728
11.85	0.92	25.76	386.65	1.59	0.920	0.026	2.80	0.38665
11.86	0.91	25.48	384.48	1.59	0.910	0.025	2.80	0.38448
11.87	0.91	25.41	392.77	1.59	0.910	0.025	2.79	0.39277
11.88	0.92	25.29	399.08	1.59	0.920	0.025	2.75	0.39908
11.89	0.92	25.29	399.08	1.59	0.920	0.025	2.75	0.39908
11.9	0.92	25.29	399.08	1.59	0.920	0.025	2.75	0.39908
11.91	0.95	24.04	451.43	1.59	0.950	0.024	2.53	0.45143
11.92	0.96	23.28	435.57	1.59	0.960	0.023	2.43	0.43557
11.93	0.97	22.99	423.41	1.59	0.970	0.023	2.37	0.42341
11.94	0.98	23.12	404.58	1.59	0.980	0.023	2.36	0.40458
11.95	0.97	23.6	398.36	1.59	0.970	0.024	2.43	0.39836
11.96	0.96	23.88	400.61	1.59	0.960	0.024	2.49	0.40061
11.97	0.94	24.2	406.56	1.59	0.940	0.024	2.57	0.40656

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.98	0.94	24.23	411.79	1.59	0.940	0.024	2.58	0.41179
11.99	0.94	23.73	413.5	1.59	0.940	0.024	2.52	0.4135
12	0.95	23.22	414.4	1.59	0.950	0.023	2.44	0.4144
12.01	0.96	23.06	415.48	1.59	0.960	0.023	2.40	0.41548
12.02	0.96	22.8	413.41	1.59	0.960	0.023	2.38	0.41341
12.03	0.96	22.2	405.66	1.59	0.960	0.022	2.31	0.40566
12.04	0.96	21.81	404.04	1.62	0.960	0.022	2.27	0.40404
12.05	0.96	21.43	401.69	1.59	0.960	0.021	2.23	0.40169
12.06	0.95	21.08	401.78	1.59	0.950	0.021	2.22	0.40178
12.07	0.94	20.64	404.31	1.59	0.940	0.021	2.20	0.40431
12.08	0.94	19.97	405.03	1.59	0.940	0.020	2.12	0.40503
12.09	0.93	19.46	406.02	1.62	0.930	0.019	2.09	0.40602
12.1	0.93	18.95	404.94	1.59	0.930	0.019	2.04	0.40494
12.11	0.92	18.63	401.42	1.59	0.920	0.019	2.03	0.40142
12.12	0.91	18.31	398.27	1.59	0.910	0.018	2.01	0.39827
12.13	0.9	18.18	401.24	1.59	0.900	0.018	2.02	0.40124
12.14	0.91	18.15	404.4	1.59	0.910	0.018	1.99	0.4044
12.15	0.92	17.9	407.73	1.59	0.920	0.018	1.95	0.40773
12.16	0.93	17.96	407.28	1.59	0.930	0.018	1.93	0.40728
12.17	0.93	17.9	404.85	1.59	0.930	0.018	1.92	0.40485
12.18	0.93	18.06	399.98	1.59	0.930	0.018	1.94	0.39998
12.19	0.92	18.28	393.76	1.62	0.920	0.018	1.99	0.39376
12.2	0.9	18.85	384.48	1.59	0.900	0.019	2.09	0.38448
12.21	0.9	18.85	384.48	1.59	0.900	0.019	2.09	0.38448
12.22	0.88	19.2	374.75	1.62	0.880	0.019	2.18	0.37475
12.23	0.87	19.49	374.39	1.56	0.870	0.019	2.24	0.37439
12.24	0.87	19.68	377.91	1.56	0.870	0.020	2.26	0.37791
12.25	0.86	19.81	386.2	1.56	0.860	0.020	2.30	0.3862
12.26	0.86	19.62	396.47	1.56	0.860	0.020	2.28	0.39647
12.27	0.87	19.2	404.31	1.56	0.870	0.019	2.21	0.40431
12.28	0.86	18.95	410.07	1.62	0.860	0.019	2.20	0.41007
12.29	0.86	18.66	414.22	1.56	0.860	0.019	2.17	0.41422
12.3	0.86	18.66	414.4	1.56	0.860	0.019	2.17	0.4144
12.31	0.86	18.88	417.64	1.56	0.860	0.019	2.20	0.41764
12.32	0.86	19.04	422.15	1.56	0.860	0.019	2.21	0.42215
12.33	0.87	19.11	429.09	1.56	0.870	0.019	2.20	0.42909
12.34	0.88	19.04	435.21	1.56	0.880	0.019	2.16	0.43521
12.35	0.9	18.88	439.45	1.56	0.900	0.019	2.10	0.43945
12.36	0.91	18.66	441.52	1.56	0.910	0.019	2.05	0.44152
12.37	0.92	18.66	443.14	1.56	0.920	0.019	2.03	0.44314
12.38	0.91	18.82	444.85	1.56	0.910	0.019	2.07	0.44485
12.39	0.91	18.73	445.31	1.56	0.910	0.019	2.06	0.44531
12.4	0.91	18.57	448.46	1.56	0.910	0.019	2.04	0.44846
12.41	0.91	18.69	452.96	1.56	0.910	0.019	2.05	0.45296
12.42	0.91	18.98	458.19	1.56	0.910	0.019	2.09	0.45819
12.43	0.91	19.17	463.96	1.56	0.910	0.019	2.11	0.46396
12.44	0.92	19.01	468.91	1.56	0.920	0.019	2.07	0.46891
12.45	0.93	18.85	472.7	1.56	0.930	0.019	2.03	0.4727
12.46	0.93	18.73	472.34	1.56	0.930	0.019	2.01	0.47234
12.47	0.93	18.95	471.26	1.56	0.930	0.019	2.04	0.47126
12.48	0.93	19.39	472.61	1.56	0.930	0.019	2.08	0.47261
12.49	0.94	19.87	477.11	1.56	0.940	0.020	2.11	0.47711
12.5	0.94	20.54	480.99	1.56	0.940	0.021	2.19	0.48099
12.51	0.95	20.99	486.84	1.56	0.950	0.021	2.21	0.48684
12.52	0.96	21.37	491.26	1.56	0.960	0.021	2.23	0.49126
12.53	0.97	21.81	493.78	1.59	0.970	0.022	2.25	0.49378
12.54	0.98	22.36	498.11	1.59	0.980	0.022	2.28	0.49811

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
12.55	0.98	22.74	504.6	1.59	0.980	0.023	2.32	0.5046
12.56	1	22.83	507.57	1.59	1.000	0.023	2.28	0.50757
12.57	1.01	23.38	507.12	1.65	1.010	0.023	2.31	0.50712
12.58	1	24.3	505.14	1.59	1.000	0.024	2.43	0.50514
12.59	1	25.38	503.33	1.59	1.000	0.025	2.54	0.50333
12.6	0.99	26.02	500.27	1.59	0.990	0.026	2.63	0.50027
12.61	1	26.08	503.15	1.59	1.000	0.026	2.61	0.50315
12.62	0.99	26.18	503.24	1.59	0.990	0.026	2.64	0.50324
12.63	0.99	26.37	504.23	1.59	0.990	0.026	2.66	0.50423
12.64	0.99	26.37	504.23	1.59	0.990	0.026	2.66	0.50423
12.65	0.99	26.66	502.43	1.65	0.990	0.027	2.69	0.50243
12.66	0.99	26.56	500.63	1.65	0.990	0.027	2.68	0.50063
12.67	0.98	26.66	498.47	1.65	0.980	0.027	2.72	0.49847
12.68	0.98	26.91	481.08	1.59	0.980	0.027	2.75	0.48108
12.69	0.97	26.81	474.41	1.59	0.970	0.027	2.76	0.47441
12.7	0.97	26.91	485.49	1.65	0.970	0.027	2.77	0.48549
12.71	0.97	26.88	488.38	1.65	0.970	0.027	2.77	0.48838
12.72	0.97	26.62	490.54	1.65	0.970	0.027	2.74	0.49054
12.73	0.98	26.46	490.54	1.65	0.980	0.026	2.70	0.49054
12.74	0.99	26.34	491.53	1.65	0.990	0.026	2.66	0.49153
12.75	0.99	26.46	490.99	1.65	0.990	0.026	2.67	0.49099
12.76	0.99	26.56	492.16	1.65	0.990	0.027	2.68	0.49216
12.77	0.98	26.75	491.53	1.65	0.980	0.027	2.73	0.49153
12.78	0.97	27.13	491.89	1.69	0.970	0.027	2.80	0.49189
12.79	0.96	27.52	490.54	1.65	0.960	0.028	2.87	0.49054
12.8	0.94	27.9	479.64	1.62	0.940	0.028	2.97	0.47964
12.81	0.93	27.99	478.19	1.59	0.930	0.028	3.01	0.47819
12.82	0.93	27.96	472.97	1.59	0.930	0.028	3.01	0.47297
12.83	0.92	28.12	471.98	1.59	0.920	0.028	3.06	0.47198
12.84	0.91	28.22	468.73	1.59	0.910	0.028	3.10	0.46873
12.85	0.91	28.15	461.34	1.69	0.910	0.028	3.09	0.46134
12.86	0.9	28.28	457.56	1.69	0.900	0.028	3.14	0.45756
12.87	0.89	28.66	450.17	1.69	0.890	0.029	3.22	0.45017
12.88	0.88	28.82	447.47	1.62	0.880	0.029	3.28	0.44747
12.89	0.88	28.82	447.47	1.62	0.880	0.029	3.28	0.44747
12.9	0.88	28.82	447.47	1.62	0.880	0.029	3.28	0.44747
12.91	0.86	30.6	511.98	1.69	0.860	0.031	3.56	0.51198
12.92	0.85	30.44	507.03	1.69	0.850	0.030	3.58	0.50703
12.93	0.85	30.32	501.44	1.69	0.850	0.030	3.57	0.50144
12.94	0.84	30.29	494.14	1.69	0.840	0.030	3.61	0.49414
12.95	0.83	30.32	492.25	1.69	0.830	0.030	3.65	0.49225
12.96	0.83	30.48	492.43	1.69	0.830	0.030	3.67	0.49243
12.97	0.83	30.41	491.98	1.69	0.830	0.030	3.66	0.49198
12.98	0.82	30.19	488.92	1.69	0.820	0.030	3.68	0.48892
12.99	0.82	30.03	486.84	1.69	0.820	0.030	3.66	0.48684
13	0.82	29.87	485.49	1.69	0.820	0.030	3.64	0.48549
13.01	0.82	29.62	481.8	1.69	0.820	0.030	3.61	0.4818
13.02	0.82	29.46	472.61	1.69	0.820	0.029	3.59	0.47261
13.03	0.82	29.11	466.48	1.69	0.820	0.029	3.55	0.46648
13.04	0.82	28.73	465.13	1.69	0.820	0.029	3.50	0.46513
13.05	0.81	28.57	468.73	1.69	0.810	0.029	3.53	0.46873
13.06	0.81	28.53	471.26	1.69	0.810	0.029	3.52	0.47126
13.07	0.81	28.31	470.36	1.69	0.810	0.028	3.50	0.47036
13.08	0.82	27.71	470.81	1.69	0.820	0.028	3.38	0.47081
13.09	0.82	27.58	475.22	1.72	0.820	0.028	3.36	0.47522
13.1	0.82	27.55	480.9	1.69	0.820	0.028	3.36	0.4809
13.11	0.82	27.52	485.49	1.72	0.820	0.028	3.36	0.48549

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.12	0.83	27.36	488.92	1.72	0.830	0.027	3.30	0.48892
13.13	0.84	27.1	490.54	1.72	0.840	0.027	3.23	0.49054
13.14	0.85	26.97	495.04	1.72	0.850	0.027	3.17	0.49504
13.15	0.85	27.04	499.91	1.72	0.850	0.027	3.18	0.49991
13.16	0.85	26.88	503.06	1.72	0.850	0.027	3.16	0.50306
13.17	0.85	26.85	507.12	1.72	0.850	0.027	3.16	0.50712
13.18	0.88	26.24	537.3	1.72	0.880	0.026	2.98	0.5373
13.19	1.04	25.48	616.96	1.72	1.040	0.025	2.45	0.61696
13.2	1.35	25.19	640.66	1.72	1.350	0.025	1.87	0.64066
13.21	1.58	25.22	591.01	1.72	1.580	0.025	1.60	0.59101
13.22	1.7	24.04	395.3	1.72	1.700	0.024	1.41	0.3953
13.23	1.57	24.78	265.99	1.72	1.570	0.025	1.58	0.26599
13.24	1.37	27.13	271.13	1.72	1.370	0.027	1.98	0.27113
13.25	1.17	31.88	314.92	1.72	1.170	0.032	2.72	0.31492
13.26	0.97	38.25	415.57	1.72	0.970	0.038	3.94	0.41557
13.27	0.91	40.54	483.87	1.72	0.910	0.041	4.45	0.48387
13.28	0.89	38.37	477.92	1.72	0.890	0.038	4.31	0.47792
13.29	0.89	37.16	486.39	1.72	0.890	0.037	4.18	0.48639
13.3	0.89	36.56	362.23	1.72	0.890	0.037	4.11	0.36223
13.31	0.87	36.24	399.98	1.72	0.870	0.036	4.17	0.39998
13.32	0.86	36.88	452.15	1.72	0.860	0.037	4.29	0.45215
13.33	0.86	36.69	491.98	1.72	0.860	0.037	4.27	0.49198
13.34	0.86	36.5	481.17	1.72	0.860	0.037	4.24	0.48117
13.35	0.87	36.78	503.87	1.72	0.870	0.037	4.23	0.50387
13.36	0.87	37.58	509.1	1.72	0.870	0.038	4.32	0.5091
13.37	0.87	37.58	509.1	1.72	0.870	0.038	4.32	0.5091
13.38	0.87	36.4	504.42	1.72	0.870	0.036	4.18	0.50442
13.39	0.88	34.3	498.29	1.72	0.880	0.034	3.90	0.49829
13.4	0.89	29.94	491.53	1.72	0.890	0.030	3.36	0.49153
13.41	0.89	26.02	493.6	1.72	0.890	0.026	2.92	0.4936
13.42	0.9	25.64	480.09	1.72	0.900	0.026	2.85	0.48009
13.43	0.91	26.21	478.55	1.72	0.910	0.026	2.88	0.47855
13.44	0.91	27.39	473.6	1.72	0.910	0.027	3.01	0.4736
13.45	0.92	28.47	462.97	1.72	0.920	0.028	3.09	0.46297
13.46	0.92	28.57	455.58	1.72	0.920	0.029	3.11	0.45558
13.47	0.93	28.12	467.11	1.72	0.930	0.028	3.02	0.46711
13.48	0.93	28.15	462.61	1.72	0.930	0.028	3.03	0.46261
13.49	0.93	28.79	485.31	1.72	0.930	0.029	3.10	0.48531
13.5	0.93	29.49	490.63	1.72	0.930	0.029	3.17	0.49063
13.51	0.93	29.78	479.73	1.72	0.930	0.030	3.20	0.47973
13.52	0.94	29.9	462.34	1.76	0.940	0.030	3.18	0.46234
13.53	0.96	29.81	491.08	1.76	0.960	0.030	3.11	0.49108
13.54	0.97	30.29	497.75	1.72	0.970	0.030	3.12	0.49775
13.55	0.97	31.27	498.92	1.76	0.970	0.031	3.22	0.49892
13.56	0.98	32.16	493.6	1.76	0.980	0.032	3.28	0.4936
13.57	0.98	32.23	491.17	1.76	0.980	0.032	3.29	0.49117
13.58	0.97	32.39	490.9	1.76	0.970	0.032	3.34	0.4909
13.59	0.95	32.16	486.93	1.76	0.950	0.032	3.39	0.48693
13.6	0.92	31.59	451.61	1.76	0.920	0.032	3.43	0.45161
13.61	0.91	30.54	431.79	1.76	0.910	0.031	3.36	0.43179
13.62	0.88	29.84	423.68	1.76	0.880	0.030	3.39	0.42368
13.63	0.86	29.55	380.52	1.76	0.860	0.030	3.44	0.38052
13.64	0.84	29.43	378.18	1.76	0.840	0.029	3.50	0.37818
13.65	0.82	29.49	409.53	1.76	0.820	0.029	3.60	0.40953
13.66	0.8	29.9	428.46	1.76	0.800	0.030	3.74	0.42846
13.67	0.79	29.01	430.26	1.76	0.790	0.029	3.67	0.43026
13.68	0.78	27.99	434.76	1.76	0.780	0.028	3.59	0.43476

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.69	0.78	27.29	436.38	1.76	0.780	0.027	3.50	0.43638
13.7	0.78	26.66	439.81	1.76	0.780	0.027	3.42	0.43981
13.71	0.78	26.18	444.67	1.76	0.780	0.026	3.36	0.44467
13.72	0.78	25.86	447.92	1.76	0.780	0.026	3.32	0.44792
13.73	0.78	25.54	447.74	1.76	0.780	0.026	3.27	0.44774
13.74	0.78	25.7	446.84	1.76	0.780	0.026	3.29	0.44684
13.75	0.78	25.6	445.4	1.76	0.780	0.026	3.28	0.4454
13.76	0.78	24.81	443.86	1.76	0.780	0.025	3.18	0.44386
13.77	0.79	24.17	445.76	1.7	0.790	0.024	3.06	0.44576
13.78	0.8	23.25	453.23	1.76	0.800	0.023	2.91	0.45323
13.79	0.81	22.39	452.87	1.7	0.810	0.022	2.76	0.45287
13.8	0.8	22.26	449	1.7	0.800	0.022	2.78	0.449
13.81	0.8	22.1	446.03	1.7	0.800	0.022	2.76	0.44603
13.82	0.79	22.32	441.61	1.7	0.790	0.022	2.83	0.44161
13.83	0.79	22.32	441.61	1.7	0.790	0.022	2.83	0.44161
13.84	0.79	22.32	441.79	1.8	0.790	0.022	2.83	0.44179
13.85	0.79	22.23	441.79	1.7	0.790	0.022	2.81	0.44179
13.86	0.8	22.48	440.89	1.74	0.800	0.022	2.81	0.44089
13.87	0.8	22.96	441.34	1.74	0.800	0.023	2.87	0.44134
13.88	0.81	23.6	443.23	1.8	0.810	0.024	2.91	0.44323
13.89	0.81	23.6	443.23	1.8	0.810	0.024	2.91	0.44323
13.9	0.81	23.6	443.23	1.8	0.810	0.024	2.91	0.44323
13.91	0.86	27.13	503.6	1.7	0.860	0.027	3.15	0.5036
13.92	0.86	27.45	500.9	1.76	0.860	0.027	3.19	0.5009
13.93	0.87	27.93	497.57	1.76	0.870	0.028	3.21	0.49757
13.94	0.88	28.79	489.46	1.76	0.880	0.029	3.27	0.48946
13.95	0.88	30.06	484.5	1.76	0.880	0.030	3.42	0.4845
13.96	0.87	31.78	480.81	1.76	0.870	0.032	3.65	0.48081
13.97	0.87	32.74	476.57	1.76	0.870	0.033	3.76	0.47657
13.98	0.87	33.34	469.81	1.76	0.870	0.033	3.83	0.46981
13.99	0.88	33.82	463.87	1.76	0.880	0.034	3.84	0.46387
14	0.87	34.87	462.7	1.76	0.870	0.035	4.01	0.4627
14.01	0.87	36.05	466.57	1.76	0.870	0.036	4.14	0.46657
14.02	0.87	37.04	468.73	1.76	0.870	0.037	4.26	0.46873
14.03	0.88	38.06	473.51	1.76	0.880	0.038	4.33	0.47351
14.04	0.89	39.17	476.48	1.76	0.890	0.039	4.40	0.47648
14.05	0.9	40.03	477.83	1.76	0.900	0.040	4.45	0.47783
14.06	0.9	40.7	479.64	1.76	0.900	0.041	4.52	0.47964
14.07	0.91	40.95	480.54	1.8	0.910	0.041	4.50	0.48054
14.08	0.91	41.65	481.08	1.8	0.910	0.042	4.58	0.48108
14.09	0.92	42.1	478.73	1.76	0.920	0.042	4.58	0.47873
14.1	0.93	42.42	477.2	1.76	0.930	0.042	4.56	0.4772
14.11	0.94	42.39	475.22	1.76	0.940	0.042	4.51	0.47522
14.12	0.96	42.67	468.64	1.8	0.960	0.043	4.44	0.46864
14.13	0.97	42.99	463.51	1.8	0.970	0.043	4.43	0.46351
14.14	0.97	43.95	459.54	1.8	0.970	0.044	4.53	0.45954
14.15	0.97	45.32	457.38	1.8	0.970	0.045	4.67	0.45738
14.16	0.96	46.56	455.4	1.8	0.960	0.047	4.85	0.4554
14.17	0.96	46.56	455.4	1.8	0.960	0.047	4.85	0.4554
14.18	0.96	47.67	451.61	1.8	0.960	0.048	4.97	0.45161
14.19	0.96	48.18	449.72	1.8	0.960	0.048	5.02	0.44972
14.2	0.95	49.14	449.54	1.8	0.950	0.049	5.17	0.44954
14.21	0.94	50.41	448.55	1.8	0.940	0.050	5.36	0.44855
14.22	0.94	51.43	448.28	1.8	0.940	0.051	5.47	0.44828
14.23	0.93	52.2	445.13	1.8	0.930	0.052	5.61	0.44513
14.24	0.92	52.74	438.55	1.8	0.920	0.053	5.73	0.43855
14.25	0.92	53.25	435.21	1.8	0.920	0.053	5.79	0.43521

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.26	0.91	54.11	438.46	1.8	0.910	0.054	5.95	0.43846
14.27	0.91	54.93	439.63	1.8	0.910	0.055	6.04	0.43963
14.28	0.91	56.11	441.97	1.8	0.910	0.056	6.17	0.44197
14.29	0.91	56.56	443.14	1.8	0.910	0.057	6.22	0.44314
14.3	0.91	56.88	442.42	1.8	0.910	0.057	6.25	0.44242
14.31	0.91	56.56	443.05	1.8	0.910	0.057	6.22	0.44305
14.32	0.9	56.4	445.85	1.8	0.900	0.056	6.27	0.44585
14.33	0.9	56.37	444.4	1.8	0.900	0.056	6.26	0.4444
14.34	0.89	56.08	443.14	1.8	0.890	0.056	6.30	0.44314
14.35	0.9	55.51	442.06	1.8	0.900	0.056	6.17	0.44206
14.36	0.89	54.74	439.99	1.8	0.890	0.055	6.15	0.43999
14.37	0.9	54.11	442.33	1.8	0.900	0.054	6.01	0.44233
14.38	0.9	53.53	441.25	1.8	0.900	0.054	5.95	0.44125
14.39	0.91	53.34	446.75	1.8	0.910	0.053	5.86	0.44675
14.4	0.9	53.37	433.32	1.8	0.900	0.053	5.93	0.43332
14.41	0.9	52.99	424.31	1.85	0.900	0.053	5.89	0.42431
14.42	0.9	52.42	431.7	1.8	0.900	0.052	5.82	0.4317
14.43	0.91	51.78	426.02	1.8	0.910	0.052	5.69	0.42602
14.44	0.92	51.18	420.35	1.8	0.920	0.051	5.56	0.42035
14.45	0.93	51.37	428.55	1.8	0.930	0.051	5.52	0.42855
14.46	0.93	51.59	434.4	1.85	0.930	0.052	5.55	0.4344
14.47	0.94	51.53	428.55	1.85	0.940	0.052	5.48	0.42855
14.48	0.96	50.7	410.97	1.85	0.960	0.051	5.28	0.41097
14.49	0.99	50.16	405.03	1.8	0.990	0.050	5.07	0.40503
14.5	0.99	51.59	407.55	1.85	0.990	0.052	5.21	0.40755
14.51	0.99	52.9	406.11	1.85	0.990	0.053	5.34	0.40611
14.52	0.99	53.85	404.4	1.85	0.990	0.054	5.44	0.4044
14.53	1	55.06	404.49	1.85	1.000	0.055	5.51	0.40449
14.54	1.01	55.95	411.52	1.85	1.010	0.056	5.54	0.41152
14.55	1	56.65	417.64	1.85	1.000	0.057	5.67	0.41764
14.56	1	57.35	415.93	1.85	1.000	0.057	5.74	0.41593
14.57	1	57.35	415.93	1.85	1.000	0.057	5.74	0.41593
14.58	1.01	57.71	415.57	1.85	1.010	0.058	5.71	0.41557
14.59	1.02	58.28	409.98	1.85	1.020	0.058	5.71	0.40998
14.6	1.04	58.28	407.19	1.85	1.040	0.058	5.60	0.40719
14.61	1.06	58.72	410.43	1.85	1.060	0.059	5.54	0.41043
14.62	1.06	59.78	416.65	1.85	1.060	0.060	5.64	0.41665
14.63	1.07	61.56	417.1	1.85	1.070	0.062	5.75	0.4171
14.64	1.07	62.61	413.14	1.85	1.070	0.063	5.85	0.41314
14.65	1.08	62.77	407.46	1.85	1.080	0.063	5.81	0.40746
14.66	1.09	62.35	398.99	1.85	1.090	0.062	5.72	0.39899
14.67	1.09	61.91	391.06	1.85	1.090	0.062	5.68	0.39106
14.68	1.08	62.16	381.15	1.85	1.080	0.062	5.76	0.38115
14.69	1.06	62.9	363.76	1.85	1.060	0.063	5.93	0.36376
14.7	1.06	62.93	368.62	1.85	1.060	0.063	5.94	0.36862
14.71	1.06	62.8	372.95	1.85	1.060	0.063	5.92	0.37295
14.72	1.06	62.67	370.79	1.85	1.060	0.063	5.91	0.37079
14.73	1.07	62.99	373.4	1.85	1.070	0.063	5.89	0.3734
14.74	1.08	63.56	378.99	1.85	1.080	0.064	5.89	0.37899
14.75	1.07	64.33	380.97	1.85	1.070	0.064	6.01	0.38097
14.76	1.07	64.42	378.09	1.85	1.070	0.064	6.02	0.37809
14.77	1.07	63.88	374.66	1.85	1.070	0.064	5.97	0.37466
14.78	1.06	64.27	373.85	1.85	1.060	0.064	6.06	0.37385
14.79	1.05	64.87	370.79	1.89	1.050	0.065	6.18	0.37079
14.8	1.04	65.6	366.01	1.89	1.040	0.066	6.31	0.36601
14.81	1.03	65.95	366.19	1.95	1.030	0.066	6.40	0.36619
14.82	1.02	65.89	366.82	1.89	1.020	0.066	6.46	0.36682

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.83	1.02	65.6	369.8	1.89	1.020	0.066	6.43	0.3698
14.84	1.03	65.03	373.04	1.89	1.030	0.065	6.31	0.37304
14.85	1.05	64.39	377.09	1.89	1.050	0.064	6.13	0.37709
14.86	1.05	63.69	379.89	1.95	1.050	0.064	6.07	0.37989
14.87	1.05	63.53	397.37	1.95	1.050	0.064	6.05	0.39737
14.88	1.06	62.74	403.68	1.95	1.060	0.063	5.92	0.40368
14.89	1.06	62.74	403.68	1.95	1.060	0.063	5.92	0.40368
14.9	1.06	62.74	403.68	1.95	1.060	0.063	5.92	0.40368
14.91	1.13	57.26	393.13	1.95	1.130	0.057	5.07	0.39313
14.92	1.14	57.07	385.47	1.95	1.140	0.057	5.01	0.38547
14.93	1.15	56.3	377.64	1.95	1.150	0.056	4.90	0.37764
14.94	1.16	56.69	372.23	1.95	1.160	0.057	4.89	0.37223
14.95	1.15	57.26	352.23	1.95	1.150	0.057	4.98	0.35223
14.96	1.13	58.15	279.78	1.95	1.130	0.058	5.15	0.27978
14.97	1.13	58.98	338.53	1.95	1.130	0.059	5.22	0.33853
14.98	1.13	59.65	355.92	1.95	1.130	0.060	5.28	0.35592
14.99	1.1	60.83	353.94	1.95	1.100	0.061	5.53	0.35394
15	1.07	61.11	341.59	1.95	1.070	0.061	5.71	0.34159
15.01	1.08	60.19	366.55	1.95	1.080	0.060	5.57	0.36655
15.02	1.15	58.09	396.38	1.95	1.150	0.058	5.05	0.39638
15.03	1.16	57	435.84	1.95	1.160	0.057	4.91	0.43584
15.04	1.2	56.27	435.66	1.95	1.200	0.056	4.69	0.43566
15.05	1.2	54.17	351.23	1.95	1.200	0.054	4.51	0.35123
15.06	1.19	51.75	319.07	1.95	1.190	0.052	4.35	0.31907
15.07	1.26	48.98	345.02	1.95	1.260	0.049	3.89	0.34502
15.08	1.29	45.54	271.49	1.95	1.290	0.046	3.53	0.27149
15.09	1.25	42.55	346.19	1.95	1.250	0.043	3.40	0.34619
15.1	1.22	39.43	325.19	1.95	1.220	0.039	3.23	0.32519
15.11	1.21	36.65	250.95	1.95	1.210	0.037	3.03	0.25095
15.12	1.22	34.27	271.67	1.95	1.220	0.034	2.81	0.27167
15.13	1.23	33.22	286.36	1.95	1.230	0.033	2.70	0.28636
15.14	1.26	32.61	327.63	1.95	1.260	0.033	2.59	0.32763
15.15	1.26	33.79	260.32	1.95	1.260	0.034	2.68	0.26032
15.16	1.23	35.03	303.84	1.95	1.230	0.035	2.85	0.30384
15.17	1.21	36.05	308.34	1.95	1.210	0.036	2.98	0.30834
15.18	1.19	36.91	372.77	1.95	1.190	0.037	3.10	0.37277
15.19	1.2	38.34	417.1	1.95	1.200	0.038	3.20	0.4171
15.2	1.2	40.32	418.27	2	1.200	0.040	3.36	0.41827
15.21	1.18	43.15	408.81	2	1.180	0.043	3.66	0.40881
15.22	1.2	45.38	442.24	2	1.200	0.045	3.78	0.44224
15.23	1.18	47.13	456.75	2	1.180	0.047	3.99	0.45675
15.24	1.15	50.7	465.58	2	1.150	0.051	4.41	0.46558
15.25	1.12	53.37	457.29	2	1.120	0.053	4.77	0.45729
15.26	1.09	55.19	485.67	2	1.090	0.055	5.06	0.48567
15.27	1.06	55.79	484.68	2	1.060	0.056	5.26	0.48468
15.28	1.05	55.76	499.91	2	1.050	0.056	5.31	0.49991
15.29	1.05	54.55	491.53	2	1.050	0.055	5.20	0.49153
15.3	1.02	53.5	464.41	2	1.020	0.054	5.25	0.46441
15.31	1.08	50.92	503.51	2	1.080	0.051	4.71	0.50351
15.32	1.01	48.79	309.15	2	1.010	0.049	4.83	0.30915
15.33	1	47.39	416.47	2	1.000	0.047	4.74	0.41647
15.34	1.01	45.67	473.42	2	1.010	0.046	4.52	0.47342
15.35	0.99	44.39	488.65	2	0.990	0.044	4.48	0.48865
15.36	0.98	42.23	496.49	2	0.980	0.042	4.31	0.49649
15.37	1.01	37.58	510.18	2	1.010	0.038	3.72	0.51018
15.38	1.07	34.08	552.08	2	1.070	0.034	3.19	0.55208
15.39	1.27	31.53	551.72	2	1.270	0.032	2.48	0.55172

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.4	1.3	29.14	340.6	2	1.300	0.029	2.24	0.3406
15.41	1.29	27.83	369.17	2	1.290	0.028	2.16	0.36917
15.42	1.26	26.5	408.99	2	1.260	0.027	2.10	0.40899
15.43	1.25	26.81	314.29	2	1.250	0.027	2.14	0.31429
15.44	1.13	24.43	381.51	2.04	1.130	0.024	2.16	0.38151
15.45	1.13	24.43	381.51	2.04	1.130	0.024	2.16	0.38151
15.46	1.04	23.12	198.68	2	1.040	0.023	2.22	0.19868
15.47	0.99	21.88	362.86	2	0.990	0.022	2.21	0.36286
15.48	0.92	19.01	504.14	2.04	0.920	0.019	2.07	0.50414
15.49	0.88	16.69	517.48	2	0.880	0.017	1.90	0.51748
15.5	0.89	15.03	516.49	2.04	0.890	0.015	1.69	0.51649
15.51	0.88	14.01	462.79	2.04	0.880	0.014	1.59	0.46279
15.52	0.85	13.15	498.83	2.04	0.850	0.013	1.55	0.49883
15.53	0.84	12.2	522.53	2.1	0.840	0.012	1.45	0.52253
15.54	0.86	11.24	534.24	2.1	0.860	0.011	1.31	0.53424
15.55	0.89	10.7	539.2	2.1	0.890	0.011	1.20	0.5392
15.56	0.89	10.1	507.93	2.1	0.890	0.010	1.13	0.50793
15.57	0.89	10.45	512.34	2.1	0.890	0.010	1.17	0.51234
15.58	0.88	10.89	535.5	2.1	0.880	0.011	1.24	0.5355
15.59	0.9	10.22	547.94	2.1	0.900	0.010	1.14	0.54794
15.6	0.91	8.98	546.13	2.1	0.910	0.009	0.99	0.54613
15.61	0.91	8.82	538.3	2.1	0.910	0.009	0.97	0.5383
15.62	0.91	8.41	548.48	2.1	0.910	0.008	0.92	0.54848
15.63	0.93	8.12	520.9	2.1	0.930	0.008	0.87	0.5209
15.64	0.97	8.03	534.51	2.1	0.970	0.008	0.83	0.53451
15.65	0.97	8.34	550.91	2.1	0.970	0.008	0.86	0.55091
15.66	0.98	8.31	565.15	2.1	0.980	0.008	0.85	0.56515
15.67	1.02	7.96	589.84	2.1	1.020	0.008	0.78	0.58984
15.68	1.08	7.39	597.59	2.1	1.080	0.007	0.68	0.59759
15.69	1.13	7.64	593.71	2.1	1.130	0.008	0.68	0.59371
15.7	1.17	8.03	578.48	2.1	1.170	0.008	0.69	0.57848
15.71	1.2	8.63	569.2	2.1	1.200	0.009	0.72	0.5692
15.72	1.19	9.46	570.55	2.1	1.190	0.009	0.79	0.57055
15.73	1.17	10.29	581.01	2.1	1.170	0.010	0.88	0.58101
15.74	1.16	10.76	590.29	2.1	1.160	0.011	0.93	0.59029
15.75	1.16	10.1	596.86	2.04	1.160	0.010	0.87	0.59686
15.76	1.17	9.55	601.91	2.04	1.170	0.010	0.82	0.60191
15.77	1.17	9.68	604.16	2.04	1.170	0.010	0.83	0.60416
15.78	1.15	9.87	596.95	2.04	1.150	0.010	0.86	0.59695
15.79	1.14	10.19	536.58	2.04	1.140	0.010	0.89	0.53658
15.8	1.14	10.16	475.31	2.1	1.140	0.010	0.89	0.47531
15.81	1.15	9.39	530.55	2.1	1.150	0.009	0.82	0.53055
15.82	1.2	9.59	537.84	2.1	1.200	0.010	0.80	0.53784
15.83	1.22	10.25	538.93	2.1	1.220	0.010	0.84	0.53893
15.84	1.22	11.08	539.38	2.04	1.220	0.011	0.91	0.53938
15.85	1.21	11.72	532.53	2.04	1.210	0.012	0.97	0.53253
15.86	1.18	12.42	546.31	2.04	1.180	0.012	1.05	0.54631
15.87	1.15	12.36	563.89	2.04	1.150	0.012	1.07	0.56389
15.88	1.15	12.07	590.74	2.04	1.150	0.012	1.05	0.59074
15.89	1.15	12.07	590.74	2.04	1.150	0.012	1.05	0.59074
15.9	1.15	12.07	590.74	2.04	1.150	0.012	1.05	0.59074
15.91	1.58	19.84	433.95	2.04	1.580	0.020	1.26	0.43395
15.92	1.54	19.9	467.83	2.04	1.540	0.020	1.29	0.46783
15.93	1.53	19.59	506.76	2.04	1.530	0.020	1.28	0.50676
15.94	1.54	19.17	534.6	2.04	1.540	0.019	1.24	0.5346
15.95	1.55	18.63	562.89	2.04	1.550	0.019	1.20	0.56289
15.96	1.59	17.83	605.6	2.04	1.590	0.018	1.12	0.6056

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.97	1.68	17.9	642.37	2.04	1.680	0.018	1.07	0.64237
15.98	1.75	18.38	663.99	2.04	1.750	0.018	1.05	0.66399
15.99	1.76	18.76	682.1	2.04	1.760	0.019	1.07	0.6821
16	1.78	18.53	678.32	2.04	1.780	0.019	1.04	0.67832
16.01	1.78	18.73	373.94	2.04	1.780	0.019	1.05	0.37394
16.02	1.76	19.74	471.53	2.04	1.760	0.020	1.12	0.47153
16.03	1.74	20.57	493.51	2.04	1.740	0.021	1.18	0.49351
16.04	1.73	22.2	542.53	2.04	1.730	0.022	1.28	0.54253
16.05	1.71	23.12	571.27	2.04	1.710	0.023	1.35	0.57127
16.06	1.72	25.22	604.34	2.04	1.720	0.025	1.47	0.60434
16.07	1.74	25.89	630.2	2.04	1.740	0.026	1.49	0.6302
16.08	1.76	25.76	642.1	2.04	1.760	0.026	1.46	0.6421
16.09	1.78	26.11	648.5	2.04	1.780	0.026	1.47	0.6485
16.1	1.81	26.27	660.48	2.04	1.810	0.026	1.45	0.66048
16.11	1.84	26.88	684	2.04	1.840	0.027	1.46	0.684
16.12	1.87	28.25	718.69	2.04	1.870	0.028	1.51	0.71869
16.13	1.93	28.76	746.08	1.99	1.930	0.029	1.49	0.74608
16.14	1.99	29.39	773.29	1.99	1.990	0.029	1.48	0.77329
16.15	2.04	30.16	775.82	2.04	2.040	0.030	1.48	0.77582
16.16	2.06	32.26	778.25	1.99	2.060	0.032	1.57	0.77825
16.17	2.09	33.12	770.41	1.99	2.090	0.033	1.58	0.77041
16.18	2.1	33.69	743.47	1.99	2.100	0.034	1.60	0.74347
16.19	2.13	35.32	775.46	1.99	2.130	0.035	1.66	0.77546
16.2	2.18	36.78	808.52	1.99	2.180	0.037	1.69	0.80852
16.21	2.23	38.57	805.91	1.99	2.230	0.039	1.73	0.80591
16.22	2.29	40.29	680.48	1.99	2.290	0.040	1.76	0.68048
16.23	2.34	42.96	668.14	2.04	2.340	0.043	1.84	0.66814
16.24	2.35	48.09	645.79	1.99	2.350	0.048	2.05	0.64579
16.25	2.35	52.55	639.03	1.99	2.350	0.053	2.24	0.63903
16.26	2.34	57.45	623.81	1.99	2.340	0.057	2.46	0.62381
16.27	2.32	62.9	598.49	1.99	2.320	0.063	2.71	0.59849
16.28	2.3	68.18	571.63	1.99	2.300	0.068	2.96	0.57163
16.29	2.27	75.41	552.35	1.99	2.270	0.075	3.32	0.55235
16.3	2.25	82.51	552.17	1.99	2.250	0.083	3.67	0.55217
16.31	2.28	87.35	561.54	1.99	2.280	0.087	3.83	0.56154
16.32	2.31	93.53	576.59	1.99	2.310	0.094	4.05	0.57659
16.33	2.34	98.02	617.14	1.99	2.340	0.098	4.19	0.61714
16.34	2.38	102.93	659.04	1.99	2.380	0.103	4.32	0.65904
16.35	2.42	105.22	670.39	1.99	2.420	0.105	4.35	0.67039
16.36	2.42	109.61	646.96	1.99	2.420	0.110	4.53	0.64696
16.37	2.37	110.54	604.79	1.99	2.370	0.111	4.66	0.60479
16.38	2.33	109.33	534.42	1.99	2.330	0.109	4.69	0.53442
16.39	2.24	109.93	464.68	2.04	2.240	0.110	4.91	0.46468
16.4	2.17	109.26	442.6	2.04	2.170	0.109	5.04	0.4426
16.41	2.08	109.55	422.6	2.04	2.080	0.110	5.27	0.4226
16.42	2.01	111.3	421.52	2.04	2.010	0.111	5.54	0.42152
16.43	1.94	110.73	492.61	2.04	1.940	0.111	5.71	0.49261
16.44	1.86	108.37	527.3	2.04	1.860	0.108	5.83	0.5273
16.45	1.81	107.42	521.63	2.04	1.810	0.107	5.93	0.52163
16.46	1.81	102.74	471.26	2.04	1.810	0.103	5.68	0.47126
16.47	1.76	100.19	448.28	2.04	1.760	0.100	5.69	0.44828
16.48	1.67	98.63	387.46	2.04	1.670	0.099	5.91	0.38746
16.49	1.58	96.02	331.05	2.04	1.580	0.096	6.08	0.33105
16.5	1.51	94.42	271.49	2.09	1.510	0.094	6.25	0.27149
16.51	1.45	92.74	239.14	2.09	1.450	0.093	6.40	0.23914
16.52	1.36	92.13	226.62	2.09	1.360	0.092	6.77	0.22662
16.53	1.29	89.87	226.44	2.09	1.290	0.090	6.97	0.22644

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
16.54	1.23	87.9	237.25	2.09	1.230	0.088	7.15	0.23725
16.55	1.23	87.9	237.25	2.09	1.230	0.088	7.15	0.23725
16.56	1.15	86.21	235.99	2.09	1.150	0.086	7.50	0.23599
16.57	1.08	85.12	242.84	2.15	1.080	0.085	7.88	0.24284
16.58	1.02	82.9	246.71	2.15	1.020	0.083	8.13	0.24671
16.59	0.96	79.46	259.42	2.09	0.960	0.079	8.28	0.25942
16.6	0.91	76.88	267.44	2.15	0.910	0.077	8.45	0.26744
16.61	0.87	72.07	278.16	2.15	0.870	0.072	8.28	0.27816
16.62	0.85	65.35	287.53	2.15	0.850	0.065	7.69	0.28753
16.63	0.83	59.46	295.82	2.15	0.830	0.059	7.16	0.29582
16.64	0.82	54.27	309.61	2.15	0.820	0.054	6.62	0.30961
16.65	0.81	49.36	328.8	2.15	0.810	0.049	6.09	0.3288
16.66	0.81	43.66	339.52	2.15	0.810	0.044	5.39	0.33952
16.67	0.8	37.58	346.37	2.15	0.800	0.038	4.70	0.34637
16.68	0.8	32.1	355.29	2.09	0.800	0.032	4.01	0.35529
16.69	0.81	27.52	361.15	2.09	0.810	0.028	3.40	0.36115
16.7	0.81	23.25	362.59	2.15	0.810	0.023	2.87	0.36259
16.71	0.82	19.68	370.7	2.15	0.820	0.020	2.40	0.3707
16.72	0.83	17.13	388.09	2.15	0.830	0.017	2.06	0.38809
16.73	0.86	14.94	401.69	2.15	0.860	0.015	1.74	0.40169
16.74	0.9	13.53	418.45	2.09	0.900	0.014	1.50	0.41845
16.75	0.94	12.87	438.82	2.2	0.940	0.013	1.37	0.43882
16.76	1.01	12.39	468.82	2.15	1.010	0.012	1.23	0.46882
16.77	1.13	12.1	510.45	2.15	1.130	0.012	1.07	0.51045
16.78	1.32	11.78	536.04	2.2	1.320	0.012	0.89	0.53604
16.79	1.61	11.94	487.2	2.2	1.610	0.012	0.74	0.4872
16.8	1.99	12.74	419.44	2.2	1.990	0.013	0.64	0.41944
16.81	2.45	14.04	311.32	2.2	2.450	0.014	0.57	0.31132
16.82	2.87	15.67	192.47	2.2	2.870	0.016	0.55	0.19247
16.83	3.22	17.67	98.13	2.15	3.220	0.018	0.55	0.09813
16.84	3.47	19.49	40.28	2.15	3.470	0.019	0.56	0.04028
16.85	3.66	20.6	21.36	2.15	3.660	0.021	0.56	0.02136
16.86	3.78	19.94	4.78	2.15	3.780	0.020	0.53	0.00478
16.87	3.85	19.17	-2.25	2.2	3.850	0.019	0.50	-0.00225
16.88	3.85	19.17	-2.25	2.2	3.850	0.019	0.50	-0.00225
16.89	3.85	19.17	-2.25	2.2	3.850	0.019	0.50	-0.00225
16.9	3.93	20.51	77.58	2.2	3.930	0.021	0.52	0.07758
16.91	3.93	19.65	82.99	2.2	3.930	0.020	0.50	0.08299
16.92	3.91	17.99	87.04	2.15	3.910	0.018	0.46	0.08704
16.93	3.9	16.11	91.37	2.2	3.900	0.016	0.41	0.09137
16.94	3.91	15.38	96.59	2.2	3.910	0.015	0.39	0.09659
16.95	3.92	14.78	102.36	2.2	3.920	0.015	0.38	0.10236
16.96	3.91	14.71	106.51	2.2	3.910	0.015	0.38	0.10651
16.97	3.92	14.68	112.27	2.2	3.920	0.015	0.37	0.11227
16.98	3.96	14.9	118.4	2.2	3.960	0.015	0.38	0.1184
16.99	3.98	15.86	123.54	2.2	3.980	0.016	0.40	0.12354
17	4	16.31	129.84	2.2	4.000	0.016	0.41	0.12984
17.01	4.07	17.32	133.54	2.2	4.070	0.017	0.43	0.13354
17.02	4.15	18.5	136.78	2.2	4.150	0.019	0.45	0.13678
17.03	4.19	18.63	141.29	2.2	4.190	0.019	0.44	0.14129
17.04	4.25	19.84	147.23	2.2	4.250	0.020	0.47	0.14723
17.05	4.33	19.94	154.71	2.2	4.330	0.020	0.46	0.15471
17.06	4.42	20.45	161.47	2.2	4.420	0.020	0.46	0.16147
17.07	4.52	20.8	170.57	2.2	4.520	0.021	0.46	0.17057
17.08	4.63	20.67	178.95	2.2	4.630	0.021	0.45	0.17895
17.09	4.76	20.89	190.21	2.2	4.760	0.021	0.44	0.19021
17.1	4.91	22.1	201.21	2.2	4.910	0.022	0.45	0.20121

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.11	5.06	21.43	211.48	2.2	5.060	0.021	0.42	0.21148
17.12	5.23	20.8	222.38	2.2	5.230	0.021	0.40	0.22238
17.13	5.38	20.03	231.93	2.25	5.380	0.020	0.37	0.23193
17.14	5.53	18.98	240.76	2.2	5.530	0.019	0.34	0.24076
17.15	5.62	17.64	245.99	2.2	5.620	0.018	0.31	0.24599
17.16	5.7	17.13	246.98	2.2	5.700	0.017	0.30	0.24698
17.17	5.75	17.32	250.14	2.25	5.750	0.017	0.30	0.25014
17.18	5.81	17.64	249.95	2.25	5.810	0.018	0.30	0.24995
17.19	5.8	17.45	249.32	2.25	5.800	0.017	0.30	0.24932
17.2	5.82	17.23	247.61	2.2	5.820	0.017	0.30	0.24761
17.21	5.85	16.59	203.82	2.2	5.850	0.017	0.28	0.20382
17.22	5.88	16.4	165.62	2.25	5.880	0.016	0.28	0.16562
17.23	5.92	16.94	159.94	2.25	5.920	0.017	0.29	0.15994
17.24	5.96	17.13	164.98	2.25	5.960	0.017	0.29	0.16498
17.25	6	17.45	171.29	2.2	6.000	0.017	0.29	0.17129
17.26	6.07	18.28	169.76	2.25	6.070	0.018	0.30	0.16976
17.27	6.07	18.28	169.76	2.25	6.070	0.018	0.30	0.16976
17.28	6.14	19.14	173	2.25	6.140	0.019	0.31	0.173
17.29	6.23	19.87	175.26	2.25	6.230	0.020	0.32	0.17526
17.3	6.29	20.99	180.66	2.25	6.290	0.021	0.33	0.18066
17.31	6.37	21.43	166.43	2.25	6.370	0.021	0.34	0.16643
17.32	6.47	22.04	165.62	2.25	6.470	0.022	0.34	0.16562
17.33	6.54	22.32	177.51	2.25	6.540	0.022	0.34	0.17751
17.34	6.72	23.44	203.91	2.25	6.720	0.023	0.35	0.20391
17.35	6.85	24.27	190.76	2.25	6.850	0.024	0.35	0.19076
17.36	6.97	24.14	134.35	2.25	6.970	0.024	0.35	0.13435
17.37	7.05	25.09	122.81	2.25	7.050	0.025	0.36	0.12281
17.38	7.11	25.51	104.43	2.25	7.110	0.026	0.36	0.10443
17.39	7.18	26.08	94.07	2.25	7.180	0.026	0.36	0.09407
17.4	7.2	26.91	75.51	2.25	7.200	0.027	0.37	0.07551
17.41	7.19	28.09	62.08	2.25	7.190	0.028	0.39	0.06208
17.42	7.17	27.9	66.32	2.25	7.170	0.028	0.39	0.06632
17.43	7.11	27.64	79.38	2.25	7.110	0.028	0.39	0.07938
17.44	7.01	25.76	86.05	2.25	7.010	0.026	0.37	0.08605
17.45	6.86	25.6	92.09	2.25	6.860	0.026	0.37	0.09209
17.46	6.75	24.49	96.95	2.25	6.750	0.024	0.36	0.09695
17.47	6.61	23.41	100.47	2.25	6.610	0.023	0.35	0.10047
17.48	6.47	23.76	105.15	2.25	6.470	0.024	0.37	0.10515
17.49	6.32	23.34	108.76	2.25	6.320	0.023	0.37	0.10876
17.5	6.19	23.44	112.36	2.25	6.190	0.023	0.38	0.11236
17.51	6.01	23.66	115.43	2.25	6.010	0.024	0.39	0.11543
17.52	5.94	25.86	120.29	2.25	5.940	0.026	0.44	0.12029
17.53	5.81	25.95	122.27	2.25	5.810	0.026	0.45	0.12227
17.54	5.7	26.37	128.31	2.25	5.700	0.026	0.46	0.12831
17.55	5.63	24.78	135.34	2.25	5.630	0.025	0.44	0.13534
17.56	5.57	24.33	141.65	2.25	5.570	0.024	0.44	0.14165
17.57	5.54	25.8	150.3	2.25	5.540	0.026	0.47	0.1503
17.58	5.52	26.72	159.76	2.25	5.520	0.027	0.48	0.15976
17.59	5.56	27.29	170.3	2.25	5.560	0.027	0.49	0.1703
17.6	5.61	28.95	180.57	2.25	5.610	0.029	0.52	0.18057
17.61	5.71	30	191.66	2.25	5.710	0.030	0.53	0.19166
17.62	5.87	32.23	202.02	2.25	5.870	0.032	0.55	0.20202
17.63	6.03	35.41	198.32	2.25	6.030	0.035	0.59	0.19832
17.64	6.17	41.4	92.72	2.25	6.170	0.041	0.67	0.09272
17.65	6.25	48.31	40.28	2.25	6.250	0.048	0.77	0.04028
17.66	6.19	55.16	8.83	2.25	6.190	0.055	0.89	0.00883
17.67	6	62.64	-6.4	2.25	6.000	0.063	1.04	-0.0064

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.68	5.62	67.67	-14.96	2.3	5.620	0.068	1.20	-0.01496
17.69	5.23	72.42	-20.9	2.3	5.230	0.072	1.38	-0.0209
17.7	4.78	75.76	-23.88	2.3	4.780	0.076	1.58	-0.02388
17.71	4.33	76.65	-24.51	2.25	4.330	0.077	1.77	-0.02451
17.72	3.86	75.48	-18.29	2.3	3.860	0.075	1.96	-0.01829
17.73	3.45	71.21	-14.15	2.3	3.450	0.071	2.06	-0.01415
17.74	3.22	65.95	-10.09	2.3	3.220	0.066	2.05	-0.01009
17.75	3.07	69.23	-6.94	2.3	3.070	0.069	2.26	-0.00694
17.76	3	74.77	-1.98	2.3	3.000	0.075	2.49	-0.00198
17.77	2.92	84.81	1.71	2.3	2.920	0.085	2.90	0.00171
17.78	2.83	88.47	5.86	2.3	2.830	0.088	3.13	0.00586
17.79	2.76	89.01	11.71	2.3	2.760	0.089	3.23	0.01171
17.8	2.77	88.72	15.5	2.3	2.770	0.089	3.20	0.0155
17.81	2.83	86.02	18.83	2.3	2.830	0.086	3.04	0.01883
17.82	2.84	82.35	21.08	2.35	2.840	0.082	2.90	0.02108
17.83	2.81	83.53	24.96	2.35	2.810	0.084	2.97	0.02496
17.84	2.75	84.87	30.82	2.35	2.750	0.085	3.09	0.03082
17.85	2.68	87.8	38.11	2.35	2.680	0.088	3.28	0.03811
17.86	2.61	87.26	44.78	2.35	2.610	0.087	3.34	0.04478
17.87	2.61	85.7	53.43	2.35	2.610	0.086	3.28	0.05343
17.88	2.61	85.7	53.43	2.35	2.610	0.086	3.28	0.05343
17.89	2.61	85.7	53.43	2.35	2.610	0.086	3.28	0.05343
17.9	2.64	83.63	234.46	2.41	2.640	0.084	3.17	0.23446
17.91	2.58	85.12	171.56	2.41	2.580	0.085	3.30	0.17156
17.92	2.51	87.48	212.56	2.41	2.510	0.087	3.49	0.21256
17.93	2.42	90.32	265.72	2.41	2.420	0.090	3.73	0.26572
17.94	2.39	89.84	279.6	2.41	2.390	0.090	3.76	0.2796
17.95	2.4	86.27	282.3	2.41	2.400	0.086	3.59	0.2823
17.96	2.38	86.65	289.78	2.41	2.380	0.087	3.64	0.28978
17.97	2.32	86.88	296.81	2.41	2.320	0.087	3.74	0.29681
17.98	2.28	85.7	295.19	2.41	2.280	0.086	3.76	0.29519
17.99	2.25	84.49	296.45	2.41	2.250	0.084	3.76	0.29645
18	2.21	84.87	297.53	2.41	2.210	0.085	3.84	0.29753
18.01	2.17	85.12	300.87	2.41	2.170	0.085	3.92	0.30087
18.02	2.13	85.54	306.9	2.41	2.130	0.086	4.02	0.3069
18.03	2.09	85.83	314.92	2.41	2.090	0.086	4.11	0.31492
18.04	2.05	83.18	327.36	2.41	2.050	0.083	4.06	0.32736
18.05	2.04	78.6	341.14	2.46	2.040	0.079	3.85	0.34114
18.06	2.07	74.81	357.9	2.41	2.070	0.075	3.61	0.3579
18.07	2.08	73.56	374.39	2.46	2.080	0.074	3.54	0.37439
18.08	2.07	73.53	385.66	2.46	2.070	0.074	3.55	0.38566
18.09	2.04	72.7	393.76	2.46	2.040	0.073	3.56	0.39376
18.1	2.06	69.71	398.54	2.41	2.060	0.070	3.38	0.39854
18.11	2.14	66.21	407.28	2.41	2.140	0.066	3.09	0.40728
18.12	2.26	63.53	421.07	2.46	2.260	0.064	2.81	0.42107
18.13	2.41	61.69	439.54	2.41	2.410	0.062	2.56	0.43954
18.14	2.58	60.76	459.9	2.41	2.580	0.061	2.36	0.4599
18.15	2.72	58.12	471.8	2.41	2.720	0.058	2.14	0.4718
18.16	2.9	54.87	462.61	2.41	2.900	0.055	1.89	0.46261
18.17	3.12	54.58	369.62	2.41	3.120	0.055	1.75	0.36962
18.18	3.32	57.26	120.47	2.41	3.320	0.057	1.72	0.12047
18.19	3.5	63.25	18.92	2.41	3.500	0.063	1.81	0.01892
18.2	3.63	68.76	1.17	2.41	3.630	0.069	1.89	0.00117
18.21	3.76	72.2	-12.61	2.41	3.760	0.072	1.92	-0.01261
18.22	3.89	74.58	-15.95	2.41	3.890	0.075	1.92	-0.01595
18.23	4.01	76.43	-13.43	2.41	4.010	0.076	1.91	-0.01343
18.24	4.11	75.12	-11.62	2.41	4.110	0.075	1.83	-0.01162

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.25	4.19	68.92	-8.74	2.41	4.190	0.069	1.64	-0.00874
18.26	4.2	67.16	-4.23	2.46	4.200	0.067	1.60	-0.00423
18.27	4.22	62.39	2.16	2.41	4.220	0.062	1.48	0.00216
18.28	4.23	56.5	6.13	2.41	4.230	0.057	1.34	0.00613
18.29	4.21	52.39	9.1	2.46	4.210	0.052	1.24	0.0091
18.3	4.19	47	10.81	2.41	4.190	0.047	1.12	0.01081
18.31	4.16	44.46	11.98	2.41	4.160	0.044	1.07	0.01198
18.32	4.14	42.32	13.16	2.41	4.140	0.042	1.02	0.01316
18.33	4.13	41.65	13.97	2.41	4.130	0.042	1.01	0.01397
18.34	4.14	41.3	14.15	2.46	4.140	0.041	1.00	0.01415
18.35	4.15	46.4	15.86	2.41	4.150	0.046	1.12	0.01586
18.36	4.15	52.26	18.2	2.41	4.150	0.052	1.26	0.0182
18.37	4.17	58.41	20.72	2.41	4.170	0.058	1.40	0.02072
18.38	4.23	62.61	24.24	2.41	4.230	0.063	1.48	0.02424
18.39	4.29	66.08	31.09	2.41	4.290	0.066	1.54	0.03109
18.4	4.37	70.38	36.13	2.41	4.370	0.070	1.61	0.03613
18.41	4.48	73.47	39.83	2.41	4.480	0.073	1.64	0.03983
18.42	4.52	72.13	40.82	2.41	4.520	0.072	1.60	0.04082
18.43	4.39	74.36	38.57	2.41	4.390	0.074	1.69	0.03857
18.44	4.2	75.03	32.8	2.46	4.200	0.075	1.79	0.0328
18.45	3.97	74.9	28.02	2.41	3.970	0.075	1.89	0.02802
18.46	3.51	79.77	21.99	2.41	3.510	0.080	2.27	0.02199
18.47	3.01	84.42	22.89	2.41	3.010	0.084	2.80	0.02289
18.48	2.68	66.75	24.78	2.36	2.680	0.067	2.49	0.02478
18.49	2.42	60.57	36.94	2.36	2.420	0.061	2.50	0.03694
18.5	2.35	63.76	49.65	2.36	2.350	0.064	2.71	0.04965
18.51	2.31	65.44	191.48	2.36	2.310	0.065	2.83	0.19148
18.52	2.25	66.37	266.26	2.36	2.250	0.066	2.95	0.26626
18.53	2.21	67.42	318.26	2.36	2.210	0.067	3.05	0.31826
18.54	2.28	67.23	347.54	2.36	2.280	0.067	2.95	0.34754
18.55	2.45	67.61	388.45	2.36	2.450	0.068	2.76	0.38845
18.56	2.69	69.17	421.16	2.41	2.690	0.069	2.57	0.42116
18.57	2.87	70.41	432.69	2.36	2.870	0.070	2.45	0.43269
18.58	2.85	74.42	453.32	2.36	2.850	0.074	2.61	0.45332
18.59	2.82	77.13	454.05	2.41	2.820	0.077	2.74	0.45405
18.6	2.78	72.99	424.85	2.41	2.780	0.073	2.63	0.42485
18.61	2.76	68.44	388.81	2.41	2.760	0.068	2.48	0.38881
18.62	2.71	64.55	378.09	2.41	2.710	0.065	2.38	0.37809
18.63	2.67	66.18	387.01	2.41	2.670	0.066	2.48	0.38701
18.64	2.6	65.83	399.8	2.41	2.600	0.066	2.53	0.3998
18.65	2.56	64.49	417.73	2.41	2.560	0.064	2.52	0.41773
18.66	2.49	65.19	437.92	2.41	2.490	0.065	2.62	0.43792
18.67	2.48	63.95	447.56	2.41	2.480	0.064	2.58	0.44756
18.68	2.47	63.92	449.81	2.41	2.470	0.064	2.59	0.44981
18.69	2.36	64.11	457.38	2.41	2.360	0.064	2.72	0.45738
18.7	2.27	65.09	471.98	2.41	2.270	0.065	2.87	0.47198
18.71	2.22	65.92	488.47	2.41	2.220	0.066	2.97	0.48847
18.72	2.23	66.78	500.63	2.41	2.230	0.067	2.99	0.50063
18.73	2.28	66.62	512.25	2.41	2.280	0.067	2.92	0.51225
18.74	2.3	73.12	529.28	2.41	2.300	0.073	3.18	0.52928
18.75	2.26	74.42	542.26	2.41	2.260	0.074	3.29	0.54226
18.76	2.25	71.02	548.57	2.41	2.250	0.071	3.16	0.54857
18.77	2.27	67.61	548.12	2.41	2.270	0.068	2.98	0.54812
18.78	2.3	67.2	552.08	2.41	2.300	0.067	2.92	0.55208
18.79	2.32	68.66	558.48	2.41	2.320	0.069	2.96	0.55848
18.8	2.3	69.58	537.75	2.41	2.300	0.070	3.03	0.53775
18.81	2.28	70.38	539.74	2.41	2.280	0.070	3.09	0.53974

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.82	2.25	71.88	539.29	2.41	2.250	0.072	3.19	0.53929
18.83	2.23	72.7	531.09	2.41	2.230	0.073	3.26	0.53109
18.84	2.21	73.56	524.51	2.41	2.210	0.074	3.33	0.52451
18.85	2.18	78.53	514.6	2.41	2.180	0.079	3.60	0.5146
18.86	2.12	83.12	518.11	2.41	2.120	0.083	3.92	0.51811
18.87	2.12	83.12	518.11	2.41	2.120	0.083	3.92	0.51811
18.88	2.12	83.12	518.11	2.41	2.120	0.083	3.92	0.51811
18.89	2.3	100.73	789.6	2.41	2.300	0.101	4.38	0.7896
18.9	2.23	101.62	782.48	2.41	2.230	0.102	4.56	0.78248
18.91	2.2	98.5	764.73	2.41	2.200	0.099	4.48	0.76473
18.92	2.19	95.82	752.84	2.41	2.190	0.096	4.38	0.75284
18.93	2.15	93.91	742.84	2.41	2.150	0.094	4.37	0.74284
18.94	2.1	93.98	742.84	2.41	2.100	0.094	4.48	0.74284
18.95	2.06	95.09	759.87	2.41	2.060	0.095	4.62	0.75987
18.96	2.08	91.43	766.62	2.41	2.080	0.091	4.40	0.76662
18.97	2.12	85.41	770.59	2.41	2.120	0.085	4.03	0.77059
18.98	2.17	80.73	775.82	2.41	2.170	0.081	3.72	0.77582
18.99	2.18	77.04	775.82	2.41	2.180	0.077	3.53	0.77582
19	2.21	71.27	768.88	2.41	2.210	0.071	3.22	0.76888
19.01	2.23	68.28	763.38	2.41	2.230	0.068	3.06	0.76338
19.02	2.22	67.29	750.5	2.41	2.220	0.067	3.03	0.7505
19.03	2.2	67.42	726.17	2.47	2.200	0.067	3.06	0.72617
19.04	2.19	69.2	689.13	2.47	2.190	0.069	3.16	0.68913
19.05	2.14	73.85	660.12	2.47	2.140	0.074	3.45	0.66012
19.06	2.1	77.35	631.28	2.42	2.100	0.077	3.68	0.63128
19.07	2.08	77.7	606.69	2.47	2.080	0.078	3.74	0.60669
19.08	2.04	79.11	598.13	2.47	2.040	0.079	3.88	0.59813
19.09	2	80.86	587.04	2.42	2.000	0.081	4.04	0.58704
19.1	2.02	84.01	577.31	2.42	2.020	0.084	4.16	0.57731
19.11	2.03	90.32	571	2.42	2.030	0.090	4.45	0.571
19.12	2	96.62	568.39	2.42	2.000	0.097	4.83	0.56839
19.13	1.95	103.4	573.89	2.42	1.950	0.103	5.30	0.57389
19.14	1.92	108.28	575.51	2.42	1.920	0.108	5.64	0.57551
19.15	1.91	109.68	573.53	2.42	1.910	0.110	5.74	0.57353
19.16	1.92	105.79	563.52	2.42	1.920	0.106	5.51	0.56352
19.17	1.92	103.6	561.27	2.42	1.920	0.104	5.40	0.56127
19.18	1.96	100.82	548.57	2.42	1.960	0.101	5.14	0.54857
19.19	1.98	97.77	538.84	2.42	1.980	0.098	4.94	0.53884
19.2	1.97	96.27	537.21	2.42	1.970	0.096	4.89	0.53721
19.21	1.95	95.63	536.04	2.42	1.950	0.096	4.90	0.53604
19.22	1.94	96.05	526.31	2.42	1.940	0.096	4.95	0.52631
19.23	1.94	95.12	513.79	2.42	1.940	0.095	4.90	0.51379
19.24	1.91	93.95	503.42	2.42	1.910	0.094	4.92	0.50342
19.25	1.88	92.9	492.7	2.42	1.880	0.093	4.94	0.4927
19.26	1.86	91.56	485.58	2.42	1.860	0.092	4.92	0.48558
19.27	1.83	91.08	480.18	2.42	1.830	0.091	4.98	0.48018
19.28	1.8	91.62	476.12	2.42	1.800	0.092	5.09	0.47612
19.29	1.78	93.66	475.76	2.42	1.780	0.094	5.26	0.47576
19.3	1.78	95.35	475.94	2.42	1.780	0.095	5.36	0.47594
19.31	1.78	96.05	456.84	2.42	1.780	0.096	5.40	0.45684
19.32	1.81	95.03	426.2	2.42	1.810	0.095	5.25	0.4262
19.33	1.82	93.21	415.84	2.42	1.820	0.093	5.12	0.41584
19.34	1.8	92.54	415.03	2.42	1.800	0.093	5.14	0.41503
19.35	1.75	91.59	415.03	2.42	1.750	0.092	5.23	0.41503
19.36	1.73	90.83	406.11	2.42	1.730	0.091	5.25	0.40611
19.37	1.73	88.63	393.22	2.42	1.730	0.089	5.12	0.39322
19.38	1.71	88.91	385.47	2.38	1.710	0.089	5.20	0.38547

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 01

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
19.39	1.7	88.98	378.09	2.38	1.700	0.089	5.23	0.37809
19.4	1.69	88.91	370.7	2.38	1.690	0.089	5.26	0.3707
19.41	1.69	90.19	365.38	2.38	1.690	0.090	5.34	0.36538
19.42	1.7	90.92	363.31	2.38	1.700	0.091	5.35	0.36331
19.43	1.68	91.94	359.07	2.38	1.680	0.092	5.47	0.35907
19.44	1.64	93.4	352.59	2.38	1.640	0.093	5.70	0.35259
19.45	1.51	97.04	327.18	2.38	1.510	0.097	6.43	0.32718
19.46	1.44	98.75	309.88	2.38	1.440	0.099	6.86	0.30988
19.47	1.37	96.62	291.4	2.38	1.370	0.097	7.05	0.2914
19.48	1.33	93.28	277.98	2.38	1.330	0.093	7.01	0.27798
19.49	1.28	91.02	272.84	2.38	1.280	0.091	7.11	0.27284
19.5	1.25	88.66	269.15	2.38	1.250	0.089	7.09	0.26915
19.51	1.23	86.46	267.53	2.38	1.230	0.086	7.03	0.26753
19.52	1.21	85.44	268.34	2.38	1.210	0.085	7.06	0.26834
19.53	1.18	83.79	275.64	2.38	1.180	0.084	7.10	0.27564
19.54	1.18	80.32	282.75	2.38	1.180	0.080	6.81	0.28275
19.55	1.18	76.94	288.25	2.38	1.180	0.077	6.52	0.28825
19.56	1.18	73.37	292.76	2.38	1.180	0.073	6.22	0.29276
19.57	1.18	69.62	297.71	2.38	1.180	0.070	5.90	0.29771
19.58	1.17	65.79	306.27	2.38	1.170	0.066	5.62	0.30627
19.59	1.17	62.8	317.71	2.38	1.170	0.063	5.37	0.31771
19.6	1.18	58.5	330.78	2.38	1.180	0.059	4.96	0.33078
19.61	1.2	53.88	343.67	2.38	1.200	0.054	4.49	0.34367
19.62	1.21	50.22	354.66	2.42	1.210	0.050	4.15	0.35466
19.63	1.22	47.07	362.41	2.42	1.220	0.047	3.86	0.36241
19.64	1.23	42.9	368.35	2.38	1.230	0.043	3.49	0.36835
19.65	1.22	39.58	371.87	2.42	1.220	0.040	3.24	0.37187
19.66	1.21	38.34	373.76	2.42	1.210	0.038	3.17	0.37376
19.67	1.19	37.64	377.46	2.48	1.190	0.038	3.16	0.37746
19.68	1.19	37.2	380.79	2.48	1.190	0.037	3.13	0.38079
19.69	1.18	36.65	381.87	2.48	1.180	0.037	3.11	0.38187
19.7	1.18	36.3	383.04	2.48	1.180	0.036	3.08	0.38304
19.71	1.17	35.92	382.77	2.48	1.170	0.036	3.07	0.38277
19.72	1.16	35.38	383.22	2.48	1.160	0.035	3.05	0.38322
19.73	1.15	34.23	382.59	2.48	1.150	0.034	2.98	0.38259
19.74	1.14	32.36	378.81	2.48	1.140	0.032	2.84	0.37881
19.75	1.12	30.6	372.86	2.48	1.120	0.031	2.73	0.37286
19.76	1.09	28.66	367.45	2.48	1.090	0.029	2.63	0.36745
19.77	1.06	26.56	363.13	2.48	1.060	0.027	2.51	0.36313
19.78	1.04	24.36	362.32	2.48	1.040	0.024	2.34	0.36232
19.79	1.02	22.23	360.43	2.53	1.020	0.022	2.18	0.36043
19.8	0.99	20.32	355.11	2.53	0.990	0.020	2.05	0.35511
19.81	0.97	18.38	351.32	2.53	0.970	0.018	1.89	0.35132
19.82	0.94	16.69	350.15	2.53	0.940	0.017	1.78	0.35015
19.83	0.92	15.03	351.68	2.59	0.920	0.015	1.63	0.35168
19.84	0.91	12.96	363.4	2.59	0.910	0.013	1.42	0.3634
19.85	0.91	12.26	371.6	2.59	0.910	0.012	1.35	0.3716
19.86	0.91	12.26	371.6	2.59	0.910	0.012	1.35	0.3716
19.87	0.92	11.43	379.71	2.59	0.920	0.011	1.24	0.37971
19.88	0.96	10.54	399.62	2.59	0.960	0.011	1.10	0.39962
19.89	0.98	10.16	410.34	2.65	0.980	0.010	1.04	0.41034
19.9	1.01	10.1	425.3	2.59	1.010	0.010	1.00	0.4253
19.91	1.02	10.63	428.36	2.59	1.020	0.011	1.04	0.42836
19.92	1.03	15.26	429.36	2.59	1.030	0.015	1.48	0.42936
19.93	0.96	15.35	429.58	2.59	0.960	0.015	1.60	0.42958
19.94	0.95	14.95	429.98	2.59	0.950	0.015	1.57	0.42998
19.95	0.96	13.58	431.26	2.59	0.960	0.014	1.41	0.43126

COMMITTENTE:	TERNA	CANTIERE:	Poggio Renatico	PROVA	CPTU 01			
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	**MPa**	**KPa**	**KPa**	**°**	**MPa**	**MPa**	**%**	
19.96	0.93	13.85	432.56	2.59	0.930	0.014	1.49	0.43256
19.97	1.05	14.05	432.89	2.62	1.050	0.014	1.34	0.43289
19.98	1.08	12.06	434.21	2.62	1.080	0.012	1.12	0.43421
19.99	0.98	14.63	435.26	2.62	0.980	0.015	1.49	0.43526
20	0.96	13.26	436.48	2.62	0.960	0.013	1.38	0.43648
20.01	0.94	13.2	436.98	2.62	0.940	0.013	1.40	0.43698
20.02	0.93	13.45	440.59	2.62	0.930	0.013	1.45	0.44059
20.03	0.95	12.41	442.85	2.62	0.950	0.012	1.31	0.44285

PROVA PENETROMETRICA STATICA

secondo Raccomandazioni AGI (1977)

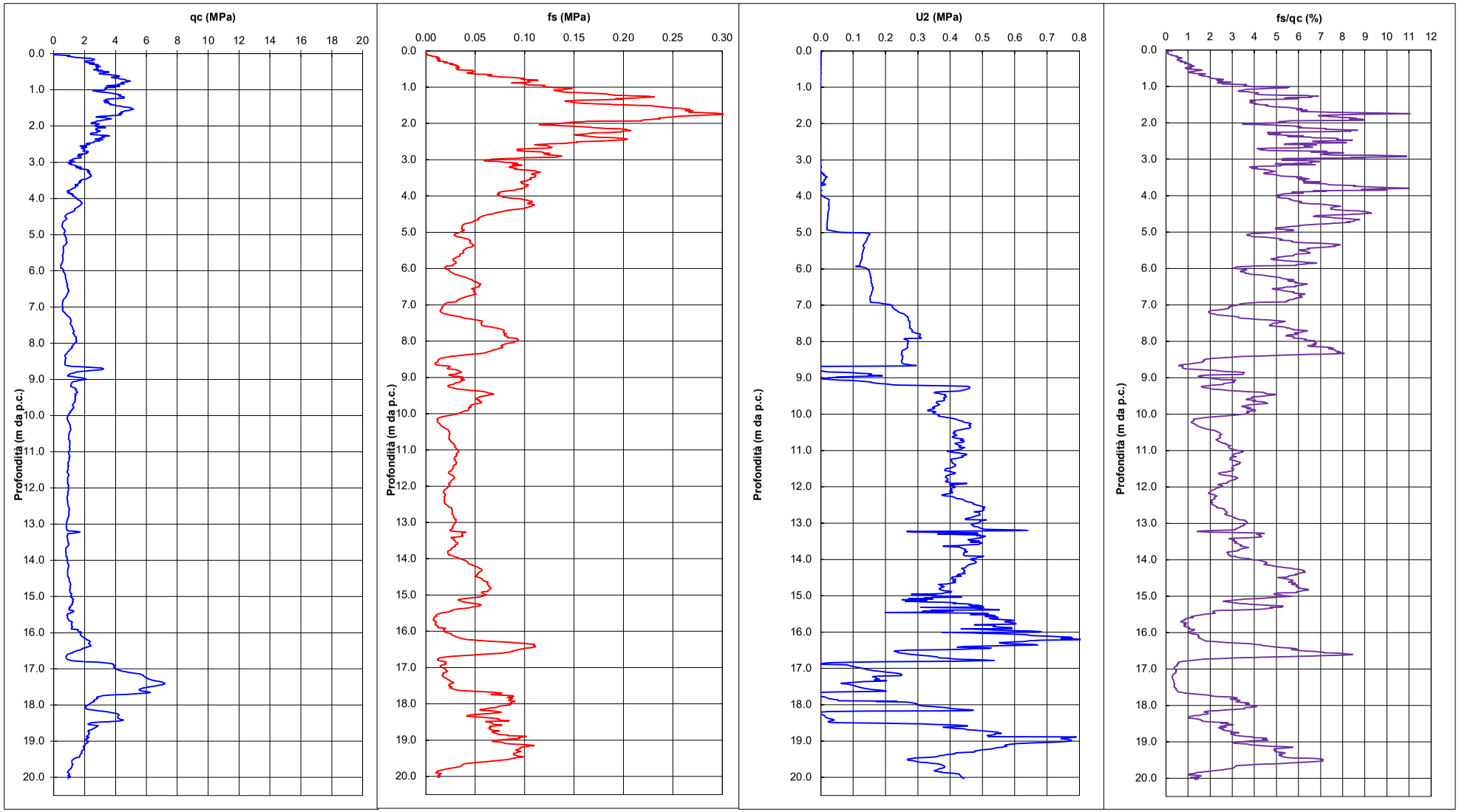
	Data giu-21		COMM. 000-20	PAG. 1	DI 1

Committente	**TERNA**						
Cantiere	**Poggio Renatico**						
N° Prova **CPTU 01**	Data prova **24/06/2021**	Operatore G.A.					

Punta N.	MKJ542	Quota p.c.:	0.00	m.s.l.m.	Coordinate **E**	0.00	**N** 0.00
Preforo	0.00 m	Livello H_2O	0.00	m da p.c.	Profondità finale	20.03	m da p.c.

NOTE

COMMITTENTE: ERM - ENI



COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.01	0.01	0.04	0.35	3.36	0.010	0.000	0.40	0.00035
0.02	0.03	0.03	0.45	3.36	0.030	0.000	0.10	0.00045
0.03	0.09	0.13	1.35	3.43	0.090	0.000	0.14	0.00135
0.04	0.18	0.13	2.52	3.56	0.180	0.000	0.07	0.00252
0.05	0.38	0.83	4.05	3.56	0.380	0.001	0.22	0.00405
0.06	1.78	1.5	5.5	3.93	1.780	0.002	0.08	0.0055
0.07	2.65	1.94	4.78	4.03	2.650	0.002	0.07	0.00478
0.08	3	2.77	4.14	4.1	3.000	0.003	0.09	0.00414
0.09	3.25	4.87	3.78	4.1	3.250	0.005	0.15	0.00378
0.1	3.5	7.74	3.51	4.21	3.500	0.008	0.22	0.00351
0.11	3.79	7.01	3.51	4.21	3.790	0.007	0.18	0.00351
0.12	4	8.44	3.33	4.18	4.000	0.008	0.21	0.00333
0.13	4.15	13.38	3.24	4.22	4.150	0.013	0.32	0.00324
0.14	4.02	12.58	3.06	4.22	4.020	0.013	0.31	0.00306
0.15	3.91	16.53	2.97	4.22	3.910	0.017	0.42	0.00297
0.16	3.87	18.95	2.97	4.3	3.870	0.019	0.49	0.00297
0.17	3.9	17.2	2.97	4.3	3.900	0.017	0.44	0.00297
0.18	3.86	21.56	2.88	4.27	3.860	0.022	0.56	0.00288
0.19	3.83	22.74	2.88	4.27	3.830	0.023	0.59	0.00288
0.2	3.89	21.69	2.79	4.32	3.890	0.022	0.56	0.00279
0.21	3.89	21.69	2.79	4.32	3.890	0.022	0.56	0.00279
0.22	3.33	24.74	2.61	4.3	3.330	0.025	0.74	0.00261
0.23	3.24	26.18	2.61	4.37	3.240	0.026	0.81	0.00261
0.24	3.36	32.51	2.61	4.37	3.360	0.033	0.97	0.00261
0.25	3.27	39.71	2.61	4.37	3.270	0.040	1.21	0.00261
0.26	3.31	39.52	2.7	4.37	3.310	0.040	1.19	0.0027
0.27	3.31	43.53	2.7	4.37	3.310	0.044	1.32	0.0027
0.28	3.08	47.1	2.61	4.37	3.080	0.047	1.53	0.00261
0.29	3.08	45.73	2.52	4.37	3.080	0.046	1.48	0.00252
0.3	2.92	48.15	2.52	4.39	2.920	0.048	1.65	0.00252
0.31	2.77	51.18	2.43	4.37	2.770	0.051	1.85	0.00243
0.32	2.5	51.34	2.25	4.37	2.500	0.051	2.05	0.00225
0.33	2.41	57	2.34	4.37	2.410	0.057	2.37	0.00234
0.34	2.54	52.99	2.34	4.46	2.540	0.053	2.09	0.00234
0.35	2.8	47.45	2.43	4.46	2.800	0.047	1.69	0.00243
0.36	2.9	44.17	2.52	4.44	2.900	0.044	1.52	0.00252
0.37	2.98	46.15	2.52	4.44	2.980	0.046	1.55	0.00252
0.38	3.06	43.6	2.52	4.44	3.060	0.044	1.42	0.00252
0.39	3.19	43.63	2.61	4.44	3.190	0.044	1.37	0.00261
0.4	3.23	42.55	2.61	4.46	3.230	0.043	1.32	0.00261
0.41	3.28	41.37	2.61	4.46	3.280	0.041	1.26	0.00261
0.42	3.48	37.61	2.7	4.46	3.480	0.038	1.08	0.0027
0.43	3.65	34.39	2.79	4.46	3.650	0.034	0.94	0.00279
0.44	3.8	32.51	2.79	4.54	3.800	0.033	0.86	0.00279
0.45	3.65	34.78	2.7	4.56	3.650	0.035	0.95	0.0027
0.46	3.29	47.58	2.52	4.56	3.290	0.048	1.45	0.00252
0.47	3.06	61.24	2.52	4.54	3.060	0.061	2.00	0.00252
0.48	3.25	60.7	2.61	4.54	3.250	0.061	1.87	0.00261
0.49	3.58	56.34	2.7	4.61	3.580	0.056	1.57	0.0027
0.5	3.57	57.23	2.7	4.61	3.570	0.057	1.60	0.0027
0.51	3.56	61.49	2.61	4.61	3.560	0.061	1.73	0.00261
0.52	3.6	64.74	2.7	4.61	3.600	0.065	1.80	0.0027
0.53	3.79	64.42	2.79	4.61	3.790	0.064	1.70	0.00279
0.54	3.91	62.26	2.79	4.61	3.910	0.062	1.59	0.00279
0.55	4.01	61.91	2.88	4.61	4.010	0.062	1.54	0.00288
0.56	4.14	64.9	2.88	4.54	4.140	0.065	1.57	0.00288
0.57	4.21	65.7	2.97	4.54	4.210	0.066	1.56	0.00297

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.58	4.31	65.44	2.97	4.54	4.310	0.065	1.52	0.00297
0.59	4.32	67.45	2.88	4.54	4.320	0.067	1.56	0.00288
0.6	4.29	68.76	2.88	4.54	4.290	0.069	1.60	0.00288
0.61	4.02	73.76	2.79	4.54	4.020	0.074	1.83	0.00279
0.62	3.95	81.05	2.79	4.54	3.950	0.081	2.05	0.00279
0.63	3.65	94.81	2.7	4.56	3.650	0.095	2.60	0.0027
0.64	3.75	95.16	2.7	4.56	3.750	0.095	2.54	0.0027
0.65	3.85	95.22	2.7	4.56	3.850	0.095	2.47	0.0027
0.66	3.72	93.12	2.61	4.56	3.720	0.093	2.50	0.00261
0.67	3.77	91.65	2.7	4.49	3.770	0.092	2.43	0.0027
0.68	3.93	92.48	2.61	4.49	3.930	0.092	2.35	0.00261
0.69	3.71	92.61	2.61	4.49	3.710	0.093	2.50	0.00261
0.7	3.9	90.22	2.61	4.41	3.900	0.090	2.31	0.00261
0.71	3.95	90.25	2.61	4.41	3.950	0.090	2.28	0.00261
0.72	3.78	91.33	2.61	4.41	3.780	0.091	2.42	0.00261
0.73	3.67	96.97	2.52	4.41	3.670	0.097	2.64	0.00252
0.74	3.44	103.66	2.43	4.41	3.440	0.104	3.01	0.00243
0.75	3.11	114.96	2.34	4.39	3.110	0.115	3.70	0.00234
0.76	3.24	109.33	2.34	4.39	3.240	0.109	3.37	0.00234
0.77	3.44	105.86	2.43	4.39	3.440	0.106	3.08	0.00243
0.78	3.57	106.84	2.43	4.39	3.570	0.107	2.99	0.00243
0.79	3.57	107.54	2.43	4.34	3.570	0.108	3.01	0.00243
0.8	3.62	110.06	2.43	4.34	3.620	0.110	3.04	0.00243
0.81	3.76	111.59	2.43	4.32	3.760	0.112	2.97	0.00243
0.82	4.03	106.62	2.43	4.32	4.030	0.107	2.65	0.00243
0.83	3.86	113.95	2.43	4.32	3.860	0.114	2.95	0.00243
0.84	3.72	118.91	2.34	4.32	3.720	0.119	3.20	0.00234
0.85	3.68	115.38	2.34	4.32	3.680	0.115	3.14	0.00234
0.86	3.64	117.29	2.25	4.32	3.640	0.117	3.22	0.00225
0.87	3.64	117.29	2.25	4.32	3.640	0.117	3.22	0.00225
0.88	3.64	117.29	2.25	4.32	3.640	0.117	3.22	0.00225
0.89	3.38	99.2	-0.09	4.34	3.380	0.099	2.93	-0.00009
0.9	3.33	104.23	-0.09	4.27	3.330	0.104	3.13	-0.00009
0.91	3.28	106.94	-0.18	4.27	3.280	0.107	3.26	-0.00018
0.92	3.27	110.79	-0.18	4.27	3.270	0.111	3.39	-0.00018
0.93	3.3	115	-0.18	4.27	3.300	0.115	3.48	-0.00018
0.94	3.32	111.24	-0.27	4.27	3.320	0.111	3.35	-0.00027
0.95	3.33	109.74	-0.27	4.27	3.330	0.110	3.30	-0.00027
0.96	3.38	109.07	-0.27	4.27	3.380	0.109	3.23	-0.00027
0.97	3.46	110.63	-0.27	4.27	3.460	0.111	3.20	-0.00027
0.98	3.6	108.91	-0.27	4.27	3.600	0.109	3.03	-0.00027
0.99	3.64	107.29	-0.27	4.27	3.640	0.107	2.95	-0.00027
1	3.79	104.42	-0.18	4.27	3.790	0.104	2.76	-0.00018
1.01	3.85	101.08	-0.18	4.25	3.850	0.101	2.63	-0.00018
1.02	3.79	104.23	-0.27	4.25	3.790	0.104	2.75	-0.00027
1.03	3.84	105.92	-0.18	4.25	3.840	0.106	2.76	-0.00018
1.04	3.9	107.26	-0.27	4.27	3.900	0.107	2.75	-0.00027
1.05	4.04	107.1	-0.18	4.27	4.040	0.107	2.65	-0.00018
1.06	4.09	105.86	-0.18	4.25	4.090	0.106	2.59	-0.00018
1.07	4.23	107.51	-0.18	4.2	4.230	0.108	2.54	-0.00018
1.08	4.36	108.85	-0.18	4.17	4.360	0.109	2.50	-0.00018
1.09	4.48	111.43	-0.27	4.2	4.480	0.111	2.49	-0.00027
1.1	4.46	113.31	-0.27	4.2	4.460	0.113	2.54	-0.00027
1.11	4.41	121.52	-0.36	4.2	4.410	0.122	2.76	-0.00036
1.12	4.32	125.09	-0.18	4.2	4.320	0.125	2.90	-0.00018
1.13	4.49	120.31	-0.27	4.17	4.490	0.120	2.68	-0.00027
1.14	4.6	116.49	-0.18	4.17	4.600	0.116	2.53	-0.00018

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.15	4.71	113.63	-0.18	4.17	4.710	0.114	2.41	-0.00018
1.16	4.66	113.91	-0.27	4.17	4.660	0.114	2.44	-0.00027
1.17	4.33	120.12	-0.36	4.17	4.330	0.120	2.77	-0.00036
1.18	4.05	129.14	-0.45	4.17	4.050	0.129	3.19	-0.00045
1.19	4.11	130.22	-0.45	4.17	4.110	0.130	3.17	-0.00045
1.2	4.28	137.42	-0.45	4.17	4.280	0.137	3.21	-0.00045
1.21	4.07	135.73	-0.45	4.17	4.070	0.136	3.33	-0.00045
1.22	3.69	139.26	-0.54	4.17	3.690	0.139	3.77	-0.00054
1.23	3.61	141.43	-0.54	4.17	3.610	0.141	3.92	-0.00054
1.24	3.67	138.53	-0.54	4.17	3.670	0.139	3.77	-0.00054
1.25	3.62	132.96	-0.54	4.17	3.620	0.133	3.67	-0.00054
1.26	3.66	134.07	-0.54	4.17	3.660	0.134	3.66	-0.00054
1.27	3.96	130.47	-0.45	4.17	3.960	0.130	3.29	-0.00045
1.28	4.16	129.42	-0.45	4.17	4.160	0.129	3.11	-0.00045
1.29	4.05	136.87	-0.54	4.17	4.050	0.137	3.38	-0.00054
1.3	3.89	148.05	-0.63	4.17	3.890	0.148	3.81	-0.00063
1.31	3.79	157.54	-0.63	4.17	3.790	0.158	4.16	-0.00063
1.32	3.88	163.43	-0.9	4.17	3.880	0.163	4.21	-0.0009
1.33	4.02	161.65	-0.72	4.17	4.020	0.162	4.02	-0.00072
1.34	4.14	157.64	-0.81	4.17	4.140	0.158	3.81	-0.00081
1.35	4.2	161.08	-1.35	4.17	4.200	0.161	3.84	-0.00135
1.36	4.38	170.12	-2.34	4.17	4.380	0.170	3.88	-0.00234
1.37	4.34	179.61	-3.51	4.17	4.340	0.180	4.14	-0.00351
1.38	4.35	192.45	-2.79	4.17	4.350	0.192	4.42	-0.00279
1.39	4.48	199.36	-1.98	4.1	4.480	0.199	4.45	-0.00198
1.4	4.62	201.49	-4.23	4.1	4.620	0.201	4.36	-0.00423
1.41	4.78	203.15	-3.06	4.1	4.780	0.203	4.25	-0.00306
1.42	4.86	206.65	-4.78	4.1	4.860	0.207	4.25	-0.00478
1.43	4.91	205.79	-5.14	4.1	4.910	0.206	4.19	-0.00514
1.44	4.94	203.05	-4.51	4.1	4.940	0.203	4.11	-0.00451
1.45	4.96	203.31	-4.33	4.1	4.960	0.203	4.10	-0.00433
1.46	5.08	203.08	-5.68	4.1	5.080	0.203	4.00	-0.00568
1.47	5.14	199.58	-5.41	4.13	5.140	0.200	3.88	-0.00541
1.48	5.08	198.69	-6.04	4.13	5.080	0.199	3.91	-0.00604
1.49	4.97	199.96	-4.78	4.13	4.970	0.200	4.02	-0.00478
1.5	5.02	199.29	-5.05	4.06	5.020	0.199	3.97	-0.00505
1.51	4.86	200.63	-3.87	4.06	4.860	0.201	4.13	-0.00387
1.52	4.74	202.38	-4.87	4.06	4.740	0.202	4.27	-0.00487
1.53	4.8	203.72	-3.87	4.06	4.800	0.204	4.24	-0.00387
1.54	4.99	203.69	-3.51	4.06	4.990	0.204	4.08	-0.00351
1.55	4.98	209.36	-4.14	4.06	4.980	0.209	4.20	-0.00414
1.56	4.81	210.44	-4.96	4.06	4.810	0.210	4.38	-0.00496
1.57	4.77	205.47	-3.87	4.06	4.770	0.205	4.31	-0.00387
1.58	4.86	200.98	-1.98	3.96	4.860	0.201	4.14	-0.00198
1.59	5.01	194.36	-1.8	3.96	5.010	0.194	3.88	-0.0018
1.6	4.99	193.85	-1.35	3.96	4.990	0.194	3.88	-0.00135
1.61	4.68	196.81	-1.08	3.96	4.680	0.197	4.21	-0.00108
1.62	4.68	199.52	-1.71	3.96	4.680	0.200	4.26	-0.00171
1.63	4.46	208.78	-1.17	3.96	4.460	0.209	4.68	-0.00117
1.64	4.37	212.16	-1.53	3.89	4.370	0.212	4.85	-0.00153
1.65	4.44	215.02	-10.09	3.89	4.440	0.215	4.84	-0.01009
1.66	4.6	216.33	-11.17	3.89	4.600	0.216	4.70	-0.01117
1.67	4.78	219.99	-6.76	3.89	4.780	0.220	4.60	-0.00676
1.68	4.23	244.23	-8.11	3.89	4.230	0.244	5.77	-0.00811
1.69	4.4	246.49	-7.75	3.81	4.400	0.246	5.60	-0.00775
1.7	4.58	245.41	-3.24	3.81	4.580	0.245	5.36	-0.00324
1.71	4.76	245.02	-2.43	3.81	4.760	0.245	5.15	-0.00243

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.72	4.75	250.12	-3.69	3.81	4.750	0.250	5.27	-0.00369
1.73	3.99	260.44	-3.33	3.81	3.990	0.260	6.53	-0.00333
1.74	3.81	260.34	-2.7	3.81	3.810	0.260	6.83	-0.0027
1.75	3.67	262.44	-2.07	3.81	3.670	0.262	7.15	-0.00207
1.76	3.75	256.71	-1.89	3.74	3.750	0.257	6.85	-0.00189
1.77	3.27	254.04	-1.89	3.74	3.270	0.254	7.77	-0.00189
1.78	3.28	241.3	-1.8	3.74	3.280	0.241	7.36	-0.0018
1.79	3.47	227.16	-1.8	3.74	3.470	0.227	6.55	-0.0018
1.8	3.32	212.16	-1.8	3.74	3.320	0.212	6.39	-0.0018
1.81	3.12	190.79	-1.8	3.74	3.120	0.191	6.12	-0.0018
1.82	2.89	185.19	-1.8	3.74	2.890	0.185	6.41	-0.0018
1.83	2.97	173.63	-1.8	3.74	2.970	0.174	5.85	-0.0018
1.84	3.18	147.8	-1.71	3.67	3.180	0.148	4.65	-0.00171
1.85	3.4	130.98	-1.71	3.67	3.400	0.131	3.85	-0.00171
1.86	3.29	126.11	-1.89	3.67	3.290	0.126	3.83	-0.00189
1.87	3.03	120.44	-1.71	3.65	3.030	0.120	3.97	-0.00171
1.88	3.32	113.31	-1.62	3.65	3.320	0.113	3.41	-0.00162
1.89	3.14	113.63	-1.71	3.65	3.140	0.114	3.62	-0.00171
1.9	2.86	116.17	-1.8	3.65	2.860	0.116	4.06	-0.0018
1.91	2.86	116.17	-1.8	3.65	2.860	0.116	4.06	-0.0018
1.92	2.86	116.17	-1.8	3.65	2.860	0.116	4.06	-0.0018
1.93	3.17	96.43	-1.53	3.57	3.170	0.096	3.04	-0.00153
1.94	3.21	93.85	-1.62	3.5	3.210	0.094	2.92	-0.00162
1.95	3.18	99.14	-1.71	3.48	3.180	0.099	3.12	-0.00171
1.96	2.72	111.33	-1.8	3.48	2.720	0.111	4.09	-0.0018
1.97	2.76	115.41	-1.8	3.48	2.760	0.115	4.18	-0.0018
1.98	2.85	113.47	-1.8	3.48	2.850	0.113	3.98	-0.0018
1.99	2.96	110.79	-1.8	3.4	2.960	0.111	3.74	-0.0018
2	2.93	110.41	-1.89	3.4	2.930	0.110	3.77	-0.00189
2.01	2.96	107.26	-2.07	3.38	2.960	0.107	3.62	-0.00207
2.02	2.91	111.49	-2.16	3.38	2.910	0.111	3.83	-0.00216
2.03	2.94	116.43	-2.07	3.28	2.940	0.116	3.96	-0.00207
2.04	3.41	116.4	-1.89	3.28	3.410	0.116	3.41	-0.00189
2.05	3.41	118.69	-1.98	3.28	3.410	0.119	3.48	-0.00198
2.06	3.33	124.8	-1.98	3.26	3.330	0.125	3.75	-0.00198
2.07	3.26	129.04	-1.89	3.18	3.260	0.129	3.96	-0.00189
2.08	3.1	132.54	-1.89	3.18	3.100	0.133	4.28	-0.00189
2.09	3.27	134.42	-1.8	3.18	3.270	0.134	4.11	-0.0018
2.1	3.33	136.46	-1.71	3.18	3.330	0.136	4.10	-0.00171
2.11	3.36	141.27	-1.71	3.16	3.360	0.141	4.20	-0.00171
2.12	3.36	143.5	-1.71	3.16	3.360	0.144	4.27	-0.00171
2.13	3.45	137.83	-1.71	3.16	3.450	0.138	4.00	-0.00171
2.14	3.33	138.24	-1.89	3.09	3.330	0.138	4.15	-0.00189
2.15	3.26	142.61	-1.89	3.09	3.260	0.143	4.37	-0.00189
2.16	3.25	143.63	-1.89	3.09	3.250	0.144	4.42	-0.00189
2.17	3.27	142.93	-1.89	3.07	3.270	0.143	4.37	-0.00189
2.18	3	145.28	-1.98	3.07	3.000	0.145	4.84	-0.00198
2.19	2.91	147.93	-2.07	3.07	2.910	0.148	5.08	-0.00207
2.2	2.93	149.8	-1.98	3.07	2.930	0.150	5.11	-0.00198
2.21	2.96	147.8	-1.98	3.07	2.960	0.148	4.99	-0.00198
2.22	3	148.34	-1.98	3.07	3.000	0.148	4.94	-0.00198
2.23	2.79	154.01	-2.07	3.07	2.790	0.154	5.52	-0.00207
2.24	2.79	156.65	-2.07	3.07	2.790	0.157	5.61	-0.00207
2.25	2.79	162.51	-2.16	3.07	2.790	0.163	5.82	-0.00216
2.26	2.54	162.77	-2.16	3.05	2.540	0.163	6.41	-0.00216
2.27	2.44	164.99	-2.25	3.05	2.440	0.165	6.76	-0.00225
2.28	2.31	166.4	-2.25	3.05	2.310	0.166	7.20	-0.00225

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.29	2.17	169.2	-2.25	3.05	2.170	0.169	7.80	-0.00225
2.3	2.22	169.39	-2.25	2.97	2.220	0.169	7.63	-0.00225
2.31	2.38	166.24	-2.25	2.97	2.380	0.166	6.98	-0.00225
2.32	2.46	163.91	-2.16	2.97	2.460	0.164	6.66	-0.00216
2.33	2.68	153.02	-2.16	2.95	2.680	0.153	5.71	-0.00216
2.34	2.69	153.88	-2.52	2.95	2.690	0.154	5.72	-0.00252
2.35	2.61	153.85	-2.43	2.95	2.610	0.154	5.89	-0.00243
2.36	2.75	152.1	-2.25	3.03	2.750	0.152	5.53	-0.00225
2.37	2.52	154.8	-2.16	3.03	2.520	0.155	6.14	-0.00216
2.38	2.51	153.12	-2.16	3.01	2.510	0.153	6.10	-0.00216
2.39	2.46	153.91	-2.25	3.01	2.460	0.154	6.26	-0.00225
2.4	2.62	145.89	-2.25	3.01	2.620	0.146	5.57	-0.00225
2.41	2.54	145.98	-2.34	3.01	2.540	0.146	5.75	-0.00234
2.42	2.32	145.22	-2.52	3.01	2.320	0.145	6.26	-0.00252
2.43	2.32	140.15	-1.98	2.99	2.320	0.140	6.04	-0.00198
2.44	2.49	139.74	-1.89	2.99	2.490	0.140	5.61	-0.00189
2.45	2.49	138.66	-2.07	2.99	2.490	0.139	5.57	-0.00207
2.46	2.37	140.51	-2.16	2.99	2.370	0.141	5.93	-0.00216
2.47	2.33	142.86	-2.16	2.98	2.330	0.143	6.13	-0.00216
2.48	2.01	146.14	-2.16	2.98	2.010	0.146	7.27	-0.00216
2.49	1.73	144.26	-2.16	2.98	1.730	0.144	8.34	-0.00216
2.5	1.8	136.65	-2.25	2.98	1.800	0.137	7.59	-0.00225
2.51	2.11	127.1	-2.07	2.98	2.110	0.127	6.02	-0.00207
2.52	2.19	121.4	-1.89	2.97	2.190	0.121	5.54	-0.00189
2.53	2.19	116.59	-1.89	2.97	2.190	0.117	5.32	-0.00189
2.54	2.09	112.35	-1.98	2.97	2.090	0.112	5.38	-0.00198
2.55	1.84	112.26	-2.07	2.97	1.840	0.112	6.10	-0.00207
2.56	1.76	109.96	-2.07	2.97	1.760	0.110	6.25	-0.00207
2.57	1.73	110.76	-2.16	2.95	1.730	0.111	6.40	-0.00216
2.58	1.53	111.08	-2.43	2.95	1.530	0.111	7.26	-0.00243
2.59	1.48	113.44	-2.34	2.95	1.480	0.113	7.66	-0.00234
2.6	1.5	114.87	-2.25	2.95	1.500	0.115	7.66	-0.00225
2.61	1.58	111.94	-2.16	2.95	1.580	0.112	7.08	-0.00216
2.62	1.69	99.26	-2.16	2.94	1.690	0.099	5.87	-0.00216
2.63	1.75	94.42	-2.25	2.94	1.750	0.094	5.40	-0.00225
2.64	1.77	92.9	-2.16	2.94	1.770	0.093	5.25	-0.00216
2.65	1.77	87.67	-2.16	2.94	1.770	0.088	4.95	-0.00216
2.66	1.74	87.39	-2.16	2.86	1.740	0.087	5.02	-0.00216
2.67	1.72	81.24	-2.16	2.86	1.720	0.081	4.72	-0.00216
2.68	1.69	74.36	-2.43	2.86	1.690	0.074	4.40	-0.00243
2.69	1.62	72.26	-2.43	2.93	1.620	0.072	4.46	-0.00243
2.7	1.78	64.58	-2.34	2.93	1.780	0.065	3.63	-0.00234
2.71	1.87	60.51	-2.25	2.93	1.870	0.061	3.24	-0.00225
2.72	1.62	66.4	-2.34	2.93	1.620	0.066	4.10	-0.00234
2.73	1.56	66.85	-2.52	2.93	1.560	0.067	4.29	-0.00252
2.74	1.53	68.41	-2.16	2.93	1.530	0.068	4.47	-0.00216
2.75	1.54	65.22	-2.25	2.93	1.540	0.065	4.24	-0.00225
2.76	1.64	62.8	-2.43	2.92	1.640	0.063	3.83	-0.00243
2.77	1.54	67.9	-2.07	2.92	1.540	0.068	4.41	-0.00207
2.78	1.6	72.16	-2.16	2.92	1.600	0.072	4.51	-0.00216
2.79	1.63	75.19	-1.98	2.92	1.630	0.075	4.61	-0.00198
2.8	1.62	75.22	-1.8	2.92	1.620	0.075	4.64	-0.0018
2.81	1.56	76.65	-1.8	2.92	1.560	0.077	4.91	-0.0018
2.82	1.69	74.17	-1.8	2.92	1.690	0.074	4.39	-0.0018
2.83	1.68	70.32	-1.8	2.92	1.680	0.070	4.19	-0.0018
2.84	1.65	70.54	-1.89	2.92	1.650	0.071	4.28	-0.00189
2.85	1.56	72.7	-1.98	2.92	1.560	0.073	4.66	-0.00198

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.86	1.61	70.63	-1.98	2.85	1.610	0.071	4.39	-0.00198
2.87	1.81	70.79	-1.89	2.85	1.810	0.071	3.91	-0.00189
2.88	1.98	69.81	-1.98	2.85	1.980	0.070	3.53	-0.00198
2.89	1.86	73.91	-1.98	2.85	1.860	0.074	3.97	-0.00198
2.9	1.79	74.42	-1.98	2.85	1.790	0.074	4.16	-0.00198
2.91	1.79	74.42	-1.98	2.85	1.790	0.074	4.16	-0.00198
2.92	1.79	74.42	-1.98	2.85	1.790	0.074	4.16	-0.00198
2.93	1.7	58.06	-1.71	2.77	1.700	0.058	3.42	-0.00171
2.94	1.81	58.41	-1.71	2.77	1.810	0.058	3.23	-0.00171
2.95	1.76	64.97	-1.8	2.77	1.760	0.065	3.69	-0.0018
2.96	1.77	71.02	-1.71	2.77	1.770	0.071	4.01	-0.00171
2.97	1.74	76.11	-1.89	2.77	1.740	0.076	4.37	-0.00189
2.98	1.76	78.76	-1.8	2.77	1.760	0.079	4.48	-0.0018
2.99	1.83	80.22	-1.89	2.77	1.830	0.080	4.38	-0.00189
3	1.75	81.72	-1.89	2.77	1.750	0.082	4.67	-0.00189
3.01	1.51	90.41	-2.16	2.77	1.510	0.090	5.99	-0.00216
3.02	1.2	96.56	-2.52	2.77	1.200	0.097	8.05	-0.00252
3.03	1.22	98.91	-2.25	2.77	1.220	0.099	8.11	-0.00225
3.04	1.39	95.22	-2.25	2.77	1.390	0.095	6.85	-0.00225
3.05	1.32	91.81	-2.07	2.77	1.320	0.092	6.96	-0.00207
3.06	1.5	88.76	-1.8	2.77	1.500	0.089	5.92	-0.0018
3.07	1.2	92.45	-1.71	2.77	1.200	0.092	7.70	-0.00171
3.08	1.2	90.25	-1.8	2.77	1.200	0.090	7.52	-0.0018
3.09	1.28	89.68	-1.8	2.77	1.280	0.090	7.01	-0.0018
3.1	1.18	86.69	-1.98	2.77	1.180	0.087	7.35	-0.00198
3.11	1.07	85.51	-1.98	2.77	1.070	0.086	7.99	-0.00198
3.12	0.81	86.94	-2.34	2.77	0.810	0.087	10.73	-0.00234
3.13	0.65	87.7	-2.43	2.77	0.650	0.088	13.49	-0.00243
3.14	0.63	89.11	-2.16	2.77	0.630	0.089	14.14	-0.00216
3.15	0.79	85.83	-1.8	2.77	0.790	0.086	10.86	-0.0018
3.16	0.89	82.64	-1.71	2.77	0.890	0.083	9.29	-0.00171
3.17	0.99	81.91	-1.71	2.77	0.990	0.082	8.27	-0.00171
3.18	1	83.66	-2.07	2.85	1.000	0.084	8.37	-0.00207
3.19	1.14	81.56	-2.07	2.85	1.140	0.082	7.15	-0.00207
3.2	1.21	78.18	-1.71	2.85	1.210	0.078	6.46	-0.00171
3.21	1.4	77.23	-1.62	2.85	1.400	0.077	5.52	-0.00162
3.22	1.45	73.41	-1.62	2.85	1.450	0.073	5.06	-0.00162
3.23	1.38	74.3	-1.62	2.85	1.380	0.074	5.38	-0.00162
3.24	1.77	61.46	-2.16	2.85	1.770	0.061	3.47	-0.00216
3.25	1.66	58.57	-1.62	2.85	1.660	0.059	3.53	-0.00162
3.26	1.78	59.27	-1.62	2.93	1.780	0.059	3.33	-0.00162
3.27	1.73	58.69	-1.53	2.93	1.730	0.059	3.39	-0.00153
3.28	1.81	58.79	-1.44	2.93	1.810	0.059	3.25	-0.00144
3.29	1.81	59.97	-1.53	2.93	1.810	0.060	3.31	-0.00153
3.3	1.63	62.99	-1.8	2.93	1.630	0.063	3.86	-0.0018
3.31	1.73	63.28	-1.35	3	1.730	0.063	3.66	-0.00135
3.32	1.82	61.14	-1.53	3.01	1.820	0.061	3.36	-0.00153
3.33	1.85	62.71	-1.35	3.01	1.850	0.063	3.39	-0.00135
3.34	1.76	67.55	-1.26	3.01	1.760	0.068	3.84	-0.00126
3.35	1.88	70.35	-1.08	3.01	1.880	0.070	3.74	-0.00108
3.36	1.76	78.41	1.8	3.01	1.760	0.078	4.46	0.0018
3.37	1.89	80.03	-2.43	3.01	1.890	0.080	4.23	-0.00243
3.38	1.94	85.03	-0.36	3.01	1.940	0.085	4.38	-0.00036
3.39	1.94	87.74	4.96	3.01	1.940	0.088	4.52	0.00496
3.4	1.97	90.32	11.35	3.01	1.970	0.090	4.58	0.01135
3.41	1.99	92.7	10.63	3.01	1.990	0.093	4.66	0.01063
3.42	2	95.63	9.91	3.09	2.000	0.096	4.78	0.00991

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
3.43	1.95	97.8	10.18	3.09	1.950	0.098	5.02	0.01018
3.44	1.9	98.85	6.49	3.09	1.900	0.099	5.20	0.00649
3.45	1.92	99.74	10.45	3.1	1.920	0.100	5.19	0.01045
3.46	1.93	102.16	12.25	3.1	1.930	0.102	5.29	0.01225
3.47	1.91	105.16	16.4	3.1	1.910	0.105	5.51	0.0164
3.48	1.85	105.95	15.59	3.1	1.850	0.106	5.73	0.01559
3.49	1.82	107.26	12.52	3.1	1.820	0.107	5.89	0.01252
3.5	1.8	109.07	12.8	3.1	1.800	0.109	6.06	0.0128
3.51	1.74	110.06	10.99	3.11	1.740	0.110	6.33	0.01099
3.52	1.71	110.76	11.17	3.11	1.710	0.111	6.48	0.01117
3.53	1.62	110.16	12.61	3.11	1.620	0.110	6.80	0.01261
3.54	1.63	109.39	15.95	3.11	1.630	0.109	6.71	0.01595
3.55	1.66	108.31	22.17	3.11	1.660	0.108	6.52	0.02217
3.56	1.65	105.16	25.59	3.11	1.650	0.105	6.37	0.02559
3.57	1.66	101.97	24.6	3.11	1.660	0.102	6.14	0.0246
3.58	1.68	100.19	26.13	3.12	1.680	0.100	5.96	0.02613
3.59	1.7	98.34	25.5	3.12	1.700	0.098	5.78	0.0255
3.6	1.7	97.77	26.76	3.12	1.700	0.098	5.75	0.02676
3.61	1.73	96.91	26.94	3.12	1.730	0.097	5.60	0.02694
3.62	1.75	95.76	27.93	3.12	1.750	0.096	5.47	0.02793
3.63	1.72	94.2	29.64	3.13	1.720	0.094	5.48	0.02964
3.64	1.71	92.35	30.28	3.13	1.710	0.092	5.40	0.03028
3.65	1.71	91.43	31.27	3.13	1.710	0.091	5.35	0.03127
3.66	1.71	92.07	33.07	3.13	1.710	0.092	5.38	0.03307
3.67	1.71	92.96	34.24	3.13	1.710	0.093	5.44	0.03424
3.68	1.68	94.49	35.86	3.05	1.680	0.094	5.62	0.03586
3.69	1.67	94.55	36.13	3.05	1.670	0.095	5.66	0.03613
3.7	1.67	95.06	37.21	3.05	1.670	0.095	5.69	0.03721
3.71	1.66	95.57	39.65	3.05	1.660	0.096	5.76	0.03965
3.72	1.66	95.73	41.63	3.05	1.660	0.096	5.77	0.04163
3.73	1.66	94.93	42.53	3.07	1.660	0.095	5.72	0.04253
3.74	1.65	93.69	42.8	3.07	1.650	0.094	5.68	0.0428
3.75	1.63	92.83	44.69	3.14	1.630	0.093	5.70	0.04469
3.76	1.63	92.74	46.13	3.14	1.630	0.093	5.69	0.04613
3.77	1.62	92.7	47.22	3.07	1.620	0.093	5.72	0.04722
3.78	1.58	91.81	47.22	3.07	1.580	0.092	5.81	0.04722
3.79	1.54	89.97	47.31	3.14	1.540	0.090	5.84	0.04731
3.8	1.51	89.01	47.94	3.14	1.510	0.089	5.89	0.04794
3.81	1.5	87.29	47.76	3.14	1.500	0.087	5.82	0.04776
3.82	1.49	84.87	48.57	3.14	1.490	0.085	5.70	0.04857
3.83	1.5	83.69	48.84	3.14	1.500	0.084	5.58	0.04884
3.84	1.53	81.94	50.28	3.14	1.530	0.082	5.36	0.05028
3.85	1.55	80.73	50.91	3.14	1.550	0.081	5.21	0.05091
3.86	1.56	79.46	51.81	3.14	1.560	0.079	5.09	0.05181
3.87	1.51	79.26	56.14	3.14	1.510	0.079	5.25	0.05614
3.88	1.47	79.01	60.46	3.14	1.470	0.079	5.37	0.06046
3.89	1.48	78.76	62.08	3.14	1.480	0.079	5.32	0.06208
3.9	1.55	77.1	62.26	3.22	1.550	0.077	4.97	0.06226
3.91	1.55	77.1	62.26	3.22	1.550	0.077	4.97	0.06226
3.92	1.55	77.1	62.26	3.22	1.550	0.077	4.97	0.06226
3.93	1.78	77.55	65.06	3.14	1.780	0.078	4.36	0.06506
3.94	1.73	77.45	65.96	3.22	1.730	0.077	4.48	0.06596
3.95	1.7	76.81	65.87	3.22	1.700	0.077	4.52	0.06587
3.96	1.7	75.51	65.78	3.22	1.700	0.076	4.44	0.06578
3.97	1.73	73.88	65.6	3.23	1.730	0.074	4.27	0.0656
3.98	1.75	73.28	65.51	3.23	1.750	0.073	4.19	0.06551
3.99	1.76	73.72	65.33	3.23	1.760	0.074	4.19	0.06533

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4	1.76	75.57	65.15	3.23	1.760	0.076	4.29	0.06515
4.01	1.77	78.34	65.06	3.23	1.770	0.078	4.43	0.06506
4.02	1.77	81.75	64.88	3.23	1.770	0.082	4.62	0.06488
4.03	1.79	87.58	64.61	3.31	1.790	0.088	4.89	0.06461
4.04	1.82	89.61	64.79	3.23	1.820	0.090	4.92	0.06479
4.05	1.84	91.24	64.88	3.25	1.840	0.091	4.96	0.06488
4.06	1.85	93.37	64.88	3.32	1.850	0.093	5.05	0.06488
4.07	1.86	95.16	64.79	3.32	1.860	0.095	5.12	0.06479
4.08	1.87	96.68	65.6	3.32	1.870	0.097	5.17	0.0656
4.09	1.89	98.47	65.6	3.32	1.890	0.098	5.21	0.0656
4.1	1.89	100	65.69	3.32	1.890	0.100	5.29	0.06569
4.11	1.89	101.97	65.96	3.32	1.890	0.102	5.40	0.06596
4.12	1.89	104.04	66.05	3.32	1.890	0.104	5.50	0.06605
4.13	1.88	108.02	65.42	3.32	1.880	0.108	5.75	0.06542
4.14	1.85	109.58	65.15	3.32	1.850	0.110	5.92	0.06515
4.15	1.82	110.03	65.06	3.32	1.820	0.110	6.05	0.06506
4.16	1.78	110.73	64.88	3.34	1.780	0.111	6.22	0.06488
4.17	1.73	111.62	64.7	3.34	1.730	0.112	6.45	0.0647
4.18	1.7	111.14	64.52	3.34	1.700	0.111	6.54	0.06452
4.19	1.68	110.89	64.43	3.34	1.680	0.111	6.60	0.06443
4.2	1.64	111.97	65.06	3.34	1.640	0.112	6.83	0.06506
4.21	1.62	113.15	66.32	3.34	1.620	0.113	6.98	0.06632
4.22	1.57	115.73	67.49	3.34	1.570	0.116	7.37	0.06749
4.23	1.53	115.73	67.49	3.34	1.530	0.116	7.56	0.06749
4.24	1.49	114.96	67.67	3.34	1.490	0.115	7.72	0.06767
4.25	1.47	114.1	67.67	3.34	1.470	0.114	7.76	0.06767
4.26	1.44	112.67	67.58	3.34	1.440	0.113	7.82	0.06758
4.27	1.41	110.86	67.4	3.34	1.410	0.111	7.86	0.0674
4.28	1.39	109.1	67.31	3.34	1.390	0.109	7.85	0.06731
4.29	1.38	107.19	67.13	3.34	1.380	0.107	7.77	0.06713
4.3	1.36	104.68	67.67	3.34	1.360	0.105	7.70	0.06767
4.31	1.32	101.75	67.94	3.42	1.320	0.102	7.71	0.06794
4.32	1.27	99.81	67.67	3.34	1.270	0.100	7.86	0.06767
4.33	1.24	97.51	67.49	3.34	1.240	0.098	7.86	0.06749
4.34	1.21	94.55	67.4	3.44	1.210	0.095	7.81	0.0674
4.35	1.18	92.61	67.22	3.44	1.180	0.093	7.85	0.06722
4.36	1.13	91.75	67.04	3.36	1.130	0.092	8.12	0.06704
4.37	1.08	90.89	66.86	3.44	1.080	0.091	8.42	0.06686
4.38	1.02	89.07	66.5	3.44	1.020	0.089	8.73	0.0665
4.39	0.98	88.44	66.41	3.44	0.980	0.088	9.02	0.06641
4.4	0.95	87.83	66.23	3.44	0.950	0.088	9.25	0.06623
4.41	0.91	86.72	66.14	3.44	0.910	0.087	9.53	0.06614
4.42	0.89	84.93	66.05	3.44	0.890	0.085	9.54	0.06605
4.43	0.88	82.58	66.23	3.44	0.880	0.083	9.38	0.06623
4.44	0.87	80.98	67.22	3.44	0.870	0.081	9.31	0.06722
4.45	0.87	79.77	67.76	3.44	0.870	0.080	9.17	0.06776
4.46	0.87	79.77	68.3	3.44	0.870	0.080	9.17	0.0683
4.47	0.88	79.14	68.48	3.44	0.880	0.079	8.99	0.06848
4.48	0.9	77.86	68.48	3.44	0.900	0.078	8.65	0.06848
4.49	0.91	75.83	68.39	3.44	0.910	0.076	8.33	0.06839
4.5	0.92	74.52	68.39	3.44	0.920	0.075	8.10	0.06839
4.51	0.93	72.96	68.3	3.44	0.930	0.073	7.85	0.0683
4.52	0.93	70.86	68.3	3.44	0.930	0.071	7.62	0.0683
4.53	0.9	67.07	68.03	3.45	0.900	0.067	7.45	0.06803
4.54	0.89	65.48	67.85	3.45	0.890	0.065	7.36	0.06785
4.55	0.87	64.07	67.04	3.45	0.870	0.064	7.36	0.06704
4.56	0.85	62.93	66.77	3.45	0.850	0.063	7.40	0.06677

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4.57	0.83	61.94	66.68	3.45	0.830	0.062	7.46	0.06668
4.58	0.82	61.11	66.59	3.45	0.820	0.061	7.45	0.06659
4.59	0.8	60.25	66.41	3.45	0.800	0.060	7.53	0.06641
4.6	0.79	59.39	66.32	3.45	0.790	0.059	7.52	0.06632
4.61	0.77	58.79	66.23	3.45	0.770	0.059	7.64	0.06623
4.62	0.76	58.09	66.14	3.45	0.760	0.058	7.64	0.06614
4.63	0.75	57.55	66.05	3.45	0.750	0.058	7.67	0.06605
4.64	0.74	56.94	65.87	3.45	0.740	0.057	7.69	0.06587
4.65	0.72	56.21	65.78	3.45	0.720	0.056	7.81	0.06578
4.66	0.7	56.24	65.69	3.45	0.700	0.056	8.03	0.06569
4.67	0.68	55.22	65.6	3.45	0.680	0.055	8.12	0.0656
4.68	0.66	54.01	65.51	3.45	0.660	0.054	8.18	0.06551
4.69	0.65	53.21	65.33	3.48	0.650	0.053	8.19	0.06533
4.7	0.62	52.51	65.15	3.48	0.620	0.053	8.47	0.06515
4.71	0.61	51.5	65.06	3.48	0.610	0.052	8.44	0.06506
4.72	0.59	50.13	64.97	3.48	0.590	0.050	8.50	0.06497
4.73	0.59	48.6	64.88	3.48	0.590	0.049	8.24	0.06488
4.74	0.59	47.55	64.79	3.48	0.590	0.048	8.06	0.06479
4.75	0.58	46.75	64.7	3.48	0.580	0.047	8.06	0.0647
4.76	0.56	46.11	64.61	3.48	0.560	0.046	8.23	0.06461
4.77	0.56	44.87	64.52	3.48	0.560	0.045	8.01	0.06452
4.78	0.55	43.5	64.52	3.48	0.550	0.044	7.91	0.06452
4.79	0.55	41.85	64.52	3.4	0.550	0.042	7.61	0.06452
4.8	0.55	40.03	64.43	3.48	0.550	0.040	7.28	0.06443
4.81	0.57	38.69	64.43	3.4	0.570	0.039	6.79	0.06443
4.82	0.58	37.39	64.43	3.48	0.580	0.037	6.45	0.06443
4.83	0.59	36.24	64.43	3.4	0.590	0.036	6.14	0.06443
4.84	0.62	34.62	64.61	3.4	0.620	0.035	5.58	0.06461
4.85	0.65	33.85	66.41	3.4	0.650	0.034	5.21	0.06641
4.86	0.67	33.28	69.2	3.4	0.670	0.033	4.97	0.0692
4.87	0.69	32.9	69.47	3.43	0.690	0.033	4.77	0.06947
4.88	0.7	32.83	69.38	3.4	0.700	0.033	4.69	0.06938
4.89	0.69	32.87	69.2	3.43	0.690	0.033	4.76	0.0692
4.9	0.67	32.96	69.11	3.43	0.670	0.033	4.92	0.06911
4.91	0.67	32.96	69.11	3.43	0.670	0.033	4.92	0.06911
4.92	0.67	32.96	69.11	3.43	0.670	0.033	4.92	0.06911
4.93	0.65	34.14	62.89	3.4	0.650	0.034	5.25	0.06289
4.94	0.62	35.25	62.71	3.4	0.620	0.035	5.69	0.06271
4.95	0.61	35.67	62.62	3.4	0.610	0.036	5.85	0.06262
4.96	0.6	36.05	62.44	3.4	0.600	0.036	6.01	0.06244
4.97	0.59	36.24	62.44	3.4	0.590	0.036	6.14	0.06244
4.98	0.59	36.27	62.26	3.4	0.590	0.036	6.15	0.06226
4.99	0.57	36.46	62.17	3.43	0.570	0.036	6.40	0.06217
5	0.56	36.65	62.08	3.43	0.560	0.037	6.54	0.06208
5.01	0.55	36.34	61.99	3.43	0.550	0.036	6.61	0.06199
5.02	0.54	36.11	61.99	3.35	0.540	0.036	6.69	0.06199
5.03	0.55	35.54	62.08	3.43	0.550	0.036	6.46	0.06208
5.04	0.55	34.9	61.99	3.43	0.550	0.035	6.35	0.06199
5.05	0.55	33.92	61.99	3.35	0.550	0.034	6.17	0.06199
5.06	0.56	33.06	61.99	3.35	0.560	0.033	5.90	0.06199
5.07	0.57	32.23	62.08	3.35	0.570	0.032	5.65	0.06208
5.08	0.57	31.43	62.08	3.35	0.570	0.031	5.51	0.06208
5.09	0.58	30.7	61.99	3.43	0.580	0.031	5.29	0.06199
5.1	0.59	30.13	62.08	3.43	0.590	0.030	5.11	0.06208
5.11	0.59	29.97	62.08	3.35	0.590	0.030	5.08	0.06208
5.12	0.58	30.13	62.17	3.35	0.580	0.030	5.19	0.06217
5.13	0.58	30.09	62.17	3.35	0.580	0.030	5.19	0.06217

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.14	0.58	30.35	62.17	3.35	0.580	0.030	5.23	0.06217
5.15	0.57	30.54	62.17	3.35	0.570	0.031	5.36	0.06217
5.16	0.56	30.57	62.08	3.35	0.560	0.031	5.46	0.06208
5.17	0.55	30.76	61.99	3.35	0.550	0.031	5.59	0.06199
5.18	0.55	30.73	61.9	3.35	0.550	0.031	5.59	0.0619
5.19	0.56	30.76	61.9	3.35	0.560	0.031	5.49	0.0619
5.2	0.57	30.8	61.81	3.35	0.570	0.031	5.40	0.06181
5.21	0.57	31.05	61.72	3.38	0.570	0.031	5.45	0.06172
5.22	0.57	31.3	61.72	3.38	0.570	0.031	5.49	0.06172
5.23	0.57	31.62	61.63	3.38	0.570	0.032	5.55	0.06163
5.24	0.56	31.91	61.54	3.38	0.560	0.032	5.70	0.06154
5.25	0.56	31.72	61.54	3.38	0.560	0.032	5.66	0.06154
5.26	0.56	31.4	61.45	3.38	0.560	0.031	5.61	0.06145
5.27	0.55	31.18	61.36	3.38	0.550	0.031	5.67	0.06136
5.28	0.54	30.83	61.27	3.38	0.540	0.031	5.71	0.06127
5.29	0.54	30.22	61.18	3.38	0.540	0.030	5.60	0.06118
5.3	0.54	29.49	61.18	3.38	0.540	0.029	5.46	0.06118
5.31	0.55	28.66	61.09	3.38	0.550	0.029	5.21	0.06109
5.32	0.55	28.22	61	3.38	0.550	0.028	5.13	0.061
5.33	0.56	27.99	61	3.38	0.560	0.028	5.00	0.061
5.34	0.57	27.93	61	3.4	0.570	0.028	4.90	0.061
5.35	0.58	28.28	61.09	3.4	0.580	0.028	4.88	0.06109
5.36	0.6	28.47	61.18	3.4	0.600	0.028	4.75	0.06118
5.37	0.6	28.63	61.45	3.4	0.600	0.029	4.77	0.06145
5.38	0.58	28.88	62.35	3.4	0.580	0.029	4.98	0.06235
5.39	0.58	29.04	62.44	3.4	0.580	0.029	5.01	0.06244
5.4	0.61	28.69	62.44	3.4	0.610	0.029	4.70	0.06244
5.41	0.61	28.95	62.44	3.4	0.610	0.029	4.75	0.06244
5.42	0.6	29.65	62.44	3.4	0.600	0.030	4.94	0.06244
5.43	0.59	30.48	62.35	3.4	0.590	0.030	5.17	0.06235
5.44	0.59	31.08	62.26	3.4	0.590	0.031	5.27	0.06226
5.45	0.59	31.53	62.53	3.4	0.590	0.032	5.34	0.06253
5.46	0.59	31.88	63.25	3.4	0.590	0.032	5.40	0.06325
5.47	0.59	31.97	63.34	3.4	0.590	0.032	5.42	0.06334
5.48	0.59	31.91	63.34	3.4	0.590	0.032	5.41	0.06334
5.49	0.59	31.88	63.52	3.4	0.590	0.032	5.40	0.06352
5.5	0.59	32.07	63.89	3.43	0.590	0.032	5.44	0.06389
5.51	0.6	32.61	63.98	3.4	0.600	0.033	5.44	0.06398
5.52	0.58	33.25	63.98	3.43	0.580	0.033	5.73	0.06398
5.53	0.57	33.95	63.89	3.43	0.570	0.034	5.96	0.06389
5.54	0.55	34.62	63.8	3.43	0.550	0.035	6.29	0.0638
5.55	0.54	35.03	63.71	3.43	0.540	0.035	6.49	0.06371
5.56	0.52	34.78	63.62	3.43	0.520	0.035	6.69	0.06362
5.57	0.49	34.9	63.43	3.43	0.490	0.035	7.12	0.06343
5.58	0.46	35.16	63.25	3.53	0.460	0.035	7.64	0.06325
5.59	0.44	35	63.07	3.43	0.440	0.035	7.95	0.06307
5.6	0.43	34.55	62.98	3.43	0.430	0.035	8.03	0.06298
5.61	0.42	33.98	62.89	3.53	0.420	0.034	8.09	0.06289
5.62	0.41	33.28	62.89	3.53	0.410	0.033	8.12	0.06289
5.63	0.4	33.02	62.8	3.53	0.400	0.033	8.26	0.0628
5.64	0.39	32.58	62.8	3.53	0.390	0.033	8.35	0.0628
5.65	0.39	31.56	62.71	3.53	0.390	0.032	8.09	0.06271
5.66	0.39	30.13	62.62	3.53	0.390	0.030	7.73	0.06262
5.67	0.39	28.63	62.71	3.53	0.390	0.029	7.34	0.06271
5.68	0.4	27.13	62.71	3.53	0.400	0.027	6.78	0.06271
5.69	0.42	25.48	62.89	3.53	0.420	0.025	6.07	0.06289
5.7	0.44	23.85	62.89	3.53	0.440	0.024	5.42	0.06289

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.71	0.49	20.92	63.16	3.53	0.490	0.021	4.27	0.06316
5.72	0.52	19.74	63.25	3.53	0.520	0.020	3.80	0.06325
5.73	0.55	18.69	63.25	3.53	0.550	0.019	3.40	0.06325
5.74	0.57	18.06	63.43	3.53	0.570	0.018	3.17	0.06343
5.75	0.58	17.55	63.52	3.56	0.580	0.018	3.03	0.06352
5.76	0.59	17.32	63.71	3.56	0.590	0.017	2.94	0.06371
5.77	0.61	17.55	63.89	3.56	0.610	0.018	2.88	0.06389
5.78	0.61	18.06	64.16	3.56	0.610	0.018	2.96	0.06416
5.79	0.61	18.66	64.79	3.56	0.610	0.019	3.06	0.06479
5.8	0.61	19.11	65.06	3.56	0.610	0.019	3.13	0.06506
5.81	0.61	19.52	65.51	3.56	0.610	0.020	3.20	0.06551
5.82	0.59	20	67.49	3.56	0.590	0.020	3.39	0.06749
5.83	0.6	20.35	70.46	3.56	0.600	0.020	3.39	0.07046
5.84	0.6	21.02	72.45	3.56	0.600	0.021	3.50	0.07245
5.85	0.61	21.72	72.9	3.49	0.610	0.022	3.56	0.0729
5.86	0.61	22.36	73.26	3.56	0.610	0.022	3.67	0.07326
5.87	0.62	23.22	73.62	3.56	0.620	0.023	3.75	0.07362
5.88	0.63	24.39	73.8	3.56	0.630	0.024	3.87	0.0738
5.89	0.65	25.38	74.52	3.49	0.650	0.025	3.90	0.07452
5.9	0.66	26.53	75.33	3.49	0.660	0.027	4.02	0.07533
5.91	0.66	26.53	75.33	3.49	0.660	0.027	4.02	0.07533
5.92	0.66	26.53	75.33	3.49	0.660	0.027	4.02	0.07533
5.93	0.69	31.4	117.05	3.52	0.690	0.031	4.55	0.11705
5.94	0.7	32.13	118.49	3.52	0.700	0.032	4.59	0.11849
5.95	0.72	32.64	121.01	3.52	0.720	0.033	4.53	0.12101
5.96	0.73	33.09	122.45	3.52	0.730	0.033	4.53	0.12245
5.97	0.74	33.5	123.45	3.52	0.740	0.034	4.53	0.12345
5.98	0.74	34.01	123.72	3.52	0.740	0.034	4.60	0.12372
5.99	0.74	34.17	124.44	3.52	0.740	0.034	4.62	0.12444
6	0.75	34.71	124.8	3.52	0.750	0.035	4.63	0.1248
6.01	0.75	35.19	124.71	3.52	0.750	0.035	4.69	0.12471
6.02	0.76	35.6	124.89	3.52	0.760	0.036	4.68	0.12489
6.03	0.75	36.34	125.16	3.52	0.750	0.036	4.85	0.12516
6.04	0.75	37.26	125.97	3.52	0.750	0.037	4.97	0.12597
6.05	0.75	38.22	126.42	3.52	0.750	0.038	5.10	0.12642
6.06	0.75	39.08	126.51	3.52	0.750	0.039	5.21	0.12651
6.07	0.76	39.52	127.14	3.52	0.760	0.040	5.20	0.12714
6.08	0.76	40.13	127.23	3.52	0.760	0.040	5.28	0.12723
6.09	0.77	40.44	127.23	3.52	0.770	0.040	5.25	0.12723
6.1	0.77	40.57	127.32	3.52	0.770	0.041	5.27	0.12732
6.11	0.78	40.64	127.5	3.55	0.780	0.041	5.21	0.1275
6.12	0.78	40.64	127.5	3.55	0.780	0.041	5.21	0.1275
6.13	0.79	40.57	127.5	3.55	0.790	0.041	5.14	0.1275
6.14	0.78	40.51	127.14	3.55	0.780	0.041	5.19	0.12714
6.15	0.78	40.32	127.14	3.55	0.780	0.040	5.17	0.12714
6.16	0.77	39.97	127.95	3.55	0.770	0.040	5.19	0.12795
6.17	0.77	39.87	128.4	3.55	0.770	0.040	5.18	0.1284
6.18	0.78	39.49	129.03	3.55	0.780	0.039	5.06	0.12903
6.19	0.78	39.23	129.39	3.55	0.780	0.039	5.03	0.12939
6.2	0.78	39.17	130.02	3.55	0.780	0.039	5.02	0.13002
6.21	0.77	39.17	131.92	3.55	0.770	0.039	5.09	0.13192
6.22	0.76	39.58	133.72	3.55	0.760	0.040	5.21	0.13372
6.23	0.75	39.84	135.7	3.55	0.750	0.040	5.31	0.1357
6.24	0.75	39.3	136.33	3.55	0.750	0.039	5.24	0.13633
6.25	0.75	38.6	136.42	3.55	0.750	0.039	5.15	0.13642
6.26	0.75	37.67	136.6	3.55	0.750	0.038	5.02	0.1366
6.27	0.75	36.75	137.14	3.59	0.750	0.037	4.90	0.13714

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.28	0.75	35.89	137.5	3.59	0.750	0.036	4.79	0.1375
6.29	0.74	35.51	138.67	3.59	0.740	0.036	4.80	0.13867
6.3	0.74	35.32	140.12	3.59	0.740	0.035	4.77	0.14012
6.31	0.74	35	141.02	3.59	0.740	0.035	4.73	0.14102
6.32	0.74	34.36	141.38	3.59	0.740	0.034	4.64	0.14138
6.33	0.74	33.6	141.38	3.52	0.740	0.034	4.54	0.14138
6.34	0.74	32.45	141.47	3.52	0.740	0.032	4.39	0.14147
6.35	0.74	31.43	141.65	3.52	0.740	0.031	4.25	0.14165
6.36	0.74	30.83	142.01	3.59	0.740	0.031	4.17	0.14201
6.37	0.75	30.44	142.55	3.52	0.750	0.030	4.06	0.14255
6.38	0.75	30.06	142.73	3.52	0.750	0.030	4.01	0.14273
6.39	0.75	29.78	142.82	3.56	0.750	0.030	3.97	0.14282
6.4	0.76	29.59	143.09	3.62	0.760	0.030	3.89	0.14309
6.41	0.76	29.33	143.54	3.56	0.760	0.029	3.86	0.14354
6.42	0.76	29.23	143.81	3.56	0.760	0.029	3.85	0.14381
6.43	0.77	29.17	144.26	3.56	0.770	0.029	3.79	0.14426
6.44	0.79	29.04	144.53	3.62	0.790	0.029	3.68	0.14453
6.45	0.82	29.36	145.43	3.56	0.820	0.029	3.58	0.14543
6.46	0.83	30.19	145.88	3.62	0.830	0.030	3.64	0.14588
6.47	0.85	31.21	146.24	3.56	0.850	0.031	3.67	0.14624
6.48	0.86	32.23	146.78	3.56	0.860	0.032	3.75	0.14678
6.49	0.85	33.5	147.32	3.56	0.850	0.034	3.94	0.14732
6.5	0.84	34.2	147.77	3.56	0.840	0.034	4.07	0.14777
6.51	0.83	34.87	147.59	3.62	0.830	0.035	4.20	0.14759
6.52	0.81	35.86	147.32	3.59	0.810	0.036	4.43	0.14732
6.53	0.8	36.56	147.14	3.59	0.800	0.037	4.57	0.14714
6.54	0.79	36.94	146.96	3.59	0.790	0.037	4.68	0.14696
6.55	0.78	37.48	146.78	3.59	0.780	0.037	4.81	0.14678
6.56	0.76	37.9	146.51	3.59	0.760	0.038	4.99	0.14651
6.57	0.75	37.99	146.33	3.66	0.750	0.038	5.07	0.14633
6.58	0.73	38.41	146.15	3.66	0.730	0.038	5.26	0.14615
6.59	0.71	38.25	146.06	3.66	0.710	0.038	5.39	0.14606
6.6	0.7	37.77	145.88	3.66	0.700	0.038	5.40	0.14588
6.61	0.7	37.13	145.79	3.66	0.700	0.037	5.30	0.14579
6.62	0.7	36.43	145.88	3.66	0.700	0.036	5.20	0.14588
6.63	0.7	35.99	145.97	3.66	0.700	0.036	5.14	0.14597
6.64	0.69	35.73	146.06	3.66	0.690	0.036	5.18	0.14606
6.65	0.69	35.22	146.33	3.66	0.690	0.035	5.10	0.14633
6.66	0.68	34.46	146.42	3.66	0.680	0.034	5.07	0.14642
6.67	0.68	33.47	146.69	3.69	0.680	0.033	4.92	0.14669
6.68	0.66	31.88	147.32	3.69	0.660	0.032	4.83	0.14732
6.69	0.65	31.24	147.86	3.69	0.650	0.031	4.81	0.14786
6.7	0.63	30.67	148.59	3.69	0.630	0.031	4.87	0.14859
6.71	0.62	30.03	148.77	3.69	0.620	0.030	4.84	0.14877
6.72	0.61	29.01	148.77	3.69	0.610	0.029	4.76	0.14877
6.73	0.61	27.9	148.95	3.69	0.610	0.028	4.57	0.14895
6.74	0.61	27.9	148.95	3.69	0.610	0.028	4.57	0.14895
6.75	0.61	26.91	149.13	3.69	0.610	0.027	4.41	0.14913
6.76	0.6	26.24	149.76	3.63	0.600	0.026	4.37	0.14976
6.77	0.58	25.25	150.57	3.69	0.580	0.025	4.35	0.15057
6.78	0.58	24.49	151.2	3.69	0.580	0.024	4.22	0.1512
6.79	0.58	23.85	151.92	3.63	0.580	0.024	4.11	0.15192
6.8	0.58	23.22	153.36	3.69	0.580	0.023	4.00	0.15336
6.81	0.58	22.45	155.25	3.63	0.580	0.022	3.87	0.15525
6.82	0.59	21.72	158.14	3.67	0.590	0.022	3.68	0.15814
6.83	0.59	20.92	163.09	3.73	0.590	0.021	3.55	0.16309
6.84	0.6	20.22	170.12	3.73	0.600	0.020	3.37	0.17012

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.85	0.61	19.71	175.62	3.73	0.610	0.020	3.23	0.17562
6.86	0.61	19.46	182.01	3.67	0.610	0.019	3.19	0.18201
6.87	0.62	19.14	189.49	3.67	0.620	0.019	3.09	0.18949
6.88	0.64	18.88	197.15	3.73	0.640	0.019	2.95	0.19715
6.89	0.66	18.47	200.85	3.73	0.660	0.018	2.80	0.20085
6.9	0.66	18.47	200.85	3.73	0.660	0.018	2.80	0.20085
6.91	0.66	18.47	200.85	3.73	0.660	0.018	2.80	0.20085
6.92	0.77	16.27	260.41	3.77	0.770	0.016	2.11	0.26041
6.93	0.78	17.07	263.83	3.77	0.780	0.017	2.19	0.26383
6.94	0.8	17.8	266.53	3.77	0.800	0.018	2.23	0.26653
6.95	0.82	18.38	268.25	3.77	0.820	0.018	2.24	0.26825
6.96	0.84	19.11	271.76	3.77	0.840	0.019	2.28	0.27176
6.97	0.85	19.94	273.38	3.77	0.850	0.020	2.35	0.27338
6.98	0.86	20.83	274.91	3.77	0.860	0.021	2.42	0.27491
6.99	0.87	21.75	275.09	3.77	0.870	0.022	2.50	0.27509
7	0.88	22.83	275.82	3.77	0.880	0.023	2.59	0.27582
7.01	0.88	24.11	277.89	3.77	0.880	0.024	2.74	0.27789
7.02	0.89	25.35	278.7	3.81	0.890	0.025	2.85	0.2787
7.03	0.91	26.46	279.15	3.81	0.910	0.026	2.91	0.27915
7.04	0.92	27.39	279.96	3.81	0.920	0.027	2.98	0.27996
7.05	0.94	28.6	280.95	3.81	0.940	0.029	3.04	0.28095
7.06	0.92	29.71	280.77	3.81	0.920	0.030	3.23	0.28077
7.07	0.92	30.73	281.22	3.81	0.920	0.031	3.34	0.28122
7.08	0.93	31.62	279.51	3.81	0.930	0.032	3.40	0.27951
7.09	0.94	32.8	279.15	3.81	0.940	0.033	3.49	0.27915
7.1	0.94	34.14	279.24	3.81	0.940	0.034	3.63	0.27924
7.11	0.96	35.48	278.7	3.81	0.960	0.035	3.70	0.2787
7.12	0.98	36.81	277.44	3.81	0.980	0.037	3.76	0.27744
7.13	0.93	37.99	259.33	3.85	0.930	0.038	4.08	0.25933
7.14	0.92	39.52	260.41	3.85	0.920	0.040	4.30	0.26041
7.15	0.93	40.22	261.04	3.85	0.930	0.040	4.32	0.26104
7.16	0.93	40.79	261.04	3.85	0.930	0.041	4.39	0.26104
7.17	0.94	41.78	260.59	3.85	0.940	0.042	4.44	0.26059
7.18	0.96	42.55	261.67	3.85	0.960	0.043	4.43	0.26167
7.19	0.98	43.47	261.76	3.85	0.980	0.043	4.44	0.26176
7.2	1	44.23	262.03	3.85	1.000	0.044	4.42	0.26203
7.21	1.02	47	264.55	3.85	1.020	0.047	4.61	0.26455
7.22	1.03	49.04	267.08	3.89	1.030	0.049	4.76	0.26708
7.23	1.06	50.35	268.97	3.89	1.060	0.050	4.75	0.26897
7.24	1.08	51.14	262.48	3.89	1.080	0.051	4.74	0.26248
7.25	1.11	52.93	267.26	3.89	1.110	0.053	4.77	0.26726
7.26	1.13	54.3	268.88	3.89	1.130	0.054	4.81	0.26888
7.27	1.13	54.78	271.4	3.89	1.130	0.055	4.85	0.2714
7.28	1.15	55.86	271.76	3.89	1.150	0.056	4.86	0.27176
7.29	1.16	56.97	257.61	3.89	1.160	0.057	4.91	0.25761
7.3	1.2	58.85	216.17	3.89	1.200	0.059	4.90	0.21617
7.31	1.17	60	218.42	3.89	1.170	0.060	5.13	0.21842
7.32	1.17	60.41	219.77	3.89	1.170	0.060	5.16	0.21977
7.33	1.2	60.41	218.51	3.93	1.200	0.060	5.03	0.21851
7.34	1.13	60.7	216.44	3.89	1.130	0.061	5.37	0.21644
7.35	1.14	61.46	222.65	3.93	1.140	0.061	5.39	0.22265
7.36	1.16	60.92	223.55	3.93	1.160	0.061	5.25	0.22355
7.37	1.14	61.05	222.29	3.93	1.140	0.061	5.36	0.22229
7.38	1.12	61.46	366.19	3.93	1.120	0.061	5.49	0.36619
7.39	1.14	60.64	253.92	4	1.140	0.061	5.32	0.25392
7.4	1.13	60.57	245.63	3.93	1.130	0.061	5.36	0.24563
7.41	1.1	61.88	229.95	3.93	1.100	0.062	5.63	0.22995

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.42	1.1	62	226.8	4	1.100	0.062	5.64	0.2268
7.43	1.09	62.04	221.48	3.93	1.090	0.062	5.69	0.22148
7.44	1.02	61.08	209.41	4	1.020	0.061	5.99	0.20941
7.45	0.99	61.02	204.72	4	0.990	0.061	6.16	0.20472
7.46	0.97	60.13	200.94	4	0.970	0.060	6.20	0.20094
7.47	0.93	60.09	195.8	4	0.930	0.060	6.46	0.1958
7.48	0.91	58.41	190.48	4	0.910	0.058	6.42	0.19048
7.49	0.9	57.8	187.78	4	0.900	0.058	6.42	0.18778
7.5	0.89	57.99	187.87	4	0.890	0.058	6.52	0.18787
7.51	0.87	58.21	192.29	4.04	0.870	0.058	6.69	0.19229
7.52	0.86	57.58	193.1	4.04	0.860	0.058	6.70	0.1931
7.53	0.84	57.13	196.97	4.04	0.840	0.057	6.80	0.19697
7.54	0.83	55.13	200.4	4.04	0.830	0.055	6.64	0.2004
7.55	0.83	53.98	202.83	4.04	0.830	0.054	6.50	0.20283
7.56	0.82	53.02	205.53	4.04	0.820	0.053	6.47	0.20553
7.57	0.82	51.59	205.8	4.04	0.820	0.052	6.29	0.2058
7.58	0.81	50.09	208.15	4.04	0.810	0.050	6.18	0.20815
7.59	0.81	48.57	208.78	3.98	0.810	0.049	6.00	0.20878
7.6	0.82	47.2	209.23	3.98	0.820	0.047	5.76	0.20923
7.61	0.83	45.92	210.04	3.98	0.830	0.046	5.53	0.21004
7.62	0.82	44.81	210.58	3.98	0.820	0.045	5.46	0.21058
7.63	0.82	43.5	211.84	3.98	0.820	0.044	5.30	0.21184
7.64	0.83	42.2	213.1	3.98	0.830	0.042	5.08	0.2131
7.65	0.86	38.41	215.89	3.98	0.860	0.038	4.47	0.21589
7.66	0.88	36.97	217.16	3.98	0.880	0.037	4.20	0.21716
7.67	0.88	35.86	217.97	4.02	0.880	0.036	4.08	0.21797
7.68	0.89	35.22	219.95	4.02	0.890	0.035	3.96	0.21995
7.69	0.92	34.23	222.56	4.02	0.920	0.034	3.72	0.22256
7.7	0.93	33.28	224.73	4.02	0.930	0.033	3.58	0.22473
7.71	0.95	32.64	226.44	4.02	0.950	0.033	3.44	0.22644
7.72	0.97	32.04	228.78	4.02	0.970	0.032	3.30	0.22878
7.73	0.99	32.2	231.84	4.02	0.990	0.032	3.25	0.23184
7.74	1.01	32.67	234.91	4.02	1.010	0.033	3.23	0.23491
7.75	1.01	33.31	237.25	4.02	1.010	0.033	3.30	0.23725
7.76	1.01	34.49	240.04	4.02	1.010	0.034	3.41	0.24004
7.77	1.02	34.94	243.92	4.02	1.020	0.035	3.43	0.24392
7.78	1.02	35.67	249.05	4.02	1.020	0.036	3.50	0.24905
7.79	1.03	36.46	251.4	4.02	1.030	0.036	3.54	0.2514
7.8	1.05	36.72	253.47	4.02	1.050	0.037	3.50	0.25347
7.81	1.07	36.85	255.45	4.07	1.070	0.037	3.44	0.25545
7.82	1.08	37.8	257.43	4.07	1.080	0.038	3.50	0.25743
7.83	1.08	39.04	258.24	4.07	1.080	0.039	3.61	0.25824
7.84	1.08	40.22	258.97	4.07	1.080	0.040	3.72	0.25897
7.85	1.1	40.83	259.51	4.07	1.100	0.041	3.71	0.25951
7.86	1.12	42.42	259.87	4.07	1.120	0.042	3.79	0.25987
7.87	1.12	42.99	259.78	4.07	1.120	0.043	3.84	0.25978
7.88	1.12	43.69	259.06	4.07	1.120	0.044	3.90	0.25906
7.89	1.09	45.19	258.61	4.07	1.090	0.045	4.15	0.25861
7.9	1.09	45.19	258.61	4.07	1.090	0.045	4.15	0.25861
7.91	1.09	45.19	258.61	4.07	1.090	0.045	4.15	0.25861
7.92	1.1	50.19	227.07	4.07	1.100	0.050	4.56	0.22707
7.93	1.1	52.48	226.53	4.11	1.100	0.052	4.77	0.22653
7.94	1.09	55	227.34	4.11	1.090	0.055	5.05	0.22734
7.95	1.08	57.51	228.42	4.11	1.080	0.058	5.33	0.22842
7.96	1.06	59.68	229.32	4.11	1.060	0.060	5.63	0.22932
7.97	1.06	61.85	229.86	4.11	1.060	0.062	5.83	0.22986
7.98	1.06	63.82	232.02	4.11	1.060	0.064	6.02	0.23202

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.99	1.07	65.38	233.92	4.11	1.070	0.065	6.11	0.23392
8	1.09	66.62	235.09	4.11	1.090	0.067	6.11	0.23509
8.01	1.1	68.02	236.35	4.11	1.100	0.068	6.18	0.23635
8.02	1.11	69.49	237.79	4.11	1.110	0.069	6.26	0.23779
8.03	1.12	69.84	239.23	4.16	1.120	0.070	6.24	0.23923
8.04	1.12	69.23	240.58	4.16	1.120	0.069	6.18	0.24058
8.05	1.13	68.44	241.48	4.16	1.130	0.068	6.06	0.24148
8.06	1.13	67.42	241.76	4.16	1.130	0.067	5.97	0.24176
8.07	1.13	66.81	242.12	4.16	1.130	0.067	5.91	0.24212
8.08	1.13	65.38	242.03	4.16	1.130	0.065	5.79	0.24203
8.09	1.15	63.34	241.76	4.16	1.150	0.063	5.51	0.24176
8.1	1.14	61.72	241.67	4.16	1.140	0.062	5.41	0.24167
8.11	1.14	60.7	242.21	4.16	1.140	0.061	5.32	0.24221
8.12	1.15	60.22	242.03	4.16	1.150	0.060	5.24	0.24203
8.13	1.11	59.14	240.94	4.16	1.110	0.059	5.33	0.24094
8.14	1.09	58.53	240.58	4.16	1.090	0.059	5.37	0.24058
8.15	1.08	57.58	240.31	4.2	1.080	0.058	5.33	0.24031
8.16	1.08	56.5	239.32	4.2	1.080	0.057	5.23	0.23932
8.17	1.04	55.83	238.69	4.2	1.040	0.056	5.37	0.23869
8.18	1.01	55	237.25	4.2	1.010	0.055	5.45	0.23725
8.19	0.99	54.87	236.62	4.2	0.990	0.055	5.54	0.23662
8.2	0.98	54.36	236.17	4.2	0.980	0.054	5.55	0.23617
8.21	0.96	54.23	235.63	4.2	0.960	0.054	5.65	0.23563
8.22	0.94	54.17	235.54	4.2	0.940	0.054	5.76	0.23554
8.23	0.93	54.17	235.63	4.2	0.930	0.054	5.82	0.23563
8.24	0.9	54.07	234.28	4.2	0.900	0.054	6.01	0.23428
8.25	0.87	52.86	233.74	4.2	0.870	0.053	6.08	0.23374
8.26	0.84	51.81	233.74	4.2	0.840	0.052	6.17	0.23374
8.27	0.79	51.37	233.2	4.2	0.790	0.051	6.50	0.2332
8.28	0.76	49.65	232.83	4.25	0.760	0.050	6.53	0.23283
8.29	0.74	47.55	232.56	4.25	0.740	0.048	6.43	0.23256
8.3	0.74	45.79	232.83	4.25	0.740	0.046	6.19	0.23283
8.31	0.74	43.28	233.2	4.25	0.740	0.043	5.85	0.2332
8.32	0.72	40.44	234.01	4.25	0.720	0.040	5.62	0.23401
8.33	0.75	38.22	234.28	4.25	0.750	0.038	5.10	0.23428
8.34	0.71	34.84	233.65	4.31	0.710	0.035	4.91	0.23365
8.35	0.72	31.91	234.1	4.25	0.720	0.032	4.43	0.2341
8.36	0.74	28.66	235.09	4.25	0.740	0.029	3.87	0.23509
8.37	0.75	23.79	236.08	4.3	0.750	0.024	3.17	0.23608
8.38	0.75	22.52	236.17	4.3	0.750	0.023	3.00	0.23617
8.39	0.76	21.21	236.17	4.3	0.760	0.021	2.79	0.23617
8.4	0.76	19.87	236.17	4.3	0.760	0.020	2.61	0.23617
8.41	0.76	19.36	236.17	4.3	0.760	0.019	2.55	0.23617
8.42	0.76	18.25	236.17	4.3	0.760	0.018	2.40	0.23617
8.43	0.77	17.64	235.9	4.3	0.770	0.018	2.29	0.2359
8.44	0.77	17.36	235.72	4.3	0.770	0.017	2.25	0.23572
8.45	0.76	17.01	235.45	4.3	0.760	0.017	2.24	0.23545
8.46	0.76	16.59	235.36	4.35	0.760	0.017	2.18	0.23536
8.47	0.76	16.4	235.18	4.35	0.760	0.016	2.16	0.23518
8.48	0.76	16.53	235	4.35	0.760	0.017	2.18	0.235
8.49	0.75	16.18	235	4.35	0.750	0.016	2.16	0.235
8.5	0.77	16.15	235.36	4.35	0.770	0.016	2.10	0.23536
8.51	0.77	16.34	235.63	4.35	0.770	0.016	2.12	0.23563
8.52	0.77	16.4	235.81	4.35	0.770	0.016	2.13	0.23581
8.53	0.79	16.53	236.35	4.35	0.790	0.017	2.09	0.23635
8.54	0.76	16.31	235	4.35	0.760	0.016	2.15	0.235
8.55	0.75	15.86	235	4.35	0.750	0.016	2.11	0.235

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
8.56	0.77	15.64	238.06	4.35	0.770	0.016	2.03	0.23806
8.57	0.8	15.41	240.04	4.4	0.800	0.015	1.93	0.24004
8.58	0.85	15.6	241.3	4.4	0.850	0.016	1.84	0.2413
8.59	0.89	15.13	242.21	4.4	0.890	0.015	1.70	0.24221
8.6	0.9	15.7	242.48	4.4	0.900	0.016	1.74	0.24248
8.61	0.91	16.15	242.03	4.4	0.910	0.016	1.77	0.24203
8.62	0.91	16.85	241.39	4.4	0.910	0.017	1.85	0.24139
8.63	0.9	17.55	241.03	4.4	0.900	0.018	1.95	0.24103
8.64	0.9	17.83	241.3	4.4	0.900	0.018	1.98	0.2413
8.65	0.91	18.79	242.3	4.4	0.910	0.019	2.06	0.2423
8.66	0.93	18.63	243.38	4.4	0.930	0.019	2.00	0.24338
8.67	0.98	19.04	244.1	4.4	0.980	0.019	1.94	0.2441
8.68	1.02	19.46	244.28	4.4	1.020	0.019	1.91	0.24428
8.69	1.03	19.9	243.56	4.45	1.030	0.020	1.93	0.24356
8.7	1.03	21.08	242.3	4.45	1.030	0.021	2.05	0.2423
8.71	0.97	22.61	241.03	4.45	0.970	0.023	2.33	0.24103
8.72	0.9	23.22	240.22	4.45	0.900	0.023	2.58	0.24022
8.73	0.85	23.57	240.13	4.45	0.850	0.024	2.77	0.24013
8.74	0.8	24.27	240.76	4.45	0.800	0.024	3.03	0.24076
8.75	0.76	23.12	241.39	4.45	0.760	0.023	3.04	0.24139
8.76	0.76	19.81	243.02	4.45	0.760	0.020	2.61	0.24302
8.77	0.78	17.64	244.82	4.45	0.780	0.018	2.26	0.24482
8.78	0.81	17.13	248.6	4.45	0.810	0.017	2.11	0.2486
8.79	0.86	17.1	251.13	4.45	0.860	0.017	1.99	0.25113
8.8	0.89	16.88	254.64	4.5	0.890	0.017	1.90	0.25464
8.81	0.96	16.53	264.1	4.5	0.960	0.017	1.72	0.2641
8.82	1.05	16.4	276.99	4.5	1.050	0.016	1.56	0.27699
8.83	1.11	15.95	286.09	4.5	1.110	0.016	1.44	0.28609
8.84	1.17	15.6	288.79	4.5	1.170	0.016	1.33	0.28879
8.85	1.18	14.94	290.5	4.5	1.180	0.015	1.27	0.2905
8.86	1.19	15	292.58	4.5	1.190	0.015	1.26	0.29258
8.87	1.2	16.24	294.65	4.5	1.200	0.016	1.35	0.29465
8.88	1.18	18.31	296.18	4.5	1.180	0.018	1.55	0.29618
8.89	1.17	20.32	299.06	4.5	1.170	0.020	1.74	0.29906
8.9	1.17	20.32	299.06	4.5	1.170	0.020	1.74	0.29906
8.91	1.17	20.32	299.06	4.5	1.170	0.020	1.74	0.29906
8.92	1.29	38.57	366.28	4.5	1.290	0.039	2.99	0.36628
8.93	1.28	40.67	371.06	4.5	1.280	0.041	3.18	0.37106
8.94	1.28	42.16	375.02	4.5	1.280	0.042	3.29	0.37502
8.95	1.27	42.9	378.81	4.5	1.270	0.043	3.38	0.37881
8.96	1.25	43.85	380.07	4.5	1.250	0.044	3.51	0.38007
8.97	1.22	44.97	380.88	4.5	1.220	0.045	3.69	0.38088
8.98	1.19	45.73	380.43	4.5	1.190	0.046	3.84	0.38043
8.99	1.16	45.13	379.26	4.5	1.160	0.045	3.89	0.37926
9	1.13	44.39	378.09	4.5	1.130	0.044	3.93	0.37809
9.01	1.12	43.79	377.28	4.5	1.120	0.044	3.91	0.37728
9.02	1.11	43.15	375.65	4.5	1.110	0.043	3.89	0.37565
9.03	1.1	42.99	373.94	4.5	1.100	0.043	3.91	0.37394
9.04	1.07	42.51	372.59	4.5	1.070	0.043	3.97	0.37259
9.05	1.04	42.2	371.69	4.55	1.040	0.042	4.06	0.37169
9.06	1.03	40.44	371.24	4.55	1.030	0.040	3.93	0.37124
9.07	1.03	39.84	372.68	4.55	1.030	0.040	3.87	0.37268
9.08	1.04	39.27	374.75	4.55	1.040	0.039	3.78	0.37475
9.09	1.06	38.47	377	4.55	1.060	0.038	3.63	0.377
9.1	1.06	37.74	378.36	4.5	1.060	0.038	3.56	0.37836
9.11	1.07	36.5	378.81	4.5	1.070	0.037	3.41	0.37881
9.12	1.07	35.41	378.9	4.55	1.070	0.035	3.31	0.3789

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.13	1.09	34.3	380.61	4.5	1.090	0.034	3.15	0.38061
9.14	1.11	33.12	383.49	4.5	1.110	0.033	2.98	0.38349
9.15	1.11	31.97	387.28	4.5	1.110	0.032	2.88	0.38728
9.16	1.12	31.34	389.98	4.55	1.120	0.031	2.80	0.38998
9.17	1.11	30.8	392.59	4.5	1.110	0.031	2.77	0.39259
9.18	1.11	29.55	394.94	4.55	1.110	0.030	2.66	0.39494
9.19	1.12	28.53	395.66	4.5	1.120	0.029	2.55	0.39566
9.2	1.12	27.74	397.01	4.55	1.120	0.028	2.48	0.39701
9.21	1.14	27.39	398.36	4.6	1.140	0.027	2.40	0.39836
9.22	1.16	27.67	398.81	4.6	1.160	0.028	2.39	0.39881
9.23	1.18	28.37	398.36	4.6	1.180	0.028	2.40	0.39836
9.24	1.17	29.39	397.82	4.6	1.170	0.029	2.51	0.39782
9.25	1.17	30.22	397.73	4.55	1.170	0.030	2.58	0.39773
9.26	1.16	31.15	396.74	4.55	1.160	0.031	2.69	0.39674
9.27	1.16	30.95	396.56	4.65	1.160	0.031	2.67	0.39656
9.28	1.17	31.59	396.92	4.6	1.170	0.032	2.70	0.39692
9.29	1.18	32.01	397.37	4.65	1.180	0.032	2.71	0.39737
9.3	1.18	32.9	397.55	4.65	1.180	0.033	2.79	0.39755
9.31	1.17	33.85	398.45	4.65	1.170	0.034	2.89	0.39845
9.32	1.2	34.81	399.53	4.65	1.200	0.035	2.90	0.39953
9.33	1.22	35.06	400.52	4.65	1.220	0.035	2.87	0.40052
9.34	1.23	34.94	400.97	4.65	1.230	0.035	2.84	0.40097
9.35	1.25	35	402.14	4.65	1.250	0.035	2.80	0.40214
9.36	1.27	35.38	403.59	4.65	1.270	0.035	2.79	0.40359
9.37	1.27	36.05	404.4	4.65	1.270	0.036	2.84	0.4044
9.38	1.27	36.11	404.85	4.65	1.270	0.036	2.84	0.40485
9.39	1.28	36.3	405.39	4.65	1.280	0.036	2.84	0.40539
9.4	1.27	36.46	405.03	4.65	1.270	0.036	2.87	0.40503
9.41	1.26	36.75	404.58	4.71	1.260	0.037	2.92	0.40458
9.42	1.26	36.75	404.58	4.65	1.260	0.037	2.92	0.40458
9.43	1.27	37.26	405.12	4.71	1.270	0.037	2.93	0.40512
9.44	1.27	37.45	404.85	4.71	1.270	0.037	2.95	0.40485
9.45	1.26	38.28	402.23	4.71	1.260	0.038	3.04	0.40223
9.46	1.25	38.92	402.14	4.71	1.250	0.039	3.11	0.40214
9.47	1.25	39.58	401.51	4.71	1.250	0.040	3.17	0.40151
9.48	1.25	39.81	400.79	4.71	1.250	0.040	3.18	0.40079
9.49	1.25	40.92	399.71	4.71	1.250	0.041	3.27	0.39971
9.5	1.23	42.32	399.17	4.71	1.230	0.042	3.44	0.39917
9.51	1.22	43.98	399.44	4.71	1.220	0.044	3.60	0.39944
9.52	1.21	44.9	399.53	4.71	1.210	0.045	3.71	0.39953
9.53	1.2	45.16	399.26	4.71	1.200	0.045	3.76	0.39926
9.54	1.18	45.54	398.99	4.71	1.180	0.046	3.86	0.39899
9.55	1.18	45.67	398.72	4.76	1.180	0.046	3.87	0.39872
9.56	1.18	45.6	399.35	4.76	1.180	0.046	3.86	0.39935
9.57	1.2	45.29	401.15	4.76	1.200	0.045	3.77	0.40115
9.58	1.24	44.23	405.3	4.76	1.240	0.044	3.57	0.4053
9.59	1.26	43.72	407.55	4.76	1.260	0.044	3.47	0.40755
9.6	1.29	43.31	409.8	4.76	1.290	0.043	3.36	0.4098
9.61	1.32	42.64	411.7	4.76	1.320	0.043	3.23	0.4117
9.62	1.38	42.32	413.41	4.76	1.380	0.042	3.07	0.41341
9.63	1.42	41.94	413.68	4.76	1.420	0.042	2.95	0.41368
9.64	1.44	41.53	413.86	4.76	1.440	0.042	2.88	0.41386
9.65	1.44	41.4	413.41	4.76	1.440	0.041	2.88	0.41341
9.66	1.45	41.78	413.41	4.76	1.450	0.042	2.88	0.41341
9.67	1.46	42.45	412.69	4.76	1.460	0.042	2.91	0.41269
9.68	1.47	43.6	412.33	4.81	1.470	0.044	2.97	0.41233
9.69	1.47	45.6	411.25	4.81	1.470	0.046	3.10	0.41125

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.7	1.47	47.55	411.34	4.81	1.470	0.048	3.23	0.41134
9.71	1.45	49.93	411.07	4.81	1.450	0.050	3.44	0.41107
9.72	1.43	51.62	410.34	4.81	1.430	0.052	3.61	0.41034
9.73	1.41	52.93	409.53	4.81	1.410	0.053	3.75	0.40953
9.74	1.4	54.49	408.63	4.81	1.400	0.054	3.89	0.40863
9.75	1.39	55.95	407.73	4.81	1.390	0.056	4.03	0.40773
9.76	1.33	59.27	404.49	4.81	1.330	0.059	4.46	0.40449
9.77	1.32	60.57	402.5	4.81	1.320	0.061	4.59	0.4025
9.78	1.28	62.58	401.78	4.81	1.280	0.063	4.89	0.40178
9.79	1.24	63.12	399.71	4.81	1.240	0.063	5.09	0.39971
9.8	1.22	63.12	399.44	4.81	1.220	0.063	5.17	0.39944
9.81	1.19	62.74	398.63	4.87	1.190	0.063	5.27	0.39863
9.82	1.18	62.29	396.74	4.87	1.180	0.062	5.28	0.39674
9.83	1.16	61.97	396.56	4.87	1.160	0.062	5.34	0.39656
9.84	1.14	61.62	396.38	4.87	1.140	0.062	5.41	0.39638
9.85	1.13	61.4	396.29	4.87	1.130	0.061	5.43	0.39629
9.86	1.11	61.05	396.65	4.87	1.110	0.061	5.50	0.39665
9.87	1.11	60.64	397.28	4.87	1.110	0.061	5.46	0.39728
9.88	1.1	60.06	397.1	4.87	1.100	0.060	5.46	0.3971
9.89	1.1	58.09	397.01	4.87	1.100	0.058	5.28	0.39701
9.9	1.1	58.09	397.01	4.87	1.100	0.058	5.28	0.39701
9.91	1.1	58.09	397.01	4.87	1.100	0.058	5.28	0.39701
9.92	1.12	53.76	362.32	4.87	1.120	0.054	4.80	0.36232
9.93	1.11	53.47	361.69	4.87	1.110	0.053	4.82	0.36169
9.94	1.1	52.74	360.79	4.87	1.100	0.053	4.79	0.36079
9.95	1.09	52.23	359.7	4.87	1.090	0.052	4.79	0.3597
9.96	1.08	51.62	358.62	4.87	1.080	0.052	4.78	0.35862
9.97	1.06	51.27	357.72	4.87	1.060	0.051	4.84	0.35772
9.98	1.05	50.89	357.09	4.87	1.050	0.051	4.85	0.35709
9.99	1.04	50.32	355.92	4.87	1.040	0.050	4.84	0.35592
10	1.02	49.04	353.76	4.87	1.020	0.049	4.81	0.35376
10.01	1.01	49.04	352.95	4.87	1.010	0.049	4.86	0.35295
10.02	1.01	48.53	352.23	4.87	1.010	0.049	4.80	0.35223
10.03	1	47.71	351.87	4.82	1.000	0.048	4.77	0.35187
10.04	0.99	46.85	352.23	4.92	0.990	0.047	4.73	0.35223
10.05	0.98	44.93	353.22	4.82	0.980	0.045	4.58	0.35322
10.06	0.99	42.39	354.12	4.87	0.990	0.042	4.28	0.35412
10.07	1.01	40.38	354.21	4.82	1.010	0.040	4.00	0.35421
10.08	1.02	38.92	354.03	4.82	1.020	0.039	3.82	0.35403
10.09	1.02	37.29	353.22	4.82	1.020	0.037	3.66	0.35322
10.1	1.01	35.35	351.78	4.87	1.010	0.035	3.50	0.35178
10.11	1	33.57	350.24	4.87	1.000	0.034	3.36	0.35024
10.12	0.99	32.07	350.15	4.87	0.990	0.032	3.24	0.35015
10.13	0.98	30.89	350.24	4.87	0.980	0.031	3.15	0.35024
10.14	0.97	29.33	349.61	4.87	0.970	0.029	3.02	0.34961
10.15	0.93	27.93	348.44	4.87	0.930	0.028	3.00	0.34844
10.16	0.93	26.78	347.9	4.87	0.930	0.027	2.88	0.3479
10.17	0.94	24.71	347.99	4.87	0.940	0.025	2.63	0.34799
10.18	0.96	23.22	348.35	4.87	0.960	0.023	2.42	0.34835
10.19	0.97	22.9	349.7	4.87	0.970	0.023	2.36	0.3497
10.2	0.97	22.32	349.7	4.87	0.970	0.022	2.30	0.3497
10.21	0.99	21.05	349.52	4.87	0.990	0.021	2.13	0.34952
10.22	0.99	21.05	349.52	4.87	0.990	0.021	2.13	0.34952
10.23	1.02	20.22	349.79	4.87	1.020	0.020	1.98	0.34979
10.24	1.21	21.18	359.79	4.87	1.210	0.021	1.75	0.35979
10.25	1.42	20.6	367.99	4.87	1.420	0.021	1.45	0.36799
10.26	1.69	19.74	375.2	4.87	1.690	0.020	1.17	0.3752

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.27	1.98	19.9	363.31	4.87	1.980	0.020	1.01	0.36331
10.28	2.23	20.41	232.56	4.82	2.230	0.020	0.92	0.23256
10.29	2.36	21.72	186.16	4.82	2.360	0.022	0.92	0.18616
10.3	2.4	22.29	156.42	4.82	2.400	0.022	0.93	0.15642
10.31	2.38	22.07	139.39	4.82	2.380	0.022	0.93	0.13939
10.32	2.36	21.34	129.48	4.82	2.360	0.021	0.90	0.12948
10.33	2.3	21.11	124.71	4.82	2.300	0.021	0.92	0.12471
10.34	2.18	21.94	121.91	4.82	2.180	0.022	1.01	0.12191
10.35	2.02	23.76	124.62	4.82	2.020	0.024	1.18	0.12462
10.36	1.92	25.22	127.86	4.82	1.920	0.025	1.31	0.12786
10.37	1.86	26.97	133.45	4.82	1.860	0.027	1.45	0.13345
10.38	1.85	29.14	138.67	4.88	1.850	0.029	1.58	0.13867
10.39	1.92	33.57	151.2	4.88	1.920	0.034	1.75	0.1512
10.4	1.99	36.81	153.09	4.88	1.990	0.037	1.85	0.15309
10.41	2.11	38.63	153.45	4.88	2.110	0.039	1.83	0.15345
10.42	2.22	38.34	152.46	4.88	2.220	0.038	1.73	0.15246
10.43	2.26	40.13	151.56	4.88	2.260	0.040	1.78	0.15156
10.44	2.23	40.25	147.59	4.88	2.230	0.040	1.80	0.14759
10.45	2.19	38.28	142.28	4.88	2.190	0.038	1.75	0.14228
10.46	2.09	35.09	137.41	4.88	2.090	0.035	1.68	0.13741
10.47	1.95	33.18	134.44	4.88	1.950	0.033	1.70	0.13444
10.48	1.76	30.99	133.63	4.88	1.760	0.031	1.76	0.13363
10.49	1.59	29.27	133.9	4.88	1.590	0.029	1.84	0.1339
10.5	1.46	27.23	133.54	4.88	1.460	0.027	1.87	0.13354
10.51	1.33	25.51	133.9	4.88	1.330	0.026	1.92	0.1339
10.52	1.24	25.89	135.34	4.88	1.240	0.026	2.09	0.13534
10.53	1.18	26.81	138.49	4.88	1.180	0.027	2.27	0.13849
10.54	1.2	26.78	150.03	4.88	1.200	0.027	2.23	0.15003
10.55	1.3	26.69	156.15	4.88	1.300	0.027	2.05	0.15615
10.56	1.51	25.48	158.32	4.94	1.510	0.025	1.69	0.15832
10.57	1.75	26.46	159.67	4.88	1.750	0.026	1.51	0.15967
10.58	1.94	27.74	160.3	4.88	1.940	0.028	1.43	0.1603
10.59	2.19	30.89	148.95	4.94	2.190	0.031	1.41	0.14895
10.6	2.28	32.64	138.31	4.94	2.280	0.033	1.43	0.13831
10.61	2.36	34.3	127.95	4.94	2.360	0.034	1.45	0.12795
10.62	2.37	34.68	119.84	4.94	2.370	0.035	1.46	0.11984
10.63	2.32	33.69	111.55	4.94	2.320	0.034	1.45	0.11155
10.64	2.32	33.69	111.55	4.94	2.320	0.034	1.45	0.11155
10.65	2.06	29.36	96.86	4.94	2.060	0.029	1.43	0.09686
10.66	1.92	26.62	92.9	4.94	1.920	0.027	1.39	0.0929
10.67	1.8	24.68	91.73	4.94	1.800	0.025	1.37	0.09173
10.68	1.71	22.32	92.63	4.94	1.710	0.022	1.31	0.09263
10.69	1.67	21.15	96.59	4.94	1.670	0.021	1.27	0.09659
10.7	1.72	21.31	98.13	4.94	1.720	0.021	1.24	0.09813
10.71	1.83	23.66	99.57	4.94	1.830	0.024	1.29	0.09957
10.72	1.96	26.53	101.28	4.94	1.960	0.027	1.35	0.10128
10.73	2.12	32.64	102.54	4.94	2.120	0.033	1.54	0.10254
10.74	2.21	35.54	101.91	4.94	2.210	0.036	1.61	0.10191
10.75	2.25	34.14	100.92	4.94	2.250	0.034	1.52	0.10092
10.76	2.18	32.23	101.28	4.99	2.180	0.032	1.48	0.10128
10.77	2.18	30.67	101.55	4.99	2.180	0.031	1.41	0.10155
10.78	2.12	30.38	101.64	4.99	2.120	0.030	1.43	0.10164
10.79	2.11	32.29	101.91	4.99	2.110	0.032	1.53	0.10191
10.8	2.07	33.22	101.82	4.99	2.070	0.033	1.60	0.10182
10.81	1.98	32.9	101.82	4.99	1.980	0.033	1.66	0.10182
10.82	1.84	33.82	102.09	4.99	1.840	0.034	1.84	0.10209
10.83	1.68	32.64	102.54	4.99	1.680	0.033	1.94	0.10254

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.84	1.54	32.39	102.63	4.99	1.540	0.032	2.10	0.10263
10.85	1.42	31.46	102.63	4.99	1.420	0.031	2.22	0.10263
10.86	1.32	29.74	102.54	4.99	1.320	0.030	2.25	0.10254
10.87	1.22	27.96	102.54	4.99	1.220	0.028	2.29	0.10254
10.88	1.14	27.55	102.9	5.05	1.140	0.028	2.42	0.1029
10.89	1.1	27.1	103.62	5.05	1.100	0.027	2.46	0.10362
10.9	1.1	27.1	103.62	5.05	1.100	0.027	2.46	0.10362
10.91	1.1	27.1	103.62	5.05	1.100	0.027	2.46	0.10362
10.92	1.69	32.83	168.14	5.05	1.690	0.033	1.94	0.16814
10.93	2.06	33.02	172.64	5.05	2.060	0.033	1.60	0.17264
10.94	2.54	33.79	136.51	5.05	2.540	0.034	1.33	0.13651
10.95	3.16	34.81	94.16	5.05	3.160	0.035	1.10	0.09416
10.96	3.79	34.94	75.06	5.05	3.790	0.035	0.92	0.07506
10.97	4.36	36.05	59.29	5.05	4.360	0.036	0.83	0.05929
10.98	4.92	36.85	50.19	5.01	4.920	0.037	0.75	0.05019
10.99	5.53	36.37	45.32	5.01	5.530	0.036	0.66	0.04532
11	6.88	33.6	38.3	5.01	6.880	0.034	0.49	0.0383
11.01	7.41	32.74	39.38	5.01	7.410	0.033	0.44	0.03938
11.02	7.73	31.11	41.18	5.01	7.730	0.031	0.40	0.04118
11.03	7.88	30.44	41.99	5.06	7.880	0.030	0.39	0.04199
11.04	7.84	30.19	42.35	5.06	7.840	0.030	0.39	0.04235
11.05	7.74	30.8	42.44	5.06	7.740	0.031	0.40	0.04244
11.06	7.64	31.59	40.46	5.06	7.640	0.032	0.41	0.04046
11.07	7.5	32.74	37.3	5.06	7.500	0.033	0.44	0.0373
11.08	7.39	33.76	35.77	5.06	7.390	0.034	0.46	0.03577
11.09	7.24	32.93	36.85	5.06	7.240	0.033	0.45	0.03685
11.1	7.1	29.14	37.75	5.06	7.100	0.029	0.41	0.03775
11.11	6.99	25.83	38.3	5.06	6.990	0.026	0.37	0.0383
11.12	6.94	25.67	38.84	5.06	6.940	0.026	0.37	0.03884
11.13	6.96	27.07	39.38	5.06	6.960	0.027	0.39	0.03938
11.14	7.03	28.92	40.01	5.06	7.030	0.029	0.41	0.04001
11.15	6.77	35.44	40.37	5.02	6.770	0.035	0.52	0.04037
11.16	6.22	39.23	40.19	5.02	6.220	0.039	0.63	0.04019
11.17	5.69	41.15	39.11	5.06	5.690	0.041	0.72	0.03911
11.18	5.19	41.21	31.63	5.02	5.190	0.041	0.79	0.03163
11.19	4.71	42.61	25.59	5.02	4.710	0.043	0.90	0.02559
11.2	4.33	41.43	23.97	5.02	4.330	0.041	0.96	0.02397
11.21	3.94	39.39	25.77	5.02	3.940	0.039	1.00	0.02577
11.22	3.59	37.61	26.49	5.02	3.590	0.038	1.05	0.02649
11.23	3.3	35.86	27.3	5.02	3.300	0.036	1.09	0.0273
11.24	3.08	38.98	28.2	5.02	3.080	0.039	1.27	0.0282
11.25	2.97	44.04	29.19	5.08	2.970	0.044	1.48	0.02919
11.26	3.04	46.18	30.46	5.08	3.040	0.046	1.52	0.03046
11.27	3.21	48.31	31.81	5.08	3.210	0.048	1.50	0.03181
11.28	3.35	51.02	32.62	5.08	3.350	0.051	1.52	0.03262
11.29	3.31	54.43	32.98	5.08	3.310	0.054	1.64	0.03298
11.3	3.04	54.07	33.16	5.08	3.040	0.054	1.78	0.03316
11.31	2.72	54.9	33.25	5.08	2.720	0.055	2.02	0.03325
11.32	2.42	53.72	33.07	5.08	2.420	0.054	2.22	0.03307
11.33	2.19	47.2	33.16	5.08	2.190	0.047	2.16	0.03316
11.34	1.93	43.76	33.61	5.08	1.930	0.044	2.27	0.03361
11.35	1.71	42.93	37.39	5.08	1.710	0.043	2.51	0.03739
11.36	1.53	41.05	39.29	5.08	1.530	0.041	2.68	0.03929
11.37	1.47	39.36	40.55	5.08	1.470	0.039	2.68	0.04055
11.38	1.37	37.26	44.06	5.08	1.370	0.037	2.72	0.04406
11.39	1.29	38.66	53.97	5.08	1.290	0.039	3.00	0.05397
11.4	1.31	37.48	57.49	5.08	1.310	0.037	2.86	0.05749

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.41	1.29	36.59	81.28	5.14	1.290	0.037	2.84	0.08128
11.42	1.18	37.1	85.33	5.14	1.180	0.037	3.14	0.08533
11.43	1.13	35.95	101.55	5.14	1.130	0.036	3.18	0.10155
11.44	1.11	32.16	133.81	5.14	1.110	0.032	2.90	0.13381
11.45	1.05	30.95	145.61	5.14	1.050	0.031	2.95	0.14561
11.46	1.02	30.38	155.43	5.14	1.020	0.030	2.98	0.15543
11.47	0.98	29.46	164.44	5.14	0.980	0.029	3.01	0.16444
11.48	0.96	29.74	188.41	5.14	0.960	0.030	3.10	0.18841
11.49	0.94	27.04	195.98	5.14	0.940	0.027	2.88	0.19598
11.5	0.92	25.22	200.67	5.14	0.920	0.025	2.74	0.20067
11.51	0.89	23.6	204.45	5.14	0.890	0.024	2.65	0.20445
11.52	0.86	22.32	209.59	5.14	0.860	0.022	2.60	0.20959
11.53	0.86	20.6	214.99	5.14	0.860	0.021	2.40	0.21499
11.54	0.85	18.76	218.78	5.14	0.850	0.019	2.21	0.21878
11.55	0.85	18.5	222.11	5.14	0.850	0.019	2.18	0.22211
11.56	0.85	18.88	226.17	5.2	0.850	0.019	2.22	0.22617
11.57	0.85	19.33	229.41	5.2	0.850	0.019	2.27	0.22941
11.58	0.84	19.52	231.93	5.2	0.840	0.020	2.32	0.23193
11.59	0.83	19.52	235.09	5.2	0.830	0.020	2.35	0.23509
11.6	0.84	19.17	237.97	5.2	0.840	0.019	2.28	0.23797
11.61	0.85	18.95	239.68	5.2	0.850	0.019	2.23	0.23968
11.62	0.83	19.94	242.12	5.2	0.830	0.020	2.40	0.24212
11.63	0.82	20.51	243.83	5.2	0.820	0.021	2.50	0.24383
11.64	0.82	20.95	245.81	5.2	0.820	0.021	2.55	0.24581
11.65	0.82	21.21	247.79	5.2	0.820	0.021	2.59	0.24779
11.66	0.83	21.66	249.59	5.2	0.830	0.022	2.61	0.24959
11.67	0.83	22.2	251.13	5.2	0.830	0.022	2.67	0.25113
11.68	0.83	22.8	252.93	5.2	0.830	0.023	2.75	0.25293
11.69	0.84	23.09	254.28	5.2	0.840	0.023	2.75	0.25428
11.7	0.85	23.22	255	5.2	0.850	0.023	2.73	0.255
11.71	0.86	23.92	255.54	5.2	0.860	0.024	2.78	0.25554
11.72	0.85	24.68	255.72	5.26	0.850	0.025	2.90	0.25572
11.73	0.84	25.22	256.35	5.26	0.840	0.025	3.00	0.25635
11.74	0.83	25.76	256.98	5.26	0.830	0.026	3.10	0.25698
11.75	0.83	26.08	257.52	5.26	0.830	0.026	3.14	0.25752
11.76	0.83	26.08	257.79	5.26	0.830	0.026	3.14	0.25779
11.77	0.83	26.02	257.79	5.26	0.830	0.026	3.13	0.25779
11.78	0.82	26.3	257.25	5.26	0.820	0.026	3.21	0.25725
11.79	0.8	27.01	256.98	5.26	0.800	0.027	3.38	0.25698
11.8	0.77	27.16	257.16	5.22	0.770	0.027	3.53	0.25716
11.81	0.75	27.29	257.79	5.22	0.750	0.027	3.64	0.25779
11.82	0.74	27.36	258.33	5.22	0.740	0.027	3.70	0.25833
11.83	0.75	27.07	259.15	5.22	0.750	0.027	3.61	0.25915
11.84	0.75	26.75	260.05	5.28	0.750	0.027	3.57	0.26005
11.85	0.75	26.3	261.4	5.28	0.750	0.026	3.51	0.2614
11.86	0.76	25.99	263.02	5.28	0.760	0.026	3.42	0.26302
11.87	0.75	25.48	264.55	5.28	0.750	0.025	3.40	0.26455
11.88	0.76	25.29	266.35	5.28	0.760	0.025	3.33	0.26635
11.89	0.76	25	267.8	5.28	0.760	0.025	3.29	0.2678
11.9	0.76	25	267.8	5.28	0.760	0.025	3.29	0.2678
11.91	0.76	25	267.8	5.28	0.760	0.025	3.29	0.2678
11.92	0.78	24.27	346.19	5.28	0.780	0.024	3.11	0.34619
11.93	0.77	23.98	347.36	5.28	0.770	0.024	3.11	0.34736
11.94	0.77	23.79	329.25	5.32	0.770	0.024	3.09	0.32925
11.95	0.78	23.28	342.22	5.28	0.780	0.023	2.98	0.34222
11.96	0.79	23.31	346.01	5.32	0.790	0.023	2.95	0.34601
11.97	0.79	23.47	348.62	5.28	0.790	0.023	2.97	0.34862

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.98	0.8	23.34	350.15	5.28	0.800	0.023	2.92	0.35015
11.99	0.81	23.12	351.05	5.34	0.810	0.023	2.85	0.35105
12	0.79	22.87	349.88	5.34	0.790	0.023	2.89	0.34988
12.01	0.79	22.71	348.17	5.34	0.790	0.023	2.87	0.34817
12.02	0.79	22.9	346.91	5.34	0.790	0.023	2.90	0.34691
12.03	0.78	23.22	346.37	5.3	0.780	0.023	2.98	0.34637
12.04	0.78	23.12	347.36	5.34	0.780	0.023	2.96	0.34736
12.05	0.77	22.9	349.79	5.3	0.770	0.023	2.97	0.34979
12.06	0.77	22.32	352.68	5.3	0.770	0.022	2.90	0.35268
12.07	0.78	21.91	353.94	5.34	0.780	0.022	2.81	0.35394
12.08	0.79	21.72	354.39	5.34	0.790	0.022	2.75	0.35439
12.09	0.79	21.24	355.74	5.3	0.790	0.021	2.69	0.35574
12.1	0.78	20.95	356.28	5.3	0.780	0.021	2.69	0.35628
12.11	0.78	20.6	357.72	5.3	0.780	0.021	2.64	0.35772
12.12	0.77	20.32	358.53	5.3	0.770	0.020	2.64	0.35853
12.13	0.77	20.35	359.97	5.3	0.770	0.020	2.64	0.35997
12.14	0.76	20.32	359.34	5.3	0.760	0.020	2.67	0.35934
12.15	0.76	20.16	359.43	5.3	0.760	0.020	2.65	0.35943
12.16	0.76	20.06	359.61	5.3	0.760	0.020	2.64	0.35961
12.17	0.75	19.74	360.15	5.3	0.750	0.020	2.63	0.36015
12.18	0.75	19.52	360.88	5.3	0.750	0.020	2.60	0.36088
12.19	0.74	19.52	364.03	5.36	0.740	0.020	2.64	0.36403
12.2	0.75	19.36	367.72	5.34	0.750	0.019	2.58	0.36772
12.21	0.76	19.14	372.86	5.26	0.760	0.019	2.52	0.37286
12.22	0.78	18.85	376.1	5.36	0.780	0.019	2.42	0.3761
12.23	0.8	18.82	378.54	5.32	0.800	0.019	2.35	0.37854
12.24	0.82	19.01	382.14	5.32	0.820	0.019	2.32	0.38214
12.25	0.86	19.27	389.26	5.32	0.860	0.019	2.24	0.38926
12.26	0.88	19.49	392.05	5.32	0.880	0.019	2.21	0.39205
12.27	0.87	19.74	394.22	5.32	0.870	0.020	2.27	0.39422
12.28	0.88	20.13	395.3	5.36	0.880	0.020	2.29	0.3953
12.29	0.88	20.06	397.01	5.32	0.880	0.020	2.28	0.39701
12.3	0.88	20.38	394.94	5.36	0.880	0.020	2.32	0.39494
12.31	0.88	20.76	382.41	5.36	0.880	0.021	2.36	0.38241
12.32	0.9	20.8	381.24	5.36	0.900	0.021	2.31	0.38124
12.33	0.91	21.31	390.88	5.32	0.910	0.021	2.34	0.39088
12.34	0.91	22.23	397.01	5.32	0.910	0.022	2.44	0.39701
12.35	0.92	22.96	410.43	5.36	0.920	0.023	2.50	0.41043
12.36	0.96	23.73	421.61	5.32	0.960	0.024	2.47	0.42161
12.37	0.95	24.17	422.42	5.36	0.950	0.024	2.54	0.42242
12.38	0.96	24.49	420.89	5.36	0.960	0.024	2.55	0.42089
12.39	0.97	24.62	423.5	5.36	0.970	0.025	2.54	0.4235
12.4	0.99	25.57	424.94	5.36	0.990	0.026	2.58	0.42494
12.41	0.98	26.3	400.79	5.36	0.980	0.026	2.68	0.40079
12.42	0.98	28.31	428.19	5.42	0.980	0.028	2.89	0.42819
12.43	0.97	28.82	434.58	5.42	0.970	0.029	2.97	0.43458
12.44	0.96	29.36	441.61	5.42	0.960	0.029	3.06	0.44161
12.45	0.95	29.78	439.18	5.42	0.950	0.030	3.13	0.43918
12.46	0.95	29.17	438.28	5.42	0.950	0.029	3.07	0.43828
12.47	0.94	29.04	432.96	5.42	0.940	0.029	3.09	0.43296
12.48	0.93	29.39	431.07	5.42	0.930	0.029	3.16	0.43107
12.49	0.92	29.62	430.08	5.42	0.920	0.030	3.22	0.43008
12.5	0.91	29.84	428.19	5.42	0.910	0.030	3.28	0.42819
12.51	0.9	30.64	426.2	5.42	0.900	0.031	3.40	0.4262
12.52	0.9	30.95	423.14	5.42	0.900	0.031	3.44	0.42314
12.53	0.89	31.05	419.44	5.42	0.890	0.031	3.49	0.41944
12.54	0.88	31.21	418.09	5.42	0.880	0.031	3.55	0.41809

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
12.55	0.88	30.48	418.9	5.39	0.880	0.030	3.46	0.4189
12.56	0.89	29.55	418.18	5.39	0.890	0.030	3.32	0.41818
12.57	0.89	29.27	416.29	5.39	0.890	0.029	3.29	0.41629
12.58	0.89	29.33	416.29	5.39	0.890	0.029	3.30	0.41629
12.59	0.87	30.06	416.2	5.45	0.870	0.030	3.46	0.4162
12.6	0.86	30.73	412.51	5.45	0.860	0.031	3.57	0.41251
12.61	0.85	31.21	411.43	5.45	0.850	0.031	3.67	0.41143
12.62	0.83	31.24	410.7	5.45	0.830	0.031	3.76	0.4107
12.63	0.82	31.21	409.71	5.45	0.820	0.031	3.81	0.40971
12.64	0.81	31.46	408.45	5.45	0.810	0.031	3.88	0.40845
12.65	0.8	31.46	407.1	5.45	0.800	0.031	3.93	0.4071
12.66	0.79	31.46	406.11	5.45	0.790	0.031	3.98	0.40611
12.67	0.78	31.78	404.67	5.45	0.780	0.032	4.07	0.40467
12.68	0.77	32.01	403.95	5.45	0.770	0.032	4.16	0.40395
12.69	0.76	32.07	403.86	5.45	0.760	0.032	4.22	0.40386
12.7	0.76	32.2	403.77	5.45	0.760	0.032	4.24	0.40377
12.71	0.76	31.85	403.59	5.45	0.760	0.032	4.19	0.40359
12.72	0.76	31.15	402.41	5.45	0.760	0.031	4.10	0.40241
12.73	0.77	30.51	402.23	5.45	0.770	0.031	3.96	0.40223
12.74	0.77	30.22	402.6	5.45	0.770	0.030	3.92	0.4026
12.75	0.78	29.9	402.41	5.45	0.780	0.030	3.83	0.40241
12.76	0.78	29.55	402.14	5.45	0.780	0.030	3.79	0.40214
12.77	0.78	29.23	400.16	5.45	0.780	0.029	3.75	0.40016
12.78	0.79	28.73	396.74	5.45	0.790	0.029	3.64	0.39674
12.79	0.79	28.69	393.85	5.51	0.790	0.029	3.63	0.39385
12.8	0.78	29.49	390.79	5.51	0.780	0.029	3.78	0.39079
12.81	0.78	29.87	388.18	5.51	0.780	0.030	3.83	0.38818
12.82	0.78	29.97	384.84	5.51	0.780	0.030	3.84	0.38484
12.83	0.79	30.06	382.77	5.51	0.790	0.030	3.81	0.38277
12.84	0.79	31.02	381.51	5.47	0.790	0.031	3.93	0.38151
12.85	0.78	32.26	379.62	5.51	0.780	0.032	4.14	0.37962
12.86	0.78	33.09	378.81	5.47	0.780	0.033	4.24	0.37881
12.87	0.78	33.79	378.09	5.47	0.780	0.034	4.33	0.37809
12.88	0.78	33.88	377	5.47	0.780	0.034	4.34	0.377
12.89	0.79	34.17	376.73	5.47	0.790	0.034	4.33	0.37673
12.9	0.79	34.17	376.73	5.47	0.790	0.034	4.33	0.37673
12.91	0.79	34.17	376.73	5.47	0.790	0.034	4.33	0.37673
12.92	0.79	35.73	377.64	5.47	0.790	0.036	4.52	0.37764
12.93	0.79	35.19	376.37	5.47	0.790	0.035	4.45	0.37637
12.94	0.79	34.94	373.67	5.47	0.790	0.035	4.42	0.37367
12.95	0.79	34.9	373.58	5.47	0.790	0.035	4.42	0.37358
12.96	0.79	34.81	374.3	5.47	0.790	0.035	4.41	0.3743
12.97	0.79	34.65	376.1	5.47	0.790	0.035	4.39	0.3761
12.98	0.79	34.46	377	5.47	0.790	0.034	4.36	0.377
12.99	0.79	33.85	377.82	5.47	0.790	0.034	4.28	0.37782
13	0.81	32.74	378.45	5.47	0.810	0.033	4.04	0.37845
13.01	0.83	31.88	379.44	5.47	0.830	0.032	3.84	0.37944
13.02	0.85	32.48	385.29	5.47	0.850	0.032	3.82	0.38529
13.03	0.88	32.67	390.7	5.54	0.880	0.033	3.71	0.3907
13.04	0.9	32.64	394.49	5.54	0.900	0.033	3.63	0.39449
13.05	0.91	32.51	394.67	5.54	0.910	0.033	3.57	0.39467
13.06	0.93	31.91	391.51	5.5	0.930	0.032	3.43	0.39151
13.07	0.91	32.07	369.17	5.5	0.910	0.032	3.52	0.36917
13.08	0.87	31.97	325.37	5.5	0.870	0.032	3.67	0.32537
13.09	0.82	32.55	387.91	5.5	0.820	0.033	3.97	0.38791
13.1	0.82	32.39	426.65	5.5	0.820	0.032	3.95	0.42665
13.11	0.82	31.97	444.58	5.5	0.820	0.032	3.90	0.44458

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.12	0.83	31.88	448.19	5.5	0.830	0.032	3.84	0.44819
13.13	0.84	32.01	448.91	5.5	0.840	0.032	3.81	0.44891
13.14	0.85	32.01	448.37	5.5	0.850	0.032	3.77	0.44837
13.15	0.86	31.72	447.2	5.5	0.860	0.032	3.69	0.4472
13.16	0.86	31.37	442.33	5.5	0.860	0.031	3.65	0.44233
13.17	0.86	31.24	431.25	5.5	0.860	0.031	3.63	0.43125
13.18	0.87	31.27	434.67	5.5	0.870	0.031	3.59	0.43467
13.19	0.89	30.99	437.83	5.5	0.890	0.031	3.48	0.43783
13.2	0.89	31.02	438.82	5.5	0.890	0.031	3.49	0.43882
13.21	0.9	31.94	437.92	5.5	0.900	0.032	3.55	0.43792
13.22	0.91	31.56	436.84	5.5	0.910	0.032	3.47	0.43684
13.23	0.95	30.57	443.86	5.5	0.950	0.031	3.22	0.44386
13.24	0.97	30.06	442.42	5.5	0.970	0.030	3.10	0.44242
13.25	0.97	30.06	442.42	5.5	0.970	0.030	3.10	0.44242
13.26	1	30.76	436.93	5.57	1.000	0.031	3.08	0.43693
13.27	1.05	30.73	416.65	5.57	1.050	0.031	2.93	0.41665
13.28	0.99	31.75	315.37	5.57	0.990	0.032	3.21	0.31537
13.29	0.99	32.01	314.92	5.57	0.990	0.032	3.23	0.31492
13.3	0.96	33.31	326.37	5.57	0.960	0.033	3.47	0.32637
13.31	0.93	34.58	357.9	5.57	0.930	0.035	3.72	0.3579
13.32	0.91	34.87	391.96	5.57	0.910	0.035	3.83	0.39196
13.33	0.88	35.67	404.22	5.57	0.880	0.036	4.05	0.40422
13.34	0.88	35.51	418.36	5.57	0.880	0.036	4.04	0.41836
13.35	0.88	35.54	424.85	5.57	0.880	0.036	4.04	0.42485
13.36	0.89	35.76	427.37	5.57	0.890	0.036	4.02	0.42737
13.37	0.9	35.76	428.1	5.57	0.900	0.036	3.97	0.4281
13.38	0.9	35.67	430.08	5.57	0.900	0.036	3.96	0.43008
13.39	0.91	35.95	437.92	5.57	0.910	0.036	3.95	0.43792
13.4	0.91	36.08	440.08	5.57	0.910	0.036	3.96	0.44008
13.41	0.91	36.81	440.35	5.57	0.910	0.037	4.05	0.44035
13.42	0.92	36.46	441.61	5.57	0.920	0.036	3.96	0.44161
13.43	0.93	36.08	441.97	5.57	0.930	0.036	3.88	0.44197
13.44	0.93	35.35	441.79	5.63	0.930	0.035	3.80	0.44179
13.45	0.93	34.43	442.6	5.57	0.930	0.034	3.70	0.4426
13.46	0.93	33.76	442.15	5.63	0.930	0.034	3.63	0.44215
13.47	0.94	34.11	442.42	5.63	0.940	0.034	3.63	0.44242
13.48	0.94	33.66	415.75	5.6	0.940	0.034	3.58	0.41575
13.49	0.96	33.69	403.23	5.6	0.960	0.034	3.51	0.40323
13.5	0.96	33.82	411.97	5.6	0.960	0.034	3.52	0.41197
13.51	0.95	34.3	415.39	5.63	0.950	0.034	3.61	0.41539
13.52	0.96	34.52	417.37	5.6	0.960	0.035	3.60	0.41737
13.53	0.96	34.46	430.35	5.6	0.960	0.034	3.59	0.43035
13.54	0.94	34.49	432.69	5.6	0.940	0.034	3.67	0.43269
13.55	0.93	34.43	431.7	5.6	0.930	0.034	3.70	0.4317
13.56	0.91	34.08	430.17	5.6	0.910	0.034	3.75	0.43017
13.57	0.89	33.57	427.19	5.6	0.890	0.034	3.77	0.42719
13.58	0.85	33.31	414.67	5.66	0.850	0.033	3.92	0.41467
13.59	0.83	33.57	408.27	5.66	0.830	0.034	4.04	0.40827
13.6	0.81	33.6	408.54	5.66	0.810	0.034	4.15	0.40854
13.61	0.79	33.63	406.92	5.66	0.790	0.034	4.26	0.40692
13.62	0.79	33.63	406.92	5.66	0.790	0.034	4.26	0.40692
13.63	0.77	33.57	406.65	5.66	0.770	0.034	4.36	0.40665
13.64	0.75	32.39	408.36	5.66	0.750	0.032	4.32	0.40836
13.65	0.75	31.78	409.62	5.66	0.750	0.032	4.24	0.40962
13.66	0.75	30.99	411.07	5.66	0.750	0.031	4.13	0.41107
13.67	0.76	30.06	412.42	5.66	0.760	0.030	3.96	0.41242
13.68	0.76	29.62	410.34	5.66	0.760	0.030	3.90	0.41034

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.69	0.76	29.46	413.32	5.66	0.760	0.029	3.88	0.41332
13.7	0.78	29.11	416.2	5.66	0.780	0.029	3.73	0.4162
13.71	0.78	28.92	417.82	5.66	0.780	0.029	3.71	0.41782
13.72	0.79	28.44	418.99	5.66	0.790	0.028	3.60	0.41899
13.73	0.8	27.96	419.9	5.66	0.800	0.028	3.50	0.4199
13.74	0.81	26.94	420.8	5.66	0.810	0.027	3.33	0.4208
13.75	0.82	26.4	420.98	5.66	0.820	0.026	3.22	0.42098
13.76	0.83	25.92	420.17	5.66	0.830	0.026	3.12	0.42017
13.77	0.84	25.95	418	5.66	0.840	0.026	3.09	0.418
13.78	0.83	26.27	417.01	5.66	0.830	0.026	3.17	0.41701
13.79	0.83	26.85	416.74	5.63	0.830	0.027	3.23	0.41674
13.8	0.82	27.8	416.29	5.66	0.820	0.028	3.39	0.41629
13.81	0.83	28.5	416.74	5.66	0.830	0.029	3.43	0.41674
13.82	0.83	29.36	417.82	5.63	0.830	0.029	3.54	0.41782
13.83	0.84	30.09	417.73	5.63	0.840	0.030	3.58	0.41773
13.84	0.85	30.57	416.2	5.7	0.850	0.031	3.60	0.4162
13.85	0.86	31.15	418.81	5.7	0.860	0.031	3.62	0.41881
13.86	0.87	32.36	421.25	5.7	0.870	0.032	3.72	0.42125
13.87	0.87	33.31	422.69	5.7	0.870	0.033	3.83	0.42269
13.88	0.87	34.46	425.84	5.7	0.870	0.034	3.96	0.42584
13.89	0.87	35.7	427.91	5.7	0.870	0.036	4.10	0.42791
13.9	0.87	35.7	427.91	5.7	0.870	0.036	4.10	0.42791
13.91	0.87	35.7	427.91	5.7	0.870	0.036	4.10	0.42791
13.92	0.89	38.09	407.91	5.7	0.890	0.038	4.28	0.40791
13.93	0.89	38.76	407.19	5.7	0.890	0.039	4.36	0.40719
13.94	0.89	39.14	408.09	5.7	0.890	0.039	4.40	0.40809
13.95	0.89	39.49	408.81	5.7	0.890	0.039	4.44	0.40881
13.96	0.89	39.68	408.27	5.7	0.890	0.040	4.46	0.40827
13.97	0.89	39.94	407.64	5.7	0.890	0.040	4.49	0.40764
13.98	0.89	40.03	408	5.7	0.890	0.040	4.50	0.408
13.99	0.9	39.87	408.9	5.7	0.900	0.040	4.43	0.4089
14	0.91	39.94	408.9	5.7	0.910	0.040	4.39	0.4089
14.01	0.91	40.25	410.16	5.7	0.910	0.040	4.42	0.41016
14.02	0.92	40.48	410.34	5.7	0.920	0.040	4.40	0.41034
14.03	0.92	40.7	411.07	5.67	0.920	0.041	4.42	0.41107
14.04	0.93	42.16	411.79	5.67	0.930	0.042	4.53	0.41179
14.05	0.93	43.41	412.6	5.76	0.930	0.043	4.67	0.4126
14.06	0.94	44.04	412.69	5.76	0.940	0.044	4.69	0.41269
14.07	0.94	44.74	413.41	5.73	0.940	0.045	4.76	0.41341
14.08	0.94	45.83	413.59	5.73	0.940	0.046	4.88	0.41359
14.09	0.94	46.91	413.32	5.73	0.940	0.047	4.99	0.41332
14.1	0.94	48.69	408.27	5.73	0.940	0.049	5.18	0.40827
14.11	0.95	49.81	406.47	5.73	0.950	0.050	5.24	0.40647
14.12	0.95	50.79	407.64	5.73	0.950	0.051	5.35	0.40764
14.13	0.96	51.69	405.75	5.73	0.960	0.052	5.38	0.40575
14.14	0.97	52.1	404.85	5.73	0.970	0.052	5.37	0.40485
14.15	0.97	53.02	405.21	5.73	0.970	0.053	5.47	0.40521
14.16	0.97	54.04	405.12	5.73	0.970	0.054	5.57	0.40512
14.17	0.97	54.9	405.66	5.73	0.970	0.055	5.66	0.40566
14.18	0.97	55.57	407.19	5.73	0.970	0.056	5.73	0.40719
14.19	0.97	56.08	408.09	5.73	0.970	0.056	5.78	0.40809
14.2	0.97	56.88	408.18	5.73	0.970	0.057	5.86	0.40818
14.21	0.97	57.58	406.47	5.73	0.970	0.058	5.94	0.40647
14.22	0.97	57.35	404.85	5.73	0.970	0.057	5.91	0.40485
14.23	0.98	56.88	403.23	5.73	0.980	0.057	5.80	0.40323
14.24	0.98	57.23	403.5	5.73	0.980	0.057	5.84	0.4035
14.25	0.98	58.41	404.58	5.73	0.980	0.058	5.96	0.40458

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.26	0.98	58.85	403.86	5.73	0.980	0.059	6.01	0.40386
14.27	0.99	58.69	404.04	5.7	0.990	0.059	5.93	0.40404
14.28	1	58.79	404.31	5.73	1.000	0.059	5.88	0.40431
14.29	1	58.88	404.94	5.7	1.000	0.059	5.89	0.40494
14.3	1	58.92	405.12	5.7	1.000	0.059	5.89	0.40512
14.31	1	58.85	404.31	5.77	1.000	0.059	5.89	0.40431
14.32	1.01	58.98	404.22	5.77	1.010	0.059	5.84	0.40422
14.33	1.01	59.58	405.66	5.77	1.010	0.060	5.90	0.40566
14.34	1.02	60.06	406.02	5.77	1.020	0.060	5.89	0.40602
14.35	1.02	60.73	408.18	5.77	1.020	0.061	5.95	0.40818
14.36	1.02	61.69	410.16	5.77	1.020	0.062	6.05	0.41016
14.37	1.02	62.32	409.89	5.77	1.020	0.062	6.11	0.40989
14.38	1.02	62.86	408.45	5.77	1.020	0.063	6.16	0.40845
14.39	1.02	63.28	407.64	5.77	1.020	0.063	6.20	0.40764
14.4	1.02	64.33	404.76	5.77	1.020	0.064	6.31	0.40476
14.41	1.03	65.03	401.6	5.77	1.030	0.065	6.31	0.4016
14.42	1.03	65.67	399.44	5.77	1.030	0.066	6.38	0.39944
14.43	1.02	66.43	400.34	5.77	1.020	0.066	6.51	0.40034
14.44	1.01	66.85	399.17	5.74	1.010	0.067	6.62	0.39917
14.45	1	67.7	397.82	5.77	1.000	0.068	6.77	0.39782
14.46	0.99	68.34	396.83	5.77	0.990	0.068	6.90	0.39683
14.47	0.98	68.66	395.57	5.74	0.980	0.069	7.01	0.39557
14.48	0.98	68.31	395.12	5.77	0.980	0.068	6.97	0.39512
14.49	0.98	67.99	393.31	5.74	0.980	0.068	6.94	0.39331
14.5	0.97	67.93	392.23	5.74	0.970	0.068	7.00	0.39223
14.51	0.97	68.06	392.23	5.74	0.970	0.068	7.02	0.39223
14.52	0.94	69.04	393.58	5.74	0.940	0.069	7.34	0.39358
14.53	0.93	69.39	396.2	5.74	0.930	0.069	7.46	0.3962
14.54	0.92	69.87	397.37	5.74	0.920	0.070	7.59	0.39737
14.55	0.92	70	399.62	5.74	0.920	0.070	7.61	0.39962
14.56	0.92	69.97	400.97	5.74	0.920	0.070	7.61	0.40097
14.57	0.94	69.77	404.04	5.74	0.940	0.070	7.42	0.40404
14.58	0.96	69.87	406.38	5.74	0.960	0.070	7.28	0.40638
14.59	0.97	69.3	408.63	5.74	0.970	0.069	7.14	0.40863
14.6	0.99	68.44	412.33	5.74	0.990	0.068	6.91	0.41233
14.61	1.02	67.74	417.91	5.74	1.020	0.068	6.64	0.41791
14.62	1.04	67.2	422.15	5.74	1.040	0.067	6.46	0.42215
14.63	1.06	67	425.39	5.74	1.060	0.067	6.32	0.42539
14.64	1.09	66.53	428.19	5.81	1.090	0.067	6.10	0.42819
14.65	1.11	66.08	418.63	5.78	1.110	0.066	5.95	0.41863
14.66	1.14	65.06	400.88	5.78	1.140	0.065	5.71	0.40088
14.67	1.17	63.85	389.53	5.78	1.170	0.064	5.46	0.38953
14.68	1.18	64.04	376.28	5.78	1.180	0.064	5.43	0.37628
14.69	1.18	65.13	367.45	5.78	1.180	0.065	5.52	0.36745
14.7	1.18	66.62	359.79	5.78	1.180	0.067	5.65	0.35979
14.71	1.18	68.12	354.75	5.78	1.180	0.068	5.77	0.35475
14.72	1.18	70.41	346.55	5.78	1.180	0.070	5.97	0.34655
14.73	1.17	71.62	345.29	5.78	1.170	0.072	6.12	0.34529
14.74	1.17	72.51	345.83	5.78	1.170	0.073	6.20	0.34583
14.75	1.16	73.53	350.51	5.78	1.160	0.074	6.34	0.35051
14.76	1.15	74.36	354.03	5.78	1.150	0.074	6.47	0.35403
14.77	1.15	74.68	354.39	5.78	1.150	0.075	6.49	0.35439
14.78	1.15	74.97	355.83	5.76	1.150	0.075	6.52	0.35583
14.79	1.15	75.22	356.28	5.78	1.150	0.075	6.54	0.35628
14.8	1.16	76.37	356.37	5.76	1.160	0.076	6.58	0.35637
14.81	1.17	76.94	356.73	5.76	1.170	0.077	6.58	0.35673
14.82	1.18	77.42	357.54	5.76	1.180	0.077	6.56	0.35754

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.83	1.21	78.31	358.71	5.76	1.210	0.078	6.47	0.35871
14.84	1.22	79.23	357.81	5.76	1.220	0.079	6.49	0.35781
14.85	1.24	80.57	357.81	5.76	1.240	0.081	6.50	0.35781
14.86	1.25	81.14	357.9	5.76	1.250	0.081	6.49	0.3579
14.87	1.26	80.22	357.18	5.76	1.260	0.080	6.37	0.35718
14.88	1.26	79.33	356.1	5.76	1.260	0.079	6.30	0.3561
14.89	1.24	77.9	354.39	5.76	1.240	0.078	6.28	0.35439
14.9	1.24	77.9	354.39	5.76	1.240	0.078	6.28	0.35439
14.91	1.24	77.9	354.39	5.76	1.240	0.078	6.28	0.35439
14.92	1.25	64.36	338.53	5.8	1.250	0.064	5.15	0.33853
14.93	1.25	68.02	343.03	5.8	1.250	0.068	5.44	0.34303
14.94	1.25	65.67	345.56	5.8	1.250	0.066	5.25	0.34556
14.95	1.24	63.72	346.64	5.8	1.240	0.064	5.14	0.34664
14.96	1.22	62	330.6	5.8	1.220	0.062	5.08	0.3306
14.97	1.18	59.81	333.12	5.8	1.180	0.060	5.07	0.33312
14.98	1.16	58.63	338.8	5.8	1.160	0.059	5.05	0.3388
14.99	1.14	57.99	356.28	5.77	1.140	0.058	5.09	0.35628
15	1.12	56.11	358.35	5.77	1.120	0.056	5.01	0.35835
15.01	1.1	55.38	357.9	5.77	1.100	0.055	5.03	0.3579
15.02	1.11	53.72	357.9	5.77	1.110	0.054	4.84	0.3579
15.03	1.11	52.64	364.57	5.84	1.110	0.053	4.74	0.36457
15.04	1.13	52.26	374.48	5.84	1.130	0.052	4.62	0.37448
15.05	1.22	52	381.06	5.84	1.220	0.052	4.26	0.38106
15.06	1.27	52.61	358.35	5.84	1.270	0.053	4.14	0.35835
15.07	1.35	54.01	359.16	5.84	1.350	0.054	4.00	0.35916
15.08	1.3	54.43	333.12	5.84	1.300	0.054	4.19	0.33312
15.09	1.25	54.36	272.3	5.84	1.250	0.054	4.35	0.2723
15.1	1.3	53.72	285.19	5.84	1.300	0.054	4.13	0.28519
15.11	1.33	52.96	278.61	5.84	1.330	0.053	3.98	0.27861
15.12	1.23	50.92	146.69	5.84	1.230	0.051	4.14	0.14669
15.13	1.15	49.49	154.17	5.84	1.150	0.049	4.30	0.15417
15.14	1.13	48.15	166.43	5.84	1.130	0.048	4.26	0.16643
15.15	1.09	47.74	175.08	5.84	1.090	0.048	4.38	0.17508
15.16	1.07	45.73	193.82	5.84	1.070	0.046	4.27	0.19382
15.17	1.02	42.1	228.69	5.84	1.020	0.042	4.13	0.22869
15.18	1.02	40.57	246.17	5.84	1.020	0.041	3.98	0.24617
15.19	1.01	38.95	257.34	5.84	1.010	0.039	3.86	0.25734
15.2	1.01	37.87	268.07	5.84	1.010	0.038	3.75	0.26807
15.21	1.01	35.35	280.32	5.84	1.010	0.035	3.50	0.28032
15.22	1.02	33.34	292.49	5.82	1.020	0.033	3.27	0.29249
15.23	1.05	31.66	323.75	5.84	1.050	0.032	3.02	0.32375
15.24	1.13	29.55	369.44	5.84	1.130	0.030	2.62	0.36944
15.25	1.18	29.62	383.49	5.84	1.180	0.030	2.51	0.38349
15.26	1.22	29.27	395.03	5.84	1.220	0.029	2.40	0.39503
15.27	1.28	27.45	402.23	5.84	1.280	0.027	2.14	0.40223
15.28	1.32	25.06	408.99	5.91	1.320	0.025	1.90	0.40899
15.29	1.34	25.09	415.75	5.84	1.340	0.025	1.87	0.41575
15.3	1.32	24.87	421.07	5.91	1.320	0.025	1.88	0.42107
15.31	1.29	23.88	425.3	5.91	1.290	0.024	1.85	0.4253
15.32	1.24	23.28	456.03	5.91	1.240	0.023	1.88	0.45603
15.33	1.19	23.18	458.1	5.91	1.190	0.023	1.95	0.4581
15.34	1.15	22.83	454.59	5.91	1.150	0.023	1.99	0.45459
15.35	1.1	22.36	449.45	5.91	1.100	0.022	2.03	0.44945
15.36	1.08	21.59	447.56	5.91	1.080	0.022	2.00	0.44756
15.37	1.05	21.02	443.95	5.91	1.050	0.021	2.00	0.44395
15.38	1.03	20.92	442.33	5.91	1.030	0.021	2.03	0.44233
15.39	1.03	20.22	443.68	5.91	1.030	0.020	1.96	0.44368

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.4	1.04	20.48	442.06	5.91	1.040	0.020	1.97	0.44206
15.41	1.03	20.41	438.91	5.91	1.030	0.020	1.98	0.43891
15.42	1.05	20.64	439.09	5.91	1.050	0.021	1.97	0.43909
15.43	1.11	20.86	450.17	5.91	1.110	0.021	1.88	0.45017
15.44	1.26	20.57	465.31	5.91	1.260	0.021	1.63	0.46531
15.45	1.5	20.09	475.22	5.91	1.500	0.020	1.34	0.47522
15.46	1.7	20.25	444.22	5.91	1.700	0.020	1.19	0.44422
15.47	1.85	20.64	393.76	5.91	1.850	0.021	1.12	0.39376
15.48	2.08	21.18	246.89	5.91	2.080	0.021	1.02	0.24689
15.49	2.17	21.88	204.45	5.91	2.170	0.022	1.01	0.20445
15.5	2.17	21.88	204.45	5.91	2.170	0.022	1.01	0.20445
15.51	2.26	21.88	199.59	5.98	2.260	0.022	0.97	0.19959
15.52	2.44	21.46	167.15	5.96	2.440	0.021	0.88	0.16715
15.53	3.11	22.77	137.23	5.96	3.110	0.023	0.73	0.13723
15.54	3.53	24.01	114.25	5.96	3.530	0.024	0.68	0.11425
15.55	3.9	25.83	91.1	5.96	3.900	0.026	0.66	0.0911
15.56	4.23	28.73	73.89	5.96	4.230	0.029	0.68	0.07389
15.57	4.46	30.99	64.16	5.96	4.460	0.031	0.69	0.06416
15.58	4.64	32.01	60.55	5.96	4.640	0.032	0.69	0.06055
15.59	4.79	32.83	58.93	5.96	4.790	0.033	0.69	0.05893
15.6	4.94	30.29	59.29	5.96	4.940	0.030	0.61	0.05929
15.61	5.07	26.05	60.55	5.96	5.070	0.026	0.51	0.06055
15.62	5.24	22.96	63.07	5.96	5.240	0.023	0.44	0.06307
15.63	5.62	18.31	66.14	5.96	5.620	0.018	0.33	0.06614
15.64	5.8	17.67	67.58	5.96	5.800	0.018	0.30	0.06758
15.65	6.05	17.87	69.11	5.96	6.050	0.018	0.30	0.06911
15.66	6.31	18.73	70.73	5.96	6.310	0.019	0.30	0.07073
15.67	6.59	20	72.27	5.96	6.590	0.020	0.30	0.07227
15.68	6.9	21.85	73.8	5.96	6.900	0.022	0.32	0.0738
15.69	7.11	23.22	75.33	5.96	7.110	0.023	0.33	0.07533
15.7	7.32	24.11	76.86	5.96	7.320	0.024	0.33	0.07686
15.71	7.43	24.01	78.12	5.96	7.430	0.024	0.32	0.07812
15.72	7.48	23.53	79.2	5.96	7.480	0.024	0.31	0.0792
15.73	7.51	22.13	80.01	5.96	7.510	0.022	0.29	0.08001
15.74	7.54	22.42	81.01	5.96	7.540	0.022	0.30	0.08101
15.75	7.43	18.88	82.27	5.96	7.430	0.019	0.25	0.08227
15.76	7.32	17.32	82.9	5.96	7.320	0.017	0.24	0.0829
15.77	7.16	16.94	83.35	5.96	7.160	0.017	0.24	0.08335
15.78	6.96	16.66	83.71	5.96	6.960	0.017	0.24	0.08371
15.79	6.74	16.69	84.07	5.96	6.740	0.017	0.25	0.08407
15.8	6.55	17.39	84.52	5.94	6.550	0.017	0.27	0.08452
15.81	6.4	18.44	85.15	5.94	6.400	0.018	0.29	0.08515
15.82	6.25	19.3	85.69	5.94	6.250	0.019	0.31	0.08569
15.83	6.11	20.38	86.32	5.94	6.110	0.020	0.33	0.08632
15.84	6.02	21.34	86.95	5.94	6.020	0.021	0.35	0.08695
15.85	5.93	21.85	87.67	5.94	5.930	0.022	0.37	0.08767
15.86	5.88	22.55	88.57	5.94	5.880	0.023	0.38	0.08857
15.87	5.92	22.96	89.66	5.94	5.920	0.023	0.39	0.08966
15.88	6.03	23.76	92	5.94	6.030	0.024	0.39	0.092
15.89	6.03	23.76	92	5.94	6.030	0.024	0.39	0.092
15.9	6.03	23.76	92	5.94	6.030	0.024	0.39	0.092
15.91	6.93	24.78	128.94	5.92	6.930	0.025	0.36	0.12894
15.92	7.3	24.27	130.2	5.92	7.300	0.024	0.33	0.1302
15.93	7.65	24.52	131.19	5.92	7.650	0.025	0.32	0.13119
15.94	7.93	24.36	132.28	5.92	7.930	0.024	0.31	0.13228
15.95	8.13	24.14	132.82	5.92	8.130	0.024	0.30	0.13282
15.96	8.17	24.3	132.91	5.92	8.170	0.024	0.30	0.13291

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Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.97	8.11	23.02	132.64	5.92	8.110	0.023	0.28	0.13264
15.98	7.95	22.64	132.1	5.92	7.950	0.023	0.28	0.1321
15.99	7.75	22.39	131.56	5.92	7.750	0.022	0.29	0.13156
16	7.54	20.86	130.92	5.92	7.540	0.021	0.28	0.13092
16.01	7.34	19.81	130.38	5.92	7.340	0.020	0.27	0.13038
16.02	7.08	18.6	129.66	5.9	7.080	0.019	0.26	0.12966
16.03	7.08	18.6	129.66	5.9	7.080	0.019	0.26	0.12966
16.04	6.83	18.76	129.12	5.9	6.830	0.019	0.27	0.12912
16.05	6.34	18.57	128.04	5.9	6.340	0.019	0.29	0.12804
16.06	6.1	19.04	127.77	5.9	6.100	0.019	0.31	0.12777
16.07	5.87	19.39	127.5	5.9	5.870	0.019	0.33	0.1275
16.08	5.64	18.47	127.05	5.9	5.640	0.018	0.33	0.12705
16.09	5.4	18.53	126.69	5.9	5.400	0.019	0.34	0.12669
16.1	5.06	18.44	125.79	5.9	5.060	0.018	0.36	0.12579
16.11	4.69	19.46	124.8	5.9	4.690	0.019	0.41	0.1248
16.12	4.24	20.99	123.72	5.9	4.240	0.021	0.50	0.12372
16.13	3.83	23.85	122.63	5.92	3.830	0.024	0.62	0.12263
16.14	3.45	27.9	122.09	5.9	3.450	0.028	0.81	0.12209
16.15	3.18	34.81	122.27	5.97	3.180	0.035	1.09	0.12227
16.16	2.97	41.43	122.36	5.97	2.970	0.041	1.39	0.12236
16.17	2.74	48.6	122.63	5.97	2.740	0.049	1.77	0.12263
16.18	2.48	54.58	123	5.97	2.480	0.055	2.20	0.123
16.19	2.2	60.44	123.54	5.97	2.200	0.060	2.75	0.12354
16.2	2.1	59.58	125.79	5.97	2.100	0.060	2.84	0.12579
16.21	1.98	58.53	128.49	5.97	1.980	0.059	2.96	0.12849
16.22	1.87	57.42	132.28	5.97	1.870	0.057	3.07	0.13228
16.23	1.71	58.92	137.14	5.97	1.710	0.059	3.45	0.13714
16.24	1.67	57.58	141.2	5.97	1.670	0.058	3.45	0.1412
16.25	1.72	54.93	144.17	6.03	1.720	0.055	3.19	0.14417
16.26	1.69	56.46	145.25	6.03	1.690	0.056	3.34	0.14525
16.27	1.68	57.1	146.24	5.97	1.680	0.057	3.40	0.14624
16.28	1.66	56.69	146.78	6.03	1.660	0.057	3.42	0.14678
16.29	1.65	57.8	147.68	6.03	1.650	0.058	3.50	0.14768
16.3	1.63	60	147.68	6.02	1.630	0.060	3.68	0.14768
16.31	1.65	61.49	147.23	6.02	1.650	0.061	3.73	0.14723
16.32	1.66	64.2	147.05	6.02	1.660	0.064	3.87	0.14705
16.33	1.63	66.85	147.05	6.02	1.630	0.067	4.10	0.14705
16.34	1.61	70.38	147.23	6.02	1.610	0.070	4.37	0.14723
16.35	1.61	74.52	147.68	6.02	1.610	0.075	4.63	0.14768
16.36	1.64	76.97	148.13	6.02	1.640	0.077	4.69	0.14813
16.37	1.76	76.84	148.95	6.02	1.760	0.077	4.37	0.14895
16.38	1.85	78.5	150.3	6.02	1.850	0.079	4.24	0.1503
16.39	1.94	82.26	151.47	6.02	1.940	0.082	4.24	0.15147
16.4	2.07	84.46	152.91	6.02	2.070	0.084	4.08	0.15291
16.41	2.1	87	150.21	6.02	2.100	0.087	4.14	0.15021
16.42	1.8	96.37	178.32	6.02	1.800	0.096	5.35	0.17832
16.43	1.8	96.37	178.32	6.02	1.800	0.096	5.35	0.17832
16.44	1.78	94.74	182.74	6.02	1.780	0.095	5.32	0.18274
16.45	1.76	94.77	181.56	6.02	1.760	0.095	5.38	0.18156
16.46	1.63	93.79	181.29	6.02	1.630	0.094	5.75	0.18129
16.47	1.59	92.86	180.12	6.02	1.590	0.093	5.84	0.18012
16.48	1.57	91.59	178.14	6.09	1.570	0.092	5.83	0.17814
16.49	1.54	90.12	176.16	6.02	1.540	0.090	5.85	0.17616
16.5	1.5	89.87	174	6.02	1.500	0.090	5.99	0.174
16.51	1.41	91.49	171.29	6.09	1.410	0.091	6.49	0.17129
16.52	1.32	92.9	167.87	6.09	1.320	0.093	7.04	0.16787
16.53	1.23	93.4	164.62	6.09	1.230	0.093	7.59	0.16462

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
16.54	1.13	93.56	161.47	6.09	1.130	0.094	8.28	0.16147
16.55	1.05	93.5	159.94	6.09	1.050	0.094	8.90	0.15994
16.56	1	94.23	158.41	6.09	1.000	0.094	9.42	0.15841
16.57	0.93	92.42	157.06	6.09	0.930	0.092	9.94	0.15706
16.58	0.82	90.63	155.7	6.09	0.820	0.091	11.05	0.1557
16.59	0.78	88.82	155.43	6.09	0.780	0.089	11.39	0.15543
16.6	0.75	86.69	155.7	6.09	0.750	0.087	11.56	0.1557
16.61	0.7	84.11	156.24	6.09	0.700	0.084	12.02	0.15624
16.62	0.68	80.41	157.51	6.09	0.680	0.080	11.83	0.15751
16.63	0.66	75.48	159.4	6.09	0.660	0.075	11.44	0.1594
16.64	0.64	62.99	213.55	6.09	0.640	0.063	9.84	0.21355
16.65	0.64	56.69	232.83	6.07	0.640	0.057	8.86	0.23283
16.66	0.64	56.69	232.83	6.07	0.640	0.057	8.86	0.23283
16.67	0.63	50.13	240.94	6.07	0.630	0.050	7.96	0.24094
16.68	0.63	43.37	243.92	6.07	0.630	0.043	6.88	0.24392
16.69	0.64	31.43	250.32	6.07	0.640	0.031	4.91	0.25032
16.7	0.64	27.64	259.78	6.07	0.640	0.028	4.32	0.25978
16.71	0.65	25.13	291.22	6.07	0.650	0.025	3.87	0.29122
16.72	0.65	23.79	316.18	6.07	0.650	0.024	3.66	0.31618
16.73	0.67	22.96	342.04	6.07	0.670	0.023	3.43	0.34204
16.74	0.69	22.48	362.95	6.07	0.690	0.022	3.26	0.36295
16.75	0.71	22.26	370.61	6.05	0.710	0.022	3.14	0.37061
16.76	0.72	22.29	374.03	6.05	0.720	0.022	3.10	0.37403
16.77	0.74	22.36	375.83	6.05	0.740	0.022	3.02	0.37583
16.78	0.76	22.45	376.28	6.12	0.760	0.022	2.95	0.37628
16.79	0.8	23.22	381.51	6.12	0.800	0.023	2.90	0.38151
16.8	0.83	23.82	384.75	6.12	0.830	0.024	2.87	0.38475
16.81	0.86	24.01	388.18	6.12	0.860	0.024	2.79	0.38818
16.82	0.9	23.82	391.06	6.12	0.900	0.024	2.65	0.39106
16.83	0.94	23.53	377.46	6.12	0.940	0.024	2.50	0.37746
16.84	0.97	23.79	391.24	6.12	0.970	0.024	2.45	0.39124
16.85	0.99	24.27	391.87	6.12	0.990	0.024	2.45	0.39187
16.86	1	24.68	393.13	6.11	1.000	0.025	2.47	0.39313
16.87	1.03	25.09	396.11	6.12	1.030	0.025	2.44	0.39611
16.88	1.05	25.57	399.44	6.11	1.050	0.026	2.44	0.39944
16.89	1.05	25.57	399.44	6.11	1.050	0.026	2.44	0.39944
16.9	1.05	25.57	399.44	6.11	1.050	0.026	2.44	0.39944
16.91	1.14	23.69	382.23	6.11	1.140	0.024	2.08	0.38223
16.92	1.13	23.44	383.13	6.11	1.130	0.023	2.07	0.38313
16.93	1.14	23.44	383.31	6.11	1.140	0.023	2.06	0.38331
16.94	1.13	24.23	383.13	6.11	1.130	0.024	2.14	0.38313
16.95	1.14	24.9	382.05	6.11	1.140	0.025	2.18	0.38205
16.96	1.15	26.02	382.05	6.11	1.150	0.026	2.26	0.38205
16.97	1.12	27.77	381.33	6.11	1.120	0.028	2.48	0.38133
16.98	1.11	29.17	380.97	6.11	1.110	0.029	2.63	0.38097
16.99	1.11	30.38	379.08	6.11	1.110	0.030	2.74	0.37908
17	1.06	31.3	358.98	6.09	1.060	0.031	2.95	0.35898
17.01	1.05	33.31	358.26	6.09	1.050	0.033	3.17	0.35826
17.02	1.03	34.39	358.62	6.09	1.030	0.034	3.34	0.35862
17.03	1.02	35.13	357.99	6.09	1.020	0.035	3.44	0.35799
17.04	1.02	36.5	357.36	6.09	1.020	0.037	3.58	0.35736
17.05	1.02	37.77	358.08	6.09	1.020	0.038	3.70	0.35808
17.06	1.01	40.38	358.26	6.09	1.010	0.040	4.00	0.35826
17.07	0.99	43.79	357.36	6.09	0.990	0.044	4.42	0.35736
17.08	0.96	45.7	357.99	6.09	0.960	0.046	4.76	0.35799
17.09	0.91	49.65	359.25	6.09	0.910	0.050	5.46	0.35925
17.1	0.9	50	360.43	6.08	0.900	0.050	5.56	0.36043

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.11	0.89	50.09	361.24	6.08	0.890	0.050	5.63	0.36124
17.12	0.88	49.84	362.5	6.09	0.880	0.050	5.66	0.3625
17.13	0.87	49.58	363.58	6.09	0.870	0.050	5.70	0.36358
17.14	0.87	48.25	365.29	6.08	0.870	0.048	5.55	0.36529
17.15	0.86	45.83	366.91	6.08	0.860	0.046	5.33	0.36691
17.16	0.86	43.41	368.81	6.16	0.860	0.043	5.05	0.36881
17.17	0.87	40.48	369.89	6.15	0.870	0.040	4.65	0.36989
17.18	0.87	37.71	371.6	6.15	0.870	0.038	4.33	0.3716
17.19	0.86	35.35	373.94	6.15	0.860	0.035	4.11	0.37394
17.2	0.86	33.5	377.55	6.15	0.860	0.034	3.90	0.37755
17.21	0.86	31.81	380.25	6.15	0.860	0.032	3.70	0.38025
17.22	0.86	30.13	382.05	6.15	0.860	0.030	3.50	0.38205
17.23	0.87	28.41	383.94	6.15	0.870	0.028	3.27	0.38394
17.24	0.89	25.54	387.82	6.15	0.890	0.026	2.87	0.38782
17.25	0.9	25	388.72	6.15	0.900	0.025	2.78	0.38872
17.26	0.91	24.33	389.17	6.15	0.910	0.024	2.67	0.38917
17.27	0.92	24.23	389.71	6.15	0.920	0.024	2.63	0.38971
17.28	0.93	23.73	390.16	6.15	0.930	0.024	2.55	0.39016
17.29	0.93	23.69	390.97	6.15	0.930	0.024	2.55	0.39097
17.3	0.94	23.63	391.87	6.15	0.940	0.024	2.51	0.39187
17.31	0.96	23.47	392.68	6.14	0.960	0.023	2.44	0.39268
17.32	0.96	23.79	393.76	6.14	0.960	0.024	2.48	0.39376
17.33	0.97	23.79	393.85	6.14	0.970	0.024	2.45	0.39385
17.34	0.96	23.6	393.4	6.14	0.960	0.024	2.46	0.3934
17.35	0.94	23.76	392.32	6.14	0.940	0.024	2.53	0.39232
17.36	0.94	23.57	391.51	6.14	0.940	0.024	2.51	0.39151
17.37	0.93	22.93	390.97	6.14	0.930	0.023	2.47	0.39097
17.38	0.94	22.58	390.43	6.14	0.940	0.023	2.40	0.39043
17.39	0.95	22.61	390.34	6.14	0.950	0.023	2.38	0.39034
17.4	0.94	23.34	389.71	6.14	0.940	0.023	2.48	0.38971
17.41	0.93	23.47	389.17	6.13	0.930	0.023	2.52	0.38917
17.42	0.92	23.6	389.08	6.14	0.920	0.024	2.57	0.38908
17.43	0.92	23.6	388.45	6.14	0.920	0.024	2.57	0.38845
17.44	0.92	23.47	389.17	6.14	0.920	0.023	2.55	0.38917
17.45	0.93	23.76	391.96	6.13	0.930	0.024	2.55	0.39196
17.46	0.94	23.34	395.57	6.13	0.940	0.023	2.48	0.39557
17.47	0.96	22.93	399.08	6.13	0.960	0.023	2.39	0.39908
17.48	0.98	22.55	403.5	6.13	0.980	0.023	2.30	0.4035
17.49	1.01	22.39	407.37	6.13	1.010	0.022	2.22	0.40737
17.5	1.03	22.36	409.89	6.13	1.030	0.022	2.17	0.40989
17.51	1.12	21.53	415.48	6.13	1.120	0.022	1.92	0.41548
17.52	1.16	21.43	418.09	6.13	1.160	0.021	1.85	0.41809
17.53	1.22	21.34	419.99	6.13	1.220	0.021	1.75	0.41999
17.54	1.27	21.75	418.63	6.13	1.270	0.022	1.71	0.41863
17.55	1.31	22.61	418.09	6.13	1.310	0.023	1.73	0.41809
17.56	1.34	24.11	416.74	6.13	1.340	0.024	1.80	0.41674
17.57	1.37	25.73	415.21	6.13	1.370	0.026	1.88	0.41521
17.58	1.4	27.99	414.85	6.13	1.400	0.028	2.00	0.41485
17.59	1.41	30.7	415.84	6.13	1.410	0.031	2.18	0.41584
17.6	1.43	33.31	416.47	6.2	1.430	0.033	2.33	0.41647
17.61	1.46	35.22	417.46	6.2	1.460	0.035	2.41	0.41746
17.62	1.5	37.32	418.09	6.2	1.500	0.037	2.49	0.41809
17.63	1.53	39.84	420.26	6.2	1.530	0.040	2.60	0.42026
17.64	1.59	44.87	420.8	6.19	1.590	0.045	2.82	0.4208
17.65	1.62	47.64	421.97	6.19	1.620	0.048	2.94	0.42197
17.66	1.65	50.95	421.07	6.19	1.650	0.051	3.09	0.42107
17.67	1.66	53.79	419.08	6.19	1.660	0.054	3.24	0.41908

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.68	1.7	56.27	417.1	6.19	1.700	0.056	3.31	0.4171
17.69	1.73	58.69	416.02	6.19	1.730	0.059	3.39	0.41602
17.7	1.75	61.72	412.51	6.19	1.750	0.062	3.53	0.41251
17.71	1.76	64.33	409.53	6.19	1.760	0.064	3.66	0.40953
17.72	1.77	67.39	406.92	6.19	1.770	0.067	3.81	0.40692
17.73	1.77	69.84	404.67	6.19	1.770	0.070	3.95	0.40467
17.74	1.77	72.35	401.87	6.19	1.770	0.072	4.09	0.40187
17.75	1.77	74.07	397.37	6.19	1.770	0.074	4.18	0.39737
17.76	1.76	76.84	394.67	6.19	1.760	0.077	4.37	0.39467
17.77	1.74	83.18	394.67	6.19	1.740	0.083	4.78	0.39467
17.78	1.76	84.17	392.95	6.19	1.760	0.084	4.78	0.39295
17.79	1.77	85.54	390.88	6.19	1.770	0.086	4.83	0.39088
17.8	1.77	88.18	388.81	6.19	1.770	0.088	4.98	0.38881
17.81	1.75	90.51	386.29	6.19	1.750	0.091	5.17	0.38629
17.82	1.72	92	383.22	6.19	1.720	0.092	5.35	0.38322
17.83	1.69	91.24	379.98	6.19	1.690	0.091	5.40	0.37998
17.84	1.66	91.65	378.09	6.19	1.660	0.092	5.52	0.37809
17.85	1.65	91.68	379.71	6.19	1.650	0.092	5.56	0.37971
17.86	1.67	91.88	380.97	6.19	1.670	0.092	5.50	0.38097
17.87	1.71	89.81	379.89	6.19	1.710	0.090	5.25	0.37989
17.88	1.74	88.47	380.7	6.19	1.740	0.088	5.08	0.3807
17.89	1.74	88.47	380.7	6.19	1.740	0.088	5.08	0.3807
17.9	1.74	88.47	380.7	6.19	1.740	0.088	5.08	0.3807
17.91	1.77	82.45	455.22	6.26	1.770	0.082	4.66	0.45522
17.92	1.79	83.18	450.53	6.26	1.790	0.083	4.65	0.45053
17.93	1.85	83.6	339.52	6.26	1.850	0.084	4.52	0.33952
17.94	1.65	84.36	121.28	6.26	1.650	0.084	5.11	0.12128
17.95	1.53	85.57	155.61	6.26	1.530	0.086	5.59	0.15561
17.96	1.42	83.37	157.33	6.26	1.420	0.083	5.87	0.15733
17.97	1.39	81.14	158.32	6.26	1.390	0.081	5.84	0.15832
17.98	1.39	77.7	158.68	6.26	1.390	0.078	5.59	0.15868
17.99	1.4	76.02	158.86	6.26	1.400	0.076	5.43	0.15886
18	1.37	76.37	159.94	6.26	1.370	0.076	5.57	0.15994
18.01	1.37	76.37	159.94	6.26	1.370	0.076	5.57	0.15994
18.02	1.32	76.72	162.73	6.26	1.320	0.077	5.81	0.16273
18.03	1.32	75.73	164.8	6.26	1.320	0.076	5.74	0.1648
18.04	1.3	75.92	168.23	6.26	1.300	0.076	5.84	0.16823
18.05	1.3	75.67	173.45	6.26	1.300	0.076	5.82	0.17345
18.06	1.32	76.02	178.86	6.33	1.320	0.076	5.76	0.17886
18.07	1.34	75.79	186.61	6.33	1.340	0.076	5.66	0.18661
18.08	1.38	73.98	197.6	6.33	1.380	0.074	5.36	0.1976
18.09	1.49	65.16	214.9	6.32	1.490	0.065	4.37	0.2149
18.1	1.58	62.29	227.25	6.33	1.580	0.062	3.94	0.22725
18.11	1.68	58.69	237.88	6.32	1.680	0.059	3.49	0.23788
18.12	1.81	54.68	248.6	6.33	1.810	0.055	3.02	0.2486
18.13	1.99	50.32	255.18	6.32	1.990	0.050	2.53	0.25518
18.14	2.2	45.64	259.51	6.32	2.200	0.046	2.07	0.25951
18.15	2.48	42.26	261.85	6.32	2.480	0.042	1.70	0.26185
18.16	2.78	42.07	261.58	6.32	2.780	0.042	1.51	0.26158
18.17	3.08	44.46	255.81	6.33	3.080	0.044	1.44	0.25581
18.18	3.38	47.99	236.26	6.33	3.380	0.048	1.42	0.23626
18.19	3.68	52.1	207.79	6.33	3.680	0.052	1.42	0.20779
18.2	3.93	59.04	175.71	6.32	3.930	0.059	1.50	0.17571
18.21	4.12	64.27	153	6.32	4.120	0.064	1.56	0.153
18.22	4.25	74.01	129.75	6.32	4.250	0.074	1.74	0.12975
18.23	4.14	75.25	119.12	6.32	4.140	0.075	1.82	0.11912
18.24	3.87	74.62	114.25	6.32	3.870	0.075	1.93	0.11425

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.25	3.42	67.83	112.45	6.32	3.420	0.068	1.98	0.11245
18.26	2.92	58.12	120.47	6.32	2.920	0.058	1.99	0.12047
18.27	2.62	50.54	117.32	6.32	2.620	0.051	1.93	0.11732
18.28	2.36	45.6	127.41	6.32	2.360	0.046	1.93	0.12741
18.29	2.31	47.07	129.75	6.39	2.310	0.047	2.04	0.12975
18.3	2.21	44.43	135.43	6.39	2.210	0.044	2.01	0.13543
18.31	2.12	46.69	142.91	6.39	2.120	0.047	2.20	0.14291
18.32	2.06	45.73	166.52	6.39	2.060	0.046	2.22	0.16652
18.33	2.02	47.23	224.45	6.39	2.020	0.047	2.34	0.22445
18.34	2.1	46.69	276.72	6.39	2.100	0.047	2.22	0.27672
18.35	2.37	49.52	400.97	6.39	2.370	0.050	2.09	0.40097
18.36	2.3	47.64	602.36	6.39	2.300	0.048	2.07	0.60236
18.37	2.38	44.08	629.66	6.39	2.380	0.044	1.85	0.62966
18.38	2.77	38.53	638.85	6.39	2.770	0.039	1.39	0.63885
18.39	2.56	35.92	91.19	6.39	2.560	0.036	1.40	0.09119
18.4	2.72	44.93	62.8	6.39	2.720	0.045	1.65	0.0628
18.41	2.34	43.79	155.25	6.39	2.340	0.044	1.87	0.15525
18.42	2.18	48.79	119.12	6.39	2.180	0.049	2.24	0.11912
18.43	2.25	46.72	283.93	6.39	2.250	0.047	2.08	0.28393
18.44	2.25	48.34	319.79	6.39	2.250	0.048	2.15	0.31979
18.45	2.25	50.38	365.38	6.47	2.250	0.050	2.24	0.36538
18.46	2.27	50.86	375.47	6.47	2.270	0.051	2.24	0.37547
18.47	2.29	50.51	381.51	6.47	2.290	0.051	2.21	0.38151
18.48	2.31	52.74	387.73	6.47	2.310	0.053	2.28	0.38773
18.49	2.32	56.78	392.59	6.47	2.320	0.057	2.45	0.39259
18.5	2.33	59.42	396.2	6.47	2.330	0.059	2.55	0.3962
18.51	2.32	68.79	397.37	6.47	2.320	0.069	2.97	0.39737
18.52	2.31	73.91	398.36	6.47	2.310	0.074	3.20	0.39836
18.53	2.29	80.57	400.97	6.47	2.290	0.081	3.52	0.40097
18.54	2.28	87	403.68	6.47	2.280	0.087	3.82	0.40368
18.55	2.31	87.16	403.5	6.47	2.310	0.087	3.77	0.4035
18.56	2.33	87.26	403.05	6.47	2.330	0.087	3.75	0.40305
18.57	2.34	89.26	402.78	6.47	2.340	0.089	3.81	0.40278
18.58	2.32	93.5	403.86	6.47	2.320	0.094	4.03	0.40386
18.59	2.29	94.3	401.6	6.47	2.290	0.094	4.12	0.4016
18.6	2.28	96.81	400.43	6.47	2.280	0.097	4.25	0.40043
18.61	2.28	99.23	399.44	6.47	2.280	0.099	4.35	0.39944
18.62	2.27	102.16	397.37	6.54	2.270	0.102	4.50	0.39737
18.63	2.24	103.98	396.56	6.47	2.240	0.104	4.64	0.39656
18.64	2.22	106.91	394.31	6.47	2.220	0.107	4.82	0.39431
18.65	2.19	108.66	394.94	6.54	2.190	0.109	4.96	0.39494
18.66	2.12	110.7	397.28	6.53	2.120	0.111	5.22	0.39728
18.67	2.12	110.7	397.28	6.53	2.120	0.111	5.22	0.39728
18.68	2.11	109.87	398.54	6.53	2.110	0.110	5.21	0.39854
18.69	2.04	110.86	404.4	6.54	2.040	0.111	5.43	0.4044
18.7	1.97	111.46	407.55	6.54	1.970	0.111	5.66	0.40755
18.71	1.97	108.82	409.53	6.54	1.970	0.109	5.52	0.40953
18.72	1.97	105.95	411.43	6.53	1.970	0.106	5.38	0.41143
18.73	1.97	104.55	411.7	6.53	1.970	0.105	5.31	0.4117
18.74	1.97	102.61	411.07	6.54	1.970	0.103	5.21	0.41107
18.75	1.95	101.62	408.81	6.53	1.950	0.102	5.21	0.40881
18.76	1.91	100.82	404.94	6.53	1.910	0.101	5.28	0.40494
18.77	1.87	99.68	398.36	6.53	1.870	0.100	5.33	0.39836
18.78	1.88	97.86	396.11	6.53	1.880	0.098	5.21	0.39611
18.79	1.86	95.98	391.24	6.54	1.860	0.096	5.16	0.39124
18.8	1.85	93.72	391.42	6.53	1.850	0.094	5.07	0.39142
18.81	1.85	92.99	393.49	6.53	1.850	0.093	5.03	0.39349

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.82	1.88	91.78	394.49	6.54	1.880	0.092	4.88	0.39449
18.83	1.9	90.73	395.03	6.53	1.900	0.091	4.78	0.39503
18.84	1.92	91.94	395.39	6.53	1.920	0.092	4.79	0.39539
18.85	1.94	94.26	396.65	6.53	1.940	0.094	4.86	0.39665
18.86	1.95	95.03	396.65	6.53	1.950	0.095	4.87	0.39665
18.87	1.96	94.81	396.11	6.53	1.960	0.095	4.84	0.39611
18.88	1.97	92.1	391.42	6.53	1.970	0.092	4.68	0.39142
18.89	1.97	92.1	391.42	6.53	1.970	0.092	4.68	0.39142
18.9	1.97	92.1	391.42	6.53	1.970	0.092	4.68	0.39142
18.91	1.96	92.26	369.44	6.61	1.960	0.092	4.71	0.36944
18.92	1.89	94.36	366.73	6.61	1.890	0.094	4.99	0.36673
18.93	1.84	96.59	366.55	6.61	1.840	0.097	5.25	0.36655
18.94	1.81	97.83	367.81	6.61	1.810	0.098	5.40	0.36781
18.95	1.76	98.31	373.31	6.61	1.760	0.098	5.59	0.37331
18.96	1.73	97.51	381.24	6.61	1.730	0.098	5.64	0.38124
18.97	1.72	94.55	389.89	6.6	1.720	0.095	5.50	0.38989
18.98	1.75	86.59	407.1	6.6	1.750	0.087	4.95	0.4071
18.99	1.76	81.88	412.51	6.6	1.760	0.082	4.65	0.41251
19	1.76	78.15	418.81	6.61	1.760	0.078	4.44	0.41881
19.01	1.77	76.65	427.82	6.6	1.770	0.077	4.33	0.42782
19.02	1.8	71.65	438.46	6.6	1.800	0.072	3.98	0.43846
19.03	1.84	65.13	446.93	6.61	1.840	0.065	3.54	0.44693
19.04	1.88	58.63	454.32	6.61	1.880	0.059	3.12	0.45432
19.05	1.92	51.97	460.98	6.61	1.920	0.052	2.71	0.46098
19.06	1.96	47.04	466.21	6.6	1.960	0.047	2.40	0.46621
19.07	1.99	44.9	469.27	6.61	1.990	0.045	2.26	0.46927
19.08	2.01	43.79	471.08	6.6	2.010	0.044	2.18	0.47108
19.09	2.01	43.15	472.52	6.6	2.010	0.043	2.15	0.47252
19.1	1.99	42.01	471.8	6.6	1.990	0.042	2.11	0.4718
19.11	1.96	41.65	469.63	6.6	1.960	0.042	2.13	0.46963
19.12	1.94	42.16	466.93	6.6	1.940	0.042	2.17	0.46693
19.13	1.91	43.25	464.05	6.6	1.910	0.043	2.26	0.46405
19.14	1.88	44.46	462.25	6.67	1.880	0.044	2.36	0.46225
19.15	1.84	45.06	459.72	6.67	1.840	0.045	2.45	0.45972
19.16	1.78	45.57	455.85	6.6	1.780	0.046	2.56	0.45585
19.17	1.71	46.15	452.24	6.67	1.710	0.046	2.70	0.45224
19.18	1.65	45.92	449.27	6.67	1.650	0.046	2.78	0.44927
19.19	1.61	45.41	447.2	6.67	1.610	0.045	2.82	0.4472
19.2	1.57	45.09	446.21	6.67	1.570	0.045	2.87	0.44621
19.21	1.52	44.17	445.58	6.67	1.520	0.044	2.91	0.44558
19.22	1.48	42.99	445.4	6.67	1.480	0.043	2.90	0.4454
19.23	1.41	40.57	446.3	6.67	1.410	0.041	2.88	0.4463
19.24	1.39	38.79	446.57	6.67	1.390	0.039	2.79	0.44657
19.25	1.37	37.13	446.93	6.67	1.370	0.037	2.71	0.44693
19.26	1.35	35.86	447.02	6.67	1.350	0.036	2.66	0.44702
19.27	1.32	34.74	446.66	6.67	1.320	0.035	2.63	0.44666
19.28	1.29	33.63	446.39	6.67	1.290	0.034	2.61	0.44639
19.29	1.27	32.2	445.22	6.67	1.270	0.032	2.54	0.44522
19.3	1.25	31.46	442.96	6.67	1.250	0.031	2.52	0.44296
19.31	1.23	30.8	439.9	6.67	1.230	0.031	2.50	0.4399
19.32	1.21	30.48	436.93	6.67	1.210	0.030	2.52	0.43693
19.33	1.18	29.97	434.13	6.67	1.180	0.030	2.54	0.43413
19.34	1.16	29.23	432.06	6.67	1.160	0.029	2.52	0.43206
19.35	1.13	28.53	429.36	6.67	1.130	0.029	2.52	0.42936
19.36	1.11	28.15	427.46	6.67	1.110	0.028	2.54	0.42746
19.37	1.1	28.09	427.28	6.66	1.100	0.028	2.55	0.42728
19.38	1.09	28.34	428.1	6.66	1.090	0.028	2.60	0.4281

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 02

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
19.39	1.09	28.73	428.91	6.74	1.090	0.029	2.64	0.42891
19.4	1.08	29.08	429.9	6.74	1.080	0.029	2.69	0.4299
19.41	1.06	28.95	430.17	6.74	1.060	0.029	2.73	0.43017
19.42	1.04	28.44	430.35	6.74	1.040	0.028	2.73	0.43035
19.43	1.04	27.83	428.82	6.74	1.040	0.028	2.68	0.42882
19.44	1.03	27.83	428.28	6.74	1.030	0.028	2.70	0.42828
19.45	1.03	27.71	428.91	6.74	1.030	0.028	2.69	0.42891
19.46	1.03	27.74	430.44	6.74	1.030	0.028	2.69	0.43044
19.47	1.04	27.42	429.63	6.74	1.040	0.027	2.64	0.42963
19.48	1.04	27.55	429	6.74	1.040	0.028	2.65	0.429
19.49	1.04	28.06	429.36	6.74	1.040	0.028	2.70	0.42936
19.5	1.04	28.15	429.63	6.74	1.040	0.028	2.71	0.42963
19.51	1.05	27.83	429.63	6.74	1.050	0.028	2.65	0.42963
19.52	1.06	27.64	433.59	6.74	1.060	0.028	2.61	0.43359
19.53	1.06	27.52	437.92	6.74	1.060	0.028	2.60	0.43792
19.54	1.09	27.45	442.42	6.74	1.090	0.027	2.52	0.44242
19.55	1.11	27.64	448.64	6.74	1.110	0.028	2.49	0.44864
19.56	1.16	28.09	464.23	6.74	1.160	0.028	2.42	0.46423
19.57	1.36	28.12	490.18	6.74	1.360	0.028	2.07	0.49018
19.58	1.72	27.64	519.01	6.74	1.720	0.028	1.61	0.51901
19.59	2.19	26.5	518.92	6.74	2.190	0.027	1.21	0.51892
19.6	2.65	25.67	300.59	6.74	2.650	0.026	0.97	0.30059
19.61	2.95	26.81	125.34	6.74	2.950	0.027	0.91	0.12534
19.62	3.3	33.44	75.15	6.74	3.300	0.033	1.01	0.07515
19.63	3.31	36.69	79.02	6.74	3.310	0.037	1.11	0.07902
19.64	3.24	39.17	80.37	6.74	3.240	0.039	1.21	0.08037
19.65	3.16	38.79	79.74	6.74	3.160	0.039	1.23	0.07974
19.66	3	38.28	79.11	6.74	3.000	0.038	1.28	0.07911
19.67	2.84	37.61	80.37	6.74	2.840	0.038	1.32	0.08037
19.68	2.69	36.18	80.83	6.73	2.690	0.036	1.34	0.08083
19.69	2.54	36.81	81.73	6.73	2.540	0.037	1.45	0.08173
19.7	2.37	37.51	82.54	6.73	2.370	0.038	1.58	0.08254
19.71	2.22	39.43	84.7	6.73	2.220	0.039	1.78	0.0847
19.72	2.05	41.27	87.22	6.73	2.050	0.041	2.01	0.08722
19.73	1.86	43.25	89.75	6.73	1.860	0.043	2.33	0.08975
19.74	1.68	41.85	95.42	6.73	1.680	0.042	2.49	0.09542
19.75	1.7	39.55	101.01	6.81	1.700	0.040	2.33	0.10101
19.76	1.87	41.11	122.36	6.81	1.870	0.041	2.20	0.12236
19.77	2.2	42.13	154.62	6.81	2.200	0.042	1.92	0.15462
19.78	2.6	41.91	164.26	6.81	2.600	0.042	1.61	0.16426
19.79	3.05	41.65	169.22	6.8	3.050	0.042	1.37	0.16922
19.8	3.44	42.99	164.08	6.8	3.440	0.043	1.25	0.16408
19.81	3.78	45.67	157.87	6.8	3.780	0.046	1.21	0.15787
19.82	4.08	49.17	156.69	6.8	4.080	0.049	1.21	0.15669
19.83	4.23	53.15	154.35	6.8	4.230	0.053	1.26	0.15435
19.84	4.33	55.03	149.58	6.8	4.330	0.055	1.27	0.14958
19.85	4.39	56.97	146.33	6.8	4.390	0.057	1.30	0.14633
19.86	4.48	60.51	134.53	6.8	4.480	0.061	1.35	0.13453
19.87	4.59	61.3	130.56	6.8	4.590	0.061	1.34	0.13056
19.88	4.68	64.33	132.91	6.8	4.680	0.064	1.37	0.13291
19.89	4.74	68.95	131.92	6.8	4.740	0.069	1.45	0.13192
19.9	4.8	71.18	128.94	6.8	4.800	0.071	1.48	0.12894
19.91	4.88	72.16	127.5	6.8	4.880	0.072	1.48	0.1275
19.92	4.94	73.5	127.86	6.8	4.940	0.074	1.49	0.12786
19.93	4.85	75.36	125.47	6.83	4.850	0.075	1.55	0.12547
19.94	4.56	74.62	123.52	6.83	4.560	0.075	1.64	0.12352
19.95	4.62	72.36	123.12	6.83	4.620	0.072	1.57	0.12312

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 02		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	**MPa**	**KPa**	**KPa**	**°**	**MPa**	**MPa**	**%**	
19.96	4.74	75.14	122.54	6.83	4.740	0.075	1.59	0.12254
19.97	4.26	71.26	122.45	6.83	4.260	0.071	1.67	0.12245
19.98	4.36	69.58	122.34	6.83	4.360	0.070	1.60	0.12234
19.99	4.36	69.75	120.41	6.83	4.360	0.070	1.60	0.12041
20	4.91	64.38	120.12	6.83	4.910	0.064	1.31	0.12012
20.01	4.76	67.49	119.35	6.83	4.760	0.067	1.42	0.11935
20.02	4.53	70.52	119.21	6.83	4.530	0.071	1.56	0.11921

PROVA PENETROMETRICA STATICA

secondo Raccomandazioni AGI (1977)

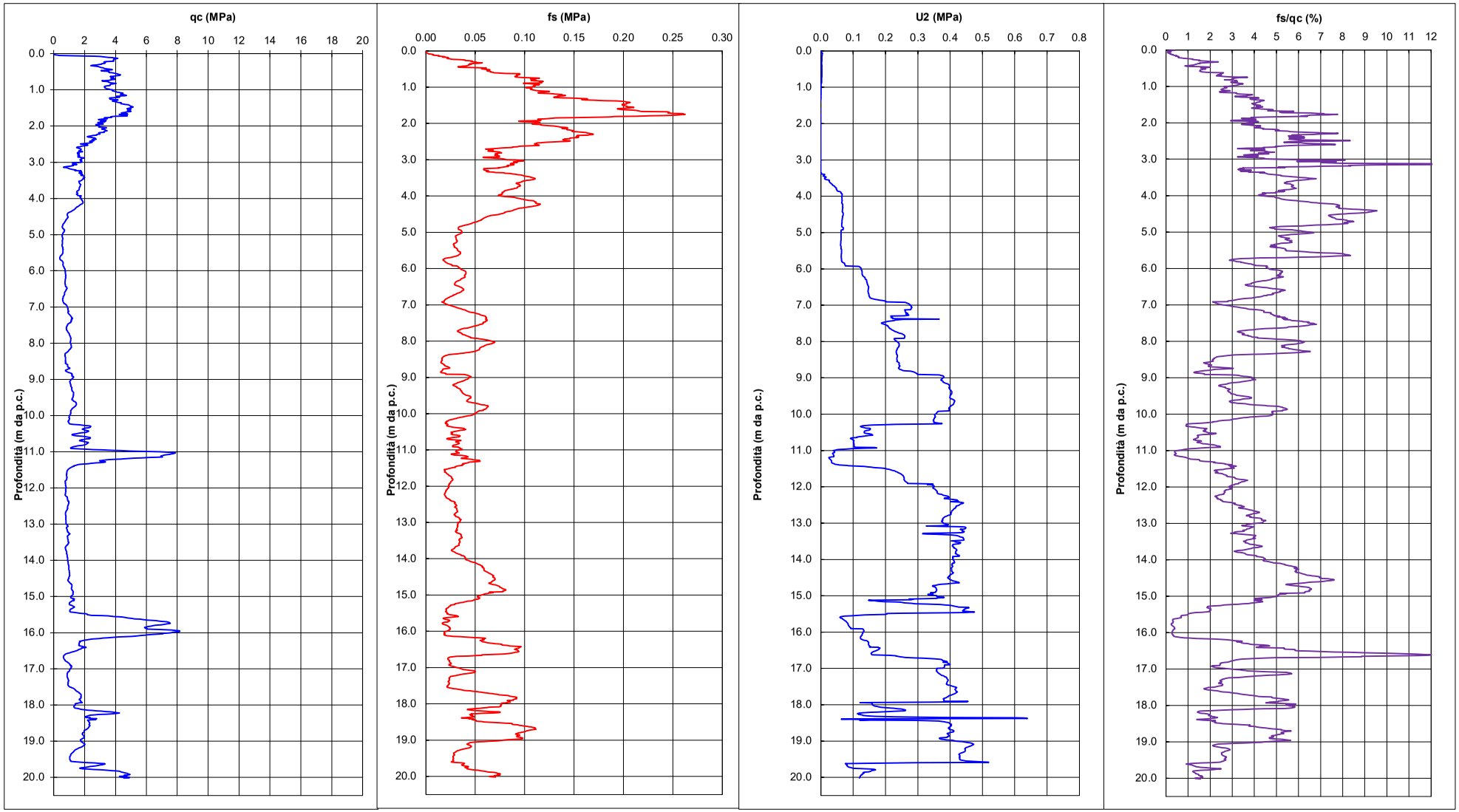
	Data giu-21		COMM. 000-20	PAG. 1	DI 1

Committente	**TERNA**						
Cantiere	**Poggio Renatico**						
N° Prova **CPTU 02**	Data prova **24/06/2021**	Operatore G.A.					

Punta N.	MKJ542	Quota p.c.:	0.00	m.s.l.m.	Coordinate **E**	0.00	**N** 0.00
Preforo	0.00 m	Livello H_2O	0.00	m da p.c.	Profondità finale	20.02	m da p.c.

NOTE

COMMITTENTE: ERM - ENI



COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.01	0.02	0	1.08	3.67	0.020	0.000	0.00	0.00108
0.02	0.12	0	0.72	3.57	0.120	0.000	0.00	0.00072
0.03	0.56	0	4.23	3.55	0.560	0.000	0.00	0.00423
0.04	1.56	0.06	0.9	3.28	1.560	0.000	0.00	0.0009
0.05	2.18	0.29	1.26	3.09	2.180	0.000	0.01	0.00126
0.06	2.67	0.45	1.26	3.04	2.670	0.000	0.02	0.00126
0.07	3.16	2.2	0.99	3.07	3.160	0.002	0.07	0.00099
0.08	3.17	2.87	0.81	3	3.170	0.003	0.09	0.00081
0.09	3.26	3.85	0.9	3	3.260	0.004	0.12	0.0009
0.1	3.28	4.68	0.9	3	3.280	0.005	0.14	0.0009
0.11	3.39	5.6	1.26	3	3.390	0.006	0.17	0.00126
0.12	3.67	7.2	1.44	3	3.670	0.007	0.20	0.00144
0.13	3.8	8.47	1.35	3	3.800	0.008	0.22	0.00135
0.14	3.76	9.14	1.08	3	3.760	0.009	0.24	0.00108
0.15	3.83	9.71	1.35	3	3.830	0.010	0.25	0.00135
0.16	4.13	10.16	1.71	3	4.130	0.010	0.25	0.00171
0.17	4.26	10.29	1.53	3	4.260	0.010	0.24	0.00153
0.18	3.92	10.8	1.17	3.07	3.920	0.011	0.28	0.00117
0.19	3.53	13.53	0.54	3.07	3.530	0.014	0.38	0.00054
0.2	3.11	16.59	0.18	3.04	3.110	0.017	0.53	0.00018
0.21	3.11	20.19	0.45	3.11	3.110	0.020	0.65	0.00045
0.22	3.2	21.91	0.81	3.11	3.200	0.022	0.68	0.00081
0.23	3.1	31.62	0.63	3.11	3.100	0.032	1.02	0.00063
0.24	3.03	32.04	0.36	3.04	3.030	0.032	1.06	0.00036
0.25	2.26	52.77	-1.08	3.11	2.260	0.053	2.33	-0.00108
0.26	1.96	59.42	-0.99	3.11	1.960	0.059	3.03	-0.00099
0.27	1.99	63.06	-0.63	3.04	1.990	0.063	3.17	-0.00063
0.28	2.13	58.09	-0.72	3.11	2.130	0.058	2.73	-0.00072
0.29	2.2	58.92	-0.63	3.04	2.200	0.059	2.68	-0.00063
0.3	2.38	55.86	-0.27	3.04	2.380	0.056	2.35	-0.00027
0.31	2.5	53.37	-0.27	3.04	2.500	0.053	2.13	-0.00027
0.32	2.5	53.98	-0.27	3.04	2.500	0.054	2.16	-0.00027
0.33	2.51	57.45	-0.36	3.04	2.510	0.057	2.29	-0.00036
0.34	2.57	59.23	-0.63	2.97	2.570	0.059	2.30	-0.00063
0.35	2.61	54.43	-1.08	2.97	2.610	0.054	2.09	-0.00108
0.36	2.59	52.51	-1.44	2.97	2.590	0.053	2.03	-0.00144
0.37	2.5	50.92	-1.89	2.9	2.500	0.051	2.04	-0.00189
0.38	2.58	47.1	-1.89	2.87	2.580	0.047	1.83	-0.00189
0.39	2.83	42.61	-1.17	2.87	2.830	0.043	1.51	-0.00117
0.4	3.02	41.43	-0.45	2.87	3.020	0.041	1.37	-0.00045
0.41	3.21	39.27	-0.09	2.87	3.210	0.039	1.22	-0.00009
0.42	3.44	36.3	-0.27	2.87	3.440	0.036	1.06	-0.00027
0.43	3.06	41.43	-1.53	2.8	3.060	0.041	1.35	-0.00153
0.44	2.69	51.94	-0.63	2.8	2.690	0.052	1.93	-0.00063
0.45	3.49	51.56	0	2.73	3.490	0.052	1.48	0
0.46	3.49	51.56	0	2.73	3.490	0.052	1.48	0
0.47	3.4	55.38	-0.72	2.73	3.400	0.055	1.63	-0.00072
0.48	2.96	64.74	-3.15	2.73	2.960	0.065	2.19	-0.00315
0.49	3.16	67.58	-0.18	2.66	3.160	0.068	2.14	-0.00018
0.5	2.92	66.88	-0.45	2.66	2.920	0.067	2.29	-0.00045
0.51	3.38	65.19	0.99	2.66	3.380	0.065	1.93	0.00099
0.52	3.52	66.56	1.26	2.66	3.520	0.067	1.89	0.00126
0.53	3.62	66.59	1.17	2.59	3.620	0.067	1.84	0.00117
0.54	3.8	64.3	1.35	2.56	3.800	0.064	1.69	0.00135
0.55	4.05	63.56	1.53	2.56	4.050	0.064	1.57	0.00153
0.56	4.11	69.71	1.08	2.63	4.110	0.070	1.70	0.00108
0.57	4.08	73.28	0.81	2.59	4.080	0.073	1.80	0.00081

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.58	4.28	67.99	0.81	2.63	4.280	0.068	1.59	0.00081
0.59	4.55	62.45	0.81	2.59	4.550	0.062	1.37	0.00081
0.6	4.8	53.5	0.72	2.59	4.800	0.054	1.11	0.00072
0.61	4.67	56.18	0.09	2.59	4.670	0.056	1.20	0.00009
0.62	4.55	67.35	-0.09	2.56	4.550	0.067	1.48	-0.00009
0.63	4.52	78.6	-0.18	2.56	4.520	0.079	1.74	-0.00018
0.64	4.35	81.81	-0.36	2.56	4.350	0.082	1.88	-0.00036
0.65	4.39	87.39	-0.18	2.63	4.390	0.087	1.99	-0.00018
0.66	4.47	91.43	-0.27	2.63	4.470	0.091	2.05	-0.00027
0.67	4.51	92.04	-0.45	2.63	4.510	0.092	2.04	-0.00045
0.68	4.33	96.37	-0.9	2.63	4.330	0.096	2.23	-0.0009
0.69	4.25	107.48	-0.99	2.63	4.250	0.107	2.53	-0.00099
0.7	4.43	109.9	-0.99	2.63	4.430	0.110	2.48	-0.00099
0.71	4.43	113.44	-0.99	2.61	4.430	0.113	2.56	-0.00099
0.72	4.54	110.67	-1.08	2.61	4.540	0.111	2.44	-0.00108
0.73	4.49	113.31	-1.44	2.61	4.490	0.113	2.52	-0.00144
0.74	4.2	113.56	-1.62	2.61	4.200	0.114	2.70	-0.00162
0.75	4.15	117.61	-1.44	2.61	4.150	0.118	2.83	-0.00144
0.76	4.15	122.26	-0.99	2.61	4.150	0.122	2.95	-0.00099
0.77	3.96	130.86	-0.99	2.61	3.960	0.131	3.30	-0.00099
0.78	4.12	129.42	-0.9	2.61	4.120	0.129	3.14	-0.0009
0.79	4.09	127.42	-1.17	2.61	4.090	0.127	3.12	-0.00117
0.8	3.97	125.09	-1.35	2.61	3.970	0.125	3.15	-0.00135
0.81	3.89	126.49	-1.53	2.61	3.890	0.126	3.25	-0.00153
0.82	3.64	143.31	-0.72	2.61	3.640	0.143	3.94	-0.00072
0.83	3.45	143.53	-0.63	2.61	3.450	0.144	4.16	-0.00063
0.84	3.36	142.83	-0.99	2.61	3.360	0.143	4.25	-0.00099
0.85	3.27	136.27	-0.99	2.61	3.270	0.136	4.17	-0.00099
0.86	3.38	128.5	-1.08	2.61	3.380	0.129	3.80	-0.00108
0.87	3.39	119.26	-1.53	2.61	3.390	0.119	3.52	-0.00153
0.88	3.43	114.52	-1.53	2.53	3.430	0.115	3.34	-0.00153
0.89	3.56	113.69	-1.26	2.53	3.560	0.114	3.19	-0.00126
0.9	3.64	114.01	-1.44	2.53	3.640	0.114	3.13	-0.00144
0.91	3.54	119.9	-1.71	2.61	3.540	0.120	3.39	-0.00171
0.92	3.38	124.77	-1.8	2.61	3.380	0.125	3.69	-0.0018
0.93	3.38	124.77	-1.8	2.61	3.380	0.125	3.69	-0.0018
0.94	3.38	124.77	-1.8	2.61	3.380	0.125	3.69	-0.0018
0.95	3.59	111.59	-1.62	2.53	3.590	0.112	3.11	-0.00162
0.96	3.35	112.96	-1.71	2.61	3.350	0.113	3.37	-0.00171
0.97	3.38	111.59	-1.71	2.61	3.380	0.112	3.30	-0.00171
0.98	3.58	106.49	-1.53	2.61	3.580	0.106	2.97	-0.00153
0.99	3.72	109.46	-1.62	2.61	3.720	0.109	2.94	-0.00162
1	3.67	114.39	-1.8	2.53	3.670	0.114	3.12	-0.0018
1.01	3.59	125.92	-1.8	2.53	3.590	0.126	3.51	-0.0018
1.02	3.47	130.98	-1.8	2.53	3.470	0.131	3.77	-0.0018
1.03	3.58	136.24	-1.8	2.53	3.580	0.136	3.81	-0.0018
1.04	3.57	135.44	-1.8	2.51	3.570	0.135	3.79	-0.0018
1.05	3.58	140.7	-1.8	2.53	3.580	0.141	3.93	-0.0018
1.06	3.67	140.98	-1.71	2.53	3.670	0.141	3.84	-0.00171
1.07	3.7	143.28	-2.43	2.51	3.700	0.143	3.87	-0.00243
1.08	3.55	153.18	-2.07	2.51	3.550	0.153	4.31	-0.00207
1.09	3.53	155.89	-1.89	2.51	3.530	0.156	4.42	-0.00189
1.1	3.23	163.59	-2.34	2.51	3.230	0.164	5.06	-0.00234
1.11	2.91	174.07	-2.16	2.51	2.910	0.174	5.98	-0.00216
1.12	3.11	174.77	-1.98	2.53	3.110	0.175	5.62	-0.00198
1.13	3.44	171.87	-1.98	2.53	3.440	0.172	5.00	-0.00198
1.14	3.45	169.64	-2.07	2.53	3.450	0.170	4.92	-0.00207

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.15	3.59	164.71	-2.16	2.53	3.590	0.165	4.59	-0.00216
1.16	3.67	159.1	-2.16	2.53	3.670	0.159	4.34	-0.00216
1.17	3.64	152.61	-1.98	2.53	3.640	0.153	4.19	-0.00198
1.18	3.69	145.09	-2.16	2.53	3.690	0.145	3.93	-0.00216
1.19	3.49	140.73	-2.52	2.53	3.490	0.141	4.03	-0.00252
1.2	3.21	142.16	-2.52	2.46	3.210	0.142	4.43	-0.00252
1.21	3.01	142.45	-2.52	2.46	3.010	0.142	4.73	-0.00252
1.22	3.18	143.72	-2.25	2.46	3.180	0.144	4.52	-0.00225
1.23	3.38	131.49	-2.16	2.46	3.380	0.131	3.89	-0.00216
1.24	3.44	128.63	-2.16	2.46	3.440	0.129	3.74	-0.00216
1.25	3.6	125.41	-2.34	2.53	3.600	0.125	3.48	-0.00234
1.26	3.48	132.89	-2.43	2.53	3.480	0.133	3.82	-0.00243
1.27	3.57	141.01	-2.52	2.46	3.570	0.141	3.95	-0.00252
1.28	3.68	146.94	-2.61	2.46	3.680	0.147	3.99	-0.00261
1.29	3.79	151.49	-2.25	2.46	3.790	0.151	4.00	-0.00225
1.3	3.79	151.49	-2.25	2.46	3.790	0.151	4.00	-0.00225
1.31	3.93	156.49	-3.15	2.53	3.930	0.156	3.98	-0.00315
1.32	4.12	160.41	-3.15	2.46	4.120	0.160	3.89	-0.00315
1.33	4.38	165.12	-3.15	2.53	4.380	0.165	3.77	-0.00315
1.34	4.63	169.99	-4.23	2.61	4.630	0.170	3.67	-0.00423
1.35	4.81	178.66	-7.48	2.53	4.810	0.179	3.71	-0.00748
1.36	4.88	190.38	-8.83	2.61	4.880	0.190	3.90	-0.00883
1.37	5.06	197.25	-5.77	2.61	5.060	0.197	3.90	-0.00577
1.38	5.23	205.95	-5.14	2.61	5.230	0.206	3.94	-0.00514
1.39	5.38	217.22	-5.95	2.61	5.380	0.217	4.04	-0.00595
1.4	5.58	224.83	-7.03	2.61	5.580	0.225	4.03	-0.00703
1.41	5.77	230.5	-5.86	2.61	5.770	0.231	3.99	-0.00586
1.42	5.98	234.2	-7.21	2.68	5.980	0.234	3.92	-0.00721
1.43	6.17	234.36	-6.94	2.68	6.170	0.234	3.80	-0.00694
1.44	6.28	234.87	-4.87	2.68	6.280	0.235	3.74	-0.00487
1.45	6.16	238.08	-4.69	2.68	6.160	0.238	3.86	-0.00469
1.46	6.08	240.31	-5.68	2.68	6.080	0.240	3.95	-0.00568
1.47	6.05	239.93	-5.59	2.68	6.050	0.240	3.97	-0.00559
1.48	6.05	237.57	-4.87	2.75	6.050	0.238	3.93	-0.00487
1.49	5.74	239.55	-5.14	2.75	5.740	0.240	4.17	-0.00514
1.5	5.51	237.06	-5.23	2.73	5.510	0.237	4.30	-0.00523
1.51	5.18	233.97	-4.14	2.73	5.180	0.234	4.52	-0.00414
1.52	4.6	235.69	-3.78	2.73	4.600	0.236	5.12	-0.00378
1.53	4.35	229.87	-2.88	2.8	4.350	0.230	5.28	-0.00288
1.54	4.44	221.14	-2.79	2.8	4.440	0.221	4.98	-0.00279
1.55	4.48	211.04	-2.61	2.8	4.480	0.211	4.71	-0.00261
1.56	4.63	198.59	-2.34	2.79	4.630	0.199	4.29	-0.00234
1.57	4.69	193.43	-2.43	2.79	4.690	0.193	4.12	-0.00243
1.58	4.5	194.36	-2.61	2.86	4.500	0.194	4.32	-0.00261
1.59	4.27	198.75	-3.06	2.86	4.270	0.199	4.65	-0.00306
1.6	4.11	206.08	-2.79	2.86	4.110	0.206	5.01	-0.00279
1.61	4.12	210.89	-2.97	2.86	4.120	0.211	5.12	-0.00297
1.62	4	223.4	-2.34	2.86	4.000	0.223	5.59	-0.00234
1.63	3.79	241.04	-3.51	2.86	3.790	0.241	6.36	-0.00351
1.64	3.35	255.18	-2.25	2.93	3.350	0.255	7.62	-0.00225
1.65	3.44	253.27	-2.16	2.93	3.440	0.253	7.36	-0.00216
1.66	3.34	253.27	-2.34	2.93	3.340	0.253	7.58	-0.00234
1.67	3.43	251.9	-2.07	3.01	3.430	0.252	7.34	-0.00207
1.68	3.35	251.27	-2.16	3.01	3.350	0.251	7.50	-0.00216
1.69	3.43	247.32	-1.71	2.99	3.430	0.247	7.21	-0.00171
1.7	3.78	234.67	-2.16	2.99	3.780	0.235	6.21	-0.00216
1.71	3.4	222.95	-1.8	3.07	3.400	0.223	6.56	-0.0018

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.72	3.6	207.1	-1.53	3.07	3.600	0.207	5.75	-0.00153
1.73	3.71	189.55	-1.53	3.07	3.710	0.190	5.11	-0.00153
1.74	3.84	175.63	-1.71	3.14	3.840	0.176	4.57	-0.00171
1.75	3.74	167.99	-2.25	3.14	3.740	0.168	4.49	-0.00225
1.76	3.76	160.47	-1.98	3.22	3.760	0.160	4.27	-0.00198
1.77	3.84	156.97	-2.88	3.22	3.840	0.157	4.09	-0.00288
1.78	3.69	158.91	-1.98	3.29	3.690	0.159	4.31	-0.00198
1.79	3.77	157.45	-1.89	3.29	3.770	0.157	4.18	-0.00189
1.8	3.7	155.95	-2.07	3.29	3.700	0.156	4.21	-0.00207
1.81	3.57	155.54	-1.98	3.37	3.570	0.156	4.36	-0.00198
1.82	3.69	160.66	-1.62	3.37	3.690	0.161	4.35	-0.00162
1.83	3.58	172.54	-1.98	3.37	3.580	0.173	4.82	-0.00198
1.84	3.28	187.41	-2.16	3.44	3.280	0.187	5.71	-0.00216
1.85	3.24	195.38	-1.71	3.44	3.240	0.195	6.03	-0.00171
1.86	3.37	195.79	-1.62	3.44	3.370	0.196	5.81	-0.00162
1.87	3.27	197.48	-1.71	3.43	3.270	0.197	6.04	-0.00171
1.88	3	200.76	-1.98	3.51	3.000	0.201	6.69	-0.00198
1.89	2.73	200.57	-2.25	3.51	2.730	0.201	7.35	-0.00225
1.9	2.73	195.85	-1.98	3.51	2.730	0.196	7.17	-0.00198
1.91	2.95	183.69	-1.98	3.58	2.950	0.184	6.23	-0.00198
1.92	2.95	183.69	-1.98	3.58	2.950	0.184	6.23	-0.00198
1.93	2.95	183.69	-1.98	3.58	2.950	0.184	6.23	-0.00198
1.94	2.95	183.69	-1.98	3.58	2.950	0.184	6.23	-0.00198
1.95	2.52	170.92	-1.26	3.6	2.520	0.171	6.78	-0.00126
1.96	2.44	167.83	-0.99	3.58	2.440	0.168	6.88	-0.00099
1.97	2.44	165.63	-0.99	3.58	2.440	0.166	6.79	-0.00099
1.98	2.57	161.68	-0.99	3.58	2.570	0.162	6.29	-0.00099
1.99	2.85	160.31	-0.9	3.58	2.850	0.160	5.62	-0.0009
2	2.93	155.47	-1.08	3.66	2.930	0.155	5.31	-0.00108
2.01	2.68	146.52	-1.35	3.66	2.680	0.147	5.47	-0.00135
2.02	2.59	142.16	-1.35	3.66	2.590	0.142	5.49	-0.00135
2.03	2.38	154.17	-1.17	3.66	2.380	0.154	6.48	-0.00117
2.04	2.32	155.89	-1.26	3.66	2.320	0.156	6.72	-0.00126
2.05	2.34	152.54	-1.08	3.74	2.340	0.153	6.52	-0.00108
2.06	2.45	147.7	-1.08	3.73	2.450	0.148	6.03	-0.00108
2.07	2.46	140.47	-1.08	3.73	2.460	0.140	5.71	-0.00108
2.08	2.34	136.94	-0.9	3.73	2.340	0.137	5.85	-0.0009
2.09	2.34	136.94	-0.9	3.73	2.340	0.137	5.85	-0.0009
2.1	2.34	133.69	-0.81	3.73	2.340	0.134	5.71	-0.00081
2.11	2.34	121.65	-0.99	3.73	2.340	0.122	5.20	-0.00099
2.12	2.33	122.19	-0.9	3.73	2.330	0.122	5.24	-0.0009
2.13	2.29	124.36	-1.17	3.73	2.290	0.124	5.43	-0.00117
2.14	2.05	124.84	-1.17	3.73	2.050	0.125	6.09	-0.00117
2.15	2.1	118.95	-1.08	3.73	2.100	0.119	5.66	-0.00108
2.16	2.01	118.59	-1.08	3.73	2.010	0.119	5.90	-0.00108
2.17	2.17	116.84	-0.9	3.73	2.170	0.117	5.38	-0.0009
2.18	2.39	113.98	-1.08	3.73	2.390	0.114	4.77	-0.00108
2.19	2.44	113.63	-0.99	3.73	2.440	0.114	4.66	-0.00099
2.2	2.35	117.29	-1.26	3.73	2.350	0.117	4.99	-0.00126
2.21	2.09	120.25	-1.62	3.74	2.090	0.120	5.75	-0.00162
2.22	2.08	119.87	-4.05	3.74	2.080	0.120	5.76	-0.00405
2.23	1.84	121.3	-1.71	3.74	1.840	0.121	6.59	-0.00171
2.24	2.04	114.52	0	3.74	2.040	0.115	5.61	0
2.25	1.94	122.38	0.45	3.74	1.940	0.122	6.31	0.00045
2.26	1.87	131.56	0.27	3.74	1.870	0.132	7.04	0.00027
2.27	1.78	138.56	0.18	3.74	1.780	0.139	7.78	0.00018
2.28	1.89	139.9	0	3.74	1.890	0.140	7.40	0

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.29	1.87	142.86	0.18	3.74	1.870	0.143	7.64	0.00018
2.3	1.88	139.23	-0.54	3.74	1.880	0.139	7.41	-0.00054
2.31	1.54	137.51	-0.18	3.82	1.540	0.138	8.93	-0.00018
2.32	1.39	139.26	-0.45	3.75	1.390	0.139	10.02	-0.00045
2.33	1.36	137.32	-0.36	3.82	1.360	0.137	10.10	-0.00036
2.34	1.46	136.78	-0.36	3.82	1.460	0.137	9.37	-0.00036
2.35	1.41	137.22	-0.27	3.82	1.410	0.137	9.73	-0.00027
2.36	1.48	136.62	-0.18	3.82	1.480	0.137	9.23	-0.00018
2.37	1.59	132.35	-0.81	3.82	1.590	0.132	8.32	-0.00081
2.38	1.37	134.42	-0.45	3.82	1.370	0.134	9.81	-0.00045
2.39	1.56	134.49	-0.27	3.84	1.560	0.134	8.62	-0.00027
2.4	1.16	142.8	-0.36	3.82	1.160	0.143	12.31	-0.00036
2.41	0.91	140.6	-0.54	3.82	0.910	0.141	15.45	-0.00054
2.42	0.93	134.74	-0.72	3.82	0.930	0.135	14.49	-0.00072
2.43	0.76	130.63	-2.52	3.84	0.760	0.131	17.19	-0.00252
2.44	0.86	128.05	-1.8	3.84	0.860	0.128	14.89	-0.0018
2.45	0.83	120.41	0.09	3.84	0.830	0.120	14.51	0.00009
2.46	0.85	112.61	0.09	3.84	0.850	0.113	13.25	0.00009
2.47	1.03	106.14	0.09	3.84	1.030	0.106	10.30	0.00009
2.48	1.26	100.82	0.27	3.84	1.260	0.101	8.00	0.00027
2.49	1.57	83.15	0.27	3.76	1.570	0.083	5.30	0.00027
2.5	1.53	75.7	-0.09	3.76	1.530	0.076	4.95	-0.00009
2.51	1.59	71.37	0.18	3.76	1.590	0.071	4.49	0.00018
2.52	1.9	65.13	0.27	3.76	1.900	0.065	3.43	0.00027
2.53	2.26	63.28	0.63	3.76	2.260	0.063	2.80	0.00063
2.54	2.1	68.72	0.45	3.76	2.100	0.069	3.27	0.00045
2.55	1.9	68.95	0.36	3.76	1.900	0.069	3.63	0.00036
2.56	1.77	66.81	-0.09	3.76	1.770	0.067	3.77	-0.00009
2.57	1.75	69.68	0.09	3.76	1.750	0.070	3.98	0.00009
2.58	1.73	77.32	0.09	3.76	1.730	0.077	4.47	0.00009
2.59	1.63	84.81	0.09	3.76	1.630	0.085	5.20	0.00009
2.6	1.53	89.17	0	3.76	1.530	0.089	5.83	0
2.61	1.55	97	-0.18	3.76	1.550	0.097	6.26	-0.00018
2.62	1.45	97.42	-0.27	3.68	1.450	0.097	6.72	-0.00027
2.63	1.44	98.75	-0.09	3.68	1.440	0.099	6.86	-0.00009
2.64	1.34	102.1	-0.27	3.68	1.340	0.102	7.62	-0.00027
2.65	1.18	103.75	-0.45	3.68	1.180	0.104	8.79	-0.00045
2.66	1.17	103.88	-0.45	3.68	1.170	0.104	8.88	-0.00045
2.67	1.17	98.88	-0.45	3.68	1.170	0.099	8.45	-0.00045
2.68	1.25	93.18	-0.45	3.61	1.250	0.093	7.45	-0.00045
2.69	1.33	90.73	-0.45	3.61	1.330	0.091	6.82	-0.00045
2.7	1.23	87.19	-0.54	3.61	1.230	0.087	7.09	-0.00054
2.71	1.12	84.84	-0.72	3.61	1.120	0.085	7.58	-0.00072
2.72	1.05	83.44	-0.72	3.62	1.050	0.083	7.95	-0.00072
2.73	1.09	79.33	-0.99	3.62	1.090	0.079	7.28	-0.00099
2.74	1.22	71.49	-2.79	3.62	1.220	0.071	5.86	-0.00279
2.75	1.3	63.34	-0.9	3.62	1.300	0.063	4.87	-0.0009
2.76	1.36	62.32	-0.9	3.62	1.360	0.062	4.58	-0.0009
2.77	1.25	61.34	-0.54	3.64	1.250	0.061	4.91	-0.00054
2.78	1.42	59.17	0.09	3.64	1.420	0.059	4.17	0.00009
2.79	1.5	56.85	0.54	3.64	1.500	0.057	3.79	0.00054
2.8	1.62	56.05	0.54	3.64	1.620	0.056	3.46	0.00054
2.81	1.59	58.92	0.54	3.64	1.590	0.059	3.71	0.00054
2.82	1.6	63.66	0.54	3.64	1.600	0.064	3.98	0.00054
2.83	1.6	65.28	0.18	3.64	1.600	0.065	4.08	0.00018
2.84	1.6	67.13	-0.09	3.64	1.600	0.067	4.20	-0.00009
2.85	1.52	71.24	-0.36	3.66	1.520	0.071	4.69	-0.00036

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.86	1.37	72.64	-0.18	3.58	1.370	0.073	5.30	-0.00018
2.87	1.32	78.44	0.09	3.58	1.320	0.078	5.94	0.00009
2.88	1.38	84.33	0.18	3.58	1.380	0.084	6.11	0.00018
2.89	1.38	85.54	0.36	3.58	1.380	0.086	6.20	0.00036
2.9	1.59	88.15	0.72	3.58	1.590	0.088	5.54	0.00072
2.91	1.73	81.62	0.63	3.64	1.730	0.082	4.72	0.00063
2.92	1.73	81.62	0.63	3.64	1.730	0.082	4.72	0.00063
2.93	1.73	81.62	0.63	3.64	1.730	0.082	4.72	0.00063
2.94	1.73	81.62	0.63	3.64	1.730	0.082	4.72	0.00063
2.95	1.69	79.52	-0.99	3.53	1.690	0.080	4.71	-0.00099
2.96	1.69	76.75	-1.8	3.61	1.690	0.077	4.54	-0.0018
2.97	1.46	74.84	-1.08	3.6	1.460	0.075	5.13	-0.00108
2.98	1.4	68.66	-0.54	3.6	1.400	0.069	4.90	-0.00054
2.99	1.57	67.23	0.36	3.6	1.570	0.067	4.28	0.00036
3	1.51	69.97	0.72	3.67	1.510	0.070	4.63	0.00072
3.01	1.29	73.56	0.18	3.58	1.290	0.074	5.70	0.00018
3.02	1.14	78.66	0.36	3.58	1.140	0.079	6.90	0.00036
3.03	1.23	81.78	0.18	3.58	1.230	0.082	6.65	0.00018
3.04	1.39	83.28	0.36	3.58	1.390	0.083	5.99	0.00036
3.05	1.7	84.33	-0.27	3.58	1.700	0.084	4.96	-0.00027
3.06	1.63	86.08	-0.63	3.65	1.630	0.086	5.28	-0.00063
3.07	1.87	83.66	0.18	3.57	1.870	0.084	4.47	0.00018
3.08	1.75	82.13	0.36	3.56	1.750	0.082	4.69	0.00036
3.09	1.82	84.04	0.9	3.56	1.820	0.084	4.62	0.0009
3.1	1.69	86.27	0.9	3.56	1.690	0.086	5.10	0.0009
3.11	1.75	92.58	1.35	3.56	1.750	0.093	5.29	0.00135
3.12	1.82	94.71	1.08	3.56	1.820	0.095	5.20	0.00108
3.13	1.86	96.84	1.08	3.63	1.860	0.097	5.21	0.00108
3.14	1.8	103.63	1.08	3.63	1.800	0.104	5.76	0.00108
3.15	1.77	112.03	1.8	3.63	1.770	0.112	6.33	0.0018
3.16	1.89	116.14	0.36	3.63	1.890	0.116	6.14	0.00036
3.17	1.85	123.75	0.54	3.63	1.850	0.124	6.69	0.00054
3.18	1.9	130.51	1.53	3.55	1.900	0.131	6.87	0.00153
3.19	1.86	136.46	2.79	3.55	1.860	0.136	7.34	0.00279
3.2	1.8	139.33	1.44	3.55	1.800	0.139	7.74	0.00144
3.21	1.86	141.36	1.98	3.55	1.860	0.141	7.60	0.00198
3.22	1.93	142.22	2.97	3.54	1.930	0.142	7.37	0.00297
3.23	2.02	142.86	3.51	3.54	2.020	0.143	7.07	0.00351
3.24	2.05	142.54	3.96	3.54	2.050	0.143	6.95	0.00396
3.25	2.1	141.4	4.6	3.54	2.100	0.141	6.73	0.0046
3.26	2.17	140.51	5.68	3.54	2.170	0.141	6.48	0.00568
3.27	2.19	141.14	9.37	3.54	2.190	0.141	6.44	0.00937
3.28	2.23	143.18	15.77	3.54	2.230	0.143	6.42	0.01577
3.29	2.29	141.49	20.9	3.54	2.290	0.141	6.18	0.0209
3.3	2.3	139.14	21.17	3.54	2.300	0.139	6.05	0.02117
3.31	2.26	139.33	18.83	3.47	2.260	0.139	6.17	0.01883
3.32	2.3	137.22	21.54	3.47	2.300	0.137	5.97	0.02154
3.33	2.27	135.76	21.81	3.54	2.270	0.136	5.98	0.02181
3.34	2.25	134.65	22.44	3.47	2.250	0.135	5.98	0.02244
3.35	2.22	132.83	25.86	3.47	2.220	0.133	5.98	0.02586
3.36	2.18	132.07	27.75	3.47	2.180	0.132	6.06	0.02775
3.37	2.13	129.33	29.01	3.47	2.130	0.129	6.07	0.02901
3.38	2.12	125.57	28.92	3.47	2.120	0.126	5.92	0.02892
3.39	2.1	123.18	29.37	3.39	2.100	0.123	5.87	0.02937
3.4	2.07	121.02	29.01	3.4	2.070	0.121	5.85	0.02901
3.41	2.04	118.31	28.65	3.4	2.040	0.118	5.80	0.02865
3.42	1.99	114.2	28.02	3.4	1.990	0.114	5.74	0.02802

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
3.43	1.96	109.87	27.84	3.4	1.960	0.110	5.61	0.02784
3.44	2.01	109.61	27.57	3.4	2.010	0.110	5.45	0.02757
3.45	2.03	111.88	28.11	3.4	2.030	0.112	5.51	0.02811
3.46	1.98	115.6	27.75	3.4	1.980	0.116	5.84	0.02775
3.47	1.94	115.95	26.94	3.4	1.940	0.116	5.98	0.02694
3.48	1.95	114.17	26.94	3.4	1.950	0.114	5.85	0.02694
3.49	1.94	112.07	27.39	3.33	1.940	0.112	5.78	0.02739
3.5	1.89	110.54	26.49	3.4	1.890	0.111	5.85	0.02649
3.51	1.86	109.68	26.04	3.33	1.860	0.110	5.90	0.02604
3.52	1.83	108.98	26.76	3.34	1.830	0.109	5.96	0.02676
3.53	1.8	108.02	27.12	3.34	1.800	0.108	6.00	0.02712
3.54	1.75	107.54	27.21	3.34	1.750	0.108	6.15	0.02721
3.55	1.71	107.45	28.2	3.34	1.710	0.107	6.28	0.0282
3.56	1.7	106.3	28.38	3.34	1.700	0.106	6.25	0.02838
3.57	1.72	105.09	29.64	3.34	1.720	0.105	6.11	0.02964
3.58	1.75	103.88	31.45	3.34	1.750	0.104	5.94	0.03145
3.59	1.78	102.1	30.01	3.34	1.780	0.102	5.74	0.03001
3.6	1.78	101.37	29.55	3.34	1.780	0.101	5.69	0.02955
3.61	1.77	101.65	31.27	3.34	1.770	0.102	5.74	0.03127
3.62	1.75	101.62	30.1	3.34	1.750	0.102	5.81	0.0301
3.63	1.73	100.76	29.74	3.35	1.730	0.101	5.82	0.02974
3.64	1.75	99.71	29.46	3.35	1.750	0.100	5.70	0.02946
3.65	1.76	100	29.46	3.27	1.760	0.100	5.68	0.02946
3.66	1.75	100.73	29.83	3.27	1.750	0.101	5.76	0.02983
3.67	1.76	101.97	29.64	3.27	1.760	0.102	5.79	0.02964
3.68	1.74	103.75	30.82	3.27	1.740	0.104	5.96	0.03082
3.69	1.74	105.03	29.92	3.27	1.740	0.105	6.04	0.02992
3.7	1.73	104.93	28.74	3.27	1.730	0.105	6.07	0.02874
3.71	1.72	103.66	33.07	3.19	1.720	0.104	6.03	0.03307
3.72	1.72	103.09	31.54	3.19	1.720	0.103	5.99	0.03154
3.73	1.76	103.37	29.37	3.19	1.760	0.103	5.87	0.02937
3.74	1.74	104.1	30.82	3.19	1.740	0.104	5.98	0.03082
3.75	1.69	104.14	32.8	3.19	1.690	0.104	6.16	0.0328
3.76	1.59	103.56	28.02	3.12	1.590	0.104	6.51	0.02802
3.77	1.55	103.53	27.48	3.13	1.550	0.104	6.68	0.02748
3.78	1.58	102.8	28.56	3.13	1.580	0.103	6.51	0.02856
3.79	1.57	102.07	30.55	3.13	1.570	0.102	6.50	0.03055
3.8	1.54	100.86	31.36	3.13	1.540	0.101	6.55	0.03136
3.81	1.51	100.28	32.17	3.13	1.510	0.100	6.64	0.03217
3.82	1.53	100.7	35.23	3.05	1.530	0.101	6.58	0.03523
3.83	1.55	100.47	37.3	3.05	1.550	0.100	6.48	0.0373
3.84	1.56	100.38	38.39	3.05	1.560	0.100	6.43	0.03839
3.85	1.5	101.02	39.2	3.05	1.500	0.101	6.73	0.0392
3.86	1.45	101.59	38.75	3.05	1.450	0.102	7.01	0.03875
3.87	1.45	101.59	38.75	3.05	1.450	0.102	7.01	0.03875
3.88	1.41	101.49	38.48	3.05	1.410	0.101	7.20	0.03848
3.89	1.41	100.35	38.21	3.05	1.410	0.100	7.12	0.03821
3.9	1.42	98.47	37.84	3.05	1.420	0.098	6.93	0.03784
3.91	1.43	95.86	37.48	3.05	1.430	0.096	6.70	0.03748
3.92	1.39	94.81	36.94	3.05	1.390	0.095	6.82	0.03694
3.93	1.39	94.81	36.94	3.05	1.390	0.095	6.82	0.03694
3.94	1.39	94.81	36.94	3.05	1.390	0.095	6.82	0.03694
3.95	1.29	94.74	20.72	2.98	1.290	0.095	7.34	0.02072
3.96	1.29	91.75	18.47	2.98	1.290	0.092	7.11	0.01847
3.97	1.29	87.67	17.75	2.98	1.290	0.088	6.80	0.01775
3.98	1.31	84.93	17.84	2.98	1.310	0.085	6.48	0.01784
3.99	1.35	82.83	18.65	2.98	1.350	0.083	6.14	0.01865

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4	1.4	81.27	23.34	2.9	1.400	0.081	5.81	0.02334
4.01	1.45	81.4	25.68	2.89	1.450	0.081	5.61	0.02568
4.02	1.5	82.64	26.85	2.89	1.500	0.083	5.51	0.02685
4.03	1.56	83.28	28.47	2.89	1.560	0.083	5.34	0.02847
4.04	1.63	84.84	30.73	2.89	1.630	0.085	5.20	0.03073
4.05	1.7	85.95	32.17	2.89	1.700	0.086	5.06	0.03217
4.06	1.74	85.83	32.98	2.89	1.740	0.086	4.93	0.03298
4.07	1.8	85.32	31.72	2.81	1.800	0.085	4.74	0.03172
4.08	1.86	85.83	31.72	2.81	1.860	0.086	4.61	0.03172
4.09	1.9	87.39	31.18	2.8	1.900	0.087	4.60	0.03118
4.1	1.94	89.14	31.45	2.8	1.940	0.089	4.59	0.03145
4.11	1.96	91.08	33.61	2.8	1.960	0.091	4.65	0.03361
4.12	1.95	94.58	33.34	2.8	1.950	0.095	4.85	0.03334
4.13	1.92	98.5	33.34	2.8	1.920	0.099	5.13	0.03334
4.14	1.92	98.5	33.34	2.8	1.920	0.099	5.13	0.03334
4.15	1.9	100.12	33.34	2.8	1.900	0.100	5.27	0.03334
4.16	1.87	100.95	32.62	2.8	1.870	0.101	5.40	0.03262
4.17	1.82	101.88	33.34	2.8	1.820	0.102	5.60	0.03334
4.18	1.77	103.02	33.88	2.88	1.770	0.103	5.82	0.03388
4.19	1.72	104.58	33.79	2.88	1.720	0.105	6.08	0.03379
4.2	1.65	106.59	33.52	2.8	1.650	0.107	6.46	0.03352
4.21	1.6	108.15	33.34	2.88	1.600	0.108	6.76	0.03334
4.22	1.54	109.23	34.33	2.8	1.540	0.109	7.09	0.03433
4.23	1.48	110.54	33.97	2.8	1.480	0.111	7.47	0.03397
4.24	1.41	111.11	34.42	2.79	1.410	0.111	7.88	0.03442
4.25	1.39	110.19	35.05	2.79	1.390	0.110	7.93	0.03505
4.26	1.4	106.88	35.23	2.79	1.400	0.107	7.63	0.03523
4.27	1.42	103.88	35.59	2.79	1.420	0.104	7.32	0.03559
4.28	1.44	101.75	36.58	2.79	1.440	0.102	7.07	0.03658
4.29	1.42	100.38	36.49	2.79	1.420	0.100	7.07	0.03649
4.3	1.39	99.74	36.49	2.79	1.390	0.100	7.18	0.03649
4.31	1.36	97.48	36.4	2.79	1.360	0.097	7.17	0.0364
4.32	1.33	95.03	36.04	2.79	1.330	0.095	7.15	0.03604
4.33	1.33	92.32	35.86	2.79	1.330	0.092	6.94	0.03586
4.34	1.34	89.55	35.95	2.79	1.340	0.090	6.68	0.03595
4.35	1.34	87.16	35.68	2.79	1.340	0.087	6.50	0.03568
4.36	1.3	85.16	35.59	2.79	1.300	0.085	6.55	0.03559
4.37	1.24	83.53	35.23	2.79	1.240	0.084	6.74	0.03523
4.38	1.15	82.19	34.69	2.79	1.150	0.082	7.15	0.03469
4.39	1.1	80.19	34.69	2.72	1.100	0.080	7.29	0.03469
4.4	1.06	78.09	34.33	2.72	1.060	0.078	7.37	0.03433
4.41	1	76.02	33.88	2.72	1.000	0.076	7.60	0.03388
4.42	0.97	73.88	33.52	2.72	0.970	0.074	7.62	0.03352
4.43	0.93	72.1	33.25	2.72	0.930	0.072	7.75	0.03325
4.44	0.9	70.7	33.16	2.72	0.900	0.071	7.86	0.03316
4.45	0.88	69.87	32.98	2.72	0.880	0.070	7.94	0.03298
4.46	0.85	68.56	32.8	2.72	0.850	0.069	8.07	0.0328
4.47	0.82	66.46	32.62	2.72	0.820	0.066	8.10	0.03262
4.48	0.8	64.58	32.53	2.73	0.800	0.065	8.07	0.03253
4.49	0.79	62.58	33.07	2.72	0.790	0.063	7.92	0.03307
4.5	0.77	60.76	33.34	2.73	0.770	0.061	7.89	0.03334
4.51	0.76	59.07	36.85	2.73	0.760	0.059	7.77	0.03685
4.52	0.75	56.85	37.48	2.73	0.750	0.057	7.58	0.03748
4.53	0.77	55.57	39.02	2.73	0.770	0.056	7.22	0.03902
4.54	0.79	53.98	39.2	2.73	0.790	0.054	6.83	0.0392
4.55	0.82	52.67	42.17	2.73	0.820	0.053	6.42	0.04217
4.56	0.85	51.59	42.53	2.72	0.850	0.052	6.07	0.04253

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4.57	0.85	51.27	42.26	2.65	0.850	0.051	6.03	0.04226
4.58	0.84	51.02	43.61	2.65	0.840	0.051	6.07	0.04361
4.59	0.82	50.38	43.25	2.65	0.820	0.050	6.14	0.04325
4.6	0.8	49.81	42.08	2.65	0.800	0.050	6.23	0.04208
4.61	0.79	49.74	41.99	2.65	0.790	0.050	6.30	0.04199
4.62	0.77	49.87	40.91	2.65	0.770	0.050	6.48	0.04091
4.63	0.76	50.03	40.91	2.65	0.760	0.050	6.58	0.04091
4.64	0.76	50.25	40.91	2.65	0.760	0.050	6.61	0.04091
4.65	0.75	50.51	41.54	2.65	0.750	0.051	6.73	0.04154
4.66	0.73	51.14	41.45	2.65	0.730	0.051	7.01	0.04145
4.67	0.71	51.72	42.8	2.65	0.710	0.052	7.28	0.0428
4.68	0.7	51.59	49.47	2.65	0.700	0.052	7.37	0.04947
4.69	0.67	51.24	48.66	2.65	0.670	0.051	7.65	0.04866
4.7	0.65	50.95	48.3	2.65	0.650	0.051	7.84	0.0483
4.71	0.64	50.32	47.94	2.65	0.640	0.050	7.86	0.04794
4.72	0.64	49.81	48.57	2.65	0.640	0.050	7.78	0.04857
4.73	0.62	49.3	53.34	2.65	0.620	0.049	7.95	0.05334
4.74	0.61	49.04	53.16	2.65	0.610	0.049	8.04	0.05316
4.75	0.61	48.41	53.79	2.65	0.610	0.048	7.94	0.05379
4.76	0.61	47.83	53.97	2.57	0.610	0.048	7.84	0.05397
4.77	0.59	47.32	54.42	2.57	0.590	0.047	8.02	0.05442
4.78	0.58	46.4	54.6	2.57	0.580	0.046	8.00	0.0546
4.79	0.57	45.54	54.69	2.57	0.570	0.046	7.99	0.05469
4.8	0.57	44.52	54.42	2.57	0.570	0.045	7.81	0.05442
4.81	0.58	43.44	54.33	2.57	0.580	0.043	7.49	0.05433
4.82	0.58	42.45	54.33	2.57	0.580	0.042	7.32	0.05433
4.83	0.57	41.65	54.24	2.57	0.570	0.042	7.31	0.05424
4.84	0.58	40.76	54.42	2.57	0.580	0.041	7.03	0.05442
4.85	0.58	39.97	54.69	2.57	0.580	0.040	6.89	0.05469
4.86	0.58	39.17	54.87	2.57	0.580	0.039	6.75	0.05487
4.87	0.59	38.12	56.86	2.57	0.590	0.038	6.46	0.05686
4.88	0.61	37.16	59.11	2.57	0.610	0.037	6.09	0.05911
4.89	0.61	37.16	59.11	2.57	0.610	0.037	6.09	0.05911
4.9	0.61	37.16	59.11	2.57	0.610	0.037	6.09	0.05911
4.91	0.69	35.54	81.73	2.59	0.690	0.036	5.15	0.08173
4.92	0.69	35.25	87.22	2.59	0.690	0.035	5.11	0.08722
4.93	0.69	35.06	92.99	2.51	0.690	0.035	5.08	0.09299
4.94	0.69	34.94	99.84	2.51	0.690	0.035	5.06	0.09984
4.95	0.69	35.44	101.46	2.51	0.690	0.035	5.14	0.10146
4.96	0.67	35.7	102	2.51	0.670	0.036	5.33	0.102
4.97	0.66	35.67	102	2.51	0.660	0.036	5.40	0.102
4.98	0.65	35.29	101.73	2.51	0.650	0.035	5.43	0.10173
4.99	0.65	35.19	101.73	2.51	0.650	0.035	5.41	0.10173
5	0.64	34.71	101.73	2.51	0.640	0.035	5.42	0.10173
5.01	0.63	34.33	101.37	2.51	0.630	0.034	5.45	0.10137
5.02	0.63	34.14	101.1	2.53	0.630	0.034	5.42	0.1011
5.03	0.63	34.08	100.83	2.53	0.630	0.034	5.41	0.10083
5.04	0.63	34.43	100.74	2.53	0.630	0.034	5.47	0.10074
5.05	0.62	35.32	100.56	2.53	0.620	0.035	5.70	0.10056
5.06	0.62	35.7	100.56	2.53	0.620	0.036	5.76	0.10056
5.07	0.63	35.95	100.92	2.53	0.630	0.036	5.71	0.10092
5.08	0.64	36.05	101.46	2.53	0.640	0.036	5.63	0.10146
5.09	0.65	36.15	101.73	2.53	0.650	0.036	5.56	0.10173
5.1	0.66	36.05	102.18	2.53	0.660	0.036	5.46	0.10218
5.11	0.69	35.89	102.36	2.53	0.690	0.036	5.20	0.10236
5.12	0.73	36.37	102.63	2.53	0.730	0.036	4.98	0.10263
5.13	0.74	36.75	102.45	2.45	0.740	0.037	4.97	0.10245

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.14	0.74	37.29	102.27	2.47	0.740	0.037	5.04	0.10227
5.15	0.74	37.8	102.72	2.54	0.740	0.038	5.11	0.10272
5.16	0.74	37.8	102.72	2.54	0.740	0.038	5.11	0.10272
5.17	0.72	37.96	102.27	2.54	0.720	0.038	5.27	0.10227
5.18	0.69	37.96	101.55	2.47	0.690	0.038	5.50	0.10155
5.19	0.67	37.93	100.83	2.54	0.670	0.038	5.66	0.10083
5.2	0.66	38.12	100.29	2.54	0.660	0.038	5.78	0.10029
5.21	0.64	38.57	100.02	2.54	0.640	0.039	6.03	0.10002
5.22	0.62	38.98	100.02	2.47	0.620	0.039	6.29	0.10002
5.23	0.6	39.43	99.84	2.47	0.600	0.039	6.57	0.09984
5.24	0.59	39.71	102.45	2.47	0.590	0.040	6.73	0.10245
5.25	0.59	39.62	112.72	2.47	0.590	0.040	6.72	0.11272
5.26	0.61	38.85	126.15	2.47	0.610	0.039	6.37	0.12615
5.27	0.62	38.02	126.24	2.47	0.620	0.038	6.13	0.12624
5.28	0.62	37.04	126.42	2.47	0.620	0.037	5.97	0.12642
5.29	0.61	36.4	126.42	2.47	0.610	0.036	5.97	0.12642
5.3	0.6	35.38	126.51	2.47	0.600	0.035	5.90	0.12651
5.31	0.58	34.55	125.52	2.47	0.580	0.035	5.96	0.12552
5.32	0.57	33.63	124.62	2.47	0.570	0.034	5.90	0.12462
5.33	0.56	32.42	123.9	2.47	0.560	0.032	5.79	0.1239
5.34	0.55	31.72	123.54	2.47	0.550	0.032	5.77	0.12354
5.35	0.54	31.46	123.27	2.47	0.540	0.031	5.83	0.12327
5.36	0.53	31.27	122.91	2.47	0.530	0.031	5.90	0.12291
5.37	0.52	31.08	123.18	2.47	0.520	0.031	5.98	0.12318
5.38	0.52	31.05	123.45	2.47	0.520	0.031	5.97	0.12345
5.39	0.51	31.46	123.63	2.47	0.510	0.031	6.17	0.12363
5.4	0.52	32.55	123.99	2.47	0.520	0.033	6.26	0.12399
5.41	0.54	33.57	124.35	2.47	0.540	0.034	6.22	0.12435
5.42	0.56	34.14	124.26	2.47	0.560	0.034	6.10	0.12426
5.43	0.58	34.39	124.26	2.47	0.580	0.034	5.93	0.12426
5.44	0.59	34.36	124.35	2.4	0.590	0.034	5.82	0.12435
5.45	0.59	34.36	124.08	2.4	0.590	0.034	5.82	0.12408
5.46	0.59	34.23	123.81	2.4	0.590	0.034	5.80	0.12381
5.47	0.6	33.88	123.45	2.4	0.600	0.034	5.65	0.12345
5.48	0.6	33.5	123.09	2.4	0.600	0.034	5.58	0.12309
5.49	0.6	33.57	122.63	2.4	0.600	0.034	5.60	0.12263
5.5	0.59	33.79	122.27	2.4	0.590	0.034	5.73	0.12227
5.51	0.57	34.62	122.09	2.4	0.570	0.035	6.07	0.12209
5.52	0.56	34.74	121.64	2.4	0.560	0.035	6.20	0.12164
5.53	0.55	34.84	121.28	2.4	0.550	0.035	6.33	0.12128
5.54	0.55	34.39	120.83	2.4	0.550	0.034	6.25	0.12083
5.55	0.55	34.14	120.38	2.4	0.550	0.034	6.21	0.12038
5.56	0.54	34.36	120.02	2.4	0.540	0.034	6.36	0.12002
5.57	0.53	35.19	119.57	2.47	0.530	0.035	6.64	0.11957
5.58	0.52	35.99	119.39	2.47	0.520	0.036	6.92	0.11939
5.59	0.51	36.05	118.85	2.4	0.510	0.036	7.07	0.11885
5.6	0.51	35.95	118.49	2.47	0.510	0.036	7.05	0.11849
5.61	0.51	35.38	118.4	2.47	0.510	0.035	6.94	0.1184
5.62	0.5	34.65	119.03	2.47	0.500	0.035	6.93	0.11903
5.63	0.51	32.93	119.03	2.47	0.510	0.033	6.46	0.11903
5.64	0.52	31.81	118.94	2.47	0.520	0.032	6.12	0.11894
5.65	0.53	31.08	118.94	2.47	0.530	0.031	5.86	0.11894
5.66	0.54	30.95	118.94	2.47	0.540	0.031	5.73	0.11894
5.67	0.55	30.48	119.03	2.47	0.550	0.030	5.54	0.11903
5.68	0.56	29.94	119.21	2.47	0.560	0.030	5.35	0.11921
5.69	0.58	29.23	119.66	2.47	0.580	0.029	5.04	0.11966
5.7	0.59	28.44	119.93	2.49	0.590	0.028	4.82	0.11993

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.71	0.59	28.44	119.93	2.49	0.590	0.028	4.82	0.11993
5.72	0.61	27.83	120.11	2.49	0.610	0.028	4.56	0.12011
5.73	0.63	27.39	120.11	2.49	0.630	0.027	4.35	0.12011
5.74	0.62	27.39	119.93	2.49	0.620	0.027	4.42	0.11993
5.75	0.61	27.67	119.66	2.49	0.610	0.028	4.54	0.11966
5.76	0.59	27.93	119.21	2.49	0.590	0.028	4.73	0.11921
5.77	0.58	28.31	119.3	2.49	0.580	0.028	4.88	0.1193
5.78	0.58	28.63	118.94	2.47	0.580	0.029	4.94	0.11894
5.79	0.57	28.76	118.76	2.4	0.570	0.029	5.05	0.11876
5.8	0.56	28.92	118.76	2.4	0.560	0.029	5.16	0.11876
5.81	0.56	29.08	118.13	2.4	0.560	0.029	5.19	0.11813
5.82	0.58	28.66	118.76	2.4	0.580	0.029	4.94	0.11876
5.83	0.6	28.5	119.57	2.4	0.600	0.029	4.75	0.11957
5.84	0.61	28.53	119.75	2.4	0.610	0.029	4.68	0.11975
5.85	0.62	28.79	119.66	2.4	0.620	0.029	4.64	0.11966
5.86	0.62	29.46	120.11	2.4	0.620	0.029	4.75	0.12011
5.87	0.61	29.43	119.84	2.4	0.610	0.029	4.82	0.11984
5.88	0.59	29.11	119.3	2.4	0.590	0.029	4.93	0.1193
5.89	0.57	28.92	118.94	2.42	0.570	0.029	5.07	0.11894
5.9	0.56	28.57	118.58	2.4	0.560	0.029	5.10	0.11858
5.91	0.54	28.47	118.22	2.42	0.540	0.028	5.27	0.11822
5.92	0.54	28.47	118.22	2.42	0.540	0.028	5.27	0.11822
5.93	0.54	28.47	118.22	2.42	0.540	0.028	5.27	0.11822
5.94	0.66	24.14	111.28	2.42	0.660	0.024	3.66	0.11128
5.95	0.64	23.92	111.64	2.42	0.640	0.024	3.74	0.11164
5.96	0.62	23.25	112.18	2.42	0.620	0.023	3.75	0.11218
5.97	0.61	22.55	112.63	2.42	0.610	0.023	3.70	0.11263
5.98	0.59	21.97	115.16	2.42	0.590	0.022	3.72	0.11516
5.99	0.59	21.97	115.16	2.42	0.590	0.022	3.72	0.11516
6	0.57	21.31	118.04	2.42	0.570	0.021	3.74	0.11804
6.01	0.58	20.25	123.63	2.42	0.580	0.020	3.49	0.12363
6.02	0.59	19.08	135.7	2.42	0.590	0.019	3.23	0.1357
6.03	0.61	18.18	149.13	2.42	0.610	0.018	2.98	0.14913
6.04	0.64	17.58	173.09	2.42	0.640	0.018	2.75	0.17309
6.05	0.67	16.94	191.48	2.42	0.670	0.017	2.53	0.19148
6.06	0.71	16.37	200.13	2.42	0.710	0.016	2.31	0.20013
6.07	0.76	15.89	203.73	2.42	0.760	0.016	2.09	0.20373
6.08	0.79	15.67	206.43	2.42	0.790	0.016	1.98	0.20643
6.09	0.8	15.51	209.14	2.42	0.800	0.016	1.94	0.20914
6.1	0.8	15.76	209.14	2.42	0.800	0.016	1.97	0.20914
6.11	0.79	16.46	208.42	2.42	0.790	0.016	2.08	0.20842
6.12	0.8	17.04	206.7	2.42	0.800	0.017	2.13	0.2067
6.13	0.8	17.9	205.8	2.42	0.800	0.018	2.24	0.2058
6.14	0.79	19.33	206.25	2.42	0.790	0.019	2.45	0.20625
6.15	0.79	20.73	205.71	2.42	0.790	0.021	2.62	0.20571
6.16	0.79	22.48	204.81	2.42	0.790	0.022	2.85	0.20481
6.17	0.79	24.27	204.36	2.42	0.790	0.024	3.07	0.20436
6.18	0.8	25.67	204	2.42	0.800	0.026	3.21	0.204
6.19	0.8	27.42	204.72	2.42	0.800	0.027	3.43	0.20472
6.2	0.81	29.68	204.99	2.42	0.810	0.030	3.66	0.20499
6.21	0.82	31.78	205.89	2.42	0.820	0.032	3.88	0.20589
6.22	0.82	33.98	206.7	2.42	0.820	0.034	4.14	0.2067
6.23	0.82	36.34	207.79	2.42	0.820	0.036	4.43	0.20779
6.24	0.82	38.85	208.15	2.42	0.820	0.039	4.74	0.20815
6.25	0.82	41.24	207.7	2.42	0.820	0.041	5.03	0.2077
6.26	0.82	42.61	207.24	2.42	0.820	0.043	5.20	0.20724
6.27	0.82	43.57	206.88	2.42	0.820	0.044	5.31	0.20688

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.28	0.81	44.68	206.61	2.42	0.810	0.045	5.52	0.20661
6.29	0.82	45.64	206.34	2.42	0.820	0.046	5.57	0.20634
6.3	0.82	46.05	206.34	2.42	0.820	0.046	5.62	0.20634
6.31	0.82	46.08	206.25	2.42	0.820	0.046	5.62	0.20625
6.32	0.83	45.99	205.98	2.42	0.830	0.046	5.54	0.20598
6.33	0.85	45.95	206.25	2.42	0.850	0.046	5.41	0.20625
6.34	0.85	46.02	206.79	2.42	0.850	0.046	5.41	0.20679
6.35	0.85	45.64	208.06	2.42	0.850	0.046	5.37	0.20806
6.36	0.85	45.03	208.69	2.42	0.850	0.045	5.30	0.20869
6.37	0.86	43.95	208.6	2.42	0.860	0.044	5.11	0.2086
6.38	0.87	43.53	209.05	2.42	0.870	0.044	5.00	0.20905
6.39	0.89	43.25	209.14	2.42	0.890	0.043	4.86	0.20914
6.4	0.89	43.41	209.05	2.42	0.890	0.043	4.88	0.20905
6.41	0.9	43.31	209.32	2.42	0.900	0.043	4.81	0.20932
6.42	0.92	43.02	208.96	2.42	0.920	0.043	4.68	0.20896
6.43	0.92	43.12	208.87	2.42	0.920	0.043	4.69	0.20887
6.44	0.93	43.31	208.87	2.42	0.930	0.043	4.66	0.20887
6.45	0.94	43.12	208.69	2.42	0.940	0.043	4.59	0.20869
6.46	0.96	43.12	208.6	2.42	0.960	0.043	4.49	0.2086
6.47	0.96	43.53	208.51	2.42	0.960	0.044	4.53	0.20851
6.48	0.96	43.98	208.51	2.42	0.960	0.044	4.58	0.20851
6.49	0.97	44.11	208.69	2.42	0.970	0.044	4.55	0.20869
6.5	0.98	43.95	208.78	2.42	0.980	0.044	4.48	0.20878
6.51	0.99	44.14	208.96	2.42	0.990	0.044	4.46	0.20896
6.52	1	44.3	208.78	2.42	1.000	0.044	4.43	0.20878
6.53	1	44.46	208.6	2.42	1.000	0.044	4.45	0.2086
6.54	1	44.87	208.33	2.42	1.000	0.045	4.49	0.20833
6.55	1	44.97	208.6	2.42	1.000	0.045	4.50	0.2086
6.56	1.01	45.35	208.42	2.42	1.010	0.045	4.49	0.20842
6.57	1	45.29	207.88	2.42	1.000	0.045	4.53	0.20788
6.58	1	45.73	207.42	2.42	1.000	0.046	4.57	0.20742
6.59	0.98	45.48	206.79	2.42	0.980	0.045	4.64	0.20679
6.6	0.98	45.64	206.43	2.42	0.980	0.046	4.66	0.20643
6.61	0.98	45.48	206.16	2.42	0.980	0.045	4.64	0.20616
6.62	0.97	46.05	205.53	2.42	0.970	0.046	4.75	0.20553
6.63	0.96	46.56	205.26	2.42	0.960	0.047	4.85	0.20526
6.64	0.94	46.46	204.9	2.42	0.940	0.046	4.94	0.2049
6.65	0.91	46.69	204.54	2.34	0.910	0.047	5.13	0.20454
6.66	0.91	45.86	204.09	2.34	0.910	0.046	5.04	0.20409
6.67	0.92	44.52	203.91	2.42	0.920	0.045	4.84	0.20391
6.68	0.92	43.79	203.46	2.34	0.920	0.044	4.76	0.20346
6.69	0.91	43.95	203.28	2.34	0.910	0.044	4.83	0.20328
6.7	0.92	43.47	203.1	2.34	0.920	0.043	4.73	0.2031
6.71	0.9	42.99	202.56	2.34	0.900	0.043	4.78	0.20256
6.72	0.89	42.61	202.2	2.34	0.890	0.043	4.79	0.2022
6.73	0.87	42.23	201.48	2.34	0.870	0.042	4.85	0.20148
6.74	0.84	42.01	201.48	2.34	0.840	0.042	5.00	0.20148
6.75	0.81	41.18	200.94	2.34	0.810	0.041	5.08	0.20094
6.76	0.8	40	200.22	2.34	0.800	0.040	5.00	0.20022
6.77	0.79	38.41	199.68	2.34	0.790	0.038	4.86	0.19968
6.78	0.79	37.29	199.23	2.34	0.790	0.037	4.72	0.19923
6.79	0.78	36.91	198.77	2.34	0.780	0.037	4.73	0.19877
6.8	0.78	36.46	198.23	2.34	0.780	0.036	4.67	0.19823
6.81	0.76	36.18	197.51	2.34	0.760	0.036	4.76	0.19751
6.82	0.75	35.99	197.06	2.34	0.750	0.036	4.80	0.19706
6.83	0.74	35.7	197.06	2.34	0.740	0.036	4.82	0.19706
6.84	0.73	35.19	196.88	2.34	0.730	0.035	4.82	0.19688

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.85	0.71	34.74	196.52	2.34	0.710	0.035	4.89	0.19652
6.86	0.7	33.76	195.98	2.34	0.700	0.034	4.82	0.19598
6.87	0.69	32.71	195.44	2.34	0.690	0.033	4.74	0.19544
6.88	0.68	32.26	195.08	2.34	0.680	0.032	4.74	0.19508
6.89	0.68	32.01	194.9	2.34	0.680	0.032	4.71	0.1949
6.9	0.67	31.34	194.81	2.34	0.670	0.031	4.68	0.19481
6.91	0.67	30.7	194.72	2.34	0.670	0.031	4.58	0.19472
6.92	0.67	30.7	194.72	2.34	0.670	0.031	4.58	0.19472
6.93	0.67	30.7	194.72	2.34	0.670	0.031	4.58	0.19472
6.94	0.73	24.43	225.72	2.34	0.730	0.024	3.35	0.22572
6.95	0.73	24.65	229.41	2.34	0.730	0.025	3.38	0.22941
6.96	0.72	24.71	231.93	2.34	0.720	0.025	3.43	0.23193
6.97	0.71	24.49	232.65	2.34	0.710	0.024	3.45	0.23265
6.98	0.7	24.3	234.46	2.34	0.700	0.024	3.47	0.23446
6.99	0.7	23.82	235.99	2.34	0.700	0.024	3.40	0.23599
7	0.7	23.41	237.61	2.34	0.700	0.023	3.34	0.23761
7.01	0.7	23.22	239.14	2.34	0.700	0.023	3.32	0.23914
7.02	0.69	23.09	240.13	2.34	0.690	0.023	3.35	0.24013
7.03	0.7	22.9	241.48	2.34	0.700	0.023	3.27	0.24148
7.04	0.7	22.9	245.36	2.34	0.700	0.023	3.27	0.24536
7.05	0.7	22.64	248.42	2.34	0.700	0.023	3.23	0.24842
7.06	0.71	22.2	251.67	2.34	0.710	0.022	3.13	0.25167
7.07	0.72	21.75	254.64	2.34	0.720	0.022	3.02	0.25464
7.08	0.73	21.18	256.98	2.34	0.730	0.021	2.90	0.25698
7.09	0.75	20.6	260.23	2.34	0.750	0.021	2.75	0.26023
7.1	0.77	20.16	265.27	2.34	0.770	0.020	2.62	0.26527
7.11	0.8	19.9	270.32	2.34	0.800	0.020	2.49	0.27032
7.12	0.81	20.13	275.73	2.34	0.810	0.020	2.49	0.27573
7.13	0.83	20.13	278.97	2.34	0.830	0.020	2.43	0.27897
7.14	0.85	20.16	282.66	2.34	0.850	0.020	2.37	0.28266
7.15	0.87	20	285.01	2.34	0.870	0.020	2.30	0.28501
7.16	0.89	19.97	286.81	2.34	0.890	0.020	2.24	0.28681
7.17	0.91	20.29	288.43	2.34	0.910	0.020	2.23	0.28843
7.18	0.93	20.76	290.14	2.34	0.930	0.021	2.23	0.29014
7.19	0.95	21.5	291.85	2.34	0.950	0.022	2.26	0.29185
7.2	0.97	22.2	291.85	2.34	0.970	0.022	2.29	0.29185
7.21	0.98	23.34	293.21	2.34	0.980	0.023	2.38	0.29321
7.22	0.99	24.84	293.57	2.34	0.990	0.025	2.51	0.29357
7.23	1.01	26.53	295.1	2.34	1.010	0.027	2.63	0.2951
7.24	1.03	27.83	298.25	2.34	1.030	0.028	2.70	0.29825
7.25	1.05	28.82	302.04	2.34	1.050	0.029	2.74	0.30204
7.26	1.01	30.51	303.57	2.34	1.010	0.031	3.02	0.30357
7.27	1.01	31.27	303.21	2.34	1.010	0.031	3.10	0.30321
7.28	0.99	32.39	302.76	2.34	0.990	0.032	3.27	0.30276
7.29	1	34.04	301.41	2.36	1.000	0.034	3.40	0.30141
7.3	1.01	34.87	298.07	2.36	1.010	0.035	3.45	0.29807
7.31	1.03	36.08	285.55	2.34	1.030	0.036	3.50	0.28555
7.32	1.05	37.07	279.6	2.36	1.050	0.037	3.53	0.2796
7.33	1.08	38.37	270.77	2.36	1.080	0.038	3.55	0.27077
7.34	1.1	39.65	270.68	2.36	1.100	0.040	3.60	0.27068
7.35	1.12	41.3	269.96	2.36	1.120	0.041	3.69	0.26996
7.36	1.12	43.41	268.97	2.36	1.120	0.043	3.88	0.26897
7.37	1.13	44.81	268.97	2.36	1.130	0.045	3.97	0.26897
7.38	1.14	46.46	268.7	2.36	1.140	0.046	4.08	0.2687
7.39	1.16	47.96	267.44	2.36	1.160	0.048	4.13	0.26744
7.4	1.2	48.63	272.48	2.36	1.200	0.049	4.05	0.27248
7.41	1.24	49.84	284.38	2.36	1.240	0.050	4.02	0.28438

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.42	1.27	51.5	281.22	2.36	1.270	0.052	4.06	0.28122
7.43	1.31	52.58	282.3	2.36	1.310	0.053	4.01	0.2823
7.44	1.36	53.66	281.04	2.36	1.360	0.054	3.95	0.28104
7.45	1.4	54.3	277.53	2.36	1.400	0.054	3.88	0.27753
7.46	1.42	55.57	271.67	2.36	1.420	0.056	3.91	0.27167
7.47	1.42	57.04	266.35	2.36	1.420	0.057	4.02	0.26635
7.48	1.41	58.72	260.95	2.36	1.410	0.059	4.16	0.26095
7.49	1.42	59.39	257.52	2.36	1.420	0.059	4.18	0.25752
7.5	1.44	60.86	255.27	2.36	1.440	0.061	4.23	0.25527
7.51	1.42	62.71	252.57	2.36	1.420	0.063	4.42	0.25257
7.52	1.4	65.16	252.03	2.36	1.400	0.065	4.65	0.25203
7.53	1.4	66.43	252.93	2.36	1.400	0.066	4.75	0.25293
7.54	1.39	67.7	249.23	2.36	1.390	0.068	4.87	0.24923
7.55	1.38	69.14	243.92	2.36	1.380	0.069	5.01	0.24392
7.56	1.35	70.86	238.69	2.36	1.350	0.071	5.25	0.23869
7.57	1.31	72.64	226.89	2.36	1.310	0.073	5.55	0.22689
7.58	1.27	74.14	217.07	2.36	1.270	0.074	5.84	0.21707
7.59	1.28	74.17	212.65	2.36	1.280	0.074	5.79	0.21265
7.6	1.28	73.76	208.78	2.36	1.280	0.074	5.76	0.20878
7.61	1.28	73.15	209.5	2.36	1.280	0.073	5.71	0.2095
7.62	1.27	73.05	207.15	2.36	1.270	0.073	5.75	0.20715
7.63	1.26	72.58	203.55	2.36	1.260	0.073	5.76	0.20355
7.64	1.24	72	205.53	2.36	1.240	0.072	5.81	0.20553
7.65	1.23	71.84	214.54	2.36	1.230	0.072	5.84	0.21454
7.66	1.23	71.11	223.19	2.36	1.230	0.071	5.78	0.22319
7.67	1.21	70.86	229.32	2.36	1.210	0.071	5.86	0.22932
7.68	1.21	70.09	236.53	2.36	1.210	0.070	5.79	0.23653
7.69	1.23	68.34	238.24	2.36	1.230	0.068	5.56	0.23824
7.7	1.23	66.65	238.15	2.36	1.230	0.067	5.42	0.23815
7.71	1.24	65.51	237.79	2.36	1.240	0.066	5.28	0.23779
7.72	1.25	63.85	235.09	2.36	1.250	0.064	5.11	0.23509
7.73	1.25	62.99	232.2	2.36	1.250	0.063	5.04	0.2322
7.74	1.26	61.65	230.76	2.36	1.260	0.062	4.89	0.23076
7.75	1.26	60.35	229.14	2.36	1.260	0.060	4.79	0.22914
7.76	1.25	59.9	227.34	2.36	1.250	0.060	4.79	0.22734
7.77	1.25	59.04	222.92	2.36	1.250	0.059	4.72	0.22292
7.78	1.25	58.82	221.3	2.36	1.250	0.059	4.71	0.2213
7.79	1.24	58.09	220.94	2.36	1.240	0.058	4.68	0.22094
7.8	1.26	57.16	220.58	2.36	1.260	0.057	4.54	0.22058
7.81	1.27	57.16	222.11	2.36	1.270	0.057	4.50	0.22211
7.82	1.29	57.45	225.72	2.36	1.290	0.057	4.45	0.22572
7.83	1.31	57.64	226.62	2.29	1.310	0.058	4.40	0.22662
7.84	1.34	57.83	227.61	2.29	1.340	0.058	4.32	0.22761
7.85	1.34	58.25	228.78	2.29	1.340	0.058	4.35	0.22878
7.86	1.34	58.95	229.32	2.29	1.340	0.059	4.40	0.22932
7.87	1.34	59.36	230.67	2.29	1.340	0.059	4.43	0.23067
7.88	1.33	60.09	230.13	2.29	1.330	0.060	4.52	0.23013
7.89	1.35	60.44	230.76	2.29	1.350	0.060	4.48	0.23076
7.9	1.36	60.67	232.47	2.29	1.360	0.061	4.46	0.23247
7.91	1.37	61.4	233.65	2.29	1.370	0.061	4.48	0.23365
7.92	1.37	61.4	233.65	2.29	1.370	0.061	4.48	0.23365
7.93	1.37	61.4	233.65	2.29	1.370	0.061	4.48	0.23365
7.94	1.41	59.58	250.59	2.36	1.410	0.060	4.23	0.25059
7.95	1.38	61.05	251.58	2.36	1.380	0.061	4.42	0.25158
7.96	1.34	62.16	251.76	2.36	1.340	0.062	4.64	0.25176
7.97	1.29	63.47	251.76	2.36	1.290	0.063	4.92	0.25176
7.98	1.26	64.17	254.1	2.36	1.260	0.064	5.09	0.2541

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.99	1.24	65.6	253.83	2.36	1.240	0.066	5.29	0.25383
8	1.22	66.21	253.92	2.36	1.220	0.066	5.43	0.25392
8.01	1.21	66.85	255.18	2.36	1.210	0.067	5.52	0.25518
8.02	1.17	67.1	255.72	2.36	1.170	0.067	5.74	0.25572
8.03	1.14	65.92	254.28	2.36	1.140	0.066	5.78	0.25428
8.04	1.12	65.76	253.83	2.36	1.120	0.066	5.87	0.25383
8.05	1.09	65.51	253.47	2.36	1.090	0.066	6.01	0.25347
8.06	1.08	64.07	253.11	2.36	1.080	0.064	5.93	0.25311
8.07	1.06	61.94	252.66	2.36	1.060	0.062	5.84	0.25266
8.08	1.04	60.22	251.94	2.36	1.040	0.060	5.79	0.25194
8.09	1.02	58.44	250.95	2.36	1.020	0.058	5.73	0.25095
8.1	1	56.69	250.41	2.34	1.000	0.057	5.67	0.25041
8.11	0.97	55.25	250.32	2.36	0.970	0.055	5.70	0.25032
8.12	0.96	53.66	251.67	2.29	0.960	0.054	5.59	0.25167
8.13	0.94	51.46	254.19	2.27	0.940	0.051	5.47	0.25419
8.14	0.94	48.95	257.7	2.27	0.940	0.049	5.21	0.2577
8.15	0.96	45.57	262.66	2.27	0.960	0.046	4.75	0.26266
8.16	0.99	42.77	270.68	2.27	0.990	0.043	4.32	0.27068
8.17	1.02	40.25	278.07	2.27	1.020	0.040	3.95	0.27807
8.18	1.06	37.67	286.72	2.27	1.060	0.038	3.55	0.28672
8.19	1.17	35.54	297.08	2.27	1.170	0.036	3.04	0.29708
8.2	1.28	33.82	302.67	2.27	1.280	0.034	2.64	0.30267
8.21	1.34	33.6	304.02	2.27	1.340	0.034	2.51	0.30402
8.22	1.34	33.73	308.07	2.27	1.340	0.034	2.52	0.30807
8.23	1.37	34.3	309.88	2.27	1.370	0.034	2.50	0.30988
8.24	1.48	33.92	313.39	2.27	1.480	0.034	2.29	0.31339
8.25	1.58	32.2	310.96	2.27	1.580	0.032	2.04	0.31096
8.26	1.6	32.48	314.56	2.27	1.600	0.032	2.03	0.31456
8.27	1.83	35.16	293.48	2.27	1.830	0.035	1.92	0.29348
8.28	1.53	38.22	117.41	2.27	1.530	0.038	2.50	0.11741
8.29	1.3	40.41	107.68	2.27	1.300	0.040	3.11	0.10768
8.3	1.26	41.75	124.17	2.27	1.260	0.042	3.31	0.12417
8.31	1.22	40.99	137.5	2.27	1.220	0.041	3.36	0.1375
8.32	1.18	40.79	146.6	2.25	1.180	0.041	3.46	0.1466
8.33	1.15	39.94	153.81	2.25	1.150	0.040	3.47	0.15381
8.34	1.15	39.52	161.38	2.25	1.150	0.040	3.44	0.16138
8.35	1.17	38.95	167.15	2.27	1.170	0.039	3.33	0.16715
8.36	1.19	37.93	173.36	2.27	1.190	0.038	3.19	0.17336
8.37	1.2	37.23	177.69	2.27	1.200	0.037	3.10	0.17769
8.38	1.17	36.34	180.3	2.25	1.170	0.036	3.11	0.1803
8.39	1.15	34.78	182.47	2.25	1.150	0.035	3.02	0.18247
8.4	1.15	33.95	184.45	2.25	1.150	0.034	2.95	0.18445
8.41	1.16	32.77	186.79	2.25	1.160	0.033	2.83	0.18679
8.42	1.15	31.66	189.22	2.17	1.150	0.032	2.75	0.18922
8.43	1.14	28.34	191.57	2.17	1.140	0.028	2.49	0.19157
8.44	1.2	26.62	194	2.17	1.200	0.027	2.22	0.194
8.45	1.14	25.73	196.61	2.17	1.140	0.026	2.26	0.19661
8.46	1.15	25.8	198.68	2.17	1.150	0.026	2.24	0.19868
8.47	1.15	25.41	199.59	2.17	1.150	0.025	2.21	0.19959
8.48	1.16	25.48	200.04	2.17	1.160	0.025	2.20	0.20004
8.49	1.15	25.89	199.68	2.17	1.150	0.026	2.25	0.19968
8.5	1.13	26.02	199.41	2.17	1.130	0.026	2.30	0.19941
8.51	1.12	26.56	199.5	2.17	1.120	0.027	2.37	0.1995
8.52	1.11	27.07	200.31	2.17	1.110	0.027	2.44	0.20031
8.53	1.12	27.55	201.21	2.17	1.120	0.028	2.46	0.20121
8.54	1.13	27.23	202.47	2.17	1.130	0.027	2.41	0.20247
8.55	1.17	26.81	204.27	2.17	1.170	0.027	2.29	0.20427

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
8.56	1.19	26.97	205.08	2.17	1.190	0.027	2.27	0.20508
8.57	1.22	27.71	206.07	2.17	1.220	0.028	2.27	0.20607
8.58	1.27	29.78	207.6	2.1	1.270	0.030	2.34	0.2076
8.59	1.34	31.69	209.05	2.1	1.340	0.032	2.36	0.20905
8.6	1.41	33.69	209.86	2.1	1.410	0.034	2.39	0.20986
8.61	1.48	35.41	210.49	2.1	1.480	0.035	2.39	0.21049
8.62	1.56	37.23	211.21	2.1	1.560	0.037	2.39	0.21121
8.63	1.62	38.95	211.84	2.1	1.620	0.039	2.40	0.21184
8.64	1.66	40.64	212.02	2.1	1.660	0.041	2.45	0.21202
8.65	1.71	43.09	212.29	2.1	1.710	0.043	2.52	0.21229
8.66	1.74	44.74	212.38	2.1	1.740	0.045	2.57	0.21238
8.67	1.78	44.93	212.92	2.1	1.780	0.045	2.52	0.21292
8.68	1.84	45.41	214.27	2.1	1.840	0.045	2.47	0.21427
8.69	1.93	46.81	216.07	2.1	1.930	0.047	2.43	0.21607
8.7	2.01	47.71	217.16	2.08	2.010	0.048	2.37	0.21716
8.71	2.08	48.18	217.88	2.08	2.080	0.048	2.32	0.21788
8.72	2.14	47.71	218.42	2.08	2.140	0.048	2.23	0.21842
8.73	2.19	47	207.88	2.1	2.190	0.047	2.15	0.20788
8.74	2.25	47.13	169.31	2.1	2.250	0.047	2.09	0.16931
8.75	2.27	47.45	146.69	2.1	2.270	0.047	2.09	0.14669
8.76	2.26	48.28	128.94	2.1	2.260	0.048	2.14	0.12894
8.77	2.23	47.9	119.21	2.1	2.230	0.048	2.15	0.11921
8.78	2.18	46.78	114.16	2.03	2.180	0.047	2.15	0.11416
8.79	2.11	46.62	99.66	2.03	2.110	0.047	2.21	0.09966
8.8	2.06	47.26	82.09	2.03	2.060	0.047	2.29	0.08209
8.81	1.97	47.39	66.14	2.03	1.970	0.047	2.41	0.06614
8.82	1.85	47.83	49.38	2.03	1.850	0.048	2.59	0.04938
8.83	1.7	47.51	40.82	2.03	1.700	0.048	2.79	0.04082
8.84	1.54	46.34	37.93	2.03	1.540	0.046	3.01	0.03793
8.85	1.39	43.28	37.57	2.03	1.390	0.043	3.11	0.03757
8.86	1.26	38.44	43.43	2.03	1.260	0.038	3.05	0.04343
8.87	1.15	33.6	46.77	2.03	1.150	0.034	2.92	0.04677
8.88	1.05	30.99	51.27	2.03	1.050	0.031	2.95	0.05127
8.89	0.96	30.09	57.04	2.03	0.960	0.030	3.13	0.05704
8.9	0.93	28.44	73.26	1.95	0.930	0.028	3.06	0.07326
8.91	0.96	27.87	115.7	1.95	0.960	0.028	2.90	0.1157
8.92	0.96	27.87	115.7	1.95	0.960	0.028	2.90	0.1157
8.93	0.96	27.87	115.7	1.95	0.960	0.028	2.90	0.1157
8.94	1.21	25.38	356.73	1.95	1.210	0.025	2.10	0.35673
8.95	1.24	26.08	364.75	1.95	1.240	0.026	2.10	0.36475
8.96	1.21	25.95	365.29	1.95	1.210	0.026	2.14	0.36529
8.97	1.19	25.89	366.82	1.95	1.190	0.026	2.18	0.36682
8.98	1.18	25.7	365.11	1.95	1.180	0.026	2.18	0.36511
8.99	1.15	26.05	346.91	1.95	1.150	0.026	2.27	0.34691
9	1.15	27.01	337.36	1.95	1.150	0.027	2.35	0.33736
9.01	1.17	27.23	296.18	1.95	1.170	0.027	2.33	0.29618
9.02	1.14	28.34	97.77	1.95	1.140	0.028	2.49	0.09777
9.03	1.12	30.06	120.65	1.95	1.120	0.030	2.68	0.12065
9.04	1.11	31.46	125.07	1.95	1.110	0.031	2.83	0.12507
9.05	1.11	32.58	130.11	1.88	1.110	0.033	2.94	0.13011
9.06	1.1	33.88	136.15	1.95	1.100	0.034	3.08	0.13615
9.07	1.1	34.3	142.01	1.88	1.100	0.034	3.12	0.14201
9.08	1.11	34.23	149.85	1.88	1.110	0.034	3.08	0.14985
9.09	1.12	33.95	155.52	1.88	1.120	0.034	3.03	0.15552
9.1	1.14	33.95	160.75	1.88	1.140	0.034	2.98	0.16075
9.11	1.15	33.85	163.72	1.88	1.150	0.034	2.94	0.16372
9.12	1.17	34.33	165.8	1.88	1.170	0.034	2.93	0.1658

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.13	1.17	34.74	167.15	1.88	1.170	0.035	2.97	0.16715
9.14	1.16	35.38	167.51	1.88	1.160	0.035	3.05	0.16751
9.15	1.14	36.05	169.31	1.88	1.140	0.036	3.16	0.16931
9.16	1.13	35.51	171.02	1.86	1.130	0.036	3.14	0.17102
9.17	1.12	35.25	173.36	1.88	1.120	0.035	3.15	0.17336
9.18	1.14	34.74	179.58	1.86	1.140	0.035	3.05	0.17958
9.19	1.19	34.33	187.24	1.81	1.190	0.034	2.88	0.18724
9.2	1.25	34.04	197.87	1.79	1.250	0.034	2.72	0.19787
9.21	1.3	34.43	206.34	1.79	1.300	0.034	2.65	0.20634
9.22	1.34	35.16	214	1.79	1.340	0.035	2.62	0.214
9.23	1.36	36.21	218.51	1.79	1.360	0.036	2.66	0.21851
9.24	1.37	36.56	220.94	1.79	1.370	0.037	2.67	0.22094
9.25	1.38	37.01	221.93	1.79	1.380	0.037	2.68	0.22193
9.26	1.38	37.01	221.93	1.79	1.380	0.037	2.68	0.22193
9.27	1.37	37.9	223.91	1.79	1.370	0.038	2.77	0.22391
9.28	1.38	39.23	226.35	1.79	1.380	0.039	2.84	0.22635
9.29	1.39	40.25	227.16	1.79	1.390	0.040	2.90	0.22716
9.3	1.39	41.72	227.07	1.79	1.390	0.042	3.00	0.22707
9.31	1.37	43.66	227.43	1.79	1.370	0.044	3.19	0.22743
9.32	1.37	47.04	230.13	1.79	1.370	0.047	3.43	0.23013
9.33	1.36	49.27	231.3	1.79	1.360	0.049	3.62	0.2313
9.34	1.36	51.4	231.93	1.71	1.360	0.051	3.78	0.23193
9.35	1.35	53.66	231.93	1.79	1.350	0.054	3.97	0.23193
9.36	1.34	55.48	232.11	1.79	1.340	0.055	4.14	0.23211
9.37	1.33	57.23	232.65	1.76	1.330	0.057	4.30	0.23265
9.38	1.34	57.96	234.37	1.76	1.340	0.058	4.33	0.23437
9.39	1.35	58.63	235.9	1.69	1.350	0.059	4.34	0.2359
9.4	1.34	58.15	235.36	1.69	1.340	0.058	4.34	0.23536
9.41	1.32	57.16	234.91	1.69	1.320	0.057	4.33	0.23491
9.42	1.3	56.56	234.01	1.69	1.300	0.057	4.35	0.23401
9.43	1.3	55.86	232.83	1.69	1.300	0.056	4.30	0.23283
9.44	1.29	55.35	231.57	1.69	1.290	0.055	4.29	0.23157
9.45	1.26	55.54	230.4	1.69	1.260	0.056	4.41	0.2304
9.46	1.25	55.92	228.78	1.69	1.250	0.056	4.47	0.22878
9.47	1.22	56.97	227.7	1.69	1.220	0.057	4.67	0.2277
9.48	1.18	57.13	227.16	1.69	1.180	0.057	4.84	0.22716
9.49	1.16	56.56	226.89	1.69	1.160	0.057	4.88	0.22689
9.5	1.15	55.41	227.07	1.69	1.150	0.055	4.82	0.22707
9.51	1.14	54.68	227.61	1.69	1.140	0.055	4.80	0.22761
9.52	1.13	53.41	228.78	1.69	1.130	0.053	4.73	0.22878
9.53	1.1	52.45	228.15	1.69	1.100	0.052	4.77	0.22815
9.54	1.1	50.57	227.16	1.69	1.100	0.051	4.60	0.22716
9.55	1.09	49.01	227.79	1.69	1.090	0.049	4.50	0.22779
9.56	1.08	48.31	227.61	1.69	1.080	0.048	4.47	0.22761
9.57	1.05	47.45	226.98	1.69	1.050	0.047	4.52	0.22698
9.58	1	46.56	226.62	1.69	1.000	0.047	4.66	0.22662
9.59	0.98	44.3	226.89	1.69	0.980	0.044	4.52	0.22689
9.6	0.97	42.58	227.79	1.69	0.970	0.043	4.39	0.22779
9.61	0.96	41.05	228.06	1.69	0.960	0.041	4.28	0.22806
9.62	0.94	39.97	227.97	1.69	0.940	0.040	4.25	0.22797
9.63	0.92	39.43	228.15	1.69	0.920	0.039	4.29	0.22815
9.64	0.9	38.76	229.32	1.69	0.900	0.039	4.31	0.22932
9.65	0.88	37.48	231.39	1.69	0.880	0.037	4.26	0.23139
9.66	0.88	35.57	233.92	1.69	0.880	0.036	4.04	0.23392
9.67	0.88	33.18	235.99	1.69	0.880	0.033	3.77	0.23599
9.68	0.89	31.18	238.42	1.69	0.890	0.031	3.50	0.23842
9.69	0.91	29.65	240.58	1.69	0.910	0.030	3.26	0.24058

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.7	0.91	27.96	242.75	1.69	0.910	0.028	3.07	0.24275
9.71	0.93	25.76	244.46	1.69	0.930	0.026	2.77	0.24446
9.72	0.94	23.82	244.91	1.69	0.940	0.024	2.53	0.24491
9.73	0.94	22.55	244.73	1.69	0.940	0.023	2.40	0.24473
9.74	0.92	21.5	244.1	1.69	0.920	0.022	2.34	0.2441
9.75	0.9	20.86	244.01	1.69	0.900	0.021	2.32	0.24401
9.76	0.88	19.55	244.01	1.69	0.880	0.020	2.22	0.24401
9.77	0.87	17.8	244.55	1.69	0.870	0.018	2.05	0.24455
9.78	0.86	16.43	246.53	1.69	0.860	0.016	1.91	0.24653
9.79	0.88	15.29	249.77	1.69	0.880	0.015	1.74	0.24977
9.8	0.89	14.36	252.21	1.69	0.890	0.014	1.61	0.25221
9.81	0.91	13.82	254.28	1.69	0.910	0.014	1.52	0.25428
9.82	0.92	13.57	256.08	1.69	0.920	0.014	1.48	0.25608
9.83	0.94	13.34	257.61	1.69	0.940	0.013	1.42	0.25761
9.84	0.94	13.18	258.7	1.69	0.940	0.013	1.40	0.2587
9.85	0.96	13.66	259.96	1.62	0.960	0.014	1.42	0.25996
9.86	0.97	14.71	261.22	1.69	0.970	0.015	1.52	0.26122
9.87	0.98	15.7	262.39	1.69	0.980	0.016	1.60	0.26239
9.88	0.97	15.99	262.93	1.69	0.970	0.016	1.65	0.26293
9.89	0.96	16.46	263.74	1.69	0.960	0.016	1.71	0.26374
9.9	0.96	16.4	264.19	1.62	0.960	0.016	1.71	0.26419
9.91	0.93	16.31	263.65	1.69	0.930	0.016	1.75	0.26365
9.92	0.93	16.31	263.65	1.69	0.930	0.016	1.75	0.26365
9.93	0.93	16.31	263.65	1.69	0.930	0.016	1.75	0.26365
9.94	1.03	23.41	278.7	1.62	1.030	0.023	2.27	0.2787
9.95	1.03	23.41	278.7	1.62	1.030	0.023	2.27	0.2787
9.96	0.98	24.39	285.46	1.62	0.980	0.024	2.49	0.28546
9.97	0.98	23.79	287.98	1.62	0.980	0.024	2.43	0.28798
9.98	0.98	23.34	295.1	1.62	0.980	0.023	2.38	0.2951
9.99	1	23.02	302.22	1.62	1.000	0.023	2.30	0.30222
10	1.01	22.74	306.36	1.62	1.010	0.023	2.25	0.30636
10.01	1.02	22.2	308.88	1.62	1.020	0.022	2.18	0.30888
10.02	1.02	21.69	312.58	1.62	1.020	0.022	2.13	0.31258
10.03	1.03	21.37	316.9	1.62	1.030	0.021	2.07	0.3169
10.04	1.05	21.21	323.21	1.62	1.050	0.021	2.02	0.32321
10.05	1.09	21.24	332.67	1.62	1.090	0.021	1.95	0.33267
10.06	1.12	21.46	339.43	1.62	1.120	0.021	1.92	0.33943
10.07	1.14	21.72	345.29	1.62	1.140	0.022	1.91	0.34529
10.08	1.16	21.72	349.52	1.62	1.160	0.022	1.87	0.34952
10.09	1.18	21.69	352.59	1.62	1.180	0.022	1.84	0.35259
10.1	1.2	21.59	354.3	1.54	1.200	0.022	1.80	0.3543
10.11	1.2	21.59	354.3	1.54	1.200	0.022	1.80	0.3543
10.12	1.21	21.91	353.76	1.54	1.210	0.022	1.81	0.35376
10.13	1.21	23.18	348.8	1.54	1.210	0.023	1.92	0.3488
10.14	1.21	24.23	344.48	1.54	1.210	0.024	2.00	0.34448
10.15	1.2	25.8	342.22	1.54	1.200	0.026	2.15	0.34222
10.16	1.17	27.16	340.78	1.54	1.170	0.027	2.32	0.34078
10.17	1.16	28.5	338.62	1.54	1.160	0.029	2.46	0.33862
10.18	1.14	29.68	336.82	1.54	1.140	0.030	2.60	0.33682
10.19	1.11	30.54	333.3	1.54	1.110	0.031	2.75	0.3333
10.2	1.09	31.3	328.44	1.54	1.090	0.031	2.87	0.32844
10.21	1.04	32.39	324.02	1.54	1.040	0.032	3.11	0.32402
10.22	0.99	33.63	319.97	1.54	0.990	0.034	3.40	0.31997
10.23	0.97	34.23	316.99	1.54	0.970	0.034	3.53	0.31699
10.24	0.96	34.36	313.57	1.54	0.960	0.034	3.58	0.31357
10.25	0.93	35.16	310.24	1.54	0.930	0.035	3.78	0.31024
10.26	0.91	35.83	307.53	1.54	0.910	0.036	3.94	0.30753

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.27	0.89	35.92	305.28	1.54	0.890	0.036	4.04	0.30528
10.28	0.89	35.67	303.66	1.54	0.890	0.036	4.01	0.30366
10.29	0.88	35.13	303.03	1.54	0.880	0.035	3.99	0.30303
10.3	0.86	34.87	301.86	1.54	0.860	0.035	4.05	0.30186
10.31	0.86	34.62	301.05	1.54	0.860	0.035	4.03	0.30105
10.32	0.85	33.88	300.32	1.54	0.850	0.034	3.99	0.30032
10.33	0.85	33.69	300.23	1.54	0.850	0.034	3.96	0.30023
10.34	0.84	33.41	299.87	1.54	0.840	0.033	3.98	0.29987
10.35	0.83	32.87	299.33	1.54	0.830	0.033	3.96	0.29933
10.36	0.82	32.23	298.25	1.47	0.820	0.032	3.93	0.29825
10.37	0.81	31.69	297.62	1.54	0.810	0.032	3.91	0.29762
10.38	0.79	31.69	298.34	1.54	0.790	0.032	4.01	0.29834
10.39	0.79	31.08	299.15	1.47	0.790	0.031	3.93	0.29915
10.4	0.79	30.32	299.24	1.54	0.790	0.030	3.84	0.29924
10.41	0.78	29.9	299.15	1.47	0.780	0.030	3.83	0.29915
10.42	0.76	29.43	298.7	1.47	0.760	0.029	3.87	0.2987
10.43	0.74	28.66	298.07	1.47	0.740	0.029	3.87	0.29807
10.44	0.72	27.8	298.16	1.47	0.720	0.028	3.86	0.29816
10.45	0.72	26.75	298.25	1.47	0.720	0.027	3.72	0.29825
10.46	0.71	26.02	297.8	1.47	0.710	0.026	3.66	0.2978
10.47	0.7	25.51	297.26	1.47	0.700	0.026	3.64	0.29726
10.48	0.7	25.03	297.53	1.47	0.700	0.025	3.58	0.29753
10.49	0.71	24.33	298.34	1.54	0.710	0.024	3.43	0.29834
10.5	0.71	24.14	299.33	1.54	0.710	0.024	3.40	0.29933
10.51	0.71	23.76	300.77	1.47	0.710	0.024	3.35	0.30077
10.52	0.71	23.63	302.22	1.54	0.710	0.024	3.33	0.30222
10.53	0.71	23.38	304.2	1.54	0.710	0.023	3.29	0.3042
10.54	0.71	23.02	305.19	1.57	0.710	0.023	3.24	0.30519
10.55	0.71	22.48	305.64	1.47	0.710	0.022	3.17	0.30564
10.56	0.71	21.78	304.56	1.5	0.710	0.022	3.07	0.30456
10.57	0.7	20.99	303.03	1.47	0.700	0.021	3.00	0.30303
10.58	0.71	20.45	303.84	1.5	0.710	0.020	2.88	0.30384
10.59	0.73	20.19	302.4	1.47	0.730	0.020	2.77	0.3024
10.6	0.72	20.41	302.22	1.5	0.720	0.020	2.83	0.30222
10.61	0.7	20.64	300.41	1.5	0.700	0.021	2.95	0.30041
10.62	0.7	20.64	299.87	1.5	0.700	0.021	2.95	0.29987
10.63	0.72	20.32	300.05	1.5	0.720	0.020	2.82	0.30005
10.64	0.73	20.03	298.79	1.5	0.730	0.020	2.74	0.29879
10.65	0.73	19.68	297.44	1.5	0.730	0.020	2.70	0.29744
10.66	0.73	19.68	297.17	1.5	0.730	0.020	2.70	0.29717
10.67	0.74	19.71	296.27	1.5	0.740	0.020	2.66	0.29627
10.68	0.75	19.78	296.36	1.5	0.750	0.020	2.64	0.29636
10.69	0.75	20.29	297.89	1.5	0.750	0.020	2.71	0.29789
10.7	0.77	21.21	300.96	1.5	0.770	0.021	2.75	0.30096
10.71	0.78	21.91	304.11	1.5	0.780	0.022	2.81	0.30411
10.72	0.8	22.29	307.35	1.5	0.800	0.022	2.79	0.30735
10.73	0.81	22.16	311.23	1.5	0.810	0.022	2.74	0.31123
10.74	0.83	21.66	314.02	1.5	0.830	0.022	2.61	0.31402
10.75	0.85	21.5	318.44	1.43	0.850	0.022	2.53	0.31844
10.76	0.88	21.75	322.13	1.46	0.880	0.022	2.47	0.32213
10.77	0.91	22.07	323.57	1.53	0.910	0.022	2.43	0.32357
10.78	0.94	22.99	323.57	1.43	0.940	0.023	2.45	0.32357
10.79	0.94	23.15	322.49	1.46	0.940	0.023	2.46	0.32249
10.8	0.94	22.8	323.03	1.53	0.940	0.023	2.43	0.32303
10.81	0.97	21.97	324.29	1.43	0.970	0.022	2.26	0.32429
10.82	0.99	21.81	325.46	1.43	0.990	0.022	2.20	0.32546
10.83	1.01	21.78	324.74	1.43	1.010	0.022	2.16	0.32474

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.84	1	21.62	323.21	1.43	1.000	0.022	2.16	0.32321
10.85	0.99	21.37	320.42	1.43	0.990	0.021	2.16	0.32042
10.86	0.98	20.92	316.99	1.43	0.980	0.021	2.13	0.31699
10.87	0.95	20.51	311.59	1.46	0.950	0.021	2.16	0.31159
10.88	0.91	20.76	306.81	1.43	0.910	0.021	2.28	0.30681
10.89	0.88	20.67	303.93	1.43	0.880	0.021	2.35	0.30393
10.9	0.86	20.41	301.95	1.43	0.860	0.020	2.37	0.30195
10.91	0.84	19.71	301.86	1.43	0.840	0.020	2.35	0.30186
10.92	0.84	19.71	301.86	1.43	0.840	0.020	2.35	0.30186
10.93	0.84	19.71	301.86	1.43	0.840	0.020	2.35	0.30186
10.94	0.91	14.94	369.53	1.43	0.910	0.015	1.64	0.36953
10.95	0.9	15.57	363.76	1.46	0.900	0.016	1.73	0.36376
10.96	0.88	16.18	360.43	1.43	0.880	0.016	1.84	0.36043
10.97	0.87	16.56	358.08	1.46	0.870	0.017	1.90	0.35808
10.98	0.86	16.62	356.37	1.43	0.860	0.017	1.93	0.35637
10.99	0.85	16.66	353.67	1.46	0.850	0.017	1.96	0.35367
11	0.84	16.5	352.05	1.46	0.840	0.017	1.96	0.35205
11.01	0.83	16.24	352.32	1.46	0.830	0.016	1.96	0.35232
11.02	0.83	15.92	352.59	1.46	0.830	0.016	1.92	0.35259
11.03	0.83	15.6	352.95	1.46	0.830	0.016	1.88	0.35295
11.04	0.83	15.22	353.22	1.46	0.830	0.015	1.83	0.35322
11.05	0.83	14.78	353.13	1.39	0.830	0.015	1.78	0.35313
11.06	0.83	14.24	352.41	1.46	0.830	0.014	1.72	0.35241
11.07	0.83	13.73	352.23	1.46	0.830	0.014	1.65	0.35223
11.08	0.83	13.25	351.87	1.46	0.830	0.013	1.60	0.35187
11.09	0.84	12.99	351.59	1.39	0.840	0.013	1.55	0.35159
11.1	0.84	12.71	351.78	1.39	0.840	0.013	1.51	0.35178
11.11	0.85	12.71	354.48	1.39	0.850	0.013	1.50	0.35448
11.12	0.87	12.61	357.36	1.39	0.870	0.013	1.45	0.35736
11.13	0.9	12.71	359.97	1.39	0.900	0.013	1.41	0.35997
11.14	0.92	13.03	360.79	1.39	0.920	0.013	1.42	0.36079
11.15	0.93	13.6	361.06	1.39	0.930	0.014	1.46	0.36106
11.16	0.94	13.92	358.44	1.39	0.940	0.014	1.48	0.35844
11.17	0.93	14.59	353.67	1.39	0.930	0.015	1.57	0.35367
11.18	0.91	15.32	349.07	1.39	0.910	0.015	1.68	0.34907
11.19	0.89	15.73	344.57	1.39	0.890	0.016	1.77	0.34457
11.2	0.86	15.99	341.32	1.39	0.860	0.016	1.86	0.34132
11.21	0.83	15.89	339.52	1.39	0.830	0.016	1.91	0.33952
11.22	0.81	15.45	338.8	1.39	0.810	0.015	1.91	0.3388
11.23	0.8	14.52	340.42	1.39	0.800	0.015	1.82	0.34042
11.24	0.8	13.41	343.03	1.39	0.800	0.013	1.68	0.34303
11.25	0.81	12.55	344.93	1.39	0.810	0.013	1.55	0.34493
11.26	0.81	12.07	345.65	1.39	0.810	0.012	1.49	0.34565
11.27	0.82	11.88	346.64	1.39	0.820	0.012	1.45	0.34664
11.28	0.82	11.81	348.17	1.39	0.820	0.012	1.44	0.34817
11.29	0.83	11.59	347.54	1.39	0.830	0.012	1.40	0.34754
11.3	0.83	11.97	347.18	1.39	0.830	0.012	1.44	0.34718
11.31	0.81	12.36	346.82	1.39	0.810	0.012	1.53	0.34682
11.32	0.81	12.29	347	1.32	0.810	0.012	1.52	0.347
11.33	0.8	12.2	347.09	1.39	0.800	0.012	1.53	0.34709
11.34	0.8	12.32	347.72	1.39	0.800	0.012	1.54	0.34772
11.35	0.81	12.74	348.62	1.39	0.810	0.013	1.57	0.34862
11.36	0.81	13.03	349.25	1.32	0.810	0.013	1.61	0.34925
11.37	0.81	13.41	349.34	1.32	0.810	0.013	1.66	0.34934
11.38	0.8	13.82	349.25	1.32	0.800	0.014	1.73	0.34925
11.39	0.8	14.17	349.61	1.32	0.800	0.014	1.77	0.34961
11.4	0.81	14.49	350.87	1.32	0.810	0.014	1.79	0.35087

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.41	0.81	14.71	351.78	1.32	0.810	0.015	1.82	0.35178
11.42	0.81	14.71	351.78	1.32	0.810	0.015	1.82	0.35178
11.43	0.82	14.97	353.76	1.32	0.820	0.015	1.83	0.35376
11.44	0.82	15.22	355.38	1.32	0.820	0.015	1.86	0.35538
11.45	0.83	15.25	356.73	1.32	0.830	0.015	1.84	0.35673
11.46	0.83	15.19	357.18	1.32	0.830	0.015	1.83	0.35718
11.47	0.83	15.35	357.09	1.32	0.830	0.015	1.85	0.35709
11.48	0.82	15.67	357.72	1.32	0.820	0.016	1.91	0.35772
11.49	0.82	15.73	359.16	1.32	0.820	0.016	1.92	0.35916
11.5	0.82	15.73	359.88	1.32	0.820	0.016	1.92	0.35988
11.51	0.82	15.83	360.7	1.36	0.820	0.016	1.93	0.3607
11.52	0.82	15.92	361.51	1.36	0.820	0.016	1.94	0.36151
11.53	0.82	15.92	362.23	1.36	0.820	0.016	1.94	0.36223
11.54	0.82	16.02	363.49	1.36	0.820	0.016	1.95	0.36349
11.55	0.82	16.15	364.21	1.36	0.820	0.016	1.97	0.36421
11.56	0.82	16.4	364.21	1.36	0.820	0.016	2.00	0.36421
11.57	0.81	16.62	364.3	1.36	0.810	0.017	2.05	0.3643
11.58	0.81	16.62	364.3	1.36	0.810	0.017	2.05	0.3643
11.59	0.81	17.07	365.11	1.36	0.810	0.017	2.11	0.36511
11.6	0.81	17.13	365.2	1.36	0.810	0.017	2.11	0.3652
11.61	0.81	17.07	365.02	1.36	0.810	0.017	2.11	0.36502
11.62	0.81	17.26	364.75	1.36	0.810	0.017	2.13	0.36475
11.63	0.81	17.61	363.58	1.29	0.810	0.018	2.17	0.36358
11.64	0.8	18.28	362.23	1.29	0.800	0.018	2.29	0.36223
11.65	0.79	18.6	360.43	1.29	0.790	0.019	2.35	0.36043
11.66	0.78	18.79	360.15	1.29	0.780	0.019	2.41	0.36015
11.67	0.78	18.69	359.61	1.29	0.780	0.019	2.40	0.35961
11.68	0.78	18.63	356.28	1.29	0.780	0.019	2.39	0.35628
11.69	0.78	18.95	351.59	1.29	0.780	0.019	2.43	0.35159
11.7	0.76	19.62	348.98	1.29	0.760	0.020	2.58	0.34898
11.71	0.75	20.06	347	1.29	0.750	0.020	2.67	0.347
11.72	0.74	20.22	344.66	1.29	0.740	0.020	2.73	0.34466
11.73	0.73	20.35	343.94	1.29	0.730	0.020	2.79	0.34394
11.74	0.71	20.51	343.67	1.29	0.710	0.021	2.89	0.34367
11.75	0.7	20.38	343.94	1.29	0.700	0.020	2.91	0.34394
11.76	0.69	20.22	345.56	1.29	0.690	0.020	2.93	0.34556
11.77	0.69	19.97	346.82	1.29	0.690	0.020	2.89	0.34682
11.78	0.69	19.62	347.45	1.29	0.690	0.020	2.84	0.34745
11.79	0.69	19.04	346.82	1.23	0.690	0.019	2.76	0.34682
11.8	0.68	18.6	345.74	1.23	0.680	0.019	2.74	0.34574
11.81	0.68	18.76	345.11	1.23	0.680	0.019	2.76	0.34511
11.82	0.67	18.53	343.67	1.23	0.670	0.019	2.77	0.34367
11.83	0.67	18.06	343.21	1.23	0.670	0.018	2.70	0.34321
11.84	0.67	17.42	344.12	1.23	0.670	0.017	2.60	0.34412
11.85	0.67	16.78	345.47	1.23	0.670	0.017	2.50	0.34547
11.86	0.67	16.27	346.73	1.29	0.670	0.016	2.43	0.34673
11.87	0.68	15.99	348.08	1.23	0.680	0.016	2.35	0.34808
11.88	0.67	15.83	348.35	1.23	0.670	0.016	2.36	0.34835
11.89	0.66	15.67	347.72	1.23	0.660	0.016	2.37	0.34772
11.9	0.65	15.41	347.9	1.23	0.650	0.015	2.37	0.3479
11.91	0.64	15.03	347.54	1.23	0.640	0.015	2.35	0.34754
11.92	0.64	15.03	347.54	1.23	0.640	0.015	2.35	0.34754
11.93	0.64	15.03	347.54	1.23	0.640	0.015	2.35	0.34754
11.94	0.66	13.22	442.24	1.23	0.660	0.013	2.00	0.44224
11.95	0.66	13.22	442.24	1.23	0.660	0.013	2.00	0.44224
11.96	0.68	12.77	445.4	1.23	0.680	0.013	1.88	0.4454
11.97	0.69	12.74	446.84	1.23	0.690	0.013	1.85	0.44684

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.98	0.69	12.71	446.93	1.23	0.690	0.013	1.84	0.44693
11.99	0.7	12.58	449.9	1.23	0.700	0.013	1.80	0.4499
12	0.73	12.42	452.96	1.23	0.730	0.012	1.70	0.45296
12.01	0.75	12.36	455.58	1.17	0.750	0.012	1.65	0.45558
12.02	0.77	12.71	457.29	1.17	0.770	0.013	1.65	0.45729
12.03	0.78	13.03	453.87	1.17	0.780	0.013	1.67	0.45387
12.04	0.79	13.34	453.05	1.17	0.790	0.013	1.69	0.45305
12.05	0.79	13.66	453.05	1.17	0.790	0.014	1.73	0.45305
12.06	0.8	13.73	452.42	1.17	0.800	0.014	1.72	0.45242
12.07	0.8	13.6	450.17	1.17	0.800	0.014	1.70	0.45017
12.08	0.8	13.79	448.19	1.17	0.800	0.014	1.72	0.44819
12.09	0.8	14.01	446.84	1.17	0.800	0.014	1.75	0.44684
12.1	0.79	14.14	445.22	1.17	0.790	0.014	1.79	0.44522
12.11	0.79	14.17	444.04	1.17	0.790	0.014	1.79	0.44404
12.12	0.78	14.24	443.5	1.17	0.780	0.014	1.83	0.4435
12.13	0.79	14.17	443.95	1.17	0.790	0.014	1.79	0.44395
12.14	0.79	14.11	442.78	1.17	0.790	0.014	1.79	0.44278
12.15	0.8	14.08	440.98	1.17	0.800	0.014	1.76	0.44098
12.16	0.79	14.27	437.29	1.17	0.790	0.014	1.81	0.43729
12.17	0.79	14.14	436.29	1.17	0.790	0.014	1.79	0.43629
12.18	0.79	14.3	435.48	1.17	0.790	0.014	1.81	0.43548
12.19	0.79	14.62	434.58	1.17	0.790	0.015	1.85	0.43458
12.2	0.78	14.87	433.41	1.17	0.780	0.015	1.91	0.43341
12.21	0.78	15.03	433.68	1.17	0.780	0.015	1.93	0.43368
12.22	0.78	14.97	434.04	1.17	0.780	0.015	1.92	0.43404
12.23	0.78	14.55	432.96	1.17	0.780	0.015	1.87	0.43296
12.24	0.78	14.27	432.69	1.17	0.780	0.014	1.83	0.43269
12.25	0.79	14.36	434.31	1.17	0.790	0.014	1.82	0.43431
12.26	0.79	14.52	435.3	1.17	0.790	0.015	1.84	0.4353
12.27	0.8	14.71	436.75	1.17	0.800	0.015	1.84	0.43675
12.28	0.8	15.06	439.81	1.17	0.800	0.015	1.88	0.43981
12.29	0.8	15.16	442.15	1.17	0.800	0.015	1.90	0.44215
12.3	0.8	14.94	444.58	1.17	0.800	0.015	1.87	0.44458
12.31	0.79	14.74	435.39	1.17	0.790	0.015	1.87	0.43539
12.32	0.79	14.39	440.17	1.17	0.790	0.014	1.82	0.44017
12.33	0.78	14.11	442.69	1.17	0.780	0.014	1.81	0.44269
12.34	0.78	13.76	443.59	1.17	0.780	0.014	1.76	0.44359
12.35	0.79	13.31	442.78	1.17	0.790	0.013	1.68	0.44278
12.36	0.79	13.25	441.79	1.17	0.790	0.013	1.68	0.44179
12.37	0.8	13.53	440.89	1.17	0.800	0.014	1.69	0.44089
12.38	0.8	13.82	439.18	1.17	0.800	0.014	1.73	0.43918
12.39	0.8	14.08	437.2	1.17	0.800	0.014	1.76	0.4372
12.4	0.8	14.39	436.02	1.17	0.800	0.014	1.80	0.43602
12.41	0.8	14.84	436.11	1.17	0.800	0.015	1.86	0.43611
12.42	0.81	15.19	438.46	1.17	0.810	0.015	1.88	0.43846
12.43	0.82	15.67	441.88	1.17	0.820	0.016	1.91	0.44188
12.44	0.83	16.18	446.39	1.17	0.830	0.016	1.95	0.44639
12.45	0.85	16.62	451.52	1.17	0.850	0.017	1.96	0.45152
12.46	0.88	17.32	460.17	1.17	0.880	0.017	1.97	0.46017
12.47	0.89	17.83	466.21	1.17	0.890	0.018	2.00	0.46621
12.48	0.9	18.41	471.44	1.17	0.900	0.018	2.05	0.47144
12.49	0.91	18.95	476.03	1.11	0.910	0.019	2.08	0.47603
12.5	0.92	19.33	481.53	1.17	0.920	0.019	2.10	0.48153
12.51	0.96	19.3	460.44	1.17	0.960	0.019	2.01	0.46044
12.52	0.95	19.46	426.65	1.11	0.950	0.019	2.05	0.42665
12.53	0.95	19.55	465.22	1.11	0.950	0.020	2.06	0.46522
12.54	0.96	19.68	476.03	1.11	0.960	0.020	2.05	0.47603

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
12.55	0.95	19.87	473.06	1.11	0.950	0.020	2.09	0.47306
12.56	0.94	19.97	466.84	1.11	0.940	0.020	2.12	0.46684
12.57	0.93	20.29	441.61	1.11	0.930	0.020	2.18	0.44161
12.58	0.92	20.8	440.71	1.11	0.920	0.021	2.26	0.44071
12.59	0.92	21.11	455.04	1.11	0.920	0.021	2.29	0.45504
12.6	0.91	21.43	401.15	1.11	0.910	0.021	2.35	0.40115
12.61	0.88	21.88	412.78	1.11	0.880	0.022	2.49	0.41278
12.62	0.87	22.1	419.81	1.11	0.870	0.022	2.54	0.41981
12.63	0.86	22.48	431.97	1.11	0.860	0.022	2.61	0.43197
12.64	0.86	23.25	427.28	1.11	0.860	0.023	2.70	0.42728
12.65	0.86	23.25	429.99	1.11	0.860	0.023	2.70	0.42999
12.66	0.88	22.99	427.82	1.11	0.880	0.023	2.61	0.42782
12.67	0.88	23.31	431.7	1.11	0.880	0.023	2.65	0.4317
12.68	0.88	23.66	435.39	1.11	0.880	0.024	2.69	0.43539
12.69	0.88	24.17	437.2	1.11	0.880	0.024	2.75	0.4372
12.7	0.88	24.36	435.48	1.11	0.880	0.024	2.77	0.43548
12.71	0.88	24.2	435.75	1.11	0.880	0.024	2.75	0.43575
12.72	0.88	24.43	439.63	1.11	0.880	0.024	2.78	0.43963
12.73	0.88	24.71	442.69	1.11	0.880	0.025	2.81	0.44269
12.74	0.9	25.29	450.89	1.11	0.900	0.025	2.81	0.45089
12.75	0.9	25.09	449.72	1.11	0.900	0.025	2.79	0.44972
12.76	0.9	24.71	432.42	1.11	0.900	0.025	2.75	0.43242
12.77	0.89	24.23	410.52	1.11	0.890	0.024	2.72	0.41052
12.78	0.89	24.65	365.47	1.11	0.890	0.025	2.77	0.36547
12.79	0.86	24.97	276.9	1.11	0.860	0.025	2.90	0.2769
12.8	0.83	25.25	318.62	1.11	0.830	0.025	3.04	0.31862
12.81	0.81	25.25	384.84	1.11	0.810	0.025	3.12	0.38484
12.82	0.81	24.84	407.1	1.11	0.810	0.025	3.07	0.4071
12.83	0.8	24.33	414.4	1.11	0.800	0.024	3.04	0.4144
12.84	0.8	24.3	415.48	1.11	0.800	0.024	3.04	0.41548
12.85	0.79	24.01	415.21	1.11	0.790	0.024	3.04	0.41521
12.86	0.79	23.57	414.22	1.11	0.790	0.024	2.98	0.41422
12.87	0.79	23.38	413.14	1.11	0.790	0.023	2.96	0.41314
12.88	0.79	23.57	412.33	1.11	0.790	0.024	2.98	0.41233
12.89	0.78	23.88	410.88	1.11	0.780	0.024	3.06	0.41088
12.9	0.78	24.49	410.52	1.11	0.780	0.024	3.14	0.41052
12.91	0.78	24.71	409.35	1.05	0.780	0.025	3.17	0.40935
12.92	0.78	24.71	409.35	1.05	0.780	0.025	3.17	0.40935
12.93	0.78	24.71	409.35	1.05	0.780	0.025	3.17	0.40935
12.94	0.77	27.32	412.96	1.11	0.770	0.027	3.55	0.41296
12.95	0.77	27.58	412.69	1.11	0.770	0.028	3.58	0.41269
12.96	0.77	27.9	413.86	1.11	0.770	0.028	3.62	0.41386
12.97	0.77	28.09	415.39	1.11	0.770	0.028	3.65	0.41539
12.98	0.77	28.18	416.74	1.05	0.770	0.028	3.66	0.41674
12.99	0.77	27.74	415.93	1.05	0.770	0.028	3.60	0.41593
13	0.77	27.39	416.38	1.05	0.770	0.027	3.56	0.41638
13.01	0.78	26.88	416.38	1.05	0.780	0.027	3.45	0.41638
13.02	0.78	26.5	417.73	1.05	0.780	0.027	3.40	0.41773
13.03	0.79	26.53	419.72	1.05	0.790	0.027	3.36	0.41972
13.04	0.79	26.81	420.89	1.05	0.790	0.027	3.39	0.42089
13.05	0.79	26.81	420.62	1.05	0.790	0.027	3.39	0.42062
13.06	0.78	26.59	421.97	1.05	0.780	0.027	3.41	0.42197
13.07	0.78	25.92	421.97	1.05	0.780	0.026	3.32	0.42197
13.08	0.79	25.06	421.52	1.05	0.790	0.025	3.17	0.42152
13.09	0.79	24.49	418.45	1.05	0.790	0.024	3.10	0.41845
13.1	0.78	24.2	415.57	1.05	0.780	0.024	3.10	0.41557
13.11	0.78	24.2	413.41	1.05	0.780	0.024	3.10	0.41341

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.12	0.77	24.39	411.97	1.05	0.770	0.024	3.17	0.41197
13.13	0.77	24.9	412.69	1.05	0.770	0.025	3.23	0.41269
13.14	0.77	25.13	413.05	1.05	0.770	0.025	3.26	0.41305
13.15	0.77	25.09	413.41	1.05	0.770	0.025	3.26	0.41341
13.16	0.78	24.78	413.59	1.05	0.780	0.025	3.18	0.41359
13.17	0.77	24.65	414.49	1.05	0.770	0.025	3.20	0.41449
13.18	0.78	24.49	415.84	1.05	0.780	0.024	3.14	0.41584
13.19	0.78	24.27	416.11	1.05	0.780	0.024	3.11	0.41611
13.2	0.78	24.08	415.39	1.05	0.780	0.024	3.09	0.41539
13.21	0.79	24.17	414.4	1.05	0.790	0.024	3.06	0.4144
13.22	0.79	24.49	413.59	1.05	0.790	0.024	3.10	0.41359
13.23	0.79	25.03	412.6	1.05	0.790	0.025	3.17	0.4126
13.24	0.78	25.57	412.87	0.99	0.780	0.026	3.28	0.41287
13.25	0.78	25.92	412.6	0.99	0.780	0.026	3.32	0.4126
13.26	0.79	26.02	413.68	0.99	0.790	0.026	3.29	0.41368
13.27	0.78	26.37	415.75	0.99	0.780	0.026	3.38	0.41575
13.28	0.78	26.62	416.47	0.99	0.780	0.027	3.41	0.41647
13.29	0.79	26.91	415.93	0.99	0.790	0.027	3.41	0.41593
13.3	0.8	26.81	416.83	0.99	0.800	0.027	3.35	0.41683
13.31	0.8	26.97	413.95	0.99	0.800	0.027	3.37	0.41395
13.32	0.8	27.42	415.3	0.99	0.800	0.027	3.43	0.4153
13.33	0.8	27.8	415.66	0.99	0.800	0.028	3.48	0.41566
13.34	0.8	28.15	415.66	0.99	0.800	0.028	3.52	0.41566
13.35	0.8	28.06	414.31	0.99	0.800	0.028	3.51	0.41431
13.36	0.8	28.18	414.22	0.99	0.800	0.028	3.52	0.41422
13.37	0.8	28.12	414.13	0.99	0.800	0.028	3.52	0.41413
13.38	0.8	27.96	415.03	0.99	0.800	0.028	3.50	0.41503
13.39	0.81	28.12	417.28	0.99	0.810	0.028	3.47	0.41728
13.4	0.81	28.41	420.17	0.99	0.810	0.028	3.51	0.42017
13.41	0.81	28.92	422.51	0.99	0.810	0.029	3.57	0.42251
13.42	0.81	29.17	426.83	0.99	0.810	0.029	3.60	0.42683
13.43	0.82	29.52	433.5	0.99	0.820	0.030	3.60	0.4335
13.44	0.83	29.33	436.93	0.99	0.830	0.029	3.53	0.43693
13.45	0.84	29.14	440.53	0.99	0.840	0.029	3.47	0.44053
13.46	0.86	28.57	439.72	0.99	0.860	0.029	3.32	0.43972
13.47	0.86	28.09	400.43	1.05	0.860	0.028	3.27	0.40043
13.48	0.85	28.06	406.65	0.99	0.850	0.028	3.30	0.40665
13.49	0.84	27.77	404.67	0.99	0.840	0.028	3.31	0.40467
13.5	0.82	27.45	377.28	1.05	0.820	0.027	3.35	0.37728
13.51	0.81	27.32	335.11	0.99	0.810	0.027	3.37	0.33511
13.52	0.8	26.66	389.53	1	0.800	0.027	3.33	0.38953
13.53	0.79	26.08	494.59	1	0.790	0.026	3.30	0.49459
13.54	0.8	24.94	476.66	1	0.800	0.025	3.12	0.47666
13.55	0.82	23.95	486.84	1	0.820	0.024	2.92	0.48684
13.56	0.85	22.96	521.99	1	0.850	0.023	2.70	0.52199
13.57	0.87	22.16	512.7	1	0.870	0.022	2.55	0.5127
13.58	0.94	21.56	516.31	1.05	0.940	0.022	2.29	0.51631
13.59	1.02	21.05	512.16	1.05	1.020	0.021	2.06	0.51216
13.6	0.99	21.37	514.42	1.05	0.990	0.021	2.16	0.51442
13.61	1	21.59	499.64	1.05	1.000	0.022	2.16	0.49964
13.62	1.05	20.83	498.65	1.05	1.050	0.021	1.98	0.49865
13.63	1.01	21.11	497.57	1.05	1.010	0.021	2.09	0.49757
13.64	0.93	22.07	479.64	1.05	0.930	0.022	2.37	0.47964
13.65	0.89	23.02	433.5	1.05	0.890	0.023	2.59	0.4335
13.66	0.84	23.57	419.81	1.05	0.840	0.024	2.81	0.41981
13.67	0.8	22.2	420.62	1.05	0.800	0.022	2.78	0.42062
13.68	0.79	21.72	389.98	1.05	0.790	0.022	2.75	0.38998

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.69	0.79	21.81	432.42	1.05	0.790	0.022	2.76	0.43242
13.7	0.79	22.1	441.7	1.1	0.790	0.022	2.80	0.4417
13.71	0.77	22.26	451.43	1.05	0.770	0.022	2.89	0.45143
13.72	0.77	22.16	456.03	1.1	0.770	0.022	2.88	0.45603
13.73	0.78	22.04	459.72	1.05	0.780	0.022	2.83	0.45972
13.74	0.8	21.88	458.55	1.05	0.800	0.022	2.74	0.45855
13.75	0.79	21.94	337.18	1.1	0.790	0.022	2.78	0.33718
13.76	0.76	22.93	373.76	1.1	0.760	0.023	3.02	0.37376
13.77	0.76	23.02	393.04	1.1	0.760	0.023	3.03	0.39304
13.78	0.76	22.71	396.02	1.1	0.760	0.023	2.99	0.39602
13.79	0.75	23.15	400.34	1.1	0.750	0.023	3.09	0.40034
13.8	0.75	23.44	402.05	1.1	0.750	0.023	3.13	0.40205
13.81	0.75	23.57	402.96	1.1	0.750	0.024	3.14	0.40296
13.82	0.75	23.25	405.21	1.1	0.750	0.023	3.10	0.40521
13.83	0.75	23.18	408.09	1.1	0.750	0.023	3.09	0.40809
13.84	0.76	23.18	410.88	1.06	0.760	0.023	3.05	0.41088
13.85	0.76	23.28	411.07	1.1	0.760	0.023	3.06	0.41107
13.86	0.77	23.6	414.58	1.06	0.770	0.024	3.06	0.41458
13.87	0.77	24.36	416.11	1.1	0.770	0.024	3.16	0.41611
13.88	0.77	24.94	415.57	1.06	0.770	0.025	3.24	0.41557
13.89	0.78	25.06	417.28	1.06	0.780	0.025	3.21	0.41728
13.9	0.78	25.67	422.33	1.06	0.780	0.026	3.29	0.42233
13.91	0.78	25.67	422.33	1.06	0.780	0.026	3.29	0.42233
13.92	0.78	25.67	422.33	1.06	0.780	0.026	3.29	0.42233
13.93	0.81	30	453.6	1.06	0.810	0.030	3.70	0.4536
13.94	0.82	30.51	458.91	1.1	0.820	0.031	3.72	0.45891
13.95	0.83	30.8	462.43	1.1	0.830	0.031	3.71	0.46243
13.96	0.84	31.11	461.79	1.1	0.840	0.031	3.70	0.46179
13.97	0.86	31.3	462.52	1.1	0.860	0.031	3.64	0.46252
13.98	0.87	31.62	464.5	1.1	0.870	0.032	3.63	0.4645
13.99	0.88	31.94	463.96	1.1	0.880	0.032	3.63	0.46396
14	0.9	31.81	462.34	1.1	0.900	0.032	3.53	0.46234
14.01	0.91	32.16	452.69	1.1	0.910	0.032	3.53	0.45269
14.02	0.92	32.93	455.13	1.1	0.920	0.033	3.58	0.45513
14.03	0.92	34.04	463.06	1.1	0.920	0.034	3.70	0.46306
14.04	0.92	35.09	472.79	1.1	0.920	0.035	3.81	0.47279
14.05	0.93	35.7	475.67	1.1	0.930	0.036	3.84	0.47567
14.06	0.94	36.43	480.81	1.1	0.940	0.036	3.88	0.48081
14.07	0.94	37.45	482.52	1.1	0.940	0.037	3.98	0.48252
14.08	0.94	38.34	490.99	1.1	0.940	0.038	4.08	0.49099
14.09	0.95	39.2	490.54	1.1	0.950	0.039	4.13	0.49054
14.1	0.95	40.48	487.48	1.1	0.950	0.040	4.26	0.48748
14.11	0.96	42.2	483.24	1.1	0.960	0.042	4.40	0.48324
14.12	0.96	43.6	479.55	1.1	0.960	0.044	4.54	0.47955
14.13	0.96	45.41	480.36	1.1	0.960	0.045	4.73	0.48036
14.14	0.96	47.55	485.31	1.1	0.960	0.048	4.95	0.48531
14.15	0.96	49.36	490.27	1.1	0.960	0.049	5.14	0.49027
14.16	0.96	50.09	494.41	1.1	0.960	0.050	5.22	0.49441
14.17	0.96	50.48	496.67	1.1	0.960	0.050	5.26	0.49667
14.18	0.96	50.57	496.94	1.1	0.960	0.051	5.27	0.49694
14.19	0.96	51.18	498.2	1.1	0.960	0.051	5.33	0.4982
14.2	0.97	51.24	496.49	1.1	0.970	0.051	5.28	0.49649
14.21	0.98	50.6	492.25	1.1	0.980	0.051	5.16	0.49225
14.22	0.98	50.25	490.54	1.1	0.980	0.050	5.13	0.49054
14.23	0.99	50.41	489.37	1.1	0.990	0.050	5.09	0.48937
14.24	1	50.76	487.75	1.1	1.000	0.051	5.08	0.48775
14.25	1.01	51.18	486.48	1.1	1.010	0.051	5.07	0.48648

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.26	1.01	52.39	486.84	1.1	1.010	0.052	5.19	0.48684
14.27	0.99	54.17	494.77	1.1	0.990	0.054	5.47	0.49477
14.28	0.99	53.79	495.4	1.1	0.990	0.054	5.43	0.4954
14.29	0.99	54.04	496.85	1.1	0.990	0.054	5.46	0.49685
14.3	0.99	54.43	503.33	1.1	0.990	0.054	5.50	0.50333
14.31	0.99	54.74	507.21	1.06	0.990	0.055	5.53	0.50721
14.32	0.99	54.74	507.21	1.06	0.990	0.055	5.53	0.50721
14.33	1	54.84	510.27	1.06	1.000	0.055	5.48	0.51027
14.34	1.01	55.06	511.53	1.06	1.010	0.055	5.45	0.51153
14.35	1.02	55.35	512.52	1.06	1.020	0.055	5.43	0.51252
14.36	1.03	55.76	514.33	1.06	1.030	0.056	5.41	0.51433
14.37	1.04	57.26	516.58	1.06	1.040	0.057	5.51	0.51658
14.38	1.04	58.25	517.57	1.06	1.040	0.058	5.60	0.51757
14.39	1.04	58.69	517.48	1.06	1.040	0.059	5.64	0.51748
14.4	1.06	59.07	515.32	1.06	1.060	0.059	5.57	0.51532
14.41	1.08	59.01	512.61	1.06	1.080	0.059	5.46	0.51261
14.42	1.08	58.57	511.8	1.06	1.080	0.059	5.42	0.5118
14.43	1.09	58.57	514.42	1.06	1.090	0.059	5.37	0.51442
14.44	1.09	58.82	513.79	1.06	1.090	0.059	5.40	0.51379
14.45	1.09	58.88	514.15	1.06	1.090	0.059	5.40	0.51415
14.46	1.08	59.27	514.33	1.06	1.080	0.059	5.49	0.51433
14.47	1.08	59.39	512.25	1.06	1.080	0.059	5.50	0.51225
14.48	1.08	59.27	510.09	1.06	1.080	0.059	5.49	0.51009
14.49	1.08	59.2	510.72	1.06	1.080	0.059	5.48	0.51072
14.5	1.08	60.09	369.98	1.06	1.080	0.060	5.56	0.36998
14.51	1.06	60.67	392.23	1.06	1.060	0.061	5.72	0.39223
14.52	1.06	61.18	422.06	1.06	1.060	0.061	5.77	0.42206
14.53	1.07	61.08	434.04	1.06	1.070	0.061	5.71	0.43404
14.54	1.08	61.34	457.74	1.06	1.080	0.061	5.68	0.45774
14.55	1.08	61.43	480.09	1.11	1.080	0.061	5.69	0.48009
14.56	1.09	61.56	489.55	1.07	1.090	0.062	5.65	0.48955
14.57	1.09	61.3	487.11	1.06	1.090	0.061	5.62	0.48711
14.58	1.1	60.92	485.85	1.11	1.100	0.061	5.54	0.48585
14.59	1.11	60.41	484.05	1.07	1.110	0.060	5.44	0.48405
14.6	1.12	59.68	484.32	1.07	1.120	0.060	5.33	0.48432
14.61	1.14	59.11	486.93	1.07	1.140	0.059	5.19	0.48693
14.62	1.16	58.37	492.61	1.07	1.160	0.058	5.03	0.49261
14.63	1.16	58.57	497.93	1.07	1.160	0.059	5.05	0.49793
14.64	1.17	58.66	505.95	1.07	1.170	0.059	5.01	0.50595
14.65	1.19	58.95	510.99	1.07	1.190	0.059	4.95	0.51099
14.66	1.2	59.27	517.39	1.07	1.200	0.059	4.94	0.51739
14.67	1.2	59.33	522.89	1.07	1.200	0.059	4.94	0.52289
14.68	1.2	59.81	536.85	1.07	1.200	0.060	4.98	0.53685
14.69	1.22	60.22	535.23	1.07	1.220	0.060	4.94	0.53523
14.7	1.23	60.13	541.45	1.07	1.230	0.060	4.89	0.54145
14.71	1.25	60	542.8	1.07	1.250	0.060	4.80	0.5428
14.72	1.27	60.89	545.5	1.07	1.270	0.061	4.79	0.5455
14.73	1.29	61.37	542.98	1.07	1.290	0.061	4.76	0.54298
14.74	1.31	61.78	545.23	1.07	1.310	0.062	4.72	0.54523
14.75	1.31	62	561.54	1.07	1.310	0.062	4.73	0.56154
14.76	1.3	62.45	561.81	1.07	1.300	0.062	4.80	0.56181
14.77	1.29	62.32	541.63	1.07	1.290	0.062	4.83	0.54163
14.78	1.29	62.35	535.95	1.07	1.290	0.062	4.83	0.53595
14.79	1.29	61.11	524.24	1.07	1.290	0.061	4.74	0.52424
14.8	1.29	60.22	516.67	1.07	1.290	0.060	4.67	0.51667
14.81	1.31	59.62	514.78	1.07	1.310	0.060	4.55	0.51478
14.82	1.29	59.81	511.53	1.04	1.290	0.060	4.64	0.51153

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.83	1.26	60.51	498.56	1.04	1.260	0.061	4.80	0.49856
14.84	1.23	61.18	488.29	1.04	1.230	0.061	4.97	0.48829
14.85	1.21	62.1	486.03	1.04	1.210	0.062	5.13	0.48603
14.86	1.22	62.55	471.44	1.04	1.220	0.063	5.13	0.47144
14.87	1.16	62.71	491.8	1.04	1.160	0.063	5.41	0.4918
14.88	1.12	62.74	496.22	1.04	1.120	0.063	5.60	0.49622
14.89	1.11	62.1	506.04	1.04	1.110	0.062	5.59	0.50604
14.9	1.11	62.1	506.04	1.04	1.110	0.062	5.59	0.50604
14.91	1.11	62.1	506.04	1.04	1.110	0.062	5.59	0.50604
14.92	1.11	62.1	506.04	1.04	1.110	0.062	5.59	0.50604
14.93	1.09	54.14	497.39	1.04	1.090	0.054	4.97	0.49739
14.94	1.1	52.67	511.08	1.04	1.100	0.053	4.79	0.51108
14.95	1.09	50.76	514.06	1.04	1.090	0.051	4.66	0.51406
14.96	1.08	48.63	514.78	1.04	1.080	0.049	4.50	0.51478
14.97	1.06	46.21	515.14	1.04	1.060	0.046	4.36	0.51514
14.98	1.06	43.53	496.67	1.04	1.060	0.044	4.11	0.49667
14.99	1.05	41.72	498.29	1.04	1.050	0.042	3.97	0.49829
15	1.04	39.33	473.69	1.04	1.040	0.039	3.78	0.47369
15.01	1.03	36.3	474.23	1.04	1.030	0.036	3.52	0.47423
15.02	1.03	34.01	452.06	1.04	1.030	0.034	3.30	0.45206
15.03	1.05	31.75	461.25	1.04	1.050	0.032	3.02	0.46125
15.04	1.02	31.15	400.97	1.04	1.020	0.031	3.05	0.40097
15.05	1	30.54	456.3	1.04	1.000	0.031	3.05	0.4563
15.06	0.98	29.59	490.81	1.04	0.980	0.030	3.02	0.49081
15.07	0.99	28.41	508.83	1.04	0.990	0.028	2.87	0.50883
15.08	0.99	27.45	514.6	1.01	0.990	0.027	2.77	0.5146
15.09	1	27.48	538.84	1.04	1.000	0.027	2.75	0.53884
15.1	0.99	28.28	553.52	1.01	0.990	0.028	2.86	0.55352
15.11	0.99	28.44	573.08	1.07	0.990	0.028	2.87	0.57308
15.12	1.05	27.74	295.37	1.07	1.050	0.028	2.64	0.29537
15.13	1.07	26.59	394.49	1.07	1.070	0.027	2.49	0.39449
15.14	1.11	26.43	493.33	1.07	1.110	0.026	2.38	0.49333
15.15	1.12	26.3	519.19	1.07	1.120	0.026	2.35	0.51919
15.16	1.13	26.21	508.02	1.07	1.130	0.026	2.32	0.50802
15.17	1.22	25.06	508.38	1.07	1.220	0.025	2.05	0.50838
15.18	1.22	23.63	397.1	1.07	1.220	0.024	1.94	0.3971
15.19	1.18	22.52	384.48	1.1	1.180	0.023	1.91	0.38448
15.2	1.14	21.24	388.54	1.07	1.140	0.021	1.86	0.38854
15.21	1.07	19.9	455.76	1.07	1.070	0.020	1.86	0.45576
15.22	1	18.5	488.29	1.07	1.000	0.019	1.85	0.48829
15.23	0.96	16.85	543.34	1.07	0.960	0.017	1.76	0.54334
15.24	0.92	14.65	537.93	1.07	0.920	0.015	1.59	0.53793
15.25	0.89	13.09	544.15	1.07	0.890	0.013	1.47	0.54415
15.26	0.87	11.78	540.91	1.07	0.870	0.012	1.35	0.54091
15.27	0.86	11.5	518.11	1.07	0.860	0.012	1.34	0.51811
15.28	0.82	10.67	512.34	1.07	0.820	0.011	1.30	0.51234
15.29	0.82	9.94	515.59	1.07	0.820	0.010	1.21	0.51559
15.3	0.83	9.17	522.89	1.07	0.830	0.009	1.10	0.52289
15.31	0.86	8.76	509.19	1.07	0.860	0.009	1.02	0.50919
15.32	0.88	8.31	502.79	1.07	0.880	0.008	0.94	0.50279
15.33	0.9	7.96	458.28	1.07	0.900	0.008	0.88	0.45828
15.34	0.91	7.8	350.15	1.07	0.910	0.008	0.86	0.35015
15.35	0.91	7.52	368.08	1.07	0.910	0.008	0.83	0.36808
15.36	0.9	7.23	403.95	1.07	0.900	0.007	0.80	0.40395
15.37	0.89	7.32	438.28	1.07	0.890	0.007	0.82	0.43828
15.38	0.89	6.94	467.92	1.07	0.890	0.007	0.78	0.46792
15.39	0.9	6.62	478.1	1.07	0.900	0.007	0.74	0.4781

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.4	0.93	6.08	490.09	1.07	0.930	0.006	0.65	0.49009
15.41	0.97	5.7	500.18	1.07	0.970	0.006	0.59	0.50018
15.42	1	5.57	509.37	1.07	1.000	0.006	0.56	0.50937
15.43	1.04	5.22	521.99	1.07	1.040	0.005	0.50	0.52199
15.44	1.1	4.68	536.04	1.07	1.100	0.005	0.43	0.53604
15.45	1.18	4.59	554.24	1.07	1.180	0.005	0.39	0.55424
15.46	1.28	4.49	579.47	1.07	1.280	0.004	0.35	0.57947
15.47	1.46	4.17	578.48	1.07	1.460	0.004	0.29	0.57848
15.48	1.63	4.24	541.72	1.07	1.630	0.004	0.26	0.54172
15.49	1.82	4.62	498.02	1.07	1.820	0.005	0.25	0.49802
15.5	2.01	5.06	426.65	1.07	2.010	0.005	0.25	0.42665
15.51	2.22	6.27	389.17	1.07	2.220	0.006	0.28	0.38917
15.52	2.45	7.2	354.48	1.07	2.450	0.007	0.29	0.35448
15.53	2.72	8.28	318.62	1.07	2.720	0.008	0.30	0.31862
15.54	3.05	9.74	294.74	1.07	3.050	0.010	0.32	0.29474
15.55	3.4	11.59	268.61	1.07	3.400	0.012	0.34	0.26861
15.56	3.75	13.79	235.36	1.05	3.750	0.014	0.37	0.23536
15.57	4.14	16.97	203.73	1.07	4.140	0.017	0.41	0.20373
15.58	4.55	19.49	163.54	1.07	4.550	0.019	0.43	0.16354
15.59	4.86	22.39	122.09	1.07	4.860	0.022	0.46	0.12209
15.6	5.04	25.41	92.09	1.07	5.040	0.025	0.50	0.09209
15.61	5.04	27.74	69.29	1.07	5.040	0.028	0.55	0.06929
15.62	4.95	28.98	53.61	1.07	4.950	0.029	0.59	0.05361
15.63	4.81	28.66	46.31	1.07	4.810	0.029	0.60	0.04631
15.64	4.67	27.52	48.93	1.07	4.670	0.028	0.59	0.04893
15.65	4.49	25.92	54.33	1.07	4.490	0.026	0.58	0.05433
15.66	4.3	24.23	55.78	1.07	4.300	0.024	0.56	0.05578
15.67	4.22	24.04	57.13	1.07	4.220	0.024	0.57	0.05713
15.68	4.16	26.02	58.39	1.07	4.160	0.026	0.63	0.05839
15.69	4.1	30.89	59.56	1.05	4.100	0.031	0.75	0.05956
15.7	4.05	35.35	60.55	1.07	4.050	0.035	0.87	0.06055
15.71	3.98	37.93	61.72	1.07	3.980	0.038	0.95	0.06172
15.72	3.87	40.03	62.8	1.05	3.870	0.040	1.03	0.0628
15.73	3.8	40.73	63.71	1.05	3.800	0.041	1.07	0.06371
15.74	3.73	40.92	64.97	1.11	3.730	0.041	1.10	0.06497
15.75	3.64	41.88	66.05	1.11	3.640	0.042	1.15	0.06605
15.76	3.56	42.13	66.95	1.11	3.560	0.042	1.18	0.06695
15.77	3.39	45.79	69.29	1.05	3.390	0.046	1.35	0.06929
15.78	3.34	43.92	70.28	1.05	3.340	0.044	1.31	0.07028
15.79	3.32	43.37	71.54	1.07	3.320	0.043	1.31	0.07154
15.8	3.37	46.62	73.08	1.14	3.370	0.047	1.38	0.07308
15.81	3.44	50.51	74.79	1.07	3.440	0.051	1.47	0.07479
15.82	3.56	53.79	77.49	1.07	3.560	0.054	1.51	0.07749
15.83	3.82	57.23	79.56	1.05	3.820	0.057	1.50	0.07956
15.84	4	57.48	78.57	1.05	4.000	0.057	1.44	0.07857
15.85	4.16	58.37	76.5	1.05	4.160	0.058	1.40	0.0765
15.86	4.3	57.77	52.26	1.05	4.300	0.058	1.34	0.05226
15.87	4.4	55.41	39.65	1.05	4.400	0.055	1.26	0.03965
15.88	4.44	54.36	33.61	1.05	4.440	0.054	1.22	0.03361
15.89	4.48	47.42	27.93	1.05	4.480	0.047	1.06	0.02793
15.9	4.52	39.9	25.68	1.05	4.520	0.040	0.88	0.02568
15.91	4.52	39.9	25.68	1.05	4.520	0.040	0.88	0.02568
15.92	4.52	39.9	25.68	1.05	4.520	0.040	0.88	0.02568
15.93	4.61	30.29	41.27	1.05	4.610	0.030	0.66	0.04127
15.94	4.6	30.54	37.84	1.05	4.600	0.031	0.66	0.03784
15.95	4.57	31.34	31.63	1.05	4.570	0.031	0.69	0.03163
15.96	4.51	31.75	-26.49	1.05	4.510	0.032	0.70	-0.02649

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.97	4.44	33.12	-39.74	1.05	4.440	0.033	0.75	-0.03974
15.98	4.39	34.14	-38.11	1.11	4.390	0.034	0.78	-0.03811
15.99	4.32	36.08	-37.12	1.05	4.320	0.036	0.84	-0.03712
16	4.27	40.95	-36.31	1.11	4.270	0.041	0.96	-0.03631
16.01	4.24	45.54	-35.59	1.05	4.240	0.046	1.07	-0.03559
16.02	4.17	49.14	-35.05	1.11	4.170	0.049	1.18	-0.03505
16.03	4.1	52.86	-34.33	1.05	4.100	0.053	1.29	-0.03433
16.04	4.03	57.74	-33.88	1.05	4.030	0.058	1.43	-0.03388
16.05	3.99	58.69	-33.43	1.1	3.990	0.059	1.47	-0.03343
16.06	4.03	58.69	-32.8	1.11	4.030	0.059	1.46	-0.0328
16.07	4.04	58.25	-32.17	1.11	4.040	0.058	1.44	-0.03217
16.08	4.15	59.04	-31.45	1.1	4.150	0.059	1.42	-0.03145
16.09	4.4	60.25	-30.37	1.05	4.400	0.060	1.37	-0.03037
16.1	4.76	63.53	-29.19	1.03	4.760	0.064	1.33	-0.02919
16.11	5.19	68.12	-27.84	1.03	5.190	0.068	1.31	-0.02784
16.12	5.63	72.93	-26.58	1.05	5.630	0.073	1.30	-0.02658
16.13	6.01	73.44	-25.41	1.03	6.010	0.073	1.22	-0.02541
16.14	6.39	71.24	-24.06	1.03	6.390	0.071	1.11	-0.02406
16.15	6.15	70.16	-24.06	1.03	6.150	0.070	1.14	-0.02406
16.16	5.75	64.01	-24.51	1.03	5.750	0.064	1.11	-0.02451
16.17	5.09	53.18	-25.23	1.03	5.090	0.053	1.04	-0.02523
16.18	4.35	40.29	-26.13	1.03	4.350	0.040	0.93	-0.02613
16.19	3.81	32.55	-26.76	1.03	3.810	0.033	0.85	-0.02676
16.2	3.38	34.3	-27.03	1.03	3.380	0.034	1.01	-0.02703
16.21	2.99	42.61	-27.3	1.03	2.990	0.043	1.43	-0.0273
16.22	2.74	54.93	-26.94	1.03	2.740	0.055	2.00	-0.02694
16.23	2.58	60.83	-26.58	1.03	2.580	0.061	2.36	-0.02658
16.24	2.46	66.21	-25.59	1.03	2.460	0.066	2.69	-0.02559
16.25	2.28	68.56	-23.16	1.03	2.280	0.069	3.01	-0.02316
16.26	2.14	70.38	-13.97	1.03	2.140	0.070	3.29	-0.01397
16.27	2.11	71.37	458.28	1.03	2.110	0.071	3.38	0.45828
16.28	2.02	71.37	528.47	1.03	2.020	0.071	3.53	0.52847
16.29	1.96	70	546.95	1.03	1.960	0.070	3.57	0.54695
16.3	1.89	67.23	562.35	1.03	1.890	0.067	3.56	0.56235
16.31	1.82	65.63	681.56	1.03	1.820	0.066	3.61	0.68156
16.32	1.76	64.23	658.41	1.03	1.760	0.064	3.65	0.65841
16.33	1.75	62.51	625.34	1.03	1.750	0.063	3.57	0.62534
16.34	1.75	58.98	711.3	1.03	1.750	0.059	3.37	0.7113
16.35	1.74	57.2	783.38	1.03	1.740	0.057	3.29	0.78338
16.36	1.71	53.76	783.38	1.03	1.710	0.054	3.14	0.78338
16.37	1.7	49.81	776.9	1.03	1.700	0.050	2.93	0.7769
16.38	1.7	46.34	767.08	1.03	1.700	0.046	2.73	0.76708
16.39	1.7	44.08	749.41	1.03	1.700	0.044	2.59	0.74941
16.4	1.7	41.91	757.61	1.01	1.700	0.042	2.47	0.75761
16.41	1.73	37.99	676.34	1.03	1.730	0.038	2.20	0.67634
16.42	1.78	33.63	629.57	1.01	1.780	0.034	1.89	0.62957
16.43	1.84	31.53	642.1	1.01	1.840	0.032	1.71	0.6421
16.44	1.95	33.47	579.47	1.03	1.950	0.033	1.72	0.57947
16.45	2.07	35.6	425.84	1.03	2.070	0.036	1.72	0.42584
16.46	2.23	35.54	403.59	1.03	2.230	0.036	1.59	0.40359
16.47	2.14	39.65	295.37	1.01	2.140	0.040	1.85	0.29537
16.48	2.36	40.51	57.94	1.01	2.360	0.041	1.72	0.05794
16.49	2.31	38.02	104.97	1.01	2.310	0.038	1.65	0.10497
16.5	1.98	45.03	93.62	1.01	1.980	0.045	2.27	0.09362
16.51	1.75	54.49	77.4	1.01	1.750	0.054	3.11	0.0774
16.52	1.52	55.92	120.83	1.01	1.520	0.056	3.68	0.12083
16.53	1.44	56.91	87.22	1.01	1.440	0.057	3.95	0.08722

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
16.54	1.39	55.73	73.26	1.01	1.390	0.056	4.01	0.07326
16.55	1.35	58.09	65.15	1.01	1.350	0.058	4.30	0.06515
16.56	1.29	58.88	65.6	0.94	1.290	0.059	4.56	0.0656
16.57	1.22	62	77.22	1.01	1.220	0.062	5.08	0.07722
16.58	1.1	69.42	84.07	0.94	1.100	0.069	6.31	0.08407
16.59	1.05	73.98	99.39	0.94	1.050	0.074	7.05	0.09939
16.6	1.01	76.78	102.99	0.94	1.010	0.077	7.60	0.10299
16.61	0.97	76.46	113.89	0.94	0.970	0.076	7.88	0.11389
16.62	0.92	80.44	115.97	0.94	0.920	0.080	8.74	0.11597
16.63	0.89	76.84	125.34	0.94	0.890	0.077	8.63	0.12534
16.64	0.86	72.29	162.46	0.94	0.860	0.072	8.41	0.16246
16.65	0.83	67.48	222.47	0.94	0.830	0.067	8.13	0.22247
16.66	0.81	63.98	269.42	0.94	0.810	0.064	7.90	0.26942
16.67	0.81	61.14	323.75	0.94	0.810	0.061	7.55	0.32375
16.68	0.81	57.61	345.47	0.94	0.810	0.058	7.11	0.34547
16.69	0.81	53.57	358.98	0.94	0.810	0.054	6.61	0.35898
16.7	0.83	48.31	372.95	0.94	0.830	0.048	5.82	0.37295
16.71	0.85	43.02	383.67	0.94	0.850	0.043	5.06	0.38367
16.72	0.86	37.58	392.05	0.94	0.860	0.038	4.37	0.39205
16.73	0.88	32.77	397.55	0.94	0.880	0.033	3.72	0.39755
16.74	0.9	29.14	406.47	0.94	0.900	0.029	3.24	0.40647
16.75	0.92	26.75	418.45	0.94	0.920	0.027	2.91	0.41845
16.76	0.94	24.59	426.83	0.94	0.940	0.025	2.62	0.42683
16.77	0.97	22.67	431.88	0.94	0.970	0.023	2.34	0.43188
16.78	0.98	20.76	436.66	0.94	0.980	0.021	2.12	0.43666
16.79	1	18.92	440.62	0.94	1.000	0.019	1.89	0.44062
16.8	1.02	17.99	445.4	0.94	1.020	0.018	1.76	0.4454
16.81	1.04	17.61	449.09	0.94	1.040	0.018	1.69	0.44909
16.82	1.05	17.64	452.51	0.94	1.050	0.018	1.68	0.45251
16.83	1.08	17.74	450.53	0.94	1.080	0.018	1.64	0.45053
16.84	1.08	18.02	443.59	0.94	1.080	0.018	1.67	0.44359
16.85	1.09	18.47	441.34	0.94	1.090	0.018	1.69	0.44134
16.86	1.09	18.82	436.75	0.94	1.090	0.019	1.73	0.43675
16.87	1.08	19.49	422.96	0.94	1.080	0.019	1.80	0.42296
16.88	1.07	20.25	414.85	0.94	1.070	0.020	1.89	0.41485
16.89	1.06	20.99	410.07	0.94	1.060	0.021	1.98	0.41007
16.9	1.05	22.1	404.94	0.94	1.050	0.022	2.10	0.40494
16.91	1.05	22.1	404.94	0.94	1.050	0.022	2.10	0.40494
16.92	1.05	22.1	404.94	0.94	1.050	0.022	2.10	0.40494
16.93	1.08	23.63	446.57	0.93	1.080	0.024	2.19	0.44657
16.94	1.08	24.71	452.06	0.93	1.080	0.025	2.29	0.45206
16.95	1.07	26.15	452.78	0.93	1.070	0.026	2.44	0.45278
16.96	1.06	27.26	458.19	0.93	1.060	0.027	2.57	0.45819
16.97	1.05	28.02	464.14	0.93	1.050	0.028	2.67	0.46414
16.98	1.05	28.85	471.26	0.93	1.050	0.029	2.75	0.47126
16.99	1.05	28.95	472.88	0.93	1.050	0.029	2.76	0.47288
17	1.06	28.69	475.13	0.93	1.060	0.029	2.71	0.47513
17.01	1.06	28.09	474.32	0.93	1.060	0.028	2.65	0.47432
17.02	1.08	27.29	470.99	0.93	1.080	0.027	2.53	0.47099
17.03	1.08	26.97	457.74	0.93	1.080	0.027	2.50	0.45774
17.04	1.08	27.1	449.18	0.93	1.080	0.027	2.51	0.44918
17.05	1.08	26.69	450.62	0.93	1.080	0.027	2.47	0.45062
17.06	1.08	26.34	452.69	0.93	1.080	0.026	2.44	0.45269
17.07	1.08	26.05	454.41	0.93	1.080	0.026	2.41	0.45441
17.08	1.09	25.22	455.4	0.93	1.090	0.025	2.31	0.4554
17.09	1.09	24.78	455.94	0.93	1.090	0.025	2.27	0.45594
17.1	1.06	24.14	451.43	0.93	1.060	0.024	2.28	0.45143

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.11	1.06	23.41	443.41	0.93	1.060	0.023	2.21	0.44341
17.12	1.06	23.02	435.75	0.93	1.060	0.023	2.17	0.43575
17.13	1.05	22.77	305.19	0.93	1.050	0.023	2.17	0.30519
17.14	1.04	22.83	360.97	0.93	1.040	0.023	2.20	0.36097
17.15	1.07	22.9	376.82	0.93	1.070	0.023	2.14	0.37682
17.16	1.12	22.74	301.32	0.93	1.120	0.023	2.03	0.30132
17.17	1.09	23.85	296.09	0.93	1.090	0.024	2.19	0.29609
17.18	1.03	23.57	325.82	0.93	1.030	0.024	2.29	0.32582
17.19	1.03	22.93	342.31	0.93	1.030	0.023	2.23	0.34231
17.2	1.03	22.61	350.69	0.93	1.030	0.023	2.20	0.35069
17.21	1.03	22.61	357	0.93	1.030	0.023	2.20	0.357
17.22	1.02	22.55	360.43	0.93	1.020	0.023	2.21	0.36043
17.23	1.01	22.32	362.32	0.93	1.010	0.022	2.21	0.36232
17.24	1	22.2	367.99	0.93	1.000	0.022	2.22	0.36799
17.25	1	21.43	374.57	0.93	1.000	0.021	2.14	0.37457
17.26	0.99	20.89	379.35	0.93	0.990	0.021	2.11	0.37935
17.27	0.98	20.83	380.97	0.93	0.980	0.021	2.13	0.38097
17.28	0.98	20.6	383.85	0.93	0.980	0.021	2.10	0.38385
17.29	0.98	20.09	387.73	0.93	0.980	0.020	2.05	0.38773
17.3	0.98	19.97	391.15	0.93	0.980	0.020	2.04	0.39115
17.31	0.98	19.97	393.4	0.93	0.980	0.020	2.04	0.3934
17.32	0.98	19.49	393.31	0.93	0.980	0.019	1.99	0.39331
17.33	0.99	18.95	401.6	0.93	0.990	0.019	1.91	0.4016
17.34	0.99	18.34	404.76	0.93	0.990	0.018	1.85	0.40476
17.35	0.99	18.12	407.91	0.93	0.990	0.018	1.83	0.40791
17.36	0.99	17.9	415.03	1	0.990	0.018	1.81	0.41503
17.37	1	17.52	423.41	1	1.000	0.018	1.75	0.42341
17.38	1.01	16.97	434.22	1	1.010	0.017	1.68	0.43422
17.39	1.03	16.66	444.4	1	1.030	0.017	1.62	0.4444
17.4	1.05	16.18	452.33	1	1.050	0.016	1.54	0.45233
17.41	1.06	16.05	460.35	1	1.060	0.016	1.51	0.46035
17.42	1.11	15.38	482.34	1	1.110	0.015	1.39	0.48234
17.43	1.16	15.22	493.33	1	1.160	0.015	1.31	0.49333
17.44	1.21	15.35	496.94	1	1.210	0.015	1.27	0.49694
17.45	1.24	15.99	514.06	1	1.240	0.016	1.29	0.51406
17.46	1.27	17.1	526.67	1	1.270	0.017	1.35	0.52667
17.47	1.31	17.29	531.45	1	1.310	0.017	1.32	0.53145
17.48	1.36	17.87	535.95	1	1.360	0.018	1.31	0.53595
17.49	1.39	18.15	509.37	1	1.390	0.018	1.31	0.50937
17.5	1.44	18.06	515.77	1	1.440	0.018	1.25	0.51577
17.51	1.49	18.02	519.91	1	1.490	0.018	1.21	0.51991
17.52	1.51	18.88	519.1	1	1.510	0.019	1.25	0.5191
17.53	1.52	20.64	506.04	1	1.520	0.021	1.36	0.50604
17.54	1.52	22.1	466.48	1	1.520	0.022	1.45	0.46648
17.55	1.56	23.41	403.23	1	1.560	0.023	1.50	0.40323
17.56	1.56	24.39	390.7	1	1.560	0.024	1.56	0.3907
17.57	1.58	26.34	409.35	1	1.580	0.026	1.67	0.40935
17.58	1.58	28.31	414.85	1	1.580	0.028	1.79	0.41485
17.59	1.57	30.41	417.46	1	1.570	0.030	1.94	0.41746
17.6	1.56	31.91	410.52	1	1.560	0.032	2.05	0.41052
17.61	1.54	33.6	412.51	1	1.540	0.034	2.18	0.41251
17.62	1.53	35.44	409.08	1	1.530	0.035	2.32	0.40908
17.63	1.51	36.59	408	1	1.510	0.037	2.42	0.408
17.64	1.5	38.41	398.36	1	1.500	0.038	2.56	0.39836
17.65	1.49	39.97	391.24	1	1.490	0.040	2.68	0.39124
17.66	1.47	41.56	371.96	1	1.470	0.042	2.83	0.37196
17.67	1.45	42.77	390.61	1	1.450	0.043	2.95	0.39061

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.68	1.44	43.66	393.85	1	1.440	0.044	3.03	0.39385
17.69	1.42	44.23	385.56	1	1.420	0.044	3.11	0.38556
17.7	1.4	45.19	358.26	1	1.400	0.045	3.23	0.35826
17.71	1.4	45.09	401.15	1	1.400	0.045	3.22	0.40115
17.72	1.39	45.76	404.13	1	1.390	0.046	3.29	0.40413
17.73	1.38	46.08	413.77	1	1.380	0.046	3.34	0.41377
17.74	1.41	46.15	406.92	1	1.410	0.046	3.27	0.40692
17.75	1.45	45.7	423.59	1	1.450	0.046	3.15	0.42359
17.76	1.47	45.83	432.78	1	1.470	0.046	3.12	0.43278
17.77	1.51	46.4	439.18	1	1.510	0.046	3.07	0.43918
17.78	1.54	46.97	463.42	1	1.540	0.047	3.05	0.46342
17.79	1.6	47.07	483.24	1	1.600	0.047	2.94	0.48324
17.8	1.68	46.5	476.57	1	1.680	0.047	2.77	0.47657
17.81	1.74	45.95	465.22	1	1.740	0.046	2.64	0.46522
17.82	1.78	46.97	448.82	1	1.780	0.047	2.64	0.44882
17.83	1.83	47.16	389.89	1	1.830	0.047	2.58	0.38989
17.84	1.85	46.43	409.62	1	1.850	0.046	2.51	0.40962
17.85	1.86	47.83	390.61	1	1.860	0.048	2.57	0.39061
17.86	1.86	48.41	382.77	1	1.860	0.048	2.60	0.38277
17.87	1.85	50.76	374.48	1	1.850	0.051	2.74	0.37448
17.88	1.82	52.32	348.17	1	1.820	0.052	2.87	0.34817
17.89	2.01	54.3	308.43	1	2.010	0.054	2.70	0.30843
17.9	1.76	55.89	109.3	1	1.760	0.056	3.18	0.1093
17.91	1.76	55.89	109.3	1	1.760	0.056	3.18	0.1093
17.92	1.76	55.89	109.3	1	1.760	0.056	3.18	0.1093
17.93	1.78	71.81	182.65	1	1.780	0.072	4.03	0.18265
17.94	1.72	74.27	201.48	1	1.720	0.074	4.32	0.20148
17.95	1.69	77.29	219.5	1	1.690	0.077	4.57	0.2195
17.96	1.67	81.33	247.34	1	1.670	0.081	4.87	0.24734
17.97	1.66	86.33	307.17	1	1.660	0.086	5.20	0.30717
17.98	1.64	89.65	338.71	1	1.640	0.090	5.47	0.33871
17.99	1.6	91.11	344.93	1	1.600	0.091	5.69	0.34493
18	1.53	93.05	366.55	1	1.530	0.093	6.08	0.36655
18.01	1.47	92.48	369.8	1	1.470	0.092	6.29	0.3698
18.02	1.42	89.52	377	1	1.420	0.090	6.30	0.377
18.03	1.4	79.36	425.21	1	1.400	0.079	5.67	0.42521
18.04	1.44	76.46	458.37	1	1.440	0.076	5.31	0.45837
18.05	1.49	72.99	495.67	1	1.490	0.073	4.90	0.49567
18.06	1.57	69.52	567.67	1	1.570	0.070	4.43	0.56767
18.07	1.72	64.33	632.01	1	1.720	0.064	3.74	0.63201
18.08	1.97	58.69	695.89	1	1.970	0.059	2.98	0.69589
18.09	2.26	53.41	701.21	1	2.260	0.053	2.36	0.70121
18.1	2.5	49.97	566.23	1.07	2.500	0.050	2.00	0.56623
18.11	2.79	46.37	355.38	1.07	2.790	0.046	1.66	0.35538
18.12	3.02	44.46	160.12	1.07	3.020	0.044	1.47	0.16012
18.13	3.16	46.46	78.48	1.07	3.160	0.046	1.47	0.07848
18.14	3.23	49.93	53.16	1	3.230	0.050	1.55	0.05316
18.15	3.25	54.33	34.42	1	3.250	0.054	1.67	0.03442
18.16	3.26	56.34	32.53	1	3.260	0.056	1.73	0.03253
18.17	3.28	59.11	49.47	1	3.280	0.059	1.80	0.04947
18.18	3.36	64.46	37.93	1	3.360	0.064	1.92	0.03793
18.19	3.42	65.41	33.97	1	3.420	0.065	1.91	0.03397
18.2	3.14	68.79	17.84	1	3.140	0.069	2.19	0.01784
18.21	2.97	66.75	16.4	1	2.970	0.067	2.25	0.0164
18.22	2.88	64.39	30.19	1.01	2.880	0.064	2.24	0.03019
18.23	2.82	61.81	50.19	1.01	2.820	0.062	2.19	0.05019
18.24	2.75	60.83	69.83	1.01	2.750	0.061	2.21	0.06983

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.25	2.72	62.71	86.32	1.01	2.720	0.063	2.31	0.08632
18.26	2.76	62.71	102	1.01	2.760	0.063	2.27	0.102
18.27	2.83	61.72	108.85	1.01	2.830	0.062	2.18	0.10885
18.28	2.62	62.99	108.58	1.01	2.620	0.063	2.40	0.10858
18.29	2.47	66.27	104.97	1.01	2.470	0.066	2.68	0.10497
18.3	2.56	67.2	108.58	1.01	2.560	0.067	2.63	0.10858
18.31	2.37	66.59	105.87	1.01	2.370	0.067	2.81	0.10587
18.32	2.29	70.57	120.65	1.01	2.290	0.071	3.08	0.12065
18.33	2.08	71.81	139.66	1.01	2.080	0.072	3.45	0.13966
18.34	1.93	71.14	167.69	1.01	1.930	0.071	3.69	0.16769
18.35	1.92	73.76	223.28	1.01	1.920	0.074	3.84	0.22328
18.36	1.84	72.83	332.31	1.01	1.840	0.073	3.96	0.33231
18.37	1.88	72.42	531.99	1.01	1.880	0.072	3.85	0.53199
18.38	1.94	68.28	580.92	1.01	1.940	0.068	3.52	0.58092
18.39	2.06	64.42	602.09	1.01	2.060	0.064	3.13	0.60209
18.4	1.95	59.23	558.93	1.01	1.950	0.059	3.04	0.55893
18.41	1.96	59.27	626.33	1.01	1.960	0.059	3.02	0.62633
18.42	2.15	53.25	675.08	1.01	2.150	0.053	2.48	0.67508
18.43	2.18	48.41	683.19	1.01	2.180	0.048	2.22	0.68319
18.44	2.23	47.86	701.48	1.01	2.230	0.048	2.15	0.70148
18.45	2.28	46.85	683.37	1.01	2.280	0.047	2.05	0.68337
18.46	2.35	45	654.08	1.08	2.350	0.045	1.91	0.65408
18.47	2.22	45.64	161.74	1.08	2.220	0.046	2.06	0.16174
18.48	2.16	46.3	625.07	1.08	2.160	0.046	2.14	0.62507
18.49	2.2	50.09	635.7	1.03	2.200	0.050	2.28	0.6357
18.5	2.31	49.55	466.93	1.03	2.310	0.050	2.15	0.46693
18.51	2.2	52.51	469.09	1.03	2.200	0.053	2.39	0.46909
18.52	2.23	55.03	567.22	1.01	2.230	0.055	2.47	0.56722
18.53	2.27	57.42	574.25	1.1	2.270	0.057	2.53	0.57425
18.54	2.24	68.5	594.52	1.03	2.240	0.069	3.06	0.59452
18.55	2.26	70.38	600.56	1.03	2.260	0.070	3.11	0.60056
18.56	2.3	70.79	599.48	1.03	2.300	0.071	3.08	0.59948
18.57	2.31	72.74	593.53	1.03	2.310	0.073	3.15	0.59353
18.58	2.28	73.56	591.91	1.03	2.280	0.074	3.23	0.59191
18.59	2.25	78.09	592.18	1.03	2.250	0.078	3.47	0.59218
18.6	2.23	82.99	594.79	1.03	2.230	0.083	3.72	0.59479
18.61	2.26	82.8	583.8	1.03	2.260	0.083	3.66	0.5838
18.62	2.27	78.02	574.07	1.03	2.270	0.078	3.44	0.57407
18.63	2.23	80.67	565.51	1.03	2.230	0.081	3.62	0.56551
18.64	2.19	84.04	555.24	1.03	2.190	0.084	3.84	0.55524
18.65	2.15	85.92	542.8	1.03	2.150	0.086	4.00	0.5428
18.66	2.11	87.07	530.91	1.03	2.110	0.087	4.13	0.53091
18.67	2.08	87.61	522.17	1.03	2.080	0.088	4.21	0.52217
18.68	2	90.63	501.17	1.03	2.000	0.091	4.53	0.50117
18.69	1.97	93.5	491.62	1.03	1.970	0.094	4.75	0.49162
18.7	1.94	95.19	480.72	1.03	1.940	0.095	4.91	0.48072
18.71	1.92	94.49	472.25	1.03	1.920	0.094	4.92	0.47225
18.72	1.9	94.65	462.16	1.03	1.900	0.095	4.98	0.46216
18.73	1.87	94.93	454.23	1.03	1.870	0.095	5.08	0.45423
18.74	1.85	97.23	451.88	1.03	1.850	0.097	5.26	0.45188
18.75	1.85	99.14	448.73	1.03	1.850	0.099	5.36	0.44873
18.76	1.83	100.16	450.71	1.03	1.830	0.100	5.47	0.45071
18.77	1.84	99.77	453.05	1.03	1.840	0.100	5.42	0.45305
18.78	1.85	99.23	453.14	1.03	1.850	0.099	5.36	0.45314
18.79	1.85	99.55	452.24	1.03	1.850	0.100	5.38	0.45224
18.8	1.84	99.61	453.42	1.03	1.840	0.100	5.41	0.45342
18.81	1.83	99.42	455.04	1.03	1.830	0.099	5.43	0.45504

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.82	1.84	98.63	460.17	0.96	1.840	0.099	5.36	0.46017
18.83	1.83	98.69	460.71	0.96	1.830	0.099	5.39	0.46071
18.84	1.83	98.69	460.71	0.96	1.830	0.099	5.39	0.46071
18.85	1.86	97.04	464.68	0.96	1.860	0.097	5.22	0.46468
18.86	1.89	94.9	465.85	1.03	1.890	0.095	5.02	0.46585
18.87	1.91	92.1	458.73	1.03	1.910	0.092	4.82	0.45873
18.88	1.89	89.93	447.65	1.03	1.890	0.090	4.76	0.44765
18.89	1.86	87.32	430.89	1.03	1.860	0.087	4.69	0.43089
18.9	1.79	84.97	414.58	1.03	1.790	0.085	4.75	0.41458
18.91	1.79	84.97	414.58	1.03	1.790	0.085	4.75	0.41458
18.92	1.79	84.97	414.58	1.03	1.790	0.085	4.75	0.41458
18.93	1.7	74.17	526.67	1.03	1.700	0.074	4.36	0.52667
18.94	1.62	75.22	533.97	1.03	1.620	0.075	4.64	0.53397
18.95	1.52	73.56	550.1	1.03	1.520	0.074	4.84	0.5501
18.96	1.49	70.19	554.69	1.03	1.490	0.070	4.71	0.55469
18.97	1.48	66.37	561.54	1.03	1.480	0.066	4.48	0.56154
18.98	1.48	61.53	570.37	1.03	1.480	0.062	4.16	0.57037
18.99	1.48	56.37	578.84	1.03	1.480	0.056	3.81	0.57884
19	1.48	51.91	585.78	1.03	1.480	0.052	3.51	0.58578
19.01	1.49	47.23	593.71	1.03	1.490	0.047	3.17	0.59371
19.02	1.5	43.22	603.71	1.03	1.500	0.043	2.88	0.60371
19.03	1.52	38.37	613.26	1.03	1.520	0.038	2.52	0.61326
19.04	1.54	34.62	620.47	1.03	1.540	0.035	2.25	0.62047
19.05	1.56	32.39	621.55	1.03	1.560	0.032	2.08	0.62155
19.06	1.56	30.57	620.74	1.03	1.560	0.031	1.96	0.62074
19.07	1.55	28.5	621.37	1.03	1.550	0.029	1.84	0.62137
19.08	1.54	25.13	622.09	1.03	1.540	0.025	1.63	0.62209
19.09	1.53	24.04	625.61	1.05	1.530	0.024	1.57	0.62561
19.1	1.52	22.01	626.33	1.05	1.520	0.022	1.45	0.62633
19.11	1.53	20.8	621.91	1.11	1.530	0.021	1.36	0.62191
19.12	1.52	20.13	618.31	1.11	1.520	0.020	1.32	0.61831
19.13	1.51	19.9	620.29	1.11	1.510	0.020	1.32	0.62029
19.14	1.51	19.71	621.64	1.05	1.510	0.020	1.31	0.62164
19.15	1.5	19.27	619.93	1.11	1.500	0.019	1.28	0.61993
19.16	1.5	19.33	619.48	1.05	1.500	0.019	1.29	0.61948
19.17	1.5	19.78	617.86	1.11	1.500	0.020	1.32	0.61786
19.18	1.49	19.97	615.88	1.05	1.490	0.020	1.34	0.61588
19.19	1.48	19.55	613.08	1.11	1.480	0.020	1.32	0.61308
19.2	1.45	19.17	601.91	1.11	1.450	0.019	1.32	0.60191
19.21	1.44	19.46	600.02	1.11	1.440	0.019	1.35	0.60002
19.22	1.43	19.84	597.04	1.11	1.430	0.020	1.39	0.59704
19.23	1.42	20.22	594.88	1.11	1.420	0.020	1.42	0.59488
19.24	1.41	20.51	591.55	1.11	1.410	0.021	1.45	0.59155
19.25	1.4	21.11	592	1.11	1.400	0.021	1.51	0.592
19.26	1.4	21.43	595.24	1.14	1.400	0.021	1.53	0.59524
19.27	1.4	21.5	599.3	1.11	1.400	0.022	1.54	0.5993
19.28	1.41	21.46	603.44	1.11	1.410	0.021	1.52	0.60344
19.29	1.41	21.85	605.51	1.11	1.410	0.022	1.55	0.60551
19.3	1.4	22.64	604.88	1.14	1.400	0.023	1.62	0.60488
19.31	1.39	23.47	600.29	1.14	1.390	0.023	1.69	0.60029
19.32	1.39	24.14	600.38	1.14	1.390	0.024	1.74	0.60038
19.33	1.39	24.84	600.92	1.14	1.390	0.025	1.79	0.60092
19.34	1.4	25.45	602.99	1.14	1.400	0.025	1.82	0.60299
19.35	1.39	25.83	603.17	1.14	1.390	0.026	1.86	0.60317
19.36	1.4	26.08	602.27	1.14	1.400	0.026	1.86	0.60227
19.37	1.4	26.53	601.73	1.14	1.400	0.027	1.90	0.60173
19.38	1.4	27.07	598.49	1.14	1.400	0.027	1.93	0.59849

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 03

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
19.39	1.38	27.93	592.45	1.14	1.380	0.028	2.02	0.59245
19.4	1.37	28.37	586.23	1.14	1.370	0.028	2.07	0.58623
19.41	1.36	28.69	579.11	1.14	1.360	0.029	2.11	0.57911
19.42	1.33	29.84	569.74	1.14	1.330	0.030	2.24	0.56974
19.43	1.31	29.71	562.08	1.14	1.310	0.030	2.27	0.56208
19.44	1.29	30.38	555.42	1.14	1.290	0.030	2.36	0.55542
19.45	1.27	31.05	559.56	1.14	1.270	0.031	2.44	0.55956
19.46	1.27	31.05	571.99	1.14	1.270	0.031	2.44	0.57199
19.47	1.29	30.6	581.55	1.14	1.290	0.031	2.37	0.58155
19.48	1.3	29.94	587.67	1.14	1.300	0.030	2.30	0.58767
19.49	1.32	29.49	592.81	1.14	1.320	0.029	2.23	0.59281
19.5	1.33	29.01	596.68	1.14	1.330	0.029	2.18	0.59668
19.51	1.36	28.37	600.38	1.14	1.360	0.028	2.09	0.60038
19.52	1.42	28.57	595.42	1.14	1.420	0.029	2.01	0.59542
19.53	1.4	29.74	587.49	1.14	1.400	0.030	2.12	0.58749
19.54	1.39	30.83	582.99	1.14	1.390	0.031	2.22	0.58299
19.55	1.38	31.81	580.19	1.14	1.380	0.032	2.31	0.58019
19.56	1.37	32.64	577.31	1.14	1.370	0.033	2.38	0.57731
19.57	1.35	33.28	574.61	1.14	1.350	0.033	2.47	0.57461
19.58	1.33	34.04	567.85	1.14	1.330	0.034	2.56	0.56785
19.59	1.29	34.08	561.81	1.14	1.290	0.034	2.64	0.56181
19.6	1.26	33.57	560.91	1.14	1.260	0.034	2.66	0.56091
19.61	1.25	33.12	559.74	1.14	1.250	0.033	2.65	0.55974
19.62	1.23	32.8	562.44	1.14	1.230	0.033	2.67	0.56244
19.63	1.26	31.97	594.88	1.14	1.260	0.032	2.54	0.59488
19.64	1.3	31.4	619.39	1.14	1.300	0.031	2.42	0.61939
19.65	1.37	30.54	647.77	1.14	1.370	0.031	2.23	0.64777
19.66	1.46	29.9	676.07	1.17	1.460	0.030	2.05	0.67607
19.67	1.57	29.2	714.54	1.14	1.570	0.029	1.86	0.71454
19.68	1.74	28.5	763.83	1.14	1.740	0.029	1.64	0.76383
19.69	1.98	28.6	813.03	1.14	1.980	0.029	1.44	0.81303
19.7	2.26	29.23	867.63	1.14	2.260	0.029	1.29	0.86763
19.71	2.56	29.52	893.85	1.17	2.560	0.030	1.15	0.89385
19.72	2.88	29.3	549.38	1.14	2.880	0.029	1.02	0.54938
19.73	3.2	30.13	246.17	1.17	3.200	0.030	0.94	0.24617
19.74	3.84	33.31	95.15	1.17	3.840	0.033	0.87	0.09515
19.75	3.92	38.47	95.96	1.17	3.920	0.038	0.98	0.09596
19.76	3.75	39.87	79.11	1.17	3.750	0.040	1.06	0.07911
19.77	3.37	40.64	57.67	1.17	3.370	0.041	1.21	0.05767
19.78	3.1	40.54	43.52	1.17	3.100	0.041	1.31	0.04352
19.79	2.94	39.36	29.55	1.17	2.940	0.039	1.34	0.02955
19.8	2.79	40.44	37.75	1.17	2.790	0.040	1.45	0.03775
19.81	2.6	43.85	72.09	1.17	2.600	0.044	1.69	0.07209
19.82	2.43	45.83	107.32	1.17	2.430	0.046	1.89	0.10732
19.83	2.33	50.03	135.97	1.17	2.330	0.050	2.15	0.13597
19.84	2.24	60.7	213.28	1.17	2.240	0.061	2.71	0.21328
19.85	2.44	58.12	257.16	1.17	2.440	0.058	2.38	0.25716
19.86	2.72	54.87	296.27	1.17	2.720	0.055	2.02	0.29627
19.87	2.98	54.93	330.42	1.17	2.980	0.055	1.84	0.33042
19.88	3.31	56.08	355.11	1.23	3.310	0.056	1.69	0.35511
19.89	3.66	57.71	360.61	1.17	3.660	0.058	1.58	0.36061
19.9	3.91	60.54	294.92	1.17	3.910	0.061	1.55	0.29492
19.91	4.11	64.97	265.72	1.17	4.110	0.065	1.58	0.26572
19.92	4.34	74.52	242.21	1.23	4.340	0.075	1.72	0.24221
19.93	4.36	79.07	222.2	1.23	4.360	0.079	1.81	0.2222
19.94	4.38	83.69	222.74	1.23	4.380	0.084	1.91	0.22274
19.95	4.35	85.36	220.41	1.23	4.350	0.085	1.96	0.22041

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 03		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	**MPa**	**KPa**	**KPa**	**°**	**MPa**	**MPa**	**%**	
19.96	4.84	85.87	220.12	1.23	4.840	0.086	1.77	0.22012
19.97	4.68	87.59	217.35	1.23	4.680	0.088	1.87	0.21735
19.98	4.41	88.41	217.03	1.23	4.410	0.088	2.00	0.21703
19.99	4.46	86.75	215.36	1.23	4.460	0.087	1.95	0.21536
20	4.75	86.95	210.52	1.23	4.750	0.087	1.83	0.21052

PROVA PENETROMETRICA STATICA

secondo Raccomandazioni AGI (1977)

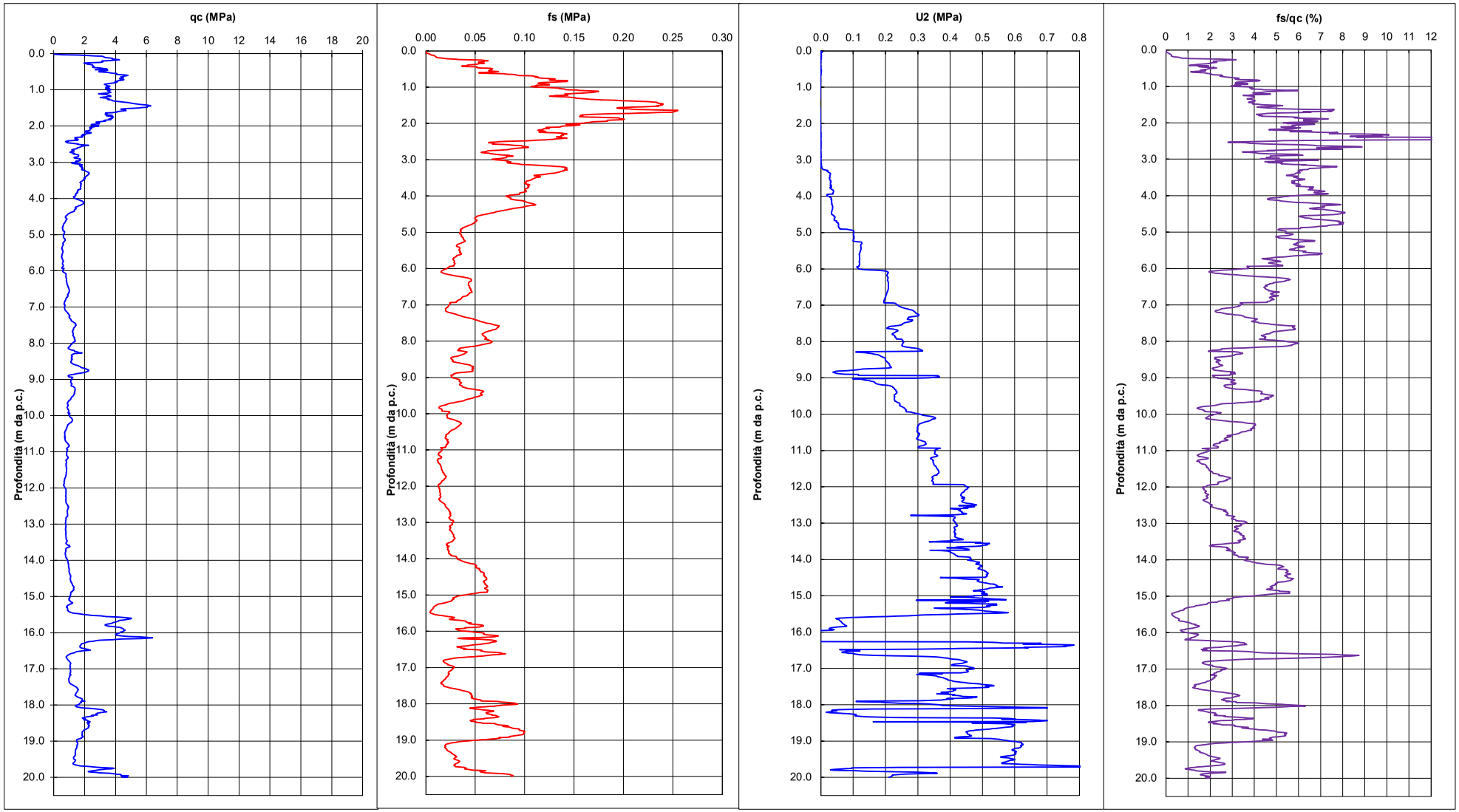
	Data giu-21		COMM. 000-20	PAG. 1	DI 1

Committente	**TERNA**						
Cantiere	**Poggio Renatico**						
N° Prova	**CPTU 03**	Data prova	**24/06/2021**	Operatore	G.A.		

Punta N.	MKJ542	Quota p.c.:	0.00	m.s.l.m.	Coordinate	**E** 0.00	**N** 0.00
Preforo	0.00 m	Livello H_2O	0.00	m da p.c.	Profondità finale	20.00 m da p.c.	

NOTE

COMMITTENTE: ERM - ENI



COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.01	0	0.03	0.18	2.53	0.000	0.000	#DIV/0!	0.00018
0.02	0	0.03	0.18	2.53	0.000	0.000	#DIV/0!	0.00018
0.03	0	0.03	0.18	2.53	0.000	0.000	#DIV/0!	0.00018
0.04	0.01	0.03	0.36	2.39	0.010	0.000	0.30	0.00036
0.05	0.16	0.03	5.23	2.37	0.160	0.000	0.02	0.00523
0.06	1.29	0.03	13.61	2.51	1.290	0.000	0.00	0.01361
0.07	3.46	0.03	5.59	2.57	3.460	0.000	0.00	0.00559
0.08	2.73	0.99	2.88	2.56	2.730	0.001	0.04	0.00288
0.09	2.79	2.26	3.96	2.56	2.790	0.002	0.08	0.00396
0.1	4.1	6.88	3.87	2.56	4.100	0.007	0.17	0.00387
0.11	4.48	8.98	3.87	2.56	4.480	0.009	0.20	0.00387
0.12	4.25	8.31	3.51	2.56	4.250	0.008	0.20	0.00351
0.13	3.98	7.01	3.42	2.56	3.980	0.007	0.18	0.00342
0.14	3.8	12.99	3.42	2.49	3.800	0.013	0.34	0.00342
0.15	3.9	21.78	3.51	2.49	3.900	0.022	0.56	0.00351
0.16	4.02	22.48	3.51	2.49	4.020	0.022	0.56	0.00351
0.17	4.1	18.6	3.6	2.49	4.100	0.019	0.45	0.0036
0.18	4.1	19.52	3.51	2.49	4.100	0.020	0.48	0.00351
0.19	4.21	19.84	3.42	2.49	4.210	0.020	0.47	0.00342
0.2	4.33	23.06	3.51	2.49	4.330	0.023	0.53	0.00351
0.21	4.21	29.81	3.51	2.49	4.210	0.030	0.71	0.00351
0.22	4.21	29.81	3.51	2.49	4.210	0.030	0.71	0.00351
0.23	4.14	31.78	3.33	2.46	4.140	0.032	0.77	0.00333
0.24	4.08	35.67	3.24	2.46	4.080	0.036	0.87	0.00324
0.25	4.11	37.29	3.15	2.46	4.110	0.037	0.91	0.00315
0.26	4.03	40.51	3.15	2.46	4.030	0.041	1.01	0.00315
0.27	3.91	40.83	2.97	2.46	3.910	0.041	1.04	0.00297
0.28	3.91	42.61	3.15	2.46	3.910	0.043	1.09	0.00315
0.29	3.88	45.22	3.06	2.46	3.880	0.045	1.17	0.00306
0.3	3.83	43.98	3.06	2.44	3.830	0.044	1.15	0.00306
0.31	3.83	45.19	3.33	2.44	3.830	0.045	1.18	0.00333
0.32	3.93	51.37	3.42	2.36	3.930	0.051	1.31	0.00342
0.33	3.96	51.11	3.33	2.36	3.960	0.051	1.29	0.00333
0.34	3.85	53.69	3.24	2.36	3.850	0.054	1.39	0.00324
0.35	3.91	57.74	3.33	2.36	3.910	0.058	1.48	0.00333
0.36	4.08	56.85	3.42	2.36	4.080	0.057	1.39	0.00342
0.37	4.2	53.72	3.42	2.36	4.200	0.054	1.28	0.00342
0.38	4.22	52.2	3.33	2.36	4.220	0.052	1.24	0.00333
0.39	4.17	54.43	3.15	2.36	4.170	0.054	1.31	0.00315
0.4	4.22	51.56	3.15	2.29	4.220	0.052	1.22	0.00315
0.41	4.22	51.88	3.15	2.36	4.220	0.052	1.23	0.00315
0.42	4.16	52.83	3.06	2.36	4.160	0.053	1.27	0.00306
0.43	4.05	58.15	2.97	2.27	4.050	0.058	1.44	0.00297
0.44	4.08	59.23	3.06	2.29	4.080	0.059	1.45	0.00306
0.45	4.22	57.83	3.15	2.29	4.220	0.058	1.37	0.00315
0.46	4.4	58.41	3.33	2.27	4.400	0.058	1.33	0.00333
0.47	4.47	58.79	3.24	2.27	4.470	0.059	1.32	0.00324
0.48	3.83	63.56	2.88	2.29	3.830	0.064	1.66	0.00288
0.49	3.88	71.37	2.88	2.29	3.880	0.071	1.84	0.00288
0.5	4.1	70.86	3.06	2.29	4.100	0.071	1.73	0.00306
0.51	4.35	66.14	3.15	2.29	4.350	0.066	1.52	0.00315
0.52	4.49	61.49	3.15	2.27	4.490	0.061	1.37	0.00315
0.53	4.64	61.59	3.24	2.29	4.640	0.062	1.33	0.00324
0.54	4.66	62.1	3.24	2.36	4.660	0.062	1.33	0.00324
0.55	4.48	67.16	3.06	2.36	4.480	0.067	1.50	0.00306
0.56	4.58	69.65	3.24	2.36	4.580	0.070	1.52	0.00324
0.57	4.97	66.34	3.6	2.36	4.970	0.066	1.33	0.0036

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.58	5.43	63.66	3.78	2.36	5.430	0.064	1.17	0.00378
0.59	5.1	69.33	3.33	2.36	5.100	0.069	1.36	0.00333
0.6	4.69	78.82	2.07	2.39	4.690	0.079	1.68	0.00207
0.61	5.01	77.86	2.25	2.46	5.010	0.078	1.55	0.00225
0.62	5.26	76.75	2.34	2.46	5.260	0.077	1.46	0.00234
0.63	5.32	77.8	2.25	2.46	5.320	0.078	1.46	0.00225
0.64	5.45	76.65	2.34	2.46	5.450	0.077	1.41	0.00234
0.65	5.52	75.79	2.43	2.46	5.520	0.076	1.37	0.00243
0.66	5.65	74.93	2.52	2.49	5.650	0.075	1.33	0.00252
0.67	5.56	92.74	2.25	2.49	5.560	0.093	1.67	0.00225
0.68	5.41	106.17	2.25	2.49	5.410	0.106	1.96	0.00225
0.69	5.64	112.67	1.89	2.49	5.640	0.113	2.00	0.00189
0.7	5.5	121.11	-0.72	2.49	5.500	0.121	2.20	-0.00072
0.71	5.48	123.88	-1.08	2.49	5.480	0.124	2.26	-0.00108
0.72	5.52	122.7	-0.99	2.49	5.520	0.123	2.22	-0.00099
0.73	5.56	123.21	-0.63	2.51	5.560	0.123	2.22	-0.00063
0.74	5.64	121.43	-0.72	2.51	5.640	0.121	2.15	-0.00072
0.75	5.4	123.05	-0.45	2.51	5.400	0.123	2.28	-0.00045
0.76	5.38	122.64	-0.36	2.59	5.380	0.123	2.28	-0.00036
0.77	5.59	119.61	-0.36	2.59	5.590	0.120	2.14	-0.00036
0.78	5.24	124.55	-0.45	2.59	5.240	0.125	2.38	-0.00045
0.79	4.9	132.29	-0.54	2.59	4.900	0.132	2.70	-0.00054
0.8	4.63	137.73	-0.54	2.59	4.630	0.138	2.97	-0.00054
0.81	4.76	135.7	-0.45	2.59	4.760	0.136	2.85	-0.00045
0.82	4.8	124.58	-0.63	2.59	4.800	0.125	2.60	-0.00063
0.83	4.83	116.05	-0.54	2.59	4.830	0.116	2.40	-0.00054
0.84	5.07	106.81	-0.36	2.59	5.070	0.107	2.11	-0.00036
0.85	5.07	93.79	-0.27	2.59	5.070	0.094	1.85	-0.00027
0.86	5.1	95.51	-0.18	2.68	5.100	0.096	1.87	-0.00018
0.87	5	100.44	-0.18	2.68	5.000	0.100	2.01	-0.00018
0.88	4.64	110.47	-0.36	2.68	4.640	0.110	2.38	-0.00036
0.89	4.59	115.31	-0.27	2.68	4.590	0.115	2.51	-0.00027
0.9	4.28	132.51	-0.72	2.68	4.280	0.133	3.10	-0.00072
0.91	4.28	132.51	-0.72	2.68	4.280	0.133	3.10	-0.00072
0.92	4.28	132.51	-0.72	2.68	4.280	0.133	3.10	-0.00072
0.93	4.39	117.77	1.26	2.71	4.390	0.118	2.68	0.00126
0.94	4.07	126.68	1.08	2.74	4.070	0.127	3.11	0.00108
0.95	4.03	137.1	1.26	2.74	4.030	0.137	3.40	0.00126
0.96	4.42	130.76	1.35	2.74	4.420	0.131	2.96	0.00135
0.97	4.49	131.97	1.26	2.74	4.490	0.132	2.94	0.00126
0.98	4.53	138.08	1.26	2.74	4.530	0.138	3.05	0.00126
0.99	4.6	139.77	1.35	2.74	4.600	0.140	3.04	0.00135
1	4.85	142.64	0.9	2.74	4.850	0.143	2.94	0.0009
1.01	4.83	149.55	0.99	2.74	4.830	0.150	3.10	0.00099
1.02	4.76	160.12	-1.17	2.78	4.760	0.160	3.36	-0.00117
1.03	4.9	173.15	-4.51	2.78	4.900	0.173	3.53	-0.00451
1.04	4.97	195.73	-1.26	2.78	4.970	0.196	3.94	-0.00126
1.05	4.63	213.94	-0.54	2.78	4.630	0.214	4.62	-0.00054
1.06	4.46	222.16	-0.45	2.78	4.460	0.222	4.98	-0.00045
1.07	4.4	230.85	-1.17	2.78	4.400	0.231	5.25	-0.00117
1.08	4.47	235.25	-0.81	2.78	4.470	0.235	5.26	-0.00081
1.09	4.55	225.15	-0.45	2.78	4.550	0.225	4.95	-0.00045
1.1	4.4	228.08	-0.54	2.78	4.400	0.228	5.18	-0.00054
1.11	4.31	234.04	-0.63	2.78	4.310	0.234	5.43	-0.00063
1.12	4.45	230.44	-0.45	2.78	4.450	0.230	5.18	-0.00045
1.13	4.58	219.87	-0.36	2.78	4.580	0.220	4.80	-0.00036
1.14	4.68	211.04	-0.27	2.78	4.680	0.211	4.51	-0.00027

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 04		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.15	4.75	202.16	-0.27	2.81	4.750	0.202	4.26	-0.00027
1.16	4.83	195.85	-0.27	2.81	4.830	0.196	4.05	-0.00027
1.17	4.92	186.14	-0.18	2.81	4.920	0.186	3.78	-0.00018
1.18	4.95	180.73	-0.18	2.81	4.950	0.181	3.65	-0.00018
1.19	4.91	178.15	-0.18	2.81	4.910	0.178	3.63	-0.00018
1.2	4.86	175.95	-0.18	2.81	4.860	0.176	3.62	-0.00018
1.21	4.71	174.74	-0.27	2.81	4.710	0.175	3.71	-0.00027
1.22	4.57	179.17	-0.27	2.81	4.570	0.179	3.92	-0.00027
1.23	4.61	178.02	-0.18	2.81	4.610	0.178	3.86	-0.00018
1.24	4.79	177.7	-0.18	2.81	4.790	0.178	3.71	-0.00018
1.25	4.8	182.99	-0.18	2.81	4.800	0.183	3.81	-0.00018
1.26	4.78	190.66	-0.54	2.81	4.780	0.191	3.99	-0.00054
1.27	4.95	194.29	-0.27	2.81	4.950	0.194	3.93	-0.00027
1.28	5.06	201.3	-0.09	2.88	5.060	0.201	3.98	-0.00009
1.29	5.03	219.58	-0.99	2.88	5.030	0.220	4.37	-0.00099
1.3	5.08	232.83	-3.33	2.88	5.080	0.233	4.58	-0.00333
1.31	5.22	237.06	-2.25	2.88	5.220	0.237	4.54	-0.00225
1.32	5.32	245.92	2.7	2.88	5.320	0.246	4.62	0.0027
1.33	5.44	256.78	5.23	2.88	5.440	0.257	4.72	0.00523
1.34	5.54	266.77	6.67	2.88	5.540	0.267	4.82	0.00667
1.35	5.68	277.6	-4.87	2.88	5.680	0.278	4.89	-0.00487
1.36	5.86	283.75	-8.83	2.88	5.860	0.284	4.84	-0.00883
1.37	6.01	293.33	-4.78	2.88	6.010	0.293	4.88	-0.00478
1.38	6.14	305.15	-4.42	2.88	6.140	0.305	4.97	-0.00442
1.39	6.38	313.14	-7.93	2.88	6.380	0.313	4.91	-0.00793
1.4	6.5	330.44	-4.05	2.88	6.500	0.330	5.08	-0.00405
1.41	6.55	339.54	-4.96	2.88	6.550	0.340	5.18	-0.00496
1.42	6.56	343.87	-2.97	2.88	6.560	0.344	5.24	-0.00297
1.43	6.51	348.65	-0.54	2.88	6.510	0.349	5.36	-0.00054
1.44	6.38	356.52	-1.17	2.88	6.380	0.357	5.59	-0.00117
1.45	6.4	355.59	-3.6	2.91	6.400	0.356	5.56	-0.0036
1.46	6.4	350.79	-4.6	2.88	6.400	0.351	5.48	-0.0046
1.47	6.27	349.13	-3.51	2.91	6.270	0.349	5.57	-0.00351
1.48	5.74	353.01	-3.06	2.88	5.740	0.353	6.15	-0.00306
1.49	5.47	353.21	-2.34	2.81	5.470	0.353	6.46	-0.00234
1.5	5.23	355.66	-4.51	2.88	5.230	0.356	6.80	-0.00451
1.51	5.07	357.73	-4.33	2.88	5.070	0.358	7.06	-0.00433
1.52	4.94	359.03	-2.61	2.88	4.940	0.359	7.27	-0.00261
1.53	4.83	362.28	-2.07	2.88	4.830	0.362	7.50	-0.00207
1.54	5	354.03	-1.53	2.81	5.000	0.354	7.08	-0.00153
1.55	5.39	339.83	-0.81	2.81	5.390	0.340	6.30	-0.00081
1.56	5.77	322.63	-0.54	2.81	5.770	0.323	5.59	-0.00054
1.57	6.03	310.09	-1.26	2.81	6.030	0.310	5.14	-0.00126
1.58	5.69	313.08	-1.08	2.81	5.690	0.313	5.50	-0.00108
1.59	5.2	313.17	-1.17	2.81	5.200	0.313	6.02	-0.00117
1.6	4.98	307.19	-1.71	2.78	4.980	0.307	6.17	-0.00171
1.61	5.06	298.78	-1.17	2.78	5.060	0.299	5.90	-0.00117
1.62	4.61	297.12	-1.71	2.78	4.610	0.297	6.45	-0.00171
1.63	4.19	293.88	-2.88	2.78	4.190	0.294	7.01	-0.00288
1.64	3.94	297.89	-1.53	2.68	3.940	0.298	7.56	-0.00153
1.65	3.76	293.49	-0.63	2.68	3.760	0.293	7.81	-0.00063
1.66	3.56	298.75	-0.81	2.68	3.560	0.299	8.39	-0.00081
1.67	3.26	297.32	-0.81	2.68	3.260	0.297	9.12	-0.00081
1.68	3.11	296.42	-0.99	2.68	3.110	0.296	9.53	-0.00099
1.69	2.99	293.05	-0.45	2.64	2.990	0.293	9.80	-0.00045
1.7	3.09	283.02	-0.27	2.64	3.090	0.283	9.16	-0.00027
1.71	2.91	270.31	-0.36	2.64	2.910	0.270	9.29	-0.00036

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.72	2.87	257.95	-0.45	2.64	2.870	0.258	8.99	-0.00045
1.73	2.79	242.09	-0.81	2.57	2.790	0.242	8.68	-0.00081
1.74	2.73	223.66	-0.63	2.57	2.730	0.224	8.19	-0.00063
1.75	2.81	212.89	-0.27	2.57	2.810	0.213	7.58	-0.00027
1.76	3.02	200.6	-0.09	2.54	3.020	0.201	6.64	-0.00009
1.77	3.07	186.01	-0.09	2.54	3.070	0.186	6.06	-0.00009
1.78	2.99	175.66	-0.18	2.54	2.990	0.176	5.87	-0.00018
1.79	2.8	172.48	-0.18	2.54	2.800	0.172	6.16	-0.00018
1.8	2.5	169.74	-0.54	2.54	2.500	0.170	6.79	-0.00054
1.81	2.39	164.71	-0.63	2.54	2.390	0.165	6.89	-0.00063
1.82	2.29	160.19	-0.54	2.54	2.290	0.160	7.00	-0.00054
1.83	2.04	158.5	-0.63	2.47	2.040	0.159	7.77	-0.00063
1.84	2.19	152.93	-0.45	2.47	2.190	0.153	6.98	-0.00045
1.85	2.26	150.89	-0.45	2.47	2.260	0.151	6.68	-0.00045
1.86	2.4	151.08	-0.45	2.47	2.400	0.151	6.30	-0.00045
1.87	2.36	150.28	-0.45	2.47	2.360	0.150	6.37	-0.00045
1.88	2.34	146.81	-0.45	2.47	2.340	0.147	6.27	-0.00045
1.89	2.33	142.89	-0.81	2.44	2.330	0.143	6.13	-0.00081
1.9	2.31	138.63	-0.99	2.44	2.310	0.139	6.00	-0.00099
1.91	2.31	138.63	-0.99	2.44	2.310	0.139	6.00	-0.00099
1.92	2.31	138.63	-0.99	2.44	2.310	0.139	6.00	-0.00099
1.93	2.6	127.99	0.63	2.44	2.600	0.128	4.92	0.00063
1.94	2.19	123.91	-1.26	2.44	2.190	0.124	5.66	-0.00126
1.95	1.97	123.31	-0.45	2.42	1.970	0.123	6.26	-0.00045
1.96	2.16	120.73	0.9	2.35	2.160	0.121	5.59	0.0009
1.97	2.23	123.88	1.17	2.35	2.230	0.124	5.56	0.00117
1.98	2.3	114.1	1.62	2.35	2.300	0.114	4.96	0.00162
1.99	2.53	110.41	1.53	2.35	2.530	0.110	4.36	0.00153
2	2.46	108.69	1.26	2.35	2.460	0.109	4.42	0.00126
2.01	2.41	105.41	1.35	2.27	2.410	0.105	4.37	0.00135
2.02	2.48	107.42	1.62	2.27	2.480	0.107	4.33	0.00162
2.03	2.61	106.49	1.53	2.27	2.610	0.106	4.08	0.00153
2.04	2.6	105.06	1.53	2.27	2.600	0.105	4.04	0.00153
2.05	2.43	114.74	1.71	2.27	2.430	0.115	4.72	0.00171
2.06	2.53	115.22	1.71	2.27	2.530	0.115	4.55	0.00171
2.07	2.66	115.16	1.71	2.27	2.660	0.115	4.33	0.00171
2.08	2.78	105.86	1.62	2.27	2.780	0.106	3.81	0.00162
2.09	2.64	103.91	1.62	2.2	2.640	0.104	3.94	0.00162
2.1	2.64	102.23	1.62	2.24	2.640	0.102	3.87	0.00162
2.11	2.63	100.54	1.62	2.24	2.630	0.101	3.82	0.00162
2.12	2.72	98.69	1.62	2.24	2.720	0.099	3.63	0.00162
2.13	2.76	96.78	1.62	2.24	2.760	0.097	3.51	0.00162
2.14	2.66	96.33	1.53	2.24	2.660	0.096	3.62	0.00153
2.15	2.7	98.21	1.53	2.24	2.700	0.098	3.64	0.00153
2.16	2.77	102.29	1.62	2.24	2.770	0.102	3.69	0.00162
2.17	2.8	98.95	1.62	2.24	2.800	0.099	3.53	0.00162
2.18	2.75	99.93	1.53	2.24	2.750	0.100	3.63	0.00153
2.19	2.68	109.68	1.53	2.24	2.680	0.110	4.09	0.00153
2.2	2.7	114.33	1.53	2.24	2.700	0.114	4.23	0.00153
2.21	2.72	115.06	1.53	2.24	2.720	0.115	4.23	0.00153
2.22	2.66	120.7	1.53	2.24	2.660	0.121	4.54	0.00153
2.23	2.52	132.89	1.44	2.24	2.520	0.133	5.27	0.00144
2.24	2.15	151.08	1.26	2.27	2.150	0.151	7.03	0.00126
2.25	1.94	156.62	0.9	2.27	1.940	0.157	8.07	0.0009
2.26	1.97	158.59	1.08	2.27	1.970	0.159	8.05	0.00108
2.27	1.99	152.77	1.17	2.27	1.990	0.153	7.68	0.00117
2.28	2.05	149.39	1.17	2.27	2.050	0.149	7.29	0.00117

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.29	2.04	147	1.17	2.27	2.040	0.147	7.21	0.00117
2.3	2.1	142.73	1.26	2.27	2.100	0.143	6.80	0.00126
2.31	2.26	134.2	1.26	2.3	2.260	0.134	5.94	0.00126
2.32	2.28	131.75	1.44	2.3	2.280	0.132	5.78	0.00144
2.33	2.44	132.83	1.44	2.3	2.440	0.133	5.44	0.00144
2.34	2.33	132.8	0.99	2.3	2.330	0.133	5.70	0.00099
2.35	1.97	131.4	1.26	2.3	1.970	0.131	6.67	0.00126
2.36	1.75	122.29	1.26	2.34	1.750	0.122	6.99	0.00126
2.37	1.77	112	1.26	2.34	1.770	0.112	6.33	0.00126
2.38	1.53	106.08	0.99	2.34	1.530	0.106	6.93	0.00099
2.39	1.33	100.67	0.99	2.34	1.330	0.101	7.57	0.00099
2.4	1.42	100.28	1.08	2.34	1.420	0.100	7.06	0.00108
2.41	1.84	101.11	1.35	2.38	1.840	0.101	5.50	0.00135
2.42	1.83	94.68	1.35	2.38	1.830	0.095	5.17	0.00135
2.43	1.72	89.07	1.35	2.38	1.720	0.089	5.18	0.00135
2.44	1.73	86.49	1.26	2.38	1.730	0.086	5.00	0.00126
2.45	1.86	87.83	1.35	2.38	1.860	0.088	4.72	0.00135
2.46	1.71	86.53	1.44	2.38	1.710	0.087	5.06	0.00144
2.47	1.79	77.39	1.44	2.38	1.790	0.077	4.32	0.00144
2.48	1.96	67	1.53	2.38	1.960	0.067	3.42	0.00153
2.49	1.98	63.34	1.44	2.38	1.980	0.063	3.20	0.00144
2.5	1.92	63.56	1.44	2.42	1.920	0.064	3.31	0.00144
2.51	1.74	70.86	1.26	2.42	1.740	0.071	4.07	0.00126
2.52	1.74	67.07	1.44	2.42	1.740	0.067	3.85	0.00144
2.53	1.9	61.3	1.44	2.42	1.900	0.061	3.23	0.00144
2.54	2.04	62.61	1.35	2.38	2.040	0.063	3.07	0.00135
2.55	2.22	59.9	1.26	2.38	2.220	0.060	2.70	0.00126
2.56	2.19	61.91	1.26	2.38	2.190	0.062	2.83	0.00126
2.57	2.26	64.87	1.26	2.34	2.260	0.065	2.87	0.00126
2.58	2.3	68.53	1.17	2.34	2.300	0.069	2.98	0.00117
2.59	2.36	71.14	0.99	2.3	2.360	0.071	3.01	0.00099
2.6	2.27	74.07	0.54	2.3	2.270	0.074	3.26	0.00054
2.61	2.17	76.02	0.9	2.3	2.170	0.076	3.50	0.0009
2.62	2.29	70.73	1.26	2.27	2.290	0.071	3.09	0.00126
2.63	2.56	63.92	1.26	2.27	2.560	0.064	2.50	0.00126
2.64	2.54	63.66	1.26	2.24	2.540	0.064	2.51	0.00126
2.65	2.56	69.49	0.72	2.17	2.560	0.069	2.71	0.00072
2.66	2.36	75.09	0.54	2.17	2.360	0.075	3.18	0.00054
2.67	2.71	77.45	0.9	2.14	2.710	0.077	2.86	0.0009
2.68	2.86	80.76	0.63	2.11	2.860	0.081	2.82	0.00063
2.69	3.07	73.21	0.72	2.11	3.070	0.073	2.38	0.00072
2.7	3.62	71.97	1.44	2.08	3.620	0.072	1.99	0.00144
2.71	3.47	74.65	-1.44	2.08	3.470	0.075	2.15	-0.00144
2.72	3.4	77.48	1.44	2.05	3.400	0.077	2.28	0.00144
2.73	3.25	89.3	1.44	2.05	3.250	0.089	2.75	0.00144
2.74	2.87	92.54	0.9	2.12	2.870	0.093	3.22	0.0009
2.75	2.97	100.63	1.35	2.1	2.970	0.101	3.39	0.00135
2.76	3.38	103.53	1.89	2.1	3.380	0.104	3.06	0.00189
2.77	3.51	110.92	1.62	2.08	3.510	0.111	3.16	0.00162
2.78	3.57	113.79	1.71	2.08	3.570	0.114	3.19	0.00171
2.79	3.53	119.77	0.63	2.08	3.530	0.120	3.39	0.00063
2.8	3.62	120.73	1.35	2.06	3.620	0.121	3.34	0.00135
2.81	3.6	121.21	2.16	2.06	3.600	0.121	3.37	0.00216
2.82	3.73	116.05	1.53	2.06	3.730	0.116	3.11	0.00153
2.83	3.78	104.93	1.8	2.14	3.780	0.105	2.78	0.0018
2.84	3.88	92.74	2.43	2.14	3.880	0.093	2.39	0.00243
2.85	3.93	81.91	2.34	2.23	3.930	0.082	2.08	0.00234

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.86	4.02	80.32	2.61	2.21	4.020	0.080	2.00	0.00261
2.87	3.93	84.3	2.88	2.29	3.930	0.084	2.15	0.00288
2.88	4.12	87.16	3.87	2.3	4.120	0.087	2.12	0.00387
2.89	4.17	93.63	10.9	2.38	4.170	0.094	2.25	0.0109
2.9	4.04	106.49	10.18	2.36	4.040	0.106	2.64	0.01018
2.91	4.04	106.49	10.18	2.36	4.040	0.106	2.64	0.01018
2.92	4.04	106.49	10.18	2.36	4.040	0.106	2.64	0.01018
2.93	3.84	132.45	4.33	2.38	3.840	0.132	3.45	0.00433
2.94	3.43	135.86	1.71	2.38	3.430	0.136	3.96	0.00171
2.95	3.47	137.16	2.34	2.47	3.470	0.137	3.95	0.00234
2.96	3.7	136.91	5.23	2.47	3.700	0.137	3.70	0.00523
2.97	3.69	134.58	6.67	2.47	3.690	0.135	3.65	0.00667
2.98	3.74	132.93	8.2	2.54	3.740	0.133	3.55	0.0082
2.99	3.7	132.16	7.75	2.54	3.700	0.132	3.57	0.00775
3	3.72	135.15	3.42	2.54	3.720	0.135	3.63	0.00342
3.01	3.75	139.39	1.53	2.54	3.750	0.139	3.72	0.00153
3.02	3.78	142.54	4.6	2.54	3.780	0.143	3.77	0.0046
3.03	3.64	145.6	8.29	2.54	3.640	0.146	4.00	0.00829
3.04	3.15	156.11	4.14	2.54	3.150	0.156	4.96	0.00414
3.05	3.12	156.24	-2.34	2.54	3.120	0.156	5.01	-0.00234
3.06	3.11	155.15	-2.79	2.64	3.110	0.155	4.99	-0.00279
3.07	3.05	155.03	-3.06	2.62	3.050	0.155	5.08	-0.00306
3.08	2.89	154.23	-3.24	2.62	2.890	0.154	5.34	-0.00324
3.09	2.79	153.91	-3.96	2.62	2.790	0.154	5.52	-0.00396
3.1	2.83	152.26	-6.31	2.64	2.830	0.152	5.38	-0.00631
3.11	2.84	152.8	-7.21	2.64	2.840	0.153	5.38	-0.00721
3.12	2.77	154.96	-7.66	2.71	2.770	0.155	5.59	-0.00766
3.13	2.53	158.15	-6.31	2.69	2.530	0.158	6.25	-0.00631
3.14	2.5	159.93	-7.93	2.71	2.500	0.160	6.40	-0.00793
3.15	2.5	159.93	-7.93	2.71	2.500	0.160	6.40	-0.00793
3.16	2.35	159.84	-8.92	2.71	2.350	0.160	6.80	-0.00892
3.17	2.35	159.84	-8.92	2.71	2.350	0.160	6.80	-0.00892
3.18	2.48	150.79	-8.02	2.71	2.480	0.151	6.08	-0.00802
3.19	2.59	147.57	-7.12	2.71	2.590	0.148	5.70	-0.00712
3.2	2.54	146.46	-0.99	2.71	2.540	0.146	5.77	-0.00099
3.21	2.35	146.52	1.98	2.79	2.350	0.147	6.23	0.00198
3.22	2.17	142.93	-3.51	2.79	2.170	0.143	6.59	-0.00351
3.23	2.4	135.66	1.26	2.71	2.400	0.136	5.65	0.00126
3.24	2.4	130.73	1.44	2.73	2.400	0.131	5.45	0.00144
3.25	2.32	125.09	2.34	2.73	2.320	0.125	5.39	0.00234
3.26	2.37	117.96	1.71	2.73	2.370	0.118	4.98	0.00171
3.27	2.34	108.56	1.89	2.73	2.340	0.109	4.64	0.00189
3.28	2.35	98.95	0.9	2.75	2.350	0.099	4.21	0.0009
3.29	2.19	93.25	1.53	2.75	2.190	0.093	4.26	0.00153
3.3	2.4	87.99	2.16	2.75	2.400	0.088	3.67	0.00216
3.31	2.17	85.22	2.34	2.75	2.170	0.085	3.93	0.00234
3.32	2.15	82	2.43	2.75	2.150	0.082	3.81	0.00243
3.33	1.91	78.85	1.17	2.77	1.910	0.079	4.13	0.00117
3.34	2.11	77.29	2.25	2.77	2.110	0.077	3.66	0.00225
3.35	2.04	77.04	2.07	2.77	2.040	0.077	3.78	0.00207
3.36	2.1	75.89	1.98	2.8	2.100	0.076	3.61	0.00198
3.37	2.1	75.89	1.98	2.8	2.100	0.076	3.61	0.00198
3.38	1.92	77.83	2.07	2.8	1.920	0.078	4.05	0.00207
3.39	1.6	79.97	2.25	2.73	1.600	0.080	5.00	0.00225
3.4	1.48	82.1	2.52	2.73	1.480	0.082	5.55	0.00252
3.41	1.25	81.65	2.43	2.73	1.250	0.082	6.53	0.00243
3.42	1.23	80.89	2.43	2.73	1.230	0.081	6.58	0.00243

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
3.43	1.38	77.58	2.16	2.73	1.380	0.078	5.62	0.00216
3.44	1.38	80.98	2.16	2.73	1.380	0.081	5.87	0.00216
3.45	1.48	83.91	2.16	2.75	1.480	0.084	5.67	0.00216
3.46	1.33	83.25	2.34	2.75	1.330	0.083	6.26	0.00234
3.47	1.08	85.47	2.43	2.75	1.080	0.085	7.91	0.00243
3.48	1.13	83.31	2.61	2.75	1.130	0.083	7.37	0.00261
3.49	1.17	79.81	2.61	2.75	1.170	0.080	6.82	0.00261
3.5	1.17	74.46	2.52	2.75	1.170	0.074	6.36	0.00252
3.51	1.07	71.65	2.43	2.75	1.070	0.072	6.70	0.00243
3.52	0.95	68.98	2.34	2.75	0.950	0.069	7.26	0.00234
3.53	1.05	68.76	2.34	2.75	1.050	0.069	6.55	0.00234
3.54	1.02	66.94	2.25	2.75	1.020	0.067	6.56	0.00225
3.55	1.04	68.88	0.27	2.68	1.040	0.069	6.62	0.00027
3.56	1.01	65.57	0.36	2.75	1.010	0.066	6.49	0.00036
3.57	0.99	58.82	0.63	2.73	0.990	0.059	5.94	0.00063
3.58	0.94	56.72	1.44	2.73	0.940	0.057	6.03	0.00144
3.59	0.97	58.63	2.7	2.73	0.970	0.059	6.04	0.0027
3.6	0.93	61.94	2.97	2.73	0.930	0.062	6.66	0.00297
3.61	0.97	66.3	3.15	2.73	0.970	0.066	6.84	0.00315
3.62	0.96	71.34	2.97	2.73	0.960	0.071	7.43	0.00297
3.63	0.67	73.69	2.79	2.73	0.670	0.074	11.00	0.00279
3.64	0.86	74.77	3.06	2.73	0.860	0.075	8.69	0.00306
3.65	0.9	74.23	2.88	2.73	0.900	0.074	8.25	0.00288
3.66	0.75	80.12	2.88	2.73	0.750	0.080	10.68	0.00288
3.67	0.79	80.03	2.43	2.7	0.790	0.080	10.13	0.00243
3.68	0.97	80.19	1.98	2.7	0.970	0.080	8.27	0.00198
3.69	1.05	80.51	2.7	2.7	1.050	0.081	7.67	0.0027
3.7	0.9	82.67	2.88	2.7	0.900	0.083	9.19	0.00288
3.71	1.13	79.11	2.61	2.7	1.130	0.079	7.00	0.00261
3.72	1.12	77.61	1.98	2.77	1.120	0.078	6.93	0.00198
3.73	1.08	76.72	1.8	2.7	1.080	0.077	7.10	0.0018
3.74	1.18	72.39	2.07	2.68	1.180	0.072	6.13	0.00207
3.75	1.32	66.75	0.9	2.68	1.320	0.067	5.06	0.0009
3.76	1.08	63.5	-0.36	2.68	1.080	0.064	5.88	-0.00036
3.77	1.26	60.89	0.99	2.68	1.260	0.061	4.83	0.00099
3.78	1.6	56.3	2.07	2.73	1.600	0.056	3.52	0.00207
3.79	1.76	57	2.34	2.73	1.760	0.057	3.24	0.00234
3.8	1.66	58.47	3.33	2.73	1.660	0.058	3.52	0.00333
3.81	1.62	64.84	5.59	2.73	1.620	0.065	4.00	0.00559
3.82	1.5	70.19	9.1	2.73	1.500	0.070	4.68	0.0091
3.83	1.51	76.4	17.84	2.73	1.510	0.076	5.06	0.01784
3.84	1.56	83.88	21.27	2.73	1.560	0.084	5.38	0.02127
3.85	1.6	87.26	20.09	2.66	1.600	0.087	5.45	0.02009
3.86	1.64	88.4	19.01	2.66	1.640	0.088	5.39	0.01901
3.87	1.78	89.46	13.07	2.64	1.780	0.089	5.03	0.01307
3.88	1.89	89.61	16.76	2.64	1.890	0.090	4.74	0.01676
3.89	1.89	91.08	22.17	2.64	1.890	0.091	4.82	0.02217
3.9	1.96	92.9	21.81	2.64	1.960	0.093	4.74	0.02181
3.91	1.96	92.9	21.81	2.64	1.960	0.093	4.74	0.02181
3.92	1.96	92.9	21.81	2.64	1.960	0.093	4.74	0.02181
3.93	2.04	103.02	15.32	2.56	2.040	0.103	5.05	0.01532
3.94	2.08	104.87	15.41	2.56	2.080	0.105	5.04	0.01541
3.95	2.12	108.12	15.5	2.54	2.120	0.108	5.10	0.0155
3.96	2.15	112.26	15.5	2.54	2.150	0.112	5.22	0.0155
3.97	2.19	114.81	15.5	2.54	2.190	0.115	5.24	0.0155
3.98	2.23	117.45	15.59	2.47	2.230	0.117	5.27	0.01559
3.99	2.34	120.28	15.59	2.47	2.340	0.120	5.14	0.01559

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4	2.47	122.61	15.68	2.47	2.470	0.123	4.96	0.01568
4.01	2.54	126.17	15.68	2.47	2.540	0.126	4.97	0.01568
4.02	2.53	135	15.68	2.47	2.530	0.135	5.34	0.01568
4.03	2.53	135	15.68	2.47	2.530	0.135	5.34	0.01568
4.04	2.54	139.07	15.68	2.47	2.540	0.139	5.48	0.01568
4.05	2.55	142.77	15.68	2.4	2.550	0.143	5.60	0.01568
4.06	2.59	146.52	15.86	2.47	2.590	0.147	5.66	0.01586
4.07	2.63	148.69	15.95	2.4	2.630	0.149	5.65	0.01595
4.08	2.62	152.73	16.04	2.4	2.620	0.153	5.83	0.01604
4.09	2.58	156.68	16.13	2.4	2.580	0.157	6.07	0.01613
4.1	2.52	158.12	16.04	2.4	2.520	0.158	6.27	0.01604
4.11	2.47	158.24	16.04	2.4	2.470	0.158	6.41	0.01604
4.12	2.45	155.41	15.95	2.4	2.450	0.155	6.34	0.01595
4.13	2.41	153.4	15.95	2.4	2.410	0.153	6.37	0.01595
4.14	2.33	152.7	15.86	2.4	2.330	0.153	6.55	0.01586
4.15	2.26	152.13	15.77	2.4	2.260	0.152	6.73	0.01577
4.16	2.21	152.48	15.68	2.4	2.210	0.152	6.90	0.01568
4.17	2.13	152.32	15.68	2.4	2.130	0.152	7.15	0.01568
4.18	2.04	152.77	15.68	2.4	2.040	0.153	7.49	0.01568
4.19	1.96	152.83	15.59	2.4	1.960	0.153	7.80	0.01559
4.2	1.91	150.6	15.77	2.4	1.910	0.151	7.88	0.01577
4.21	1.9	147.67	15.77	2.4	1.900	0.148	7.77	0.01577
4.22	1.88	144.07	15.86	2.4	1.880	0.144	7.66	0.01586
4.23	1.86	139.84	16.13	2.4	1.860	0.140	7.52	0.01613
4.24	1.82	138.05	16.22	2.4	1.820	0.138	7.59	0.01622
4.25	1.77	134.9	16.4	2.4	1.770	0.135	7.62	0.0164
4.26	1.72	130.51	16.67	2.4	1.720	0.131	7.59	0.01667
4.27	1.66	126.02	17.03	2.4	1.660	0.126	7.59	0.01703
4.28	1.63	122.45	17.12	2.4	1.630	0.122	7.51	0.01712
4.29	1.65	117.74	17.12	2.4	1.650	0.118	7.14	0.01712
4.3	1.68	112.96	17.12	2.38	1.680	0.113	6.72	0.01712
4.31	1.69	107.74	17.12	2.38	1.690	0.108	6.38	0.01712
4.32	1.68	103.5	17.03	2.38	1.680	0.104	6.16	0.01703
4.33	1.62	99.55	17.03	2.38	1.620	0.100	6.15	0.01703
4.34	1.54	96.21	16.94	2.38	1.540	0.096	6.25	0.01694
4.35	1.47	92.83	16.76	2.38	1.470	0.093	6.31	0.01676
4.36	1.34	87.93	16.58	2.38	1.340	0.088	6.56	0.01658
4.37	1.28	87.13	16.49	2.45	1.280	0.087	6.81	0.01649
4.38	1.23	87.61	16.4	2.45	1.230	0.088	7.12	0.0164
4.39	1.17	86.97	16.31	2.45	1.170	0.087	7.43	0.01631
4.4	1.12	86.97	16.22	2.45	1.120	0.087	7.77	0.01622
4.41	1.09	85.51	16.13	2.45	1.090	0.086	7.84	0.01613
4.42	1.05	84.36	16.04	2.45	1.050	0.084	8.03	0.01604
4.43	1.02	84.01	16.04	2.45	1.020	0.084	8.24	0.01604
4.44	1	84.07	16.04	2.45	1.000	0.084	8.41	0.01604
4.45	0.99	83.37	16.04	2.45	0.990	0.083	8.42	0.01604
4.46	1	81.65	16.04	2.45	1.000	0.082	8.17	0.01604
4.47	1.02	79.07	16.04	2.45	1.020	0.079	7.75	0.01604
4.48	1.02	77.1	16.04	2.45	1.020	0.077	7.56	0.01604
4.49	1.02	74.97	16.13	2.45	1.020	0.075	7.35	0.01613
4.5	0.98	73.53	16.04	2.45	0.980	0.074	7.50	0.01604
4.51	0.96	71.02	16.04	2.45	0.960	0.071	7.40	0.01604
4.52	0.94	68.12	16.04	2.45	0.940	0.068	7.25	0.01604
4.53	0.92	66.24	15.95	2.45	0.920	0.066	7.20	0.01595
4.54	0.9	64.74	15.95	2.45	0.900	0.065	7.19	0.01595
4.55	0.88	63.5	15.86	2.45	0.880	0.064	7.22	0.01586
4.56	0.87	61.81	15.77	2.45	0.870	0.062	7.10	0.01577

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4.57	0.85	60.28	15.77	2.45	0.850	0.060	7.09	0.01577
4.58	0.84	58.76	15.77	2.45	0.840	0.059	7.00	0.01577
4.59	0.83	57.26	15.77	2.45	0.830	0.057	6.90	0.01577
4.6	0.81	55.92	15.86	2.45	0.810	0.056	6.90	0.01586
4.61	0.79	55.57	15.95	2.45	0.790	0.056	7.03	0.01595
4.62	0.77	54.78	16.04	2.45	0.770	0.055	7.11	0.01604
4.63	0.77	53.92	16.04	2.44	0.770	0.054	7.00	0.01604
4.64	0.77	53.41	16.13	2.45	0.770	0.053	6.94	0.01613
4.65	0.76	52.61	16.13	2.44	0.760	0.053	6.92	0.01613
4.66	0.76	51.56	16.13	2.44	0.760	0.052	6.78	0.01613
4.67	0.75	50.95	16.13	2.44	0.750	0.051	6.79	0.01613
4.68	0.75	50.79	16.13	2.44	0.750	0.051	6.77	0.01613
4.69	0.75	49.97	16.04	2.44	0.750	0.050	6.66	0.01604
4.7	0.76	48.12	16.04	2.44	0.760	0.048	6.33	0.01604
4.71	0.77	46.62	16.04	2.44	0.770	0.047	6.05	0.01604
4.72	0.78	45.16	16.04	2.44	0.780	0.045	5.79	0.01604
4.73	0.79	43.82	15.95	2.44	0.790	0.044	5.55	0.01595
4.74	0.79	42.9	15.95	2.44	0.790	0.043	5.43	0.01595
4.75	0.8	42.16	15.86	2.44	0.800	0.042	5.27	0.01586
4.76	0.79	42.01	15.86	2.44	0.790	0.042	5.32	0.01586
4.77	0.8	42.13	15.77	2.44	0.800	0.042	5.27	0.01577
4.78	0.81	41.75	15.77	2.44	0.810	0.042	5.15	0.01577
4.79	0.8	41.56	15.77	2.44	0.800	0.042	5.20	0.01577
4.8	0.8	41.56	15.68	2.44	0.800	0.042	5.20	0.01568
4.81	0.79	41.08	15.68	2.44	0.790	0.041	5.20	0.01568
4.82	0.79	41.18	15.68	2.44	0.790	0.041	5.21	0.01568
4.83	0.79	41.08	15.59	2.44	0.790	0.041	5.20	0.01559
4.84	0.78	41.56	15.59	2.44	0.780	0.042	5.33	0.01559
4.85	0.77	41.75	15.41	2.44	0.770	0.042	5.42	0.01541
4.86	0.76	41.46	15.32	2.44	0.760	0.041	5.46	0.01532
4.87	0.75	41.02	15.32	2.44	0.750	0.041	5.47	0.01532
4.88	0.75	40.13	15.23	2.44	0.750	0.040	5.35	0.01523
4.89	0.74	39.74	14.96	2.42	0.740	0.040	5.37	0.01496
4.9	0.81	38.66	14.24	2.42	0.810	0.039	4.77	0.01424
4.91	0.81	38.66	14.24	2.42	0.810	0.039	4.77	0.01424
4.92	0.81	38.66	14.24	2.42	0.810	0.039	4.77	0.01424
4.93	1.16	40.19	15.77	2.35	1.160	0.040	3.46	0.01577
4.94	1.03	40.73	15.68	2.35	1.030	0.041	3.95	0.01568
4.95	0.88	41.72	15.5	2.35	0.880	0.042	4.74	0.0155
4.96	0.77	41.94	15.23	2.35	0.770	0.042	5.45	0.01523
4.97	0.68	44.36	14.96	2.35	0.680	0.044	6.52	0.01496
4.98	0.64	43.85	14.96	2.35	0.640	0.044	6.85	0.01496
4.99	0.61	43.63	15.68	2.34	0.610	0.044	7.15	0.01568
5	0.6	42.45	16.31	2.34	0.600	0.042	7.08	0.01631
5.01	0.6	42.45	16.31	2.34	0.600	0.042	7.08	0.01631
5.02	0.61	40.13	17.75	2.34	0.610	0.040	6.58	0.01775
5.03	0.61	39.04	18.65	2.34	0.610	0.039	6.40	0.01865
5.04	0.62	37.8	19.37	2.34	0.620	0.038	6.10	0.01937
5.05	0.62	36.97	20.36	2.34	0.620	0.037	5.96	0.02036
5.06	0.62	36.02	20.72	2.34	0.620	0.036	5.81	0.02072
5.07	0.61	35.25	20.81	2.34	0.610	0.035	5.78	0.02081
5.08	0.61	34.08	20.9	2.34	0.610	0.034	5.59	0.0209
5.09	0.61	32.61	21.36	2.33	0.610	0.033	5.35	0.02136
5.1	0.61	30.51	22.8	2.33	0.610	0.031	5.00	0.0228
5.11	0.61	29.33	24.51	2.33	0.610	0.029	4.81	0.02451
5.12	0.61	28.82	25.68	2.33	0.610	0.029	4.72	0.02568
5.13	0.61	28.37	26.76	2.33	0.610	0.028	4.65	0.02676

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.14	0.6	28.15	28.74	2.33	0.600	0.028	4.69	0.02874
5.15	0.59	28.09	32.08	2.33	0.590	0.028	4.76	0.03208
5.16	0.58	27.9	38.84	2.33	0.580	0.028	4.81	0.03884
5.17	0.58	27.9	38.84	2.33	0.580	0.028	4.81	0.03884
5.18	0.58	27.48	42.35	2.25	0.580	0.027	4.74	0.04235
5.19	0.57	27.01	43.34	2.25	0.570	0.027	4.74	0.04334
5.2	0.56	26.53	43.61	2.33	0.560	0.027	4.74	0.04361
5.21	0.55	26.21	43.79	2.33	0.550	0.026	4.77	0.04379
5.22	0.54	25.64	44.15	2.33	0.540	0.026	4.75	0.04415
5.23	0.54	24.87	44.87	2.33	0.540	0.025	4.61	0.04487
5.24	0.56	24.17	46.13	2.33	0.560	0.024	4.32	0.04613
5.25	0.57	23.5	47.22	2.33	0.570	0.024	4.12	0.04722
5.26	0.57	23.18	48.75	2.33	0.570	0.023	4.07	0.04875
5.27	0.56	22.87	51.27	2.33	0.560	0.023	4.08	0.05127
5.28	0.55	22.36	51.99	2.33	0.550	0.022	4.07	0.05199
5.29	0.54	22.1	51.81	2.33	0.540	0.022	4.09	0.05181
5.3	0.54	21.72	51.63	2.32	0.540	0.022	4.02	0.05163
5.31	0.54	21.34	51.45	2.32	0.540	0.021	3.95	0.05145
5.32	0.54	22.01	50.82	2.32	0.540	0.022	4.08	0.05082
5.33	0.54	22.45	50.82	2.32	0.540	0.022	4.16	0.05082
5.34	0.54	22.93	50.64	2.39	0.540	0.023	4.25	0.05064
5.35	0.55	23.44	50.73	2.39	0.550	0.023	4.26	0.05073
5.36	0.56	23.98	50.91	2.39	0.560	0.024	4.28	0.05091
5.37	0.56	23.98	50.91	2.39	0.560	0.024	4.28	0.05091
5.38	0.57	24.39	50.91	2.39	0.570	0.024	4.28	0.05091
5.39	0.56	25.25	51	2.39	0.560	0.025	4.51	0.051
5.4	0.54	26.5	51.18	2.39	0.540	0.027	4.91	0.05118
5.41	0.52	27.8	51.81	2.39	0.520	0.028	5.35	0.05181
5.42	0.53	28.25	51.63	2.39	0.530	0.028	5.33	0.05163
5.43	0.53	28.44	51.54	2.39	0.530	0.028	5.37	0.05154
5.44	0.54	28.53	51.27	2.39	0.540	0.029	5.28	0.05127
5.45	0.55	28.37	51.18	2.39	0.550	0.028	5.16	0.05118
5.46	0.55	28.02	51.09	2.39	0.550	0.028	5.09	0.05109
5.47	0.55	28.18	50.91	2.39	0.550	0.028	5.12	0.05091
5.48	0.54	28.06	50.82	2.39	0.540	0.028	5.20	0.05082
5.49	0.54	27.9	50.73	2.39	0.540	0.028	5.17	0.05073
5.5	0.54	28.12	50.55	2.39	0.540	0.028	5.21	0.05055
5.51	0.54	27.64	50.46	2.39	0.540	0.028	5.12	0.05046
5.52	0.54	27.04	50.28	2.39	0.540	0.027	5.01	0.05028
5.53	0.53	26.53	50.1	2.39	0.530	0.027	5.01	0.0501
5.54	0.53	25.86	49.92	2.39	0.530	0.026	4.88	0.04992
5.55	0.53	25.86	49.92	2.39	0.530	0.026	4.88	0.04992
5.56	0.53	24.97	49.92	2.39	0.530	0.025	4.71	0.04992
5.57	0.55	22.83	49.92	2.39	0.550	0.023	4.15	0.04992
5.58	0.57	21.88	49.92	2.47	0.570	0.022	3.84	0.04992
5.59	0.58	20.95	49.92	2.47	0.580	0.021	3.61	0.04992
5.6	0.59	20.13	49.92	2.47	0.590	0.020	3.41	0.04992
5.61	0.61	19.55	49.92	2.47	0.610	0.020	3.20	0.04992
5.62	0.63	19.01	49.92	2.47	0.630	0.019	3.02	0.04992
5.63	0.64	19.01	49.83	2.47	0.640	0.019	2.97	0.04983
5.64	0.65	19.27	49.74	2.47	0.650	0.019	2.96	0.04974
5.65	0.67	19.55	49.74	2.47	0.670	0.020	2.92	0.04974
5.66	0.69	20.22	49.65	2.47	0.690	0.020	2.93	0.04965
5.67	0.69	21.5	49.56	2.47	0.690	0.022	3.12	0.04956
5.68	0.7	22.96	49.56	2.47	0.700	0.023	3.28	0.04956
5.69	0.7	22.96	49.56	2.47	0.700	0.023	3.28	0.04956
5.7	0.7	26.34	49.47	2.47	0.700	0.026	3.76	0.04947

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.71	0.71	28.02	49.47	2.47	0.710	0.028	3.95	0.04947
5.72	0.73	29.55	49.38	2.47	0.730	0.030	4.05	0.04938
5.73	0.73	31.18	49.38	2.47	0.730	0.031	4.27	0.04938
5.74	0.74	33.02	49.29	2.47	0.740	0.033	4.46	0.04929
5.75	0.73	34.71	49.2	2.47	0.730	0.035	4.75	0.0492
5.76	0.74	36.21	49.11	2.47	0.740	0.036	4.89	0.04911
5.77	0.72	37.1	49.02	2.47	0.720	0.037	5.15	0.04902
5.78	0.71	37.96	48.93	2.47	0.710	0.038	5.35	0.04893
5.79	0.69	38.69	48.75	2.47	0.690	0.039	5.61	0.04875
5.8	0.68	38.82	48.75	2.47	0.680	0.039	5.71	0.04875
5.81	0.67	38.34	48.66	2.47	0.670	0.038	5.72	0.04866
5.82	0.67	37.39	48.66	2.47	0.670	0.037	5.58	0.04866
5.83	0.67	36.5	48.66	2.47	0.670	0.037	5.45	0.04866
5.84	0.67	35.73	48.57	2.47	0.670	0.036	5.33	0.04857
5.85	0.66	34.78	48.57	2.47	0.660	0.035	5.27	0.04857
5.86	0.66	33.79	48.48	2.46	0.660	0.034	5.12	0.04848
5.87	0.65	33.06	48.48	2.46	0.650	0.033	5.09	0.04848
5.88	0.64	32.26	48.39	2.54	0.640	0.032	5.04	0.04839
5.89	0.63	31.53	48.39	2.54	0.630	0.032	5.00	0.04839
5.9	0.62	30.8	48.39	2.54	0.620	0.031	4.97	0.04839
5.91	0.62	30.8	48.39	2.54	0.620	0.031	4.97	0.04839
5.92	0.62	30.8	48.39	2.54	0.620	0.031	4.97	0.04839
5.93	0.67	24.87	133.36	2.46	0.670	0.025	3.71	0.13336
5.94	0.67	24.62	134.08	2.46	0.670	0.025	3.67	0.13408
5.95	0.67	24.23	134.8	2.46	0.670	0.024	3.62	0.1348
5.96	0.68	23.47	135.61	2.46	0.680	0.023	3.45	0.13561
5.97	0.69	22.83	136.24	2.46	0.690	0.023	3.31	0.13624
5.98	0.7	22.48	136.6	2.46	0.700	0.022	3.21	0.1366
5.99	0.73	22.04	137.41	2.46	0.730	0.022	3.02	0.13741
6	0.73	22.04	137.41	2.46	0.730	0.022	3.02	0.13741
6.01	0.73	22.32	138.58	2.46	0.730	0.022	3.06	0.13858
6.02	0.74	22.23	138.58	2.46	0.740	0.022	3.00	0.13858
6.03	0.75	22.23	138.49	2.46	0.750	0.022	2.96	0.13849
6.04	0.76	22.39	138.4	2.46	0.760	0.022	2.95	0.1384
6.05	0.77	22.77	138.31	2.46	0.770	0.023	2.96	0.13831
6.06	0.77	23.47	138.31	2.46	0.770	0.023	3.05	0.13831
6.07	0.78	23.95	138.31	2.46	0.780	0.024	3.07	0.13831
6.08	0.8	24.39	138.22	2.46	0.800	0.024	3.05	0.13822
6.09	0.83	25	138.22	2.46	0.830	0.025	3.01	0.13822
6.1	0.85	26.05	138.04	2.46	0.850	0.026	3.06	0.13804
6.11	0.86	27.42	137.95	2.46	0.860	0.027	3.19	0.13795
6.12	0.88	28.82	137.86	2.46	0.880	0.029	3.28	0.13786
6.13	0.89	30.32	137.59	2.46	0.890	0.030	3.41	0.13759
6.14	0.89	32.42	137.41	2.46	0.890	0.032	3.64	0.13741
6.15	0.89	35.09	137.32	2.46	0.890	0.035	3.94	0.13732
6.16	0.88	37.83	137.05	2.46	0.880	0.038	4.30	0.13705
6.17	0.88	39.55	136.78	2.46	0.880	0.040	4.49	0.13678
6.18	0.88	40.92	136.42	2.46	0.880	0.041	4.65	0.13642
6.19	0.88	43.6	136.06	2.46	0.880	0.044	4.95	0.13606
6.2	0.86	46.72	135.88	2.46	0.860	0.047	5.43	0.13588
6.21	0.86	49.2	135.88	2.46	0.860	0.049	5.72	0.13588
6.22	0.87	51.3	135.79	2.46	0.870	0.051	5.90	0.13579
6.23	0.88	52.99	135.7	2.46	0.880	0.053	6.02	0.1357
6.24	0.89	54.55	135.7	2.46	0.890	0.055	6.13	0.1357
6.25	0.89	55.6	136.06	2.46	0.890	0.056	6.25	0.13606
6.26	0.89	56.78	136.33	2.46	0.890	0.057	6.38	0.13633
6.27	0.88	57.99	136.15	2.46	0.880	0.058	6.59	0.13615

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.28	0.88	58.06	136.15	2.46	0.880	0.058	6.60	0.13615
6.29	0.88	58.47	136.24	2.54	0.880	0.058	6.64	0.13624
6.3	0.89	58.44	136.15	2.54	0.890	0.058	6.57	0.13615
6.31	0.92	58.18	136.33	2.54	0.920	0.058	6.32	0.13633
6.32	0.86	58.92	136.42	2.54	0.860	0.059	6.85	0.13642
6.33	0.84	58.85	136.33	2.54	0.840	0.059	7.01	0.13633
6.34	0.83	57.74	136.15	2.54	0.830	0.058	6.96	0.13615
6.35	0.83	56.46	136.06	2.54	0.830	0.056	6.80	0.13606
6.36	0.83	55.57	136.24	2.62	0.830	0.056	6.70	0.13624
6.37	0.83	54.46	136.06	2.62	0.830	0.054	6.56	0.13606
6.38	0.83	53.69	135.88	2.54	0.830	0.054	6.47	0.13588
6.39	0.82	52.99	135.7	2.62	0.820	0.053	6.46	0.1357
6.4	0.82	52.23	135.52	2.62	0.820	0.052	6.37	0.13552
6.41	0.81	51.11	135.07	2.62	0.810	0.051	6.31	0.13507
6.42	0.78	49.93	134.71	2.62	0.780	0.050	6.40	0.13471
6.43	0.76	49.3	134.26	2.62	0.760	0.049	6.49	0.13426
6.44	0.74	48.25	133.99	2.62	0.740	0.048	6.52	0.13399
6.45	0.73	47.04	133.54	2.62	0.730	0.047	6.44	0.13354
6.46	0.71	45.51	133.27	2.62	0.710	0.046	6.41	0.13327
6.47	0.7	43.98	133.09	2.62	0.700	0.044	6.28	0.13309
6.48	0.69	41.15	132.82	2.63	0.690	0.041	5.96	0.13282
6.49	0.68	40.6	132.64	2.63	0.680	0.041	5.97	0.13264
6.5	0.67	40.16	132.46	2.63	0.670	0.040	5.99	0.13246
6.51	0.66	39.52	132.28	2.63	0.660	0.040	5.99	0.13228
6.52	0.65	38.57	132.1	2.63	0.650	0.039	5.93	0.1321
6.53	0.64	37.32	132.1	2.63	0.640	0.037	5.83	0.1321
6.54	0.65	35.64	132.19	2.63	0.650	0.036	5.48	0.13219
6.55	0.65	33.73	132.19	2.63	0.650	0.034	5.19	0.13219
6.56	0.66	31.91	132.64	2.63	0.660	0.032	4.83	0.13264
6.57	0.65	30.8	134.17	2.63	0.650	0.031	4.74	0.13417
6.58	0.64	29.52	147.77	2.63	0.640	0.030	4.61	0.14777
6.59	0.63	28.15	154.35	2.64	0.630	0.028	4.47	0.15435
6.6	0.64	26.24	154.35	2.63	0.640	0.026	4.10	0.15435
6.61	0.64	24.71	153.99	2.64	0.640	0.025	3.86	0.15399
6.62	0.64	23.41	153.63	2.64	0.640	0.023	3.66	0.15363
6.63	0.64	22.1	153.54	2.64	0.640	0.022	3.45	0.15354
6.64	0.63	20.8	153.27	2.64	0.630	0.021	3.30	0.15327
6.65	0.63	20.38	153.27	2.64	0.630	0.020	3.23	0.15327
6.66	0.64	20.03	153.18	2.64	0.640	0.020	3.13	0.15318
6.67	0.64	19.65	153.36	2.64	0.640	0.020	3.07	0.15336
6.68	0.65	19.49	154.17	2.64	0.650	0.019	3.00	0.15417
6.69	0.65	19.55	155.16	2.64	0.650	0.020	3.01	0.15516
6.7	0.67	18.88	155.61	2.65	0.670	0.019	2.82	0.15561
6.71	0.7	18.57	156.33	2.65	0.700	0.019	2.65	0.15633
6.72	0.74	18.82	156.79	2.65	0.740	0.019	2.54	0.15679
6.73	0.77	19.2	157.33	2.65	0.770	0.019	2.49	0.15733
6.74	0.8	19.43	157.96	2.65	0.800	0.019	2.43	0.15796
6.75	0.81	19.94	158.23	2.65	0.810	0.020	2.46	0.15823
6.76	0.82	20.09	158.23	2.65	0.820	0.020	2.45	0.15823
6.77	0.83	19.71	158.41	2.65	0.830	0.020	2.37	0.15841
6.78	0.86	20.03	158.41	2.65	0.860	0.020	2.33	0.15841
6.79	0.87	21.18	158.5	2.65	0.870	0.021	2.43	0.1585
6.8	0.87	22.99	158.41	2.65	0.870	0.023	2.64	0.15841
6.81	0.92	34.17	145.43	2.66	0.920	0.034	3.71	0.14543
6.82	0.92	34.17	145.43	2.66	0.920	0.034	3.71	0.14543
6.83	0.92	34.17	145.43	2.66	0.920	0.034	3.71	0.14543
6.84	1.06	39.36	126.51	2.74	1.060	0.039	3.71	0.12651

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.85	1.02	40.48	133.18	2.74	1.020	0.040	3.97	0.13318
6.86	1.01	41.46	138.94	2.74	1.010	0.041	4.10	0.13894
6.87	1.01	42.07	141.11	2.74	1.010	0.042	4.17	0.14111
6.88	1.01	42.9	142.28	2.74	1.010	0.043	4.25	0.14228
6.89	1	44.2	143.36	2.74	1.000	0.044	4.42	0.14336
6.9	0.98	45.7	143.99	2.74	0.980	0.046	4.66	0.14399
6.91	0.97	46.21	144.08	2.75	0.970	0.046	4.76	0.14408
6.92	0.96	46.81	144.26	2.75	0.960	0.047	4.88	0.14426
6.93	0.96	47.83	144.44	2.75	0.960	0.048	4.98	0.14444
6.94	0.95	48.22	145.25	2.75	0.950	0.048	5.08	0.14525
6.95	0.93	49.39	146.15	2.75	0.930	0.049	5.31	0.14615
6.96	0.93	48.82	146.51	2.75	0.930	0.049	5.25	0.14651
6.97	0.92	47.8	147.05	2.75	0.920	0.048	5.20	0.14705
6.98	0.93	46.65	147.05	2.75	0.930	0.047	5.02	0.14705
6.99	0.94	45.13	147.23	2.75	0.940	0.045	4.80	0.14723
7	0.93	44.78	147.41	2.75	0.930	0.045	4.82	0.14741
7.01	0.93	44.36	147.41	2.75	0.930	0.044	4.77	0.14741
7.02	0.92	43.85	147.41	2.77	0.920	0.044	4.77	0.14741
7.03	0.9	43.53	147.23	2.69	0.900	0.044	4.84	0.14723
7.04	0.9	43.09	147.14	2.69	0.900	0.043	4.79	0.14714
7.05	0.88	43.02	147.05	2.69	0.880	0.043	4.89	0.14705
7.06	0.87	43.22	147.23	2.69	0.870	0.043	4.97	0.14723
7.07	0.85	43.47	147.95	2.69	0.850	0.043	5.11	0.14795
7.08	0.83	42.93	148.04	2.69	0.830	0.043	5.17	0.14804
7.09	0.83	41.91	148.5	2.69	0.830	0.042	5.05	0.1485
7.1	0.84	40.7	149.04	2.69	0.840	0.041	4.85	0.14904
7.11	0.83	40.19	149.31	2.69	0.830	0.040	4.84	0.14931
7.12	0.81	39.17	149.4	2.69	0.810	0.039	4.84	0.1494
7.13	0.81	38.47	149.85	2.69	0.810	0.038	4.75	0.14985
7.14	0.8	38.06	150.21	2.69	0.800	0.038	4.76	0.15021
7.15	0.8	37.23	151.02	2.69	0.800	0.037	4.65	0.15102
7.16	0.82	35.99	152.01	2.69	0.820	0.036	4.39	0.15201
7.17	0.82	34.74	152.91	2.69	0.820	0.035	4.24	0.15291
7.18	0.83	33.92	153.99	2.69	0.830	0.034	4.09	0.15399
7.19	0.86	32.8	155.07	2.69	0.860	0.033	3.81	0.15507
7.2	0.89	31.4	156.06	2.71	0.890	0.031	3.53	0.15606
7.21	0.9	30.89	157.42	2.71	0.900	0.031	3.43	0.15742
7.22	0.92	30.32	159.04	2.71	0.920	0.030	3.30	0.15904
7.23	0.94	29.55	160.57	2.71	0.940	0.030	3.14	0.16057
7.24	0.96	29.17	161.92	2.71	0.960	0.029	3.04	0.16192
7.25	0.97	28.98	162.55	2.71	0.970	0.029	2.99	0.16255
7.26	0.98	28.98	163.63	2.71	0.980	0.029	2.96	0.16363
7.27	1.01	29.2	166.07	2.71	1.010	0.029	2.89	0.16607
7.28	1.02	29.55	168.68	2.79	1.020	0.030	2.90	0.16868
7.29	1.03	30.38	169.94	2.79	1.030	0.030	2.95	0.16994
7.3	1.06	32.39	174.54	2.71	1.060	0.032	3.06	0.17454
7.31	1.06	33.79	174.72	2.79	1.060	0.034	3.19	0.17472
7.32	1.06	34.74	175.08	2.71	1.060	0.035	3.28	0.17508
7.33	1.06	36.18	175.98	2.79	1.060	0.036	3.41	0.17598
7.34	1.06	37.32	176.43	2.71	1.060	0.037	3.52	0.17643
7.35	1.09	37.8	176.97	2.73	1.090	0.038	3.47	0.17697
7.36	1.12	38.79	178.5	2.8	1.120	0.039	3.46	0.1785
7.37	1.13	39.97	178.77	2.8	1.130	0.040	3.54	0.17877
7.38	1.15	40.86	179.22	2.8	1.150	0.041	3.55	0.17922
7.39	1.17	41.88	179.22	2.8	1.170	0.042	3.58	0.17922
7.4	1.19	42.96	179.04	2.8	1.190	0.043	3.61	0.17904
7.41	1.2	44.87	179.76	2.8	1.200	0.045	3.74	0.17976

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.42	1.19	46.85	179.85	2.8	1.190	0.047	3.94	0.17985
7.43	1.2	48.37	179.94	2.8	1.200	0.048	4.03	0.17994
7.44	1.18	50.48	181.38	2.8	1.180	0.050	4.28	0.18138
7.45	1.18	53.57	182.83	2.8	1.180	0.054	4.54	0.18283
7.46	1.2	54.46	183.64	2.8	1.200	0.054	4.54	0.18364
7.47	1.2	54.46	183.64	2.8	1.200	0.054	4.54	0.18364
7.48	1.19	55.76	183.46	2.8	1.190	0.056	4.69	0.18346
7.49	1.2	57.13	183.37	2.8	1.200	0.057	4.76	0.18337
7.5	1.2	60.95	185.35	2.8	1.200	0.061	5.08	0.18535
7.51	1.2	63.34	186.43	2.8	1.200	0.063	5.28	0.18643
7.52	1.2	65.03	187.24	2.83	1.200	0.065	5.42	0.18724
7.53	1.21	66.37	188.05	2.83	1.210	0.066	5.49	0.18805
7.54	1.21	67	190.3	2.83	1.210	0.067	5.54	0.1903
7.55	1.23	66.97	192.92	2.83	1.230	0.067	5.44	0.19292
7.56	1.26	66.24	198.5	2.83	1.260	0.066	5.26	0.1985
7.57	1.28	65.38	200.76	2.83	1.280	0.065	5.11	0.20076
7.58	1.32	64.55	202.02	2.83	1.320	0.065	4.89	0.20202
7.59	1.35	64.33	202.02	2.83	1.350	0.064	4.77	0.20202
7.6	1.4	64.14	202.56	2.83	1.400	0.064	4.58	0.20256
7.61	1.38	64.78	210.4	2.83	1.380	0.065	4.69	0.2104
7.62	1.38	65.73	215.08	2.83	1.380	0.066	4.76	0.21508
7.63	1.38	66.14	215.53	2.83	1.380	0.066	4.79	0.21553
7.64	1.39	66.05	215.17	2.83	1.390	0.066	4.75	0.21517
7.65	1.42	65	214.54	2.83	1.420	0.065	4.58	0.21454
7.66	1.45	65	213.91	2.83	1.450	0.065	4.48	0.21391
7.67	1.47	66.02	213.82	2.83	1.470	0.066	4.49	0.21382
7.68	1.48	67.35	214.36	2.83	1.480	0.067	4.55	0.21436
7.69	1.48	68.98	214.99	2.83	1.480	0.069	4.66	0.21499
7.7	1.44	71.4	215.44	2.83	1.440	0.071	4.96	0.21544
7.71	1.41	73.85	216.07	2.85	1.410	0.074	5.24	0.21607
7.72	1.36	76.97	215.26	2.85	1.360	0.077	5.66	0.21526
7.73	1.31	79.04	214.99	2.85	1.310	0.079	6.03	0.21499
7.74	1.32	78.63	214.63	2.85	1.320	0.079	5.96	0.21463
7.75	1.37	76.59	214.36	2.85	1.370	0.077	5.59	0.21436
7.76	1.34	76.78	215.35	2.85	1.340	0.077	5.73	0.21535
7.77	1.32	79.07	217.34	2.85	1.320	0.079	5.99	0.21734
7.78	1.3	80.51	219.86	2.85	1.300	0.081	6.19	0.21986
7.79	1.31	80.57	220.94	2.85	1.310	0.081	6.15	0.22094
7.8	1.32	79.9	223.37	2.85	1.320	0.080	6.05	0.22337
7.81	1.32	79.9	223.37	2.85	1.320	0.080	6.05	0.22337
7.82	1.32	79.9	223.37	2.85	1.320	0.080	6.05	0.22337
7.83	1.34	73.95	214.18	2.85	1.340	0.074	5.52	0.21418
7.84	1.35	73.44	214	2.85	1.350	0.073	5.44	0.214
7.85	1.36	73.05	214.36	2.85	1.360	0.073	5.37	0.21436
7.86	1.36	73.63	214.45	2.85	1.360	0.074	5.41	0.21445
7.87	1.36	72.93	213.82	2.85	1.360	0.073	5.36	0.21382
7.88	1.38	72.42	213.91	2.85	1.380	0.072	5.25	0.21391
7.89	1.38	72.83	214.27	2.85	1.380	0.073	5.28	0.21427
7.9	1.38	73.5	213.91	2.85	1.380	0.074	5.33	0.21391
7.91	1.38	74.04	213.46	2.85	1.380	0.074	5.37	0.21346
7.92	1.39	75.7	214	2.92	1.390	0.076	5.45	0.214
7.93	1.38	77.26	214.63	2.87	1.380	0.077	5.60	0.21463
7.94	1.39	78.44	215.53	2.85	1.390	0.078	5.64	0.21553
7.95	1.41	78.76	216.44	2.87	1.410	0.079	5.59	0.21644
7.96	1.44	78.76	218.15	2.85	1.440	0.079	5.47	0.21815
7.97	1.44	79.52	219.5	2.94	1.440	0.080	5.52	0.2195
7.98	1.46	78.63	220.49	2.87	1.460	0.079	5.39	0.22049

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.99	1.52	77.1	223.55	2.87	1.520	0.077	5.07	0.22355
8	1.52	78.88	229.41	2.87	1.520	0.079	5.19	0.22941
8.01	1.52	80.51	230.67	2.94	1.520	0.081	5.30	0.23067
8.02	1.53	80.54	232.2	2.94	1.530	0.081	5.26	0.2322
8.03	1.57	79.46	234.37	2.94	1.570	0.079	5.06	0.23437
8.04	1.58	80.25	237.34	2.87	1.580	0.080	5.08	0.23734
8.05	1.65	79.87	240.31	2.87	1.650	0.080	4.84	0.24031
8.06	1.7	79.2	240.49	2.94	1.700	0.079	4.66	0.24049
8.07	1.65	78.95	239.68	2.87	1.650	0.079	4.78	0.23968
8.08	1.69	81.78	238.69	2.87	1.690	0.082	4.84	0.23869
8.09	1.63	83.18	236.98	2.87	1.630	0.083	5.10	0.23698
8.1	1.6	84.39	235	2.87	1.600	0.084	5.27	0.235
8.11	1.59	87.1	228.33	2.87	1.590	0.087	5.48	0.22833
8.12	1.56	88.88	207.06	2.87	1.560	0.089	5.70	0.20706
8.13	1.51	92.93	203.19	2.87	1.510	0.093	6.15	0.20319
8.14	1.47	94.17	166.88	2.87	1.470	0.094	6.41	0.16688
8.15	1.44	96.94	166.07	2.87	1.440	0.097	6.73	0.16607
8.16	1.37	97.7	169.85	2.87	1.370	0.098	7.13	0.16985
8.17	1.26	100.16	169.04	2.87	1.260	0.100	7.95	0.16904
8.18	1.21	101.24	168.95	2.87	1.210	0.101	8.37	0.16895
8.19	1.16	100.28	162.19	2.87	1.160	0.100	8.64	0.16219
8.2	1.12	99.14	160.66	2.87	1.120	0.099	8.85	0.16066
8.21	1.11	96.97	160.3	2.87	1.110	0.097	8.74	0.1603
8.22	1.1	93.25	162.64	2.87	1.100	0.093	8.48	0.16264
8.23	1.09	91.11	174.36	2.87	1.090	0.091	8.36	0.17436
8.24	1.08	87.99	176.07	2.87	1.080	0.088	8.15	0.17607
8.25	1.06	84.17	178.23	2.87	1.060	0.084	7.94	0.17823
8.26	1.09	78.91	181.38	2.9	1.090	0.079	7.24	0.18138
8.27	1.12	75.48	182.83	2.87	1.120	0.075	6.74	0.18283
8.28	1.17	71.75	183.82	2.9	1.170	0.072	6.13	0.18382
8.29	1.24	67.26	184.72	2.9	1.240	0.067	5.42	0.18472
8.3	1.3	64.46	186.34	2.9	1.300	0.064	4.96	0.18634
8.31	1.34	61.53	189.22	2.9	1.340	0.062	4.59	0.18922
8.32	1.36	60.64	193.46	2.9	1.360	0.061	4.46	0.19346
8.33	1.37	60.76	195.89	2.9	1.370	0.061	4.44	0.19589
8.34	1.38	60.73	200.22	2.9	1.380	0.061	4.40	0.20022
8.35	1.38	61.3	200.76	2.9	1.380	0.061	4.44	0.20076
8.36	1.38	60.95	201.39	2.9	1.380	0.061	4.42	0.20139
8.37	1.4	61.72	201.57	2.9	1.400	0.062	4.41	0.20157
8.38	1.36	64.3	201.57	2.9	1.360	0.064	4.73	0.20157
8.39	1.36	63.76	200.58	2.9	1.360	0.064	4.69	0.20058
8.4	1.35	65.19	200.31	2.9	1.350	0.065	4.83	0.20031
8.41	1.33	66.72	199.13	2.9	1.330	0.067	5.02	0.19913
8.42	1.23	68.76	198.41	2.9	1.230	0.069	5.59	0.19841
8.43	1.2	69.81	198.14	2.9	1.200	0.070	5.82	0.19814
8.44	1.12	70.03	197.24	2.9	1.120	0.070	6.25	0.19724
8.45	1.07	69.58	196.16	2.9	1.070	0.070	6.50	0.19616
8.46	1.02	67.83	195.44	2.9	1.020	0.068	6.65	0.19544
8.47	1	65.7	195.26	2.9	1.000	0.066	6.57	0.19526
8.48	1.02	62.35	196.16	2.9	1.020	0.062	6.11	0.19616
8.49	0.96	59.93	198.05	2.9	0.960	0.060	6.24	0.19805
8.5	0.92	57.2	196.79	2.9	0.920	0.057	6.22	0.19679
8.51	0.89	54.97	196.61	2.9	0.890	0.055	6.18	0.19661
8.52	0.87	51.94	196.43	2.9	0.870	0.052	5.97	0.19643
8.53	0.86	49.11	196.61	2.9	0.860	0.049	5.71	0.19661
8.54	0.87	44.97	196.79	2.9	0.870	0.045	5.17	0.19679
8.55	0.87	40.22	196.79	2.9	0.870	0.040	4.62	0.19679

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
8.56	0.89	36.53	197.33	2.9	0.890	0.037	4.10	0.19733
8.57	0.92	33.06	198.23	2.9	0.920	0.033	3.59	0.19823
8.58	0.96	29.78	199.86	2.92	0.960	0.030	3.10	0.19986
8.59	1.02	27.1	201.75	2.9	1.020	0.027	2.66	0.20175
8.6	1.09	25.54	203.19	2.9	1.090	0.026	2.34	0.20319
8.61	1.15	24.3	203.91	2.9	1.150	0.024	2.11	0.20391
8.62	1.2	23.69	204.09	2.92	1.200	0.024	1.97	0.20409
8.63	1.22	23.02	203.82	2.9	1.220	0.023	1.89	0.20382
8.64	1.22	22.1	203.82	2.9	1.220	0.022	1.81	0.20382
8.65	1.19	20.51	203.82	2.9	1.190	0.021	1.72	0.20382
8.66	1.15	20.25	203.73	2.9	1.150	0.020	1.76	0.20373
8.67	1.11	20.35	203.64	2.9	1.110	0.020	1.83	0.20364
8.68	1.09	21.11	203.46	2.9	1.090	0.021	1.94	0.20346
8.69	1.09	22.04	203.46	2.9	1.090	0.022	2.02	0.20346
8.7	1.11	22.16	203.46	2.92	1.110	0.022	2.00	0.20346
8.71	1.14	23.02	203.73	2.9	1.140	0.023	2.02	0.20373
8.72	1.17	24.33	204.45	2.92	1.170	0.024	2.08	0.20445
8.73	1.22	25.95	205.35	2.92	1.220	0.026	2.13	0.20535
8.74	1.27	27.48	206.61	2.92	1.270	0.027	2.16	0.20661
8.75	1.37	29.14	208.6	2.92	1.370	0.029	2.13	0.2086
8.76	1.48	29.74	210.67	2.92	1.480	0.030	2.01	0.21067
8.77	1.61	30.06	211.93	2.92	1.610	0.030	1.87	0.21193
8.78	1.74	31.08	213.28	2.92	1.740	0.031	1.79	0.21328
8.79	1.88	32.64	214.72	2.92	1.880	0.033	1.74	0.21472
8.8	2.02	34.81	215.8	2.92	2.020	0.035	1.72	0.2158
8.81	2.02	34.81	215.8	2.92	2.020	0.035	1.72	0.2158
8.82	2.02	34.81	215.8	2.92	2.020	0.035	1.72	0.2158
8.83	2.63	53.95	128.85	2.92	2.630	0.054	2.05	0.12885
8.84	2.72	54.74	97.22	2.92	2.720	0.055	2.01	0.09722
8.85	2.82	56.21	79.92	2.92	2.820	0.056	1.99	0.07992
8.86	2.89	58.02	66.77	2.92	2.890	0.058	2.01	0.06677
8.87	2.89	60.79	55.78	2.92	2.890	0.061	2.10	0.05578
8.88	2.85	61.91	23.7	2.92	2.850	0.062	2.17	0.0237
8.89	2.8	61.14	10.45	2.92	2.800	0.061	2.18	0.01045
8.9	2.77	56.59	9.91	2.92	2.770	0.057	2.04	0.00991
8.91	2.73	49.52	12.25	2.92	2.730	0.050	1.81	0.01225
8.92	2.69	45.22	13.16	2.92	2.690	0.045	1.68	0.01316
8.93	2.63	43.37	13.7	2.92	2.630	0.043	1.65	0.0137
8.94	2.54	43.82	14.15	2.92	2.540	0.044	1.73	0.01415
8.95	2.41	45.44	14.33	2.92	2.410	0.045	1.89	0.01433
8.96	2.28	46.94	14.87	2.92	2.280	0.047	2.06	0.01487
8.97	2.2	51.14	16.22	2.92	2.200	0.051	2.32	0.01622
8.98	2.14	54.74	17.39	2.92	2.140	0.055	2.56	0.01739
8.99	2.1	58.28	18.65	2.92	2.100	0.058	2.78	0.01865
9	2.06	59.74	19.91	2.92	2.060	0.060	2.90	0.01991
9.01	1.99	61.75	20.81	2.92	1.990	0.062	3.10	0.02081
9.02	1.91	60.86	21.17	2.92	1.910	0.061	3.19	0.02117
9.03	1.86	57.93	21.63	2.92	1.860	0.058	3.11	0.02163
9.04	1.88	57.16	22.17	2.92	1.880	0.057	3.04	0.02217
9.05	1.92	56.21	22.89	2.92	1.920	0.056	2.93	0.02289
9.06	1.98	57.13	23.61	2.92	1.980	0.057	2.89	0.02361
9.07	2.12	57.8	24.42	2.92	2.120	0.058	2.73	0.02442
9.08	2.37	62.04	25.41	2.92	2.370	0.062	2.62	0.02541
9.09	2.59	65.09	26.22	2.92	2.590	0.065	2.51	0.02622
9.1	2.85	64.3	26.85	2.92	2.850	0.064	2.26	0.02685
9.11	3.09	62.58	26.94	2.92	3.090	0.063	2.03	0.02694
9.12	3.25	62.99	26.67	2.92	3.250	0.063	1.94	0.02667

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.13	3.37	63.92	26.04	2.92	3.370	0.064	1.90	0.02604
9.14	3.48	66.02	25.23	2.95	3.480	0.066	1.90	0.02523
9.15	3.55	65	24.15	2.92	3.550	0.065	1.83	0.02415
9.16	3.54	59.97	21.9	2.95	3.540	0.060	1.69	0.0219
9.17	3.45	54.9	19.28	2.95	3.450	0.055	1.59	0.01928
9.18	3.27	51.4	15.41	2.95	3.270	0.051	1.57	0.01541
9.19	3.05	48.06	12.16	2.95	3.050	0.048	1.58	0.01216
9.2	2.87	45.79	9.46	2.92	2.870	0.046	1.60	0.00946
9.21	2.77	44.55	6.94	2.92	2.770	0.045	1.61	0.00694
9.22	2.72	43.88	5.5	2.92	2.720	0.044	1.61	0.0055
9.23	2.68	45.25	5.41	2.92	2.680	0.045	1.69	0.00541
9.24	2.62	51.21	6.49	2.92	2.620	0.051	1.95	0.00649
9.25	2.51	56.46	7.21	2.92	2.510	0.056	2.25	0.00721
9.26	2.36	61.34	7.48	2.92	2.360	0.061	2.60	0.00748
9.27	2.22	63.09	7.66	2.92	2.220	0.063	2.84	0.00766
9.28	2.11	63.47	7.93	2.92	2.110	0.063	3.01	0.00793
9.29	1.99	62.26	8.38	2.92	1.990	0.062	3.13	0.00838
9.3	1.86	61.34	8.74	2.92	1.860	0.061	3.30	0.00874
9.31	1.71	57.26	9.01	2.92	1.710	0.057	3.35	0.00901
9.32	1.59	53.37	9.28	2.92	1.590	0.053	3.36	0.00928
9.33	1.53	50.6	9.64	2.95	1.530	0.051	3.31	0.00964
9.34	1.52	50.6	10.45	2.95	1.520	0.051	3.33	0.01045
9.35	1.48	50.32	11.17	2.92	1.480	0.050	3.40	0.01117
9.36	1.44	48.34	11.8	2.92	1.440	0.048	3.36	0.0118
9.37	1.39	46.4	12.52	2.95	1.390	0.046	3.34	0.01252
9.38	1.36	45.54	13.79	2.95	1.360	0.046	3.35	0.01379
9.39	1.33	43.47	15.23	2.95	1.330	0.043	3.27	0.01523
9.4	1.31	39.74	17.12	2.95	1.310	0.040	3.03	0.01712
9.41	1.3	36.62	18.83	2.95	1.300	0.037	2.82	0.01883
9.42	1.28	35	20.09	2.95	1.280	0.035	2.73	0.02009
9.43	1.25	33.95	21.54	2.92	1.250	0.034	2.72	0.02154
9.44	1.22	32.29	22.71	2.95	1.220	0.032	2.65	0.02271
9.45	1.19	30.51	24.33	2.95	1.190	0.031	2.56	0.02433
9.46	1.17	30.38	26.31	2.95	1.170	0.030	2.60	0.02631
9.47	1.14	31.02	28.92	2.95	1.140	0.031	2.72	0.02892
9.48	1.13	30.64	32.71	2.95	1.130	0.031	2.71	0.03271
9.49	1.12	29.39	38.39	2.95	1.120	0.029	2.62	0.03839
9.5	1.1	28.44	56.05	2.95	1.100	0.028	2.59	0.05605
9.51	1.1	27.93	69.2	2.95	1.100	0.028	2.54	0.0692
9.52	1.1	26.69	78.57	2.95	1.100	0.027	2.43	0.07857
9.53	1.11	25.64	98.31	2.95	1.110	0.026	2.31	0.09831
9.54	1.14	25.19	148.13	2.95	1.140	0.025	2.21	0.14813
9.55	1.19	25.45	157.87	2.95	1.190	0.025	2.14	0.15787
9.56	1.27	25.13	161.65	2.95	1.270	0.025	1.98	0.16165
9.57	1.34	24.27	163.99	2.95	1.340	0.024	1.81	0.16399
9.58	1.42	23.88	163.81	2.95	1.420	0.024	1.68	0.16381
9.59	1.5	25.13	161.56	2.95	1.500	0.025	1.68	0.16156
9.6	1.58	26.24	161.38	2.95	1.580	0.026	1.66	0.16138
9.61	1.64	26.85	161.02	2.88	1.640	0.027	1.64	0.16102
9.62	1.64	27.61	159.94	2.95	1.640	0.028	1.68	0.15994
9.63	1.61	28.47	158.86	2.95	1.610	0.028	1.77	0.15886
9.64	1.59	30	157.69	2.95	1.590	0.030	1.89	0.15769
9.65	1.54	31.69	156.97	2.95	1.540	0.032	2.06	0.15697
9.66	1.5	33.76	156.88	2.95	1.500	0.034	2.25	0.15688
9.67	1.47	35.06	156.88	2.88	1.470	0.035	2.39	0.15688
9.68	1.43	34.23	156.24	2.88	1.430	0.034	2.39	0.15624
9.69	1.4	34.17	155.52	2.88	1.400	0.034	2.44	0.15552

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.7	1.39	34.55	155.25	2.95	1.390	0.035	2.49	0.15525
9.71	1.36	33.95	155.61	2.95	1.360	0.034	2.50	0.15561
9.72	1.32	33.53	156.33	2.88	1.320	0.034	2.54	0.15633
9.73	1.29	34.01	157.6	2.88	1.290	0.034	2.64	0.1576
9.74	1.29	33.44	159.4	2.95	1.290	0.033	2.59	0.1594
9.75	1.34	32.96	161.02	2.95	1.340	0.033	2.46	0.16102
9.76	1.38	33.73	162.1	2.95	1.380	0.034	2.44	0.1621
9.77	1.39	33.28	162.64	2.95	1.390	0.033	2.39	0.16264
9.78	1.43	32.77	162.82	2.88	1.430	0.033	2.29	0.16282
9.79	1.45	31.46	162.73	2.88	1.450	0.031	2.17	0.16273
9.8	1.43	29.81	162.91	2.88	1.430	0.030	2.08	0.16291
9.81	1.43	29.81	162.91	2.88	1.430	0.030	2.08	0.16291
9.82	1.43	29.81	162.91	2.88	1.430	0.030	2.08	0.16291
9.83	1.75	37.74	141.65	2.88	1.750	0.038	2.16	0.14165
9.84	1.77	39.74	142.01	2.88	1.770	0.040	2.25	0.14201
9.85	1.78	40.54	141.38	2.88	1.780	0.041	2.28	0.14138
9.86	1.77	42.23	140.75	2.88	1.770	0.042	2.39	0.14075
9.87	1.7	41.78	140.03	2.88	1.700	0.042	2.46	0.14003
9.88	1.6	38.15	139.57	2.88	1.600	0.038	2.38	0.13957
9.89	1.49	36.08	139.75	2.88	1.490	0.036	2.42	0.13975
9.9	1.39	34.55	141.11	2.88	1.390	0.035	2.49	0.14111
9.91	1.35	33.6	142.46	2.88	1.350	0.034	2.49	0.14246
9.92	1.35	33.6	142.46	2.88	1.350	0.034	2.49	0.14246
9.93	1.29	32.13	144.17	2.88	1.290	0.032	2.49	0.14417
9.94	1.27	30.6	144.8	2.88	1.270	0.031	2.41	0.1448
9.95	1.25	29.01	145.79	2.88	1.250	0.029	2.32	0.14579
9.96	1.25	29.08	146.69	2.88	1.250	0.029	2.33	0.14669
9.97	1.22	30.48	147.5	2.88	1.220	0.030	2.50	0.1475
9.98	1.18	31.02	148.5	2.88	1.180	0.031	2.63	0.1485
9.99	1.16	30.92	149.94	2.91	1.160	0.031	2.67	0.14994
10	1.15	30.09	151.56	2.88	1.150	0.030	2.62	0.15156
10.01	1.16	29.04	153.27	2.91	1.160	0.029	2.50	0.15327
10.02	1.14	27.07	154.71	2.91	1.140	0.027	2.37	0.15471
10.03	1.14	23.76	156.6	2.91	1.140	0.024	2.08	0.1566
10.04	1.14	21.97	158.77	2.91	1.140	0.022	1.93	0.15877
10.05	1.16	21.72	161.47	2.91	1.160	0.022	1.87	0.16147
10.06	1.16	21.53	164.35	2.91	1.160	0.022	1.86	0.16435
10.07	1.15	22.13	166.61	2.91	1.150	0.022	1.92	0.16661
10.08	1.14	22.23	169.4	2.91	1.140	0.022	1.95	0.1694
10.09	1.15	22.32	173	2.91	1.150	0.022	1.94	0.173
10.1	1.18	21.59	176.07	2.84	1.180	0.022	1.83	0.17607
10.11	1.2	21.08	180.57	2.84	1.200	0.021	1.76	0.18057
10.12	1.2	21.53	184.45	2.84	1.200	0.022	1.79	0.18445
10.13	1.2	22.13	186.7	2.84	1.200	0.022	1.84	0.1867
10.14	1.18	23.18	189.49	2.84	1.180	0.023	1.96	0.18949
10.15	1.16	23.34	193.82	2.84	1.160	0.023	2.01	0.19382
10.16	1.15	23.28	193.1	2.84	1.150	0.023	2.02	0.1931
10.17	1.14	23.41	196.97	2.84	1.140	0.023	2.05	0.19697
10.18	1.15	24.14	199.77	2.84	1.150	0.024	2.10	0.19977
10.19	1.16	24.52	205.35	2.84	1.160	0.025	2.11	0.20535
10.2	1.17	25.25	208.42	2.84	1.170	0.025	2.16	0.20842
10.21	1.18	25.86	209.5	2.84	1.180	0.026	2.19	0.2095
10.22	1.18	26.15	209.59	2.84	1.180	0.026	2.22	0.20959
10.23	1.17	27.23	209.68	2.84	1.170	0.027	2.33	0.20968
10.24	1.16	27.87	208.96	2.84	1.160	0.028	2.40	0.20896
10.25	1.15	28.5	208.42	2.84	1.150	0.029	2.48	0.20842
10.26	1.16	29.08	207.51	2.84	1.160	0.029	2.51	0.20751

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.27	1.16	30.19	206.61	2.84	1.160	0.030	2.60	0.20661
10.28	1.15	32.13	207.06	2.84	1.150	0.032	2.79	0.20706
10.29	1.12	33.79	208.51	2.84	1.120	0.034	3.02	0.20851
10.3	1.12	34.71	210.76	2.88	1.120	0.035	3.10	0.21076
10.31	1.11	35.76	211.93	2.81	1.110	0.036	3.22	0.21193
10.32	1.1	36.4	214.09	2.81	1.100	0.036	3.31	0.21409
10.33	1.09	36.81	216.44	2.81	1.090	0.037	3.38	0.21644
10.34	1.09	36.59	219.68	2.81	1.090	0.037	3.36	0.21968
10.35	1.08	37.1	221.75	2.81	1.080	0.037	3.44	0.22175
10.36	1.06	37.13	224.64	2.81	1.060	0.037	3.50	0.22464
10.37	1.05	36.69	230.85	2.81	1.050	0.037	3.49	0.23085
10.38	1.07	35.73	234.46	2.81	1.070	0.036	3.34	0.23446
10.39	1.12	34.11	242.75	2.81	1.120	0.034	3.05	0.24275
10.4	1.18	33.06	254.1	2.81	1.180	0.033	2.80	0.2541
10.41	1.23	32.42	263.83	2.81	1.230	0.032	2.64	0.26383
10.42	1.26	30.86	271.67	2.81	1.260	0.031	2.45	0.27167
10.43	1.29	29.33	271.76	2.81	1.290	0.029	2.27	0.27176
10.44	1.35	27.45	271.22	2.81	1.350	0.027	2.03	0.27122
10.45	1.32	28.02	264.91	2.85	1.320	0.028	2.12	0.26491
10.46	1.28	29.43	277.62	2.85	1.280	0.029	2.30	0.27762
10.47	1.26	30.13	283.11	2.85	1.260	0.030	2.39	0.28311
10.48	1.26	30.29	285.64	2.85	1.260	0.030	2.40	0.28564
10.49	1.26	30.76	286.09	2.85	1.260	0.031	2.44	0.28609
10.5	1.25	31.4	280.68	2.85	1.250	0.031	2.51	0.28068
10.51	1.22	32.26	312.04	2.85	1.220	0.032	2.64	0.31204
10.52	1.21	33.25	313.66	2.85	1.210	0.033	2.75	0.31366
10.53	1.18	34.01	312.49	2.85	1.180	0.034	2.88	0.31249
10.54	1.17	34.14	310.69	2.85	1.170	0.034	2.92	0.31069
10.55	1.16	34.68	308.43	2.85	1.160	0.035	2.99	0.30843
10.56	1.13	35.51	306.27	2.85	1.130	0.036	3.14	0.30627
10.57	1.1	36.5	303.75	2.85	1.100	0.037	3.32	0.30375
10.58	1.08	37.29	301.05	2.85	1.080	0.037	3.45	0.30105
10.59	1.04	36.94	298.52	2.85	1.040	0.037	3.55	0.29852
10.6	1.01	35.99	296.72	2.85	1.010	0.036	3.56	0.29672
10.61	1.02	35.65	286.66	2.91	1.020	0.036	3.50	0.28666
10.62	1.05	34.58	254.85	2.91	1.050	0.035	3.29	0.25485
10.63	1.06	34.21	241.32	2.91	1.060	0.034	3.23	0.24132
10.64	1.1	32.15	233.65	2.91	1.100	0.032	2.92	0.23365
10.65	1.15	32.14	201.23	2.91	1.150	0.032	2.79	0.20123
10.66	1.2	32.23	154.53	2.91	1.200	0.032	2.69	0.15453
10.67	1.14	32.93	154.08	2.91	1.140	0.033	2.89	0.15408
10.68	1.09	32.42	153.99	2.85	1.090	0.032	2.97	0.15399
10.69	1.05	31.72	154.26	2.91	1.050	0.032	3.02	0.15426
10.7	1.02	30.51	154.8	2.85	1.020	0.031	2.99	0.1548
10.71	1	29.46	155.79	2.85	1.000	0.029	2.95	0.15579
10.72	0.97	26.97	158.95	2.85	0.970	0.027	2.78	0.15895
10.73	0.96	25.19	160.57	2.85	0.960	0.025	2.62	0.16057
10.74	0.96	23.5	162.46	2.85	0.960	0.024	2.45	0.16246
10.75	0.96	22.01	164.26	2.85	0.960	0.022	2.29	0.16426
10.76	0.97	20.86	166.25	2.85	0.970	0.021	2.15	0.16625
10.77	0.98	20	168.5	2.85	0.980	0.020	2.04	0.1685
10.78	0.98	18.92	170.66	2.85	0.980	0.019	1.93	0.17066
10.79	0.99	17.83	172.73	2.85	0.990	0.018	1.80	0.17273
10.8	1.01	15.6	176.34	2.85	1.010	0.016	1.54	0.17634
10.81	1.02	14.68	177.87	2.85	1.020	0.015	1.44	0.17787
10.82	1.03	14.3	179.4	2.85	1.030	0.014	1.39	0.1794
10.83	1.02	14.49	181.29	2.85	1.020	0.014	1.42	0.18129

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.84	1.02	14.33	183.28	2.85	1.020	0.014	1.40	0.18328
10.85	1.03	13.92	185.62	2.85	1.030	0.014	1.35	0.18562
10.86	1.05	13.6	188.05	2.85	1.050	0.014	1.30	0.18805
10.87	1.07	13.82	190.03	2.85	1.070	0.014	1.29	0.19003
10.88	1.08	14.55	191.57	2.85	1.080	0.015	1.35	0.19157
10.89	1.08	16.46	194.27	2.85	1.080	0.016	1.52	0.19427
10.9	1.07	17.13	195.98	2.85	1.070	0.017	1.60	0.19598
10.91	1.07	17.9	197.24	2.88	1.070	0.018	1.67	0.19724
10.92	1.06	18.63	197.96	2.88	1.060	0.019	1.76	0.19796
10.93	1.05	19.39	198.68	2.85	1.050	0.019	1.85	0.19868
10.94	1.04	20.09	199.32	2.88	1.040	0.020	1.93	0.19932
10.95	1.03	20.41	200.13	2.85	1.030	0.020	1.98	0.20013
10.96	1.02	20.35	201.21	2.85	1.020	0.020	2.00	0.20121
10.97	1.01	20.03	202.38	2.85	1.010	0.020	1.98	0.20238
10.98	0.99	20.41	204.63	2.85	0.990	0.020	2.06	0.20463
10.99	0.98	20.89	206.25	2.88	0.980	0.021	2.13	0.20625
11	0.97	20.92	207.6	2.88	0.970	0.021	2.16	0.2076
11.01	0.96	21.11	209.59	2.88	0.960	0.021	2.20	0.20959
11.02	0.95	21.24	212.47	2.82	0.950	0.021	2.24	0.21247
11.03	0.94	20.89	214.72	2.82	0.940	0.021	2.22	0.21472
11.04	0.93	20.32	217.7	2.82	0.930	0.020	2.18	0.2177
11.05	0.93	19.87	220.13	2.82	0.930	0.020	2.14	0.22013
11.06	0.92	19.08	222.11	2.82	0.920	0.019	2.07	0.22211
11.07	0.94	18.06	225	2.82	0.940	0.018	1.92	0.225
11.08	0.94	17.9	226.26	2.82	0.940	0.018	1.90	0.22626
11.09	0.93	18.09	227.34	2.82	0.930	0.018	1.95	0.22734
11.1	0.93	18.06	227.97	2.82	0.930	0.018	1.94	0.22797
11.11	0.93	18.22	228.51	2.82	0.930	0.018	1.96	0.22851
11.12	0.94	18.38	228.96	2.82	0.940	0.018	1.96	0.22896
11.13	0.94	18.69	229.86	2.82	0.940	0.019	1.99	0.22986
11.14	0.94	19.49	231.21	2.82	0.940	0.019	2.07	0.23121
11.15	0.94	20.92	232.47	2.82	0.940	0.021	2.23	0.23247
11.16	0.93	21.08	228.69	2.82	0.930	0.021	2.27	0.22869
11.17	0.93	21.37	229.32	2.82	0.930	0.021	2.30	0.22932
11.18	0.89	21.75	229.95	2.82	0.890	0.022	2.44	0.22995
11.19	0.89	22.61	231.48	2.82	0.890	0.023	2.54	0.23148
11.2	0.85	22.52	233.2	2.82	0.850	0.023	2.65	0.2332
11.21	0.85	22.8	236.17	2.82	0.850	0.023	2.68	0.23617
11.22	0.86	22.39	240.13	2.82	0.860	0.022	2.60	0.24013
11.23	0.88	21.75	245.45	2.82	0.880	0.022	2.47	0.24545
11.24	0.89	21.56	249.59	2.82	0.890	0.022	2.42	0.24959
11.25	0.9	21.08	254.64	2.82	0.900	0.021	2.34	0.25464
11.26	0.92	20.38	258.61	2.82	0.920	0.020	2.22	0.25861
11.27	0.93	19.59	262.03	2.82	0.930	0.020	2.11	0.26203
11.28	0.94	19.39	264.28	2.82	0.940	0.019	2.06	0.26428
11.29	0.94	19.24	266.08	2.82	0.940	0.019	2.05	0.26608
11.3	0.94	19.01	267.17	2.82	0.940	0.019	2.02	0.26717
11.31	0.93	19.01	268.43	2.82	0.930	0.019	2.04	0.26843
11.32	0.94	18.79	269.6	2.82	0.940	0.019	2.00	0.2696
11.33	0.94	18.53	270.68	2.82	0.940	0.019	1.97	0.27068
11.34	0.92	19.87	272.66	2.82	0.920	0.020	2.16	0.27266
11.35	0.92	19.78	274.19	2.82	0.920	0.020	2.15	0.27419
11.36	0.92	20.13	276	2.82	0.920	0.020	2.19	0.276
11.37	0.92	20.32	278.07	2.82	0.920	0.020	2.21	0.27807
11.38	0.93	19.9	279.96	2.82	0.930	0.020	2.14	0.27996
11.39	0.94	19.49	281.31	2.82	0.940	0.019	2.07	0.28131
11.4	0.95	19.65	282.3	2.82	0.950	0.020	2.07	0.2823

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.41	0.95	20.45	284.11	2.75	0.950	0.020	2.15	0.28411
11.42	0.95	20.45	284.92	2.85	0.950	0.020	2.15	0.28492
11.43	0.94	20.73	285.46	2.79	0.940	0.021	2.21	0.28546
11.44	0.93	20.7	285.64	2.79	0.930	0.021	2.23	0.28564
11.45	0.93	20.73	286.36	2.79	0.930	0.021	2.23	0.28636
11.46	0.92	20.8	287.08	2.79	0.920	0.021	2.26	0.28708
11.47	0.92	20.38	287.62	2.79	0.920	0.020	2.22	0.28762
11.48	0.91	20.16	288.16	2.79	0.910	0.020	2.22	0.28816
11.49	0.91	20.09	288.7	2.79	0.910	0.020	2.21	0.2887
11.5	0.91	20	290.95	2.79	0.910	0.020	2.20	0.29095
11.51	0.91	19.97	291.76	2.79	0.910	0.020	2.19	0.29176
11.52	0.91	20	291.31	2.79	0.910	0.020	2.20	0.29131
11.53	0.9	20.29	290.86	2.79	0.900	0.020	2.25	0.29086
11.54	0.89	20.48	290.59	2.79	0.890	0.020	2.30	0.29059
11.55	0.89	20.57	291.76	2.79	0.890	0.021	2.31	0.29176
11.56	0.88	20.38	293.75	2.79	0.880	0.020	2.32	0.29375
11.57	0.88	19.97	299.33	2.79	0.880	0.020	2.27	0.29933
11.58	0.88	19.68	301.68	2.79	0.880	0.020	2.24	0.30168
11.59	0.89	19.08	303.48	2.79	0.890	0.019	2.14	0.30348
11.6	0.9	18.63	304.74	2.79	0.900	0.019	2.07	0.30474
11.61	0.9	18.12	305.37	2.79	0.900	0.018	2.01	0.30537
11.62	0.9	17.83	306.09	2.79	0.900	0.018	1.98	0.30609
11.63	0.9	17.67	306.27	2.79	0.900	0.018	1.96	0.30627
11.64	0.9	17.67	306.27	2.79	0.900	0.018	1.96	0.30627
11.65	0.9	17.67	306.27	2.79	0.900	0.018	1.96	0.30627
11.66	0.91	19.01	464.86	2.79	0.910	0.019	2.09	0.46486
11.67	0.9	19.08	462.52	2.73	0.900	0.019	2.12	0.46252
11.68	0.89	19.01	460.62	2.79	0.890	0.019	2.14	0.46062
11.69	0.88	18.92	459.27	2.79	0.880	0.019	2.15	0.45927
11.7	0.87	18.85	459.54	2.79	0.870	0.019	2.17	0.45954
11.71	0.87	18.73	462.25	2.79	0.870	0.019	2.15	0.46225
11.72	0.88	17.96	464.32	2.79	0.880	0.018	2.04	0.46432
11.73	0.88	17.83	464.23	2.79	0.880	0.018	2.03	0.46423
11.74	0.88	18.09	464.86	2.73	0.880	0.018	2.06	0.46486
11.75	0.88	18.12	466.21	2.77	0.880	0.018	2.06	0.46621
11.76	0.89	18.02	467.2	2.77	0.890	0.018	2.02	0.4672
11.77	0.89	17.96	468.55	2.73	0.890	0.018	2.02	0.46855
11.78	0.89	17.64	468.28	2.73	0.890	0.018	1.98	0.46828
11.79	0.88	17.32	467.92	2.77	0.880	0.017	1.97	0.46792
11.8	0.88	16.43	466.03	2.77	0.880	0.016	1.87	0.46603
11.81	0.88	16.24	464.86	2.77	0.880	0.016	1.85	0.46486
11.82	0.88	16.24	463.87	2.77	0.880	0.016	1.85	0.46387
11.83	0.88	16.15	463.78	2.77	0.880	0.016	1.84	0.46378
11.84	0.88	16.08	463.33	2.77	0.880	0.016	1.83	0.46333
11.85	0.88	16.05	463.51	2.77	0.880	0.016	1.82	0.46351
11.86	0.88	16.24	462.88	2.77	0.880	0.016	1.85	0.46288
11.87	0.87	16.4	462.07	2.77	0.870	0.016	1.89	0.46207
11.88	0.86	16.21	458.55	2.77	0.860	0.016	1.88	0.45855
11.89	0.86	16.37	457.47	2.77	0.860	0.016	1.90	0.45747
11.9	0.86	16.4	455.04	2.77	0.860	0.016	1.91	0.45504
11.91	0.85	16.34	453.42	2.77	0.850	0.016	1.92	0.45342
11.92	0.85	16.43	452.33	2.77	0.850	0.016	1.93	0.45233
11.93	0.84	16.56	451.97	2.77	0.840	0.017	1.97	0.45197
11.94	0.84	16.72	452.6	2.77	0.840	0.017	1.99	0.4526
11.95	0.84	16.78	453.32	2.77	0.840	0.017	2.00	0.45332
11.96	0.83	16.78	449.72	2.77	0.830	0.017	2.02	0.44972
11.97	0.83	16.75	456.03	2.77	0.830	0.017	2.02	0.45603

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 04		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.98	0.85	16.62	462.43	2.77	0.850	0.017	1.96	0.46243
11.99	0.86	16.24	466.03	2.77	0.860	0.016	1.89	0.46603
12	0.87	15.99	466.57	2.77	0.870	0.016	1.84	0.46657
12.01	0.87	15.99	466.84	2.77	0.870	0.016	1.84	0.46684
12.02	0.88	16.11	467.02	2.77	0.880	0.016	1.83	0.46702
12.03	0.88	16.21	466.39	2.77	0.880	0.016	1.84	0.46639
12.04	0.88	17.13	463.69	2.77	0.880	0.017	1.95	0.46369
12.05	0.88	17.61	463.6	2.77	0.880	0.018	2.00	0.4636
12.06	0.87	17.71	462.25	2.77	0.870	0.018	2.04	0.46225
12.07	0.87	17.83	461.61	2.77	0.870	0.018	2.05	0.46161
12.08	0.86	17.96	461.34	2.77	0.860	0.018	2.09	0.46134
12.09	0.86	17.8	463.51	2.77	0.860	0.018	2.07	0.46351
12.1	0.87	17.64	467.65	2.77	0.870	0.018	2.03	0.46765
12.11	0.88	17.48	475.94	2.77	0.880	0.017	1.99	0.47594
12.12	0.89	17.55	479.37	2.77	0.890	0.018	1.97	0.47937
12.13	0.89	17.67	483.06	2.81	0.890	0.018	1.99	0.48306
12.14	0.9	17.77	487.48	2.77	0.900	0.018	1.97	0.48748
12.15	0.91	17.67	491.62	2.77	0.910	0.018	1.94	0.49162
12.16	0.93	17.64	494.32	2.77	0.930	0.018	1.90	0.49432
12.17	0.94	17.71	495.67	2.77	0.940	0.018	1.88	0.49567
12.18	0.94	17.71	495.67	2.71	0.940	0.018	1.88	0.49567
12.19	0.94	17.64	492.7	2.81	0.940	0.018	1.88	0.4927
12.2	0.93	17.83	490.72	2.81	0.930	0.018	1.92	0.49072
12.21	0.93	17.9	489.1	2.81	0.930	0.018	1.92	0.4891
12.22	0.93	18.63	485.31	2.81	0.930	0.019	2.00	0.48531
12.23	0.92	19.3	482.43	2.75	0.920	0.019	2.10	0.48243
12.24	0.91	19.97	479.73	2.81	0.910	0.020	2.19	0.47973
12.25	0.91	20.45	476.03	2.71	0.910	0.020	2.25	0.47603
12.26	0.9	20.95	472.61	2.81	0.900	0.021	2.33	0.47261
12.27	0.89	21.43	468.28	2.75	0.890	0.021	2.41	0.46828
12.28	0.88	22.01	463.6	2.75	0.880	0.022	2.50	0.4636
12.29	0.88	22.71	457.83	2.75	0.880	0.023	2.58	0.45783
12.3	0.86	23.88	448.82	2.75	0.860	0.024	2.78	0.44882
12.31	0.85	24.2	441.61	2.75	0.850	0.024	2.85	0.44161
12.32	0.85	24.3	439.63	2.75	0.850	0.024	2.86	0.43963
12.33	0.85	24.55	437.11	2.75	0.850	0.025	2.89	0.43711
12.34	0.84	24.97	436.02	2.75	0.840	0.025	2.97	0.43602
12.35	0.83	25.32	436.66	2.75	0.830	0.025	3.05	0.43666
12.36	0.83	25.41	435.75	2.75	0.830	0.025	3.06	0.43575
12.37	0.83	25.6	434.13	2.75	0.830	0.026	3.08	0.43413
12.38	0.83	26.05	433.95	2.75	0.830	0.026	3.14	0.43395
12.39	0.84	26.66	435.12	2.75	0.840	0.027	3.17	0.43512
12.4	0.83	26.97	435.93	2.75	0.830	0.027	3.25	0.43593
12.41	0.84	26.97	435.75	2.75	0.840	0.027	3.21	0.43575
12.42	0.85	26.69	434.58	2.75	0.850	0.027	3.14	0.43458
12.43	0.85	26.81	432.69	2.75	0.850	0.027	3.15	0.43269
12.44	0.85	27.2	431.07	2.75	0.850	0.027	3.20	0.43107
12.45	0.84	28.22	428.82	2.75	0.840	0.028	3.36	0.42882
12.46	0.83	28.98	427.64	2.75	0.830	0.029	3.49	0.42764
12.47	0.83	29.55	428.55	2.75	0.830	0.030	3.56	0.42855
12.48	0.83	29.39	426.47	2.75	0.830	0.029	3.54	0.42647
12.49	0.84	29.01	424.76	2.75	0.840	0.029	3.45	0.42476
12.5	0.83	29.3	423.05	2.75	0.830	0.029	3.53	0.42305
12.51	0.83	29.49	421.43	2.75	0.830	0.029	3.55	0.42143
12.52	0.82	29.71	418.45	2.75	0.820	0.030	3.62	0.41845
12.53	0.82	29.71	417.01	2.75	0.820	0.030	3.62	0.41701
12.54	0.82	30	414.85	2.75	0.820	0.030	3.66	0.41485

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
12.55	0.81	30.48	415.57	2.75	0.810	0.030	3.76	0.41557
12.56	0.81	30.57	416.83	2.75	0.810	0.031	3.77	0.41683
12.57	0.81	30.32	417.19	2.75	0.810	0.030	3.74	0.41719
12.58	0.81	29.87	417.37	2.75	0.810	0.030	3.69	0.41737
12.59	0.81	29.23	417.01	2.75	0.810	0.029	3.61	0.41701
12.6	0.81	28.88	415.57	2.75	0.810	0.029	3.57	0.41557
12.61	0.82	28.47	415.57	2.75	0.820	0.028	3.47	0.41557
12.62	0.81	28.82	415.75	2.75	0.810	0.029	3.56	0.41575
12.63	0.81	28.82	415.75	2.75	0.810	0.029	3.56	0.41575
12.64	0.81	28.82	415.75	2.75	0.810	0.029	3.56	0.41575
12.65	0.88	29.71	427.19	2.74	0.880	0.030	3.38	0.42719
12.66	0.92	29.39	446.84	2.74	0.920	0.029	3.19	0.44684
12.67	0.95	29.17	461.43	2.74	0.950	0.029	3.07	0.46143
12.68	0.84	30.09	397.55	2.74	0.840	0.030	3.58	0.39755
12.69	0.8	31.21	401.24	2.74	0.800	0.031	3.90	0.40124
12.7	0.78	30.86	405.66	2.74	0.780	0.031	3.96	0.40566
12.71	0.78	30.32	408.27	2.74	0.780	0.030	3.89	0.40827
12.72	0.78	29.49	410.43	2.74	0.780	0.029	3.78	0.41043
12.73	0.79	28.82	413.32	2.74	0.790	0.029	3.65	0.41332
12.74	0.8	28.09	415.12	2.74	0.800	0.028	3.51	0.41512
12.75	0.81	27.26	417.91	2.74	0.810	0.027	3.37	0.41791
12.76	0.97	26.11	458.82	2.74	0.970	0.026	2.69	0.45882
12.77	1.03	25.76	475.85	2.74	1.030	0.026	2.50	0.47585
12.78	1.06	25.13	477.74	2.74	1.060	0.025	2.37	0.47774
12.79	1.05	24.81	420.89	2.74	1.050	0.025	2.36	0.42089
12.8	1.01	23.88	369.89	2.74	1.010	0.024	2.36	0.36989
12.81	0.95	24.27	356.91	2.74	0.950	0.024	2.55	0.35691
12.82	0.91	26.81	293.03	2.74	0.910	0.027	2.95	0.29303
12.83	0.87	27.74	307.71	2.68	0.870	0.028	3.19	0.30771
12.84	0.81	28.02	367.36	2.74	0.810	0.028	3.46	0.36736
12.85	0.8	28.18	387.37	2.74	0.800	0.028	3.52	0.38737
12.86	0.8	28.18	396.65	2.74	0.800	0.028	3.52	0.39665
12.87	0.81	28.06	402.96	2.79	0.810	0.028	3.46	0.40296
12.88	0.81	27.99	404.13	2.73	0.810	0.028	3.46	0.40413
12.89	0.82	28.12	406.29	2.79	0.820	0.028	3.43	0.40629
12.9	0.83	28.22	410.34	2.79	0.830	0.028	3.40	0.41034
12.91	0.83	28.22	415.66	2.79	0.830	0.028	3.40	0.41566
12.92	0.85	28.02	428.91	2.79	0.850	0.028	3.30	0.42891
12.93	0.87	29.39	456.57	2.79	0.870	0.029	3.38	0.45657
12.94	0.88	27.32	466.66	2.79	0.880	0.027	3.10	0.46666
12.95	0.88	26.11	467.02	2.79	0.880	0.026	2.97	0.46702
12.96	0.87	24.94	431.16	2.79	0.870	0.025	2.87	0.43116
12.97	0.89	24.08	388.54	2.79	0.890	0.024	2.71	0.38854
12.98	0.91	23.76	388.72	2.79	0.910	0.024	2.61	0.38872
12.99	0.89	23.18	301.68	2.79	0.890	0.023	2.60	0.30168
13	0.88	23.41	262.57	2.79	0.880	0.023	2.66	0.26257
13.01	0.85	23.82	289.6	2.79	0.850	0.024	2.80	0.2896
13.02	0.81	24.49	311.5	2.79	0.810	0.024	3.02	0.3115
13.03	0.78	24.49	308.52	2.79	0.780	0.024	3.14	0.30852
13.04	0.76	24.49	308.52	2.79	0.760	0.024	3.22	0.30852
13.05	0.73	24.78	307.53	2.79	0.730	0.025	3.39	0.30753
13.06	0.73	24.52	311.23	2.79	0.730	0.025	3.36	0.31123
13.07	0.7	24.27	315.37	2.79	0.700	0.024	3.47	0.31537
13.08	0.69	24.2	315.28	2.79	0.690	0.024	3.51	0.31528
13.09	0.68	23.76	312.31	2.79	0.680	0.024	3.49	0.31231
13.1	0.66	24.01	314.38	2.79	0.660	0.024	3.64	0.31438
13.11	0.65	23.69	314.83	2.79	0.650	0.024	3.64	0.31483

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.12	0.65	22.8	315.1	2.79	0.650	0.023	3.51	0.3151
13.13	0.65	21.94	312.22	2.79	0.650	0.022	3.38	0.31222
13.14	0.64	20.7	312.49	2.73	0.640	0.021	3.23	0.31249
13.15	0.64	20.38	311.14	2.73	0.640	0.020	3.18	0.31114
13.16	0.63	19.71	310.51	2.73	0.630	0.020	3.13	0.31051
13.17	0.62	18.76	308.97	2.73	0.620	0.019	3.03	0.30897
13.18	0.61	18.15	304.83	2.73	0.610	0.018	2.98	0.30483
13.19	0.59	16.72	300.96	2.73	0.590	0.017	2.83	0.30096
13.2	0.59	16.34	297.53	2.73	0.590	0.016	2.77	0.29753
13.21	0.59	15.99	292.94	2.73	0.590	0.016	2.71	0.29294
13.22	0.59	15.73	294.65	2.73	0.590	0.016	2.67	0.29465
13.23	0.59	15.51	296.09	2.73	0.590	0.016	2.63	0.29609
13.24	0.6	15.54	298.61	2.73	0.600	0.016	2.59	0.29861
13.25	0.61	16.05	301.86	2.73	0.610	0.016	2.63	0.30186
13.26	0.61	16.5	304.29	2.73	0.610	0.017	2.70	0.30429
13.27	0.61	16.66	302.31	2.73	0.610	0.017	2.73	0.30231
13.28	0.61	16.81	300.87	2.73	0.610	0.017	2.76	0.30087
13.29	0.62	16.88	299.69	2.73	0.620	0.017	2.72	0.29969
13.3	0.62	17.45	300.5	2.73	0.620	0.017	2.81	0.3005
13.31	0.62	18.31	300.96	2.73	0.620	0.018	2.95	0.30096
13.32	0.63	19.11	304.38	2.73	0.630	0.019	3.03	0.30438
13.33	0.64	19.78	311.05	2.67	0.640	0.020	3.09	0.31105
13.34	0.66	20.57	323.84	2.62	0.660	0.021	3.12	0.32384
13.35	0.74	20.73	347.09	2.62	0.740	0.021	2.80	0.34709
13.36	0.74	20.64	347.99	2.62	0.740	0.021	2.79	0.34799
13.37	0.72	20.67	341.95	2.62	0.720	0.021	2.87	0.34195
13.38	0.71	20.86	341.68	2.62	0.710	0.021	2.94	0.34168
13.39	0.7	21.08	339.16	2.62	0.700	0.021	3.01	0.33916
13.4	0.7	21.56	338.44	2.62	0.700	0.022	3.08	0.33844
13.41	0.69	22.39	337.27	2.62	0.690	0.022	3.24	0.33727
13.42	0.69	23.25	340.06	2.62	0.690	0.023	3.37	0.34006
13.43	0.7	23.28	345.47	2.62	0.700	0.023	3.33	0.34547
13.44	0.73	21.91	353.58	2.62	0.730	0.022	3.00	0.35358
13.45	0.74	21.43	361.24	2.62	0.740	0.021	2.90	0.36124
13.46	0.77	20.67	367.54	2.62	0.770	0.021	2.68	0.36754
13.47	0.8	20.06	372.5	2.57	0.800	0.020	2.51	0.3725
13.48	0.82	20.13	377.46	2.62	0.820	0.020	2.45	0.37746
13.49	0.85	20.64	381.69	2.57	0.850	0.021	2.43	0.38169
13.5	0.88	21.56	383.76	2.57	0.880	0.022	2.45	0.38376
13.51	0.9	22.74	385.11	2.57	0.900	0.023	2.53	0.38511
13.52	0.94	24.81	385.47	2.57	0.940	0.025	2.64	0.38547
13.53	0.94	26.72	384.3	2.57	0.940	0.027	2.84	0.3843
13.54	0.96	28.18	383.22	2.57	0.960	0.028	2.94	0.38322
13.55	0.98	29.39	383.67	2.57	0.980	0.029	3.00	0.38367
13.56	0.99	31.78	388.27	2.57	0.990	0.032	3.21	0.38827
13.57	0.99	34.58	392.41	2.57	0.990	0.035	3.49	0.39241
13.58	1	37.36	393.4	2.57	1.000	0.037	3.74	0.3934
13.59	1.01	39.58	392.95	2.57	1.010	0.040	3.92	0.39295
13.6	1.02	44.04	391.15	2.57	1.020	0.044	4.32	0.39115
13.61	1.02	46.18	389.35	2.57	1.020	0.046	4.53	0.38935
13.62	1.03	48.09	387.1	2.57	1.030	0.048	4.67	0.3871
13.63	1.03	48.09	387.1	2.57	1.030	0.048	4.67	0.3871
13.64	1.03	48.09	387.1	2.57	1.030	0.048	4.67	0.3871
13.65	1.02	58.02	378.99	2.57	1.020	0.058	5.69	0.37899
13.66	1.01	59.3	383.31	2.57	1.010	0.059	5.87	0.38331
13.67	1.01	59.74	389.98	2.57	1.010	0.060	5.91	0.38998
13.68	1.02	59.68	394.31	2.57	1.020	0.060	5.85	0.39431

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 04		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.69	1.01	60.28	394.85	2.57	1.010	0.060	5.97	0.39485
13.7	1.02	60.95	396.02	2.57	1.020	0.061	5.98	0.39602
13.71	1.02	61.08	393.76	2.51	1.020	0.061	5.99	0.39376
13.72	1.03	61.24	392.41	2.51	1.030	0.061	5.95	0.39241
13.73	1.04	62.55	389.26	2.51	1.040	0.063	6.01	0.38926
13.74	1.04	63.56	390.61	2.51	1.040	0.064	6.11	0.39061
13.75	1.03	64.55	391.42	2.51	1.030	0.065	6.27	0.39142
13.76	1.03	65.13	391.33	2.57	1.030	0.065	6.32	0.39133
13.77	1.03	65.19	395.3	2.51	1.030	0.065	6.33	0.3953
13.78	1.04	64.78	398.27	2.51	1.040	0.065	6.23	0.39827
13.79	1.03	65.03	398.9	2.51	1.030	0.065	6.31	0.3989
13.8	1.03	65.32	401.06	2.51	1.030	0.065	6.34	0.40106
13.81	1.03	65.35	400.7	2.51	1.030	0.065	6.34	0.4007
13.82	1.02	65.38	400.16	2.51	1.020	0.065	6.41	0.40016
13.83	1.02	65.7	399.8	2.51	1.020	0.066	6.44	0.3998
13.84	1.01	65.83	400.07	2.51	1.010	0.066	6.52	0.40007
13.85	1.02	65.67	399.62	2.51	1.020	0.066	6.44	0.39962
13.86	1.02	65.6	396.74	2.51	1.020	0.066	6.43	0.39674
13.87	1.02	65.51	395.84	2.51	1.020	0.066	6.42	0.39584
13.88	1.02	65	395.48	2.51	1.020	0.065	6.37	0.39548
13.89	1.03	64.2	395.39	2.51	1.030	0.064	6.23	0.39539
13.9	1.04	63.09	395.48	2.51	1.040	0.063	6.07	0.39548
13.91	1.04	62.71	394.85	2.51	1.040	0.063	6.03	0.39485
13.92	1.04	62.55	394.94	2.51	1.040	0.063	6.01	0.39494
13.93	1.04	62.61	394.94	2.51	1.040	0.063	6.02	0.39494
13.94	1.03	62.26	390.07	2.51	1.030	0.062	6.04	0.39007
13.95	1.02	62.55	390.79	2.51	1.020	0.063	6.13	0.39079
13.96	1.02	62.96	390.25	2.56	1.020	0.063	6.17	0.39025
13.97	1.01	63.41	389.8	2.51	1.010	0.063	6.28	0.3898
13.98	1	63.53	391.15	2.56	1.000	0.064	6.35	0.39115
13.99	1	63.47	392.32	2.51	1.000	0.063	6.35	0.39232
14	1	63.31	395.12	2.56	1.000	0.063	6.33	0.39512
14.01	1.01	63.31	396.74	2.51	1.010	0.063	6.27	0.39674
14.02	1.03	62.64	401.69	2.56	1.030	0.063	6.08	0.40169
14.03	1.04	62.39	404.22	2.51	1.040	0.062	6.00	0.40422
14.04	1.05	62.64	408	2.51	1.050	0.063	5.97	0.408
14.05	1.06	62.64	411.25	2.56	1.060	0.063	5.91	0.41125
14.06	1.08	62.35	412.96	2.56	1.080	0.062	5.77	0.41296
14.07	1.08	62.51	414.4	2.51	1.080	0.063	5.79	0.4144
14.08	1.09	62.8	417.91	2.51	1.090	0.063	5.76	0.41791
14.09	1.1	62.9	418.54	2.51	1.100	0.063	5.72	0.41854
14.1	1.12	62.32	419.44	2.51	1.120	0.062	5.56	0.41944
14.11	1.12	62.16	421.88	2.51	1.120	0.062	5.55	0.42188
14.12	1.12	62.35	422.33	2.51	1.120	0.062	5.57	0.42233
14.13	1.13	62.1	421.7	2.51	1.130	0.062	5.50	0.4217
14.14	1.16	61.62	421.52	2.51	1.160	0.062	5.31	0.42152
14.15	1.2	61.08	422.87	2.51	1.200	0.061	5.09	0.42287
14.16	1.23	61.02	424.04	2.51	1.230	0.061	4.96	0.42404
14.17	1.24	61.94	427.19	2.51	1.240	0.062	5.00	0.42719
14.18	1.28	64.52	436.75	2.51	1.280	0.065	5.04	0.43675
14.19	1.3	65.41	441.88	2.51	1.300	0.065	5.03	0.44188
14.2	1.32	66.4	449.45	2.51	1.320	0.066	5.03	0.44945
14.21	1.35	67.45	455.4	2.51	1.350	0.067	5.00	0.4554
14.22	1.38	68.31	460.62	2.51	1.380	0.068	4.95	0.46062
14.23	1.41	69.39	463.69	2.51	1.410	0.069	4.92	0.46369
14.24	1.44	70.16	464.95	2.51	1.440	0.070	4.87	0.46495
14.25	1.48	70.51	467.83	2.51	1.480	0.071	4.76	0.46783

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.26	1.53	70.57	468.28	2.51	1.530	0.071	4.61	0.46828
14.27	1.54	72.7	468.1	2.51	1.540	0.073	4.72	0.4681
14.28	1.54	74.55	471.35	2.51	1.540	0.075	4.84	0.47135
14.29	1.55	76.21	479.37	2.51	1.550	0.076	4.92	0.47937
14.3	1.57	77.32	478.19	2.51	1.570	0.077	4.92	0.47819
14.31	1.59	76.62	473.87	2.51	1.590	0.077	4.82	0.47387
14.32	1.57	77.51	479.64	2.51	1.570	0.078	4.94	0.47964
14.33	1.53	77.7	456.84	2.51	1.530	0.078	5.08	0.45684
14.34	1.52	76.08	454.5	2.46	1.520	0.076	5.01	0.4545
14.35	1.48	75.76	421.34	2.51	1.480	0.076	5.12	0.42134
14.36	1.45	73.6	416.2	2.56	1.450	0.074	5.08	0.4162
14.37	1.46	71.11	433.59	2.51	1.460	0.071	4.87	0.43359
14.38	1.43	69.39	419.9	2.51	1.430	0.069	4.85	0.4199
14.39	1.45	67.74	411.25	2.56	1.450	0.068	4.67	0.41125
14.4	1.42	66.27	392.68	2.56	1.420	0.066	4.67	0.39268
14.41	1.42	65.51	400.16	2.56	1.420	0.066	4.61	0.40016
14.42	1.42	63.76	404.85	2.56	1.420	0.064	4.49	0.40485
14.43	1.42	62.07	405.39	2.51	1.420	0.062	4.37	0.40539
14.44	1.41	60.28	407.73	2.51	1.410	0.060	4.28	0.40773
14.45	1.4	58.31	431.7	2.56	1.400	0.058	4.17	0.4317
14.46	1.38	56.65	466.84	2.56	1.380	0.057	4.11	0.46684
14.47	1.34	52.23	476.39	2.51	1.340	0.052	3.90	0.47639
14.48	1.33	50.03	478.37	2.51	1.330	0.050	3.76	0.47837
14.49	1.31	49.01	479.37	2.51	1.310	0.049	3.74	0.47937
14.5	1.29	47.42	480.36	2.51	1.290	0.047	3.68	0.48036
14.51	1.3	45.64	479.91	2.51	1.300	0.046	3.51	0.47991
14.52	1.3	43.88	465.76	2.51	1.300	0.044	3.38	0.46576
14.53	1.3	42.61	439.63	2.51	1.300	0.043	3.28	0.43963
14.54	1.28	42.01	456.39	2.51	1.280	0.042	3.28	0.45639
14.55	1.2	41.97	436.02	2.51	1.200	0.042	3.50	0.43602
14.56	1.18	41.59	421.88	2.51	1.180	0.042	3.52	0.42188
14.57	1.16	40.48	395.93	2.51	1.160	0.040	3.49	0.39593
14.58	1.13	39.36	390.43	2.51	1.130	0.039	3.48	0.39043
14.59	1.09	39.11	376.55	2.51	1.090	0.039	3.59	0.37655
14.6	1.03	38.63	371.6	2.51	1.030	0.039	3.75	0.3716
14.61	0.99	38.57	369.17	2.51	0.990	0.039	3.90	0.36917
14.62	0.99	38.57	369.17	2.51	0.990	0.039	3.90	0.36917
14.63	0.99	38.57	369.17	2.51	0.990	0.039	3.90	0.36917
14.64	0.92	34.74	381.42	2.51	0.920	0.035	3.78	0.38142
14.65	0.91	34.65	388.45	2.51	0.910	0.035	3.81	0.38845
14.66	0.9	34.65	390.43	2.51	0.900	0.035	3.85	0.39043
14.67	0.88	33.76	393.49	2.51	0.880	0.034	3.84	0.39349
14.68	0.87	31.69	395.57	2.51	0.870	0.032	3.64	0.39557
14.69	0.87	30.92	395.93	2.51	0.870	0.031	3.55	0.39593
14.7	0.84	30.51	386.02	2.51	0.840	0.031	3.63	0.38602
14.71	0.82	29.84	387.46	2.51	0.820	0.030	3.64	0.38746
14.72	0.81	28.92	389.53	2.51	0.810	0.029	3.57	0.38953
14.73	0.8	27.83	392.86	2.51	0.800	0.028	3.48	0.39286
14.74	0.79	26.24	397.1	2.51	0.790	0.026	3.32	0.3971
14.75	0.79	23.44	410.97	2.51	0.790	0.023	2.97	0.41097
14.76	0.82	21.85	434.58	2.51	0.820	0.022	2.66	0.43458
14.77	0.92	19.68	479.91	2.47	0.920	0.020	2.14	0.47991
14.78	1.13	17.67	534.06	2.51	1.130	0.018	1.56	0.53406
14.79	1.47	15.83	600.47	2.51	1.470	0.016	1.08	0.60047
14.8	1.97	14.14	650.12	2.47	1.970	0.014	0.72	0.65012
14.81	2.42	13.38	552.53	2.47	2.420	0.013	0.55	0.55253
14.82	2.7	14.33	392.14	2.47	2.700	0.014	0.53	0.39214

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 04		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
14.83	2.68	16.34	262.21	2.51	2.680	0.016	0.61	0.26221
14.84	2.43	16.94	176.7	2.51	2.430	0.017	0.70	0.1767
14.85	2.28	17.9	152.01	2.51	2.280	0.018	0.79	0.15201
14.86	2.2	22.23	164.26	2.51	2.200	0.022	1.01	0.16426
14.87	2.2	25.22	195.71	2.57	2.200	0.025	1.15	0.19571
14.88	2.26	27.42	233.65	2.52	2.260	0.027	1.21	0.23365
14.89	2.36	28.88	275	2.57	2.360	0.029	1.22	0.275
14.9	3.03	27.26	330.15	2.47	3.030	0.027	0.90	0.33015
14.91	3.56	26.78	339.07	2.51	3.560	0.027	0.75	0.33907
14.92	4.12	29.33	266.17	2.47	4.120	0.029	0.71	0.26617
14.93	4.6	30.44	192.83	2.47	4.600	0.030	0.66	0.19283
14.94	4.97	31.66	143.63	2.47	4.970	0.032	0.64	0.14363
14.95	5.3	32.1	95.33	2.47	5.300	0.032	0.61	0.09533
14.96	5.81	34.04	67.94	2.47	5.810	0.034	0.59	0.06794
14.97	6.02	31.81	68.12	2.47	6.020	0.032	0.53	0.06812
14.98	6.29	28.44	68.12	2.47	6.290	0.028	0.45	0.06812
14.99	6.58	24.65	72.27	2.47	6.580	0.025	0.37	0.07227
15	6.89	21.24	77.85	2.47	6.890	0.021	0.31	0.07785
15.01	7.26	17.77	82	2.47	7.260	0.018	0.24	0.082
15.02	7.62	15.45	85.87	2.47	7.620	0.015	0.20	0.08587
15.03	8.41	12.99	92.9	2.47	8.410	0.013	0.15	0.0929
15.04	8.77	13.38	97.13	2.47	8.770	0.013	0.15	0.09713
15.05	9.14	13.53	100.92	2.47	9.140	0.014	0.15	0.10092
15.06	9.5	14.33	104.25	2.47	9.500	0.014	0.15	0.10425
15.07	9.86	15.06	108.13	2.47	9.860	0.015	0.15	0.10813
15.08	10.27	15.51	112.18	2.47	10.270	0.016	0.15	0.11218
15.09	11.25	18.09	121.37	2.47	11.250	0.018	0.16	0.12137
15.1	11.77	19.52	125.88	2.47	11.770	0.020	0.17	0.12588
15.11	12.23	20.83	130.29	2.47	12.230	0.021	0.17	0.13029
15.12	12.66	22.39	134.08	2.47	12.660	0.022	0.18	0.13408
15.13	12.93	24.68	137.68	2.47	12.930	0.025	0.19	0.13768
15.14	13.5	29.3	144.17	2.47	13.500	0.029	0.22	0.14417
15.15	13.64	31.56	142.73	2.47	13.640	0.032	0.23	0.14273
15.16	13.71	33.88	139.12	2.47	13.710	0.034	0.25	0.13912
15.17	13.7	36.27	138.22	2.47	13.700	0.036	0.26	0.13822
15.18	13.6	38.92	138.76	2.47	13.600	0.039	0.29	0.13876
15.19	13.53	41.56	141.02	2.47	13.530	0.042	0.31	0.14102
15.2	13.29	46.18	144.17	2.47	13.290	0.046	0.35	0.14417
15.21	13.12	48.92	146.24	2.47	13.120	0.049	0.37	0.14624
15.22	12.97	51.02	147.68	2.47	12.970	0.051	0.39	0.14768
15.23	12.76	52.32	149.22	2.47	12.760	0.052	0.41	0.14922
15.24	12.54	54.55	150.66	2.47	12.540	0.055	0.44	0.15066
15.25	12.34	55.54	152.1	2.47	12.340	0.056	0.45	0.1521
15.26	12.04	57	153	2.47	12.040	0.057	0.47	0.153
15.27	11.37	57.13	154.17	2.47	11.370	0.057	0.50	0.15417
15.28	10.99	56.56	154.71	2.47	10.990	0.057	0.51	0.15471
15.29	10.59	55.73	154.35	2.47	10.590	0.056	0.53	0.15435
15.3	10.14	54.93	154.71	2.47	10.140	0.055	0.54	0.15471
15.31	9.76	53.66	154.8	2.47	9.760	0.054	0.55	0.1548
15.32	9.43	51.81	155.34	2.47	9.430	0.052	0.55	0.15534
15.33	9.13	50.67	156.15	2.47	9.130	0.051	0.55	0.15615
15.34	8.9	49.52	157.51	2.47	8.900	0.050	0.56	0.15751
15.35	8.55	46.75	161.38	2.47	8.550	0.047	0.55	0.16138
15.36	8.48	45.95	163.99	2.47	8.480	0.046	0.54	0.16399
15.37	8.48	46.15	166.61	2.47	8.480	0.046	0.54	0.16661
15.38	8.44	47.13	166.16	2.47	8.440	0.047	0.56	0.16616
15.39	8.39	48.63	145.7	2.47	8.390	0.049	0.58	0.1457

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.4	8.38	49.46	116.33	2.42	8.380	0.049	0.59	0.11633
15.41	8.38	50.67	90.56	2.47	8.380	0.051	0.60	0.09056
15.42	8.38	49.43	78.21	2.47	8.380	0.049	0.59	0.07821
15.43	8.43	45.25	66.5	2.47	8.430	0.045	0.54	0.0665
15.44	8.49	40.7	65.6	2.42	8.490	0.041	0.48	0.0656
15.45	8.54	36.78	62.89	2.47	8.540	0.037	0.43	0.06289
15.46	8.54	34.14	60.01	2.47	8.540	0.034	0.40	0.06001
15.47	8.5	32.45	57.04	2.47	8.500	0.032	0.38	0.05704
15.48	8.42	31.02	53.16	2.52	8.420	0.031	0.37	0.05316
15.49	8.45	31.66	46.13	2.47	8.450	0.032	0.37	0.04613
15.5	8.49	32.8	32.35	2.42	8.490	0.033	0.39	0.03235
15.51	8.51	32.42	29.28	2.42	8.510	0.032	0.38	0.02928
15.52	8.55	31.81	26.22	2.42	8.550	0.032	0.37	0.02622
15.53	8.62	29.87	24.51	2.48	8.620	0.030	0.35	0.02451
15.54	8.63	26.34	21.45	2.48	8.630	0.026	0.31	0.02145
15.55	8.57	27.48	62.17	2.42	8.570	0.027	0.32	0.06217
15.56	8.51	23.63	42.8	2.48	8.510	0.024	0.28	0.0428
15.57	8.52	22.67	43.79	2.43	8.520	0.023	0.27	0.04379
15.58	8.49	21.15	44.96	2.48	8.490	0.021	0.25	0.04496
15.59	8.49	20	46.04	2.48	8.490	0.020	0.24	0.04604
15.6	8.49	19.27	47.04	2.48	8.490	0.019	0.23	0.04704
15.61	8.48	18.76	48.12	2.48	8.480	0.019	0.22	0.04812
15.62	8.48	18.76	48.12	2.48	8.480	0.019	0.22	0.04812
15.63	8.48	18.76	48.12	2.48	8.480	0.019	0.22	0.04812
15.64	8.5	21.46	84.07	2.43	8.500	0.021	0.25	0.08407
15.65	8.55	22.64	84.16	2.43	8.550	0.023	0.26	0.08416
15.66	8.55	22.64	84.16	2.43	8.550	0.023	0.26	0.08416
15.67	8.63	25.41	84.7	2.48	8.630	0.025	0.29	0.0847
15.68	8.72	26.94	85.15	2.43	8.720	0.027	0.31	0.08515
15.69	8.81	27.48	85.69	2.43	8.810	0.027	0.31	0.08569
15.7	8.92	28.44	86.41	2.43	8.920	0.028	0.32	0.08641
15.71	9.05	29.3	87.13	2.43	9.050	0.029	0.32	0.08713
15.72	9.17	30.6	88.03	2.43	9.170	0.031	0.33	0.08803
15.73	9.45	32.04	89.3	2.43	9.450	0.032	0.34	0.0893
15.74	9.41	32.48	89.3	2.43	9.410	0.032	0.35	0.0893
15.75	9.1	33.06	87.94	2.43	9.100	0.033	0.36	0.08794
15.76	8.33	34.65	85.24	2.43	8.330	0.035	0.42	0.08524
15.77	7.29	37.61	81.37	2.43	7.290	0.038	0.52	0.08137
15.78	6.15	42.64	77.13	2.43	6.150	0.043	0.69	0.07713
15.79	5.14	48.69	73.98	2.43	5.140	0.049	0.95	0.07398
15.8	4.48	54.81	71.9	2.43	4.480	0.055	1.22	0.0719
15.81	3.53	69.81	69.92	2.43	3.530	0.070	1.98	0.06992
15.82	3.33	72.96	70.55	2.43	3.330	0.073	2.19	0.07055
15.83	3.14	81.62	70.64	2.43	3.140	0.082	2.60	0.07064
15.84	2.8	92.04	73.8	2.43	2.800	0.092	3.29	0.0738
15.85	2.52	104.71	75.96	2.43	2.520	0.105	4.16	0.07596
15.86	2.22	109.77	81.64	2.43	2.220	0.110	4.94	0.08164
15.87	2.17	112.96	86.68	2.43	2.170	0.113	5.21	0.08668
15.88	2	110.95	91.28	2.43	2.000	0.111	5.55	0.09128
15.89	1.89	112.23	96.05	2.43	1.890	0.112	5.94	0.09605
15.9	1.78	110.35	105.51	2.43	1.780	0.110	6.20	0.10551
15.91	1.66	104.71	362.05	2.43	1.660	0.105	6.31	0.36205
15.92	1.64	99.65	400.34	2.43	1.640	0.100	6.08	0.40034
15.93	1.64	94.61	402.41	2.43	1.640	0.095	5.77	0.40241
15.94	1.64	90.35	403.59	2.43	1.640	0.090	5.51	0.40359
15.95	1.63	86.72	412.6	2.43	1.630	0.087	5.32	0.4126
15.96	1.61	83.31	508.83	2.43	1.610	0.083	5.17	0.50883

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
15.97	1.6	78.91	473.96	2.43	1.600	0.079	4.93	0.47396
15.98	1.6	72.9	468.82	2.43	1.600	0.073	4.56	0.46882
15.99	1.61	55.95	449.81	2.43	1.610	0.056	3.48	0.44981
16	1.64	47	421.88	2.43	1.640	0.047	2.87	0.42188
16.01	1.66	41.75	629.75	2.43	1.660	0.042	2.52	0.62975
16.02	1.63	39.39	625.88	2.43	1.630	0.039	2.42	0.62588
16.03	1.57	38.18	634.98	2.43	1.570	0.038	2.43	0.63498
16.04	1.47	36.81	593.62	2.43	1.470	0.037	2.50	0.59362
16.05	1.39	37.51	556.86	2.43	1.390	0.038	2.70	0.55686
16.06	1.3	37.93	541.72	2.43	1.300	0.038	2.92	0.54172
16.07	1.24	37.9	580.83	2.43	1.240	0.038	3.06	0.58083
16.08	1.15	36.88	530.64	2.43	1.150	0.037	3.21	0.53064
16.09	1.12	35.38	504.23	2.43	1.120	0.035	3.16	0.50423
16.1	1.09	34.01	493.24	2.43	1.090	0.034	3.12	0.49324
16.11	1.06	34.43	497.21	2.43	1.060	0.034	3.25	0.49721
16.12	1.03	35	505.05	2.43	1.030	0.035	3.40	0.50505
16.13	1.01	34.3	502.07	2.43	1.010	0.034	3.40	0.50207
16.14	0.99	33.66	510.36	2.43	0.990	0.034	3.40	0.51036
16.15	0.97	32.42	513.88	2.43	0.970	0.032	3.34	0.51388
16.16	0.96	31.15	505.59	2.43	0.960	0.031	3.24	0.50559
16.17	0.92	27.8	497.57	2.43	0.920	0.028	3.02	0.49757
16.18	0.91	25.95	491.98	2.43	0.910	0.026	2.85	0.49198
16.19	0.9	24.55	485.22	2.43	0.900	0.025	2.73	0.48522
16.2	0.89	22.61	481.08	2.43	0.890	0.023	2.54	0.48108
16.21	0.88	20.54	475.4	2.43	0.880	0.021	2.33	0.4754
16.22	0.87	18.66	471.98	2.43	0.870	0.019	2.14	0.47198
16.23	0.86	17.48	468.01	2.43	0.860	0.017	2.03	0.46801
16.24	0.82	16.43	458.82	2.43	0.820	0.016	2.00	0.45882
16.25	0.81	15.83	453.78	2.43	0.810	0.016	1.95	0.45378
16.26	0.8	15.22	446.03	2.43	0.800	0.015	1.90	0.44603
16.27	0.78	14.68	438.1	2.43	0.780	0.015	1.88	0.4381
16.28	0.77	14.46	433.95	2.43	0.770	0.014	1.88	0.43395
16.29	0.76	14.3	433.5	2.43	0.760	0.014	1.88	0.4335
16.3	0.75	14.01	432.42	2.43	0.750	0.014	1.87	0.43242
16.31	0.75	13.5	430.71	2.43	0.750	0.014	1.80	0.43071
16.32	0.74	12.9	429.54	2.43	0.740	0.013	1.74	0.42954
16.33	0.74	12.42	431.7	2.43	0.740	0.012	1.68	0.4317
16.34	0.74	11.81	433.05	2.43	0.740	0.012	1.60	0.43305
16.35	0.74	11.37	437.74	2.43	0.740	0.011	1.54	0.43774
16.36	0.75	10.8	442.42	2.43	0.750	0.011	1.44	0.44242
16.37	0.75	10.32	447.47	2.43	0.750	0.010	1.38	0.44747
16.38	0.76	9.68	454.14	2.43	0.760	0.010	1.27	0.45414
16.39	0.77	9.17	458.64	2.43	0.770	0.009	1.19	0.45864
16.4	0.79	8.76	461.79	2.43	0.790	0.009	1.11	0.46179
16.41	0.8	8.09	464.23	2.43	0.800	0.008	1.01	0.46423
16.42	0.81	7.87	464.32	2.43	0.810	0.008	0.97	0.46432
16.43	0.82	7.77	466.84	2.43	0.820	0.008	0.95	0.46684
16.44	0.82	7.9	469.54	2.43	0.820	0.008	0.96	0.46954
16.45	0.83	7.99	471.89	2.43	0.830	0.008	0.96	0.47189
16.46	0.83	8.03	474.41	2.43	0.830	0.008	0.97	0.47441
16.47	0.83	8.06	475.67	2.43	0.830	0.008	0.97	0.47567
16.48	0.84	8.15	477.2	2.43	0.840	0.008	0.97	0.4772
16.49	0.85	8.34	476.48	2.43	0.850	0.008	0.98	0.47648
16.5	0.85	8.47	475.76	2.43	0.850	0.008	1.00	0.47576
16.51	0.84	8.47	474.5	2.43	0.840	0.008	1.01	0.4745
16.52	0.84	8.41	475.58	2.43	0.840	0.008	1.00	0.47558
16.53	0.84	8.15	477.83	2.43	0.840	0.008	0.97	0.47783

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
16.54	0.85	8.03	477.74	2.43	0.850	0.008	0.94	0.47774
16.55	0.85	7.87	475.31	2.43	0.850	0.008	0.93	0.47531
16.56	0.86	7.87	486.93	2.49	0.860	0.008	0.92	0.48693
16.57	0.86	7.93	488.2	2.49	0.860	0.008	0.92	0.4882
16.58	0.86	8.06	492.16	2.45	0.860	0.008	0.94	0.49216
16.59	0.87	8.09	498.38	2.45	0.870	0.008	0.93	0.49838
16.6	0.87	8.09	500	2.49	0.870	0.008	0.93	0.5
16.61	0.88	8.28	503.78	2.49	0.880	0.008	0.94	0.50378
16.62	0.88	8.28	503.78	2.49	0.880	0.008	0.94	0.50378
16.63	0.88	8.28	503.78	2.49	0.880	0.008	0.94	0.50378
16.64	1.02	7.1	452.87	2.49	1.020	0.007	0.70	0.45287
16.65	0.97	8.5	460.44	2.49	0.970	0.009	0.88	0.46044
16.66	0.95	8.79	459.09	2.45	0.950	0.009	0.93	0.45909
16.67	0.93	8.76	459.36	2.49	0.930	0.009	0.94	0.45936
16.68	0.92	8.92	456.3	2.45	0.920	0.009	0.97	0.4563
16.69	0.91	9.08	452.69	2.45	0.910	0.009	1.00	0.45269
16.7	0.89	9.39	446.75	2.49	0.890	0.009	1.06	0.44675
16.71	0.88	9.74	442.42	2.45	0.880	0.010	1.11	0.44242
16.72	0.87	9.97	439.99	2.45	0.870	0.010	1.15	0.43999
16.73	0.85	10.22	433.32	2.45	0.850	0.010	1.20	0.43332
16.74	0.83	10.54	433.59	2.45	0.830	0.011	1.27	0.43359
16.75	0.81	10.92	433.77	2.45	0.810	0.011	1.35	0.43377
16.76	0.81	10.83	433.32	2.45	0.810	0.011	1.34	0.43332
16.77	0.8	10.57	433.86	2.45	0.800	0.011	1.32	0.43386
16.78	0.79	10.06	435.21	2.45	0.790	0.010	1.27	0.43521
16.79	0.79	9.46	438.01	2.45	0.790	0.009	1.20	0.43801
16.8	0.79	8.73	442.33	2.51	0.790	0.009	1.11	0.44233
16.81	0.8	8.18	450.53	2.51	0.800	0.008	1.02	0.45053
16.82	0.81	8.03	454.14	2.51	0.810	0.008	0.99	0.45414
16.83	0.81	7.71	459.45	2.51	0.810	0.008	0.95	0.45945
16.84	0.82	7.42	465.4	2.51	0.820	0.007	0.90	0.4654
16.85	0.83	7.04	471.62	2.51	0.830	0.007	0.85	0.47162
16.86	0.85	6.82	478.92	2.51	0.850	0.007	0.80	0.47892
16.87	0.86	6.62	487.3	2.51	0.860	0.007	0.77	0.4873
16.88	0.86	6.5	493.33	2.51	0.860	0.007	0.76	0.49333
16.89	0.87	6.37	502.79	2.51	0.870	0.006	0.73	0.50279
16.9	0.89	6.18	513.7	2.51	0.890	0.006	0.69	0.5137
16.91	0.9	6.18	517.75	2.51	0.900	0.006	0.69	0.51775
16.92	0.91	6.11	520.18	2.51	0.910	0.006	0.67	0.52018
16.93	0.92	6.15	520.63	2.51	0.920	0.006	0.67	0.52063
16.94	0.92	6.21	520.54	2.47	0.920	0.006	0.68	0.52054
16.95	0.92	6.24	520.63	2.47	0.920	0.006	0.68	0.52063
16.96	0.92	6.31	521.08	2.47	0.920	0.006	0.69	0.52108
16.97	0.92	6.43	523.79	2.47	0.920	0.006	0.70	0.52379
16.98	0.93	6.56	526.58	2.47	0.930	0.007	0.71	0.52658
16.99	0.93	7.13	526.22	2.47	0.930	0.007	0.77	0.52622
17	0.93	7.45	525.32	2.47	0.930	0.007	0.80	0.52532
17.01	0.93	7.71	525.23	2.47	0.930	0.008	0.83	0.52523
17.02	0.94	7.87	523.79	2.47	0.940	0.008	0.84	0.52379
17.03	0.94	7.96	522.71	2.47	0.940	0.008	0.85	0.52271
17.04	0.96	8.12	520.27	2.47	0.960	0.008	0.85	0.52027
17.05	0.96	8.41	515.68	2.47	0.960	0.008	0.88	0.51568
17.06	0.96	8.76	509.19	2.47	0.960	0.009	0.91	0.50919
17.07	0.96	9.84	497.39	2.43	0.960	0.010	1.03	0.49739
17.08	0.96	10.38	494.95	2.47	0.960	0.010	1.08	0.49495
17.09	0.97	10.89	493.06	2.47	0.970	0.011	1.12	0.49306
17.1	0.97	11.37	491.89	2.47	0.970	0.011	1.17	0.49189

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.11	0.98	11.88	491.44	2.47	0.980	0.012	1.21	0.49144
17.12	0.99	12.29	492.52	2.47	0.990	0.012	1.24	0.49252
17.13	1	12.58	492.88	2.47	1.000	0.013	1.26	0.49288
17.14	1	12.77	492.88	2.43	1.000	0.013	1.28	0.49288
17.15	1	12.8	489.37	2.43	1.000	0.013	1.28	0.48937
17.16	1.01	13.12	487.66	2.43	1.010	0.013	1.30	0.48766
17.17	1.01	13.22	488.92	2.43	1.010	0.013	1.31	0.48892
17.18	1.03	13.6	493.15	2.43	1.030	0.014	1.32	0.49315
17.19	1.05	13.76	501.26	2.43	1.050	0.014	1.31	0.50126
17.2	1.1	13.76	512.07	2.43	1.100	0.014	1.25	0.51207
17.21	1.14	13.82	524.78	2.43	1.140	0.014	1.21	0.52478
17.22	1.18	13.53	533.52	2.43	1.180	0.014	1.15	0.53352
17.23	1.25	12.9	549.47	2.43	1.250	0.013	1.03	0.54947
17.24	1.28	12.58	556.41	2.43	1.280	0.013	0.98	0.55641
17.25	1.31	12.58	554.6	2.43	1.310	0.013	0.96	0.5546
17.26	1.34	13.15	528.65	2.43	1.340	0.013	0.98	0.52865
17.27	1.36	13.38	559.02	2.43	1.360	0.013	0.98	0.55902
17.28	1.39	13.73	537.66	2.43	1.390	0.014	0.99	0.53766
17.29	1.4	13.6	506.04	2.43	1.400	0.014	0.97	0.50604
17.3	1.42	13.92	503.69	2.43	1.420	0.014	0.98	0.50369
17.31	1.47	13.47	508.65	2.43	1.470	0.013	0.92	0.50865
17.32	1.48	13.57	525.86	2.43	1.480	0.014	0.92	0.52586
17.33	1.5	14.11	513.25	2.43	1.500	0.014	0.94	0.51325
17.34	1.53	14.59	535.14	2.43	1.530	0.015	0.95	0.53514
17.35	1.59	15.38	594.7	2.43	1.590	0.015	0.97	0.5947
17.36	1.66	15.86	684.27	2.43	1.660	0.016	0.96	0.68427
17.37	1.77	16.88	717.88	2.43	1.770	0.017	0.95	0.71788
17.38	1.89	17.52	741.76	2.43	1.890	0.018	0.93	0.74176
17.39	2	18.34	700.94	2.43	2.000	0.018	0.92	0.70094
17.4	2.09	19.49	674	2.43	2.090	0.019	0.93	0.674
17.41	2.26	22.64	693.46	2.43	2.260	0.023	1.00	0.69346
17.42	2.24	23.31	565.96	2.43	2.240	0.023	1.04	0.56596
17.43	2.3	26.59	567.76	2.43	2.300	0.027	1.16	0.56776
17.44	2.32	30.29	543.97	2.43	2.320	0.030	1.31	0.54397
17.45	2.33	32.71	542.62	2.43	2.330	0.033	1.40	0.54262
17.46	2.33	34.46	507.3	2.43	2.330	0.034	1.48	0.5073
17.47	2.3	37.71	566.05	2.43	2.300	0.038	1.64	0.56605
17.48	2.26	40.83	556.14	2.43	2.260	0.041	1.81	0.55614
17.49	2.21	43.92	517.12	2.43	2.210	0.044	1.99	0.51712
17.5	2.2	46.37	490.36	2.43	2.200	0.046	2.11	0.49036
17.51	2.15	49.04	458.28	2.43	2.150	0.049	2.28	0.45828
17.52	2.02	56.05	408.81	2.43	2.020	0.056	2.77	0.40881
17.53	1.98	59.68	421.61	2.43	1.980	0.060	3.01	0.42161
17.54	1.98	62.71	465.49	2.43	1.980	0.063	3.17	0.46549
17.55	1.97	66.49	561.18	2.43	1.970	0.066	3.38	0.56118
17.56	1.98	70.28	638.13	2.43	1.980	0.070	3.55	0.63813
17.57	1.96	72.7	664.53	2.43	1.960	0.073	3.71	0.66453
17.58	1.85	74.3	639.48	2.43	1.850	0.074	4.02	0.63948
17.59	1.79	72.48	604.7	2.43	1.790	0.072	4.05	0.6047
17.6	1.75	70.57	568.48	2.43	1.750	0.071	4.03	0.56848
17.61	1.75	68.66	574.43	2.43	1.750	0.069	3.92	0.57443
17.62	1.75	68.66	574.43	2.43	1.750	0.069	3.92	0.57443
17.63	1.75	68.66	574.43	2.43	1.750	0.069	3.92	0.57443
17.64	2.05	76.88	382.41	2.46	2.050	0.077	3.75	0.38241
17.65	1.99	76.11	413.86	2.46	1.990	0.076	3.82	0.41386
17.66	1.99	74.87	436.75	2.46	1.990	0.075	3.76	0.43675
17.67	2.04	74.04	488.29	2.46	2.040	0.074	3.63	0.48829

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 04		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
17.68	2.12	72.42	500.99	2.46	2.120	0.072	3.42	0.50099
17.69	2.34	70.7	527.57	2.46	2.340	0.071	3.02	0.52757
17.7	2.48	67.55	481.71	2.46	2.480	0.068	2.72	0.48171
17.71	2.59	64.11	386.56	2.46	2.590	0.064	2.48	0.38656
17.72	2.63	62.58	338.35	2.46	2.630	0.063	2.38	0.33835
17.73	2.56	62.35	285.19	2.46	2.560	0.062	2.44	0.28519
17.74	2.49	62	242.84	2.46	2.490	0.062	2.49	0.24284
17.75	2.45	59.74	255.63	2.46	2.450	0.060	2.44	0.25563
17.76	2.41	56.4	338.62	2.46	2.410	0.056	2.34	0.33862
17.77	2.37	58.25	411.61	2.46	2.370	0.058	2.46	0.41161
17.78	2.45	57.61	428.01	2.46	2.450	0.058	2.35	0.42801
17.79	2.44	58.69	422.42	2.46	2.440	0.059	2.41	0.42242
17.8	2.38	57.26	391.87	2.46	2.380	0.057	2.41	0.39187
17.81	2.33	58.69	378.36	2.46	2.330	0.059	2.52	0.37836
17.82	2.24	60.92	381.15	2.46	2.240	0.061	2.72	0.38115
17.83	2.14	61.53	395.75	2.46	2.140	0.062	2.88	0.39575
17.84	2.13	65.57	419.17	2.46	2.130	0.066	3.08	0.41917
17.85	2.13	64.23	468.73	2.46	2.130	0.064	3.02	0.46873
17.86	2.16	61.94	474.5	2.46	2.160	0.062	2.87	0.4745
17.87	2.09	59.39	466.12	2.46	2.090	0.059	2.84	0.46612
17.88	2.04	57.1	454.68	2.46	2.040	0.057	2.80	0.45468
17.89	2.06	56.53	444.4	2.46	2.060	0.057	2.74	0.4444
17.9	1.96	58.44	438.82	2.46	1.960	0.058	2.98	0.43882
17.91	1.86	58.82	442.87	2.46	1.860	0.059	3.16	0.44287
17.92	1.72	59.17	454.41	2.46	1.720	0.059	3.44	0.45441
17.93	1.82	53.82	515.41	2.46	1.820	0.054	2.96	0.51541
17.94	1.93	52.1	547.76	2.46	1.930	0.052	2.70	0.54776
17.95	2	49.43	579.02	2.46	2.000	0.049	2.47	0.57902
17.96	2.12	47.58	591.55	2.46	2.120	0.048	2.24	0.59155
17.97	2.2	47.07	593.35	2.46	2.200	0.047	2.14	0.59335
17.98	2.31	45.51	586.95	2.46	2.310	0.046	1.97	0.58695
17.99	2.45	46.34	588.21	2.46	2.450	0.046	1.89	0.58821
18	2.39	49.97	597.68	2.5	2.390	0.050	2.09	0.59768
18.01	2.35	52.74	254.23	2.46	2.350	0.053	2.24	0.25423
18.02	2.32	50.67	247.56	2.46	2.320	0.051	2.18	0.24756
18.03	2.36	49.36	241.85	2.46	2.360	0.049	2.09	0.24185
18.04	2.25	49.78	204.9	2.46	2.250	0.050	2.21	0.2049
18.05	2.1	53.63	428.73	2.46	2.100	0.054	2.55	0.42873
18.06	2.08	53.02	447.65	2.53	2.080	0.053	2.55	0.44765
18.07	1.97	52.83	476.03	2.46	1.970	0.053	2.68	0.47603
18.08	1.9	53.15	562.17	2.53	1.900	0.053	2.80	0.56217
18.09	2.28	62.99	574.43	2.53	2.280	0.063	2.76	0.57443
18.1	2.12	57.93	602	2.53	2.120	0.058	2.73	0.602
18.11	1.93	57.48	668.59	2.53	1.930	0.057	2.98	0.66859
18.12	2.04	62.26	717.16	2.53	2.040	0.062	3.05	0.71716
18.13	2.15	59.84	736.62	2.53	2.150	0.060	2.78	0.73662
18.14	2.04	61.18	699.68	2.53	2.040	0.061	3.00	0.69968
18.15	2.01	63.98	502.25	2.53	2.010	0.064	3.18	0.50225
18.16	2.08	62.67	622.91	2.53	2.080	0.063	3.01	0.62291
18.17	2.12	64.87	489.28	2.53	2.120	0.065	3.06	0.48928
18.18	2.12	63.56	580.92	2.53	2.120	0.064	3.00	0.58092
18.19	2.13	58.69	599.12	2.53	2.130	0.059	2.76	0.59912
18.2	2.17	60.64	605.51	2.53	2.170	0.061	2.79	0.60551
18.21	2.21	59.36	605.6	2.53	2.210	0.059	2.69	0.6056
18.22	2.24	60.64	603.98	2.53	2.240	0.061	2.71	0.60398
18.23	2.25	62.32	601.73	2.53	2.250	0.062	2.77	0.60173
18.24	2.25	65.99	594.88	2.53	2.250	0.066	2.93	0.59488

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.25	2.26	70.63	585.87	2.53	2.260	0.071	3.13	0.58587
18.26	2.27	71.46	580.37	2.53	2.270	0.071	3.15	0.58037
18.27	2.26	78.98	566.41	2.53	2.260	0.079	3.49	0.56641
18.28	2.24	83.5	561.72	2.53	2.240	0.084	3.73	0.56172
18.29	2.24	83.82	552.71	2.53	2.240	0.084	3.74	0.55271
18.3	2.24	85.98	546.31	2.53	2.240	0.086	3.84	0.54631
18.31	2.22	88.44	543.34	2.53	2.220	0.088	3.98	0.54334
18.32	2.2	90.95	542.08	2.53	2.200	0.091	4.13	0.54208
18.33	2.2	92.77	541.9	2.53	2.200	0.093	4.22	0.5419
18.34	2.23	94.33	539.2	2.53	2.230	0.094	4.23	0.5392
18.35	2.2	98.5	499.37	2.53	2.200	0.099	4.48	0.49937
18.36	2.17	99.42	493.51	2.53	2.170	0.099	4.58	0.49351
18.37	2.16	97.67	486.21	2.46	2.160	0.098	4.52	0.48621
18.38	2.16	96.94	476.84	2.53	2.160	0.097	4.49	0.47684
18.39	2.16	99.42	470.08	2.53	2.160	0.099	4.60	0.47008
18.4	2.05	101.81	403.95	2.46	2.050	0.102	4.97	0.40395
18.41	1.96	103.05	440.26	2.46	1.960	0.103	5.26	0.44026
18.42	1.96	101.46	438.91	2.46	1.960	0.101	5.18	0.43891
18.43	1.97	101.3	437.65	2.46	1.970	0.101	5.14	0.43765
18.44	1.97	100.95	439	2.46	1.970	0.101	5.12	0.439
18.45	1.94	101.75	440.71	2.46	1.940	0.102	5.24	0.44071
18.46	1.94	101.94	443.5	2.46	1.940	0.102	5.25	0.4435
18.47	1.94	101.75	444.95	2.46	1.940	0.102	5.24	0.44495
18.48	1.97	101.37	447.65	2.46	1.970	0.101	5.15	0.44765
18.49	1.98	101.49	451.16	2.46	1.980	0.101	5.13	0.45116
18.5	2	100.82	451.7	2.46	2.000	0.101	5.04	0.4517
18.51	2.05	99.55	450.08	2.46	2.050	0.100	4.86	0.45008
18.52	2.07	98.37	450.17	2.46	2.070	0.098	4.75	0.45017
18.53	2.07	97.83	450.08	2.46	2.070	0.098	4.73	0.45008
18.54	2.11	93.95	455.49	2.46	2.110	0.094	4.45	0.45549
18.55	2.17	93.72	451.34	2.46	2.170	0.094	4.32	0.45134
18.56	2.18	95	447.02	2.46	2.180	0.095	4.36	0.44702
18.57	2.19	95.22	443.59	2.46	2.190	0.095	4.35	0.44359
18.58	2.19	93.63	436.57	2.46	2.190	0.094	4.28	0.43657
18.59	2.16	92.26	434.04	2.46	2.160	0.092	4.27	0.43404
18.6	2.08	88.21	428.28	2.46	2.080	0.088	4.24	0.42828
18.61	1.63	87.52	465.31	2.46	1.630	0.088	5.37	0.46531
18.62	1.54	85.36	465.31	2.46	1.540	0.085	5.54	0.46531
18.63	1.84	83.14	515.86	2.46	1.840	0.083	4.52	0.51586
18.64	2.1	84.52	611.1	2.46	2.100	0.085	4.02	0.6111
18.65	2.16	84.17	579.38	2.46	2.160	0.084	3.90	0.57938
18.66	2.08	85.54	550.55	2.46	2.080	0.086	4.11	0.55055
18.67	1.94	87.64	525.59	2.46	1.940	0.088	4.52	0.52559
18.68	1.81	87.8	506.49	2.46	1.810	0.088	4.85	0.50649
18.69	1.7	85.67	492.97	2.46	1.700	0.086	5.04	0.49297
18.7	1.62	82.1	484.23	2.46	1.620	0.082	5.07	0.48423
18.71	1.54	78.37	477.02	2.46	1.540	0.078	5.09	0.47702
18.72	1.47	71.02	481.17	2.46	1.470	0.071	4.83	0.48117
18.73	1.42	61.18	487.3	2.46	1.420	0.061	4.31	0.4873
18.74	1.41	47.04	497.3	2.46	1.410	0.047	3.34	0.4973
18.75	1.4	42.74	502.43	2.46	1.400	0.043	3.05	0.50243
18.76	1.39	39.2	506.22	2.46	1.390	0.039	2.82	0.50622
18.77	1.39	36.69	506.94	2.46	1.390	0.037	2.64	0.50694
18.78	1.38	33.98	508.02	2.43	1.380	0.034	2.46	0.50802
18.79	1.38	30.95	509.91	2.46	1.380	0.031	2.24	0.50991
18.8	1.38	28.95	511.8	2.46	1.380	0.029	2.10	0.5118
18.81	1.38	27.45	514.51	2.43	1.380	0.027	1.99	0.51451

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
18.82	1.37	25.29	516.13	2.46	1.370	0.025	1.85	0.51613
18.83	1.37	23.06	515.5	2.46	1.370	0.023	1.68	0.5155
18.84	1.36	21.62	514.69	2.46	1.360	0.022	1.59	0.51469
18.85	1.35	20.95	513.61	2.43	1.350	0.021	1.55	0.51361
18.86	1.34	20.95	510.36	2.46	1.340	0.021	1.56	0.51036
18.87	1.31	20.6	511.08	2.43	1.310	0.021	1.57	0.51108
18.88	1.3	20.32	513.25	2.43	1.300	0.020	1.56	0.51325
18.89	1.3	19.94	514.6	2.43	1.300	0.020	1.53	0.5146
18.9	1.3	19.97	515.86	2.43	1.300	0.020	1.54	0.51586
18.91	1.29	20.25	516.85	2.43	1.290	0.020	1.57	0.51685
18.92	1.29	20.51	520.54	2.43	1.290	0.021	1.59	0.52054
18.93	1.3	20.6	525.68	2.43	1.300	0.021	1.58	0.52568
18.94	1.32	20.51	528.02	2.43	1.320	0.021	1.55	0.52802
18.95	1.33	20.83	530.28	2.43	1.330	0.021	1.57	0.53028
18.96	1.35	21.59	532.98	2.43	1.350	0.022	1.60	0.53298
18.97	1.36	22.39	535.23	2.43	1.360	0.022	1.65	0.53523
18.98	1.36	23.41	538.57	2.43	1.360	0.023	1.72	0.53857
18.99	1.37	24.2	539.74	2.43	1.370	0.024	1.77	0.53974
19	1.38	25.35	536.31	2.43	1.380	0.025	1.84	0.53631
19.01	1.38	26.46	534.06	2.43	1.380	0.026	1.92	0.53406
19.02	1.39	27.67	534.33	2.43	1.390	0.028	1.99	0.53433
19.03	1.39	28.88	534.06	2.43	1.390	0.029	2.08	0.53406
19.04	1.39	30.13	534.96	2.43	1.390	0.030	2.17	0.53496
19.05	1.38	31.37	538.02	2.43	1.380	0.031	2.27	0.53802
19.06	1.38	32.23	537.84	2.43	1.380	0.032	2.34	0.53784
19.07	1.38	33.06	539.02	2.43	1.380	0.033	2.40	0.53902
19.08	1.38	34.58	538.75	2.43	1.380	0.035	2.51	0.53875
19.09	1.38	35.67	537.84	2.43	1.380	0.036	2.58	0.53784
19.1	1.37	36.56	534.6	2.43	1.370	0.037	2.67	0.5346
19.11	1.36	36.88	529.74	2.43	1.360	0.037	2.71	0.52974
19.12	1.36	37.51	526.22	2.43	1.360	0.038	2.76	0.52622
19.13	1.36	39.52	524.06	2.43	1.360	0.040	2.91	0.52406
19.14	1.36	40.29	522.44	2.43	1.360	0.040	2.96	0.52244
19.15	1.37	40.57	520.18	2.43	1.370	0.041	2.96	0.52018
19.16	1.38	41.34	519.46	2.43	1.380	0.041	3.00	0.51946
19.17	1.38	41.81	516.13	2.43	1.380	0.042	3.03	0.51613
19.18	1.38	42.67	515.14	2.43	1.380	0.043	3.09	0.51514
19.19	1.38	42.99	511.71	2.43	1.380	0.043	3.12	0.51171
19.2	1.38	43.66	504.96	2.43	1.380	0.044	3.16	0.50496
19.21	1.36	45.09	497.93	2.43	1.360	0.045	3.32	0.49793
19.22	1.35	46.78	492.7	2.43	1.350	0.047	3.47	0.4927
19.23	1.34	47.93	487.93	2.43	1.340	0.048	3.58	0.48793
19.24	1.32	50.25	484.14	2.43	1.320	0.050	3.81	0.48414
19.25	1.32	50.86	483.87	2.43	1.320	0.051	3.85	0.48387
19.26	1.32	50.99	487.48	2.43	1.320	0.051	3.86	0.48748
19.27	1.31	51.05	492.88	2.43	1.310	0.051	3.90	0.49288
19.28	1.32	50.76	498.92	2.43	1.320	0.051	3.85	0.49892
19.29	1.33	49.71	504.42	2.43	1.330	0.050	3.74	0.50442
19.3	1.34	48.63	507.84	2.43	1.340	0.049	3.63	0.50784
19.31	1.34	47.45	511.08	2.43	1.340	0.047	3.54	0.51108
19.32	1.34	45.76	518.65	2.43	1.340	0.046	3.41	0.51865
19.33	1.35	44.43	527.93	2.43	1.350	0.044	3.29	0.52793
19.34	1.36	42.23	535.86	2.43	1.360	0.042	3.11	0.53586
19.35	1.38	40.13	543.88	2.43	1.380	0.040	2.91	0.54388
19.36	1.41	34.3	563.34	2.43	1.410	0.034	2.43	0.56334
19.37	1.45	31.43	571.81	2.43	1.450	0.031	2.17	0.57181
19.38	1.48	29.11	582.18	2.43	1.480	0.029	1.97	0.58218

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 04

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
19.39	1.53	27.04	597.68	2.43	1.530	0.027	1.77	0.59768
19.4	1.62	25.83	619.93	2.43	1.620	0.026	1.59	0.61993
19.41	1.73	25.41	637.68	2.43	1.730	0.025	1.47	0.63768
19.42	1.78	25.92	645.34	2.43	1.780	0.026	1.46	0.64534
19.43	1.83	26.59	644.44	2.43	1.830	0.027	1.45	0.64444
19.44	1.81	27.58	597.77	2.43	1.810	0.028	1.52	0.59777
19.45	1.72	31.11	557.58	2.43	1.720	0.031	1.81	0.55758
19.46	1.66	33.57	548.03	2.43	1.660	0.034	2.02	0.54803
19.47	1.58	35.54	540.82	2.4	1.580	0.036	2.25	0.54082
19.48	1.51	37.07	543.07	2.43	1.510	0.037	2.45	0.54307
19.49	1.47	37.71	554.78	2.4	1.470	0.038	2.57	0.55478
19.5	1.46	37.23	563.07	2.49	1.460	0.037	2.55	0.56307
19.51	1.46	37.13	575.51	2.49	1.460	0.037	2.54	0.57551
19.52	1.48	36.85	589.75	2.49	1.480	0.037	2.49	0.58975
19.53	1.5	36.37	599.12	2.46	1.500	0.036	2.42	0.59912
19.54	1.51	36.78	606.6	2.49	1.510	0.037	2.44	0.6066
19.55	1.51	38.02	610.47	2.46	1.510	0.038	2.52	0.61047
19.56	1.56	40.09	647.32	2.46	1.560	0.040	2.57	0.64732
19.57	1.68	41.02	722.47	2.46	1.680	0.041	2.44	0.72247
19.58	1.86	40.51	774.37	2.46	1.860	0.041	2.18	0.77437
19.59	2.06	38.72	827.27	2.46	2.060	0.039	1.88	0.82727
19.6	2.35	37.87	864.57	2.46	2.350	0.038	1.61	0.86457
19.61	2.6	38.34	511.71	2.46	2.600	0.038	1.47	0.51171
19.62	2.75	35.67	255.99	2.46	2.750	0.036	1.30	0.25599
19.63	2.63	34.42	270.93	2.48	2.630	0.034	1.31	0.27093
19.64	3.01	36.9	270.12	2.48	3.010	0.037	1.23	0.27012
19.65	3.31	41.17	269.58	2.48	3.310	0.041	1.24	0.26958
19.66	3.56	45.02	269.04	2.48	3.560	0.045	1.26	0.26904
19.67	3.75	49.22	269.04	2.48	3.750	0.049	1.31	0.26904
19.68	3.92	52.47	269.94	2.48	3.920	0.052	1.34	0.26994
19.69	4.11	55.43	271.11	2.48	4.110	0.055	1.35	0.27111
19.7	4.15	61.07	275.44	2.48	4.150	0.061	1.47	0.27544
19.71	4.17	65.68	279.5	2.48	4.170	0.066	1.58	0.2795
19.72	4.15	71.38	287.44	2.48	4.150	0.071	1.72	0.28744
19.73	4.12	82.21	301.61	2.48	4.120	0.082	2.00	0.30161
19.74	4.05	80.55	304.85	2.48	4.050	0.081	1.99	0.30485
19.75	3.9	73.13	294.84	2.48	3.900	0.073	1.88	0.29484
19.76	3.76	70.4	287.98	2.48	3.760	0.070	1.87	0.28798
19.77	3.52	68.45	284.28	2.48	3.520	0.068	1.94	0.28428
19.78	3.19	65.43	281.94	2.48	3.190	0.065	2.05	0.28194
19.79	2.8	61.77	280.49	2.48	2.800	0.062	2.21	0.28049
19.8	2.48	58.71	279.77	2.48	2.480	0.059	2.37	0.27977
19.81	2.21	57.98	279.41	2.48	2.210	0.058	2.62	0.27941
19.82	1.95	53.14	278.42	2.48	1.950	0.053	2.73	0.27842
19.83	2.22	51.87	277.7	2.48	2.220	0.052	2.34	0.2777
19.84	2.59	52.28	276.98	2.48	2.590	0.052	2.02	0.27698
19.85	3.14	52.31	276.16	2.48	3.140	0.052	1.67	0.27616
19.86	3.89	52.09	275.26	2.48	3.890	0.052	1.34	0.27526
19.87	4.45	50.08	274.45	2.53	4.450	0.050	1.13	0.27445
19.88	4.4	50.27	272.65	2.53	4.400	0.050	1.14	0.27265
19.89	4.3	51.96	271.83	2.53	4.300	0.052	1.21	0.27183
19.9	4.1	56.29	271.11	2.53	4.100	0.056	1.37	0.27111
19.91	3.9	58.84	270.57	2.53	3.900	0.059	1.51	0.27057
19.92	3.77	61.54	269.94	2.53	3.770	0.062	1.63	0.26994
19.93	3.73	64.35	269.13	2.53	3.730	0.064	1.73	0.26913
19.94	3.69	71.54	269.04	2.53	3.690	0.072	1.94	0.26904
19.95	3.69	72.75	271.56	2.53	3.690	0.073	1.97	0.27156

COMMITTENTE: TERNA			CANTIERE: Poggio Renatico			PROVA CPTU 04		
Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	**MPa**	**KPa**	**KPa**	**°**	**MPa**	**MPa**	**%**	
19.96	3.66	76.19	272.92	2.53	3.660	0.076	2.08	0.27292
19.97	3.54	76.25	275.53	2.53	3.540	0.076	2.15	0.27553
19.98	3.37	75.59	279.68	2.53	3.370	0.076	2.24	0.27968
19.99	3.17	74.47	281.4	2.53	3.170	0.074	2.35	0.2814
20	3.21	78.26	283.92	2.53	3.210	0.078	2.44	0.28392
20.01	3.08	79.62	283.92	2.53	3.080	0.080	2.59	0.28392

PROVA PENETROMETRICA STATICA

secondo Raccomandazioni AGI (1977)

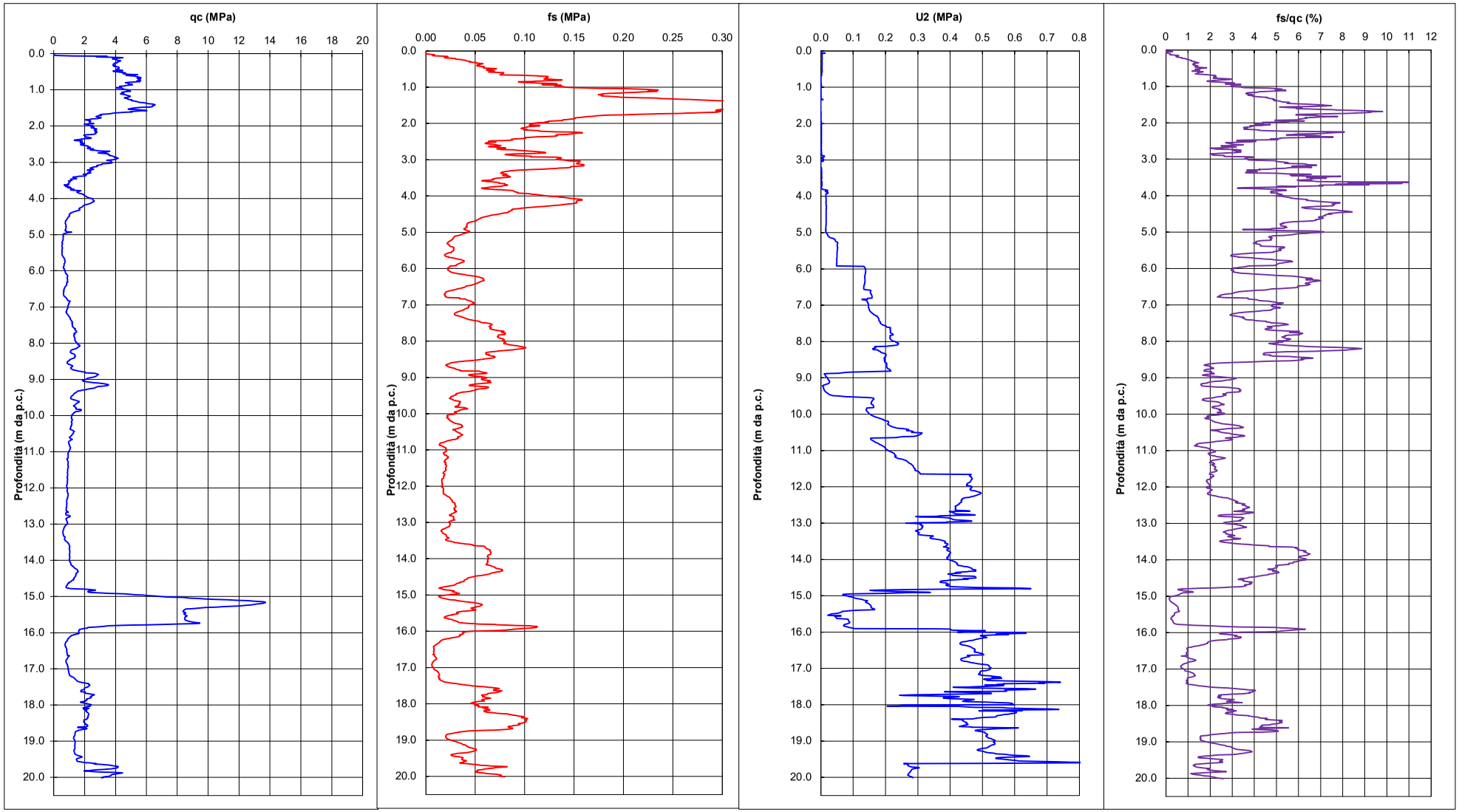
	Data giu-21		COMM. 000-20	PAG. 1	DI 1

Committente	**TERNA**						
Cantiere	**Poggio Renatico**						
N° Prova	**CPTU 04**	Data prova	**25/06/2021**	Operatore	G.A.		

Punta N.	MKJ542	Quota p.c.:	0.00	m.s.l.m.	Coordinate	**E** 0.00	**N** 0.00
Preforo	0.00 m	Livello H_2O	0.00	m da p.c.	Profondità finale	20.01 m da p.c.	

NOTE

COMMITTENTE: ERM - ENI



COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.01	0.09	0	1.8	3.25	0.090	0.000	0.00	0.0018
0.02	0.09	0	3.42	3.25	0.090	0.000	0.00	0.00342
0.03	0.47	0.03	4.6	3.26	0.470	0.000	0.01	0.0046
0.04	0.93	0.13	4.05	3.26	0.930	0.000	0.01	0.00405
0.05	1.64	0.86	3.87	3.27	1.640	0.001	0.05	0.00387
0.06	2.31	1.08	3.33	3.27	2.310	0.001	0.05	0.00333
0.07	2.53	2.93	3.06	3.17	2.530	0.003	0.12	0.00306
0.08	2.67	8.66	2.7	3.23	2.670	0.009	0.32	0.0027
0.09	2.38	11.66	2.61	3.08	2.380	0.012	0.49	0.00261
0.1	2.27	10.45	2.52	3.08	2.270	0.010	0.46	0.00252
0.11	2.19	13.6	1.08	3.08	2.190	0.014	0.62	0.00108
0.12	1.94	13.66	1.53	3.08	1.940	0.014	0.70	0.00153
0.13	2.08	27.1	1.62	3.08	2.080	0.027	1.30	0.00162
0.14	2.13	26.02	1.8	3.04	2.130	0.026	1.22	0.0018
0.15	2.32	26.15	1.62	2.98	2.320	0.026	1.13	0.00162
0.16	2.5	20.86	2.07	2.83	2.500	0.021	0.83	0.00207
0.17	2.73	20.35	2.34	2.83	2.730	0.020	0.75	0.00234
0.18	2.82	20.57	2.34	2.79	2.820	0.021	0.73	0.00234
0.19	2.87	24.78	2.61	2.82	2.870	0.025	0.86	0.00261
0.2	3	27.74	1.98	2.82	3.000	0.028	0.92	0.00198
0.21	2.65	28.73	1.53	2.78	2.650	0.029	1.08	0.00153
0.22	2.9	29.23	1.62	2.85	2.900	0.029	1.01	0.00162
0.23	2.73	35.16	1.26	2.85	2.730	0.035	1.29	0.00126
0.24	2.51	37.04	1.26	2.85	2.510	0.037	1.48	0.00126
0.25	2.51	37.04	1.26	2.85	2.510	0.037	1.48	0.00126
0.26	2.52	43.37	1.17	2.78	2.520	0.043	1.72	0.00117
0.27	2.44	47	1.26	2.78	2.440	0.047	1.93	0.00126
0.28	2.57	44.97	1.35	2.78	2.570	0.045	1.75	0.00135
0.29	2.81	39.68	1.62	2.78	2.810	0.040	1.41	0.00162
0.3	2.66	42.83	1.17	2.78	2.660	0.043	1.61	0.00117
0.31	2.15	50.38	0.81	2.78	2.150	0.050	2.34	0.00081
0.32	2.04	52.2	0.72	2.78	2.040	0.052	2.56	0.00072
0.33	2	50.38	0.81	2.74	2.000	0.050	2.52	0.00081
0.34	1.92	48.69	0.81	2.74	1.920	0.049	2.54	0.00081
0.35	1.89	47.71	0.81	2.68	1.890	0.048	2.52	0.00081
0.36	1.82	42.55	0.63	2.68	1.820	0.043	2.34	0.00063
0.37	2	43.15	0.36	2.64	2.000	0.043	2.16	0.00036
0.38	1.92	47.2	0.18	2.71	1.920	0.047	2.46	0.00018
0.39	1.7	52.96	-0.27	2.68	1.700	0.053	3.12	-0.00027
0.4	2.06	47.77	0.72	2.68	2.060	0.048	2.32	0.00072
0.41	2.06	47.77	0.72	2.68	2.060	0.048	2.32	0.00072
0.42	2.12	48.06	1.08	2.64	2.120	0.048	2.27	0.00108
0.43	2.12	47.23	1.17	2.64	2.120	0.047	2.23	0.00117
0.44	2.44	44.97	1.71	2.64	2.440	0.045	1.84	0.00171
0.45	2.33	41.56	1.71	2.61	2.330	0.042	1.78	0.00171
0.46	2.23	50.25	1.71	2.61	2.230	0.050	2.25	0.00171
0.47	2.08	53.5	1.53	2.61	2.080	0.054	2.57	0.00153
0.48	2.01	51.85	1.08	2.61	2.010	0.052	2.58	0.00108
0.49	2.01	51.85	1.08	2.61	2.010	0.052	2.58	0.00108
0.5	1.92	58.34	0.9	2.59	1.920	0.058	3.04	0.0009
0.51	1.89	65	0.99	2.59	1.890	0.065	3.44	0.00099
0.52	2.08	64.01	1.08	2.59	2.080	0.064	3.08	0.00108
0.53	2.31	61.24	1.53	2.66	2.310	0.061	2.65	0.00153
0.54	2.49	61.56	1.62	2.63	2.490	0.062	2.47	0.00162
0.55	2.27	64.55	1.44	2.63	2.270	0.065	2.84	0.00144
0.56	2.27	67.26	1.98	2.63	2.270	0.067	2.96	0.00198
0.57	2.38	68.92	1.89	2.61	2.380	0.069	2.90	0.00189

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
0.58	2.07	71.37	1.08	2.61	2.070	0.071	3.45	0.00108
0.59	1.86	76.27	0.63	2.61	1.860	0.076	4.10	0.00063
0.6	2.05	75.83	1.08	2.58	2.050	0.076	3.70	0.00108
0.61	2.41	73.56	1.71	2.58	2.410	0.074	3.05	0.00171
0.62	2.22	72.39	1.17	2.56	2.220	0.072	3.26	0.00117
0.63	2.32	70.51	1.98	2.56	2.320	0.071	3.04	0.00198
0.64	2.74	66.11	2.61	2.54	2.740	0.066	2.41	0.00261
0.65	3.1	65.09	2.79	2.54	3.100	0.065	2.10	0.00279
0.66	3.09	62.04	2.88	2.54	3.090	0.062	2.01	0.00288
0.67	3.45	59.78	2.97	2.54	3.450	0.060	1.73	0.00297
0.68	3.68	64.78	3.24	2.62	3.680	0.065	1.76	0.00324
0.69	3.84	77.64	3.06	2.62	3.840	0.078	2.02	0.00306
0.7	3.6	74.62	2.79	2.62	3.600	0.075	2.07	0.00279
0.71	3.45	84.93	2.79	2.62	3.450	0.085	2.46	0.00279
0.72	3.31	79.04	2.7	2.6	3.310	0.079	2.39	0.0027
0.73	3.34	76.02	2.61	2.6	3.340	0.076	2.28	0.00261
0.74	3.2	73.98	2.61	2.6	3.200	0.074	2.31	0.00261
0.75	3.01	77.7	2.07	2.6	3.010	0.078	2.58	0.00207
0.76	2.77	79.07	1.62	2.68	2.770	0.079	2.85	0.00162
0.77	2.75	80.51	1.62	2.69	2.750	0.081	2.93	0.00162
0.78	2.96	76.21	1.53	2.69	2.960	0.076	2.57	0.00153
0.79	2.82	77.48	1.53	2.69	2.820	0.077	2.75	0.00153
0.8	2.79	79.36	1.53	2.69	2.790	0.079	2.84	0.00153
0.81	2.79	79.77	1.53	2.68	2.790	0.080	2.86	0.00153
0.82	2.63	78.31	1.53	2.75	2.630	0.078	2.98	0.00153
0.83	2.76	80.73	1.62	2.69	2.760	0.081	2.93	0.00162
0.84	2.83	79.42	1.71	2.77	2.830	0.079	2.81	0.00171
0.85	3.08	79.3	1.8	2.77	3.080	0.079	2.57	0.0018
0.86	3.04	79.39	1.8	2.69	3.040	0.079	2.61	0.0018
0.87	2.77	85.35	1.53	2.77	2.770	0.085	3.08	0.00153
0.88	2.77	85.35	1.53	2.77	2.770	0.085	3.08	0.00153
0.89	2.76	87.93	1.62	2.69	2.760	0.088	3.19	0.00162
0.9	2.76	87.93	1.62	2.69	2.760	0.088	3.19	0.00162
0.91	2.76	87.93	1.62	2.69	2.760	0.088	3.19	0.00162
0.92	2.91	65.51	0.81	2.71	2.910	0.066	2.25	0.00081
0.93	2.82	76.14	0.72	2.71	2.820	0.076	2.70	0.00072
0.94	2.95	81.72	0.9	2.71	2.950	0.082	2.77	0.0009
0.95	2.96	80.22	0.81	2.71	2.960	0.080	2.71	0.00081
0.96	3.05	81.53	0.99	2.71	3.050	0.082	2.67	0.00099
0.97	3.16	84.14	1.08	2.71	3.160	0.084	2.66	0.00108
0.98	3.09	83.56	0.81	2.79	3.090	0.084	2.70	0.00081
0.99	3.07	92.39	0.9	2.79	3.070	0.092	3.01	0.0009
1	3.2	95	0.99	2.79	3.200	0.095	2.97	0.00099
1.01	3.51	88.56	1.17	2.79	3.510	0.089	2.52	0.00117
1.02	3.75	84.81	1.35	2.79	3.750	0.085	2.26	0.00135
1.03	3.96	83.76	1.53	2.79	3.960	0.084	2.12	0.00153
1.04	4.08	86.33	1.44	2.79	4.080	0.086	2.12	0.00144
1.05	4.2	94.39	1.62	2.88	4.200	0.094	2.25	0.00162
1.06	4.13	110.22	1.62	2.88	4.130	0.110	2.67	0.00162
1.07	4.29	117.8	1.71	2.88	4.290	0.118	2.75	0.00171
1.08	4.24	124.2	1.53	2.88	4.240	0.124	2.93	0.00153
1.09	3.92	132.07	1.35	2.88	3.920	0.132	3.37	0.00135
1.1	3.87	132.93	1.35	2.88	3.870	0.133	3.43	0.00135
1.11	3.95	135.12	1.17	2.86	3.950	0.135	3.42	0.00117
1.12	3.88	142.89	1.26	2.88	3.880	0.143	3.68	0.00126
1.13	4.02	145.89	1.35	2.88	4.020	0.146	3.63	0.00135
1.14	4.01	143.24	1.26	2.88	4.010	0.143	3.57	0.00126

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.15	3.39	154.52	0.36	2.88	3.390	0.155	4.56	0.00036
1.16	3.23	150.92	0.72	2.88	3.230	0.151	4.67	0.00072
1.17	3.66	148.56	1.08	2.88	3.660	0.149	4.06	0.00108
1.18	3.66	148.56	1.08	2.88	3.660	0.149	4.06	0.00108
1.19	3.61	155.6	0.99	2.88	3.610	0.156	4.31	0.00099
1.2	3.51	156.4	1.08	2.88	3.510	0.156	4.46	0.00108
1.21	3.65	152.7	1.26	2.88	3.650	0.153	4.18	0.00126
1.22	3.82	150.28	1.26	2.88	3.820	0.150	3.93	0.00126
1.23	3.78	149.39	1.17	2.88	3.780	0.149	3.95	0.00117
1.24	3.81	152.8	1.17	2.88	3.810	0.153	4.01	0.00117
1.25	3.73	157.35	1.08	2.88	3.730	0.157	4.22	0.00108
1.26	3.79	159.87	1.17	2.88	3.790	0.160	4.22	0.00117
1.27	4.03	154.01	1.26	2.88	4.030	0.154	3.82	0.00126
1.28	4.05	157.92	1.26	2.88	4.050	0.158	3.90	0.00126
1.29	3.95	169.9	1.08	2.88	3.950	0.170	4.30	0.00108
1.3	4.03	166.11	1.08	2.88	4.030	0.166	4.12	0.00108
1.31	4.11	171.4	1.08	2.88	4.110	0.171	4.17	0.00108
1.32	4.22	179.52	0	2.88	4.220	0.180	4.25	0
1.33	4.45	180.12	0.18	2.95	4.450	0.180	4.05	0.00018
1.34	4.59	182.67	0.45	2.95	4.590	0.183	3.98	0.00045
1.35	4.78	187.54	0.54	2.88	4.780	0.188	3.92	0.00054
1.36	4.95	198.02	0.45	2.93	4.950	0.198	4.00	0.00045
1.37	5.09	204.01	0.27	2.93	5.090	0.204	4.01	0.00027
1.38	5.29	208.18	-3.96	2.93	5.290	0.208	3.94	-0.00396
1.39	5.31	210.41	-4.23	2.93	5.310	0.210	3.96	-0.00423
1.4	5.34	212.35	-4.51	2.93	5.340	0.212	3.98	-0.00451
1.41	5.37	211.65	-3.6	2.93	5.370	0.212	3.94	-0.0036
1.42	5.57	208.46	-3.33	2.93	5.570	0.208	3.74	-0.00333
1.43	5.81	207.38	-3.6	2.86	5.810	0.207	3.57	-0.0036
1.44	5.92	206.62	-3.6	2.86	5.920	0.207	3.49	-0.0036
1.45	5.74	210.31	-3.69	2.84	5.740	0.210	3.66	-0.00369
1.46	5.49	215.41	-3.69	2.92	5.490	0.215	3.92	-0.00369
1.47	5.28	214.52	-3.78	2.84	5.280	0.215	4.06	-0.00378
1.48	5.1	212.35	-2.97	2.84	5.100	0.212	4.16	-0.00297
1.49	4.85	211.14	-2.97	2.84	4.850	0.211	4.35	-0.00297
1.5	4.7	206.49	-2.61	2.83	4.700	0.206	4.39	-0.00261
1.51	4.92	195.76	-2.16	2.83	4.920	0.196	3.98	-0.00216
1.52	5.44	190.03	-1.89	2.83	5.440	0.190	3.49	-0.00189
1.53	5.87	188.72	-1.71	2.83	5.870	0.189	3.21	-0.00171
1.54	5.87	188.72	-1.71	2.83	5.870	0.189	3.21	-0.00171
1.55	6.13	191.3	-1.89	2.83	6.130	0.191	3.12	-0.00189
1.56	6.27	194.64	-1.26	2.81	6.270	0.195	3.10	-0.00126
1.57	6.21	206.3	-0.9	2.74	6.210	0.206	3.32	-0.0009
1.58	6.06	220.44	0.63	2.74	6.060	0.220	3.64	0.00063
1.59	5.64	236.3	-2.97	2.74	5.640	0.236	4.19	-0.00297
1.6	5.2	245.34	-3.96	2.74	5.200	0.245	4.72	-0.00396
1.61	4.7	252.92	-6.67	2.74	4.700	0.253	5.38	-0.00667
1.62	4.36	255.47	-4.23	2.65	4.360	0.255	5.86	-0.00423
1.63	4.44	246.81	-2.7	2.65	4.440	0.247	5.56	-0.0027
1.64	4.29	239.86	-2.7	2.65	4.290	0.240	5.59	-0.0027
1.65	4.22	237.35	-2.61	2.73	4.220	0.237	5.62	-0.00261
1.66	4.07	233.69	-2.34	2.73	4.070	0.234	5.74	-0.00234
1.67	3.66	234.07	-2.7	2.73	3.660	0.234	6.40	-0.0027
1.68	3.39	226.71	-2.61	2.65	3.390	0.227	6.69	-0.00261
1.69	3.36	217.6	-2.34	2.65	3.360	0.218	6.48	-0.00234
1.7	3.51	205.73	-2.25	2.65	3.510	0.206	5.86	-0.00225
1.71	3.44	197.64	-2.07	2.72	3.440	0.198	5.75	-0.00207

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
1.72	3.12	186.94	-2.52	2.72	3.120	0.187	5.99	-0.00252
1.73	2.58	182.86	-2.52	2.72	2.580	0.183	7.09	-0.00252
1.74	2.67	174.58	-2.07	2.72	2.670	0.175	6.54	-0.00207
1.75	2.84	168.31	-1.98	2.72	2.840	0.168	5.93	-0.00198
1.76	2.84	162.45	-1.98	2.72	2.840	0.162	5.72	-0.00198
1.77	2.85	166.84	-1.89	2.72	2.850	0.167	5.85	-0.00189
1.78	2.96	166.36	-1.8	2.72	2.960	0.166	5.62	-0.0018
1.79	2.92	165.12	-1.89	2.71	2.920	0.165	5.65	-0.00189
1.8	3.11	157.99	-1.71	2.71	3.110	0.158	5.08	-0.00171
1.81	3.27	148.69	-1.62	2.71	3.270	0.149	4.55	-0.00162
1.82	3.27	148.47	-1.8	2.71	3.270	0.148	4.54	-0.0018
1.83	3.01	153.63	-1.98	2.71	3.010	0.154	5.10	-0.00198
1.84	2.9	156.97	-1.89	2.71	2.900	0.157	5.41	-0.00189
1.85	3.08	156.27	-1.8	2.71	3.080	0.156	5.07	-0.0018
1.86	2.93	159.68	-1.89	2.71	2.930	0.160	5.45	-0.00189
1.87	3.01	164.61	-1.8	2.78	3.010	0.165	5.47	-0.0018
1.88	3.25	164.13	-1.62	2.71	3.250	0.164	5.05	-0.00162
1.89	3.64	164.74	-1.62	2.71	3.640	0.165	4.53	-0.00162
1.9	3.64	164.74	-1.62	2.71	3.640	0.165	4.53	-0.00162
1.91	3.64	164.74	-1.62	2.71	3.640	0.165	4.53	-0.00162
1.92	3.32	178.08	-1.26	2.78	3.320	0.178	5.36	-0.00126
1.93	3.47	177.38	-1.26	2.78	3.470	0.177	5.11	-0.00126
1.94	3.58	176.71	-1.17	2.78	3.580	0.177	4.94	-0.00117
1.95	3.62	178.12	-1.17	2.78	3.620	0.178	4.92	-0.00117
1.96	3.54	182.13	-1.26	2.78	3.540	0.182	5.14	-0.00126
1.97	3.55	187.1	-1.26	2.78	3.550	0.187	5.27	-0.00126
1.98	3.55	187.1	-1.26	2.78	3.550	0.187	5.27	-0.00126
1.99	3.41	193.69	-1.53	2.7	3.410	0.194	5.68	-0.00153
2	3.31	191.87	-1.44	2.7	3.310	0.192	5.80	-0.00144
2.01	3.57	192.03	-1.35	2.7	3.570	0.192	5.38	-0.00135
2.02	3.69	186.94	-1.26	2.7	3.690	0.187	5.07	-0.00126
2.03	3.78	185.73	-1.26	2.7	3.780	0.186	4.91	-0.00126
2.04	3.86	184.87	-1.26	2.7	3.860	0.185	4.79	-0.00126
2.05	4.09	183.08	-1.26	2.7	4.090	0.183	4.48	-0.00126
2.06	4.07	187.54	-1.26	2.7	4.070	0.188	4.61	-0.00126
2.07	3.87	198.02	-1.35	2.7	3.870	0.198	5.12	-0.00135
2.08	3.52	207.13	-2.7	2.69	3.520	0.207	5.88	-0.0027
2.09	3.28	211.27	-8.74	2.69	3.280	0.211	6.44	-0.00874
2.1	3.12	214.67	-2.79	2.69	3.120	0.215	6.88	-0.00279
2.11	3.14	209.42	-2.07	2.69	3.140	0.209	6.67	-0.00207
2.12	3.25	200.73	-2.16	2.69	3.250	0.201	6.18	-0.00216
2.13	3.25	200.73	-2.16	2.69	3.250	0.201	6.18	-0.00216
2.14	3.07	199.45	-1.98	2.77	3.070	0.199	6.50	-0.00198
2.15	3.08	196.33	-1.89	2.69	3.080	0.196	6.37	-0.00189
2.16	3.18	194.45	-1.8	2.77	3.180	0.194	6.11	-0.0018
2.17	3.2	197.06	-1.89	2.69	3.200	0.197	6.16	-0.00189
2.18	2.99	198.43	-1.89	2.77	2.990	0.198	6.64	-0.00189
2.19	2.9	200.66	-1.89	2.77	2.900	0.201	6.92	-0.00189
2.2	3.02	194.17	-1.71	2.77	3.020	0.194	6.43	-0.00171
2.21	3.07	191.71	-1.71	2.77	3.070	0.192	6.24	-0.00171
2.22	3.15	188.47	-1.8	2.77	3.150	0.188	5.98	-0.0018
2.23	3.1	185.76	-1.98	2.77	3.100	0.186	5.99	-0.00198
2.24	3.08	184.64	-1.98	2.77	3.080	0.185	5.99	-0.00198
2.25	3.17	176.62	-1.71	2.77	3.170	0.177	5.57	-0.00171
2.26	3.15	173.53	-1.62	2.77	3.150	0.174	5.51	-0.00162
2.27	3.16	173.63	-1.71	2.77	3.160	0.174	5.49	-0.00171
2.28	3.25	172	-1.71	2.77	3.250	0.172	5.29	-0.00171

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.29	3.16	175.15	-1.8	2.77	3.160	0.175	5.54	-0.0018
2.3	2.81	178.27	-2.7	2.77	2.810	0.178	6.34	-0.0027
2.31	2.64	175.38	-2.07	2.77	2.640	0.175	6.64	-0.00207
2.32	2.66	166.4	-1.89	2.77	2.660	0.166	6.26	-0.00189
2.33	2.71	158.56	-1.8	2.77	2.710	0.159	5.85	-0.0018
2.34	2.78	156.21	-1.71	2.77	2.780	0.156	5.62	-0.00171
2.35	2.9	151.87	-1.53	2.85	2.900	0.152	5.24	-0.00153
2.36	3.09	151.59	-1.26	2.85	3.090	0.152	4.91	-0.00126
2.37	3.14	156.4	-1.26	2.85	3.140	0.156	4.98	-0.00126
2.38	3.09	165.19	0.27	2.85	3.090	0.165	5.35	0.00027
2.39	3.02	172.38	-1.62	2.85	3.020	0.172	5.71	-0.00162
2.4	2.9	173.72	-1.71	2.85	2.900	0.174	5.99	-0.00171
2.41	2.76	174.58	-1.53	2.93	2.760	0.175	6.33	-0.00153
2.42	2.78	175.92	-1.26	2.93	2.780	0.176	6.33	-0.00126
2.43	2.8	180.03	-1.17	2.93	2.800	0.180	6.43	-0.00117
2.44	2.84	179.9	-1.26	2.93	2.840	0.180	6.33	-0.00126
2.45	2.81	180.09	-5.23	2.93	2.810	0.180	6.41	-0.00523
2.46	2.73	181.01	-3.69	3.01	2.730	0.181	6.63	-0.00369
2.47	2.6	182.45	-1.71	3.01	2.600	0.182	7.02	-0.00171
2.48	2.56	181.59	-1.62	3.01	2.560	0.182	7.09	-0.00162
2.49	2.56	181.97	-1.62	3.01	2.560	0.182	7.11	-0.00162
2.5	2.59	182.57	-1.62	3.01	2.590	0.183	7.05	-0.00162
2.51	2.56	181.2	-1.26	3.01	2.560	0.181	7.08	-0.00126
2.52	2.48	182.54	-9.01	3.01	2.480	0.183	7.36	-0.00901
2.53	2.51	182.32	-2.16	3.09	2.510	0.182	7.26	-0.00216
2.54	2.56	179.48	-1.8	3.09	2.560	0.179	7.01	-0.0018
2.55	2.61	175.47	-1.62	3.09	2.610	0.175	6.72	-0.00162
2.56	2.6	173.66	-1.62	3.1	2.600	0.174	6.68	-0.00162
2.57	2.42	177.54	-1.44	3.1	2.420	0.178	7.34	-0.00144
2.58	2.42	173.59	-1.35	3.1	2.420	0.174	7.17	-0.00135
2.59	2.49	171.87	-1.35	3.17	2.490	0.172	6.90	-0.00135
2.6	2.59	169.13	-1.35	3.1	2.590	0.169	6.53	-0.00135
2.61	2.68	169.93	-1.44	3.17	2.680	0.170	6.34	-0.00144
2.62	2.69	168.5	-2.25	3.17	2.690	0.169	6.26	-0.00225
2.63	2.53	170.34	-1.71	3.17	2.530	0.170	6.73	-0.00171
2.64	2.53	170.34	-1.71	3.17	2.530	0.170	6.73	-0.00171
2.65	2.47	172.57	-1.62	3.17	2.470	0.173	6.99	-0.00162
2.66	2.54	168.31	-1.62	3.17	2.540	0.168	6.63	-0.00162
2.67	2.56	167.45	-1.62	3.17	2.560	0.167	6.54	-0.00162
2.68	2.7	167.73	-1.44	3.17	2.700	0.168	6.21	-0.00144
2.69	2.78	165.95	-1.53	3.18	2.780	0.166	5.97	-0.00153
2.7	2.91	163.21	-1.26	3.18	2.910	0.163	5.61	-0.00126
2.71	3.05	158.47	-1.35	3.18	3.050	0.158	5.20	-0.00135
2.72	3.06	155.95	1.08	3.18	3.060	0.156	5.10	0.00108
2.73	2.96	159.52	11.89	3.26	2.960	0.160	5.39	0.01189
2.74	2.84	159.14	10.09	3.27	2.840	0.159	5.60	0.01009
2.75	2.92	158.28	9.55	3.27	2.920	0.158	5.42	0.00955
2.76	2.99	156.11	-11.44	3.27	2.990	0.156	5.22	-0.01144
2.77	3.02	152.1	-5.59	3.27	3.020	0.152	5.04	-0.00559
2.78	2.85	152.83	-2.52	3.28	2.850	0.153	5.36	-0.00252
2.79	2.51	153.88	-2.25	3.28	2.510	0.154	6.13	-0.00225
2.8	2.2	154.14	-2.43	3.28	2.200	0.154	7.01	-0.00243
2.81	2.22	150.15	-1.98	3.28	2.220	0.150	6.76	-0.00198
2.82	2.24	149.39	-1.71	3.29	2.240	0.149	6.67	-0.00171
2.83	2.2	150.6	-1.17	3.29	2.200	0.151	6.85	-0.00117
2.84	2.16	148.08	-0.72	3.29	2.160	0.148	6.86	-0.00072
2.85	2.37	141.91	-0.63	3.31	2.370	0.142	5.99	-0.00063

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
2.86	2.56	135.09	-0.45	3.31	2.560	0.135	5.28	-0.00045
2.87	2.68	133.75	-0.54	3.38	2.680	0.134	4.99	-0.00054
2.88	2.76	130.95	0.54	3.4	2.760	0.131	4.74	0.00054
2.89	2.42	128.4	0.45	3.4	2.420	0.128	5.31	0.00045
2.9	2.42	128.4	0.45	3.4	2.420	0.128	5.31	0.00045
2.91	2.42	128.4	0.45	3.4	2.420	0.128	5.31	0.00045
2.92	2.79	118.44	2.25	3.36	2.790	0.118	4.25	0.00225
2.93	1.62	120.95	-0.36	3.36	1.620	0.121	7.47	-0.00036
2.94	1.65	120.51	2.97	3.45	1.650	0.121	7.30	0.00297
2.95	2	114.87	5.32	3.38	2.000	0.115	5.74	0.00532
2.96	2.11	117.45	5.14	3.38	2.110	0.117	5.57	0.00514
2.97	2.2	116.68	4.42	3.4	2.200	0.117	5.30	0.00442
2.98	2.32	117.38	3.96	3.48	2.320	0.117	5.06	0.00396
2.99	2.4	119.77	3.42	3.48	2.400	0.120	4.99	0.00342
3	2.09	125.66	1.8	3.5	2.090	0.126	6.01	0.0018
3.01	2.34	125.47	1.89	3.43	2.340	0.125	5.36	0.00189
3.02	2.46	131.14	2.88	3.45	2.460	0.131	5.33	0.00288
3.03	2.53	136.81	2.88	3.52	2.530	0.137	5.41	0.00288
3.04	2.17	138.69	2.34	3.52	2.170	0.139	6.39	0.00234
3.05	2.08	131.94	1.98	3.55	2.080	0.132	6.34	0.00198
3.06	1.84	121.02	1.17	3.48	1.840	0.121	6.58	0.00117
3.07	1.75	113.5	1.26	3.48	1.750	0.114	6.49	0.00126
3.08	1.85	108.56	1.8	3.5	1.850	0.109	5.87	0.0018
3.09	1.79	111.05	1.98	3.5	1.790	0.111	6.20	0.00198
3.1	1.64	111.53	1.89	3.5	1.640	0.112	6.80	0.00189
3.11	1.63	110.35	1.98	3.53	1.630	0.110	6.77	0.00198
3.12	1.65	108.12	1.53	3.53	1.650	0.108	6.55	0.00153
3.13	1.75	108.66	1.98	3.53	1.750	0.109	6.21	0.00198
3.14	1.82	103.25	1.98	3.56	1.820	0.103	5.67	0.00198
3.15	1.88	96.65	1.98	3.56	1.880	0.097	5.14	0.00198
3.16	2.04	90.6	2.34	3.56	2.040	0.091	4.44	0.00234
3.17	2.13	86.65	2.61	3.59	2.130	0.087	4.07	0.00261
3.18	1.94	85.09	1.98	3.59	1.940	0.085	4.39	0.00198
3.19	1.94	85.09	1.98	3.59	1.940	0.085	4.39	0.00198
3.2	1.93	83.6	1.98	3.59	1.930	0.084	4.33	0.00198
3.21	1.97	83.5	2.07	3.62	1.970	0.084	4.24	0.00207
3.22	1.99	81.02	1.44	3.62	1.990	0.081	4.07	0.00144
3.23	1.65	79.71	1.62	3.66	1.650	0.080	4.83	0.00162
3.24	1.87	74.74	1.89	3.66	1.870	0.075	4.00	0.00189
3.25	1.92	71.43	1.44	3.66	1.920	0.071	3.72	0.00144
3.26	1.72	69.17	0.9	3.69	1.720	0.069	4.02	0.0009
3.27	1.48	68.85	0.81	3.69	1.480	0.069	4.65	0.00081
3.28	1.37	73.5	1.26	3.69	1.370	0.074	5.36	0.00126
3.29	1.2	76.81	1.8	3.72	1.200	0.077	6.40	0.0018
3.3	1.23	78.72	2.07	3.79	1.230	0.079	6.40	0.00207
3.31	1.14	81.24	1.89	3.72	1.140	0.081	7.13	0.00189
3.32	1.1	79.84	1.71	3.72	1.100	0.080	7.26	0.00171
3.33	1.01	77.74	1.53	3.76	1.010	0.078	7.70	0.00153
3.34	1.01	73.6	1.53	3.76	1.010	0.074	7.29	0.00153
3.35	1.23	68.02	1.35	3.76	1.230	0.068	5.53	0.00135
3.36	1.38	63.53	0.9	3.76	1.380	0.064	4.60	0.0009
3.37	1.23	60.54	-0.72	3.8	1.230	0.061	4.92	-0.00072
3.38	1.25	59.07	-0.36	3.8	1.250	0.059	4.73	-0.00036
3.39	1.28	59.49	0.09	3.8	1.280	0.059	4.65	0.00009
3.4	1.28	61.75	-0.18	3.84	1.280	0.062	4.82	-0.00018
3.41	1.22	67.51	-0.45	3.84	1.220	0.068	5.53	-0.00045
3.42	1.2	74.36	-0.36	3.84	1.200	0.074	6.20	-0.00036

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
3.43	1.15	77.48	-0.63	3.84	1.150	0.077	6.74	-0.00063
3.44	1.16	79.52	-0.36	3.87	1.160	0.080	6.86	-0.00036
3.45	1.18	81.14	-0.27	3.87	1.180	0.081	6.88	-0.00027
3.46	1.14	82.51	-0.45	3.87	1.140	0.083	7.24	-0.00045
3.47	1.18	85.51	-2.16	3.81	1.180	0.086	7.25	-0.00216
3.48	1.28	88.85	-3.42	3.81	1.280	0.089	6.94	-0.00342
3.49	1.28	88.85	-3.42	3.81	1.280	0.089	6.94	-0.00342
3.5	1.29	89.42	-1.62	3.85	1.290	0.089	6.93	-0.00162
3.51	1.27	90.22	-1.17	3.85	1.270	0.090	7.10	-0.00117
3.52	1.09	90.79	7.57	3.85	1.090	0.091	8.33	0.00757
3.53	1.14	88.25	-1.08	3.85	1.140	0.088	7.74	-0.00108
3.54	1.26	85.16	-7.3	3.89	1.260	0.085	6.76	-0.0073
3.55	1.33	84.17	6.13	3.89	1.330	0.084	6.33	0.00613
3.56	1.28	84.87	9.91	3.89	1.280	0.085	6.63	0.00991
3.57	1.29	85.44	-0.36	3.89	1.290	0.085	6.62	-0.00036
3.58	1.2	85.06	8.47	3.89	1.200	0.085	7.09	0.00847
3.59	1.1	83.85	0.36	3.87	1.100	0.084	7.62	0.00036
3.6	1.18	82.67	-6.22	3.87	1.180	0.083	7.01	-0.00622
3.61	1.26	83.28	-10.27	3.87	1.260	0.083	6.61	-0.01027
3.62	1.25	81.33	-15.95	3.87	1.250	0.081	6.51	-0.01595
3.63	1.22	81.24	-16.22	3.81	1.220	0.081	6.66	-0.01622
3.64	1.22	79.65	-15.41	3.81	1.220	0.080	6.53	-0.01541
3.65	1.22	77.74	-23.25	3.86	1.220	0.078	6.37	-0.02325
3.66	1.25	76.21	-1.89	3.86	1.250	0.076	6.10	-0.00189
3.67	1.23	73.72	-1.62	3.86	1.230	0.074	5.99	-0.00162
3.68	1.38	70.16	-1.44	3.8	1.380	0.070	5.08	-0.00144
3.69	1.41	67.9	-1.35	3.8	1.410	0.068	4.82	-0.00135
3.7	1.45	66.65	1.44	3.8	1.450	0.067	4.60	0.00144
3.71	1.39	66.59	15.14	3.84	1.390	0.067	4.79	0.01514
3.72	1.39	66.59	15.14	3.84	1.390	0.067	4.79	0.01514
3.73	1.26	65.28	15.32	3.84	1.260	0.065	5.18	0.01532
3.74	1.1	62.55	-10.72	3.84	1.100	0.063	5.69	-0.01072
3.75	1.11	61.85	-27.12	3.79	1.110	0.062	5.57	-0.02712
3.76	1.22	60.22	-24.33	3.79	1.220	0.060	4.94	-0.02433
3.77	1.29	60.48	-11.71	3.79	1.290	0.060	4.69	-0.01171
3.78	1.32	61.34	-5.59	3.73	1.320	0.061	4.65	-0.00559
3.79	1.3	60.73	0	3.73	1.300	0.061	4.67	0
3.8	1.18	60.28	-8.92	3.73	1.180	0.060	5.11	-0.00892
3.81	1.4	60.28	-16.76	3.73	1.400	0.060	4.31	-0.01676
3.82	1.4	59.23	-3.06	3.73	1.400	0.059	4.23	-0.00306
3.83	1.37	61.18	-0.45	3.67	1.370	0.061	4.47	-0.00045
3.84	1.5	60.06	-1.17	3.72	1.500	0.060	4.00	-0.00117
3.85	1.6	58.66	1.71	3.72	1.600	0.059	3.67	0.00171
3.86	1.59	57.77	3.78	3.72	1.590	0.058	3.63	0.00378
3.87	1.59	57.42	-1.8	3.72	1.590	0.057	3.61	-0.0018
3.88	1.59	57.23	1.89	3.67	1.590	0.057	3.60	0.00189
3.89	1.58	58.21	3.96	3.67	1.580	0.058	3.68	0.00396
3.9	1.58	58.21	3.96	3.67	1.580	0.058	3.68	0.00396
3.91	1.58	58.21	3.96	3.67	1.580	0.058	3.68	0.00396
3.92	1.71	61.53	11.53	3.67	1.710	0.062	3.60	0.01153
3.93	1.71	63.63	13.34	3.67	1.710	0.064	3.72	0.01334
3.94	1.72	66.27	17.3	3.67	1.720	0.066	3.85	0.0173
3.95	1.74	68.85	18.47	3.67	1.740	0.069	3.96	0.01847
3.96	1.76	72.1	19.37	3.67	1.760	0.072	4.10	0.01937
3.97	1.78	74.81	20.36	3.61	1.780	0.075	4.20	0.02036
3.98	1.79	77.93	20.72	3.61	1.790	0.078	4.35	0.02072
3.99	1.81	81.21	21.08	3.61	1.810	0.081	4.49	0.02108

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4	1.82	85	21.36	3.61	1.820	0.085	4.67	0.02136
4.01	1.85	89.14	21.54	3.61	1.850	0.089	4.82	0.02154
4.02	1.88	92.7	21.72	3.56	1.880	0.093	4.93	0.02172
4.03	1.92	95.35	22.17	3.61	1.920	0.095	4.97	0.02217
4.04	1.92	95.35	22.17	3.61	1.920	0.095	4.97	0.02217
4.05	1.93	96.94	22.98	3.56	1.930	0.097	5.02	0.02298
4.06	1.93	99.01	22.89	3.56	1.930	0.099	5.13	0.02289
4.07	1.94	100.57	22.53	3.56	1.940	0.101	5.18	0.02253
4.08	1.94	102.03	22.44	3.56	1.940	0.102	5.26	0.02244
4.09	1.92	102.61	21.72	3.56	1.920	0.103	5.34	0.02172
4.1	1.92	102.93	21.27	3.61	1.920	0.103	5.36	0.02127
4.11	1.89	103.6	21.63	3.56	1.890	0.104	5.48	0.02163
4.12	1.88	104.14	21.72	3.56	1.880	0.104	5.54	0.02172
4.13	1.87	106.24	21.9	3.61	1.870	0.106	5.68	0.0219
4.14	1.85	107.48	22.71	3.56	1.850	0.107	5.81	0.02271
4.15	1.82	108.37	23.07	3.61	1.820	0.108	5.95	0.02307
4.16	1.77	108.69	22.98	3.56	1.770	0.109	6.14	0.02298
4.17	1.72	107.99	22.71	3.61	1.720	0.108	6.28	0.02271
4.18	1.66	105.6	22.35	3.61	1.660	0.106	6.36	0.02235
4.19	1.64	104.1	22.08	3.61	1.640	0.104	6.35	0.02208
4.2	1.6	102.96	21.81	3.61	1.600	0.103	6.44	0.02181
4.21	1.57	102.99	21.81	3.61	1.570	0.103	6.56	0.02181
4.22	1.54	103.18	21.63	3.61	1.540	0.103	6.70	0.02163
4.23	1.51	102.8	22.08	3.61	1.510	0.103	6.81	0.02208
4.24	1.49	103.63	25.86	3.61	1.490	0.104	6.96	0.02586
4.25	1.46	103.82	27.39	3.56	1.460	0.104	7.11	0.02739
4.26	1.42	103.4	28.47	3.56	1.420	0.103	7.28	0.02847
4.27	1.39	102.48	30.64	3.61	1.390	0.102	7.37	0.03064
4.28	1.35	101.05	31.18	3.56	1.350	0.101	7.49	0.03118
4.29	1.29	99.84	31.45	3.56	1.290	0.100	7.74	0.03145
4.3	1.22	98.6	31.27	3.56	1.220	0.099	8.08	0.03127
4.31	1.17	96.21	31	3.56	1.170	0.096	8.22	0.031
4.32	1.13	92.99	30.73	3.56	1.130	0.093	8.23	0.03073
4.33	1.11	90.06	30.46	3.56	1.110	0.090	8.11	0.03046
4.34	1.08	87.7	30.28	3.56	1.080	0.088	8.12	0.03028
4.35	1.08	87.7	30.28	3.56	1.080	0.088	8.12	0.03028
4.36	1.04	85.28	30.1	3.61	1.040	0.085	8.20	0.0301
4.37	1.02	82.93	29.92	3.61	1.020	0.083	8.13	0.02992
4.38	0.99	80.98	29.83	3.66	0.990	0.081	8.18	0.02983
4.39	0.95	78.44	29.64	3.61	0.950	0.078	8.26	0.02964
4.4	0.92	75.79	29.55	3.61	0.920	0.076	8.24	0.02955
4.41	0.91	73.53	29.37	3.61	0.910	0.074	8.08	0.02937
4.42	0.9	71.21	29.19	3.61	0.900	0.071	7.91	0.02919
4.43	0.9	69.55	29.92	3.61	0.900	0.070	7.73	0.02992
4.44	0.89	68.47	32.44	3.61	0.890	0.068	7.69	0.03244
4.45	0.89	67.29	32.98	3.61	0.890	0.067	7.56	0.03298
4.46	0.88	66.4	32.98	3.61	0.880	0.066	7.55	0.03298
4.47	0.86	65.54	33.61	3.61	0.860	0.066	7.62	0.03361
4.48	0.86	63.92	36.94	3.66	0.860	0.064	7.43	0.03694
4.49	0.86	63.02	37.21	3.66	0.860	0.063	7.33	0.03721
4.5	0.87	61.97	38.39	3.66	0.870	0.062	7.12	0.03839
4.51	0.87	60.32	38.39	3.66	0.870	0.060	6.93	0.03839
4.52	0.85	59.33	38.11	3.66	0.850	0.059	6.98	0.03811
4.53	0.82	58.41	38.21	3.66	0.820	0.058	7.12	0.03821
4.54	0.8	56.97	38.11	3.66	0.800	0.057	7.12	0.03811
4.55	0.79	55.73	38.11	3.66	0.790	0.056	7.05	0.03811
4.56	0.78	54.62	37.93	3.66	0.780	0.055	7.00	0.03793

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
4.57	0.76	53.76	37.84	3.66	0.760	0.054	7.07	0.03784
4.58	0.74	52.45	37.66	3.66	0.740	0.052	7.09	0.03766
4.59	0.71	52	37.57	3.66	0.710	0.052	7.32	0.03757
4.6	0.7	50.7	37.48	3.66	0.700	0.051	7.24	0.03748
4.61	0.7	50.7	37.48	3.66	0.700	0.051	7.24	0.03748
4.62	0.69	49.74	37.39	3.72	0.690	0.050	7.21	0.03739
4.63	0.68	48.47	37.3	3.72	0.680	0.048	7.13	0.0373
4.64	0.67	47.29	37.39	3.72	0.670	0.047	7.06	0.03739
4.65	0.67	46.18	37.39	3.72	0.670	0.046	6.89	0.03739
4.66	0.67	45.32	37.39	3.72	0.670	0.045	6.76	0.03739
4.67	0.67	44.46	38.3	3.72	0.670	0.044	6.64	0.0383
4.68	0.67	43.66	38.3	3.72	0.670	0.044	6.52	0.0383
4.69	0.67	42.58	38.3	3.72	0.670	0.043	6.36	0.0383
4.7	0.67	41.53	38.39	3.72	0.670	0.042	6.20	0.03839
4.71	0.68	40.29	38.39	3.77	0.680	0.040	5.93	0.03839
4.72	0.68	39.46	38.75	3.77	0.680	0.039	5.80	0.03875
4.73	0.68	38.63	38.93	3.77	0.680	0.039	5.68	0.03893
4.74	0.7	37.55	39.83	3.77	0.700	0.038	5.36	0.03983
4.75	0.7	36.65	42.08	3.77	0.700	0.037	5.24	0.04208
4.76	0.71	35.8	43.07	3.77	0.710	0.036	5.04	0.04307
4.77	0.73	34.58	44.06	3.73	0.730	0.035	4.74	0.04406
4.78	0.74	33.85	44.6	3.73	0.740	0.034	4.57	0.0446
4.79	0.75	33.5	45.14	3.73	0.750	0.034	4.47	0.04514
4.8	0.78	33.18	44.96	3.73	0.780	0.033	4.25	0.04496
4.81	0.81	41.37	38.3	3.74	0.810	0.041	5.11	0.0383
4.82	0.81	41.37	38.3	3.74	0.810	0.041	5.11	0.0383
4.83	0.78	41.78	43.52	3.74	0.780	0.042	5.36	0.04352
4.84	0.76	42.96	45.05	3.74	0.760	0.043	5.65	0.04505
4.85	0.74	43.37	47.67	3.74	0.740	0.043	5.86	0.04767
4.86	0.71	44.04	50.01	3.74	0.710	0.044	6.20	0.05001
4.87	0.7	43.66	52.53	3.74	0.700	0.044	6.24	0.05253
4.88	0.7	42.32	56.68	3.74	0.700	0.042	6.05	0.05668
4.89	0.7	41.43	67.22	3.74	0.700	0.041	5.92	0.06722
4.9	0.69	40.09	82.81	3.74	0.690	0.040	5.81	0.08281
4.91	0.69	39.11	104.61	3.74	0.690	0.039	5.67	0.10461
4.92	0.7	38.15	120.74	3.79	0.700	0.038	5.45	0.12074
4.93	0.7	36.94	127.05	3.74	0.700	0.037	5.28	0.12705
4.94	0.7	36.05	129.57	3.79	0.700	0.036	5.15	0.12957
4.95	0.7	35.64	130.2	3.79	0.700	0.036	5.09	0.1302
4.96	0.69	34.49	130.47	3.79	0.690	0.034	5.00	0.13047
4.97	0.68	33.31	130.38	3.79	0.680	0.033	4.90	0.13038
4.98	0.66	32.26	130.56	3.79	0.660	0.032	4.89	0.13056
4.99	0.67	31.08	130.65	3.89	0.670	0.031	4.64	0.13065
5	0.68	30.38	130.65	3.84	0.680	0.030	4.47	0.13065
5.01	0.69	29.62	130.65	3.84	0.690	0.030	4.29	0.13065
5.02	0.7	29.43	130.47	3.84	0.700	0.029	4.20	0.13047
5.03	0.69	29.65	130.38	3.89	0.690	0.030	4.30	0.13038
5.04	0.69	29.71	130.47	3.89	0.690	0.030	4.31	0.13047
5.05	0.68	30.09	130.56	3.89	0.680	0.030	4.43	0.13056
5.06	0.68	30.57	130.38	3.84	0.680	0.031	4.50	0.13038
5.07	0.68	30.86	130.02	3.84	0.680	0.031	4.54	0.13002
5.08	0.68	31.27	129.48	3.84	0.680	0.031	4.60	0.12948
5.09	0.67	31.85	128.67	3.84	0.670	0.032	4.75	0.12867
5.1	0.66	32.1	127.95	3.84	0.660	0.032	4.86	0.12795
5.11	0.64	32.64	127.23	3.84	0.640	0.033	5.10	0.12723
5.12	0.64	32.96	126.69	3.84	0.640	0.033	5.15	0.12669
5.13	0.63	33.6	126.6	3.84	0.630	0.034	5.33	0.1266

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.14	0.61	34.08	126.51	3.9	0.610	0.034	5.59	0.12651
5.15	0.6	34.71	126.24	3.9	0.600	0.035	5.79	0.12624
5.16	0.59	34.81	126.06	3.9	0.590	0.035	5.90	0.12606
5.17	0.58	34.65	125.88	3.9	0.580	0.035	5.97	0.12588
5.18	0.57	34.33	125.7	3.9	0.570	0.034	6.02	0.1257
5.19	0.57	33.79	125.52	3.9	0.570	0.034	5.93	0.12552
5.2	0.58	33.12	125.52	3.9	0.580	0.033	5.71	0.12552
5.21	0.59	32.48	125.52	3.9	0.590	0.032	5.51	0.12552
5.22	0.61	31.66	125.43	3.9	0.610	0.032	5.19	0.12543
5.23	0.62	30.8	125.52	3.9	0.620	0.031	4.97	0.12552
5.24	0.65	29.74	125.52	3.9	0.650	0.030	4.58	0.12552
5.25	0.68	28.5	125.07	3.9	0.680	0.029	4.19	0.12507
5.26	0.7	28.18	127.05	3.9	0.700	0.028	4.03	0.12705
5.27	0.74	28.12	131.92	3.95	0.740	0.028	3.80	0.13192
5.28	0.67	27.58	132.01	3.95	0.670	0.028	4.12	0.13201
5.29	0.65	28.41	131.83	3.95	0.650	0.028	4.37	0.13183
5.3	0.65	27.96	131.56	3.9	0.650	0.028	4.30	0.13156
5.31	0.64	28.53	131.74	3.9	0.640	0.029	4.46	0.13174
5.32	0.63	29.01	131.56	3.9	0.630	0.029	4.60	0.13156
5.33	0.62	29.36	131.47	3.9	0.620	0.029	4.74	0.13147
5.34	0.61	29.65	131.28	3.9	0.610	0.030	4.86	0.13128
5.35	0.62	29.74	131.38	3.9	0.620	0.030	4.80	0.13138
5.36	0.62	29.84	131.19	3.95	0.620	0.030	4.81	0.13119
5.37	0.62	29.81	131.38	3.9	0.620	0.030	4.81	0.13138
5.38	0.63	29.43	132.1	3.85	0.630	0.029	4.67	0.1321
5.39	0.65	29.17	132.64	3.85	0.650	0.029	4.49	0.13264
5.4	0.66	28.73	132.55	3.9	0.660	0.029	4.35	0.13255
5.41	0.68	28.25	132.28	3.85	0.680	0.028	4.15	0.13228
5.42	0.69	28.37	131.92	3.85	0.690	0.028	4.11	0.13192
5.43	0.7	27.99	131.74	3.85	0.700	0.028	4.00	0.13174
5.44	0.71	27.2	131.47	3.85	0.710	0.027	3.83	0.13147
5.45	0.72	26.72	131.28	3.85	0.720	0.027	3.71	0.13128
5.46	0.73	26.46	131.1	3.85	0.730	0.026	3.62	0.1311
5.47	0.74	26.37	130.83	3.85	0.740	0.026	3.56	0.13083
5.48	0.75	26.85	130.65	3.85	0.750	0.027	3.58	0.13065
5.49	0.75	27.67	130.38	3.85	0.750	0.028	3.69	0.13038
5.5	0.77	28.73	130.29	3.85	0.770	0.029	3.73	0.13029
5.51	0.77	29.84	130.11	3.85	0.770	0.030	3.88	0.13011
5.52	0.78	31.27	130.02	3.85	0.780	0.031	4.01	0.13002
5.53	0.77	32.45	130.02	3.85	0.770	0.032	4.21	0.13002
5.54	0.77	33.88	130.11	3.85	0.770	0.034	4.40	0.13011
5.55	0.76	35	129.93	3.85	0.760	0.035	4.61	0.12993
5.56	0.77	35.89	129.75	3.85	0.770	0.036	4.66	0.12975
5.57	0.77	36.72	129.66	3.85	0.770	0.037	4.77	0.12966
5.58	0.77	37.67	129.57	3.85	0.770	0.038	4.89	0.12957
5.59	0.77	38.15	129.21	3.85	0.770	0.038	4.95	0.12921
5.6	0.77	38.34	129.03	3.85	0.770	0.038	4.98	0.12903
5.61	0.78	38.37	128.94	3.81	0.780	0.038	4.92	0.12894
5.62	0.77	38.31	129.21	3.81	0.770	0.038	4.98	0.12921
5.63	0.77	38.18	129.39	3.87	0.770	0.038	4.96	0.12939
5.64	0.75	37.87	129.48	3.87	0.750	0.038	5.05	0.12948
5.65	0.74	37.55	129.21	3.87	0.740	0.038	5.07	0.12921
5.66	0.71	36.88	128.94	3.87	0.710	0.037	5.19	0.12894
5.67	0.69	36.5	128.4	3.87	0.690	0.037	5.29	0.1284
5.68	0.67	35.73	127.5	3.87	0.670	0.036	5.33	0.1275
5.69	0.65	35.13	125.52	3.87	0.650	0.035	5.40	0.12552
5.7	0.63	34.58	124.71	3.87	0.630	0.035	5.49	0.12471

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
5.71	0.6	34.71	124.17	3.87	0.600	0.035	5.79	0.12417
5.72	0.59	34.23	124.17	3.87	0.590	0.034	5.80	0.12417
5.73	0.57	33.69	124.98	3.87	0.570	0.034	5.91	0.12498
5.74	0.55	33.37	124.62	3.87	0.550	0.033	6.07	0.12462
5.75	0.52	32.93	124.17	3.87	0.520	0.033	6.33	0.12417
5.76	0.5	32.55	123.72	3.81	0.500	0.033	6.51	0.12372
5.77	0.48	31.59	123.45	3.81	0.480	0.032	6.58	0.12345
5.78	0.47	30.03	123.36	3.81	0.470	0.030	6.39	0.12336
5.79	0.47	28.37	123.27	3.81	0.470	0.028	6.04	0.12327
5.8	0.47	26.91	123.18	3.81	0.470	0.027	5.73	0.12318
5.81	0.69	16.18	112.45	3.76	0.690	0.016	2.34	0.11245
5.82	0.69	16.18	112.45	3.76	0.690	0.016	2.34	0.11245
5.83	0.69	16.18	112.45	3.76	0.690	0.016	2.34	0.11245
5.84	0.69	19.14	114.71	3.76	0.690	0.019	2.77	0.11471
5.85	0.7	19.43	115.34	3.76	0.700	0.019	2.78	0.11534
5.86	0.71	19.84	116.06	3.76	0.710	0.020	2.79	0.11606
5.87	0.71	20.22	116.6	3.76	0.710	0.020	2.85	0.1166
5.88	0.72	20.8	117.23	3.76	0.720	0.021	2.89	0.11723
5.89	0.71	21.56	117.59	3.76	0.710	0.022	3.04	0.11759
5.9	0.7	22.01	117.77	3.76	0.700	0.022	3.14	0.11777
5.91	0.71	22.29	118.13	3.76	0.710	0.022	3.14	0.11813
5.92	0.73	22.64	118.94	3.76	0.730	0.023	3.10	0.11894
5.93	0.74	23.47	119.84	3.76	0.740	0.023	3.17	0.11984
5.94	0.73	24.04	120.2	3.76	0.730	0.024	3.29	0.1202
5.95	0.73	24.23	120.83	3.76	0.730	0.024	3.32	0.12083
5.96	0.73	24.33	121.46	3.76	0.730	0.024	3.33	0.12146
5.97	0.73	23.98	122	3.76	0.730	0.024	3.28	0.122
5.98	0.74	23.92	122.27	3.76	0.740	0.024	3.23	0.12227
5.99	0.75	24.01	122.45	3.76	0.750	0.024	3.20	0.12245
6	0.75	24.17	122.54	3.76	0.750	0.024	3.22	0.12254
6.01	0.75	24.17	122.54	3.76	0.750	0.024	3.22	0.12254
6.02	0.76	24.52	122.81	3.76	0.760	0.025	3.23	0.12281
6.03	0.78	24.71	123	3.71	0.780	0.025	3.17	0.123
6.04	0.8	25.03	123	3.71	0.800	0.025	3.13	0.123
6.05	0.82	25.41	123.27	3.71	0.820	0.025	3.10	0.12327
6.06	0.83	26.75	124.17	3.71	0.830	0.027	3.22	0.12417
6.07	0.82	28.12	125.25	3.71	0.820	0.028	3.43	0.12525
6.08	0.82	29.74	125.34	3.71	0.820	0.030	3.63	0.12534
6.09	0.84	30.06	125.43	3.71	0.840	0.030	3.58	0.12543
6.1	0.87	30.51	125.52	3.71	0.870	0.031	3.51	0.12552
6.11	0.88	32.04	125.7	3.71	0.880	0.032	3.64	0.1257
6.12	0.89	34.27	126.06	3.71	0.890	0.034	3.85	0.12606
6.13	0.89	36.11	126.15	3.71	0.890	0.036	4.06	0.12615
6.14	0.9	37.67	126.51	3.71	0.900	0.038	4.19	0.12651
6.15	0.9	39.71	126.6	3.71	0.900	0.040	4.41	0.1266
6.16	0.9	41.69	126.51	3.71	0.900	0.042	4.63	0.12651
6.17	0.9	43.28	126.51	3.71	0.900	0.043	4.81	0.12651
6.18	0.91	44.33	126.33	3.71	0.910	0.044	4.87	0.12633
6.19	0.91	45.22	126.24	3.71	0.910	0.045	4.97	0.12624
6.2	0.9	46.15	126.24	3.71	0.900	0.046	5.13	0.12624
6.21	0.91	47.07	126.24	3.71	0.910	0.047	5.17	0.12624
6.22	0.92	48.31	126.33	3.71	0.920	0.048	5.25	0.12633
6.23	0.93	49.46	126.51	3.71	0.930	0.049	5.32	0.12651
6.24	0.94	50.7	126.51	3.71	0.940	0.051	5.39	0.12651
6.25	0.94	51.69	126.6	3.71	0.940	0.052	5.50	0.1266
6.26	0.95	52.51	126.69	3.71	0.950	0.053	5.53	0.12669
6.27	0.96	53.5	126.87	3.66	0.960	0.054	5.57	0.12687

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.28	0.98	54.46	127.14	3.66	0.980	0.054	5.56	0.12714
6.29	0.98	55.73	127.32	3.66	0.980	0.056	5.69	0.12732
6.3	1	57.07	127.41	3.66	1.000	0.057	5.71	0.12741
6.31	1.01	58.63	127.77	3.66	1.010	0.059	5.80	0.12777
6.32	1.01	60.35	128.13	3.66	1.010	0.060	5.98	0.12813
6.33	1.02	61.72	128.4	3.66	1.020	0.062	6.05	0.1284
6.34	1.02	63.12	128.58	3.66	1.020	0.063	6.19	0.12858
6.35	1.02	64.2	128.67	3.66	1.020	0.064	6.29	0.12867
6.36	1.02	65.16	128.85	3.66	1.020	0.065	6.39	0.12885
6.37	1.03	65.7	128.85	3.66	1.030	0.066	6.38	0.12885
6.38	1.02	66.4	128.85	3.66	1.020	0.066	6.51	0.12885
6.39	1.02	67.07	128.85	3.66	1.020	0.067	6.58	0.12885
6.4	1.02	67.39	128.76	3.66	1.020	0.067	6.61	0.12876
6.41	1.02	67.8	128.67	3.66	1.020	0.068	6.65	0.12867
6.42	1.01	67.58	128.49	3.66	1.010	0.068	6.69	0.12849
6.43	1.02	66.97	128.31	3.66	1.020	0.067	6.57	0.12831
6.44	1.03	66.65	128.31	3.66	1.030	0.067	6.47	0.12831
6.45	1.02	66.69	128.67	3.66	1.020	0.067	6.54	0.12867
6.46	1.02	66.27	129.3	3.66	1.020	0.066	6.50	0.1293
6.47	1.02	66.27	129.3	3.66	1.020	0.066	6.50	0.1293
6.48	1.01	65.16	129.3	3.66	1.010	0.065	6.45	0.1293
6.49	1.02	63.06	129.57	3.66	1.020	0.063	6.18	0.12957
6.5	1.03	61.14	129.39	3.66	1.030	0.061	5.94	0.12939
6.51	1.04	60.35	129.48	3.66	1.040	0.060	5.80	0.12948
6.52	1.04	59.3	129.39	3.66	1.040	0.059	5.70	0.12939
6.53	1.04	58.79	129.12	3.66	1.040	0.059	5.65	0.12912
6.54	1.04	58.25	129.12	3.66	1.040	0.058	5.60	0.12912
6.55	1.05	57.96	129.39	3.66	1.050	0.058	5.52	0.12939
6.56	1.05	57.74	129.39	3.66	1.050	0.058	5.50	0.12939
6.57	1.06	57.48	129.21	3.66	1.060	0.057	5.42	0.12921
6.58	1.06	57.67	129.39	3.62	1.060	0.058	5.44	0.12939
6.59	1.06	58.25	129.66	3.66	1.060	0.058	5.50	0.12966
6.6	1.06	58.57	130.29	3.62	1.060	0.059	5.53	0.13029
6.61	1.05	59.49	130.83	3.62	1.050	0.059	5.67	0.13083
6.62	1.04	59.84	131.38	3.62	1.040	0.060	5.75	0.13138
6.63	1.03	60	131.47	3.62	1.030	0.060	5.83	0.13147
6.64	1.02	59.87	132.01	3.62	1.020	0.060	5.87	0.13201
6.65	1.01	59.01	132.01	3.66	1.010	0.059	5.84	0.13201
6.66	1.01	58.18	131.74	3.62	1.010	0.058	5.76	0.13174
6.67	0.99	58.18	131.74	3.62	0.990	0.058	5.88	0.13174
6.68	0.95	58.15	131.28	3.62	0.950	0.058	6.12	0.13128
6.69	0.92	57.77	131.19	3.62	0.920	0.058	6.28	0.13119
6.7	0.91	57.1	130.92	3.62	0.910	0.057	6.27	0.13092
6.71	0.89	56.34	130.47	3.62	0.890	0.056	6.33	0.13047
6.72	0.88	55.7	130.2	3.62	0.880	0.056	6.33	0.1302
6.73	0.87	55.06	129.93	3.62	0.870	0.055	6.33	0.12993
6.74	0.85	55.06	129.84	3.62	0.850	0.055	6.48	0.12984
6.75	0.83	54.9	129.66	3.62	0.830	0.055	6.61	0.12966
6.76	0.82	54.07	129.48	3.62	0.820	0.054	6.59	0.12948
6.77	0.81	53.5	129.21	3.62	0.810	0.054	6.60	0.12921
6.78	0.8	53.18	129.12	3.62	0.800	0.053	6.65	0.12912
6.79	0.8	53.18	129.12	3.62	0.800	0.053	6.65	0.12912
6.8	0.8	53.18	129.12	3.62	0.800	0.053	6.65	0.12912
6.81	0.84	43.15	126.6	3.66	0.840	0.043	5.14	0.1266
6.82	0.82	42.93	127.5	3.66	0.820	0.043	5.24	0.1275
6.83	0.81	41.94	128.04	3.66	0.810	0.042	5.18	0.12804
6.84	0.81	40.38	128.67	3.62	0.810	0.040	4.99	0.12867

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
6.85	0.81	38.31	129.39	3.66	0.810	0.038	4.73	0.12939
6.86	0.81	36.43	130.11	3.66	0.810	0.036	4.50	0.13011
6.87	0.8	34.36	130.83	3.66	0.800	0.034	4.30	0.13083
6.88	0.81	32.77	132.1	3.66	0.810	0.033	4.05	0.1321
6.89	0.8	31.56	133.54	3.66	0.800	0.032	3.95	0.13354
6.9	0.8	30.83	135.25	3.72	0.800	0.031	3.85	0.13525
6.91	0.8	30.16	135.88	3.72	0.800	0.030	3.77	0.13588
6.92	0.79	29.97	136.33	3.72	0.790	0.030	3.79	0.13633
6.93	0.79	29.68	136.69	3.72	0.790	0.030	3.76	0.13669
6.94	0.78	29.23	136.87	3.66	0.780	0.029	3.75	0.13687
6.95	0.78	28.31	136.87	3.72	0.780	0.028	3.63	0.13687
6.96	0.79	27.42	137.14	3.72	0.790	0.027	3.47	0.13714
6.97	0.8	26.91	137.5	3.72	0.800	0.027	3.36	0.1375
6.98	0.81	26.59	138.22	3.72	0.810	0.027	3.28	0.13822
6.99	0.82	26.53	138.94	3.72	0.820	0.027	3.24	0.13894
7	0.82	26.69	139.94	3.72	0.820	0.027	3.25	0.13994
7.01	0.81	26.72	140.21	3.72	0.810	0.027	3.30	0.14021
7.02	0.82	26.59	140.48	3.72	0.820	0.027	3.24	0.14048
7.03	0.83	26.37	141.2	3.72	0.830	0.026	3.18	0.1412
7.04	0.85	26.21	142.1	3.72	0.850	0.026	3.08	0.1421
7.05	0.85	26.15	143.45	3.72	0.850	0.026	3.08	0.14345
7.06	0.86	26.4	144.8	3.68	0.860	0.026	3.07	0.1448
7.07	0.87	26.69	145.97	3.72	0.870	0.027	3.07	0.14597
7.08	0.87	27.01	147.14	3.72	0.870	0.027	3.10	0.14714
7.09	0.88	27.42	149.22	3.68	0.880	0.027	3.12	0.14922
7.1	0.89	27.64	151.2	3.68	0.890	0.028	3.11	0.1512
7.11	0.9	27.61	152.64	3.68	0.900	0.028	3.07	0.15264
7.12	0.92	27.52	153.45	3.68	0.920	0.028	2.99	0.15345
7.13	0.93	27.16	154.53	3.68	0.930	0.027	2.92	0.15453
7.14	0.96	27.16	155.79	3.68	0.960	0.027	2.83	0.15579
7.15	0.98	27.58	158.05	3.68	0.980	0.028	2.81	0.15805
7.16	0.99	28.57	158.68	3.68	0.990	0.029	2.89	0.15868
7.17	1.01	29.36	159.22	3.68	1.010	0.029	2.91	0.15922
7.18	1.01	29.36	159.22	3.68	1.010	0.029	2.91	0.15922
7.19	1.02	30.13	159.85	3.68	1.020	0.030	2.95	0.15985
7.2	1.04	31.05	160.57	3.68	1.040	0.031	2.99	0.16057
7.21	1.05	32.04	160.75	3.68	1.050	0.032	3.05	0.16075
7.22	1.05	33.47	161.11	3.68	1.050	0.033	3.19	0.16111
7.23	1.06	35.29	161.47	3.68	1.060	0.035	3.33	0.16147
7.24	1.07	36.46	161.92	3.68	1.070	0.036	3.41	0.16192
7.25	1.08	37.61	162.55	3.68	1.080	0.038	3.48	0.16255
7.26	1.08	39.33	162.91	3.68	1.080	0.039	3.64	0.16291
7.27	1.08	41.5	163.18	3.68	1.080	0.042	3.84	0.16318
7.28	1.09	42.96	163.18	3.68	1.090	0.043	3.94	0.16318
7.29	1.12	43.88	163	3.68	1.120	0.044	3.92	0.163
7.3	1.1	45.6	163.72	3.68	1.100	0.046	4.15	0.16372
7.31	1.1	47.39	163.99	3.68	1.100	0.047	4.31	0.16399
7.32	1.1	48.92	164.17	3.64	1.100	0.049	4.45	0.16417
7.33	1.1	49.9	164.53	3.68	1.100	0.050	4.54	0.16453
7.34	1.11	50.64	164.89	3.68	1.110	0.051	4.56	0.16489
7.35	1.12	50.83	164.71	3.64	1.120	0.051	4.54	0.16471
7.36	1.12	51.5	165.07	3.64	1.120	0.052	4.60	0.16507
7.37	1.13	52.42	165.26	3.64	1.130	0.052	4.64	0.16526
7.38	1.14	53.21	165.71	3.64	1.140	0.053	4.67	0.16571
7.39	1.14	54.33	166.07	3.64	1.140	0.054	4.77	0.16607
7.4	1.15	56.02	166.61	3.64	1.150	0.056	4.87	0.16661
7.41	1.16	57.58	167.24	3.64	1.160	0.058	4.96	0.16724

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.42	1.17	58.92	167.69	3.64	1.170	0.059	5.04	0.16769
7.43	1.2	58.72	168.32	3.64	1.200	0.059	4.89	0.16832
7.44	1.22	59.42	169.67	3.64	1.220	0.059	4.87	0.16967
7.45	1.26	59.78	170.66	3.64	1.260	0.060	4.74	0.17066
7.46	1.32	59.93	171.29	3.64	1.320	0.060	4.54	0.17129
7.47	1.38	60.28	172.37	3.64	1.380	0.060	4.37	0.17237
7.48	1.42	61.88	173.63	3.64	1.420	0.062	4.36	0.17363
7.49	1.46	63.18	174.18	3.64	1.460	0.063	4.33	0.17418
7.5	1.49	63.56	174.81	3.64	1.490	0.064	4.27	0.17481
7.51	1.52	64.2	174.9	3.64	1.520	0.064	4.22	0.1749
7.52	1.52	65.03	176.07	3.64	1.520	0.065	4.28	0.17607
7.53	1.5	66.97	173.91	3.64	1.500	0.067	4.46	0.17391
7.54	1.52	67.1	174.36	3.64	1.520	0.067	4.41	0.17436
7.55	1.56	68.28	174.09	3.64	1.560	0.068	4.38	0.17409
7.56	1.56	69.65	174	3.64	1.560	0.070	4.46	0.174
7.57	1.57	71.94	173.82	3.6	1.570	0.072	4.58	0.17382
7.58	1.58	74.93	173.27	3.6	1.580	0.075	4.74	0.17327
7.59	1.56	78.15	170.84	3.6	1.560	0.078	5.01	0.17084
7.6	1.52	81.78	165.35	3.64	1.520	0.082	5.38	0.16535
7.61	1.48	84.49	163.45	3.64	1.480	0.084	5.71	0.16345
7.62	1.46	85.95	162.19	3.6	1.460	0.086	5.89	0.16219
7.63	1.45	87.39	159.94	3.6	1.450	0.087	6.03	0.15994
7.64	1.46	88.25	159.13	3.6	1.460	0.088	6.04	0.15913
7.65	1.49	88.91	157.33	3.6	1.490	0.089	5.97	0.15733
7.66	1.51	90.51	156.79	3.64	1.510	0.091	5.99	0.15679
7.67	1.51	92.58	156.97	3.6	1.510	0.093	6.13	0.15697
7.68	1.51	95.35	157.51	3.6	1.510	0.095	6.31	0.15751
7.69	1.51	96.27	157.33	3.64	1.510	0.096	6.38	0.15733
7.7	1.49	96.37	156.51	3.6	1.490	0.096	6.47	0.15651
7.71	1.48	94.84	155.97	3.6	1.480	0.095	6.41	0.15597
7.72	1.47	93.56	155.79	3.6	1.470	0.094	6.36	0.15579
7.73	1.46	91.94	154.26	3.6	1.460	0.092	6.30	0.15426
7.74	1.46	91.94	154.26	3.6	1.460	0.092	6.30	0.15426
7.75	1.46	91.94	154.26	3.6	1.460	0.092	6.30	0.15426
7.76	1.52	89.2	135.34	3.6	1.520	0.089	5.87	0.13534
7.77	1.5	89.9	134.8	3.6	1.500	0.090	5.99	0.1348
7.78	1.47	91.11	131.1	3.6	1.470	0.091	6.20	0.1311
7.79	1.45	92.26	129.84	3.6	1.450	0.092	6.36	0.12984
7.8	1.4	93.53	123.9	3.6	1.400	0.094	6.68	0.1239
7.81	1.36	94.26	118.94	3.6	1.360	0.094	6.93	0.11894
7.82	1.33	95.06	116.87	3.6	1.330	0.095	7.15	0.11687
7.83	1.3	96.21	114.89	3.6	1.300	0.096	7.40	0.11489
7.84	1.28	95.98	114.16	3.6	1.280	0.096	7.50	0.11416
7.85	1.27	96.05	114.25	3.6	1.270	0.096	7.56	0.11425
7.86	1.25	96.33	113.26	3.6	1.250	0.096	7.71	0.11326
7.87	1.21	96.56	112.63	3.6	1.210	0.097	7.98	0.11263
7.88	1.21	96.56	112.63	3.6	1.210	0.097	7.98	0.11263
7.89	1.18	95.51	112.54	3.6	1.180	0.096	8.09	0.11254
7.9	1.15	93.53	114.07	3.6	1.150	0.094	8.13	0.11407
7.91	1.13	86.94	116.51	3.6	1.130	0.087	7.69	0.11651
7.92	1.06	83.25	115.7	3.6	1.060	0.083	7.85	0.1157
7.93	1.01	79.74	115.79	3.6	1.010	0.080	7.90	0.11579
7.94	0.97	75.19	116.6	3.6	0.970	0.075	7.75	0.1166
7.95	0.92	70.09	117.5	3.67	0.920	0.070	7.62	0.1175
7.96	0.91	64.2	118.4	3.67	0.910	0.064	7.05	0.1184
7.97	0.9	59.71	119.57	3.6	0.900	0.060	6.63	0.11957
7.98	0.89	55.06	121.19	3.67	0.890	0.055	6.19	0.12119

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
7.99	0.89	50.57	123.27	3.67	0.890	0.051	5.68	0.12327
8	0.9	46.21	134.89	3.67	0.900	0.046	5.13	0.13489
8.01	0.91	42.16	157.96	3.67	0.910	0.042	4.63	0.15796
8.02	0.92	38.37	185.98	3.67	0.920	0.038	4.17	0.18598
8.03	0.96	34.74	209.5	3.67	0.960	0.035	3.62	0.2095
8.04	1.02	31.81	213.91	3.67	1.020	0.032	3.12	0.21391
8.05	1.1	29.11	215.26	3.67	1.100	0.029	2.65	0.21526
8.06	1.13	27.45	214.63	3.67	1.130	0.027	2.43	0.21463
8.07	1.2	24.94	215.71	3.67	1.200	0.025	2.08	0.21571
8.08	1.34	23.85	218.15	3.67	1.340	0.024	1.78	0.21815
8.09	1.49	23.63	222.11	3.67	1.490	0.024	1.59	0.22211
8.1	1.7	24.3	225.99	3.67	1.700	0.024	1.43	0.22599
8.11	1.92	25.38	229.77	3.67	1.920	0.025	1.32	0.22977
8.12	2.18	26.94	232.2	3.67	2.180	0.027	1.24	0.2322
8.13	2.44	29.94	226.53	3.67	2.440	0.030	1.23	0.22653
8.14	2.64	33.85	161.83	3.67	2.640	0.034	1.28	0.16183
8.15	2.78	37.61	98.04	3.67	2.780	0.038	1.35	0.09804
8.16	2.87	42.26	71.99	3.67	2.870	0.042	1.47	0.07199
8.17	2.9	46.34	55.78	3.73	2.900	0.046	1.60	0.05578
8.18	2.89	49.07	42.17	3.73	2.890	0.049	1.70	0.04217
8.19	2.82	50.48	32.17	3.73	2.820	0.050	1.79	0.03217
8.2	2.72	51.3	24.24	3.73	2.720	0.051	1.89	0.02424
8.21	2.58	51.14	17.39	3.73	2.580	0.051	1.98	0.01739
8.22	2.38	50.79	11.71	3.73	2.380	0.051	2.13	0.01171
8.23	2.16	50.25	7.03	3.73	2.160	0.050	2.33	0.00703
8.24	1.95	45.99	3.96	3.73	1.950	0.046	2.36	0.00396
8.25	1.85	41.94	2.52	3.73	1.850	0.042	2.27	0.00252
8.26	1.79	39.11	1.62	3.73	1.790	0.039	2.18	0.00162
8.27	1.76	36.72	2.97	3.77	1.760	0.037	2.09	0.00297
8.28	1.73	36.4	4.05	3.73	1.730	0.036	2.10	0.00405
8.29	1.72	38.98	4.96	3.77	1.720	0.039	2.27	0.00496
8.3	1.77	41.5	5.86	3.77	1.770	0.042	2.34	0.00586
8.31	1.92	42.1	6.67	3.77	1.920	0.042	2.19	0.00667
8.32	2.16	44.14	7.21	3.77	2.160	0.044	2.04	0.00721
8.33	2.37	46.34	7.66	3.77	2.370	0.046	1.96	0.00766
8.34	2.53	49.01	7.93	3.77	2.530	0.049	1.94	0.00793
8.35	2.66	52.36	8.02	3.83	2.660	0.052	1.97	0.00802
8.36	2.75	55.03	7.84	3.79	2.750	0.055	2.00	0.00784
8.37	2.82	54.93	6.76	3.79	2.820	0.055	1.95	0.00676
8.38	2.88	54.3	4.33	3.79	2.880	0.054	1.89	0.00433
8.39	2.93	55.38	3.06	3.79	2.930	0.055	1.89	0.00306
8.4	3.01	57.16	2.16	3.79	3.010	0.057	1.90	0.00216
8.41	3.02	58.12	1.08	3.79	3.020	0.058	1.92	0.00108
8.42	2.95	57.99	-0.36	3.79	2.950	0.058	1.97	-0.00036
8.43	2.95	57.99	-0.36	3.79	2.950	0.058	1.97	-0.00036
8.44	2.84	56.59	-2.43	3.79	2.840	0.057	1.99	-0.00243
8.45	2.72	53.76	-4.23	3.79	2.720	0.054	1.98	-0.00423
8.46	2.63	50	-5.41	3.79	2.630	0.050	1.90	-0.00541
8.47	2.51	51.88	-6.31	3.79	2.510	0.052	2.07	-0.00631
8.48	2.46	53.18	-6.76	3.79	2.460	0.053	2.16	-0.00676
8.49	2.46	56.27	-7.75	3.79	2.460	0.056	2.29	-0.00775
8.5	2.51	60.03	-8.92	3.79	2.510	0.060	2.39	-0.00892
8.51	2.48	61.72	-10.36	3.79	2.480	0.062	2.49	-0.01036
8.52	2.47	64.55	-11.98	3.79	2.470	0.065	2.61	-0.01198
8.53	2.55	66.05	-11.62	3.79	2.550	0.066	2.59	-0.01162
8.54	2.71	65.76	-11.44	3.79	2.710	0.066	2.43	-0.01144
8.55	2.9	65.25	-11.53	3.86	2.900	0.065	2.25	-0.01153

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
8.56	2.96	64.87	-11.8	3.86	2.960	0.065	2.19	-0.0118
8.57	3.02	65.09	-13.61	3.86	3.020	0.065	2.16	-0.01361
8.58	3.1	64.36	-15.05	3.86	3.100	0.064	2.08	-0.01505
8.59	3.19	62.8	-16.76	3.86	3.190	0.063	1.97	-0.01676
8.6	3.28	62.71	-17.84	3.86	3.280	0.063	1.91	-0.01784
8.61	3.36	61.49	-19.28	3.86	3.360	0.061	1.83	-0.01928
8.62	3.45	59.74	-20.63	3.86	3.450	0.060	1.73	-0.02063
8.63	3.53	58.95	-21.54	3.86	3.530	0.059	1.67	-0.02154
8.64	3.63	57.16	-22.17	3.86	3.630	0.057	1.57	-0.02217
8.65	3.68	54.93	-22.89	3.86	3.680	0.055	1.49	-0.02289
8.66	3.66	51.53	-23.97	3.86	3.660	0.052	1.41	-0.02397
8.67	3.59	50.09	-24.78	3.86	3.590	0.050	1.40	-0.02478
8.68	3.48	47.71	-25.23	3.86	3.480	0.048	1.37	-0.02523
8.69	3.25	46.85	-25.5	3.86	3.250	0.047	1.44	-0.0255
8.7	2.95	46.11	-25.41	3.86	2.950	0.046	1.56	-0.02541
8.71	2.72	41.4	-25.32	3.86	2.720	0.041	1.52	-0.02532
8.72	2.47	34.68	-25.32	3.86	2.470	0.035	1.40	-0.02532
8.73	2.31	30.09	-25.23	3.86	2.310	0.030	1.30	-0.02523
8.74	2.24	27.77	-25.14	3.86	2.240	0.028	1.24	-0.02514
8.75	2.19	28.63	-24.96	3.86	2.190	0.029	1.31	-0.02496
8.76	2.11	32.61	-24.78	3.86	2.110	0.033	1.55	-0.02478
8.77	1.98	38.06	-24.6	3.82	1.980	0.038	1.92	-0.0246
8.78	1.98	38.06	-24.6	3.82	1.980	0.038	1.92	-0.0246
8.79	1.98	38.06	-24.6	3.82	1.980	0.038	1.92	-0.0246
8.8	1.96	50.89	17.48	3.82	1.960	0.051	2.60	0.01748
8.81	1.89	53.85	18.74	3.82	1.890	0.054	2.85	0.01874
8.82	1.85	56.46	19.55	3.82	1.850	0.056	3.05	0.01955
8.83	1.81	57.93	20.27	3.82	1.810	0.058	3.20	0.02027
8.84	1.8	57.51	20.72	3.82	1.800	0.058	3.20	0.02072
8.85	1.78	57.58	21.27	3.82	1.780	0.058	3.23	0.02127
8.86	1.73	57.16	22.35	3.82	1.730	0.057	3.30	0.02235
8.87	1.76	55.13	23.16	3.82	1.760	0.055	3.13	0.02316
8.88	1.84	53.6	23.52	3.82	1.840	0.054	2.91	0.02352
8.89	2.01	54.52	23.97	3.82	2.010	0.055	2.71	0.02397
8.9	2.11	55.03	24.24	3.82	2.110	0.055	2.61	0.02424
8.91	2.17	53.92	24.42	3.82	2.170	0.054	2.48	0.02442
8.92	2.18	53.18	24.33	3.82	2.180	0.053	2.44	0.02433
8.93	2.2	53.63	24.24	3.89	2.200	0.054	2.44	0.02424
8.94	2.24	54.49	24.42	3.89	2.240	0.054	2.43	0.02442
8.95	2.3	55.48	24.6	3.89	2.300	0.055	2.41	0.0246
8.96	2.38	55.7	24.87	3.89	2.380	0.056	2.34	0.02487
8.97	2.49	57.96	25.41	3.92	2.490	0.058	2.33	0.02541
8.98	2.79	61.49	26.04	3.89	2.790	0.061	2.20	0.02604
8.99	3.13	61.21	26.4	3.92	3.130	0.061	1.96	0.0264
9	3.44	65.25	26.67	3.92	3.440	0.065	1.90	0.02667
9.01	3.63	68.66	26.67	3.89	3.630	0.069	1.89	0.02667
9.02	3.66	68.21	25.05	3.89	3.660	0.068	1.86	0.02505
9.03	3.68	64.23	17.48	3.92	3.680	0.064	1.75	0.01748
9.04	3.71	62.61	11.89	3.89	3.710	0.063	1.69	0.01189
9.05	3.74	59.2	7.57	3.89	3.740	0.059	1.58	0.00757
9.06	3.77	55.92	6.58	3.89	3.770	0.056	1.48	0.00658
9.07	3.86	50.64	7.03	3.89	3.860	0.051	1.31	0.00703
9.08	3.98	42.32	7.03	3.92	3.980	0.042	1.06	0.00703
9.09	4.13	37.51	7.3	3.92	4.130	0.038	0.91	0.0073
9.1	4.27	36.88	7.39	3.92	4.270	0.037	0.86	0.00739
9.11	4.34	38.95	2.34	3.92	4.340	0.039	0.90	0.00234
9.12	4.24	41.91	0.45	3.92	4.240	0.042	0.99	0.00045

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.13	4.01	45.38	-1.53	3.92	4.010	0.045	1.13	-0.00153
9.14	3.8	46.91	-3.78	3.92	3.800	0.047	1.23	-0.00378
9.15	3.68	49.17	-6.76	3.92	3.680	0.049	1.34	-0.00676
9.16	3.62	55.03	-25.23	3.92	3.620	0.055	1.52	-0.02523
9.17	3.59	62.2	-24.6	3.98	3.590	0.062	1.73	-0.0246
9.18	3.68	73.37	-24.06	3.98	3.680	0.073	1.99	-0.02406
9.19	3.75	82.23	-23.97	3.98	3.750	0.082	2.19	-0.02397
9.2	3.57	90.79	-23.43	3.98	3.570	0.091	2.54	-0.02343
9.21	3.41	96.62	-23.16	3.98	3.410	0.097	2.83	-0.02316
9.22	3.29	91.21	-23.16	3.98	3.290	0.091	2.77	-0.02316
9.23	3.14	82.7	-23.16	3.98	3.140	0.083	2.63	-0.02316
9.24	3.06	77.9	-23.07	3.98	3.060	0.078	2.55	-0.02307
9.25	3.1	76.78	-22.8	3.98	3.100	0.077	2.48	-0.0228
9.26	3.16	77.07	-22.62	3.98	3.160	0.077	2.44	-0.02262
9.27	3.11	82.23	-22.44	3.98	3.110	0.082	2.64	-0.02244
9.28	3.16	88.53	-22.17	3.98	3.160	0.089	2.80	-0.02217
9.29	3.29	90.92	-21.9	3.98	3.290	0.091	2.76	-0.0219
9.3	3.51	87.96	-21.81	3.98	3.510	0.088	2.51	-0.02181
9.31	3.71	89.61	-21.63	3.98	3.710	0.090	2.42	-0.02163
9.32	3.85	91.88	-21.45	3.98	3.850	0.092	2.39	-0.02145
9.33	3.99	92.64	-21.17	3.98	3.990	0.093	2.32	-0.02117
9.34	4.16	86.3	-20.9	3.98	4.160	0.086	2.07	-0.0209
9.35	4.39	81.59	-20.72	3.98	4.390	0.082	1.86	-0.02072
9.36	4.54	79.55	-20.54	3.98	4.540	0.080	1.75	-0.02054
9.37	4.63	79.39	-20.45	3.98	4.630	0.079	1.71	-0.02045
9.38	4.68	76.49	-20.36	3.98	4.680	0.076	1.63	-0.02036
9.39	4.67	73.85	-20.18	3.98	4.670	0.074	1.58	-0.02018
9.4	4.62	73.09	-20.18	3.98	4.620	0.073	1.58	-0.02018
9.41	4.49	72.2	-20.09	3.98	4.490	0.072	1.61	-0.02009
9.42	4.16	69.77	-20.18	3.98	4.160	0.070	1.68	-0.02018
9.43	3.74	63.34	-20.27	3.98	3.740	0.063	1.69	-0.02027
9.44	3.3	52.42	-20.45	3.98	3.300	0.052	1.59	-0.02045
9.45	2.89	41.53	-20.54	3.98	2.890	0.042	1.44	-0.02054
9.46	2.55	36.5	-20.63	3.98	2.550	0.037	1.43	-0.02063
9.47	2.28	35.51	-20.72	3.98	2.280	0.036	1.56	-0.02072
9.48	2.09	39.27	-20.63	3.98	2.090	0.039	1.88	-0.02063
9.49	1.95	44.08	-20.63	3.98	1.950	0.044	2.26	-0.02063
9.5	1.82	48.79	-20.54	3.98	1.820	0.049	2.68	-0.02054
9.51	1.74	50.86	-20.36	3.98	1.740	0.051	2.92	-0.02036
9.52	1.67	52.32	-19.82	3.98	1.670	0.052	3.13	-0.01982
9.53	1.6	52.45	-17.57	3.98	1.600	0.052	3.28	-0.01757
9.54	1.57	55.09	-15.86	4.05	1.570	0.055	3.51	-0.01586
9.55	1.53	54.43	-11.71	3.98	1.530	0.054	3.56	-0.01171
9.56	1.54	51.24	-0.18	4.05	1.540	0.051	3.33	-0.00018
9.57	1.56	46.08	10.63	3.98	1.560	0.046	2.95	0.01063
9.58	1.56	40.54	13.97	4.05	1.560	0.041	2.60	0.01397
9.59	1.53	38.44	14.33	4.05	1.530	0.038	2.51	0.01433
9.6	1.49	37.26	14.6	4.05	1.490	0.037	2.50	0.0146
9.61	3.65	53.34	19.64	4.05	3.650	0.053	1.46	0.01964
9.62	3.65	53.34	19.64	4.05	3.650	0.053	1.46	0.01964
9.63	3.65	53.34	19.64	4.05	3.650	0.053	1.46	0.01964
9.64	3.65	53.34	19.64	4.05	3.650	0.053	1.46	0.01964
9.65	3.65	53.34	19.64	4.05	3.650	0.053	1.46	0.01964
9.66	3.25	59.46	18.29	4.05	3.250	0.059	1.83	0.01829
9.67	3.28	60.86	18.29	4.05	3.280	0.061	1.86	0.01829
9.68	3.33	64.04	18.47	4.11	3.330	0.064	1.92	0.01847
9.69	3.43	67.58	18.92	4.08	3.430	0.068	1.97	0.01892

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
9.7	3.55	71.88	19.37	4.11	3.550	0.072	2.02	0.01937
9.71	3.63	74.07	19.55	4.05	3.630	0.074	2.04	0.01955
9.72	3.6	75.32	19.55	4.08	3.600	0.075	2.09	0.01955
9.73	3.45	73.63	19.28	4.01	3.450	0.074	2.13	0.01928
9.74	3.21	73.88	18.83	4.01	3.210	0.074	2.30	0.01883
9.75	3.03	71.49	18.56	4.01	3.030	0.071	2.36	0.01856
9.76	2.85	65.79	18.2	4.08	2.850	0.066	2.31	0.0182
9.77	2.68	61.18	18.2	4.08	2.680	0.061	2.28	0.0182
9.78	2.52	60.19	18.02	4.08	2.520	0.060	2.39	0.01802
9.79	2.3	62.74	17.93	4.08	2.300	0.063	2.73	0.01793
9.8	2.11	65.13	17.57	4.08	2.110	0.065	3.09	0.01757
9.81	1.95	62.16	17.03	4.08	1.950	0.062	3.19	0.01703
9.82	1.81	61.56	16.85	4.08	1.810	0.062	3.40	0.01685
9.83	1.69	61.21	16.67	4.08	1.690	0.061	3.62	0.01667
9.84	1.6	61.88	16.67	4.08	1.600	0.062	3.87	0.01667
9.85	1.62	62.61	17.3	4.08	1.620	0.063	3.86	0.0173
9.86	1.87	61.49	18.47	4.08	1.870	0.061	3.29	0.01847
9.87	2.29	58.63	20	4.08	2.290	0.059	2.56	0.02
9.88	2.77	57.29	21.17	4.08	2.770	0.057	2.07	0.02117
9.89	3.2	57.61	21.63	4.14	3.200	0.058	1.80	0.02163
9.9	3.57	58.02	21.72	4.14	3.570	0.058	1.63	0.02172
9.91	3.85	59.71	21.81	4.14	3.850	0.060	1.55	0.02181
9.92	4.01	61.97	21.81	4.14	4.010	0.062	1.55	0.02181
9.93	4.1	61.72	21.81	4.14	4.100	0.062	1.51	0.02181
9.94	4.14	60.54	21.99	4.14	4.140	0.061	1.46	0.02199
9.95	4.05	59.49	21.99	4.14	4.050	0.059	1.47	0.02199
9.96	3.75	57.16	21.63	4.14	3.750	0.057	1.52	0.02163
9.97	3.34	53.44	21.45	4.14	3.340	0.053	1.60	0.02145
9.98	2.96	48.92	21.08	4.14	2.960	0.049	1.65	0.02108
9.99	2.64	45.38	20.72	4.14	2.640	0.045	1.72	0.02072
10	2.38	46.11	20.54	4.14	2.380	0.046	1.94	0.02054
10.01	2.23	52.74	20.36	4.14	2.230	0.053	2.37	0.02036
10.02	2.01	60.54	20.18	4.14	2.010	0.061	3.01	0.02018
10.03	1.86	65.92	20.09	4.14	1.860	0.066	3.54	0.02009
10.04	1.74	69.04	20.09	4.14	1.740	0.069	3.97	0.02009
10.05	1.68	71.37	20.45	4.14	1.680	0.071	4.25	0.02045
10.06	1.67	70.89	21.45	4.14	1.670	0.071	4.24	0.02145
10.07	1.69	68.63	27.75	4.14	1.690	0.069	4.06	0.02775
10.08	1.68	63.92	30.19	4.14	1.680	0.064	3.80	0.03019
10.09	1.71	60.13	31.09	4.14	1.710	0.060	3.52	0.03109
10.1	1.79	57.23	31.63	4.14	1.790	0.057	3.20	0.03163
10.11	1.85	53.69	31.99	4.14	1.850	0.054	2.90	0.03199
10.12	1.92	50.44	32.26	4.14	1.920	0.050	2.63	0.03226
10.13	1.95	48.09	32.35	4.14	1.950	0.048	2.47	0.03235
10.14	1.92	45.29	32.17	4.14	1.920	0.045	2.36	0.03217
10.15	1.85	41.27	31.99	4.14	1.850	0.041	2.23	0.03199
10.16	1.74	36.3	31.9	4.14	1.740	0.036	2.09	0.0319
10.17	1.63	32.8	31.99	4.14	1.630	0.033	2.01	0.03199
10.18	1.54	30.25	32.17	4.14	1.540	0.030	1.96	0.03217
10.19	1.5	29.68	32.53	4.14	1.500	0.030	1.98	0.03253
10.2	1.48	29.52	32.71	4.14	1.480	0.030	1.99	0.03271
10.21	1.46	28.63	32.8	4.14	1.460	0.029	1.96	0.0328
10.22	1.48	25.89	32.98	4.14	1.480	0.026	1.75	0.03298
10.23	1.52	25.8	33.52	4.14	1.520	0.026	1.70	0.03352
10.24	1.56	26.72	34.24	4.14	1.560	0.027	1.71	0.03424
10.25	1.7	28.47	35.23	4.14	1.700	0.028	1.67	0.03523
10.26	1.88	30.86	36.31	4.14	1.880	0.031	1.64	0.03631

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.27	1.99	30.92	36.67	4.14	1.990	0.031	1.55	0.03667
10.28	2.06	29.94	36.67	4.14	2.060	0.030	1.45	0.03667
10.29	2.01	30.57	36.49	4.14	2.010	0.031	1.52	0.03649
10.3	1.94	30.44	36.4	4.14	1.940	0.030	1.57	0.0364
10.31	1.88	31.56	36.31	4.14	1.880	0.032	1.68	0.03631
10.32	1.85	32.42	36.85	4.14	1.850	0.032	1.75	0.03685
10.33	1.94	35	37.84	4.14	1.940	0.035	1.80	0.03784
10.34	1.98	36.75	38.57	4.14	1.980	0.037	1.86	0.03857
10.35	2.01	34.43	38.57	4.14	2.010	0.034	1.71	0.03857
10.36	2	33.44	38.48	4.14	2.000	0.033	1.67	0.03848
10.37	1.92	33.44	38.11	4.14	1.920	0.033	1.74	0.03811
10.38	1.82	32.58	37.93	4.14	1.820	0.033	1.79	0.03793
10.39	1.71	31.91	37.84	4.14	1.710	0.032	1.87	0.03784
10.4	1.59	32.51	38.48	4.14	1.590	0.033	2.04	0.03848
10.41	0.59	25.48	308.43	4.11	0.590	0.025	4.32	0.30843
10.42	0.59	25.48	308.43	4.11	0.590	0.025	4.32	0.30843
10.43	0.59	25.48	308.43	4.11	0.590	0.025	4.32	0.30843
10.44	1.34	49.43	268.7	4.18	1.340	0.049	3.69	0.2687
10.45	1.3	48.76	269.24	4.18	1.300	0.049	3.75	0.26924
10.46	1.28	48.25	271.67	4.11	1.280	0.048	3.77	0.27167
10.47	1.27	45.79	276.09	4.11	1.270	0.046	3.61	0.27609
10.48	1.29	42.96	282.75	4.11	1.290	0.043	3.33	0.28275
10.49	1.37	40.89	290.23	4.11	1.370	0.041	2.98	0.29023
10.5	1.48	38.76	293.84	4.11	1.480	0.039	2.62	0.29384
10.51	1.54	37.01	292.76	4.11	1.540	0.037	2.40	0.29276
10.52	1.57	35.86	282.12	4.18	1.570	0.036	2.28	0.28212
10.53	1.54	35.86	268.79	4.11	1.540	0.036	2.33	0.26879
10.54	1.47	35.95	261.58	4.21	1.470	0.036	2.45	0.26158
10.55	1.37	34.97	259.87	4.18	1.370	0.035	2.55	0.25987
10.56	1.27	34.04	258.61	4.18	1.270	0.034	2.68	0.25861
10.57	1.18	33.57	260.32	4.18	1.180	0.034	2.84	0.26032
10.58	1.11	30.19	263.29	4.21	1.110	0.030	2.72	0.26329
10.59	1.08	25.99	266.26	4.18	1.080	0.026	2.41	0.26626
10.6	1.06	23.69	269.06	4.21	1.060	0.024	2.23	0.26906
10.61	1.05	22.8	272.39	4.21	1.050	0.023	2.17	0.27239
10.62	1.05	22.1	275.09	4.18	1.050	0.022	2.10	0.27509
10.63	1.04	22.42	277.26	4.11	1.040	0.022	2.16	0.27726
10.64	1.03	22.61	279.15	4.18	1.030	0.023	2.20	0.27915
10.65	1.03	23.15	280.41	4.18	1.030	0.023	2.25	0.28041
10.66	1.03	22.87	282.57	4.18	1.030	0.023	2.22	0.28257
10.67	1.04	22.36	286.54	4.18	1.040	0.022	2.15	0.28654
10.68	1.04	21.27	291.04	4.18	1.040	0.021	2.05	0.29104
10.69	1.04	19.78	296.72	4.18	1.040	0.020	1.90	0.29672
10.7	1.07	17.99	303.57	4.18	1.070	0.018	1.68	0.30357
10.71	1.11	16.5	309.06	4.18	1.110	0.017	1.49	0.30906
10.72	1.13	15.64	313.3	4.18	1.130	0.016	1.38	0.3133
10.73	1.15	15.57	316.27	4.18	1.150	0.016	1.35	0.31627
10.74	1.18	16.02	318.71	4.18	1.180	0.016	1.36	0.31871
10.75	1.2	16.43	320.78	4.18	1.200	0.016	1.37	0.32078
10.76	1.21	17.01	322.58	4.18	1.210	0.017	1.41	0.32258
10.77	1.21	17.87	323.48	4.11	1.210	0.018	1.48	0.32348
10.78	1.21	18.98	323.66	4.18	1.210	0.019	1.57	0.32366
10.79	1.21	20.41	324.38	4.18	1.210	0.020	1.69	0.32438
10.8	1.22	21.72	325.82	4.11	1.220	0.022	1.78	0.32582
10.81	1.22	21.72	325.82	4.11	1.220	0.022	1.78	0.32582
10.82	1.24	24.08	329.34	4.18	1.240	0.024	1.94	0.32934
10.83	1.25	25.16	331.14	4.11	1.250	0.025	2.01	0.33114

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
10.84	1.26	26.27	332.4	4.18	1.260	0.026	2.08	0.3324
10.85	1.25	27.32	334.93	4.18	1.250	0.027	2.19	0.33493
10.86	1.25	27.77	335.92	4.11	1.250	0.028	2.22	0.33592
10.87	1.25	28.76	336.73	4.11	1.250	0.029	2.30	0.33673
10.88	1.24	29.62	337.18	4.11	1.240	0.030	2.39	0.33718
10.89	1.21	30.06	337.45	4.11	1.210	0.030	2.48	0.33745
10.9	1.2	30.13	337.72	4.11	1.200	0.030	2.51	0.33772
10.91	1.18	30.32	337.72	4.11	1.180	0.030	2.57	0.33772
10.92	1.18	30.38	336.82	4.11	1.180	0.030	2.57	0.33682
10.93	1.17	30.51	335.74	4.11	1.170	0.031	2.61	0.33574
10.94	1.16	30.99	334.84	4.11	1.160	0.031	2.67	0.33484
10.95	1.15	31.5	334.02	4.11	1.150	0.032	2.74	0.33402
10.96	1.13	32.23	333.12	4.11	1.130	0.032	2.85	0.33312
10.97	1.12	33.09	332.4	4.11	1.120	0.033	2.95	0.3324
10.98	1.11	33.41	331.32	4.11	1.110	0.033	3.01	0.33132
10.99	1.11	34.04	330.33	4.11	1.110	0.034	3.07	0.33033
11	1.11	34.78	330.78	4.11	1.110	0.035	3.13	0.33078
11.01	1.31	22.86	377.66	4.13	1.310	0.023	1.75	0.37766
11.02	1.58	24.48	377.3	4.13	1.580	0.024	1.55	0.3773
11.03	1.73	27.22	377.21	4.13	1.730	0.027	1.57	0.37721
11.04	1.69	26.94	377.21	4.13	1.690	0.027	1.59	0.37721
11.05	1.61	28.56	377.21	4.13	1.610	0.029	1.77	0.37721
11.06	1.54	26.87	377.12	4.13	1.540	0.027	1.74	0.37712
11.07	1.47	26.78	376.85	4.13	1.470	0.027	1.82	0.37685
11.08	1.41	27.86	376.67	4.13	1.410	0.028	1.98	0.37667
11.09	1.37	28.21	376.31	4.13	1.370	0.028	2.06	0.37631
11.1	1.35	26.78	376.04	4.13	1.350	0.027	1.98	0.37604
11.11	1.31	26.59	375.41	4.13	1.310	0.027	2.03	0.37541
11.12	1.3	26.39	374.95	4.13	1.300	0.026	2.03	0.37495
11.13	1.3	27.03	374.59	4.13	1.300	0.027	2.08	0.37459
11.14	1.27	26.62	374.23	4.13	1.270	0.027	2.10	0.37423
11.15	1.26	25.69	373.87	4.13	1.260	0.026	2.04	0.37387
11.16	1.27	24.68	373.51	4.13	1.270	0.025	1.94	0.37351
11.17	1.29	23.08	372.7	4.13	1.290	0.023	1.79	0.3727
11.18	1.3	22.99	372.16	4.13	1.300	0.023	1.77	0.37216
11.19	1.28	22.16	371.44	4.13	1.280	0.022	1.73	0.37144
11.2	1.25	22.1	370.44	4.13	1.250	0.022	1.77	0.37044
11.21	1.25	21.91	369.27	4.13	1.250	0.022	1.75	0.36927
11.22	1.24	21.75	366.74	4.13	1.240	0.022	1.75	0.36674
11.23	1.26	21.91	365.48	4.13	1.260	0.022	1.74	0.36548
11.24	1.32	23.21	364.04	4.13	1.320	0.023	1.76	0.36404
11.25	1.03	24.33	362.87	4.13	1.030	0.024	2.36	0.36287
11.26	1.05	25.25	361.69	4.13	1.050	0.025	2.40	0.36169
11.27	1.08	26.39	360.88	4.13	1.080	0.026	2.44	0.36088
11.28	1.06	29.2	351.05	4.13	1.060	0.029	2.75	0.35105
11.29	1.01	29.11	341.86	4.15	1.010	0.029	2.88	0.34186
11.3	1	29.33	339.07	4.15	1.000	0.029	2.93	0.33907
11.31	0.99	29.55	337.27	4.15	0.990	0.030	2.98	0.33727
11.32	1.03	29.74	337.81	4.15	1.030	0.030	2.89	0.33781
11.33	1.03	30.19	340.42	4.18	1.030	0.030	2.93	0.34042
11.34	1.05	30.73	343.03	4.15	1.050	0.031	2.93	0.34303
11.35	0.63	31.21	345.29	4.15	0.630	0.031	4.95	0.34529
11.36	0.86	31.62	348.35	4.15	0.860	0.032	3.68	0.34835
11.37	0.95	31.27	350.6	4.15	0.950	0.031	3.29	0.3506
11.38	0.87	30.7	352.32	4.15	0.870	0.031	3.53	0.35232
11.39	0.95	30.35	353.94	4.15	0.950	0.030	3.19	0.35394
11.4	1	30.03	355.47	4.15	1.000	0.030	3.00	0.35547

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.41	1	29.71	357.09	4.15	1.000	0.030	2.97	0.35709
11.42	0.52	0	188.14	4.18	0.520	0.000	0.00	0.18814
11.43	0.91	38.53	226.89	4.18	0.910	0.039	4.23	0.22689
11.44	1.2	39.14	224.64	4.18	1.200	0.039	3.26	0.22464
11.45	1.16	39.43	223.46	4.18	1.160	0.039	3.40	0.22346
11.46	1.1	40.25	222.38	4.18	1.100	0.040	3.66	0.22238
11.47	1.08	40.16	222.47	4.25	1.080	0.040	3.72	0.22247
11.48	1.05	39.81	224.27	4.18	1.050	0.040	3.79	0.22427
11.49	1.04	39.52	225.45	4.15	1.040	0.040	3.80	0.22545
11.5	1.02	39.46	228.15	4.22	1.020	0.039	3.87	0.22815
11.51	1.01	38.82	231.12	4.25	1.010	0.039	3.84	0.23112
11.52	1	37.77	233.01	4.25	1.000	0.038	3.78	0.23301
11.53	1	36.85	234.37	4.22	1.000	0.037	3.69	0.23437
11.54	0.99	35.19	236.44	4.22	0.990	0.035	3.55	0.23644
11.55	0.99	34.43	237.97	4.22	0.990	0.034	3.48	0.23797
11.56	0.98	33.31	240.58	4.22	0.980	0.033	3.40	0.24058
11.57	0.98	32.16	244.01	4.22	0.980	0.032	3.28	0.24401
11.58	0.97	30.6	246.35	4.22	0.970	0.031	3.15	0.24635
11.59	0.97	28.79	246.98	4.22	0.970	0.029	2.97	0.24698
11.6	0.95	26.91	246.62	4.22	0.950	0.027	2.83	0.24662
11.61	0.94	25.67	248.6	4.22	0.940	0.026	2.73	0.2486
11.62	0.94	24.71	250.77	4.22	0.940	0.025	2.63	0.25077
11.63	0.94	24.04	253.29	4.22	0.940	0.024	2.56	0.25329
11.64	0.93	23.31	258.15	4.22	0.930	0.023	2.51	0.25815
11.65	0.93	22.74	264.1	4.22	0.930	0.023	2.45	0.2641
11.66	0.94	22.36	269.87	4.22	0.940	0.022	2.38	0.26987
11.67	0.95	22.04	275.64	4.22	0.950	0.022	2.32	0.27564
11.68	0.95	22.01	279.33	4.22	0.950	0.022	2.32	0.27933
11.69	0.94	22.04	282.57	4.28	0.940	0.022	2.34	0.28257
11.7	0.96	22.16	282.03	4.28	0.960	0.022	2.31	0.28203
11.71	0.97	22.61	283.83	4.28	0.970	0.023	2.33	0.28383
11.72	0.95	22.71	282.39	4.28	0.950	0.023	2.39	0.28239
11.73	0.93	22.64	284.92	4.28	0.930	0.023	2.43	0.28492
11.74	0.93	22.71	296.45	4.28	0.930	0.023	2.44	0.29645
11.75	0.94	22.71	223.46	4.26	0.940	0.023	2.42	0.22346
11.76	0.92	22.58	441.88	4.28	0.920	0.023	2.45	0.44188
11.77	0.9	23.09	488.74	4.28	0.900	0.023	2.57	0.48874
11.78	0.89	23.18	506.76	4.26	0.890	0.023	2.60	0.50676
11.79	0.9	22.8	491.17	4.26	0.900	0.023	2.53	0.49117
11.8	0.9	22.64	478.19	4.26	0.900	0.023	2.52	0.47819
11.81	0.9	22.87	477.56	4.26	0.900	0.023	2.54	0.47756
11.82	0.9	23.12	484.77	4.32	0.900	0.023	2.57	0.48477
11.83	0.91	23.73	488.29	4.32	0.910	0.024	2.61	0.48829
11.84	0.91	24.01	488.74	4.26	0.910	0.024	2.64	0.48874
11.85	0.91	24.14	486.03	4.32	0.910	0.024	2.65	0.48603
11.86	0.92	24.3	486.3	4.32	0.920	0.024	2.64	0.4863
11.87	0.92	24.9	488.47	4.32	0.920	0.025	2.71	0.48847
11.88	0.91	25.54	490.81	4.32	0.910	0.026	2.81	0.49081
11.89	0.91	25.99	488.29	4.32	0.910	0.026	2.86	0.48829
11.9	0.91	26.02	489.1	4.32	0.910	0.026	2.86	0.4891
11.91	0.91	26.21	490.63	4.32	0.910	0.026	2.88	0.49063
11.92	0.92	26.56	489.46	4.32	0.920	0.027	2.89	0.48946
11.93	0.93	26.59	490.63	4.32	0.930	0.027	2.86	0.49063
11.94	0.93	26.3	493.6	4.32	0.930	0.026	2.83	0.4936
11.95	0.94	26.15	497.66	4.32	0.940	0.026	2.78	0.49766
11.96	0.94	26.05	503.6	4.32	0.940	0.026	2.77	0.5036
11.97	0.95	25.64	508.2	4.3	0.950	0.026	2.70	0.5082

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
11.98	0.96	25.13	510.63	4.32	0.960	0.025	2.62	0.51063
11.99	0.96	24.81	511.26	4.32	0.960	0.025	2.58	0.51126
12	0.96	24.71	511.44	4.3	0.960	0.025	2.57	0.51144
12.01	0.96	24.59	510.09	4.3	0.960	0.025	2.56	0.51009
12.02	0.96	24.36	507.48	4.3	0.960	0.024	2.54	0.50748
12.03	0.94	24.39	503.15	4.3	0.940	0.024	2.59	0.50315
12.04	0.93	24.23	499.01	4.3	0.930	0.024	2.61	0.49901
12.05	0.93	23.92	495.67	4.3	0.930	0.024	2.57	0.49567
12.06	0.93	23.95	497.66	4.3	0.930	0.024	2.58	0.49766
12.07	0.93	24.14	501.08	4.3	0.930	0.024	2.60	0.50108
12.08	0.93	24.14	504.14	4.3	0.930	0.024	2.60	0.50414
12.09	0.93	24.23	508.2	4.3	0.930	0.024	2.61	0.5082
12.1	0.93	24.49	505.5	4.3	0.930	0.024	2.63	0.5055
12.11	0.92	24.84	503.96	4.3	0.920	0.025	2.70	0.50396
12.12	0.92	24.94	501.53	4.3	0.920	0.025	2.71	0.50153
12.13	0.92	24.81	498.11	4.3	0.920	0.025	2.70	0.49811
12.14	0.91	25.06	493.87	4.3	0.910	0.025	2.75	0.49387
12.15	0.9	25.48	482.97	4.3	0.900	0.025	2.83	0.48297
12.16	0.89	25.67	475.58	4.3	0.890	0.026	2.88	0.47558
12.17	0.89	25.6	474.05	4.3	0.890	0.026	2.88	0.47405
12.18	0.89	25.7	474.05	4.3	0.890	0.026	2.89	0.47405
12.19	0.91	25.38	478.64	4.3	0.910	0.025	2.79	0.47864
12.2	0.88	25.67	455.94	4.3	0.880	0.026	2.92	0.45594
12.21	0.85	25.51	456.48	4.3	0.850	0.026	3.00	0.45648
12.22	0.85	25.7	441.43	4.3	0.850	0.026	3.02	0.44143
12.23	0.82	25.54	329.97	4.3	0.820	0.026	3.11	0.32997
12.24	0.8	25.25	449.99	4.3	0.800	0.025	3.16	0.44999
12.25	0.79	24.94	454.05	4.3	0.790	0.025	3.16	0.45405
12.26	0.79	24.36	455.4	4.3	0.790	0.024	3.08	0.4554
12.27	0.79	23.44	453.23	4.3	0.790	0.023	2.97	0.45323
12.28	0.79	22.93	452.15	4.3	0.790	0.023	2.90	0.45215
12.29	0.79	22.52	452.78	4.3	0.790	0.023	2.85	0.45278
12.3	0.8	22.23	451.79	4.3	0.800	0.022	2.78	0.45179
12.31	0.8	22.61	451.79	4.3	0.800	0.023	2.83	0.45179
12.32	0.79	23.06	459.54	4.3	0.790	0.023	2.92	0.45954
12.33	0.79	23.15	459.63	4.3	0.790	0.023	2.93	0.45963
12.34	0.79	23.15	458.73	4.3	0.790	0.023	2.93	0.45873
12.35	0.79	23.12	456.03	4.3	0.790	0.023	2.93	0.45603
12.36	0.79	23.5	454.23	4.3	0.790	0.024	2.97	0.45423
12.37	0.8	23.34	454.95	4.3	0.800	0.023	2.92	0.45495
12.38	0.8	23.53	457.11	4.3	0.800	0.024	2.94	0.45711
12.39	0.8	23.92	458.91	4.27	0.800	0.024	2.99	0.45891
12.4	0.81	23.79	457.92	4.3	0.810	0.024	2.94	0.45792
12.41	0.81	23.92	459	4.27	0.810	0.024	2.95	0.459
12.42	0.81	23.92	459	4.27	0.810	0.024	2.95	0.459
12.43	0.81	23.92	459	4.27	0.810	0.024	2.95	0.459
12.44	0.85	26.18	474.59	4.34	0.850	0.026	3.08	0.47459
12.45	0.85	26.34	479.46	4.34	0.850	0.026	3.10	0.47946
12.46	0.86	26.24	483.87	4.34	0.860	0.026	3.05	0.48387
12.47	0.87	26.11	490.81	4.34	0.870	0.026	3.00	0.49081
12.48	0.87	26.24	497.66	4.34	0.870	0.026	3.02	0.49766
12.49	0.87	26.4	500.54	4.34	0.870	0.026	3.03	0.50054
12.5	0.87	26.18	504.05	4.34	0.870	0.026	3.01	0.50405
12.51	0.87	25.95	503.33	4.34	0.870	0.026	2.98	0.50333
12.52	0.87	25.86	502.88	4.34	0.870	0.026	2.97	0.50288
12.53	0.88	25.57	499.82	4.34	0.880	0.026	2.91	0.49982
12.54	0.89	25.09	499.82	4.34	0.890	0.025	2.82	0.49982

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
12.55	0.91	25.19	496.49	4.34	0.910	0.025	2.77	0.49649
12.56	0.92	25.22	490.54	4.34	0.920	0.025	2.74	0.49054
12.57	0.94	25.13	490.9	4.34	0.940	0.025	2.67	0.4909
12.58	0.93	24.84	491.26	4.34	0.930	0.025	2.67	0.49126
12.59	0.92	24.59	477.38	4.34	0.920	0.025	2.67	0.47738
12.6	0.92	24.3	434.58	4.34	0.920	0.024	2.64	0.43458
12.61	0.92	25.03	360.52	4.34	0.920	0.025	2.72	0.36052
12.62	0.9	25.06	331.41	4.34	0.900	0.025	2.78	0.33141
12.63	0.9	26.11	403.68	4.34	0.900	0.026	2.90	0.40368
12.64	0.87	27.23	401.06	4.34	0.870	0.027	3.13	0.40106
12.65	0.86	27.55	380.7	4.34	0.860	0.028	3.20	0.3807
12.66	0.86	28.09	412.42	4.34	0.860	0.028	3.27	0.41242
12.67	0.87	28.44	424.31	4.34	0.870	0.028	3.27	0.42431
12.68	0.87	28.92	428.46	4.34	0.870	0.029	3.32	0.42846
12.69	0.88	29.08	432.96	4.34	0.880	0.029	3.30	0.43296
12.7	0.88	29.46	438.1	4.34	0.880	0.029	3.35	0.4381
12.71	0.89	29.46	440.35	4.34	0.890	0.029	3.31	0.44035
12.72	0.9	29.52	441.43	4.34	0.900	0.030	3.28	0.44143
12.73	0.91	29.9	440.08	4.34	0.910	0.030	3.29	0.44008
12.74	0.92	31.08	443.86	4.34	0.920	0.031	3.38	0.44386
12.75	0.94	31.02	449.09	4.34	0.940	0.031	3.30	0.44909
12.76	0.96	30.57	456.75	4.34	0.960	0.031	3.18	0.45675
12.77	0.97	30.44	463.87	4.34	0.970	0.030	3.14	0.46387
12.78	1	30.7	471.53	4.34	1.000	0.031	3.07	0.47153
12.79	1.03	31.08	479.82	4.34	1.030	0.031	3.02	0.47982
12.8	1.05	31.72	487.11	4.34	1.050	0.032	3.02	0.48711
12.81	1.06	32.29	494.32	4.34	1.060	0.032	3.05	0.49432
12.82	1.08	32.99	495.77	4.32	1.080	0.033	3.05	0.49577
12.83	1.09	33.37	494.59	4.32	1.090	0.033	3.06	0.49459
12.84	1.09	33.82	492.61	4.34	1.090	0.034	3.10	0.49261
12.85	1.1	34.3	496.04	4.32	1.100	0.034	3.12	0.49604
12.86	1.1	34.74	496.31	4.34	1.100	0.035	3.16	0.49631
12.87	1.09	34.81	494.14	4.34	1.090	0.035	3.19	0.49414
12.88	1.07	35.51	488.38	4.32	1.070	0.036	3.32	0.48838
12.89	1.04	35.7	481.98	4.32	1.040	0.036	3.43	0.48198
12.9	1.02	35.51	466.66	4.32	1.020	0.036	3.48	0.46666
12.91	1	35.03	458.1	4.32	1.000	0.035	3.50	0.4581
12.92	0.98	34.55	449.54	4.34	0.980	0.035	3.53	0.44954
12.93	0.97	33.98	442.33	4.32	0.970	0.034	3.50	0.44233
12.94	0.94	33.6	433.32	4.34	0.940	0.034	3.57	0.43332
12.95	0.92	33.79	431.88	4.32	0.920	0.034	3.67	0.43188
12.96	0.9	34.2	427.73	4.34	0.900	0.034	3.80	0.42773
12.97	0.88	34.2	423.68	4.34	0.880	0.034	3.89	0.42368
12.98	0.87	33.82	419.54	4.34	0.870	0.034	3.89	0.41954
12.99	0.85	33.79	415.66	4.34	0.850	0.034	3.98	0.41566
13	0.83	33.66	412.6	4.34	0.830	0.034	4.06	0.4126
13.01	0.83	32.8	410.79	4.34	0.830	0.033	3.95	0.41079
13.02	0.82	32.07	408.45	4.34	0.820	0.032	3.91	0.40845
13.03	0.82	31.88	409.35	4.32	0.820	0.032	3.89	0.40935
13.04	0.82	31.78	410.25	4.34	0.820	0.032	3.88	0.41025
13.05	0.81	31.5	410.34	4.32	0.810	0.032	3.89	0.41034
13.06	0.81	31.21	410.61	4.32	0.810	0.031	3.85	0.41061
13.07	0.81	30.83	410.07	4.32	0.810	0.031	3.81	0.41007
13.08	0.81	30.54	411.34	4.32	0.810	0.031	3.77	0.41134
13.09	0.81	29.9	414.31	4.32	0.810	0.030	3.69	0.41431
13.1	0.81	29.08	414.94	4.32	0.810	0.029	3.59	0.41494
13.11	0.81	28.57	415.48	4.32	0.810	0.029	3.53	0.41548

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.12	0.81	27.99	416.83	4.32	0.810	0.028	3.46	0.41683
13.13	0.8	27.32	416.38	4.32	0.800	0.027	3.42	0.41638
13.14	0.8	26.81	416.11	4.32	0.800	0.027	3.35	0.41611
13.15	0.81	26.46	415.66	4.32	0.810	0.026	3.27	0.41566
13.16	0.81	26.18	414.49	4.32	0.810	0.026	3.23	0.41449
13.17	0.82	26.02	414.58	4.32	0.820	0.026	3.17	0.41458
13.18	0.82	26.27	415.48	4.32	0.820	0.026	3.20	0.41548
13.19	0.83	26.56	418.27	4.32	0.830	0.027	3.20	0.41827
13.2	0.83	26.85	420.89	4.32	0.830	0.027	3.23	0.42089
13.21	0.83	27.32	422.42	4.32	0.830	0.027	3.29	0.42242
13.22	0.83	28.09	427.19	4.32	0.830	0.028	3.38	0.42719
13.23	0.83	28.92	430.17	4.32	0.830	0.029	3.48	0.43017
13.24	0.84	29.08	429	4.32	0.840	0.029	3.46	0.429
13.25	0.85	29.46	428.91	4.32	0.850	0.029	3.47	0.42891
13.26	0.85	30.09	429.09	4.32	0.850	0.030	3.54	0.42909
13.27	0.85	30.7	427.28	4.32	0.850	0.031	3.61	0.42728
13.28	0.86	31.21	425.48	4.32	0.860	0.031	3.63	0.42548
13.29	0.87	31.91	426.56	4.32	0.870	0.032	3.67	0.42656
13.3	0.88	32.32	429.18	4.32	0.880	0.032	3.67	0.42918
13.31	0.9	33.06	434.22	4.32	0.900	0.033	3.67	0.43422
13.32	0.9	33.79	437.02	4.32	0.900	0.034	3.75	0.43702
13.33	0.91	34.84	437.38	4.32	0.910	0.035	3.83	0.43738
13.34	0.92	35.29	436.29	4.32	0.920	0.035	3.84	0.43629
13.35	0.93	35.83	438.01	4.3	0.930	0.036	3.85	0.43801
13.36	0.93	36.4	439.27	4.32	0.930	0.036	3.91	0.43927
13.37	0.94	38.22	440.35	4.32	0.940	0.038	4.07	0.44035
13.38	0.96	39.55	441.61	4.3	0.960	0.040	4.12	0.44161
13.39	0.97	40.76	445.58	4.3	0.970	0.041	4.20	0.44558
13.4	0.98	41.97	446.75	4.3	0.980	0.042	4.28	0.44675
13.41	1	42.71	447.38	4.3	1.000	0.043	4.27	0.44738
13.42	1	42.71	447.38	4.3	1.000	0.043	4.27	0.44738
13.43	1	42.71	447.38	4.3	1.000	0.043	4.27	0.44738
13.44	1.02	49.27	442.69	4.3	1.020	0.049	4.83	0.44269
13.45	1.02	50.6	443.5	4.3	1.020	0.051	4.96	0.4435
13.46	1.02	51.94	445.04	4.3	1.020	0.052	5.09	0.44504
13.47	1.02	52.9	443.95	4.3	1.020	0.053	5.19	0.44395
13.48	1.03	53.6	446.48	4.3	1.030	0.054	5.20	0.44648
13.49	1.04	53.92	451.88	4.3	1.040	0.054	5.18	0.45188
13.5	1.06	54.07	452.51	4.3	1.060	0.054	5.10	0.45251
13.51	1.08	54.14	453.05	4.3	1.080	0.054	5.01	0.45305
13.52	1.09	54.68	456.57	4.3	1.090	0.055	5.02	0.45657
13.53	1.09	55.54	457.83	4.3	1.090	0.056	5.10	0.45783
13.54	1.09	57.32	460.71	4.3	1.090	0.057	5.26	0.46071
13.55	1.09	59.81	463.42	4.3	1.090	0.060	5.49	0.46342
13.56	1.09	60.57	465.04	4.3	1.090	0.061	5.56	0.46504
13.57	1.1	60.73	463.15	4.3	1.100	0.061	5.52	0.46315
13.58	1.1	61.37	463.06	4.3	1.100	0.061	5.58	0.46306
13.59	1.1	61.97	462.16	4.3	1.100	0.062	5.63	0.46216
13.6	1.1	61.91	459.9	4.3	1.100	0.062	5.63	0.4599
13.61	1.11	62.16	458.46	4.3	1.110	0.062	5.60	0.45846
13.62	1.11	62.35	457.29	4.37	1.110	0.062	5.62	0.45729
13.63	1.11	63.31	457.56	4.37	1.110	0.063	5.70	0.45756
13.64	1.11	64.42	459.9	4.3	1.110	0.064	5.80	0.4599
13.65	1.11	65.28	460.44	4.3	1.110	0.065	5.88	0.46044
13.66	1.11	65.95	462.25	4.37	1.110	0.066	5.94	0.46225
13.67	1.11	65.95	462.25	4.37	1.110	0.066	5.94	0.46225
13.68	1.11	66.02	456.3	4.37	1.110	0.066	5.95	0.4563

COMMITTENTE: TERNA	CANTIERE: Poggio Renatico	PROVA CPTU 05

Profondità	*qc*	*fs*	*u2*	*inclin.*	*qc*	*fs*	*fs/qc*	*u2*
m	MPa	KPa	KPa	°	MPa	MPa	%	
13.69	1.11	65.99	459.09	4.37	1.110	0.066	5.95	0.45909
13.7	1.1	66.02	460.08	4.3	1.100	0.066	6.00	0.46008
13.71	1.09	66.34	461.25	4.3	1.090	0.066	6.09	0.46125
13.72	1.08	66.62	461.16	4.3	1.080	0.067	6.17	0.46116
13.73	1.08	66.24	460.89	4.3	1.080	0.066	6.13	0.46089
13.74	1.09	66.11	463.33	4.3	1.090	0.066	6.07	0.46333
13.75	1.1	65.67	451.61	4.3	1.100	0.066	5.97	0.45161
13.76	1.09	65.76	446.21	4.3	1.090	0.066	6.03	0.44621
13.77	1.08	66.05	447.02	4.3	1.080	0.066	6.12	0.44702
13.78	1.07	66.08	452.15	4.3	1.070	0.066	6.18	0.45215
13.79	1.06	66.37	453.69	4.3	1.060	0.066	6.26	0.45369
13.8	1.06	66.37	455.67	4.3	1.060	0.066	6.26	0.45567
13.81	1.06	65.22	465.76	4.3	1.060	0.065	6.15	0.46576
13.82	1.07	64.84	471.98	4.3	1.070	0.065	6.06	0.47198
13.83	1.08	63.95	476.57	4.37	1.080	0.064	5.92	0.47657
13.84	1.09	62.9	479.82	4.3	1.090	0.063	5.77	0.47982
13.85	1.1	61.72	479.46	4.28	1.100	0.062	5.61	0.47946
13.86	1.11	61.08	469.99	4.3	1.110	0.061	5.50	0.46999
13.87	1.1	61.59	458.19	4.37	1.100	0.062	5.60	0.45819
13.88	1.09	62.71	454.5	4.35	1.090	0.063	5.75	0.4545
13.89	1.08	63.76	451.43	4.3	1.080	0.064	5.90	0.45143
13.9	1.07	64.2	452.6	4.35	1.070	0.064	6.00	0.4526
13.91	1.07	63.85	455.76	4.35	1.070	0.064	5.97	0.45576
13.92	1.08	62.99	459.99	4.35	1.080	0.063	5.83	0.45999
13.93	1.09	62.71	466.21	4.28	1.090	0.063	5.75	0.46621
13.94	1.09	62	470.81	4.35	1.090	0.062	5.69	0.47081
13.95	1.1	62.04	473.24	4.28	1.100	0.062	5.64	0.47324
13.96	1.09	62.23	474.14	4.28	1.090	0.062	5.71	0.47414
13.97	1.09	62.42	476.66	4.35	1.090	0.062	5.73	0.47666
13.98	1.09	62.74	476.21	4.35	1.090	0.063	5.76	0.47621
13.99	1.1	62.45	474.5	4.35	1.100	0.062	5.68	0.4745
14	1.12	61.81	476.57	4.35	1.120	0.062	5.52	0.47657
14.01	1.13	62.16	478.83	4.35	1.130	0.062	5.50	0.47883
14.02	1.13	62.64	483.33	4.35	1.130	0.063	5.54	0.48333
14.03	1.13	63.25	483.42	4.35	1.130	0.063	5.60	0.48342
14.04	1.14	63.69	487.66	4.35	1.140	0.064	5.59	0.48766
14.05	1.16	63.34	488.56	4.35	1.160	0.063	5.46	0.48856
14.06	1.18	62.99	490.36	4.35	1.180	0.063	5.34	0.49036
14.07	1.21	62.39	495.49	4.35	1.210	0.062	5.16	0.49549
14.08	1.25	61.72	508.38	4.35	1.250	0.062	4.94	0.50838
14.09	1.33	61.08	535.14	4.35	1.330	0.061	4.59	0.53514
14.1	1.37	60.44	510.18	4.35	1.370	0.060	4.41	0.51018
14.11	1.39	60	501.08	4.35	1.390	0.060	4.32	0.50108
14.12	1.41	60.03	497.57	4.35	1.410	0.060	4.26	0.49757
14.13	1.4	60.86	491.53	4.35	1.400	0.061	4.35	0.49153
14.14	1.36	61.46	464.86	4.35	1.360	0.061	4.52	0.46486
14.15	1.34	61.34	417.73	4.35	1.340	0.061	4.58	0.41773
14.16	1.37	59.71	337.36	4.35	1.370	0.060	4.36	0.33736
14.17	1.38	59.14	340.96	4.35	1.380	0.059	4.29	0.34096
14.18	1.39	57.48	346.73	4.35	1.390	0.057	4.14	0.34673
14.19	1.38	57.35	361.42	4.35	1.380	0.057	4.16	0.36142
14.2	1.39	57	372.5	4.35	1.390	0.057	4.10	0.3725
14.21	1.37	57.23	390.16	4.35	1.370	0.057	4.18	0.39016
14.22	1.36	56.56	398.81	4.35	1.360	0.057	4.16	0.39881
14.23	1.35	56.65	410.25	4.35	1.350	0.057	4.20	0.41025
14.24	1.33	56.97	416.29	4.35	1.330	0.057	4.28	0.41629
14.25	1.35	55.7	408.9	4.35	1.350	0.056	4.13	0.4089

PROVA PENETROMETRICA STATICA

secondo Raccomandazioni AGI (1977)

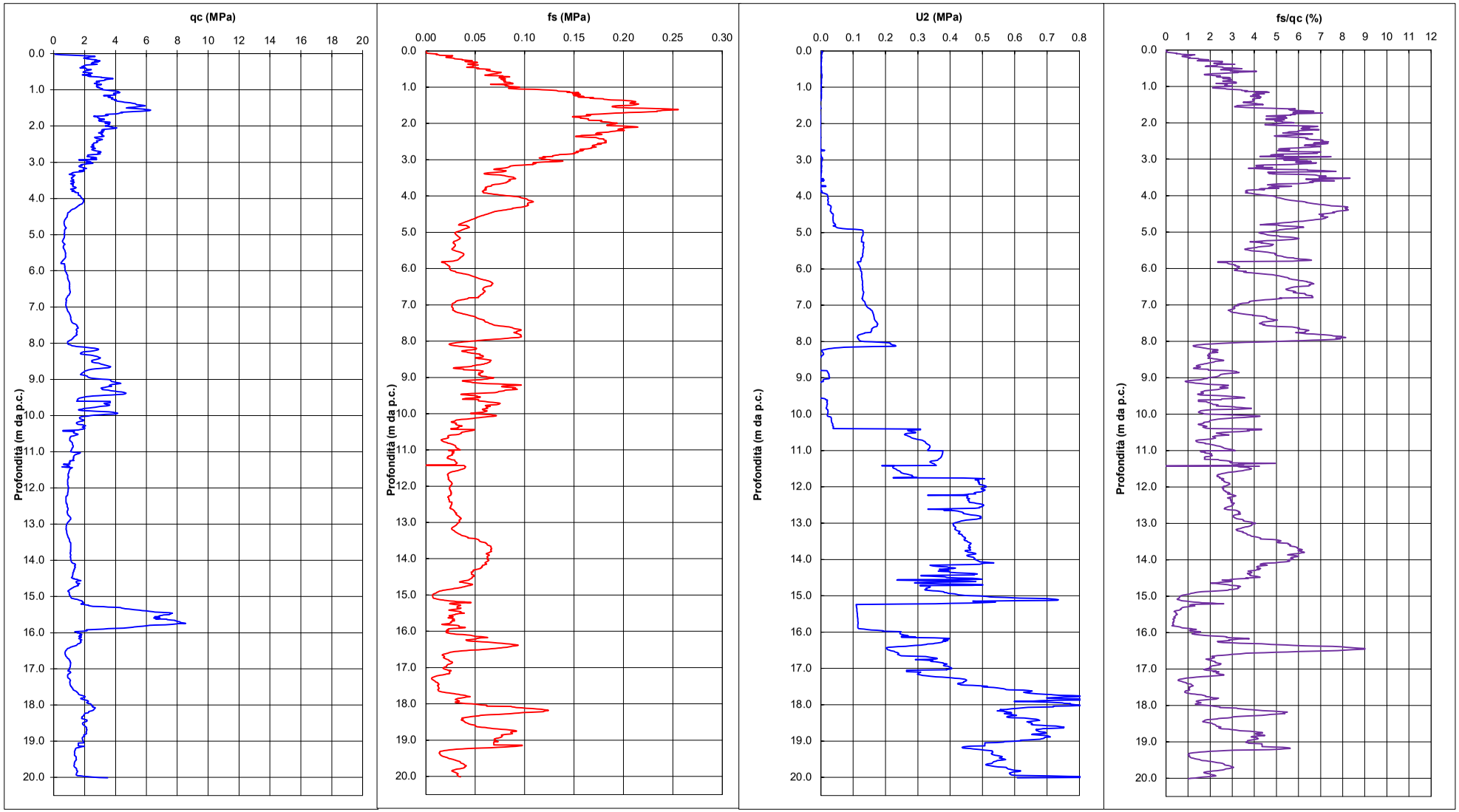
	Data giu-21		COMM. 000-20	PAG. 1	DI 1

Committente	**TERNA**				
Cantiere	**Poggio Renatico**				
N° Prova **CPTU 05**	Data prova **25/06/2021**	Operatore G.A.			

Punta N.	MKJ542	Quota p.c.:	0.00	m.s.l.m.	Coordinate **E**	0.00	**N** 0.00
Preforo	0.00 m	Livello H_2O	0.00	m da p.c.	Profondità finale	20.01 m da p.c.	

NOTE

COMMITTENTE: ERM - ENI



Allegato 2. – Rapporti di prova campioni rimaneggiati

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n. 2556	**del** 24/07/2021	**Accettazione n.** 2840	**del** 05/07/2021

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA				
COMMESSA:	-				
LOCALITA':	POGGIO RENATICO (FE)				
SONDAGGIO :	S01	CAMPIONE:	CR1 IN CLASSE Q3	PROFONDITA' :	5,50-6,00 m

ANALISI PER SETACCIATURA

Peso iniziale			322,57	*g*
Diametro massimo			35	*mm*
Diametro minimo			15	*mm*
Contenuto d'acqua			-	%
	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	96,00	%
Passante	19,0	3/4	96,00	%
Passante	9,5	3/8	92,34	%
Passante	4,75	No. 4	91,85	%
Passante	2,0	No. 10	91,23	%
Passante	0,850	No. 20	90,95	%
Passante	0,425	No. 40	90,64	%
Passante	0,254	No. 60	90,30	%
Passante	0,150	No. 100	89,96	%
Passante	0,075	No. 200	89,61	%

Ghiaia g	(19-75)	4,00	%
Ghiaia f	(4,75-19,0)	4,15	%
Sabbia g	(2-4,75)	0,62	%
Sabbia m	(0,425-2)	0,59	%
Sabbia f	(0,075-0,425)	1,02	%
Limo+argilla	(< 0,075)	89,61	%
Limo	(0,005-0,075)	19,16	%
Argilla	(< 0,005)	70,46	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*
Diametro	u.m.	*Percentuale*	
0,0512	*mm*	87,77	%
0,0367	*mm*	84,94	%
0,0262	*mm*	83,52	%
0,0186	*mm*	82,10	%
0,0132	*mm*	82,10	%
0,0096	*mm*	82,10	%
0,0069	*mm*	77,85	%
0,0051	*mm*	70,76	%
0,0037	*mm*	65,10	%
0,0026	*mm*	60,84	%
0,0019	*mm*	52,34	%
0,0014	*mm*	45,26	%
0,0012	*mm*	41,00	%

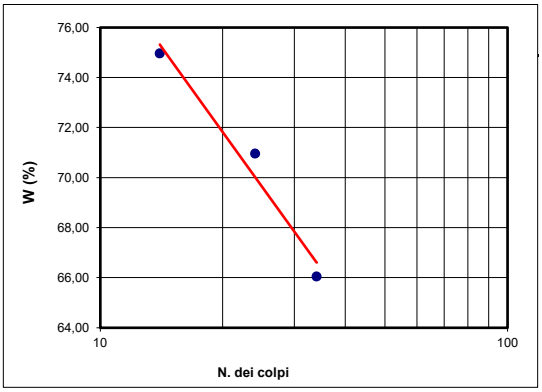
ASTM CLASSIFICATION
MH o OH
AASHTO M 145-82
-

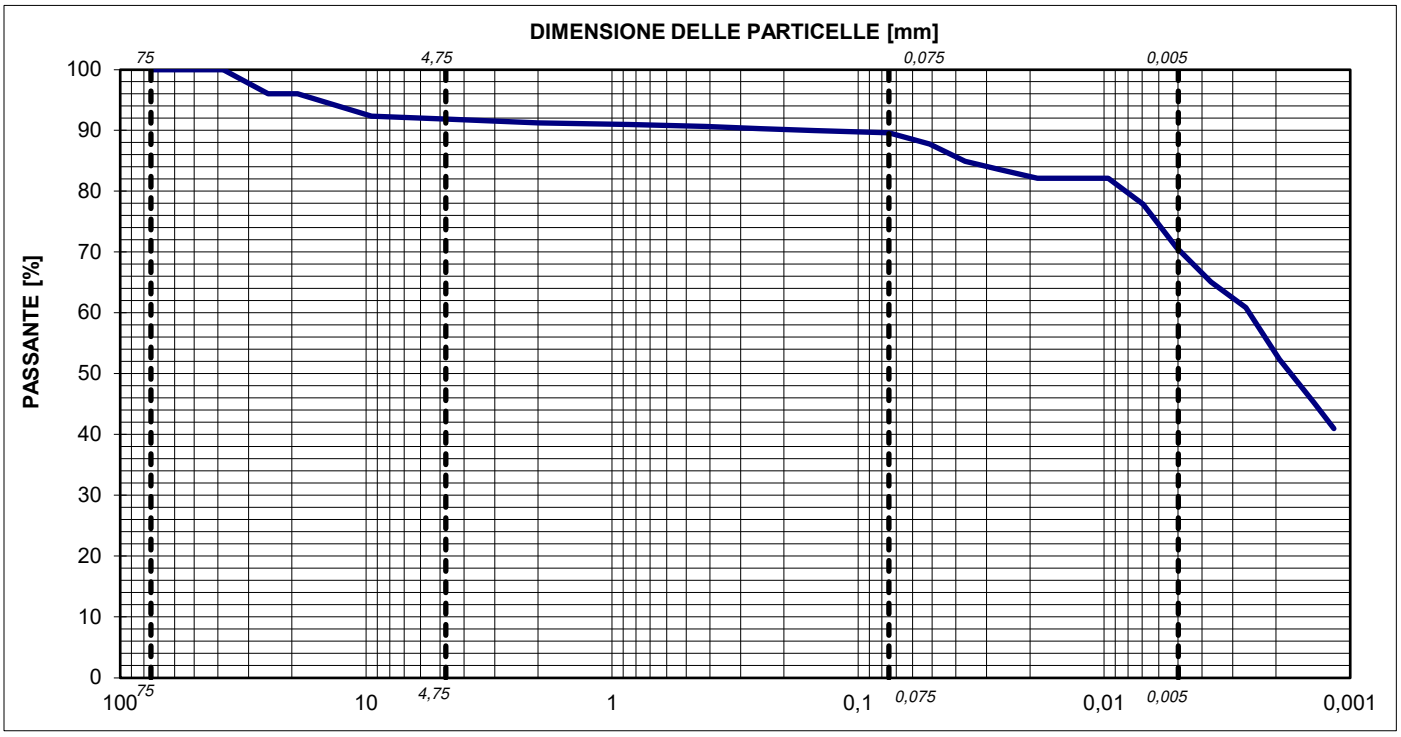
γ_s	-	*Mg/mc*
CU	-	-
CC	-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	70	%
Limite Plastico	(WP)	36	%
Indice di Plasticità	(IP)	34	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	23,08	43,48	34,74	74,96	14
LL	23,14	39,09	32,47	70,95	24
LL	23,00	41,58	34,19	66,04	34
LP	22,38	32,70	29,82	38,71	-
LP	23,05	32,33	29,96	34,30	-





Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO
Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281
E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n.	**2557**	**del**	**24/07/2021**	**Accettazione n.**	**2840**	**del**	**05/07/2021**

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA			
COMMESSA:	-			
LOCALITA':	POGGIO RENATICO (FE)			
SONDAGGIO :	S01	CAMPIONE:	CR2 IN CLASSE Q3	PROFONDITA' : 8,50-9,00 m

ANALISI PER SETACCIATURA

Peso iniziale		256,85	*g*
Diametro massimo		-	*mm*
Diametro minimo		-	*mm*
Contenuto d'acqua		-	%

	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	100,00	%
Passante	4,75	No. 4	100,00	%
Passante	2,0	No. 10	99,88	%
Passante	0,850	No. 20	99,65	%
Passante	0,425	No. 40	99,30	%
Passante	0,254	No. 60	98,95	%
Passante	0,150	No. 100	98,52	%
Passante	0,075	No. 200	88,98	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	0,00	%
Sabbia g	(2-4,75)	0,12	%
Sabbia m	(0,425-2)	0,58	%
Sabbia f	(0,075-0,425)	10,32	%
Limo+argilla	(< 0,075)	88,98	%
Limo	(0,005-0,075)	62,98	%
Argilla	(< 0,005)	26,00	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*

Diametro	u.m.	*Percentuale*	
0,0561	*mm*	76,76	%
0,0407	*mm*	71,13	%
0,0296	*mm*	65,50	%
0,0214	*mm*	59,87	%
0,0159	*mm*	48,62	%
0,0118	*mm*	42,99	%
0,0085	*mm*	37,36	%
0,0062	*mm*	28,92	%
0,0045	*mm*	24,69	%
0,0032	*mm*	21,60	%
0,0023	*mm*	16,25	%
0,0016	*mm*	10,62	%
0,0014	*mm*	7,81	%

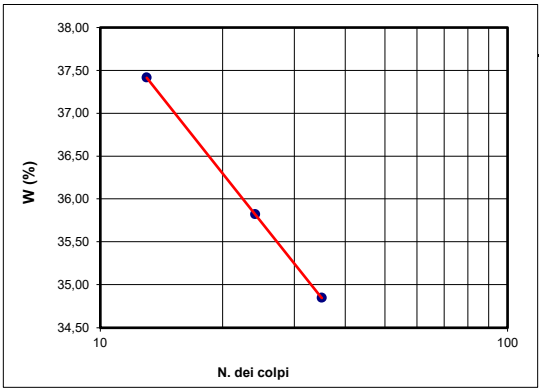
ASTM CLASSIFICATION
CL o OL
AASHTO M 145-82
-

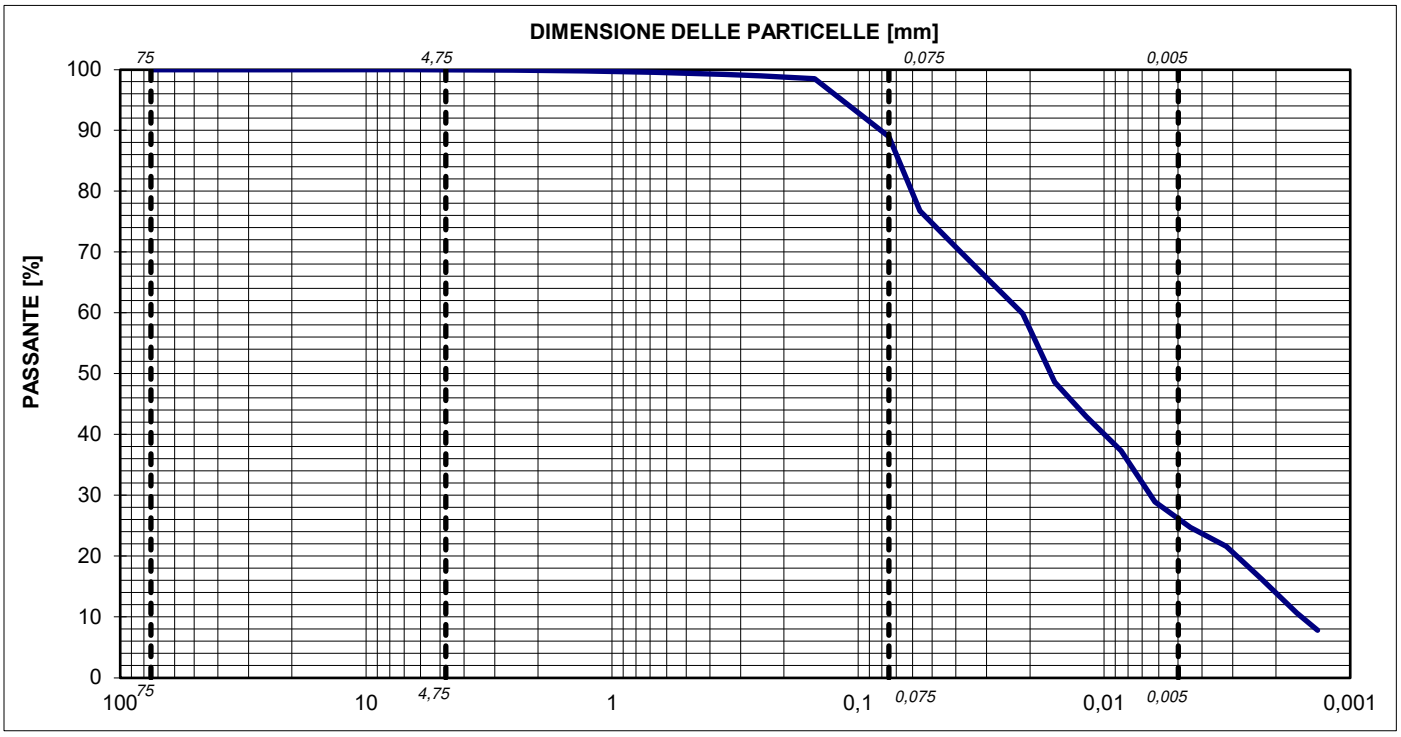
γ_s	-	*Mg/mc*
CU	-	-
CC	-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	35	%
Limite Plastico	(WP)	24	%
Indice di Plasticità	(IP)	11	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	23,05	41,78	36,68	37,42	13
LL	22,81	39,19	34,87	35,82	24
LL	23,02	43,22	38,00	34,85	35
LP	22,95	34,19	32,00	24,20	-
LP	23,28	32,50	30,69	24,43	-





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Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281
E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n.	**2558**	**del**	**24/07/2021**	**Accettazione n.**	**2840**	**del**	**05/07/2021**

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA			
COMMESSA:	-			
LOCALITA':	POGGIO RENATICO (FE)			
SONDAGGIO :	S02	CAMPIONE:	CR1 IN CLASSE Q3	PROFONDITA' : 9,50-10,00 m

ANALISI PER SETACCIATURA

Peso iniziale			202,36	*g*
Diametro massimo			-	*mm*
Diametro minimo			-	*mm*
Contenuto d'acqua			-	%
	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	100,00	%
Passante	4,75	No. 4	100,00	%
Passante	2,0	No. 10	99,95	%
Passante	0,850	No. 20	99,60	%
Passante	0,425	No. 40	98,81	%
Passante	0,254	No. 60	98,07	%
Passante	0,150	No. 100	97,48	%
Passante	0,075	No. 200	96,89	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	0,00	%
Sabbia g	(2-4,75)	0,05	%
Sabbia m	(0,425-2)	1,14	%
Sabbia f	(0,075-0,425)	1,93	%
Limo+argilla	(< 0,075)	96,89	%
Limo	(0,005-0,075)	64,27	%
Argilla	(< 0,005)	32,62	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*
Diametro	u.m.	*Percentuale*	
0,0557	*mm*	85,11	%
0,0397	*mm*	83,58	%
0,0284	*mm*	80,51	%
0,0205	*mm*	75,92	%
0,0151	*mm*	66,72	%
0,0115	*mm*	56,00	%
0,0084	*mm*	45,27	%
0,0061	*mm*	37,61	%
0,0044	*mm*	29,95	%
0,0032	*mm*	23,82	%
0,0023	*mm*	19,23	%
0,0016	*mm*	13,10	%
0,0014	*mm*	6,97	%

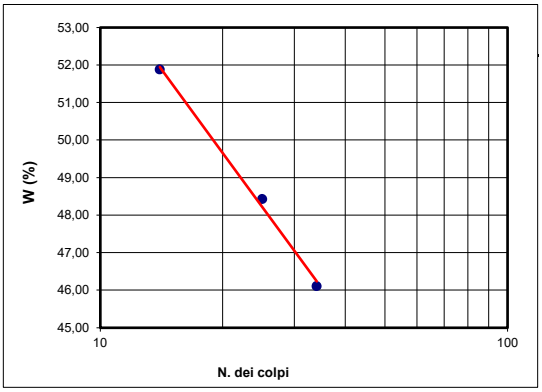
ASTM CLASSIFICATION
ML o OL
AASHTO M 145-82
-

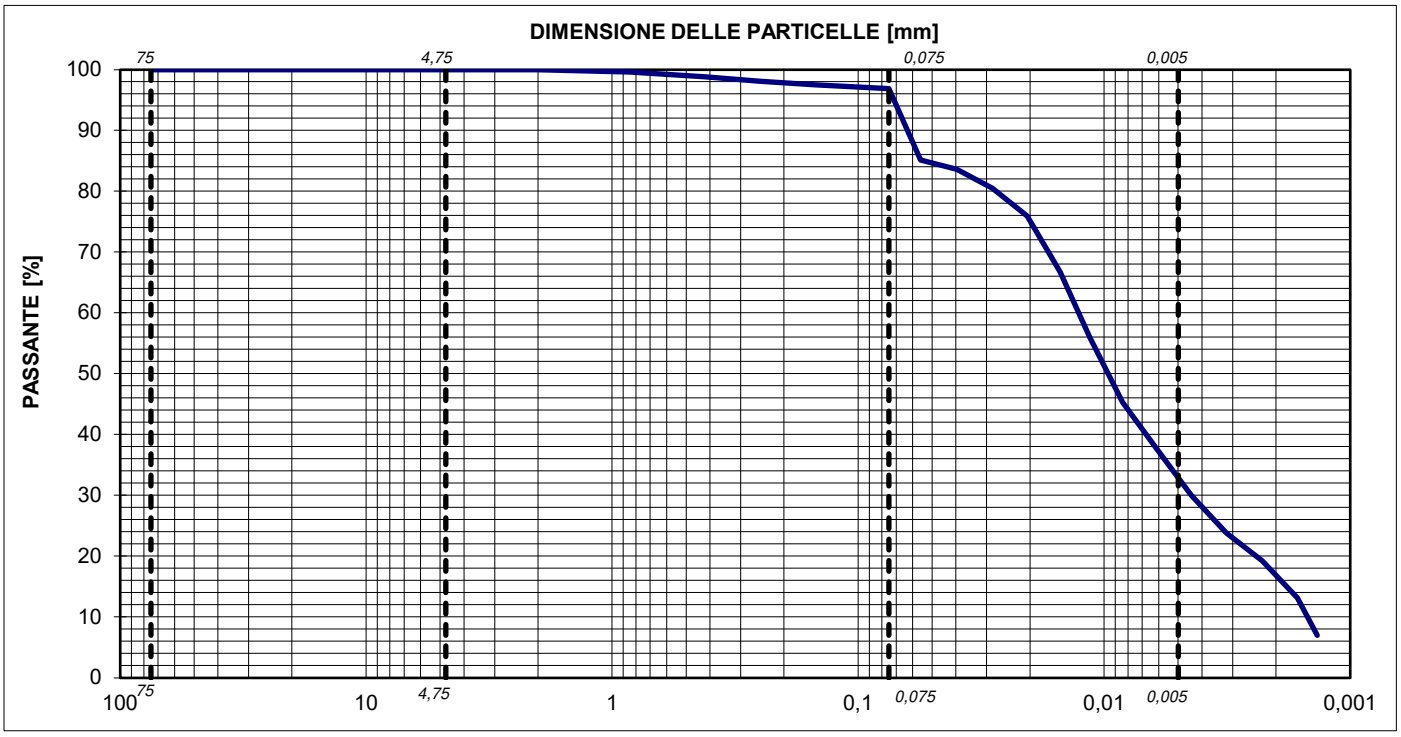
γ_s	-	*Mg/mc*	
CU	-	-	
CC	-	-	

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	48	%
Limite Plastico	(WP)	29	%
Indice di Plasticità	(IP)	19	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	22,24	41,65	35,02	51,88	14
LL	22,87	42,18	35,88	48,42	25
LL	22,37	39,99	34,43	46,10	34
LP	22,77	32,26	30,11	29,29	-
LP	22,34	31,37	29,29	29,93	-





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E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n. 2559	**del** 24/07/2021	**Accettazione n.** 2840	**del** 05/07/2021

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA				
COMMESSA:	-				
LOCALITA':	POGGIO RENATICO (FE)				
SONDAGGIO :	S02	CAMPIONE:	CR2 IN CLASSE Q3	PROFONDITA' :	15,50-16,00 m

ANALISI PER SETACCIATURA

Peso iniziale		189,2	*g*
Diametro massimo		20	*mm*
Diametro minimo		10	*mm*
Contenuto d'acqua		-	%

	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	96,35	%
Passante	4,75	No. 4	95,51	%
Passante	2,0	No. 10	94,98	%
Passante	0,850	No. 20	94,19	%
Passante	0,425	No. 40	93,39	%
Passante	0,254	No. 60	92,76	%
Passante	0,150	No. 100	91,44	%
Passante	0,075	No. 200	75,95	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	4,49	%
Sabbia g	(2-4,75)	0,53	%
Sabbia m	(0,425-2)	1,59	%
Sabbia f	(0,075-0,425)	17,44	%
Limo+argilla	(< 0,075)	75,95	%
Limo	(0,005-0,075)	48,76	%
Argilla	(< 0,005)	27,19	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*

Diametro	u.m.	*Percentuale*	
0,0561	*mm*	65,52	%
0,0407	*mm*	60,71	%
0,0297	*mm*	54,71	%
0,0217	*mm*	48,70	%
0,0158	*mm*	42,70	%
0,0118	*mm*	37,89	%
0,0085	*mm*	33,09	%
0,0061	*mm*	29,49	%
0,0044	*mm*	25,88	%
0,0031	*mm*	23,48	%
0,0022	*mm*	18,68	%
0,0016	*mm*	15,07	%
0,0013	*mm*	11,47	%

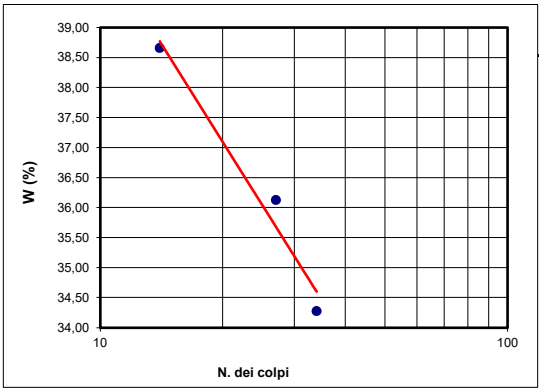
ASTM CLASSIFICATION
CL o OL
AASHTO M 145-82
-

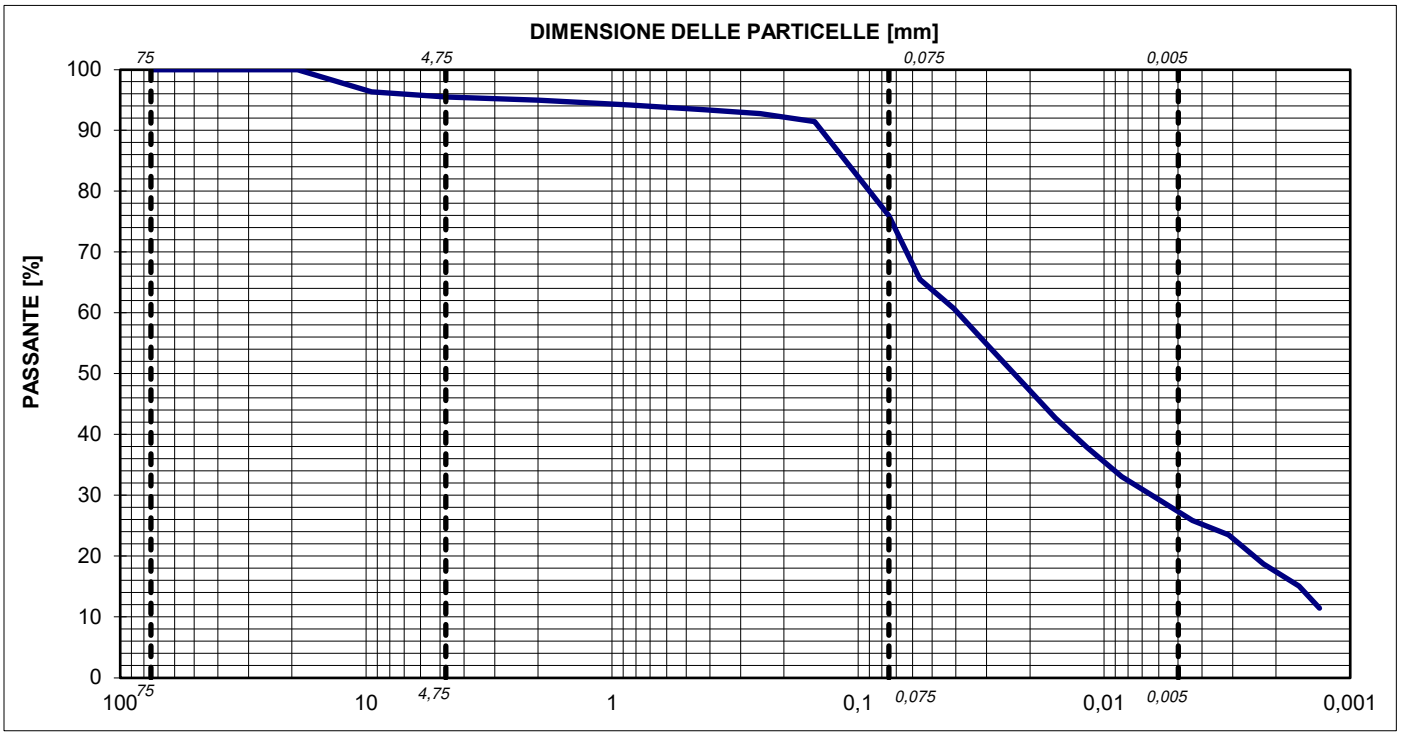
γ_s	-	*Mg/mc*
CU	-	-
CC	-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	36	%
Limite Plastico	(WP)	22	%
Indice di Plasticità	(IP)	14	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	22,22	44,71	38,44	38,66	14
LL	21,38	38,45	33,92	36,12	27
LL	22,34	42,36	37,25	34,27	34
LP	22,89	33,84	31,83	22,48	-
LP	23,48	33,39	31,58	22,35	-





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E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n. 2560	**del** 24/07/2021	**Accettazione n.** 2840	**del** 05/07/2021

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA				
COMMESSA:	-				
LOCALITA':	POGGIO RENATICO (FE)				
SONDAGGIO :	S03	CAMPIONE:	CR1 IN CLASSE Q3	PROFONDITA' :	7,50-8,00 m

ANALISI PER SETACCIATURA

Peso iniziale			170,38	*g*
Diametro massimo			20	*mm*
Diametro minimo			10	*mm*
Contenuto d'acqua			-	%
	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	99,00	%
Passante	4,75	No. 4	98,88	%
Passante	2,0	No. 10	98,83	%
Passante	0,850	No. 20	98,71	%
Passante	0,425	No. 40	98,59	%
Passante	0,254	No. 60	98,47	%
Passante	0,150	No. 100	98,30	%
Passante	0,075	No. 200	95,54	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	1,12	%
Sabbia g	(2-4,75)	0,06	%
Sabbia m	(0,425-2)	0,23	%
Sabbia f	(0,075-0,425)	3,05	%
Limo+argilla	(< 0,075)	95,54	%
Limo	(0,005-0,075)	42,18	%
Argilla	(< 0,005)	53,36	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*
Diametro	u.m.	*Percentuale*	
0,0553	*mm*	85,44	%
0,0397	*mm*	82,42	%
0,0284	*mm*	79,39	%
0,0204	*mm*	76,37	%
0,0147	*mm*	71,84	%
0,0110	*mm*	65,80	%
0,0079	*mm*	61,26	%
0,0057	*mm*	56,73	%
0,0041	*mm*	49,18	%
0,0030	*mm*	44,64	%
0,0022	*mm*	37,09	%
0,0016	*mm*	28,03	%
0,0013	*mm*	25,00	%

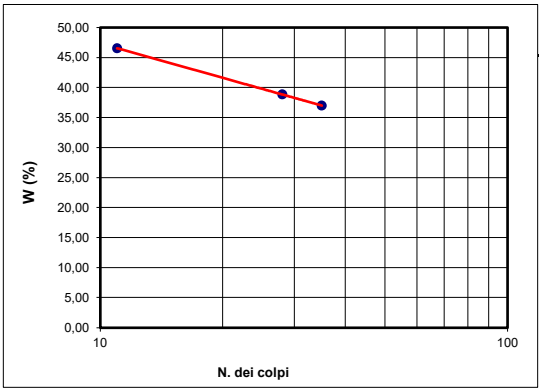
ASTM CLASSIFICATION
CL o OL
AASHTO M 145-82
-

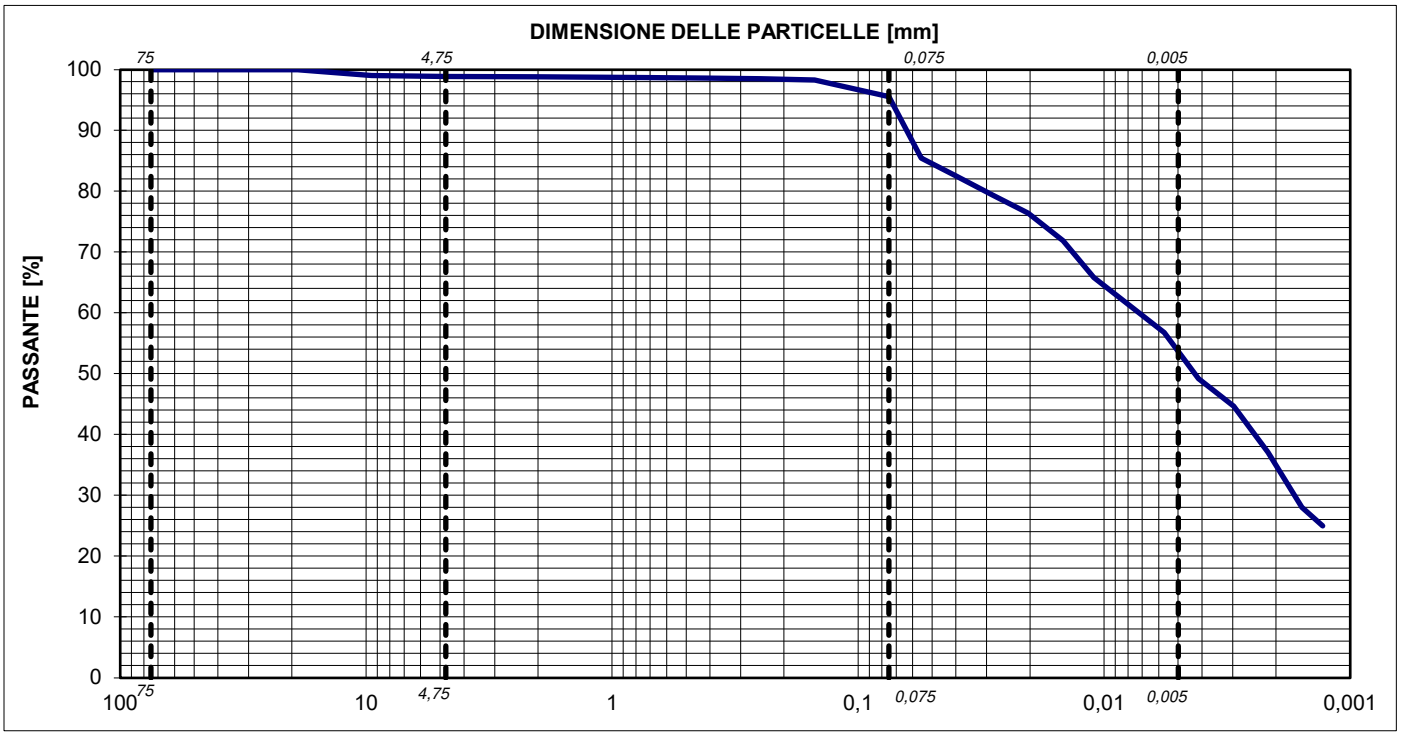
γ_s	-	*Mg/mc*	
CU		-	-
CC		-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	40	%
Limite Plastico	(WP)	23	%
Indice di Plasticità	(IP)	17	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	22,24	40,94	35,00	46,55	11
LL	22,32	41,87	36,40	38,85	28
LL	22,35	41,31	36,19	36,99	35
LP	22,20	33,42	31,24	24,12	-
LP	23,54	32,58	30,90	22,83	-





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E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n.	**2561**	**del**	**24/07/2021**	**Accettazione n.**	**2840**	**del**	**05/07/2021**

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA			
COMMESSA:	-			
LOCALITA':	POGGIO RENATICO (FE)			
SONDAGGIO :	S03	CAMPIONE:	CR2 IN CLASSE Q3	PROFONDITA' : 13,50-14,00 m

ANALISI PER SETACCIATURA

Peso iniziale			131,65	*g*
Diametro massimo			40	*mm*
Diametro minimo			20	*mm*
Contenuto d'acqua			-	%
	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	85,26	%
Passante	19,0	3/4	78,81	%
Passante	9,5	3/8	78,81	%
Passante	4,75	No. 4	78,28	%
Passante	2,0	No. 10	77,90	%
Passante	0,850	No. 20	77,59	%
Passante	0,425	No. 40	77,21	%
Passante	0,254	No. 60	76,91	%
Passante	0,150	No. 100	76,38	%
Passante	0,075	No. 200	75,47	%

Ghiaia g	(19-75)	21,19	%
Ghiaia f	(4,75-19,0)	0,53	%
Sabbia g	(2-4,75)	0,38	%
Sabbia m	(0,425-2)	0,68	%
Sabbia f	(0,075-0,425)	1,75	%
Limo+argilla	(< 0,075)	75,47	%
Limo	(0,005-0,075)	30,71	%
Argilla	(< 0,005)	44,75	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale			50	*g*
Diametro massimo			0,075	*mm*
Diametro	u.m.	*Percentuale*		
0,0545	*mm*	69,87	%	
0,0388	*mm*	68,68	%	
0,0274	*mm*	68,68	%	
0,0195	*mm*	67,49	%	
0,0140	*mm*	65,10	%	
0,0105	*mm*	60,33	%	
0,0077	*mm*	53,17	%	
0,0056	*mm*	47,20	%	
0,0041	*mm*	41,23	%	
0,0030	*mm*	35,26	%	
0,0022	*mm*	28,10	%	
0,0016	*mm*	20,94	%	
0,0013	*mm*	16,17	%	

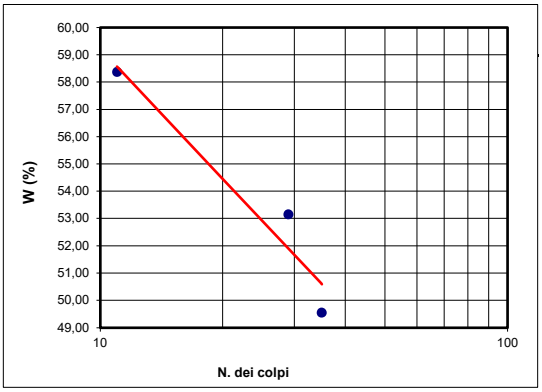
ASTM CLASSIFICATION
MH o OH
AASHTO M 145-82
-

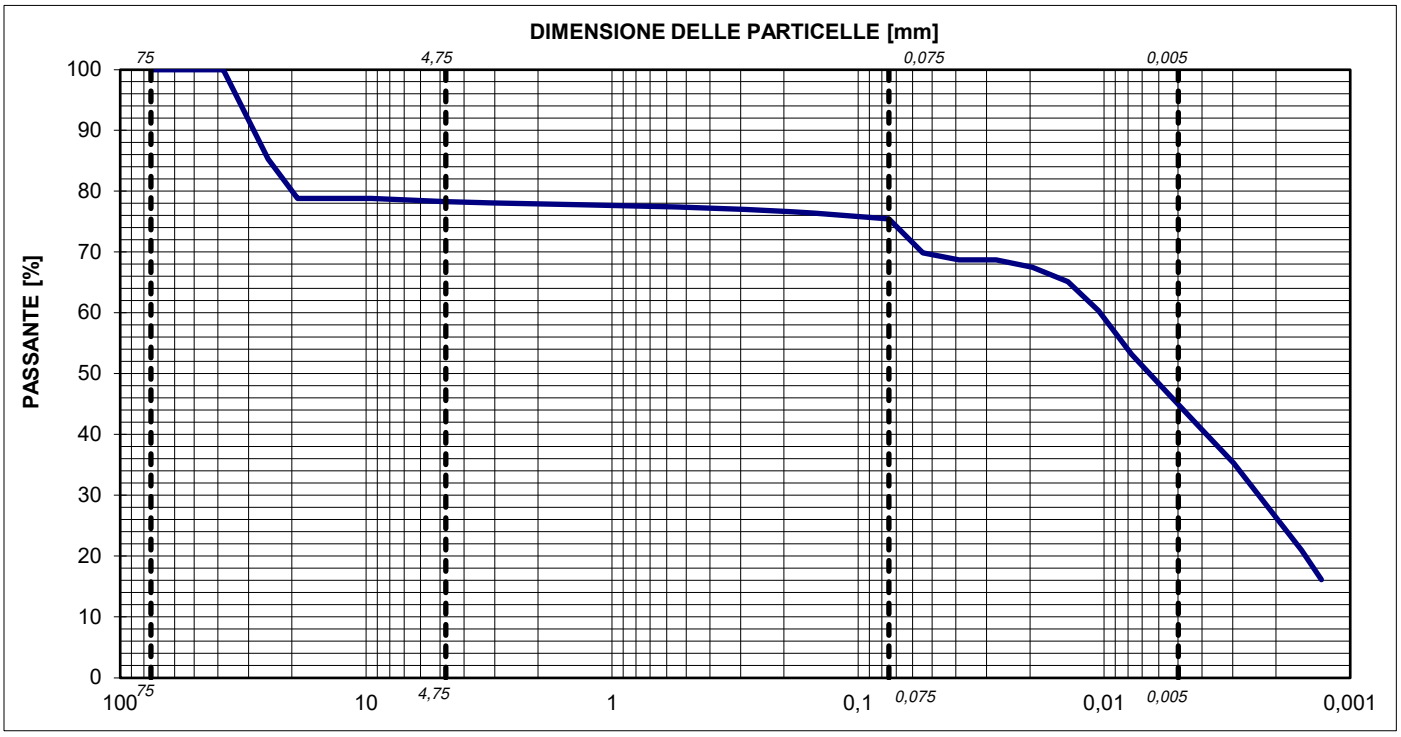
γ_s	-	*Mg/mc*	
CU		-	-
CC		-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	53	%
Limite Plastico	(WP)	32	%
Indice di Plasticità	(IP)	21	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	21,16	40,75	33,53	58,37	11
LL	22,15	41,17	34,57	53,14	29
LL	22,21	42,04	35,47	49,55	35
LP	22,41	33,25	30,59	32,52	-
LP	23,45	33,29	30,87	32,61	-





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IL DIRETTORE DEL LABORATORIO:

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Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n.	**2562**	**del**	**24/07/2021**	**Accettazione n.**	**2840**	**del**	**05/07/2021**

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA			
COMMESSA:	-			
LOCALITA':	POGGIO RENATICO (FE)			
SONDAGGIO :	S04	CAMPIONE:	CR1 IN CLASSE Q3	PROFONDITA' : 9,00-9,50 m

ANALISI PER SETACCIATURA

Peso iniziale			215,6	*g*
Diametro massimo			-	*mm*
Diametro minimo			-	*mm*
Contenuto d'acqua			-	%
	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	100,00	%
Passante	4,75	No. 4	100,00	%
Passante	2,0	No. 10	100,00	%
Passante	0,850	No. 20	99,91	%
Passante	0,425	No. 40	99,81	%
Passante	0,254	No. 60	99,77	%
Passante	0,150	No. 100	98,93	%
Passante	0,075	No. 200	72,73	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	0,00	%
Sabbia g	(2-4,75)	0,00	%
Sabbia m	(0,425-2)	0,19	%
Sabbia f	(0,075-0,425)	27,09	%
Limo+argilla	(< 0,075)	72,73	%
Limo	(0,005-0,075)	59,83	%
Argilla	(< 0,005)	12,90	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*
Diametro	u.m.	*Percentuale*	
0,0576	*mm*	58,14	%
0,0421	*mm*	52,39	%
0,0312	*mm*	43,19	%
0,0231	*mm*	32,83	%
0,0168	*mm*	27,08	%
0,0125	*mm*	21,33	%
0,0090	*mm*	17,88	%
0,0064	*mm*	15,58	%
0,0046	*mm*	12,13	%
0,0033	*mm*	10,98	%
0,0023	*mm*	8,68	%
0,0017	*mm*	6,38	%
0,0014	*mm*	5,23	%

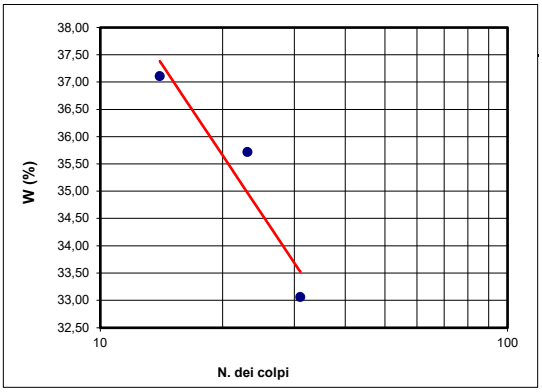
ASTM CLASSIFICATION
ML o OL
AASHTO M 145-82
-

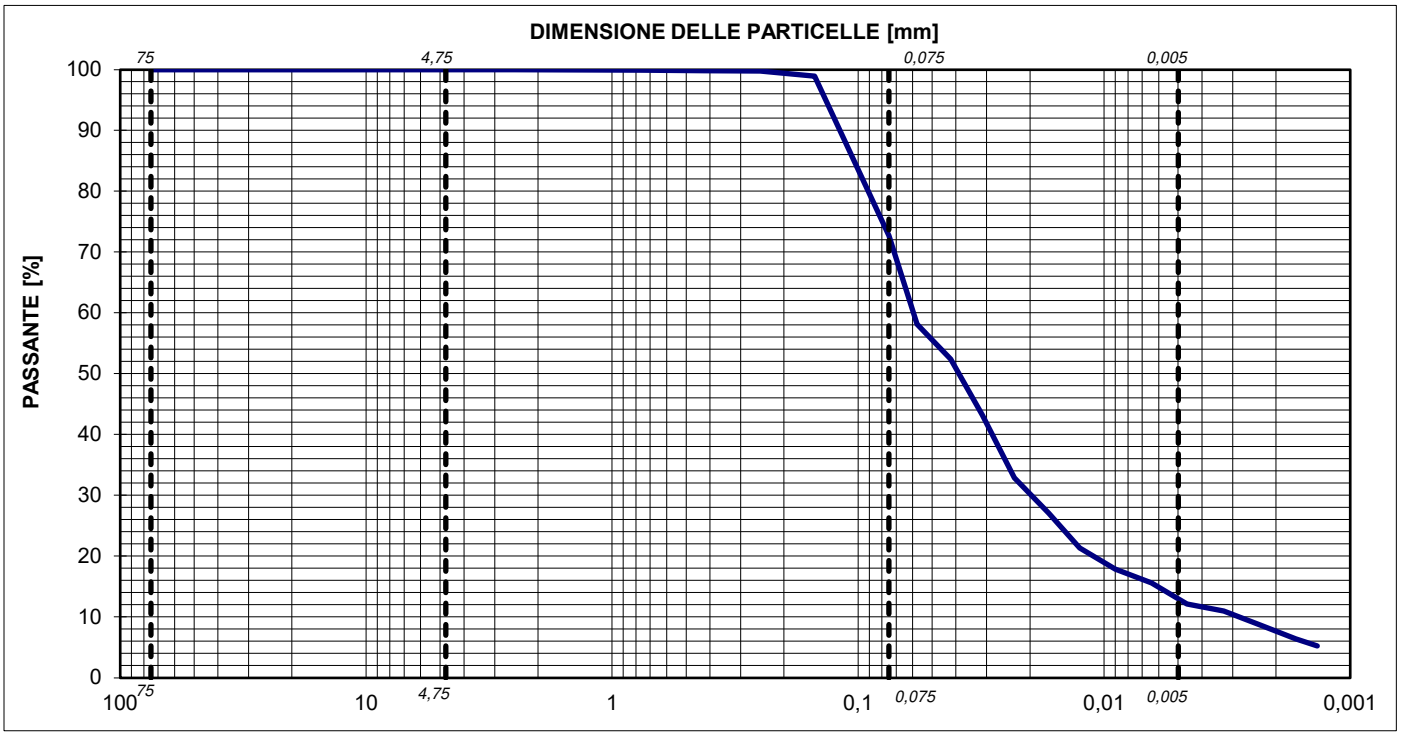
γ_s	-	*Mg/mc*
CU	-	-
CC	-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	34	%
Limite Plastico	(WP)	24	%
Indice di Plasticità	(IP)	10	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	22,25	43,68	37,88	37,11	14
LL	22,89	42,65	37,45	35,72	23
LL	23,06	44,11	38,88	33,06	31
LP	22,78	32,72	30,79	24,09	-
LP	22,13	32,97	30,85	24,31	-





Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO
Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281
E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n. 2563	**del** 24/07/2021	**Accettazione n.** 2840	**del** 05/07/2021

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA				
COMMESSA:	-				
LOCALITA':	POGGIO RENATICO (FE)				
SONDAGGIO :	S04	CAMPIONE:	CR2 IN CLASSE Q3	PROFONDITA' :	14,50-15,00 m

ANALISI PER SETACCIATURA

Peso iniziale		211,67	*g*
Diametro massimo		-	*mm*
Diametro minimo		-	*mm*
Contenuto d'acqua		-	%

	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	100,00	%
Passante	4,75	No. 4	100,00	%
Passante	2,0	No. 10	99,67	%
Passante	0,850	No. 20	99,43	%
Passante	0,425	No. 40	99,29	%
Passante	0,254	No. 60	99,20	%
Passante	0,150	No. 100	99,01	%
Passante	0,075	No. 200	98,35	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	0,00	%
Sabbia g	(2-4,75)	0,33	%
Sabbia m	(0,425-2)	0,38	%
Sabbia f	(0,075-0,425)	0,94	%
Limo+argilla	(< 0,075)	98,35	%
Limo	(0,005-0,075)	18,65	%
Argilla	(< 0,005)	79,70	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*

Diametro	u.m.	*Percentuale*	
0,0545	*mm*	91,06	%
0,0391	*mm*	87,95	%
0,0278	*mm*	86,39	%
0,0198	*mm*	84,84	%
0,0141	*mm*	83,28	%
0,0103	*mm*	83,28	%
0,0073	*mm*	81,73	%
0,0052	*mm*	80,17	%
0,0037	*mm*	77,06	%
0,0027	*mm*	73,95	%
0,0019	*mm*	72,40	%
0,0013	*mm*	72,40	%
0,0011	*mm*	70,84	%

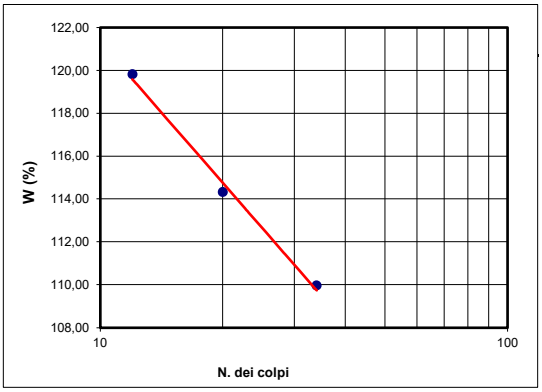
ASTM CLASSIFICATION
MH o OH
AASHTO M 145-82
-

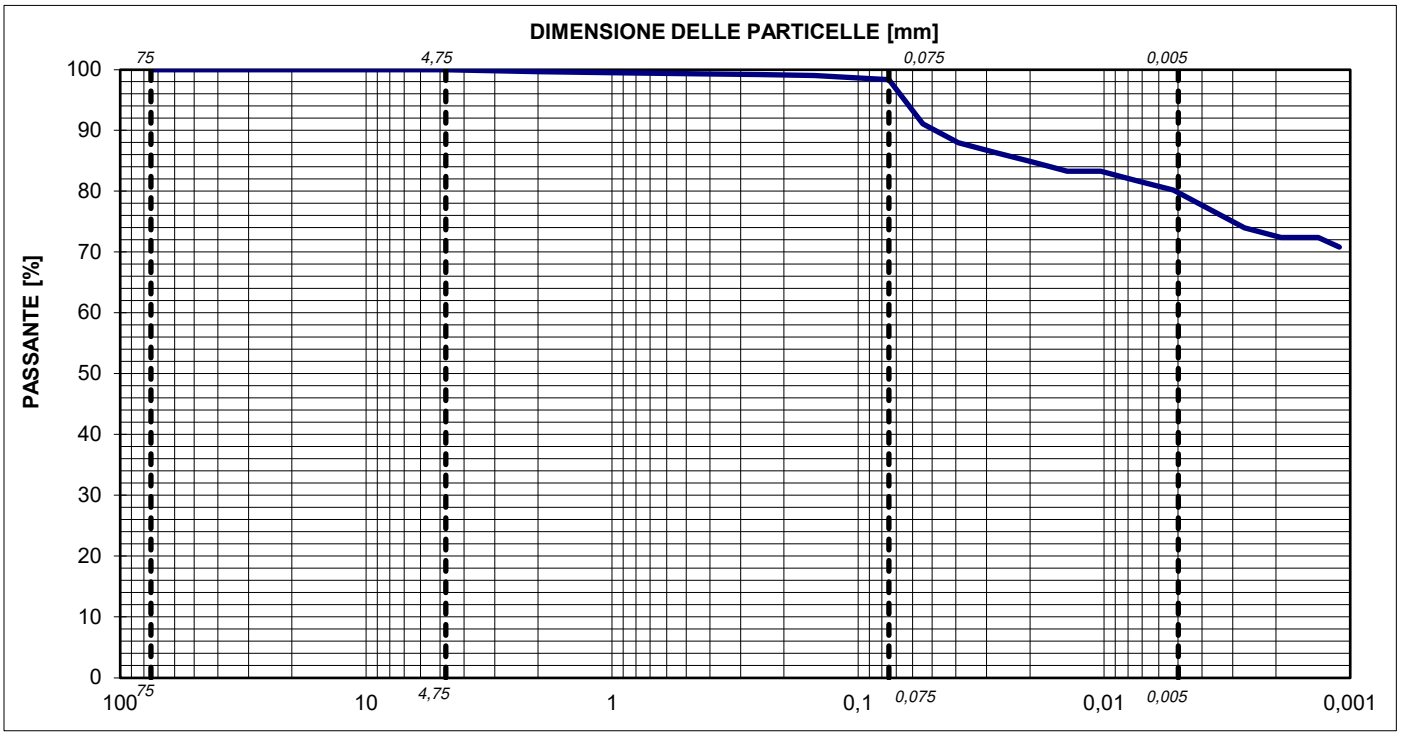
γ_s	-	*Mg/mc*
CU	-	-
CC	-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	113	%
Limite Plastico	(WP)	69	%
Indice di Plasticità	(IP)	44	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	21,14	35,34	27,60	119,81	12
LL	22,12	40,23	30,57	114,32	20
LL	22,20	40,97	31,14	109,96	34
LP	22,22	34,19	29,24	70,51	-
LP	22,35	35,79	30,29	69,27	-





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E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n.	**2564**	**del**	**24/07/2021**	**Accettazione n.**	**2840**	**del**	**05/07/2021**

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA			
COMMESSA:	-			
LOCALITA':	POGGIO RENATICO (FE)			
SONDAGGIO :	ST05	CAMPIONE:	CR1 IN CLASSE Q3	PROFONDITA' : 4,00-4,50 m

ANALISI PER SETACCIATURA

Peso iniziale			161,38	*g*
Diametro massimo			-	*mm*
Diametro minimo			-	*mm*
Contenuto d'acqua			-	%
	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	100,00	%
Passante	4,75	No. 4	100,00	%
Passante	2,0	No. 10	99,75	%
Passante	0,850	No. 20	99,63	%
Passante	0,425	No. 40	99,50	%
Passante	0,254	No. 60	99,44	%
Passante	0,150	No. 100	99,38	%
Passante	0,075	No. 200	99,26	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	0,00	%
Sabbia g	(2-4,75)	0,25	%
Sabbia m	(0,425-2)	0,25	%
Sabbia f	(0,075-0,425)	0,25	%
Limo+argilla	(< 0,075)	99,26	%
Limo	(0,005-0,075)	20,75	%
Argilla	(< 0,005)	78,51	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*
Diametro	u.m.	*Percentuale*	
0,0545	*mm*	91,90	%
0,0388	*mm*	90,33	%
0,0276	*mm*	88,76	%
0,0195	*mm*	88,76	%
0,0139	*mm*	87,19	%
0,0102	*mm*	85,62	%
0,0073	*mm*	84,05	%
0,0053	*mm*	79,34	%
0,0038	*mm*	74,63	%
0,0027	*mm*	71,50	%
0,0020	*mm*	60,51	%
0,0015	*mm*	51,09	%
0,0012	*mm*	43,24	%

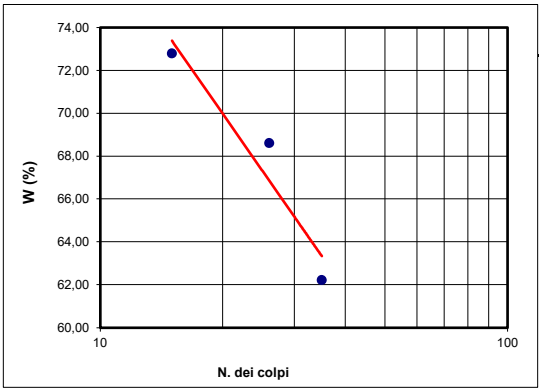
ASTM CLASSIFICATION
MH o OH
AASHTO M 145-82
-

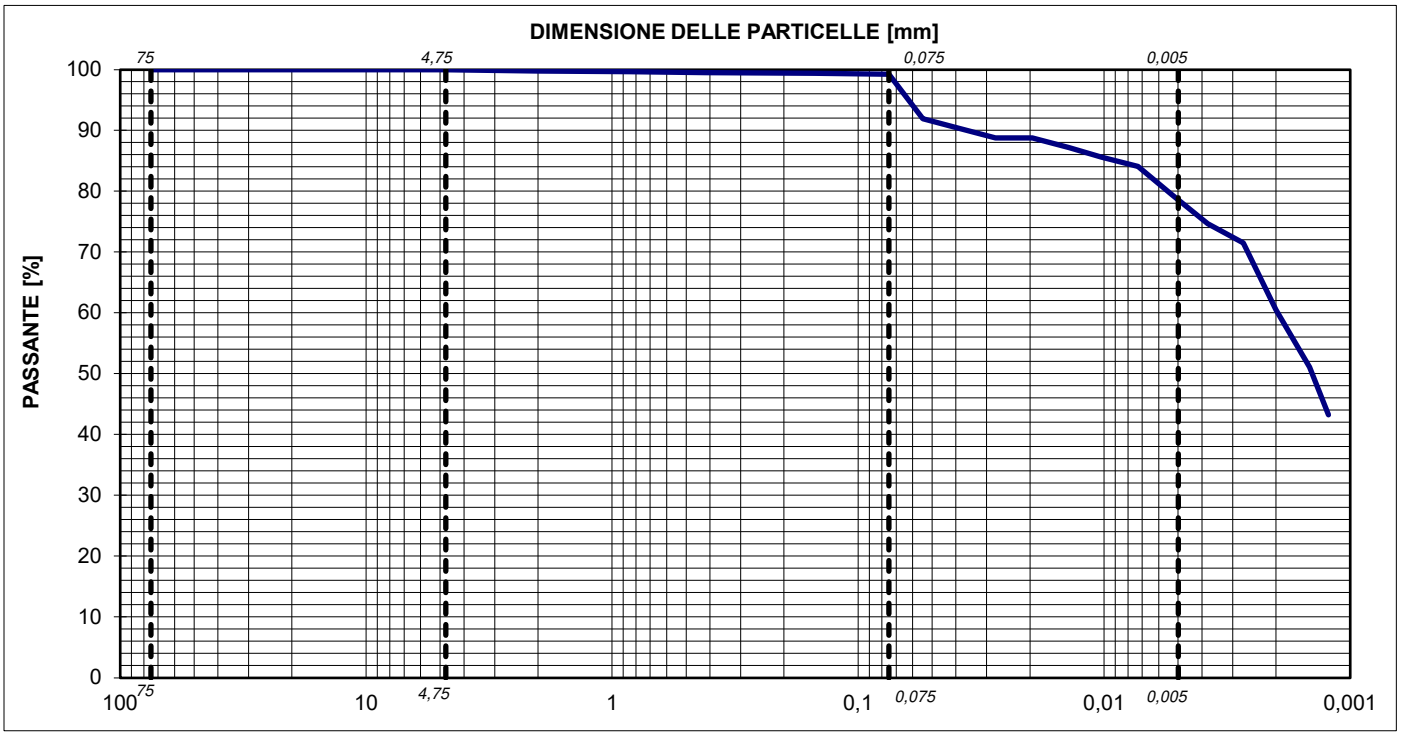
γ_s	-	*Mg/mc*
CU	-	-
CC	-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	68	%
Limite Plastico	(WP)	39	%
Indice di Plasticità	(IP)	29	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	22,23	48,51	37,44	72,78	15
LL	22,75	41,82	34,06	68,61	26
LL	23,61	46,53	37,74	62,21	35
LP	22,32	31,06	28,67	37,64	-
LP	22,80	31,80	29,15	41,73	-





Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO
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E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato n.	**2565**	**del**	**24/07/2021**	**Accettazione n.**	**2840**	**del**	**05/07/2021**

SETACCIATURA - SEDIMENTAZIONE *(ASTM D2487-D422-D6913)*	data inizio prova	**05/07/2021**	data fine prova	**12/07/2021**
LIMITI DI CONSISTENZA *(ASTM D4318)*	data inizio prova	**05/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA			
COMMESSA:	-			
LOCALITA':	POGGIO RENATICO (FE)			
SONDAGGIO :	ST05	CAMPIONE:	CR2 IN CLASSE Q3	PROFONDITA' : 11,00-11,50 m

ANALISI PER SETACCIATURA

Peso iniziale		266,05	*g*
Diametro massimo		-	*mm*
Diametro minimo		-	*mm*
Contenuto d'acqua		-	%

	mm	*Set. in.- No.*	*Percentuale passante*	
Passante	75,0	3	100,00	%
Passante	50,8	2	100,00	%
Passante	38,1	1 1/2	100,00	%
Passante	25,4	1	100,00	%
Passante	19,0	3/4	100,00	%
Passante	9,5	3/8	100,00	%
Passante	4,75	No. 4	100,00	%
Passante	2,0	No. 10	99,89	%
Passante	0,850	No. 20	99,77	%
Passante	0,425	No. 40	99,32	%
Passante	0,254	No. 60	98,87	%
Passante	0,150	No. 100	97,63	%
Passante	0,075	No. 200	86,02	%

Ghiaia g	(19-75)	0,00	%
Ghiaia f	(4,75-19,0)	0,00	%
Sabbia g	(2-4,75)	0,11	%
Sabbia m	(0,425-2)	0,56	%
Sabbia f	(0,075-0,425)	13,31	%
Limo+argilla	(< 0,075)	86,02	%
Limo	(0,005-0,075)	61,32	%
Argilla	(< 0,005)	24,70	%

ANALISI PER SEDIMENTAZIONE

Peso iniziale		50	*g*
Diametro massimo		0,075	*mm*

Diametro	u.m.	*Percentuale*	
0,0557	*mm*	75,56	%
0,0405	*mm*	70,12	%
0,0292	*mm*	66,04	%
0,0215	*mm*	56,52	%
0,0159	*mm*	47,00	%
0,0118	*mm*	41,56	%
0,0086	*mm*	34,75	%
0,0062	*mm*	26,59	%
0,0045	*mm*	23,87	%
0,0032	*mm*	18,43	%
0,0023	*mm*	14,35	%
0,0016	*mm*	11,63	%
0,0013	*mm*	8,91	%

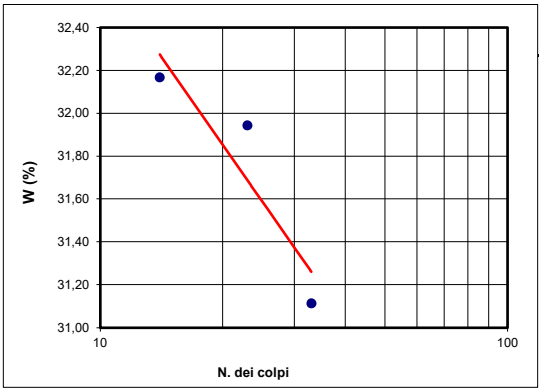
ASTM CLASSIFICATION
CL o OL
AASHTO M 145-82
-

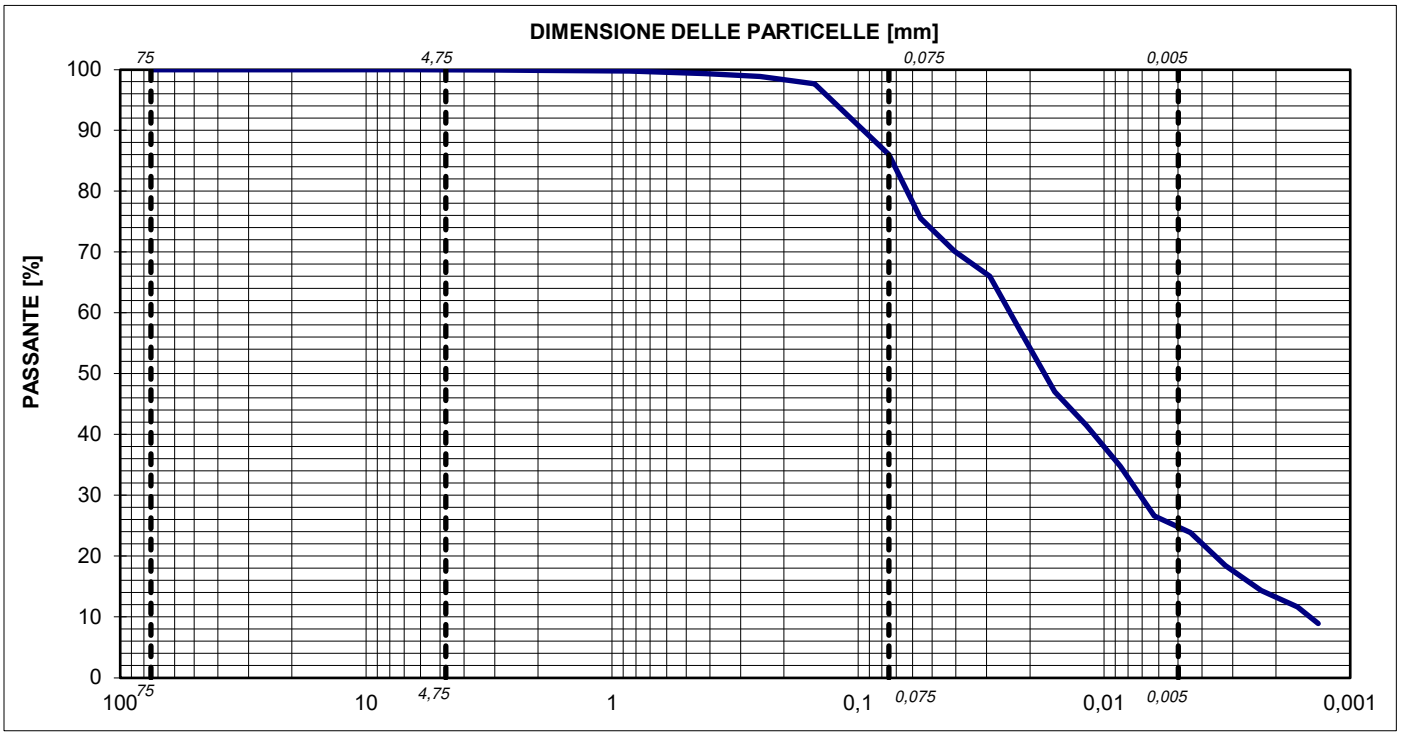
γ_s	-	*Mg/mc*
CU	-	-
CC	-	-

LIMITI DI CONSISTENZA

Limite Liquido	(WL)	31	%
Limite Plastico	(WP)	22	%
Indice di Plasticità	(IP)	9	%
Indice di Consistenza	(IC)	-	%

	Tara (g)	Peso umido (g)	Peso secco (g)	Umidità (%)	N. dei colpi
LL	23,01	44,17	39,02	32,17	14
LL	22,88	43,12	38,22	31,94	23
LL	23,02	41,52	37,13	31,11	33
LP	22,52	30,58	29,08	22,87	-
LP	21,55	30,53	28,86	22,85	-





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E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO:

Allegato 3. – Rapporti di prova campioni indisturbati

ALTAIR S.R.L.

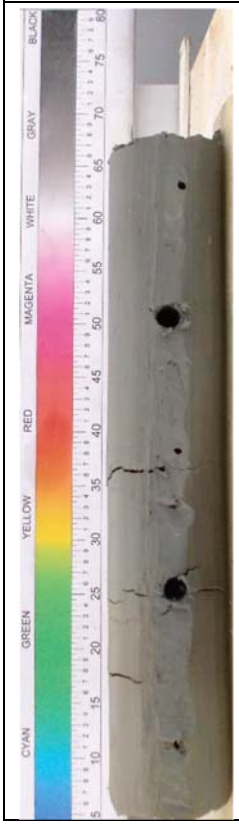
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2566	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S01
CAMPIONE:	CI1 IN CLASSE Q4-Q5
PROFONDITÀ:	6,00-6,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**		0.62 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**		10 YR 5/1 gray	
Lunghezza Campione (m)	0.47	**Odore**		inodore	
Reazione HCL	Molto forte	**Consistenza**		media	
Condizioni di Umidità	umido	**Plasticità**	**Coesione**	elevata	elevata
Strutture	-	**Prove di Laboratorio**		edo	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Argilla con Limo debolmente Ghiaioso-Sabbiosa di colore grigio.
	1.0		
		3.0	
	1.0		
		3.8	
	1.5		
			-

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2551**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435)*

data inizio prova	**07/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S01
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

Dati provino

Sezione provino	2,00E-03	m2	Peso di volume iniziale	2,05	Mg/mc
Altezza iniziale	0,020	m	Peso di volume finale	2,89	Mg/mc
Altezza finale	0,013	m	Peso di volume secco	1,58	Mg/mc
Num tara 1	1		Contenuto acqua iniziale	30,13	%
Peso tara 1	5,77E-05	Mg	Contenuto acqua finale	19,28	%
Tara + p. umido iniziale	1,40E-04	Mg	Saturazione iniziale	100,00	%
Num tara 2	2		Saturazione finale	100,00	%
Peso tara 2	5,37E-05	Mg	Indice dei vuoti iniziale	0,71	-
Tara + p. umido finale	1,29E-04	Mg	Indice dei vuoti finale	0,11	-
Tara + p. provino secco	1,17E-04	Mg	Peso vol. secco finale	2,43	Mg/mc
Peso specifico grani	2,700	Mg/mc			

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2551	**del 24/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO (ASTM D2435) - Letture cedimenti in funzione del tempo in scala logaritmica

dt	Passo 1	Passo 2	Passo 3	Passo 4	Passo 5	Passo 6	Passo 7	Passo 8	Passo 9	Passo 10	Passo 11	Passo 12	Passo 13	Passo 14	Passo 15	Passo 16	Passo 17	Passo 18	Passo 19	Passo 20	Passo 21	Passo 22
	12,5 kPa	25 kPa	50 kPa	100 kPa	200 kPa	400 kPa	800 kPa	1600 kPa	3200 kPa	6400 kPa	1600 kPa	400 kPa	100 kPa									
	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH
min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0,00	0,0000																					
0,05	1,3440	1,60	1,812	2,066	2,397	2,98	3,59	4,38	5,194	6,09	6,99	6,73	6,26									
0,09	1,4330	1,61	1,817	2,080	2,462	2,99	3,63	4,39	5,236	6,09	6,99	6,72	6,25									
0,14	1,4460	1,61	1,821	2,089	2,470	3,01	3,64	4,40	5,270	6,09	6,99	6,70	6,23									
0,25	1,4520	1,62	1,825	2,098	2,482	3,03	3,67	4,42	5,298	6,19	6,97	6,66	6,22									
0,42	1,4640	1,62	1,832	2,109	2,498	3,04	3,69	4,45	5,325	6,25	6,94	6,65	6,22									
0,71	1,4720	1,62	1,839	2,121	2,517	3,07	3,72	4,49	5,362	6,29	6,87	6,64	6,21									
1,21	1,4800	1,63	1,852	2,136	2,540	3,11	3,76	4,52	5,412	6,33	6,85	6,62	6,19									
2,05	1,4940	1,64	1,870	2,152	2,569	3,14	3,80	4,58	5,478	6,39	6,83	6,60	6,18									
3,49	1,5100	1,65	1,884	2,163	2,599	3,19	3,85	4,65	5,556	6,46	6,81	6,57	6,16									
5,93	1,5230	1,66	1,902	2,219	2,651	3,26	3,95	4,74	5,660	6,55	6,80	6,53	6,13									
10,08	1,5300	1,67	1,930	2,255	2,703	3,33	4,04	4,84	5,763	6,65	6,77	6,49	6,10									
17,14	1,5370	1,68	1,945	2,292	2,754	3,39	4,11	4,93	5,857	6,75	6,76	6,45	6,05									
29,13	1,5510	1,70	1,963	2,325	2,787	3,44	4,17	5,00	5,935	6,83	6,75	6,39	5,99									
49,52	1,5570	1,70	1,980	2,344	2,807	3,47	4,20	5,04	5,974	6,88	6,74	6,35	5,92									
84,19	1,5610	1,71	1,988	2,361	2,828	3,50	4,24	5,07	6,002	6,92	6,74	6,31	5,84									
143,12	1,5730	1,71	1,995		2,842	3,52	4,25	5,09	6,021	6,94	6,74	6,29	5,78									
243,30	1,5740	1,72	1,998		2,853	3,54	4,26	5,11	6,041	6,96	6,74	6,29	5,73									
413,62	1,5770	1,76	2,003		2,862	3,55	4,28	5,13	6,058	6,98	6,73	6,27	5,70									
703,15	1,5770	1,76	2,006		2,869	3,56	4,29	5,14	6,072	6,99	6,73	6,27	5,69									
1195,35	1,5810		2,028		2,877		4,30		6,082		6,73		5,68									
2032,12					2,890																	
3454,60					2,897																	
5872,82																						
ε (%)	7,615	8,466	9,937	11,635	14,024	17,635	21,080	25,215	29,830	34,435	33,655	31,335	28,425									
e	0,581	0,566	0,541	0,512	0,471	0,409	0,350	0,280	0,201	0,122	0,135	0,175	0,225									

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

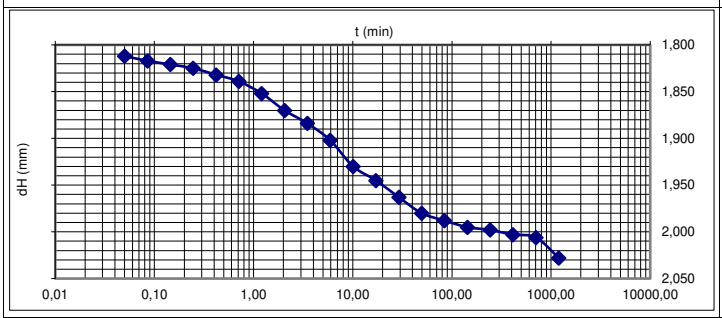
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2551**	**del 24/07/2021**	**Accettazione 2840**	**del 05/07/2021**

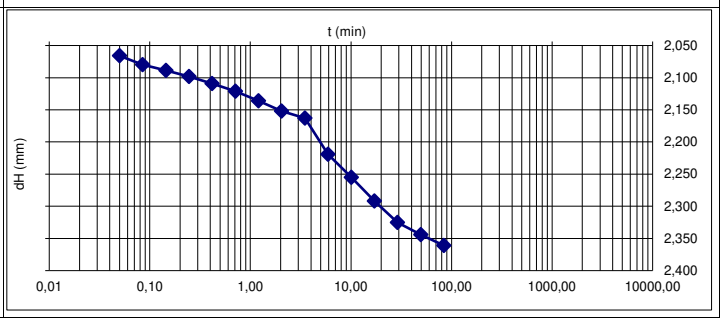
PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Diagrammi cedimento- log del tempo*

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S01
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

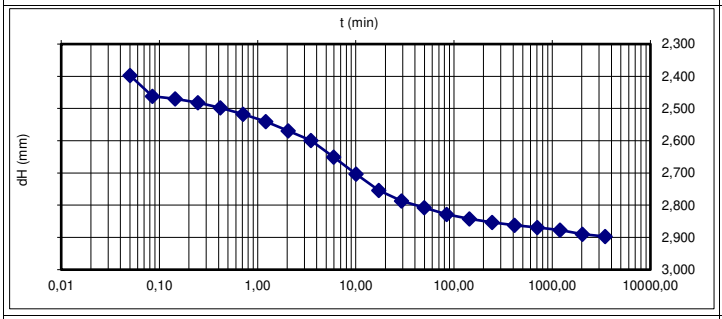
Passo 3 - σv 50 kPa



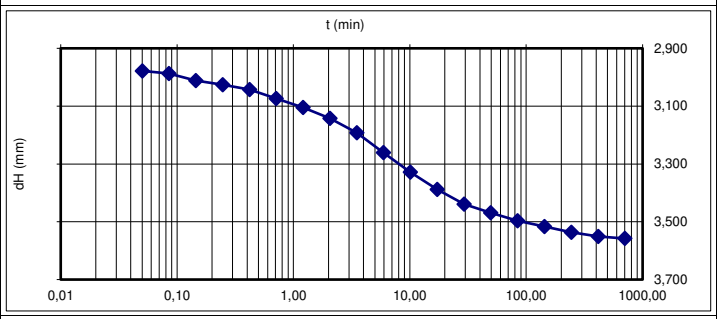
Passo 4 - σv 100 kPa



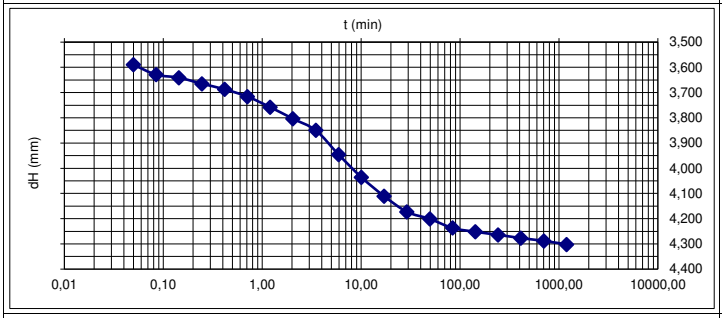
Passo 5 - σv 200 kPa



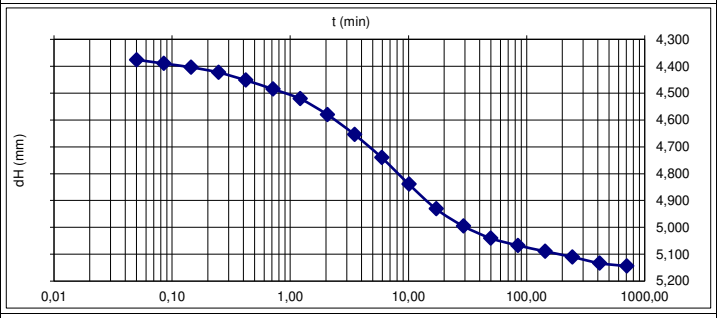
Passo 6 - σv 400 kPa



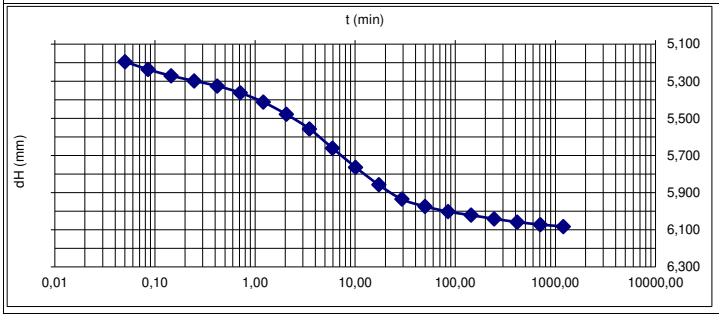
Passo 7 - σv 800 kPa



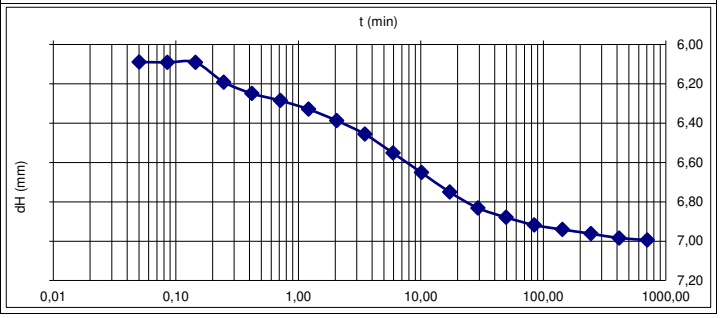
Passo 8 - σv 1600 kPa



Passo 9 - σv 3200 kPa



Passo 10 - σv 6400 kPa

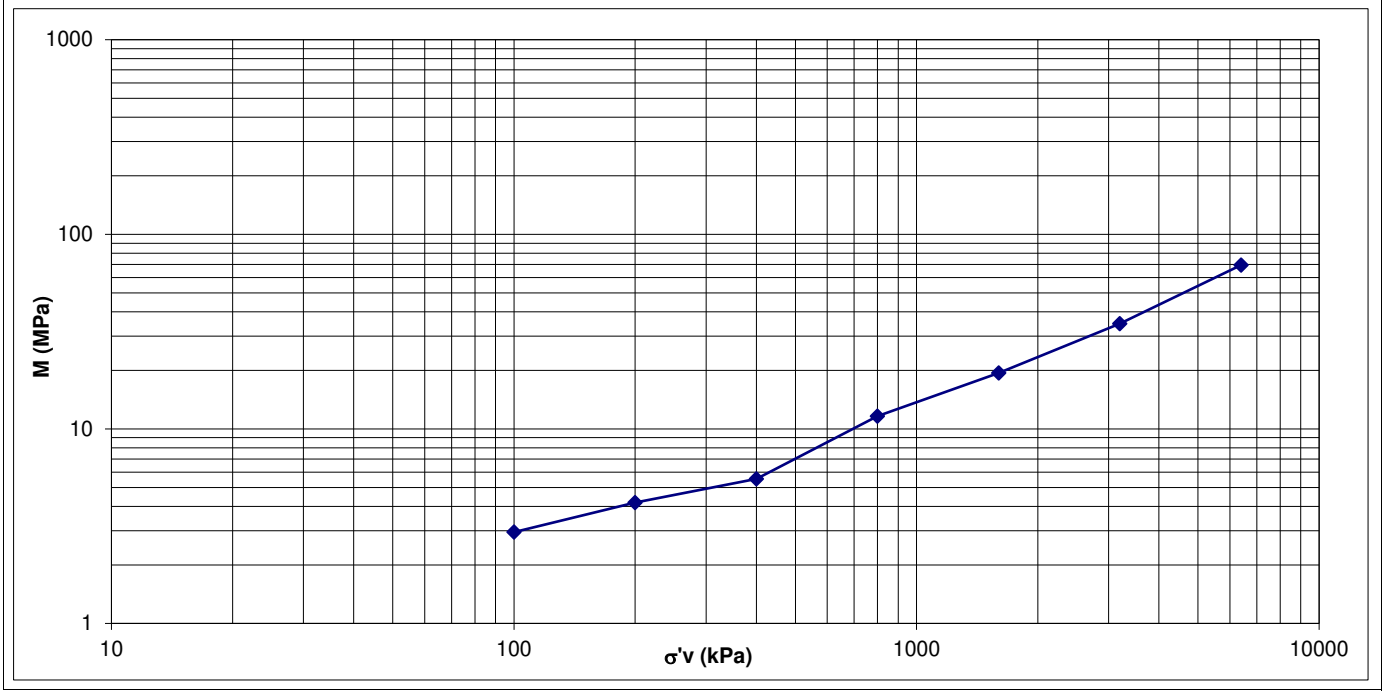


Certificato	**2551**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Tabella riassuntiva*

Passo	σ'_v [kPa]	ε [%]	e [-]	M [MPa]	C_v [cmq/sec]	K [m/sec]	C_α [%]	a_v [MPa-1]
1	12,5	7,615	0,581					
2	25	8,466	0,566	1,46842	7,17E-04	4,79E-10		
3	50	9,937	0,541	1,69924	9,30E-04	5,37E-10		
4	100	11,635	0,512	2,94549	5,32E-04	1,77E-10		
5	200	14,024	0,471	4,18526	5,66E-04	1,33E-10		
6	400	17,635	0,409	5,53858	6,56E-04	1,16E-10		
7	800	21,080	0,350	11,61227	5,62E-04	4,75E-11		
8	1600	25,215	0,280	19,34617	4,28E-04	2,17E-11		
9	3200	29,830	0,201	34,67431	4,17E-04	1,18E-11		
10	6400	34,435	0,122	69,48047	4,95E-04	6,99E-12		
11	1600	33,655	0,135					
12	400	31,335	0,175					
13	100	28,425	0,225					

Grafico di confronto tra la pressione verticale applicata **σ' v** (kPa) e il modulo edometrico **M**

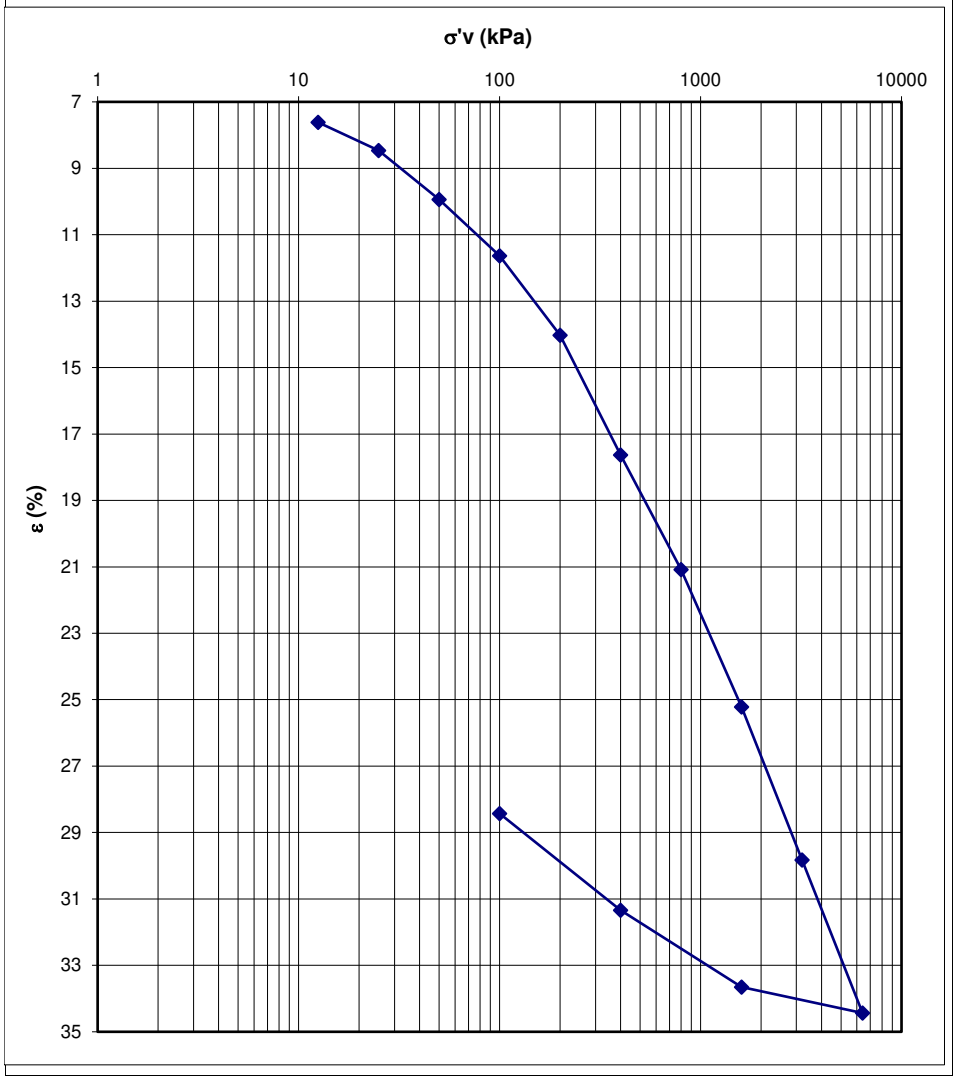


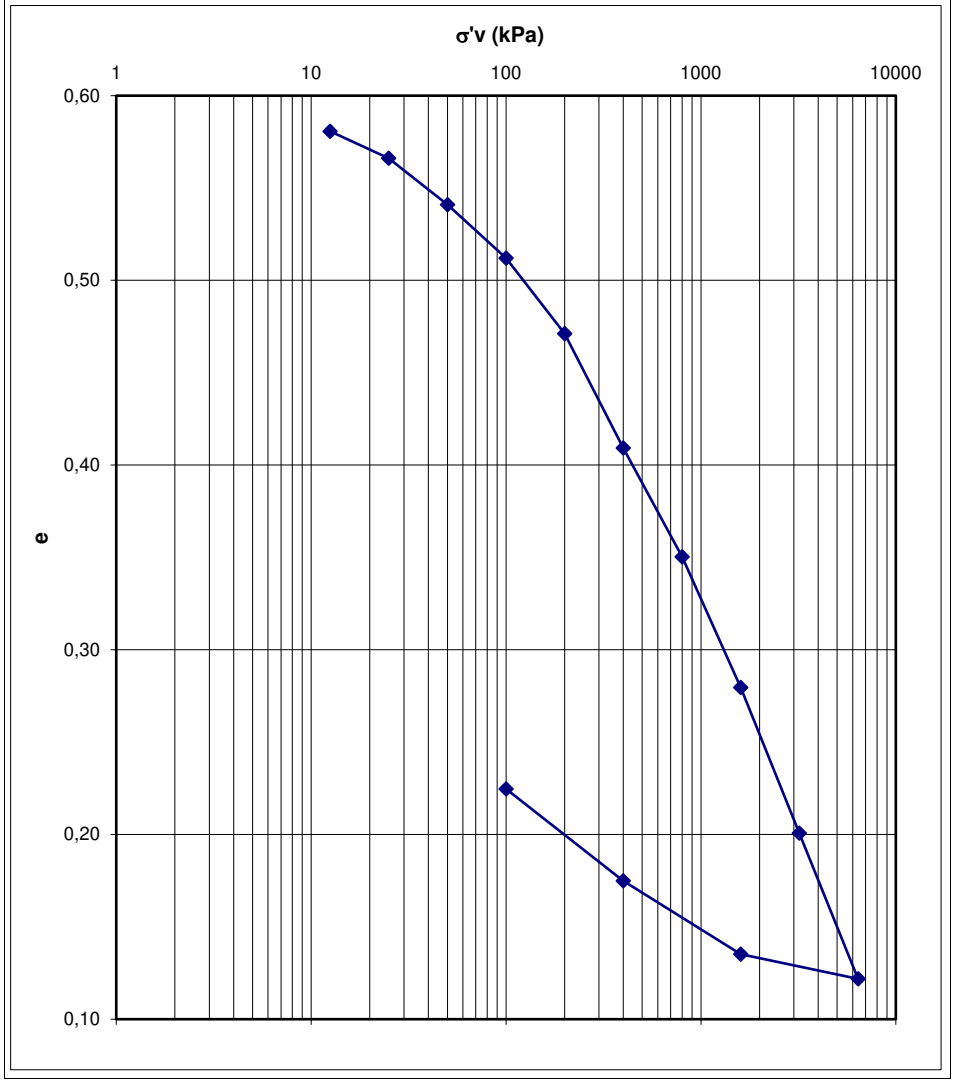
ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2551**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Grafici tra la pressione verticale* ***σ' v*** *(kPa), la deformazione verticale* ***ε*** *e l'indice dei vuoti* ***e***





ALTAIR S.R.L.

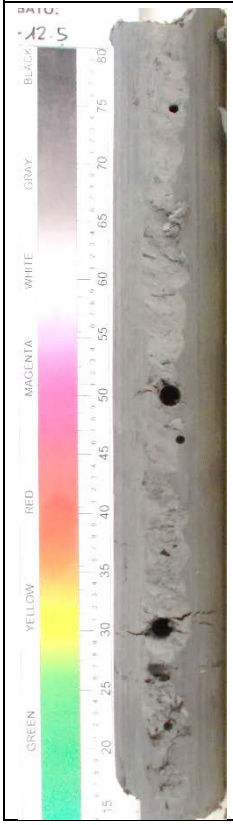
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2567	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S01
CAMPIONE:	CI2 IN CLASSE Q4-Q5
PROFONDITÀ:	12,00-12,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**		0.70 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**		2.5 Y 3/2 very dark grayish brown	
Lunghezza Campione (m)	0.58	**Odore**		inodore	
Reazione HCL	debole	**Consistenza**		media	
Condizioni di Umidità	umido	**Plasticità**	**Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**		taglio	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Limo e Argilla Sabbioso di colore grigio scuro. A 12.50 m sono visibili livelli millimetrici di colore scuro di origine organica, probabile torba.
	1.5		
		2.5	
	1.6		
		2.3	
	1.75		
			-

ALTAIR S.R.L.

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2546	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO *(ASTM D3080)*

data inizio prova	08/07/2021	data fine prova	13/07/2021

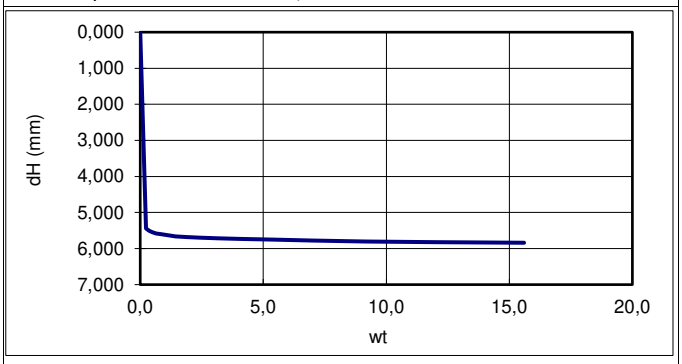
COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
CAMPIONE:	S01
SONDAGGIO:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Dati Provini		σ_v (kPa)	σ_v (kPa)	σ_v (kPa)
		150,0	250,0	350,0
Sezione provino	mmq	28293,19	28293,19	28293,19
Altezza iniziale	mm	19,76	19,76	19,76
Altezza finale	mm	13,43	18,68	17,27
Peso tara 1	Mg	4,47E-05	4,47E-05	4,47E-05
Tara + p. umido iniziale	Mg	1,30E-04	1,43E-04	1,36E-04
Peso tara 2	Mg	5,23E-05	4,44E-05	5,36E-05
Tara + p. umido finale	Mg	1,37E-04	1,40E-04	1,43E-04
Tara + p. provino secco	Mg	1,03E-04	1,10E-04	1,11E-04
Peso di volume iniziale	Mg/mc	1,52	1,75	1,63
Peso di volume finale	Mg/mc	2,23	1,81	1,82
Peso di volume secco	Mg/mc	0,91	1,17	1,03
Contenuto acqua iniziale	%	67,59	49,34	58,44
Contenuto acqua finale	%	67,31	45,64	54,82
Saturazione iniziale	%	92,40	100,00	96,99
Saturazione finale	%	100,00	100,00	100,00
Indice dei vuoti iniziale	-	1,97	1,30	1,63
Indice dei vuoti finale	-	1,02	1,18	1,30
Peso vol. secco finale	Mg/mc	1,33	1,24	1,18
Altezza fine consolidazione	mm	13,92	19,35	17,93
Valore t_{100}	min	2,10	3,30	3,80

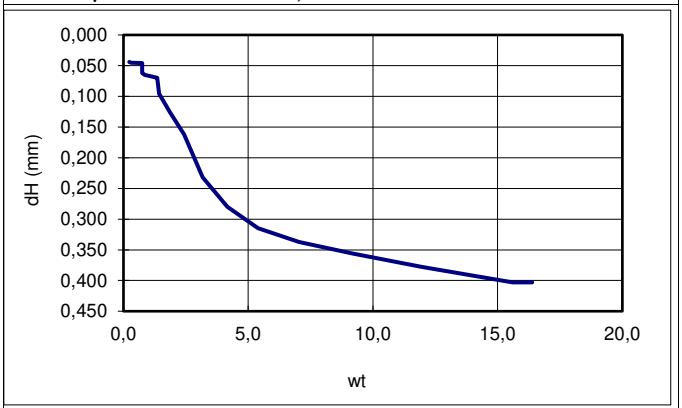
Letture Tempi - Cedimenti		σ_v (KpA)	σ_v (KpA)	σ_v (KpA)
		150,0	250,0	350,0
[min]	letture n.	dH [mm]	dH [mm]	dH [mm]
0,00	1	0,00	0,00	0,00
0,05	2	5,44	0,05	0,58
0,09	3	5,48	0,05	0,99
0,15	4	5,52	0,05	1,40
0,25	5	5,55	0,06	1,47
0,42	6	5,58	0,07	1,51
0,71	7	5,60	0,07	1,54
1,21	8	5,63	0,10	1,57
2,05	9	5,66	0,13	1,60
3,49	10	5,68	0,16	1,62
5,93	11	5,70	0,23	1,65
10,08	12	5,72	0,28	1,67
17,14	13	5,73	0,32	1,69
29,14	14	5,75	0,34	1,72
49,53	15	5,78	0,36	1,75
84,19	16	5,80	0,38	1,76
143,12	17	5,82	0,40	1,79
243,31	18	5,84	0,40	1,83
0,00	19	0,00	0,00	0,00
0,00	20	0,00	0,00	0,00
0,00	21	0,00	0,00	0,00

Grafici Cedimenti dh/√t

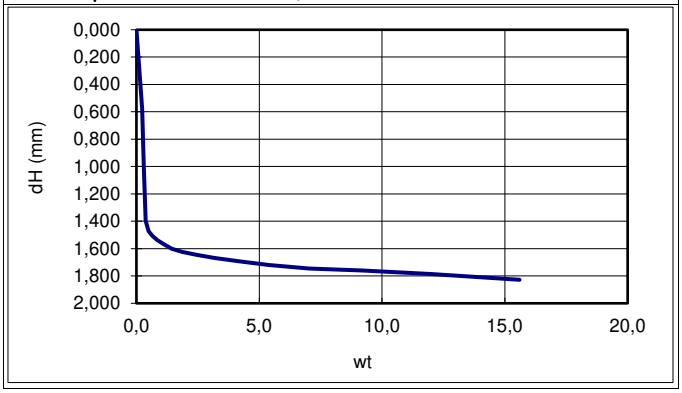
σ_v 150,0 kPa



σ_v 250,0 kPa



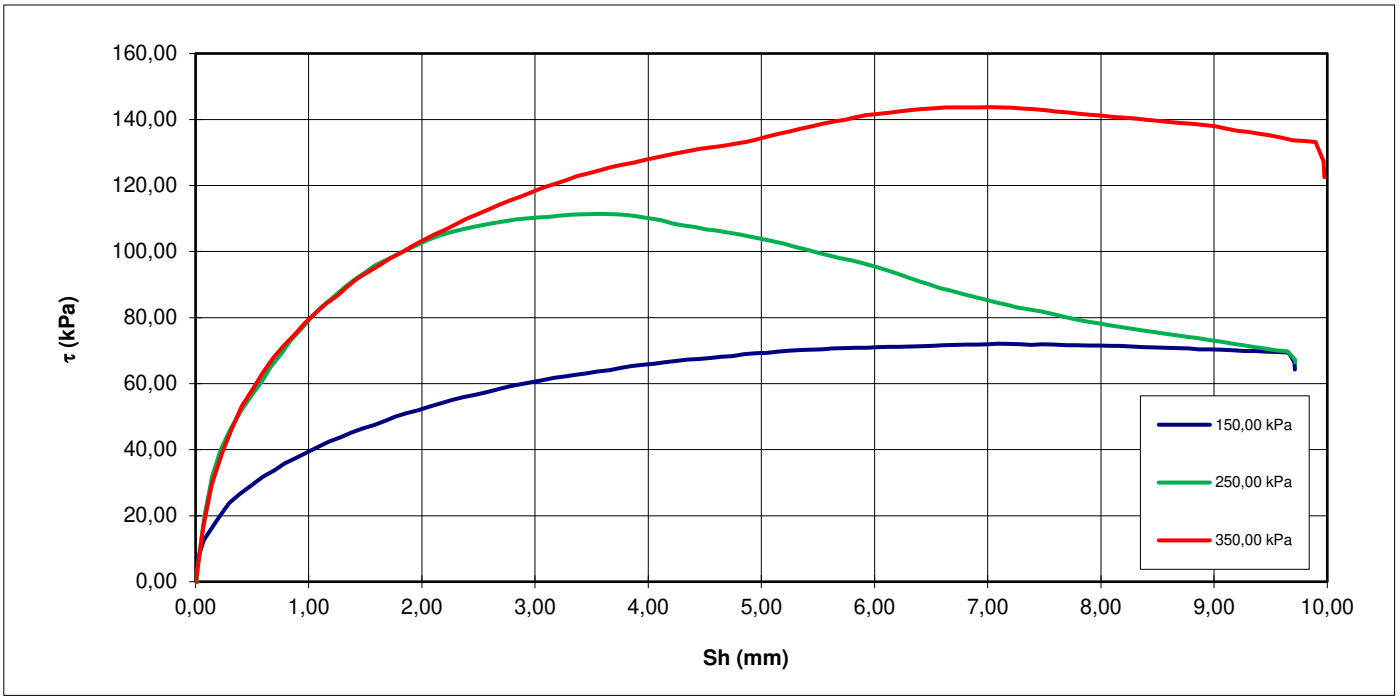
σ_v 350,0 kPa



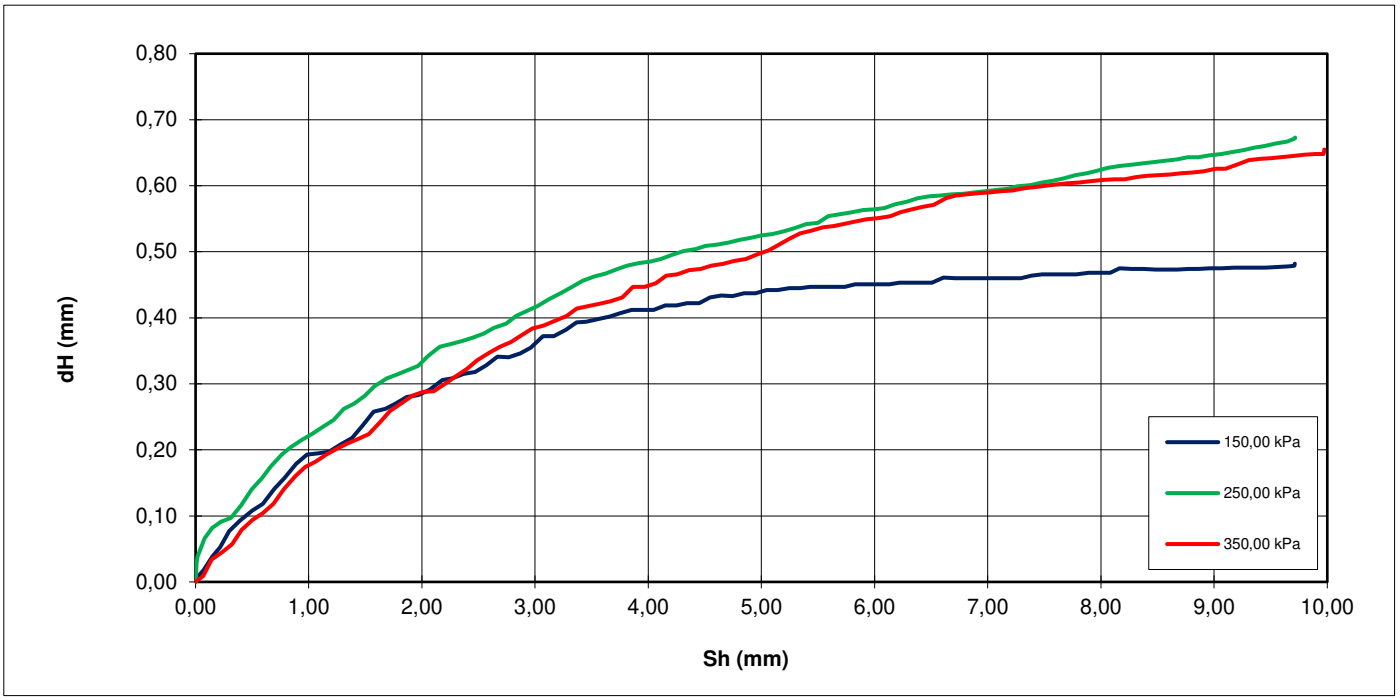
IL DIRETTORE DEL LABORATORIO:

Certificato 2546	del 23/07/2021	Accettazione 2840	del 05/07/2021

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICO (t Sh) ASTM D3080



PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICI (deformazione verticale/scorrimento orizzontale) ASTM D3080



Certificato 2546	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
0	0,00	0,00	0,00	0,00	0,00	0,00	-2,00	-0,71	0,00	0,00	-1,40	-0,49
10	0,00	0,01	-0,20	-0,07	0,01	0,03	-2,50	-0,88	0,07	0,01	46,90	16,58
20	0,00	0,01	-0,30	-0,11	0,02	0,04	11,60	4,10	0,14	0,03	82,70	29,23
30	0,01	0,01	16,60	5,87	0,08	0,07	56,80	20,08	0,23	0,05	110,50	39,06
40	0,07	0,02	35,30	12,48	0,15	0,08	90,60	32,02	0,32	0,06	131,70	46,55
50	0,15	0,04	46,70	16,51	0,22	0,09	113,50	40,12	0,41	0,08	150,20	53,09
60	0,22	0,05	56,80	20,08	0,31	0,10	131,30	46,41	0,50	0,09	164,80	58,25
70	0,30	0,08	67,30	23,79	0,40	0,12	146,40	51,74	0,60	0,10	179,10	63,30
80	0,39	0,09	75,50	26,68	0,49	0,14	160,00	56,55	0,69	0,12	192,00	67,86
90	0,50	0,11	83,10	29,37	0,59	0,16	171,70	60,69	0,78	0,14	202,10	71,43
100	0,60	0,12	89,80	31,74	0,67	0,18	184,30	65,14	0,88	0,16	212,20	75,00
110	0,70	0,14	95,30	33,68	0,76	0,19	195,90	69,24	0,97	0,17	221,80	78,39
120	0,78	0,16	101,20	35,77	0,84	0,20	206,80	73,09	1,06	0,18	230,50	81,47
130	0,89	0,18	106,00	37,46	0,94	0,22	217,20	76,77	1,15	0,19	238,40	84,26
140	0,99	0,19	110,90	39,20	1,03	0,22	227,00	80,23	1,25	0,20	245,10	86,63
150	1,09	0,20	115,70	40,89	1,12	0,23	236,00	83,41	1,34	0,21	253,20	89,49
160	1,18	0,20	120,10	42,45	1,22	0,25	244,20	86,31	1,43	0,22	260,00	91,89
170	1,28	0,21	123,80	43,76	1,31	0,26	251,70	88,96	1,53	0,22	265,70	93,91
180	1,38	0,22	128,00	45,24	1,40	0,27	258,60	91,40	1,63	0,24	271,60	95,99
190	1,48	0,24	131,40	46,44	1,50	0,28	264,90	93,63	1,72	0,26	277,10	97,94
200	1,57	0,26	134,20	47,43	1,58	0,30	270,80	95,71	1,82	0,27	282,20	99,74
210	1,68	0,26	137,80	48,70	1,69	0,31	275,80	97,48	1,92	0,28	287,80	101,72
220	1,77	0,27	141,40	49,98	1,78	0,31	280,40	99,11	2,01	0,29	292,70	103,45
230	1,87	0,28	144,60	51,11	1,88	0,32	284,80	100,66	2,11	0,29	297,40	105,11
240	1,97	0,28	147,10	51,99	1,97	0,33	289,20	102,22	2,21	0,30	301,90	106,70
250	2,06	0,29	150,10	53,05	2,05	0,34	293,00	103,56	2,31	0,31	306,60	108,37
260	2,18	0,31	153,20	54,15	2,16	0,36	296,70	104,87	2,40	0,32	311,20	109,99
270	2,27	0,31	155,90	55,10	2,25	0,36	299,40	105,82	2,49	0,34	315,00	111,33
280	2,37	0,32	158,10	55,88	2,36	0,37	302,00	106,74	2,60	0,35	319,30	112,85
290	2,47	0,32	160,10	56,59	2,45	0,37	303,80	107,38	2,69	0,36	323,30	114,27
300	2,57	0,33	162,30	57,36	2,55	0,38	305,80	108,08	2,78	0,36	326,90	115,54
310	2,67	0,34	164,80	58,25	2,64	0,39	307,60	108,72	2,89	0,37	330,60	116,85
320	2,77	0,34	167,20	59,10	2,74	0,39	309,00	109,21	2,98	0,38	334,20	118,12
330	2,87	0,35	169,30	59,84	2,83	0,40	310,40	109,71	3,08	0,39	337,90	119,43
340	2,96	0,36	170,80	60,37	2,92	0,41	311,40	110,06	3,18	0,40	341,30	120,63
350	3,07	0,37	172,80	61,07	3,02	0,42	312,00	110,27	3,28	0,40	344,30	121,69
360	3,17	0,37	174,60	61,71	3,12	0,43	312,80	110,56	3,37	0,41	347,50	122,82
370	3,27	0,38	176,00	62,21	3,22	0,44	313,80	110,91	3,47	0,42	350,10	123,74
380	3,37	0,39	177,40	62,70	3,33	0,45	314,70	111,23	3,57	0,42	352,50	124,59
390	3,45	0,39	178,60	63,12	3,42	0,46	314,90	111,30	3,67	0,43	355,10	125,51
400	3,55	0,40	180,20	63,69	3,53	0,46	315,20	111,40	3,77	0,43	357,50	126,36
410	3,66	0,40	181,40	64,11	3,62	0,47	315,20	111,40	3,86	0,45	359,10	126,92
420	3,75	0,41	183,10	64,72	3,72	0,47	314,90	111,30	3,97	0,45	361,50	127,77
430	3,85	0,41	184,90	65,35	3,81	0,48	314,20	111,05	4,07	0,45	363,30	128,41
440	3,96	0,41	185,90	65,70	3,91	0,48	312,90	110,59	4,16	0,46	365,40	129,15
450	4,05	0,41	186,80	66,02	4,02	0,49	311,30	110,03	4,26	0,47	367,20	129,78
460	4,15	0,42	188,10	66,48	4,11	0,49	309,80	109,50	4,36	0,47	369,10	130,46
470	4,25	0,42	189,20	66,87	4,22	0,50	307,00	108,51	4,46	0,47	371,00	131,13
480	4,34	0,42	190,20	67,22	4,31	0,50	305,40	107,94	4,56	0,48	372,10	131,52
490	4,45	0,42	190,90	67,47	4,42	0,50	303,80	107,38	4,66	0,48	373,70	132,08
500	4,55	0,43	191,80	67,79	4,51	0,51	302,10	106,77	4,76	0,49	375,30	132,65
510	4,65	0,43	192,80	68,14	4,61	0,51	300,80	106,32	4,86	0,49	377,00	133,25
520	4,74	0,43	193,40	68,36	4,70	0,51	299,10	105,71	4,96	0,50	379,10	133,99
530	4,85	0,44	195,00	68,92	4,81	0,52	297,60	105,18	5,06	0,50	381,70	134,91
540	4,95	0,44	195,70	69,17	4,90	0,52	295,70	104,51	5,15	0,51	383,70	135,62
550	5,05	0,44	196,20	69,35	5,01	0,53	293,70	103,81	5,25	0,52	386,00	136,43
560	5,14	0,44	197,10	69,66	5,10	0,53	291,70	103,10	5,34	0,53	388,10	137,17
570	5,25	0,45	198,00	69,98	5,20	0,53	289,50	102,32	5,45	0,53	390,20	137,91
580	5,34	0,45	198,50	70,16	5,30	0,54	286,90	101,40	5,54	0,54	392,50	138,73
590	5,43	0,45	198,80	70,26	5,40	0,54	284,80	100,66	5,64	0,54	394,40	139,40
600	5,53	0,45	199,20	70,41	5,50	0,54	281,90	99,64	5,75	0,54	396,20	140,03
610	5,63	0,45	200,00	70,69	5,59	0,55	279,70	98,86	5,83	0,55	397,90	140,63
620	5,74	0,45	200,30	70,79	5,69	0,56	277,20	97,97	5,93	0,55	399,80	141,31
630	5,83	0,45	200,40	70,83	5,80	0,56	275,40	97,34	6,04	0,55	400,90	141,69

Certificato 2546	del 23/07/2021	Accettazione 2840	del 05/07/2021

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
640	5,93	0,45	200,60	70,90	5,90	0,56	272,80	96,42	6,14	0,55	402,20	142,15
650	6,03	0,45	200,90	71,01	5,99	0,56	270,50	95,61	6,23	0,56	403,30	142,54
660	6,13	0,45	201,20	71,11	6,09	0,57	267,80	94,65	6,33	0,56	404,20	142,86
670	6,22	0,45	201,30	71,15	6,18	0,57	264,80	93,59	6,42	0,57	405,20	143,21
680	6,32	0,45	201,60	71,25	6,29	0,58	261,10	92,28	6,52	0,57	405,60	143,36
690	6,42	0,45	201,80	71,32	6,38	0,58	257,80	91,12	6,63	0,58	406,60	143,71
700	6,51	0,45	202,10	71,43	6,48	0,58	254,70	90,02	6,71	0,59	406,40	143,64
710	6,61	0,46	202,80	71,68	6,57	0,59	251,90	89,03	6,81	0,59	406,40	143,64
720	6,71	0,46	203,00	71,75	6,68	0,59	249,30	88,11	6,93	0,59	406,60	143,71
730	6,82	0,46	203,20	71,82	6,79	0,59	246,40	87,09	7,02	0,59	406,70	143,74
740	6,91	0,46	203,10	71,78	6,88	0,59	244,20	86,31	7,12	0,59	406,50	143,67
750	7,00	0,46	203,60	71,96	6,99	0,59	241,60	85,39	7,22	0,59	406,30	143,60
760	7,10	0,46	204,00	72,10	7,08	0,59	239,10	84,51	7,32	0,60	405,40	143,29
770	7,20	0,46	203,70	72,00	7,18	0,60	237,20	83,84	7,42	0,60	404,90	143,11
780	7,29	0,46	203,50	71,93	7,26	0,60	235,00	83,06	7,52	0,60	404,00	142,79
790	7,39	0,46	203,00	71,75	7,38	0,60	233,10	82,39	7,60	0,60	402,80	142,37
800	7,48	0,47	203,40	71,89	7,48	0,61	231,40	81,79	7,72	0,60	402,00	142,08
810	7,59	0,47	203,10	71,78	7,58	0,61	229,30	81,04	7,81	0,61	401,00	141,73
820	7,70	0,47	202,70	71,64	7,67	0,61	227,20	80,30	7,90	0,61	400,20	141,45
830	7,78	0,47	202,60	71,61	7,77	0,62	224,80	79,45	8,01	0,61	399,30	141,13
840	7,89	0,47	202,40	71,54	7,88	0,62	223,10	78,85	8,12	0,61	398,30	140,78
850	7,99	0,47	202,30	71,50	7,97	0,62	221,60	78,32	8,21	0,61	397,70	140,56
860	8,08	0,47	202,20	71,47	8,06	0,63	219,90	77,72	8,31	0,61	396,90	140,28
870	8,16	0,48	202,20	71,47	8,17	0,63	218,20	77,12	8,41	0,62	395,70	139,86
880	8,27	0,47	201,70	71,29	8,28	0,63	216,80	76,63	8,51	0,62	395,00	139,61
890	8,38	0,47	200,90	71,01	8,37	0,63	215,40	76,13	8,61	0,62	393,90	139,22
900	8,48	0,47	200,70	70,94	8,47	0,64	213,80	75,57	8,71	0,62	393,00	138,90
910	8,57	0,47	200,60	70,90	8,57	0,64	212,60	75,14	8,80	0,62	392,40	138,69
920	8,68	0,47	200,30	70,79	8,67	0,64	211,20	74,65	8,91	0,62	391,30	138,30
930	8,78	0,47	199,80	70,62	8,77	0,64	209,90	74,19	9,01	0,63	390,20	137,91
940	8,86	0,47	199,20	70,41	8,86	0,64	208,60	73,73	9,10	0,63	388,40	137,28
950	8,96	0,48	199,10	70,37	8,96	0,65	207,10	73,20	9,20	0,63	386,40	136,57
960	9,07	0,48	198,70	70,23	9,06	0,65	205,70	72,70	9,31	0,64	385,30	136,18
970	9,18	0,48	198,30	70,09	9,16	0,65	204,10	72,14	9,41	0,64	383,80	135,65
980	9,26	0,48	197,70	69,88	9,26	0,65	202,70	71,64	9,50	0,64	382,40	135,16
990	9,36	0,48	197,70	69,88	9,36	0,66	201,00	71,04	9,59	0,64	380,60	134,52
1000	9,46	0,48	197,30	69,73	9,45	0,66	200,00	70,69	9,70	0,65	378,30	133,71
1010	9,56	0,48	196,90	69,59	9,55	0,66	198,40	70,12	9,80	0,65	377,60	133,46
1020	9,66	0,48	196,30	69,38	9,65	0,67	197,60	69,84	9,90	0,65	377,00	133,25
1030	9,71	0,48	188,20	66,52	9,72	0,67	190,20	67,22	9,97	0,65	360,50	127,42
1040	9,71	0,48	183,80	64,96	9,72	0,67	188,40	66,59	9,97	0,65	350,80	123,99
1050	9,71	0,48	181,70	64,22	9,72	0,67	188,20	66,52	9,97	0,66	346,70	122,54
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

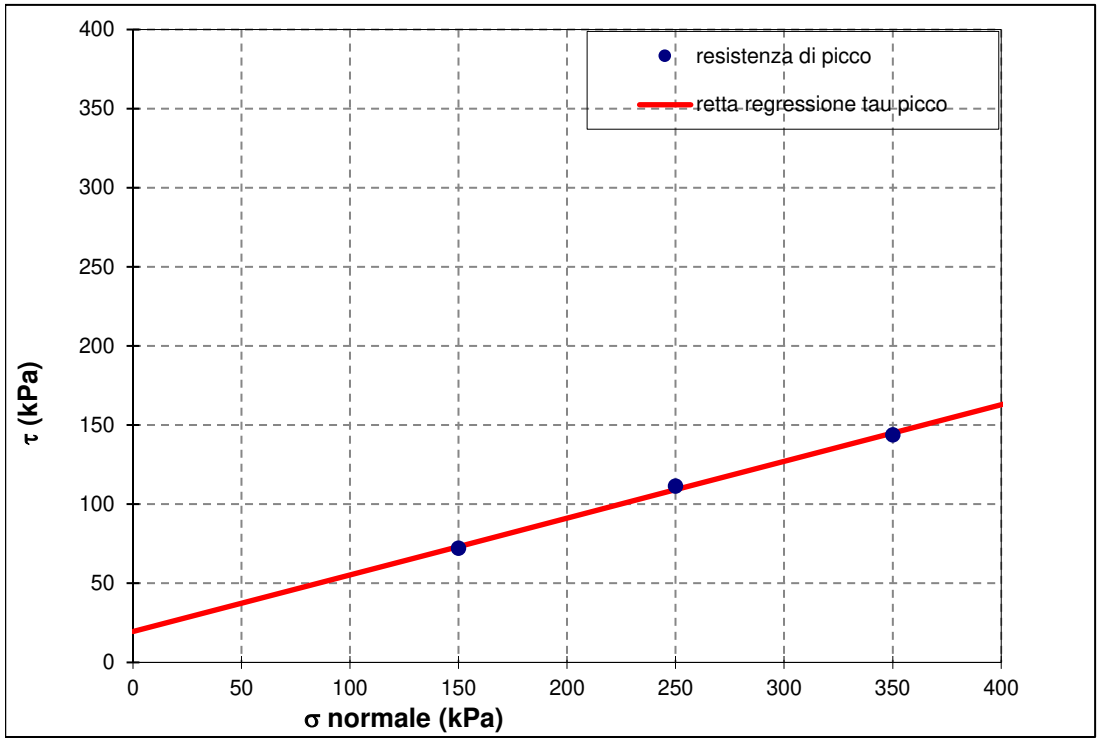
PROVA DI TAGLIO DIRETTO '- INVILUPPO A ROTTURA τ – σ

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO:	S01
CAMPIONE:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Caratteristiche dei provini

Provino	H_0	A_0	γn	γd	W_0	W_f	σ normale	τ di picco	Sh	Velocità
	mm	cm^2	Mg/mc	Mg/mc	%	%	[kPa]	[kPa]	mm	mm/min
T1	19,76	28,29	1,52	0,91	67,59	67,31	150,0	72,10	7,10	0,01
T2	19,76	28,29	1,75	1,17	49,34	45,64	250,0	111,40	3,53	0,01
T3	19,76	28,29	1,63	1,03	58,44	54,82	350,0	143,74	7,02	0,01

c' picco =	ϕ' picco =
kPa	°
19,53	**19,71**



Note

ALTAIR S.R.L.

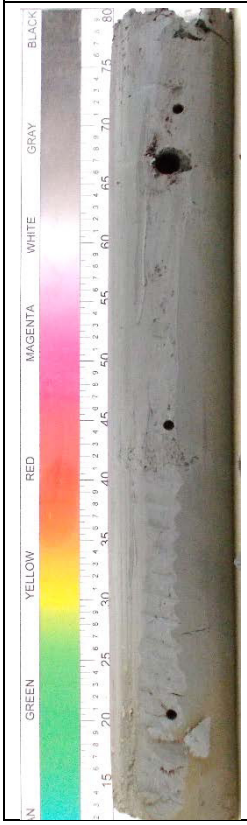
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2568	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S02
CAMPIONE:	CI1 IN CLASSE Q4-Q5
PROFONDITÀ:	6,00-6,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**		0.70 lunghezza	0.090 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**		10 YR 5/1 gray	
Lunghezza Campione (m)	0.53	**Odore**		inodore	
Reazione HCL	nessuna	**Consistenza**		media	
Condizioni di Umidità	umido	**Plasticità**	**Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**		edo	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Limo con Argilla debolmente Sabbioso di colore grigio scuro.
	1.0		
		1.0	
	1.0		
	1.0		
			-

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2552**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435)*

data inizio prova	**07/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S02
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

Dati provino

Sezione provino	2,00E-03	m2	Peso di volume iniziale	1,85	Mg/mc
Altezza iniziale	0,020	m	Peso di volume finale	2,59	Mg/mc
Altezza finale	0,012	m	Peso di volume secco	1,22	Mg/mc
Num tara 1	1		Contenuto acqua iniziale	51,18	%
Peso tara 1	5,78E-05	Mg	Contenuto acqua finale	27,05	%
Tara + p. umido iniziale	1,32E-04	Mg	Saturazione iniziale	100,00	%
Num tara 2	2		Saturazione finale	100,00	%
Peso tara 2	4,13E-05	Mg	Indice dei vuoti iniziale	1,21	-
Tara + p. umido finale	1,03E-04	Mg	Indice dei vuoti finale	0,33	-
Tara + p. provino secco	9,02E-05	Mg	Peso vol. secco finale	2,04	Mg/mc
Peso specifico grani	2,700	Mg/mc			

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2552	**del 24/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO (ASTM D2435) - Letture cedimenti in funzione del tempo in scala logaritmica

dt	Passo 1	Passo 2	Passo 3	Passo 4	Passo 5	Passo 6	Passo 7	Passo 8	Passo 9	Passo 10	Passo 11	Passo 12	Passo 13	Passo 14	Passo 15	Passo 16	Passo 17	Passo 18	Passo 19	Passo 20	Passo 21	Passo 22
	12,5 kPa	25 kPa	50 kPa	100 kPa	200 kPa	400 kPa	800 kPa	1600 kPa	3200 kPa	6400 kPa	1600 kPa	400 kPa	100 kPa									
	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH
min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0,00	0,0000																					
0,05	0,4386	0,53	0,653	0,974	1,754	2,54	3,64	4,57	5,912	7,09	7,99	7,68	7,19									
0,09	0,4677	0,53	0,659	1,003	1,763	2,55	3,68	4,60	5,917	7,09	7,99	7,68	7,18									
0,14	0,4719	0,53	0,663	1,022	1,774	2,59	3,70	4,62	5,933	7,10	7,99	7,66	7,16									
0,25	0,4739	0,53	0,668	1,041	1,792	2,62	3,73	4,65	5,940	7,10	7,97	7,62	7,15									
0,42	0,4778	0,53	0,675	1,064	1,815	2,65	3,75	4,69	5,976	7,17	7,93	7,60	7,14									
0,71	0,4804	0,53	0,683	1,089	1,843	2,70	3,78	4,74	6,025	7,21	7,85	7,59	7,13									
1,21	0,4830	0,54	0,698	1,120	1,876	2,75	3,83	4,79	6,091	7,26	7,82	7,57	7,12									
2,05	0,4876	0,54	0,718	1,154	1,919	2,82	3,89	4,88	6,179	7,32	7,80	7,55	7,10									
3,49	0,4928	0,54	0,733	1,177	1,963	2,90	3,94	4,99	6,283	7,40	7,78	7,52	7,08									
5,93	0,4971	0,55	0,754	1,294	2,039	3,02	4,05	5,12	6,421	7,50	7,76	7,48	7,05									
10,08	0,4994	0,55	0,785	1,369	2,114	3,14	4,15	5,27	6,558	7,61	7,74	7,44	7,02									
17,14	0,5016	0,56	0,801	1,447	2,189	3,24	4,24	5,41	6,683	7,72	7,72	7,39	6,97									
29,13	0,5062	0,57	0,822	1,516	2,237	3,33	4,31	5,51	6,787	7,81	7,71	7,33	6,91									
49,52	0,5082	0,57	0,840	1,555	2,266	3,38	4,35	5,58	6,839	7,87	7,70	7,28	6,83									
84,19	0,5095	0,57	0,849	1,591	2,297	3,43	4,39	5,62	6,876	7,91	7,70	7,25	6,75									
143,12	0,5134	0,57	0,857	1,599	2,317	3,46	4,41	5,65	6,901	7,93	7,70	7,23	6,68									
243,30	0,5137	0,57	0,861	1,607	2,333	3,49	4,42	5,68	6,928	7,96	7,69	7,22	6,63									
413,62	0,5147	0,59	0,866	1,612	2,347	3,52	4,43	5,72	6,950	7,98	7,69	7,20	6,60									
703,15	0,5147	0,59	0,869	1,614	2,357	3,53	4,45	5,74	6,969	7,99	7,69	7,20	6,58									
1195,35	0,5160		0,894	1,615	2,369		4,46		6,982		7,69		6,57									
2032,12					2,387																	
3454,60					2,398																	
5872,82																						
ε (%)	2,485	2,824	4,244	8,036	11,316	17,385	21,817	27,913	34,139	39,373	38,441	35,996	32,889									
e	1,153	1,146	1,114	1,031	0,958	0,824	0,726	0,592	0,454	0,339	0,359	0,413	0,482									

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

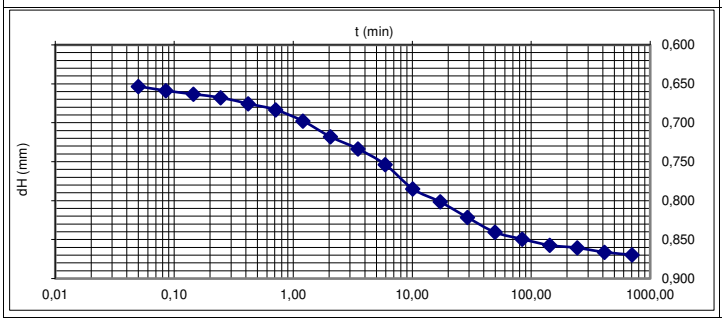
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2552**	**del 24/07/2021**	**Accettazione 2840**	**del 05/07/2021**

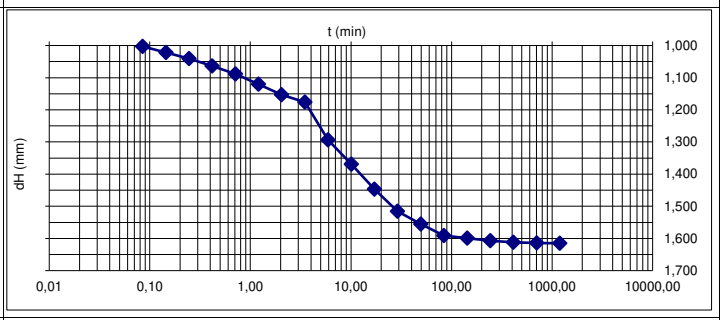
PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Diagrammi cedimento- log del tempo*

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S02
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

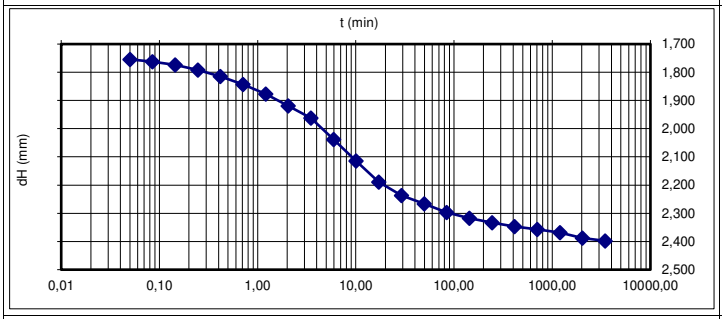
Passo 3 - σv 50 kPa



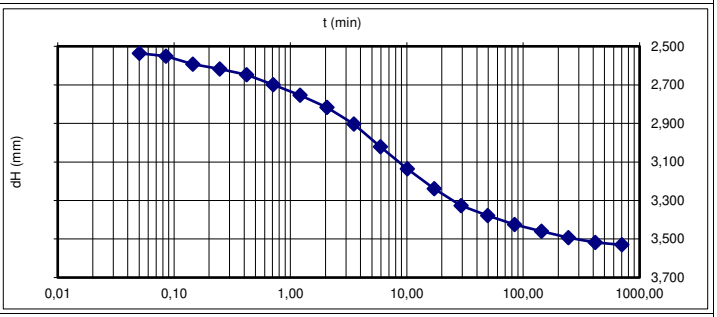
Passo 4 - σv 100 kPa



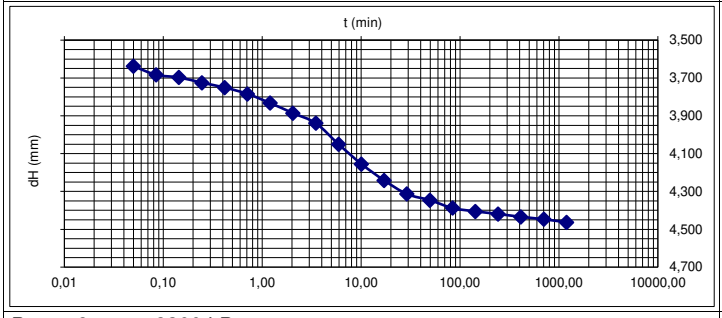
Passo 5 - σv 200 kPa



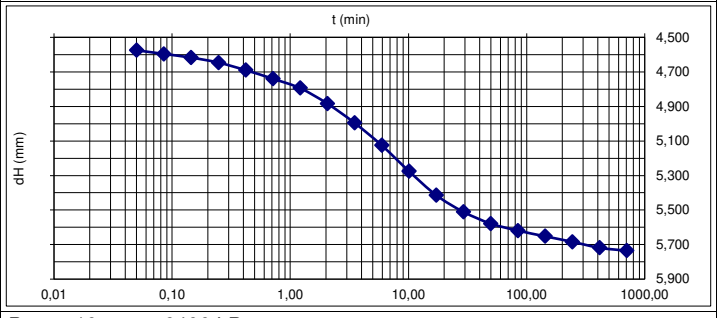
Passo 6 - σv 400 kPa



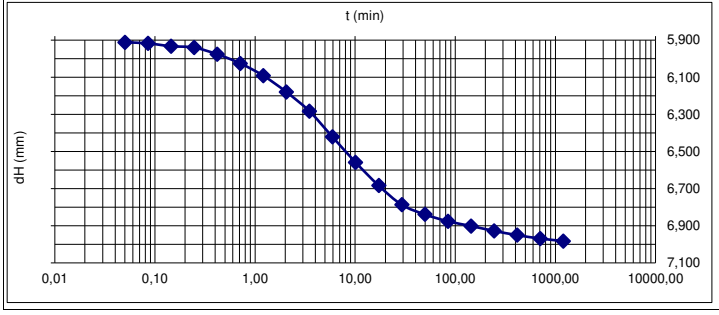
Passo 7 - σv 800 kPa



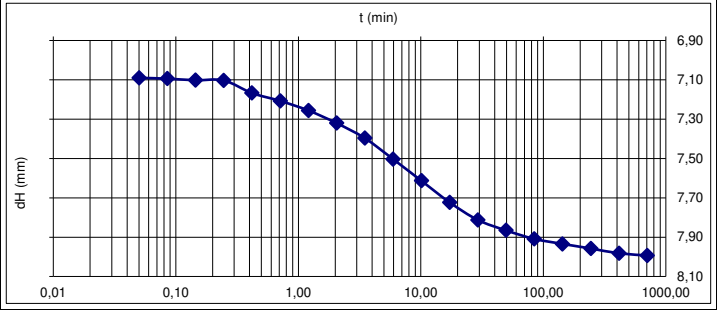
Passo 8 - σv 1600 kPa



Passo 9 - σv 3200 kPa



Passo 10 - σv 6400 kPa

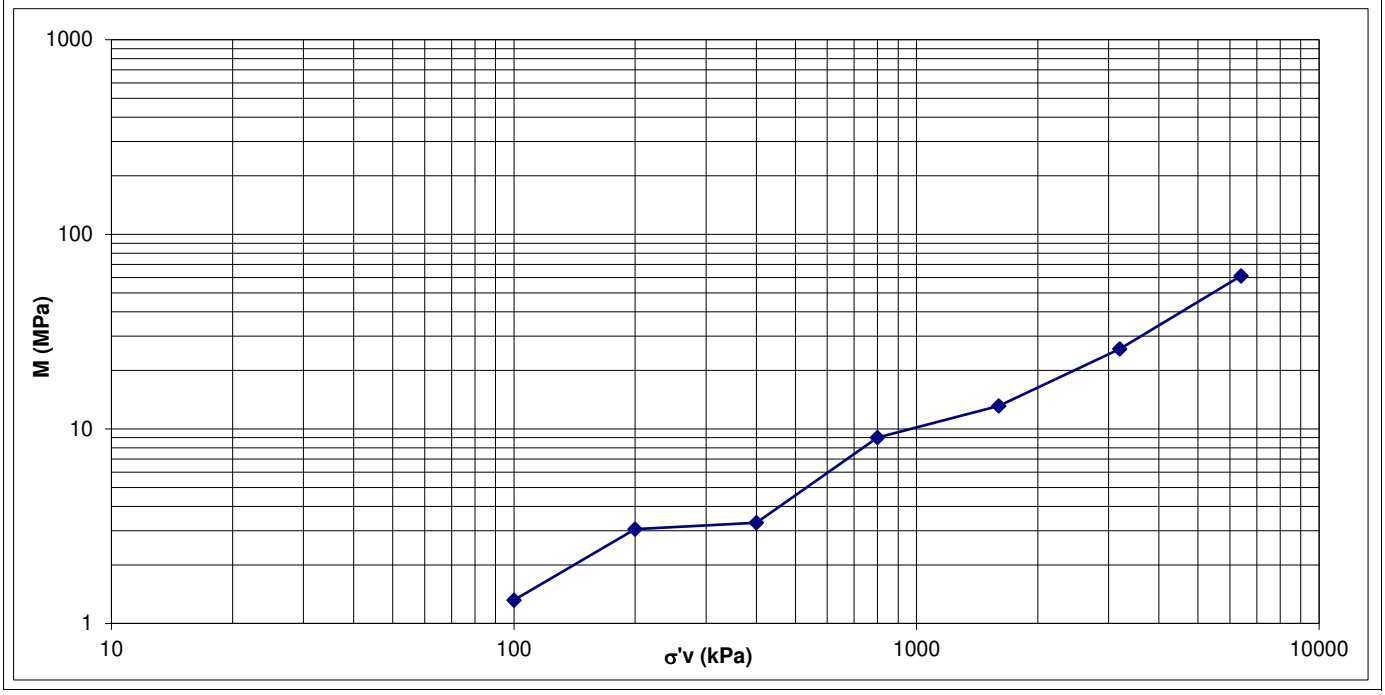


Certificato	**2552**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Tabella riassuntiva*

Passo	σ'_v [kPa]	ε [%]	e [-]	M [MPa]	C_v [cmq/sec]	K [m/sec]	C_α [%]	a_v [MPa-1]
1	12,5	2,485	1,153					
2	25	2,824	1,146	3,68938	8,05E-04	2,14E-10		
3	50	4,244	1,114	1,76046	1,05E-03	5,86E-10		
4	100	8,036	1,031	1,31862	4,95E-04	3,68E-10		
5	200	11,316	0,958	3,04886	6,08E-04	1,96E-10		
6	400	17,385	0,824	3,29520	7,04E-04	2,10E-10		
7	800	21,817	0,726	9,02552	5,56E-04	6,04E-11		
8	1600	27,913	0,592	13,12426	4,08E-04	3,05E-11		
9	3200	34,139	0,454	25,69886	3,52E-04	1,34E-11		
10	6400	39,373	0,339	61,14145	3,02E-04	4,84E-12		
11	1600	38,441	0,359					
12	400	35,996	0,413					
13	100	32,889	0,482					

Grafico di confronto tra la pressione verticale applicata **σ' v** (kPa) e il modulo edometrico **M**

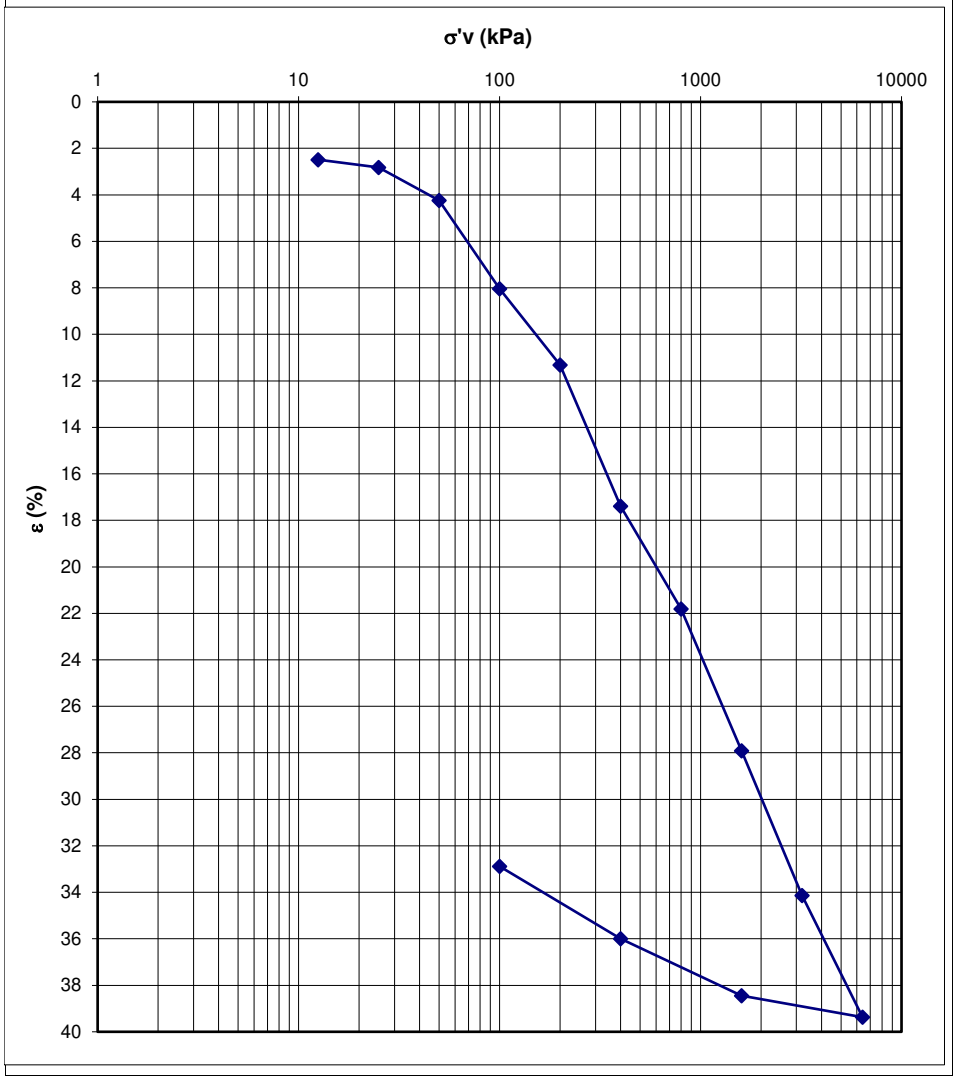


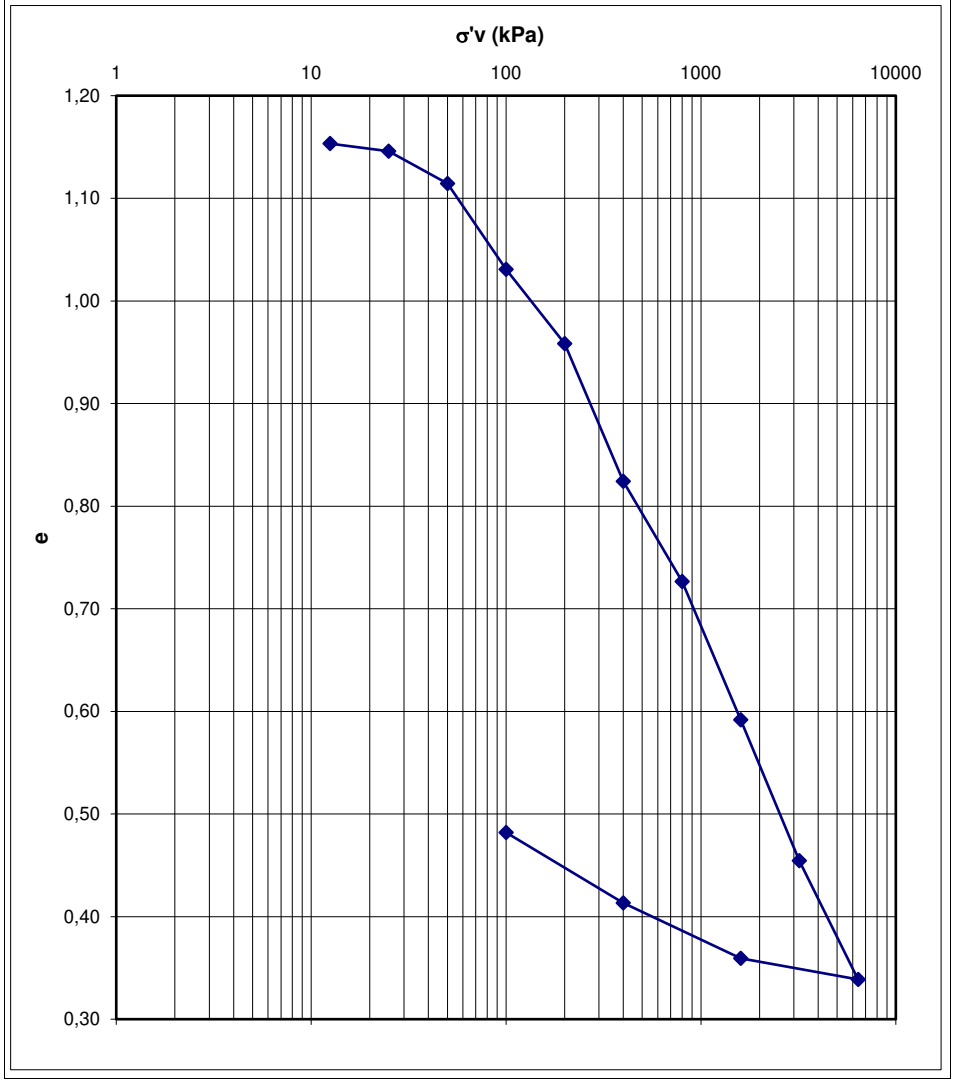
ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2552**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Grafici tra la pressione verticale* ***σ' v*** *(kPa), la deformazione verticale* ***ε*** *e l'indice dei vuoti* ***e***





ALTAIR S.R.L.

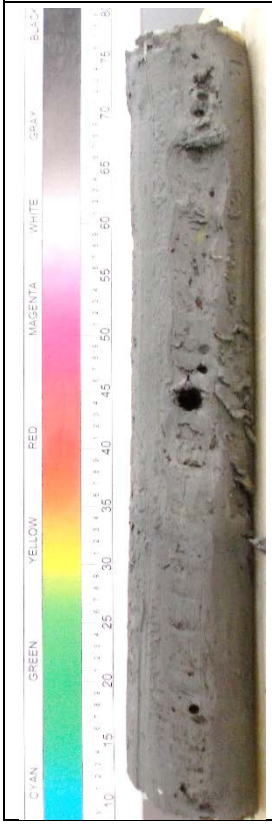
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2569	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S02
CAMPIONE:	CI2 IN CLASSE Q4-Q5
PROFONDITÀ:	12,00-12,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**		0.70 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**		2.5 Y 3/1 very dark gray	
Lunghezza Campione (m)	0.52	**Odore**		inodore	
Reazione HCL	nessuna	**Consistenza**		media	
Condizioni di Umidità	umido	**Plasticità**	**Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**		taglio	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
	2.5	0.5	Limo con Argilla Sabbioso debolmente Ghiaioso di colore grigio scuro.
	5.0		
			-

Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO Laboratorio: Via A. Martini, 11 20092 Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281 E- E-mail:info@geoaltair.it
P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO

ALTAIR S.R.L.

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2547	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO *(ASTM D3080)*

data inizio prova	08/07/2021	data fine prova	13/07/2021

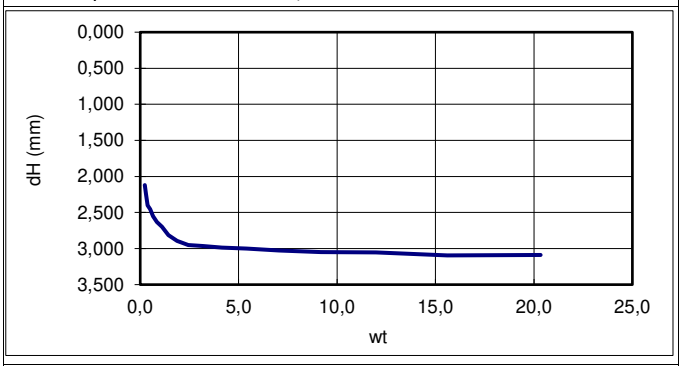
COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
CAMPIONE:	S02
SONDAGGIO:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Dati Provini		σ_v (kPa)	σ_v (kPa)	σ_v (kPa)
		150,0	250,0	350,0
Sezione provino	mmq	28293,19	28293,19	28293,19
Altezza iniziale	mm	19,76	19,76	19,76
Altezza finale	mm	16,40	14,77	13,68
Peso tara 1	Mg	4,47E-05	4,47E-05	4,47E-05
Tara + p. umido iniziale	Mg	1,29E-04	1,28E-04	1,29E-04
Peso tara 2	Mg	4,14E-05	4,39E-05	4,65E-05
Tara + p. umido finale	Mg	1,21E-04	1,20E-04	1,18E-04
Tara + p. provino secco	Mg	8,68E-05	8,81E-05	9,11E-05
Peso di volume iniziale	Mg/mc	1,51	1,50	1,51
Peso di volume finale	Mg/mc	1,72	1,81	1,85
Peso di volume secco	Mg/mc	0,81	0,79	0,80
Contenuto acqua iniziale	%	85,43	89,52	89,37
Contenuto acqua finale	%	75,64	71,06	60,60
Saturazione iniziale	%	99,17	100,00	100,00
Saturazione finale	%	100,00	100,00	100,00
Indice dei vuoti iniziale	-	2,33	2,41	2,38
Indice dei vuoti finale	-	1,76	1,55	1,34
Peso vol. secco finale	Mg/mc	0,98	1,06	1,15
Altezza fine consolidazione	mm	16,66	15,44	14,28
Valore t_{100}	min	5,20	7,40	8,60

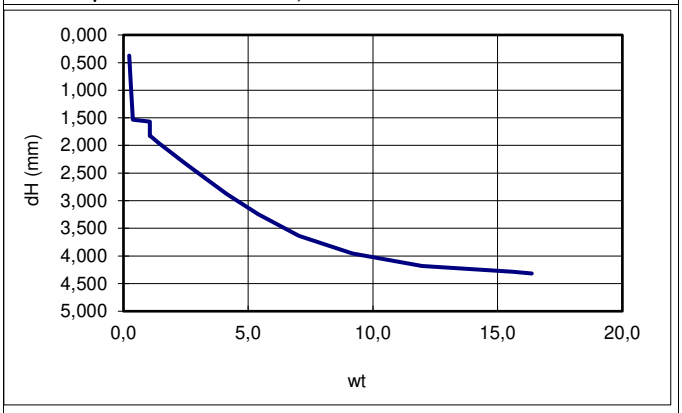
Letture Tempi - Cedimenti		σ_v (KpA)	σ_v (KpA)	σ_v (KpA)
		150,0	250,0	350,0
[min]	letture	dH	dH	dH
	n.	[mm]	[mm]	[mm]
0,05	1	0,00	0,00	0,00
0,09	2	2,25	0,94	4,75
0,15	3	2,40	1,53	4,80
0,25	4	2,46	1,57	4,91
0,42	5	2,55	1,57	4,99
0,71	6	2,63	1,83	5,03
1,21	7	2,70	1,84	5,10
2,06	8	2,82	1,96	5,20
3,49	9	2,90	2,11	5,30
5,93	10	2,95	2,31	5,36
10,08	11	2,97	2,56	5,38
17,14	12	2,99	2,88	5,40
29,14	13	3,00	3,25	5,42
49,53	14	3,03	3,64	5,43
84,19	15	3,05	3,96	5,46
143,12	16	3,06	4,18	5,46
243,31	17	3,10	4,29	5,48
413,62	18	3,09	4,32	5,48
0,00	19	0,00	0,00	0,00
0,00	20	0,00	0,00	0,00
0,00	21	0,00	0,00	0,00

Grafici Cedimenti dh/√t

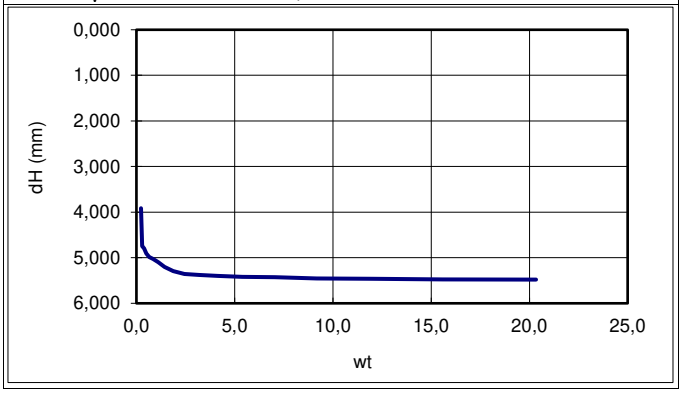
σ_v 150,0 kPa



σ_v 250,0 kPa



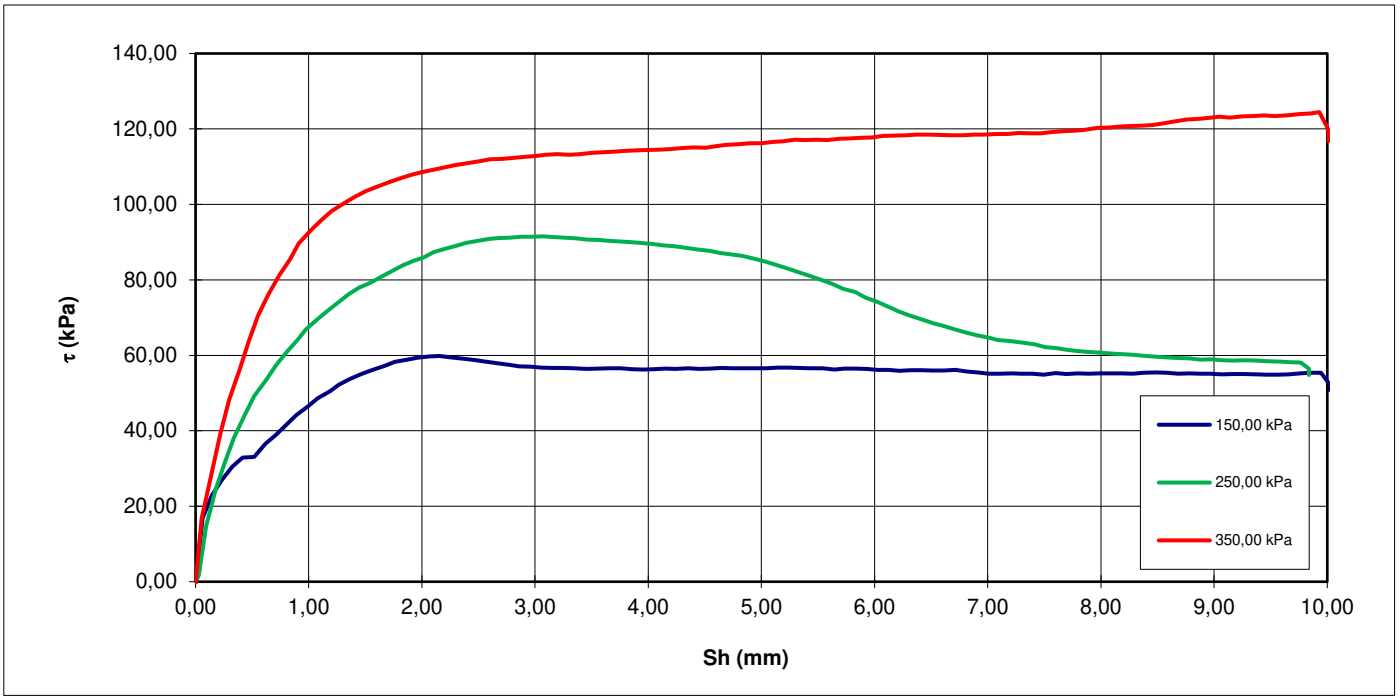
σ_v 350,0 kPa



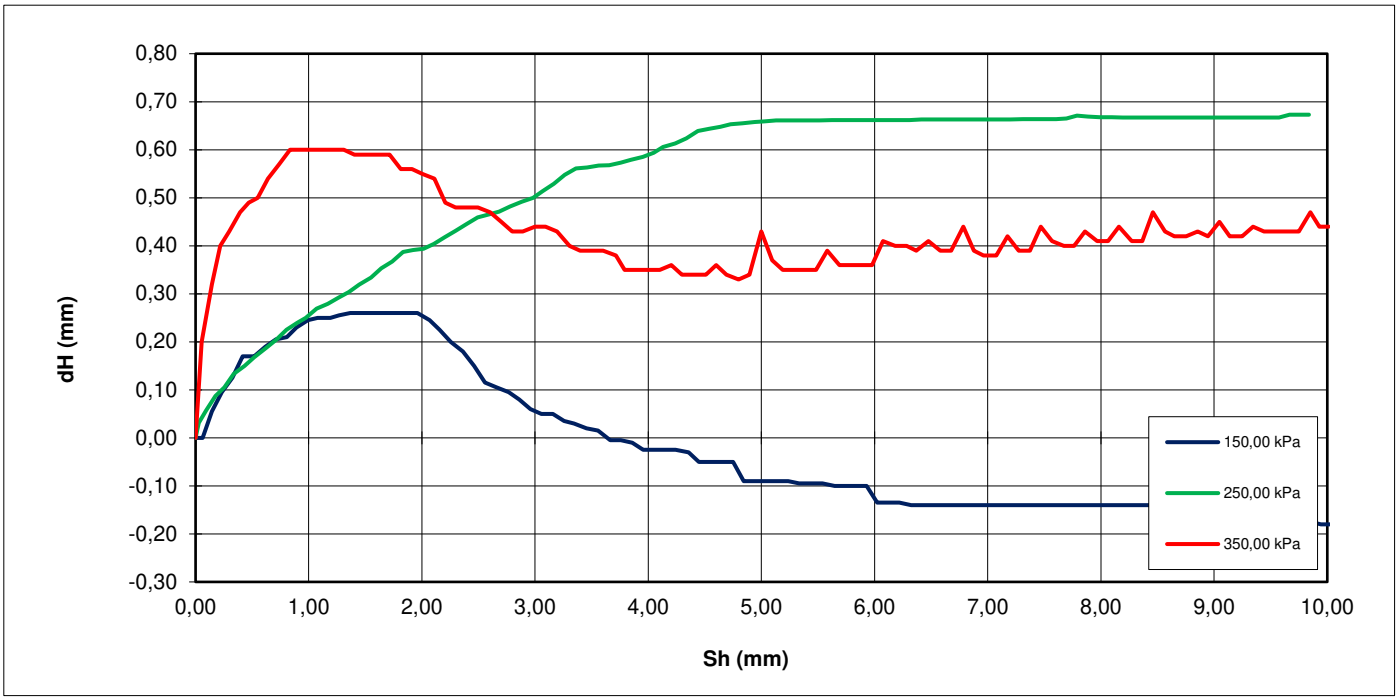
IL DIRETTORE DEL LABORATORIO:

Certificato 2547	del 23/07/2021	Accettazione 2840	del 05/07/2021

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICO (t Sh) ASTM D3080



PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICI (deformazione verticale/scorrimento orizzontale) ASTM D3080



Certificato 2547	del 23/07/2021	Accettazione 2840	del 05/07/2021

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
0	0,00	0,00	-0,54	-0,19	0,00	0,00	-0,30	-0,11	0,00	0,00	-0,95	-0,34
10	0,06	0,00	47,83	16,90	0,03	0,03	4,80	1,70	0,05	0,20	47,46	16,78
20	0,14	0,06	64,84	22,92	0,09	0,06	41,70	14,74	0,14	0,32	82,21	29,06
30	0,23	0,10	76,29	26,96	0,17	0,09	68,50	24,21	0,22	0,40	110,64	39,10
40	0,33	0,13	86,35	30,52	0,26	0,11	88,60	31,31	0,30	0,43	136,48	48,24
50	0,42	0,17	93,20	32,94	0,34	0,13	107,40	37,96	0,39	0,47	160,00	56,55
60	0,52	0,17	93,52	33,05	0,43	0,15	124,70	44,07	0,47	0,49	180,34	63,74
70	0,62	0,19	103,36	36,53	0,52	0,17	139,20	49,20	0,55	0,50	198,90	70,30
80	0,71	0,21	110,21	38,95	0,62	0,19	151,20	53,44	0,64	0,54	214,74	75,90
90	0,81	0,21	118,13	41,75	0,71	0,20	162,20	57,33	0,74	0,57	229,70	81,19
100	0,89	0,23	124,98	44,17	0,80	0,23	172,00	60,79	0,83	0,60	241,60	85,39
110	0,99	0,25	131,50	46,48	0,90	0,24	181,10	64,01	0,91	0,60	253,71	89,67
120	1,08	0,25	137,60	48,63	0,97	0,25	189,20	66,87	1,02	0,60	263,64	93,18
130	1,19	0,25	142,95	50,53	1,07	0,27	196,20	69,35	1,12	0,60	271,39	95,92
140	1,27	0,26	147,87	52,26	1,17	0,28	203,30	71,85	1,21	0,60	278,19	98,32
150	1,37	0,26	152,15	53,78	1,26	0,29	209,50	74,05	1,31	0,60	283,63	100,25
160	1,47	0,26	155,90	55,10	1,36	0,30	215,80	76,27	1,40	0,59	288,46	101,95
170	1,57	0,26	159,22	56,27	1,45	0,32	220,50	77,93	1,51	0,59	292,94	103,54
180	1,68	0,26	162,00	57,26	1,55	0,33	224,30	79,28	1,61	0,59	296,41	104,76
190	1,76	0,26	164,89	58,28	1,64	0,35	228,70	80,83	1,71	0,59	299,81	105,97
200	1,87	0,26	166,60	58,88	1,74	0,37	233,00	82,35	1,81	0,56	302,60	106,95
210	1,96	0,26	167,99	59,37	1,83	0,39	237,30	83,87	1,91	0,56	305,18	107,86
220	2,07	0,25	168,95	59,72	1,92	0,39	240,50	85,00	2,00	0,55	307,16	108,56
230	2,16	0,23	169,27	59,83	2,02	0,39	243,20	85,96	2,11	0,54	309,20	109,28
240	2,26	0,20	168,31	59,49	2,11	0,40	247,20	87,37	2,21	0,49	310,83	109,86
250	2,36	0,18	167,35	59,15	2,20	0,42	249,60	88,22	2,30	0,48	312,53	110,46
260	2,46	0,15	166,39	58,81	2,30	0,43	251,80	89,00	2,40	0,48	313,89	110,94
270	2,56	0,12	164,99	58,32	2,39	0,45	254,20	89,84	2,50	0,48	315,18	111,40
280	2,66	0,11	163,82	57,90	2,49	0,46	255,70	90,38	2,60	0,47	316,74	111,95
290	2,77	0,10	162,64	57,48	2,59	0,47	257,00	90,83	2,70	0,45	317,08	112,07
300	2,86	0,08	161,57	57,11	2,68	0,47	257,80	91,12	2,80	0,43	317,76	112,31
310	2,96	0,06	161,36	57,03	2,78	0,48	258,00	91,19	2,89	0,43	318,58	112,60
320	3,06	0,05	160,61	56,77	2,88	0,49	258,60	91,40	3,00	0,44	319,26	112,84
330	3,16	0,05	160,39	56,69	2,98	0,50	258,80	91,47	3,09	0,44	320,14	113,15
340	3,26	0,04	160,39	56,69	3,07	0,51	259,00	91,54	3,20	0,43	320,55	113,30
350	3,34	0,03	160,18	56,61	3,17	0,53	258,50	91,36	3,30	0,40	320,21	113,18
360	3,45	0,02	159,64	56,42	3,26	0,55	257,90	91,15	3,40	0,39	320,55	113,30
370	3,56	0,02	159,86	56,50	3,36	0,56	257,50	91,01	3,50	0,39	321,50	113,63
380	3,66	-0,01	160,07	56,58	3,46	0,56	256,60	90,69	3,60	0,39	322,05	113,83
390	3,76	-0,01	159,97	56,54	3,56	0,57	256,30	90,59	3,71	0,38	322,59	114,02
400	3,86	-0,01	159,32	56,31	3,66	0,57	255,60	90,34	3,79	0,35	323,14	114,21
410	3,96	-0,03	159,22	56,27	3,76	0,57	255,00	90,13	3,90	0,35	323,54	114,35
420	4,05	-0,03	159,43	56,35	3,85	0,58	254,60	89,99	4,00	0,35	323,75	114,43
430	4,15	-0,03	159,75	56,46	3,95	0,59	253,80	89,70	4,10	0,35	324,09	114,55
440	4,24	-0,03	159,64	56,42	4,05	0,59	253,30	89,53	4,20	0,36	324,56	114,71
450	4,36	-0,03	159,97	56,54	4,13	0,61	252,20	89,14	4,30	0,34	325,31	114,98
460	4,45	-0,05	159,54	56,39	4,24	0,61	251,40	88,86	4,40	0,34	325,72	115,12
470	4,55	-0,05	159,75	56,46	4,34	0,62	250,40	88,50	4,51	0,34	325,52	115,05
480	4,65	-0,05	160,29	56,65	4,44	0,64	249,20	88,08	4,60	0,36	326,60	115,44
490	4,75	-0,05	160,18	56,61	4,54	0,64	248,20	87,72	4,69	0,34	327,56	115,77
500	4,84	-0,09	160,18	56,61	4,64	0,65	246,50	87,12	4,80	0,33	328,10	115,96
510	4,94	-0,09	160,07	56,58	4,73	0,65	245,40	86,73	4,90	0,34	328,85	116,23
520	5,05	-0,09	160,18	56,61	4,83	0,66	244,30	86,35	5,00	0,43	328,71	116,18
530	5,14	-0,09	160,50	56,73	4,94	0,66	242,20	85,60	5,09	0,37	329,87	116,59
540	5,24	-0,09	160,50	56,73	5,03	0,66	240,20	84,90	5,19	0,35	330,21	116,71
550	5,33	-0,10	160,39	56,69	5,13	0,66	237,50	83,94	5,29	0,35	331,43	117,14
560	5,43	-0,10	160,07	56,58	5,23	0,66	234,90	83,02	5,38	0,35	331,30	117,09
570	5,54	-0,10	160,18	56,61	5,32	0,66	232,30	82,10	5,48	0,35	331,50	117,17
580	5,65	-0,10	159,22	56,27	5,42	0,66	229,60	81,15	5,58	0,39	331,30	117,09
590	5,73	-0,10	159,75	56,46	5,52	0,66	226,90	80,20	5,69	0,36	332,11	117,38
600	5,83	-0,10	159,86	56,50	5,62	0,66	223,50	78,99	5,78	0,36	332,52	117,53
610	5,93	-0,10	159,64	56,42	5,72	0,66	219,60	77,62	5,88	0,36	332,93	117,67
620	6,02	-0,14	158,79	56,12	5,83	0,66	217,10	76,73	5,98	0,36	333,13	117,74
630	6,12	-0,14	158,79	56,12	5,92	0,66	213,10	75,32	6,08	0,41	334,36	118,18

Certificato 2547 **del 23/07/2021** **Accettazione 2840** **del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
640	6,22	-0,14	158,15	55,90	6,02	0,66	209,90	74,19	6,18	0,40	334,63	118,27
650	6,32	-0,14	158,57	56,05	6,12	0,66	206,30	72,92	6,28	0,40	334,76	118,32
660	6,41	-0,14	158,68	56,08	6,21	0,66	202,80	71,68	6,37	0,39	335,38	118,54
670	6,51	-0,14	158,36	55,97	6,31	0,66	199,60	70,55	6,48	0,41	335,38	118,54
680	6,61	-0,14	158,36	55,97	6,41	0,66	196,80	69,56	6,58	0,39	335,10	118,44
690	6,72	-0,14	158,90	56,16	6,52	0,66	194,00	68,57	6,68	0,39	334,90	118,37
700	6,81	-0,14	157,61	55,71	6,61	0,66	191,70	67,75	6,78	0,44	334,76	118,32
710	6,91	-0,14	156,97	55,48	6,71	0,66	189,00	66,80	6,88	0,39	335,31	118,51
720	7,01	-0,14	155,90	55,10	6,80	0,66	187,00	66,09	6,96	0,38	335,38	118,54
730	7,10	-0,14	156,01	55,14	6,90	0,66	184,80	65,32	7,08	0,38	335,72	118,66
740	7,21	-0,14	156,11	55,18	7,00	0,66	183,10	64,72	7,17	0,42	335,72	118,66
750	7,30	-0,14	156,01	55,14	7,09	0,66	181,30	64,08	7,27	0,39	336,46	118,92
760	7,39	-0,14	156,01	55,14	7,20	0,66	180,40	63,76	7,37	0,39	336,33	118,87
770	7,49	-0,14	155,36	54,91	7,31	0,66	179,20	63,34	7,47	0,44	336,26	118,85
780	7,60	-0,14	156,54	55,33	7,41	0,66	178,10	62,95	7,57	0,41	337,14	119,16
790	7,70	-0,14	155,79	55,06	7,51	0,66	176,00	62,21	7,67	0,40	337,96	119,45
800	7,79	-0,14	156,11	55,18	7,61	0,66	175,10	61,89	7,76	0,40	338,16	119,52
810	7,90	-0,14	156,01	55,14	7,70	0,67	174,00	61,50	7,86	0,43	338,98	119,81
820	7,98	-0,14	156,33	55,25	7,79	0,67	173,10	61,18	7,97	0,41	340,20	120,24
830	8,08	-0,14	156,11	55,18	7,88	0,67	172,20	60,86	8,06	0,41	340,61	120,39
840	8,18	-0,14	156,11	55,18	7,99	0,67	171,90	60,76	8,16	0,44	341,29	120,63
850	8,28	-0,14	155,90	55,10	8,09	0,67	171,10	60,47	8,27	0,41	341,77	120,80
860	8,38	-0,14	156,65	55,37	8,19	0,67	170,70	60,33	8,37	0,41	341,90	120,84
870	8,48	-0,14	156,86	55,44	8,29	0,67	170,20	60,16	8,46	0,47	342,52	121,06
880	8,58	-0,14	156,65	55,37	8,38	0,67	169,40	59,87	8,57	0,43	344,01	121,59
890	8,68	-0,14	156,01	55,14	8,49	0,67	168,80	59,66	8,65	0,42	345,17	122,00
900	8,78	-0,14	156,33	55,25	8,58	0,67	168,20	59,45	8,75	0,42	346,46	122,45
910	8,88	-0,14	156,01	55,14	8,69	0,67	167,80	59,31	8,86	0,43	347,07	122,67
920	8,97	-0,14	155,90	55,10	8,78	0,67	167,40	59,17	8,95	0,42	347,68	122,89
930	9,07	-0,18	155,58	54,99	8,88	0,67	166,50	58,85	9,05	0,45	348,77	123,27
940	9,17	-0,18	155,69	55,03	8,98	0,67	166,70	58,92	9,14	0,42	347,89	122,96
950	9,26	-0,18	155,79	55,06	9,07	0,67	166,10	58,71	9,25	0,42	348,91	123,32
960	9,37	-0,18	155,58	54,99	9,17	0,67	165,80	58,60	9,35	0,44	349,18	123,41
970	9,46	-0,19	155,15	54,84	9,27	0,67	166,00	58,67	9,44	0,43	349,72	123,61
980	9,56	-0,19	155,15	54,84	9,38	0,67	165,80	58,60	9,53	0,43	349,32	123,46
990	9,66	-0,19	155,47	54,95	9,47	0,67	165,40	58,46	9,64	0,43	349,59	123,56
1000	9,76	-0,18	156,33	55,25	9,57	0,67	165,10	58,35	9,75	0,43	350,54	123,90
1010	9,85	-0,18	156,65	55,37	9,67	0,67	164,70	58,21	9,85	0,47	351,02	124,06
1020	9,94	-0,18	156,76	55,40	9,77	0,67	164,50	58,14	9,93	0,44	352,17	124,47
1030	10,02	-0,18	148,09	52,34	9,84	0,67	159,70	56,44	10,01	0,44	339,12	119,86
1040	10,02	-0,18	144,88	51,21	9,84	0,67	156,70	55,38	10,01	0,44	332,66	117,57
1050	10,02	-0,18	143,70	50,79	9,84	0,67	155,10	54,82	10,01	0,44	330,55	116,83
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

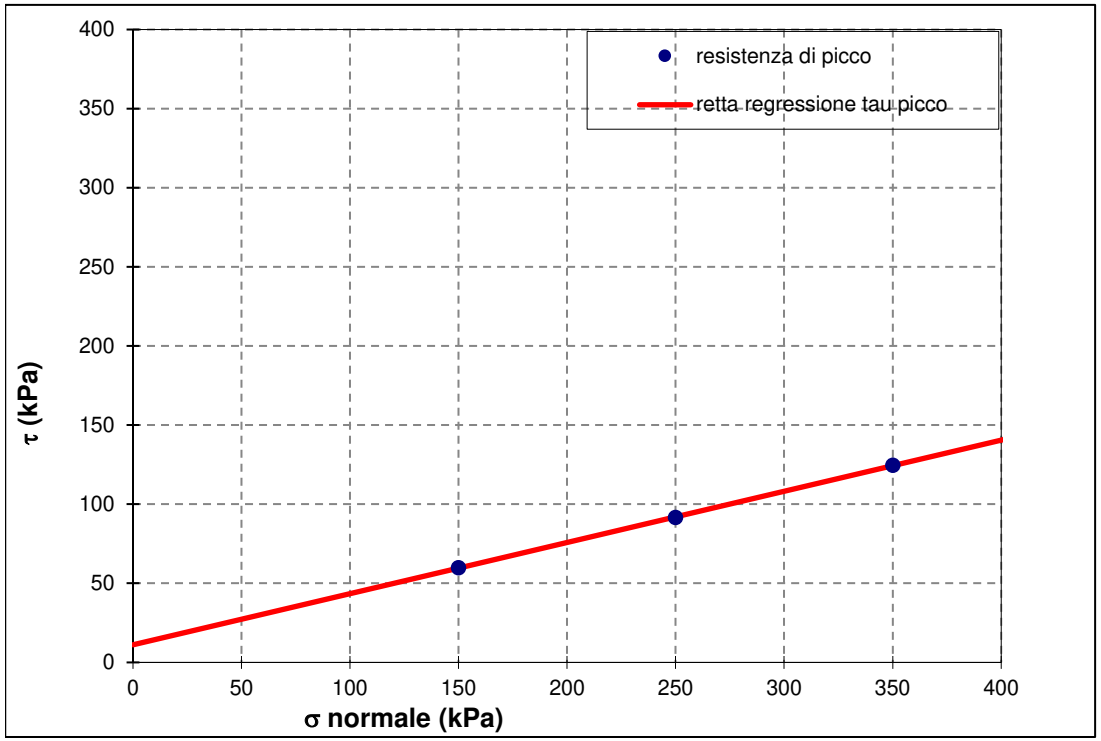
PROVA DI TAGLIO DIRETTO '- INVILUPPO A ROTTURA τ – σ

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO:	S02
CAMPIONE:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Caratteristiche dei provini

Provino	H_0	A_0	γn	γd	W_0	W_f	σ normale	τ di picco	Sh	Velocità
	mm	cm^2	Mg/mc	Mg/mc	%	%	[kPa]	[kPa]	mm	mm/min
T1	19,76	28,29	1,51	0,81	85,43	75,64	150,0	59,83	2,16	0,01
T2	19,76	28,29	1,50	0,79	89,52	71,06	250,0	91,54	3,07	0,01
T3	19,76	28,29	1,51	0,80	89,37	60,60	350,0	124,47	9,93	0,01

c' picco =	ϕ' picco =
kPa	°
11,14	**17,91**



Note

ALTAIR S.R.L.

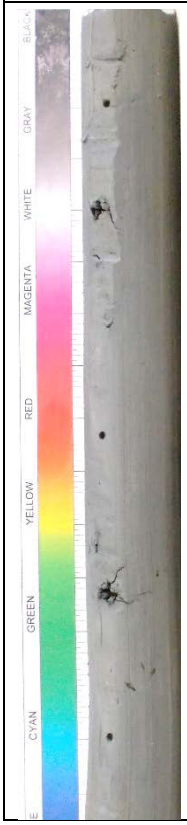
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2570	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S03
CAMPIONE:	CI1 IN CLASSE Q4-Q5
PROFONDITÀ:	6,00-6,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**	0.70 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**	2.5 Y 3/1 very dark gray	
Lunghezza Campione (m)	0.67	**Odore**	inodore	
Reazione HCL	nessuna	**Consistenza**	Molto elevata	
Condizioni di Umidità	umido	**Plasticità** / **Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**	edo	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Argilla con Limo debolmente Sabbiosa molto consistente di colore grigio.
	12.5		
		2.4	
	12.5		
		3.4	
	12.5		
			-

Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO Laboratorio: Via A. Martini, 11 20092 Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281 E- E-mail:info@geoaltair.it
P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2553**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435)*

data inizio prova	**07/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S03
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

Dati provino

Sezione provino	2,00E-03	m2	Peso di volume iniziale	2,04	Mg/mc
Altezza iniziale	0,020	m	Peso di volume finale	2,53	Mg/mc
Altezza finale	0,014	m	Peso di volume secco	1,55	Mg/mc
Num tara 1	1		Contenuto acqua iniziale	31,39	%
Peso tara 1	5,79E-05	Mg	Contenuto acqua finale	17,78	%
Tara + p. umido iniziale	1,39E-04	Mg	Saturazione iniziale	100,00	%
Num tara 2	2		Saturazione finale	100,00	%
Peso tara 2	4,15E-05	Mg	Indice dei vuoti iniziale	0,74	-
Tara + p. umido finale	1,15E-04	Mg	Indice dei vuoti finale	0,26	-
Tara + p. provino secco	1,04E-04	Mg	Peso vol. secco finale	2,15	Mg/mc
Peso specifico grani	2,700	Mg/mc			

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2553	**del** 24/07/2021	**Accettazione** 2840	**del** 05/07/2021

PROVA EDOMETRICA A GRADINI DI CARICO (ASTM D2435) - Letture cedimenti in funzione del tempo in scala logaritmica

dt	Passo 1	Passo 2	Passo 3	Passo 4	Passo 5	Passo 6	Passo 7	Passo 8	Passo 9	Passo 10	Passo 11	Passo 12	Passo 13	Passo 14	Passo 15	Passo 16	Passo 17	Passo 18	Passo 19	Passo 20	Passo 21	Passo 22
	12,5 kPa	25 kPa	50 kPa	100 kPa	200 kPa	400 kPa	800 kPa	1600 kPa	3200 kPa	6400 kPa	1600 kPa	400 kPa	100 kPa									
	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH
min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0,00	0,0000																					
0,05	0,0320	0,22	0,287	0,439	0,758	1,15	1,78	2,67	3,699	4,64	5,55	4,98	3,99									
0,09	0,0380	0,22	0,289	0,439	0,784	1,19	1,85	2,67	3,712	4,69	5,54	4,97	3,98									
0,14	0,0440	0,22	0,291	0,441	0,795	1,22	1,87	2,67	3,712	4,79	5,54	4,94	3,97									
0,25	0,0490	0,22	0,293	0,444	0,807	1,23	1,90	2,68	3,842	4,82	5,52	4,88	3,95									
0,42	0,0550	0,23	0,296	0,449	0,827	1,25	1,93	2,83	3,875	4,85	5,48	4,86	3,95									
0,71	0,0620	0,23	0,299	0,457	0,845	1,28	1,97	2,88	3,918	4,89	5,41	4,85	3,94									
1,21	0,0730	0,23	0,301	0,469	0,864	1,31	2,02	2,95	3,970	4,93	5,36	4,84	3,94									
2,05	0,0830	0,23	0,301	0,487	0,896	1,36	2,08	3,02	4,041	5,00	5,34	4,83	3,92									
3,49	0,0990	0,24	0,319	0,508	0,926	1,41	2,16	3,11	4,125	5,08	5,33	4,83	3,91									
5,93	0,1160	0,24	0,330	0,536	0,959	1,47	2,26	3,22	4,232	5,17	5,31	4,77	3,89									
10,08	0,1330	0,25	0,342	0,568	1,006	1,54	2,36	3,33	4,337	5,27	5,30	4,75	3,86									
17,14	0,1540	0,25	0,353	0,599	1,042	1,59	2,45	3,43	4,423	5,36	5,29	4,71	3,83									
29,13	0,1690	0,26	0,365	0,634	1,069	1,64	2,51	3,50	4,483	5,42	5,28	4,71	3,78									
49,52	0,1790	0,26	0,377	0,653	1,088	1,68	2,55	3,54	4,532	5,46	5,28	4,67	3,73									
84,19	0,1910	0,26	0,387	0,670	1,100	1,71	2,58	3,57	4,557	5,50	5,28	4,65	3,68									
143,12	0,2050	0,27	0,397	0,681	1,111	1,73	2,60	3,60	4,577	5,53	5,27	4,64	3,64									
243,30	0,2030	0,27	0,404	0,693	1,121	1,75	2,62	3,62	4,593	5,55	5,27	4,64	3,61									
413,62	0,2020	0,29	0,411	0,703	1,130	1,77	2,64	3,63	4,609	5,55	5,27	4,63	3,59									
703,15	0,2010	0,29	0,415	0,710	1,139	1,78	2,65	3,65	4,623	5,55	5,27		3,57									
1195,35	0,2090				1,152		2,66	0,00	4,629		5,27		3,56									
2032,12													3,55									
3454,60													3,54									
5872,82																						
ε (%)	0,580	1,289	1,966	3,390	5,373	8,762	12,839	17,754	22,608	27,492	26,345	23,150	17,870									
e	0,729	0,717	0,705	0,680	0,646	0,587	0,516	0,431	0,346	0,261	0,281	0,337	0,429									

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

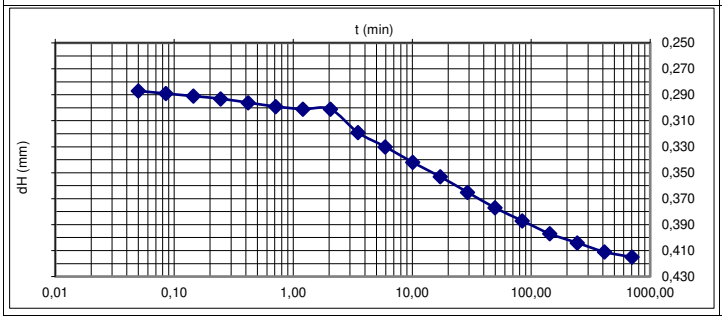
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2553**	**del 24/07/2021**	**Accettazione 2840**	**del 05/07/2021**

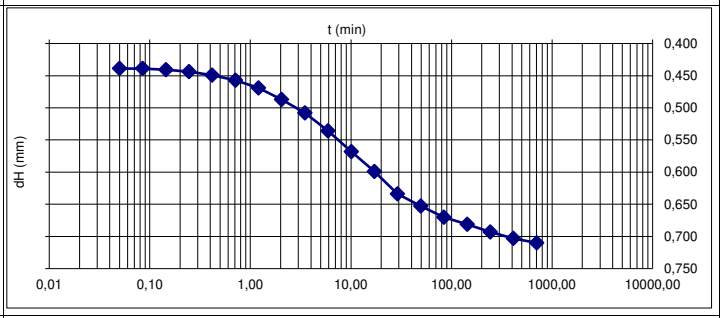
PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Diagrammi cedimento- log del tempo*

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S03
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

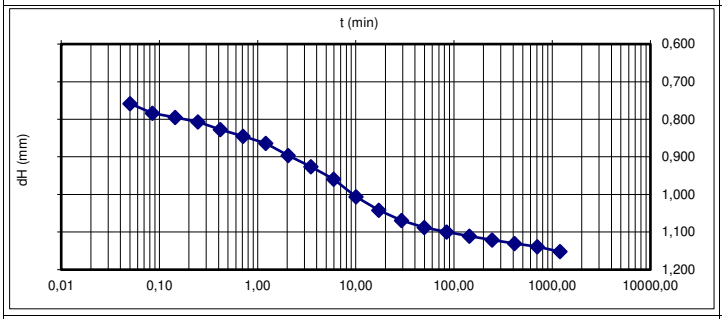
Passo 3 - σv 50 kPa



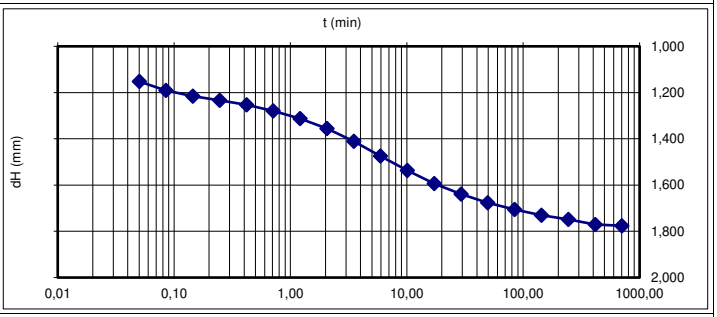
Passo 4 - σv 100 kPa



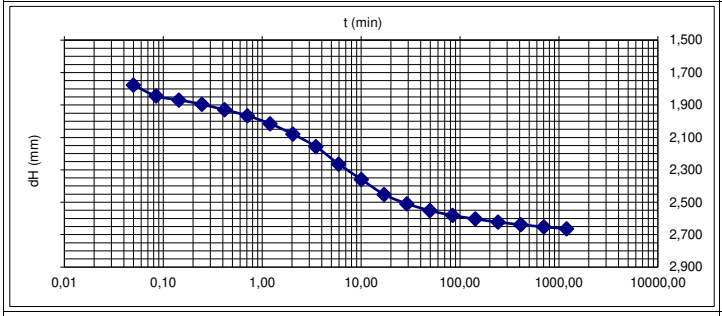
Passo 5 - σv 200 kPa



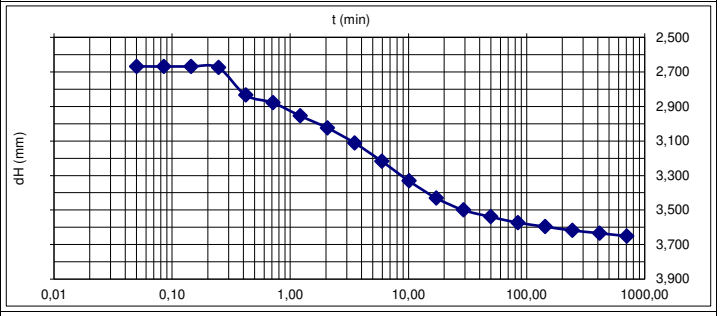
Passo 6 - σv 400 kPa



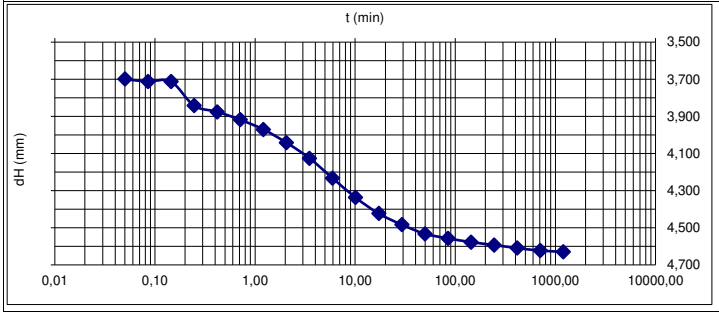
Passo 7 - σv 800 kPa



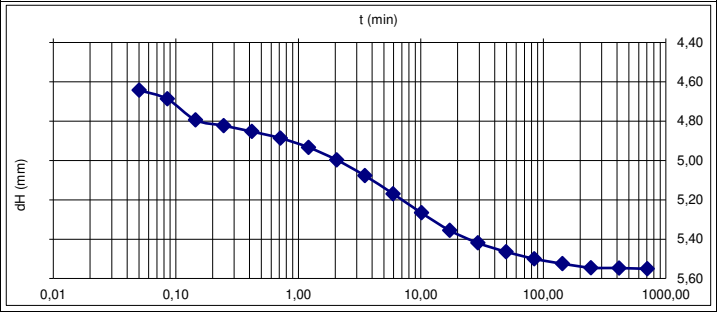
Passo 8 - σv 1600 kPa



Passo 9 - σv 3200 kPa



Passo 10 - σv 6400 kPa

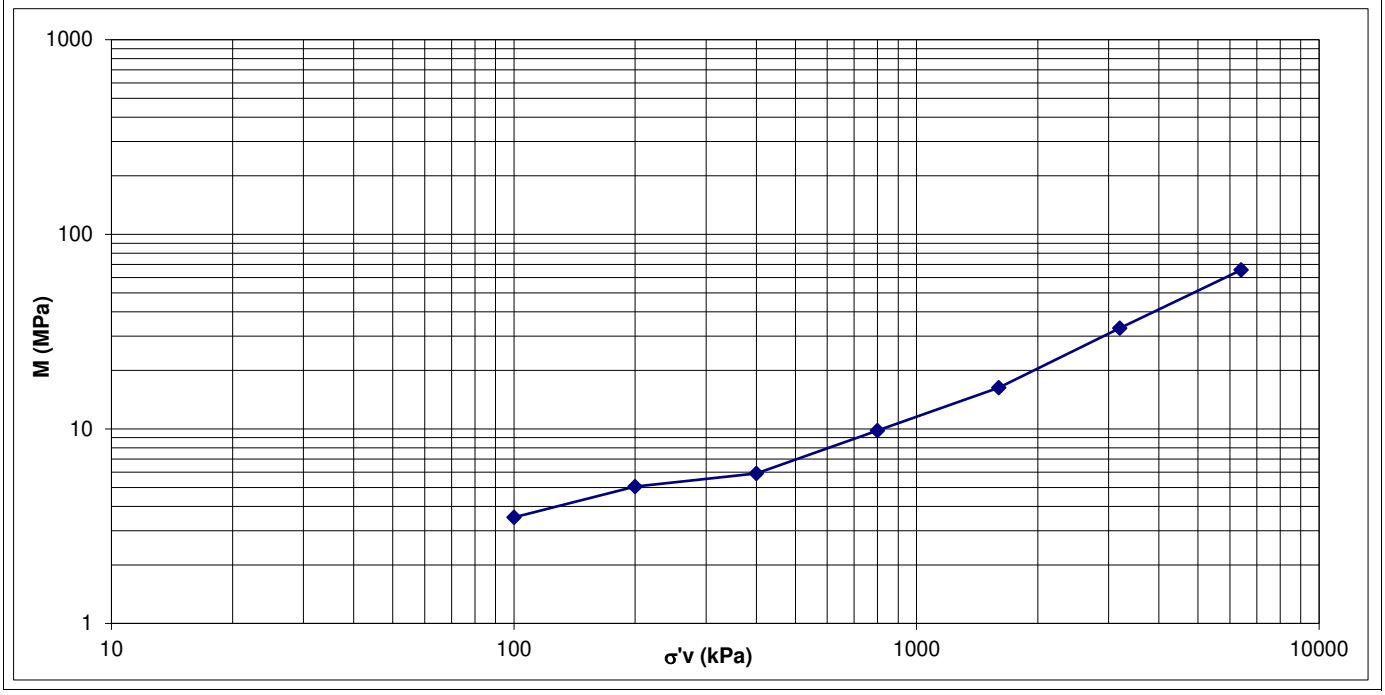


Certificato	**2553**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Tabella riassuntiva*

Passo	σ'_v [kPa]	ε [%]	e [-]	M [MPa]	C_v [cmq/sec]	K [m/sec]	C_α [%]	a_v [MPa-1]
1	12,5	0,580	0,729					
2	25	1,289	0,717	1,76264	8,31E-04	4,62E-10		
3	50	1,966	0,705	3,69609	2,99E-04	7,93E-11		
4	100	3,390	0,680	3,50915	4,24E-04	1,18E-10		
5	200	5,373	0,646	5,04395	1,14E-03	2,22E-10		
6	400	8,762	0,587	5,90057	1,34E-03	2,23E-10		
7	800	12,839	0,516	9,81127	1,17E-03	1,17E-10		
8	1600	17,754	0,431	16,27780	2,44E-03	1,47E-10		
9	3200	22,608	0,346	32,96385	8,87E-04	2,64E-11		
10	6400	27,492	0,261	65,51970	4,15E-04	6,22E-12		
11	1600	26,345	0,281					
12	400	23,150	0,337					
13	100	17,870	0,429					

Grafico di confronto tra la pressione verticale applicata **σ' v** (kPa) e il modulo edometrico **M**

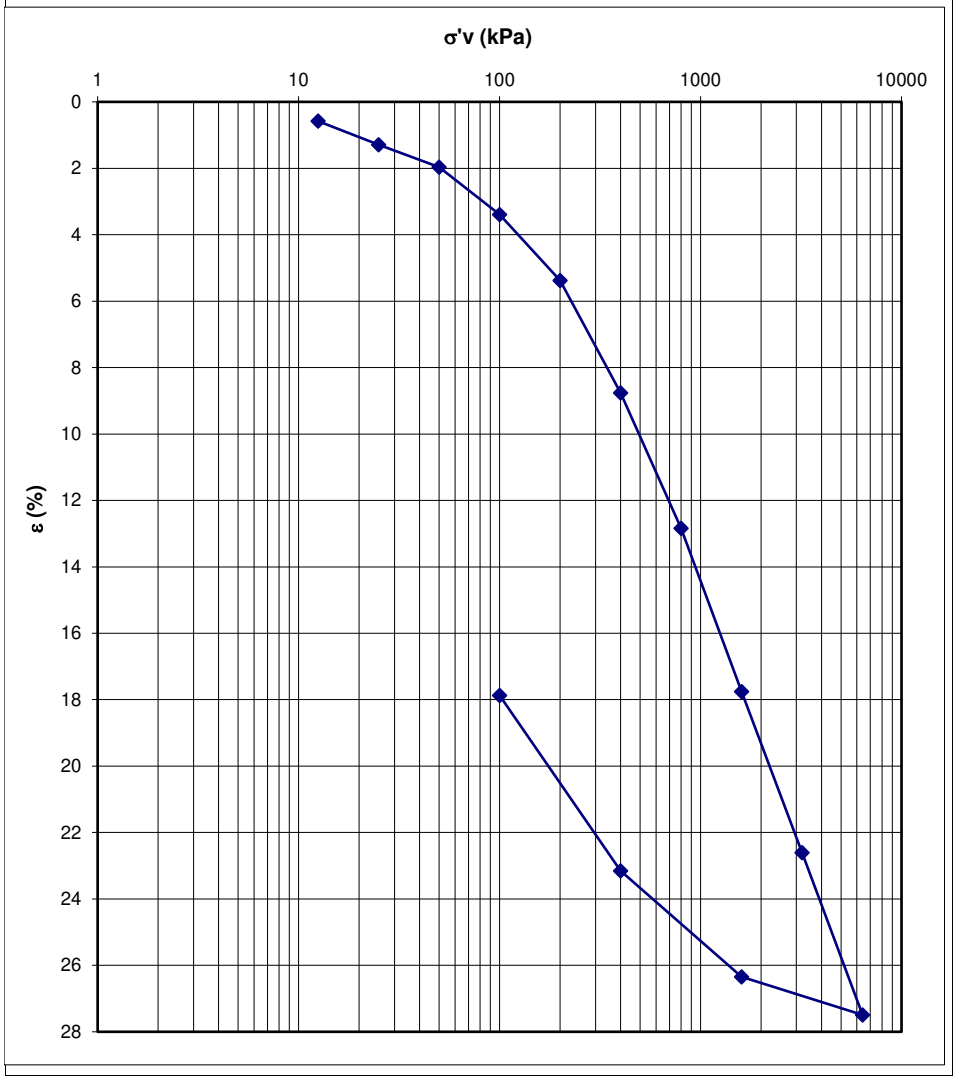


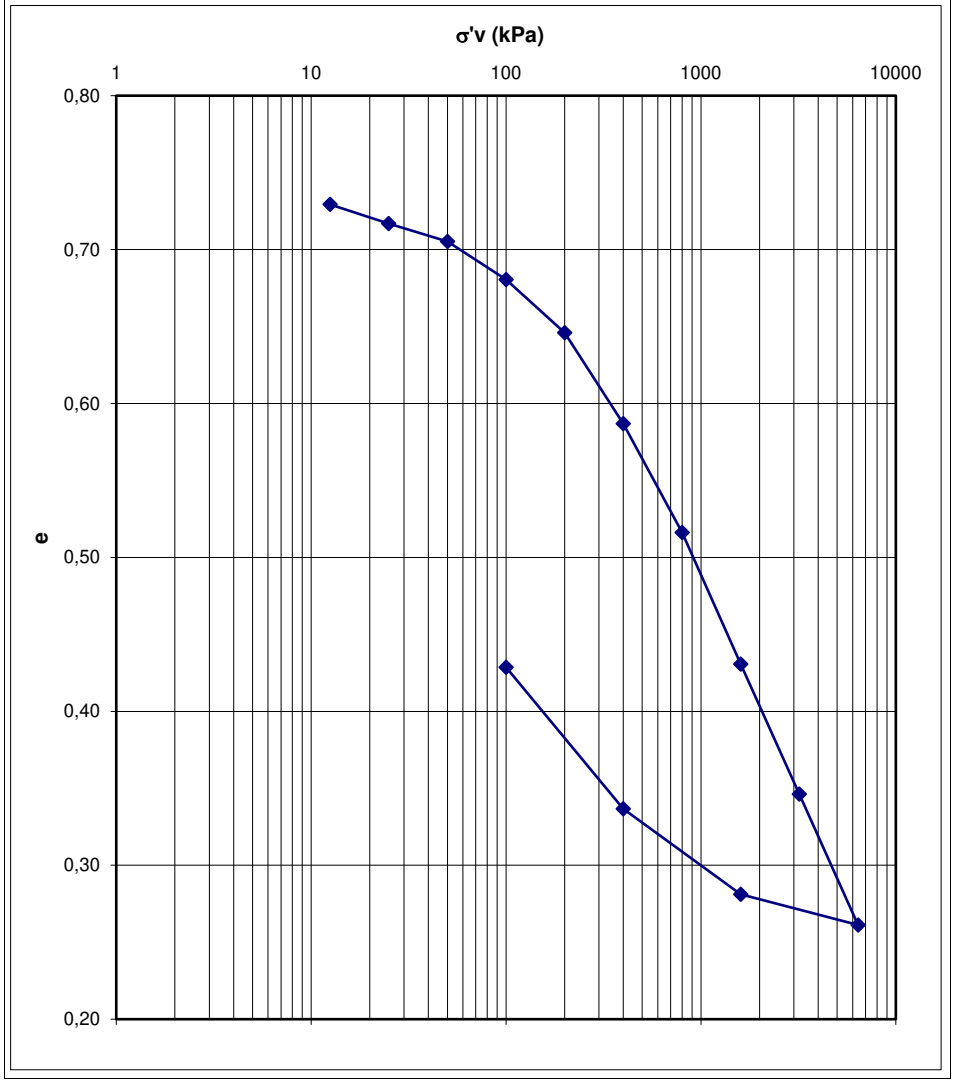
ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2553**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Grafici tra la pressione verticale* ***σ' v*** *(kPa), la deformazione verticale* ***ε*** *e l'indice dei vuoti* ***e***





ALTAIR S.R.L.

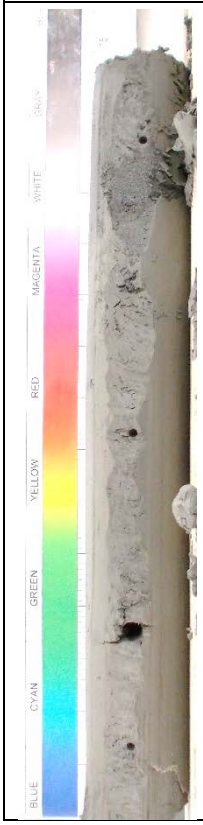
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2571	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S03
CAMPIONE:	CI2 IN CLASSE Q4-Q5
PROFONDITÀ:	12,00-12,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**		0.70 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**		2.5 Y 3/1 very dark gray	
Lunghezza Campione (m)	0.60	**Odore**		inodore	
Reazione HCL	forte	**Consistenza**		elevata	
Condizioni di Umidità	umido	**Plasticità**	**Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**		taglio	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Argilla con Limo debolmente Sabbiosa di colore grigio. Da 12.40 a 12.50 Livello di Sabbia fine con Limo di colore grigio scuro.
	5.0		
	7.5		
		1.6	
	7.5		
			-

ALTAIR S.R.L.

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2548	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO *(ASTM D3080)*

data inizio prova	08/07/2021	data fine prova	13/07/2021

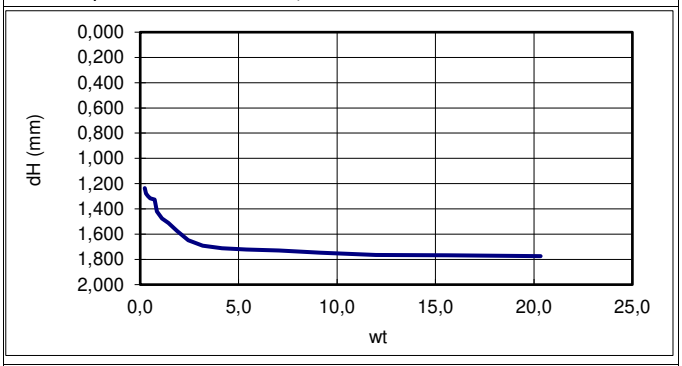
COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
CAMPIONE:	S03
SONDAGGIO:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Dati Provini		σ_v (kPa)	σ_v (kPa)	σ_v (kPa)
		150,0	250,0	350,0
Sezione provino	mmq	28293,19	28293,19	28293,19
Altezza iniziale	mm	19,76	19,76	19,76
Altezza finale	mm	17,77	17,16	17,04
Peso tara 1	Mg	4,48E-05	4,48E-05	4,48E-05
Tara + p. umido iniziale	Mg	1,59E-04	1,59E-04	1,60E-04
Peso tara 2	Mg	4,16E-05	4,65E-05	4,74E-05
Tara + p. umido finale	Mg	1,44E-04	1,50E-04	1,52E-04
Tara + p. provino secco	Mg	1,21E-04	1,27E-04	1,28E-04
Peso di volume iniziale	Mg/mc	2,04	2,05	2,06
Peso di volume finale	Mg/mc	2,04	2,13	2,16
Peso di volume secco	Mg/mc	1,43	1,43	1,44
Contenuto acqua iniziale	%	43,15	43,08	43,39
Contenuto acqua finale	%	28,64	28,89	29,55
Saturazione iniziale	%	100,00	100,00	100,00
Saturazione finale	%	100,00	100,00	100,00
Indice dei vuoti iniziale	-	0,89	0,88	0,88
Indice dei vuoti finale	-	0,70	0,64	0,62
Peso vol. secco finale	Mg/mc	1,59	1,65	1,67
Altezza fine consolidazione	mm	17,98	17,65	17,31
Valore t_{100}	min	5,20	7,40	8,60

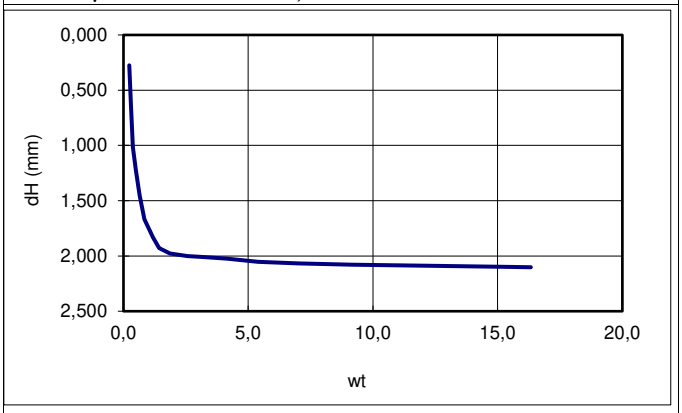
Letture Tempi - Cedimenti		σ_v (KpA)	σ_v (KpA)	σ_v (KpA)
		150,0	250,0	350,0
[min]	letture	dH	dH	dH
	n.	[mm]	[mm]	[mm]
0,05	1	0,00	0,00	0,00
0,09	2	1,28	0,64	1,94
0,15	3	1,30	1,02	1,98
0,25	4	1,32	1,22	2,05
0,55	5	1,33	1,45	2,12
0,71	6	1,42	1,67	2,17
1,21	7	1,48	1,83	2,21
2,05	8	1,51	1,93	2,26
3,49	9	1,58	1,98	2,28
5,93	10	1,65	2,00	2,31
10,08	11	1,69	2,01	2,33
17,14	12	1,71	2,03	2,35
29,13	13	1,72	2,05	2,36
49,53	14	1,73	2,07	2,37
84,19	15	1,75	2,08	2,40
143,13	16	1,76	2,09	2,43
243,31	17	1,77	2,10	2,44
413,62	18	1,77	2,10	2,44
0,00	19	0,00	0,00	0,00
0,00	20	0,00	0,00	0,00
0,00	21	0,00	0,00	0,00

Grafici Cedimenti dh/√t

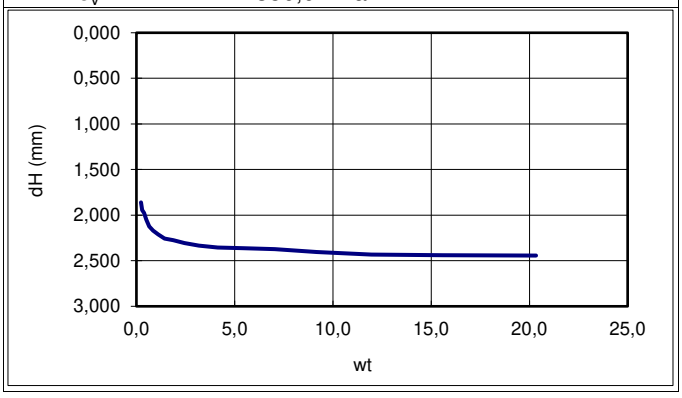
σ_v 150,0 kPa



σ_v 250,0 kPa



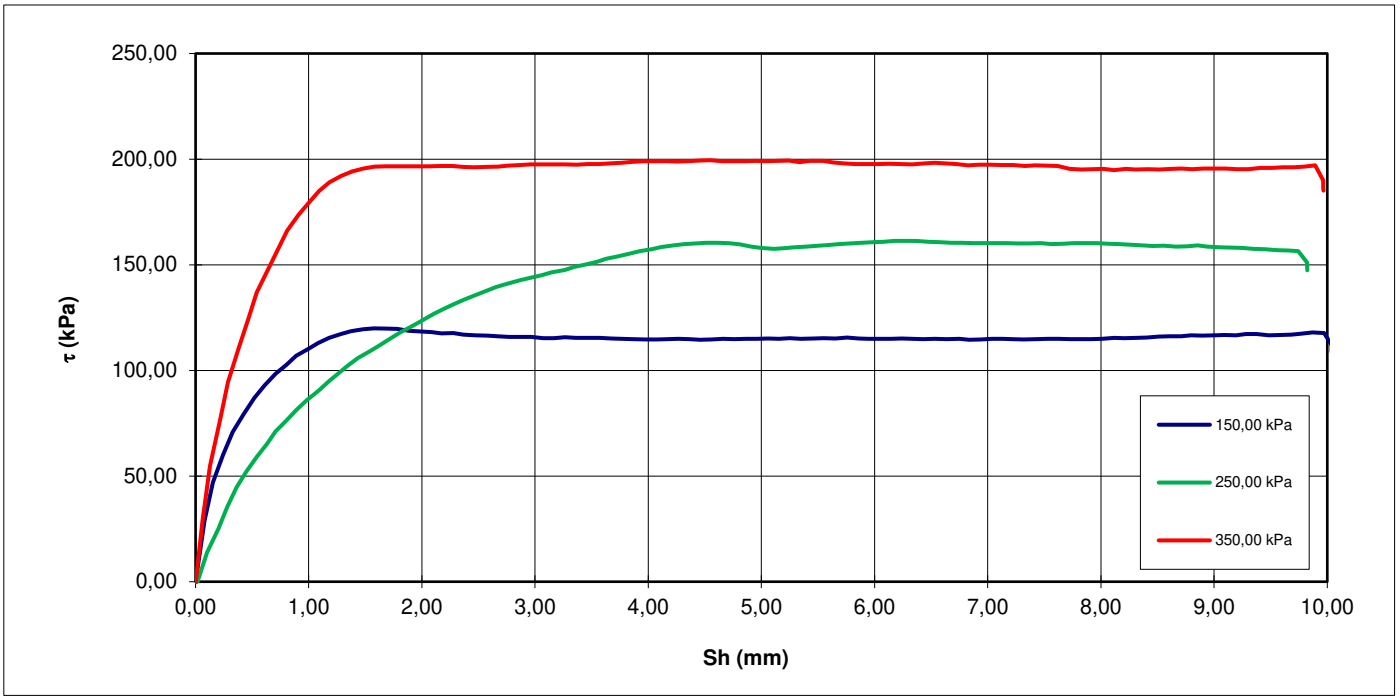
σ_v 350,0 kPa



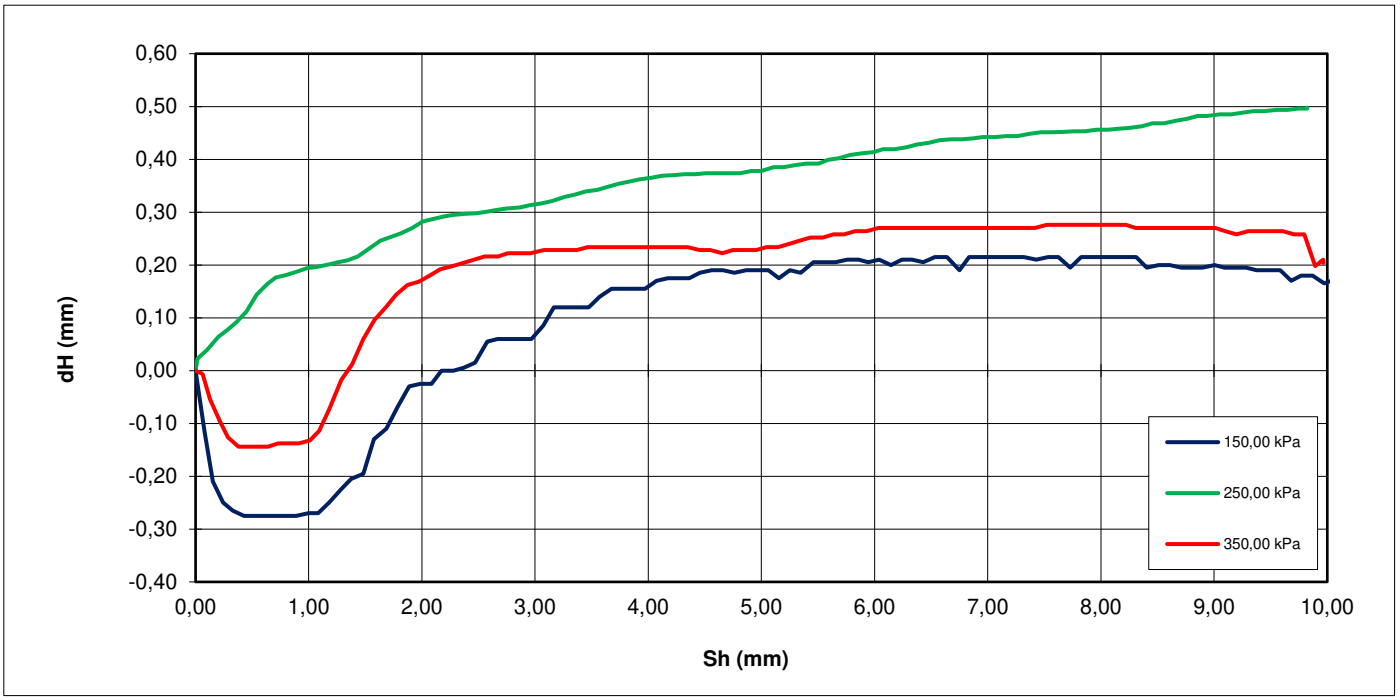
IL DIRETTORE DEL LABORATORIO:

Certificato 2548	del 23/07/2021	Accettazione 2840	del 05/07/2021

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICO (t Sh) ASTM D3080



PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICI (deformazione verticale/scorrimento orizzontale) ASTM D3080



Certificato 2548	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
0	0,00	0,00	-0,19	-0,07	0,00	0,00	-0,10	-0,04	0,00	0,00	-2,20	-0,78
10	0,08	-0,12	81,84	28,92	0,02	0,02	0,10	0,04	0,06	-0,01	83,17	29,40
20	0,15	-0,21	132,87	46,96	0,10	0,04	39,50	13,96	0,13	-0,05	155,21	54,86
30	0,24	-0,25	170,10	60,12	0,20	0,06	70,80	25,02	0,22	-0,10	215,41	76,14
40	0,33	-0,27	200,53	70,88	0,28	0,08	100,40	35,49	0,29	-0,13	267,03	94,38
50	0,43	-0,28	224,91	79,49	0,36	0,09	126,50	44,71	0,38	-0,14	312,16	110,33
60	0,52	-0,28	246,27	87,04	0,45	0,11	147,90	52,27	0,47	-0,14	352,06	124,43
70	0,61	-0,28	263,28	93,05	0,54	0,14	166,90	58,99	0,54	-0,14	387,32	136,90
80	0,71	-0,28	278,40	98,40	0,63	0,16	185,10	65,42	0,64	-0,14	417,83	147,68
90	0,80	-0,28	290,68	102,74	0,71	0,18	201,50	71,22	0,73	-0,14	445,90	157,60
100	0,89	-0,28	302,40	106,88	0,80	0,18	215,70	76,24	0,81	-0,14	469,92	166,09
110	1,00	-0,27	311,85	110,22	0,89	0,19	230,00	81,29	0,91	-0,14	491,38	173,67
120	1,08	-0,27	319,79	113,03	0,98	0,19	243,10	85,92	1,01	-0,13	509,12	179,95
130	1,18	-0,25	326,59	115,43	1,08	0,20	255,40	90,27	1,09	-0,11	523,39	184,99
140	1,28	-0,23	331,88	117,30	1,18	0,20	268,10	94,76	1,18	-0,07	534,99	189,09
150	1,38	-0,21	335,48	118,57	1,26	0,21	278,50	98,43	1,29	-0,02	543,58	192,12
160	1,48	-0,20	337,93	119,44	1,34	0,21	289,30	102,25	1,38	0,01	549,38	194,17
170	1,58	-0,13	339,26	119,91	1,44	0,22	299,60	105,89	1,48	0,06	553,32	195,57
180	1,69	-0,11	338,88	119,77	1,54	0,23	308,60	109,07	1,58	0,10	555,64	196,39
190	1,78	-0,07	338,50	119,64	1,63	0,25	317,30	112,15	1,68	0,12	556,22	196,59
200	1,89	-0,03	336,04	118,77	1,73	0,25	326,10	115,26	1,77	0,14	556,10	196,55
210	1,99	-0,03	335,10	118,44	1,81	0,26	334,30	118,16	1,87	0,16	556,22	196,59
220	2,09	-0,03	334,15	118,10	1,92	0,27	342,40	121,02	1,97	0,17	556,34	196,63
230	2,17	0,00	332,64	117,57	2,01	0,28	350,20	123,78	2,07	0,18	556,34	196,63
240	2,28	0,00	333,02	117,70	2,10	0,29	358,20	126,60	2,16	0,19	556,57	196,71
250	2,37	0,01	330,94	116,97	2,19	0,29	365,40	129,15	2,27	0,20	556,68	196,76
260	2,47	0,02	329,81	116,57	2,28	0,30	371,70	131,37	2,37	0,20	555,41	196,30
270	2,58	0,06	329,43	116,43	2,38	0,30	378,00	133,60	2,46	0,21	555,06	196,18
280	2,67	0,06	328,86	116,23	2,48	0,30	384,60	135,93	2,56	0,22	555,29	196,26
290	2,77	0,06	327,92	115,90	2,58	0,30	390,10	137,88	2,67	0,22	555,76	196,43
300	2,87	0,06	327,73	115,83	2,66	0,30	394,70	139,50	2,76	0,22	557,15	196,92
310	2,97	0,06	327,92	115,90	2,75	0,31	399,10	141,06	2,87	0,22	558,08	197,25
320	3,07	0,09	326,21	115,30	2,87	0,31	403,60	142,65	2,96	0,22	558,89	197,53
330	3,17	0,12	326,21	115,30	2,95	0,31	406,70	143,74	3,08	0,23	558,89	197,53
340	3,27	0,12	327,54	115,77	3,06	0,32	410,50	145,09	3,17	0,23	558,89	197,53
350	3,36	0,12	326,59	115,43	3,15	0,32	414,50	146,50	3,27	0,23	558,77	197,49
360	3,47	0,12	326,59	115,43	3,26	0,33	417,50	147,56	3,37	0,23	558,54	197,41
370	3,57	0,14	326,40	115,36	3,35	0,33	421,50	148,98	3,46	0,23	559,24	197,66
380	3,68	0,16	325,84	115,16	3,45	0,34	424,90	150,18	3,56	0,23	559,24	197,66
390	3,77	0,16	325,27	114,96	3,55	0,34	428,70	151,52	3,66	0,23	560,05	197,94
400	3,86	0,16	324,89	114,83	3,63	0,35	432,50	152,86	3,76	0,23	560,86	198,23
410	3,97	0,16	324,51	114,70	3,74	0,35	435,90	154,07	3,86	0,23	562,37	198,76
420	4,07	0,17	324,51	114,70	3,83	0,36	439,20	155,23	3,96	0,23	563,30	199,09
430	4,17	0,18	324,89	114,83	3,93	0,36	442,70	156,47	4,06	0,23	563,30	199,09
440	4,27	0,18	325,27	114,96	4,03	0,37	445,40	157,42	4,16	0,23	562,95	198,97
450	4,36	0,18	324,70	114,76	4,12	0,37	448,10	158,38	4,26	0,23	562,83	198,93
460	4,46	0,19	323,76	114,43	4,22	0,37	450,40	159,19	4,35	0,23	563,06	199,01
470	4,56	0,19	324,51	114,70	4,32	0,37	452,30	159,86	4,45	0,23	564,11	199,38
480	4,66	0,19	325,08	114,90	4,42	0,37	453,00	160,11	4,55	0,23	564,46	199,50
490	4,76	0,19	324,70	114,76	4,51	0,37	454,00	160,46	4,65	0,22	563,30	199,09
500	4,87	0,19	325,08	114,90	4,61	0,37	454,00	160,46	4,75	0,23	563,30	199,09
510	4,96	0,19	325,46	115,03	4,71	0,37	453,60	160,32	4,86	0,23	563,06	199,01
520	5,06	0,19	325,65	115,10	4,81	0,37	451,70	159,65	4,95	0,23	563,64	199,22
530	5,15	0,18	325,27	114,96	4,91	0,38	448,80	158,62	5,04	0,23	563,18	199,05
540	5,25	0,19	326,21	115,30	5,00	0,38	447,00	157,99	5,15	0,23	563,41	199,13
550	5,35	0,19	325,27	114,96	5,11	0,39	445,80	157,56	5,24	0,24	564,11	199,38
560	5,46	0,21	325,84	115,16	5,20	0,39	446,60	157,85	5,34	0,25	561,90	198,60
570	5,55	0,21	326,21	115,30	5,29	0,39	447,70	158,24	5,43	0,25	563,41	199,13
580	5,65	0,21	325,84	115,16	5,40	0,39	448,80	158,62	5,54	0,25	563,53	199,17
590	5,76	0,21	326,78	115,50	5,51	0,39	449,80	158,98	5,64	0,26	561,56	198,48
600	5,86	0,21	325,84	115,16	5,59	0,40	450,80	159,33	5,73	0,26	560,05	197,94
610	5,94	0,21	325,46	115,03	5,69	0,40	452,00	159,76	5,83	0,26	559,24	197,66
620	6,04	0,21	325,08	114,90	5,78	0,41	453,00	160,11	5,93	0,26	559,24	197,66
630	6,14	0,20	325,46	115,03	5,88	0,41	453,90	160,43	6,03	0,27	559,24	197,66

Certificato 2548	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
640	6,24	0,21	325,65	115,10	5,99	0,41	454,60	160,67	6,13	0,27	559,82	197,86
650	6,33	0,21	325,27	114,96	6,08	0,42	455,20	160,89	6,23	0,27	559,35	197,70
660	6,43	0,21	324,89	114,83	6,18	0,42	456,20	161,24	6,33	0,27	559,00	197,58
670	6,53	0,22	325,27	114,96	6,28	0,42	456,20	161,24	6,44	0,27	560,05	197,94
680	6,64	0,22	324,70	114,76	6,38	0,43	456,30	161,28	6,53	0,27	560,86	198,23
690	6,75	0,19	325,08	114,90	6,48	0,43	455,20	160,89	6,63	0,27	560,05	197,94
700	6,84	0,22	323,76	114,43	6,57	0,44	454,50	160,64	6,72	0,27	559,24	197,66
710	6,94	0,22	324,32	114,63	6,68	0,44	453,80	160,39	6,83	0,27	557,50	197,04
720	7,04	0,22	325,08	114,90	6,77	0,44	453,80	160,39	6,92	0,27	558,31	197,33
730	7,13	0,22	325,08	114,90	6,87	0,44	453,50	160,29	7,02	0,27	558,54	197,41
740	7,22	0,22	324,89	114,83	6,96	0,44	453,60	160,32	7,12	0,27	557,96	197,21
750	7,32	0,22	324,51	114,70	7,07	0,44	453,50	160,29	7,22	0,27	558,19	197,29
760	7,43	0,21	324,89	114,83	7,16	0,44	453,30	160,22	7,33	0,27	556,57	196,71
770	7,53	0,22	325,27	114,96	7,26	0,44	453,00	160,11	7,42	0,27	557,50	197,04
780	7,62	0,22	325,08	114,90	7,37	0,45	453,00	160,11	7,52	0,28	557,26	196,96
790	7,73	0,20	324,70	114,76	7,47	0,45	453,20	160,18	7,62	0,28	556,68	196,76
800	7,83	0,22	324,89	114,83	7,56	0,45	452,30	159,86	7,72	0,28	552,86	195,40
810	7,91	0,22	324,89	114,83	7,66	0,45	452,60	159,97	7,83	0,28	552,16	195,16
820	8,01	0,22	325,27	114,96	7,76	0,45	453,40	160,25	7,92	0,28	552,62	195,32
830	8,12	0,22	326,40	115,36	7,86	0,45	453,60	160,32	8,02	0,28	552,86	195,40
840	8,21	0,22	326,21	115,30	7,96	0,46	453,30	160,22	8,12	0,28	551,35	194,87
850	8,31	0,22	326,59	115,43	8,06	0,46	452,70	160,00	8,22	0,28	552,74	195,36
860	8,41	0,20	326,97	115,56	8,16	0,46	452,20	159,83	8,31	0,27	552,04	195,12
870	8,51	0,20	328,10	115,97	8,26	0,46	451,20	159,47	8,41	0,27	552,39	195,24
880	8,61	0,20	328,48	116,10	8,36	0,46	450,50	159,23	8,52	0,27	552,16	195,16
890	8,71	0,20	328,67	116,17	8,46	0,47	449,70	158,94	8,62	0,27	552,97	195,44
900	8,80	0,20	329,81	116,57	8,56	0,47	449,90	159,01	8,71	0,27	553,44	195,61
910	8,89	0,20	329,62	116,50	8,66	0,47	448,80	158,62	8,81	0,27	552,39	195,24
920	9,01	0,20	330,18	116,70	8,76	0,48	449,20	158,77	8,91	0,27	553,20	195,53
930	9,09	0,20	330,37	116,77	8,85	0,48	450,30	159,15	9,01	0,27	553,20	195,53
940	9,19	0,20	330,18	116,70	8,94	0,48	448,80	158,62	9,10	0,26	553,44	195,61
950	9,28	0,20	331,51	117,17	9,05	0,49	447,80	158,27	9,20	0,26	552,28	195,20
960	9,38	0,19	331,88	117,30	9,15	0,49	447,50	158,17	9,30	0,26	552,51	195,28
970	9,48	0,19	329,99	116,63	9,25	0,49	447,00	157,99	9,41	0,26	554,02	195,81
980	9,59	0,19	330,37	116,77	9,35	0,49	445,80	157,56	9,51	0,26	554,02	195,81
990	9,68	0,17	330,94	116,97	9,45	0,49	445,40	157,42	9,61	0,26	554,83	196,10
1000	9,77	0,18	332,26	117,44	9,55	0,49	444,00	156,93	9,71	0,26	555,18	196,22
1010	9,87	0,18	333,77	117,97	9,65	0,49	443,50	156,75	9,80	0,26	555,99	196,51
1020	9,97	0,17	333,02	117,70	9,74	0,50	442,80	156,50	9,89	0,20	557,50	197,04
1030	10,04	0,17	317,14	112,09	9,82	0,50	427,10	150,96	9,96	0,21	537,31	189,91
1040	10,04	0,17	310,15	109,62	9,82	0,50	419,80	148,37	9,97	0,21	527,22	186,34
1050	10,04	0,17	307,88	108,82	9,82	0,50	417,10	147,42	9,97	0,20	523,51	185,03
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

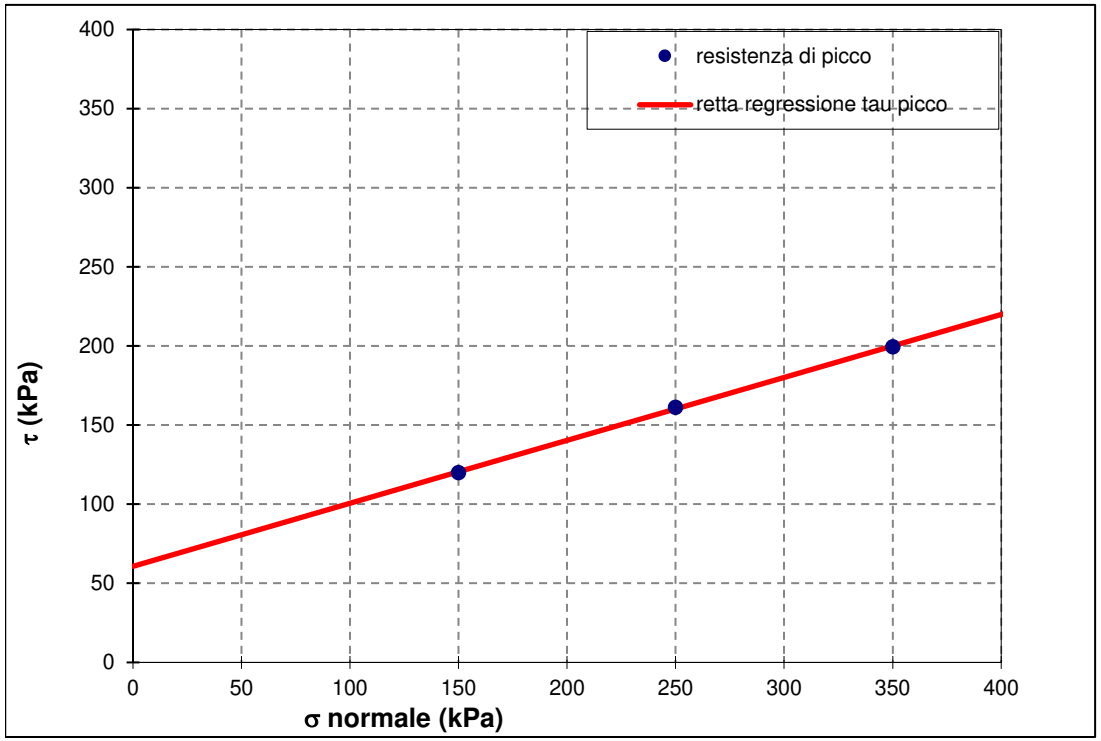
PROVA DI TAGLIO DIRETTO '- INVILUPPO A ROTTURA τ – σ

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO:	S03
CAMPIONE:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Caratteristiche dei provini

Provino	H_0	A_0	γn	γd	W_0	W_f	σ normale	τ di picco	Sh	Velocità
	mm	cm^2	Mg/mc	Mg/mc	%	%	[kPa]	[kPa]	mm	mm/min
T1	19,76	28,29	2,04	1,43	43,15	28,64	150,0	119,91	1,58	0,01
T2	19,76	28,29	2,05	1,43	43,08	28,89	250,0	161,28	6,38	0,01
T3	19,76	28,29	2,06	1,44	43,39	29,55	350,0	199,50	4,55	0,01

c' picco =	ϕ' picco =
kPa	°
60,73	**21,70**



Note

ALTAIR S.R.L.

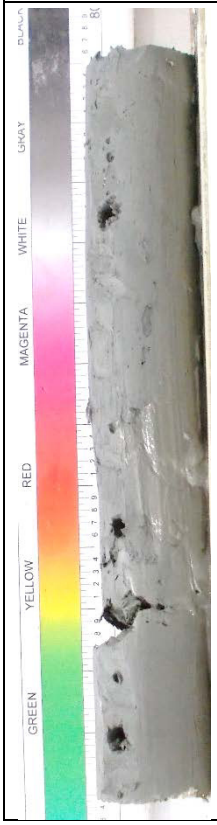
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2572	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S04
CAMPIONE:	CI1 IN CLASSE Q4-Q5
PROFONDITÀ:	6,00-6,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**		0.70 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**		2.5 Y 4/1 dark gray	
Lunghezza Campione (m)	0.52	**Odore**		inodore	
Reazione HCL	forte	**Consistenza**		elevata	
Condizioni di Umidità	Umido-bagnato	**Plasticità**	**Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**		edo	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Limo Argilloso con Sabbia; presenti livelli di torba a 6.00 m. Nella parte centrale il campione si presenta molto bagnato.
	2.5		
		1.0	
	2.0		
		0.4	
	8.0		
		2.0	
			-

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2554**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435)*

data inizio prova	**07/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S04
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

Dati provino

Sezione provino	2,00E-03	m2	Peso di volume iniziale	1,83	Mg/mc
Altezza iniziale	0,020	m	Peso di volume finale	2,00	Mg/mc
Altezza finale	0,016	m	Peso di volume secco	1,27	Mg/mc
Num tara 1	1		Contenuto acqua iniziale	43,45	%
Peso tara 1	5,66E-05	Mg	Contenuto acqua finale	28,14	%
Tara + p. umido iniziale	1,30E-04	Mg	Saturazione iniziale	100,00	%
Num tara 2	2		Saturazione finale	100,00	%
Peso tara 2	4,81E-05	Mg	Indice dei vuoti iniziale	1,12	-
Tara + p. umido finale	1,13E-04	Mg	Indice dei vuoti finale	0,73	-
Tara + p. provino secco	9,90E-05	Mg	Peso vol. secco finale	1,56	Mg/mc
Peso specifico grani	2,700	Mg/mc			

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2554	**del** 24/07/2021	**Accettazione** 2840	**del** 05/07/2021

PROVA EDOMETRICA A GRADINI DI CARICO (ASTM D2435) - Letture cedimenti in funzione del tempo in scala logaritmica

dt	Passo 1	Passo 2	Passo 3	Passo 4	Passo 5	Passo 6	Passo 7	Passo 8	Passo 9	Passo 10	Passo 11	Passo 12	Passo 13	Passo 14	Passo 15	Passo 16	Passo 17	Passo 18	Passo 19	Passo 20	Passo 21	Passo 22
	12,5 kPa	25 kPa	50 kPa	100 kPa	200 kPa	400 kPa	800 kPa	1600 kPa	3200 kPa	6400 kPa	1600 kPa	400 kPa	100 kPa									
	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH
min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0,00	0,0000																					
0,05	0,0200	0,02	0,033	0,098	0,352	0,74	1,18	1,74	2,398	2,94	3,73	3,68	3,34									
0,09	0,0190	0,02	0,035	0,121	0,412	0,74	1,26	1,84	2,405	2,95	3,73	3,68	3,34									
0,14	0,0190	0,02	0,038	0,127	0,426	0,84	1,33	1,87	2,463	2,95	3,73	3,68	3,34									
0,25	0,0190	0,02	0,042	0,133	0,439	0,85	1,35	1,90	2,529	2,98	3,73	3,68	3,34									
0,42	0,0190	0,02	0,046	0,139	0,449	0,86	1,37	1,93	2,559	3,07	3,73	3,68	3,34									
0,71	0,0190	0,02	0,049	0,154	0,449	0,88	1,39	1,97	2,584	3,16	3,73	3,68	3,34									
1,21	0,0180	0,02	0,052	0,163	0,490	0,90	1,41	2,01	2,622	3,19	3,71	3,68	3,34									
2,05	0,0160	0,02	0,056	0,173	0,512	0,92	1,44	2,07	2,654	3,23	3,70	3,67	3,34									
3,49	0,0120	0,02	0,058	0,183	0,536	0,95	1,47	2,14	2,694	3,26	3,70	3,66	3,34									
5,93	0,0090	0,02	0,061	0,200	0,554	0,97	1,52	2,20	2,735	3,34	3,70	3,64	3,34									
10,08		0,02	0,063	0,218	0,590	0,99	1,54	2,26	2,788	3,43	3,69	3,61	3,34									
17,14		0,02	0,065	0,233	0,618	1,03	1,58	2,31	2,831	3,55	3,69	3,58	3,34									
29,13		0,02	0,065	0,247	0,660	1,07	1,61	2,34	2,863	3,66	3,68	3,54	3,34									
49,52		0,01	0,065	0,261	0,701	1,12	1,63	2,36	2,890	3,71	3,68	3,50	3,33									
84,19			0,066	0,272	0,717	1,14	1,64	2,37	2,901	3,72	3,67	3,48	3,33									
143,12			0,066	0,285	0,722	1,16	1,65	2,38	2,912	3,73	3,67	3,46	3,33									
243,30			0,065	0,298	0,728	1,16	1,65	2,38	2,922	3,73	3,67	3,45	3,33									
413,62			0,066	0,304	0,733	1,17	1,65	2,39	2,928	3,73	3,67	3,45	3,33									
703,15			0,065	0,309	0,736	1,18	1,66	2,39	2,934	3,73	3,67	3,42	3,33									
1195,35			0,074	0,312	0,741		1,66		2,937	0,00	3,67		3,33									
2032,12					0,745																	
3454,60					0,748																	
5872,82																						
ε (%)	0,095	0,115	0,344	1,443	3,570	5,850	8,212	11,310	14,407	18,626	18,347	17,227	16,647									
e	1,120	1,120	1,115	1,092	1,046	0,998	0,948	0,882	0,816	0,727	0,733	0,757	0,769									

ALTAIR SRL

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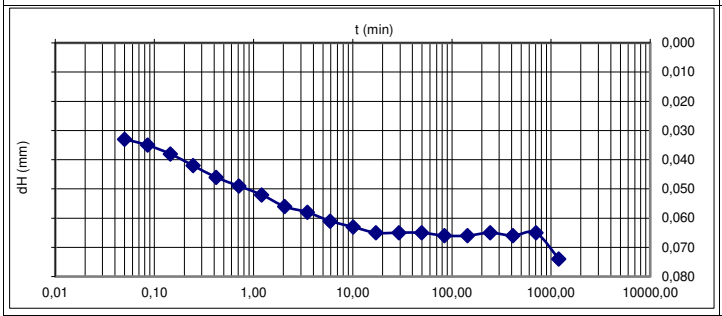
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2554**	**del 24/07/2021**	**Accettazione 2840**	**del 05/07/2021**

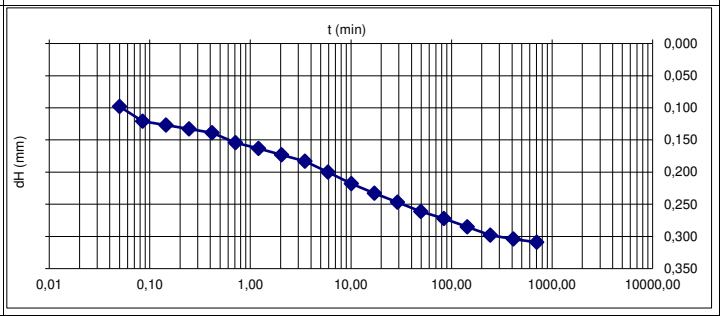
PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Diagrammi cedimento- log del tempo*

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	S04
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

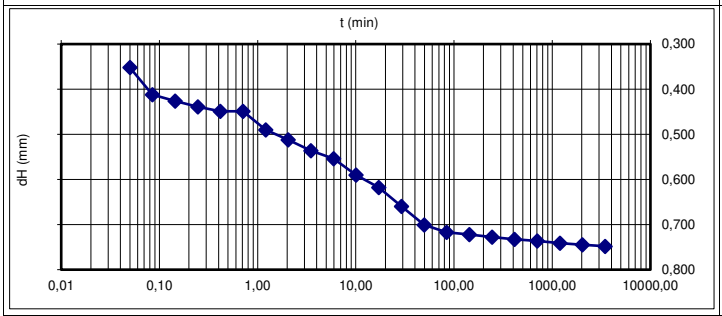
Passo 3 - σv 50 kPa



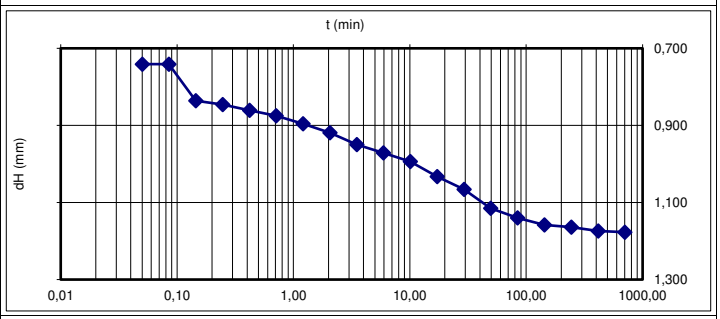
Passo 4 - σv 100 kPa



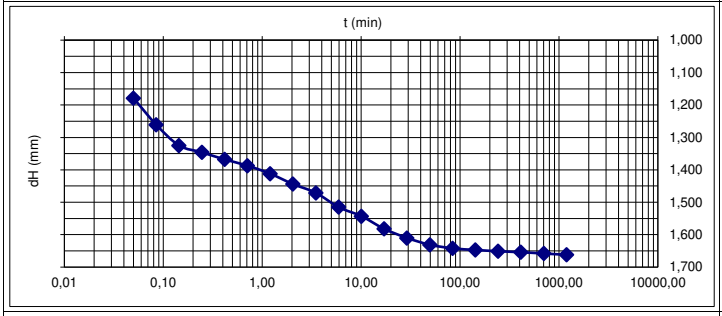
Passo 5 - σv 200 kPa



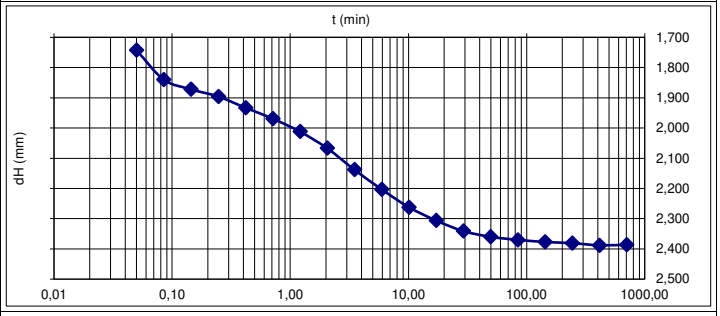
Passo 6 - σv 400 kPa



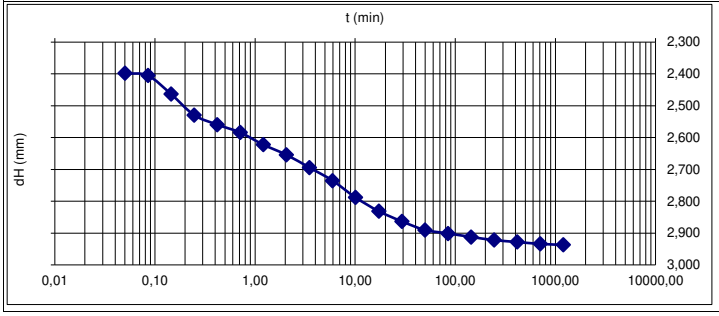
Passo 7 - σv 800 kPa



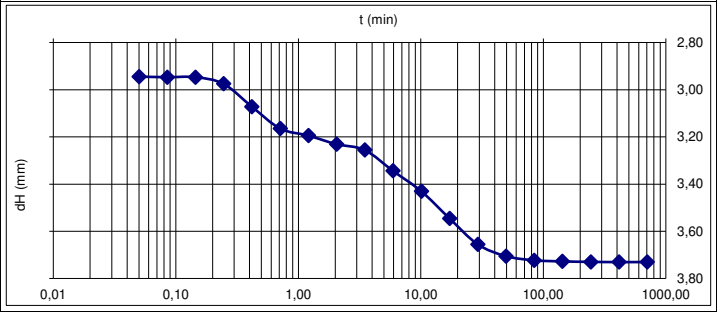
Passo 8 - σv 1600 kPa



Passo 9 - σv 3200 kPa



Passo 10 - σv 6400 kPa

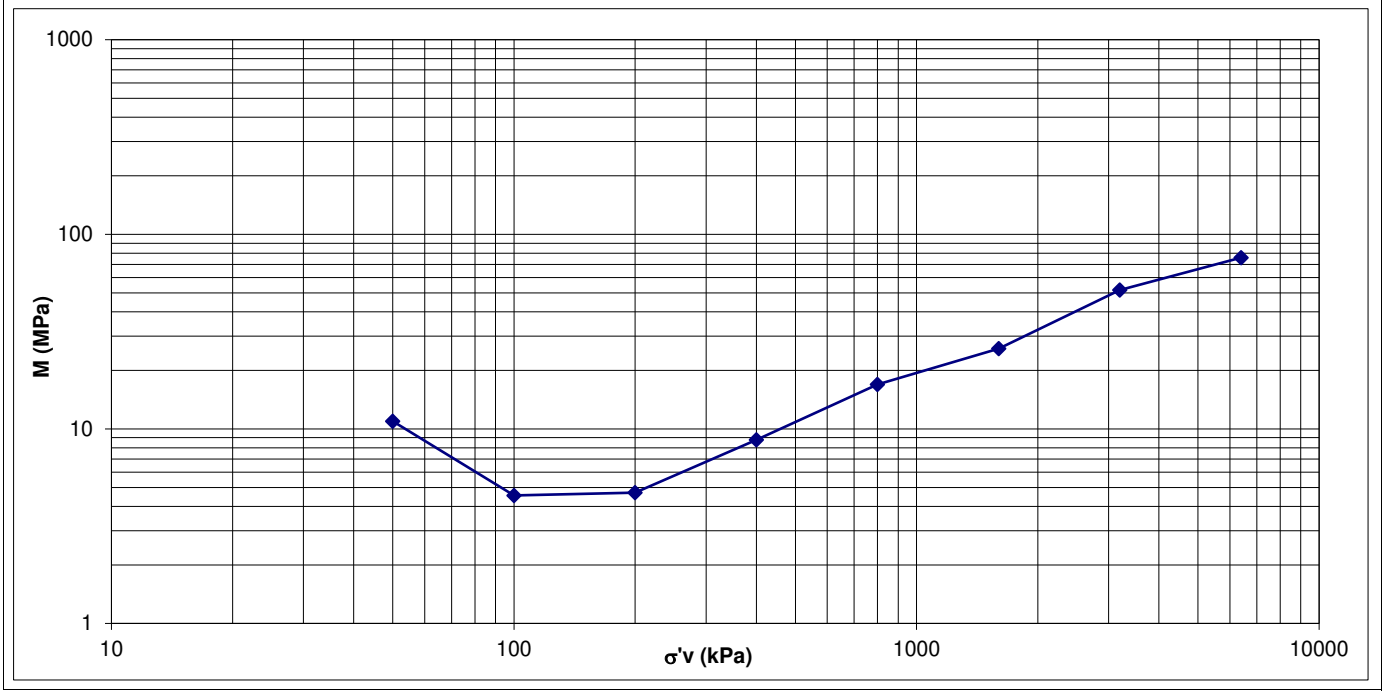


Certificato	**2554**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Tabella riassuntiva*

Passo	σ'_v [kPa]	ε [%]	e [-]	M [MPa]	C_v [cmq/sec]	K [m/sec]	C_α [%]	a_v [MPa-1]
1	12,5	0,095	1,120	rig				
2	25	0,115	1,120	rig				
3	50	0,344	1,115	10,93748	4,02E-03	3,61E-10		
4	100	1,443	1,092	4,54750	5,92E-04	1,28E-10		
5	200	3,570	1,046	4,70115	4,46E-04	9,32E-11		
6	400	5,850	0,998	8,77251	1,05E-03	1,17E-10		
7	800	8,212	0,948	16,93423	9,52E-04	5,51E-11		
8	1600	11,310	0,882	25,82431	1,95E-03	7,40E-11		
9	3200	14,407	0,816	51,65658	6,53E-03	1,24E-10		
10	6400	18,626	0,727	75,86018	7,65E-04	9,89E-12		
11	1600	18,347	0,733					
12	400	17,227	0,757					
13	100	16,647	0,769					

Grafico di confronto tra la pressione verticale applicata **σ' v** (kPa) e il modulo edometrico **M**

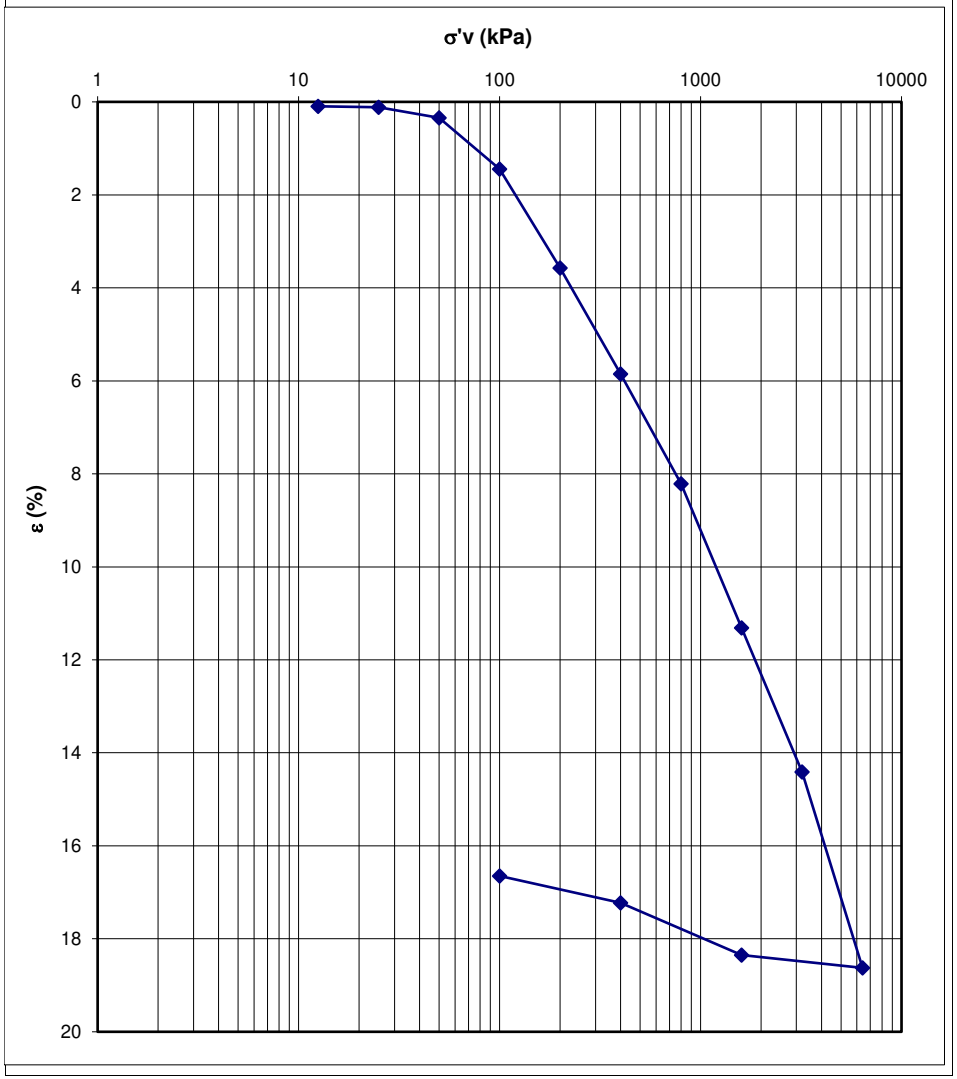


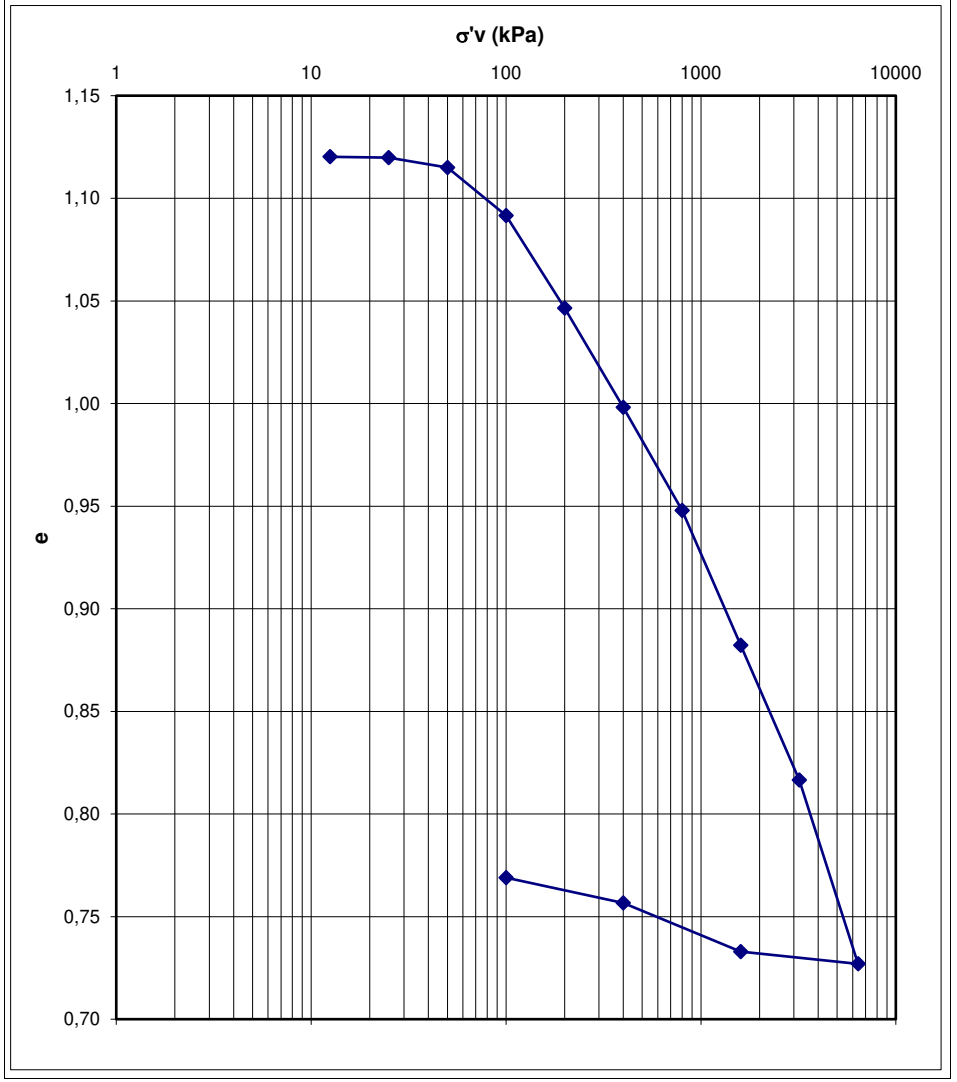
ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2554**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Grafici tra la pressione verticale* ***σ' v*** *(kPa), la deformazione verticale* ***ε*** *e l'indice dei vuoti* ***e***





ALTAIR S.R.L.

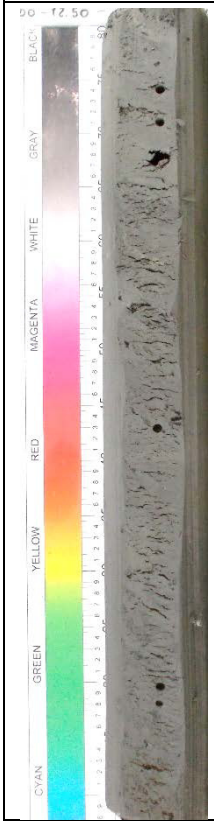
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2573	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	S04
CAMPIONE:	CI2 IN CLASSE Q4-Q5
PROFONDITÀ:	12,00-12,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**		0.75 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**		2.5 Y 3/1 very dark gray	
Lunghezza Campione (m)	0.61	**Odore**		inodore	
Reazione HCL	nessuna	**Consistenza**		Medio bassa	
Condizioni di Umidità	Umido	**Plasticità**	**Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**		taglio	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Limo e Argilla Sabbioso; presenti livelli di torba a 12.50 m circa..
	1.0		
		1.0	
	1.0		
	0.5		
			-

Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO Laboratorio: Via A. Martini, 11 20092 Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281 E- E-mail:info@geoaltair.it
P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO

ALTAIR S.R.L.

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2549	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO *(ASTM D3080)*

data inizio prova	08/07/2021	data fine prova	14/07/2021

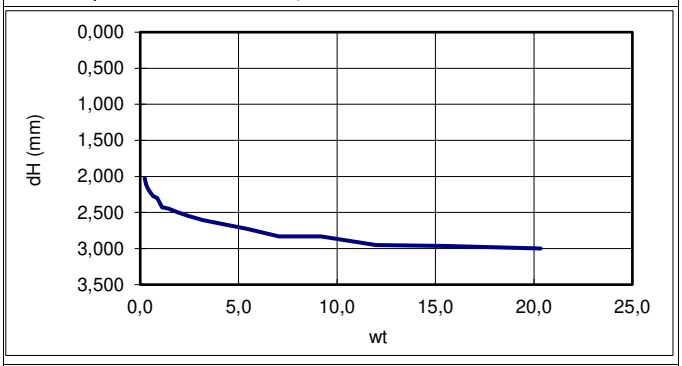
COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
CAMPIONE:	S04
SONDAGGIO:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Dati Provini		σ_v (kPa)	σ_v (kPa)	σ_v (kPa)
		150,0	250,0	350,0
Sezione provino	mmq	28293,19	28293,19	28293,19
Altezza iniziale	mm	19,76	19,76	19,76
Altezza finale	mm	16,71	16,12	15,62
Peso tara 1	Mg	4,46E-05	4,46E-05	4,46E-05
Tara + p. umido iniziale	Mg	1,34E-04	1,34E-04	1,33E-04
Peso tara 2	Mg	4,15E-05	4,14E-05	4,65E-05
Tara + p. umido finale	Mg	1,25E-04	1,25E-04	1,28E-04
Tara + p. provino secco	Mg	9,20E-05	9,14E-05	9,49E-05
Peso di volume iniziale	Mg/mc	1,60	1,59	1,59
Peso di volume finale	Mg/mc	1,77	1,83	1,84
Peso di volume secco	Mg/mc	0,90	0,90	0,86
Contenuto acqua iniziale	%	76,64	77,64	83,88
Contenuto acqua finale	%	65,58	67,01	68,54
Saturazione iniziale	%	100,00	100,00	100,00
Saturazione finale	%	100,00	100,00	100,00
Indice dei vuoti iniziale	-	1,99	2,01	2,12
Indice dei vuoti finale	-	1,53	1,46	1,47
Peso vol. secco finale	Mg/mc	1,07	1,10	1,09
Altezza fine consolidazione	mm	16,76	16,22	15,75
Valore t_{100}	min	5,10	6,90	7,30

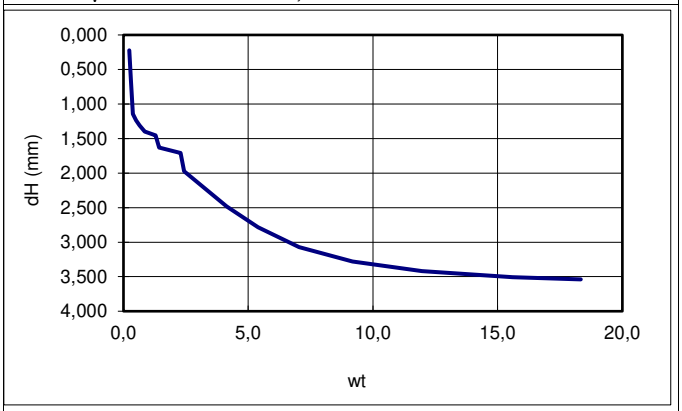
Letture Tempi - Cedimenti		σ_v (KpA)	σ_v (KpA)	σ_v (KpA)
		150,0	250,0	350,0
[min]	letture	dH	dH	dH
	n.	[mm]	[mm]	[mm]
0,05	1	0,00	0,00	0,00
0,09	2	2,11	0,67	3,15
0,15	3	2,16	1,15	3,31
0,25	4	2,22	1,24	3,39
0,42	5	2,27	1,31	3,43
0,75	6	2,30	1,40	3,51
1,21	7	2,43	1,46	3,63
2,06	8	2,45	1,63	3,66
3,49	9	2,49	1,71	3,71
5,93	10	2,55	1,97	3,75
10,08	11	2,60	2,20	3,81
17,14	12	2,66	2,48	3,83
29,14	13	2,72	2,79	3,86
49,53	14	2,83	3,07	3,86
84,19	15	2,83	3,28	3,88
143,13	16	2,95	3,42	3,97
243,31	17	2,96	3,51	3,97
413,62	18	3,00	3,54	4,01
0,00	19	0,00	0,00	0,00
0,00	20	0,00	0,00	0,00
0,00	21	0,00	0,00	0,00

Grafici Cedimenti dh/√t

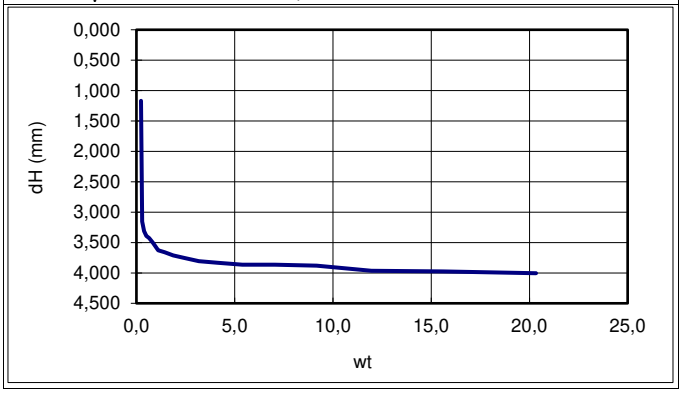
σ_v 150,0 kPa



σ_v 250,0 kPa



σ_v 350,0 kPa

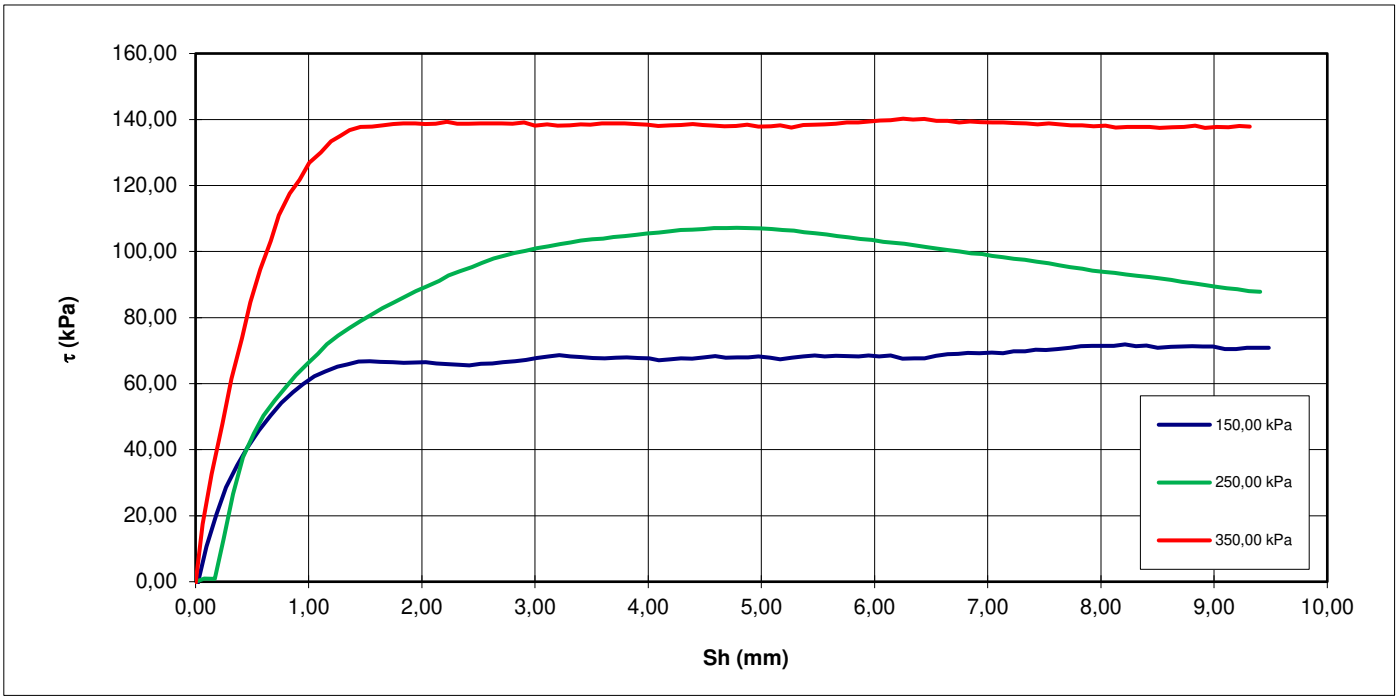


Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO
Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281
E-mail:info@geoaltair.it P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

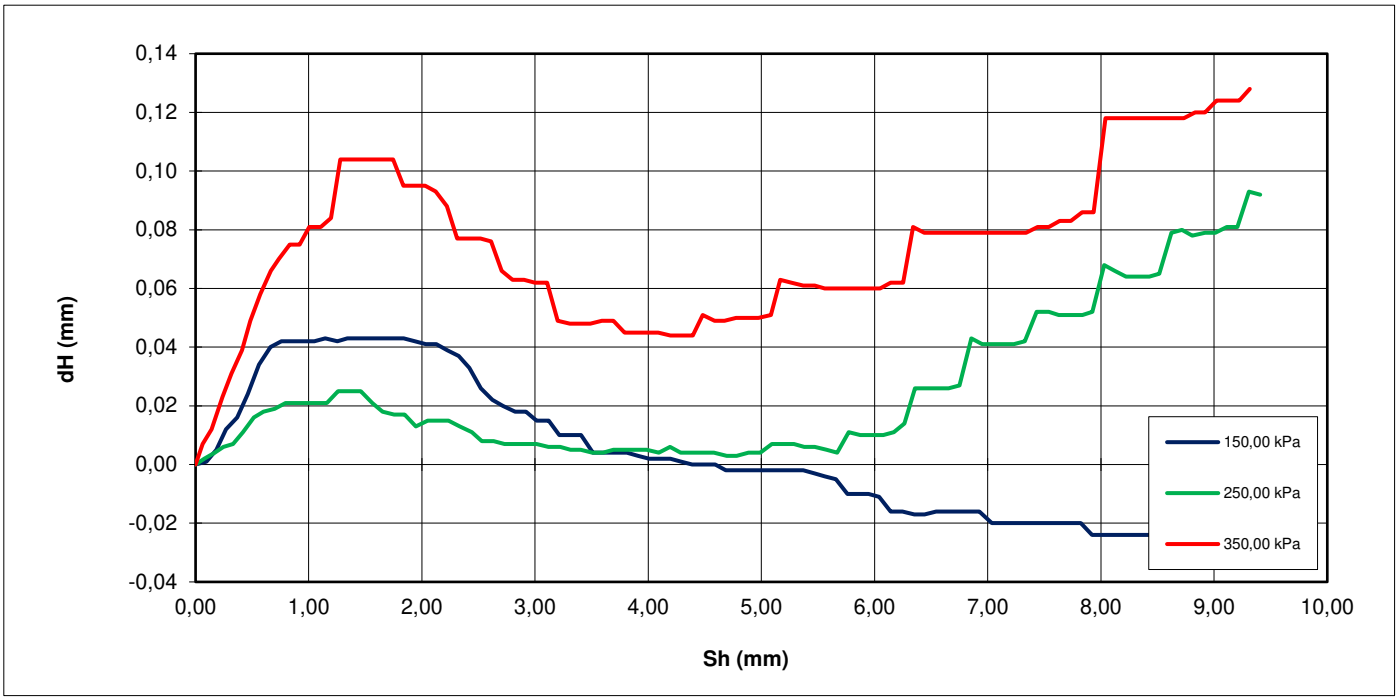
IL DIRETTORE DEL LABORATORIO:

Certificato 2549	del 23/07/2021	Accettazione 2840	del 05/07/2021

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICO (t Sh) ASTM D3080



PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICI (deformazione verticale/scorrimento orizzontale) ASTM D3080



Certificato 2549	del 23/07/2021	Accettazione 2840	del 05/07/2021

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
0	0,00	0,00	-9,39	-3,32	0,00	0,00	-0,10	-0,04	0,00	0,00	-1,54	-0,54
10	0,10	0,00	30,25	10,69	0,08	0,00	2,70	0,95	0,06	0,01	49,28	17,42
20	0,18	0,01	57,66	20,38	0,17	0,00	2,40	0,85	0,14	0,01	92,19	32,58
30	0,27	0,01	80,91	28,60	0,25	0,01	36,00	12,72	0,24	0,02	135,59	47,92
40	0,37	0,02	99,68	35,23	0,33	0,01	75,20	26,58	0,32	0,03	173,81	61,43
50	0,46	0,02	115,33	40,76	0,42	0,01	106,70	37,71	0,41	0,04	208,60	73,73
60	0,56	0,03	129,78	45,87	0,52	0,02	127,10	44,92	0,49	0,05	239,54	84,66
70	0,66	0,04	142,30	50,29	0,60	0,02	142,30	50,29	0,57	0,06	267,61	94,58
80	0,76	0,04	153,17	54,14	0,70	0,02	155,10	54,82	0,67	0,07	291,97	103,19
90	0,86	0,04	162,41	57,40	0,80	0,02	166,50	58,85	0,74	0,07	314,02	110,99
100	0,95	0,04	169,12	59,77	0,89	0,02	176,90	62,52	0,83	0,08	332,64	117,57
110	1,05	0,04	175,97	62,19	0,99	0,02	186,80	66,02	0,92	0,08	344,40	121,73
120	1,15	0,04	180,29	63,72	1,08	0,02	195,40	69,06	1,00	0,08	359,17	126,95
130	1,25	0,04	184,31	65,14	1,16	0,02	203,50	71,93	1,11	0,08	367,92	130,04
140	1,34	0,04	186,25	65,83	1,26	0,03	210,90	74,54	1,20	0,08	377,44	133,40
150	1,44	0,04	188,78	66,72	1,36	0,03	217,40	76,84	1,28	0,10	382,13	135,06
160	1,54	0,04	189,08	66,83	1,46	0,03	223,60	79,03	1,36	0,10	387,03	136,79
170	1,63	0,04	188,34	66,57	1,56	0,02	229,30	81,04	1,46	0,10	389,83	137,78
180	1,74	0,04	188,04	66,46	1,65	0,02	234,50	82,88	1,56	0,10	389,97	137,83
190	1,84	0,04	187,59	66,30	1,75	0,02	239,40	84,61	1,66	0,10	391,16	138,25
200	1,94	0,04	187,89	66,41	1,85	0,02	244,10	86,28	1,75	0,10	392,28	138,65
210	2,03	0,04	188,04	66,46	1,95	0,01	249,00	88,01	1,84	0,10	392,70	138,80
220	2,13	0,04	187,00	66,09	2,05	0,02	253,40	89,56	1,94	0,10	392,84	138,85
230	2,22	0,04	186,40	65,88	2,15	0,02	257,80	91,12	2,03	0,10	392,21	138,62
240	2,33	0,04	185,95	65,72	2,24	0,02	262,50	92,78	2,12	0,09	392,63	138,77
250	2,42	0,03	185,36	65,51	2,33	0,01	266,10	94,05	2,22	0,09	394,03	139,27
260	2,52	0,03	186,70	65,99	2,44	0,01	269,70	95,32	2,31	0,08	392,56	138,75
270	2,62	0,02	187,14	66,14	2,53	0,01	273,30	96,60	2,41	0,08	392,63	138,77
280	2,72	0,02	188,04	66,46	2,63	0,01	276,90	97,87	2,52	0,08	392,91	138,87
290	2,82	0,02	189,08	66,83	2,73	0,01	279,50	98,79	2,61	0,08	392,84	138,85
300	2,92	0,02	190,12	67,20	2,82	0,01	281,70	99,56	2,71	0,07	392,84	138,85
310	3,01	0,02	191,76	67,78	2,92	0,01	283,60	100,24	2,80	0,06	392,56	138,75
320	3,12	0,02	193,10	68,25	3,01	0,01	285,70	100,98	2,90	0,06	393,47	139,07
330	3,21	0,01	194,15	68,62	3,12	0,01	287,50	101,61	3,00	0,06	390,88	138,15
340	3,31	0,01	193,10	68,25	3,22	0,01	289,30	102,25	3,11	0,06	391,86	138,50
350	3,41	0,01	192,66	68,09	3,31	0,01	290,60	102,71	3,20	0,05	390,95	138,18
360	3,51	0,00	191,76	67,78	3,40	0,01	292,30	103,31	3,31	0,05	391,16	138,25
370	3,62	0,00	191,47	67,67	3,51	0,00	293,60	103,77	3,40	0,05	391,93	138,52
380	3,71	0,00	191,91	67,83	3,60	0,00	294,10	103,95	3,49	0,05	391,65	138,43
390	3,81	0,00	192,36	67,99	3,69	0,01	295,40	104,41	3,59	0,05	392,70	138,80
400	3,91	0,00	191,76	67,78	3,79	0,01	296,30	104,72	3,69	0,05	392,84	138,85
410	4,01	0,00	191,32	67,62	3,90	0,01	297,30	105,08	3,79	0,05	392,70	138,80
420	4,09	0,00	189,83	67,09	3,99	0,01	298,30	105,43	3,89	0,05	392,28	138,65
430	4,20	0,00	190,57	67,36	4,09	0,00	299,30	105,79	4,00	0,05	391,65	138,43
440	4,29	0,00	191,32	67,62	4,19	0,01	300,30	106,14	4,09	0,05	390,46	138,00
450	4,39	0,00	191,02	67,51	4,29	0,00	301,50	106,56	4,20	0,04	391,02	138,20
460	4,49	0,00	192,36	67,99	4,39	0,00	301,80	106,67	4,29	0,04	391,37	138,33
470	4,59	0,00	193,40	68,36	4,49	0,00	302,30	106,85	4,39	0,04	392,14	138,60
480	4,69	0,00	192,06	67,88	4,58	0,00	303,00	107,09	4,48	0,05	391,51	138,38
490	4,79	0,00	192,36	67,99	4,69	0,00	303,10	107,13	4,59	0,05	390,81	138,13
500	4,88	0,00	192,21	67,94	4,78	0,00	303,30	107,20	4,67	0,05	390,32	137,96
510	4,97	0,00	193,10	68,25	4,89	0,00	303,10	107,13	4,78	0,05	390,53	138,03
520	5,08	0,00	192,06	67,88	4,99	0,00	302,90	107,06	4,87	0,05	391,58	138,40
530	5,17	0,00	190,57	67,36	5,09	0,01	302,20	106,81	4,97	0,05	390,11	137,88
540	5,27	0,00	192,06	67,88	5,19	0,01	301,50	106,56	5,08	0,05	390,39	137,98
550	5,37	0,00	192,96	68,20	5,29	0,01	300,80	106,32	5,17	0,06	391,02	138,20
560	5,47	0,00	193,85	68,51	5,38	0,01	299,50	105,86	5,27	0,06	389,13	137,53
570	5,56	0,00	192,96	68,20	5,47	0,01	298,60	105,54	5,37	0,06	391,37	138,33
580	5,66	-0,01	193,55	68,41	5,58	0,01	297,70	105,22	5,47	0,06	391,65	138,43
590	5,76	-0,01	193,40	68,36	5,67	0,00	296,20	104,69	5,56	0,06	392,00	138,55
600	5,86	-0,01	192,96	68,20	5,77	0,01	295,10	104,30	5,66	0,06	392,63	138,77
610	5,95	-0,01	193,85	68,51	5,87	0,01	293,70	103,81	5,76	0,06	393,47	139,07
620	6,04	-0,01	192,96	68,20	5,98	0,01	292,80	103,49	5,86	0,06	393,68	139,14
630	6,14	-0,02	193,85	68,51	6,08	0,01	291,40	102,99	5,95	0,06	394,45	139,42

Certificato 2549	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
640	6,25	-0,02	191,17	67,57	6,17	0,01	290,50	102,67	6,05	0,06	395,15	139,66
650	6,35	-0,02	191,32	67,62	6,26	0,01	289,70	102,39	6,14	0,06	395,43	139,76
660	6,44	-0,02	191,47	67,67	6,36	0,03	288,30	101,90	6,25	0,06	396,83	140,26
670	6,54	-0,02	193,70	68,46	6,45	0,03	286,90	101,40	6,34	0,08	395,99	139,96
680	6,65	-0,02	195,04	68,94	6,55	0,03	285,40	100,87	6,44	0,08	396,55	140,16
690	6,74	-0,02	195,19	68,99	6,65	0,03	284,10	100,41	6,55	0,08	394,94	139,59
700	6,82	-0,02	196,08	69,30	6,75	0,03	283,10	100,06	6,65	0,08	395,08	139,64
710	6,93	-0,02	195,94	69,25	6,86	0,04	281,40	99,46	6,75	0,08	393,54	139,09
720	7,04	-0,02	196,23	69,36	6,95	0,04	280,80	99,25	6,84	0,08	394,31	139,37
730	7,13	-0,02	195,79	69,20	7,04	0,04	279,30	98,72	6,93	0,08	393,96	139,24
740	7,23	-0,02	197,43	69,78	7,14	0,04	278,20	98,33	7,04	0,08	393,47	139,07
750	7,33	-0,02	197,57	69,83	7,23	0,04	276,80	97,83	7,14	0,08	393,68	139,14
760	7,42	-0,02	198,77	70,25	7,33	0,04	275,90	97,51	7,24	0,08	393,12	138,95
770	7,52	-0,02	198,47	70,15	7,43	0,05	274,30	96,95	7,34	0,08	392,91	138,87
780	7,62	-0,02	199,36	70,46	7,54	0,05	272,80	96,42	7,44	0,08	392,07	138,57
790	7,73	-0,02	200,41	70,83	7,63	0,05	271,30	95,89	7,54	0,08	392,70	138,80
800	7,82	-0,02	201,75	71,31	7,73	0,05	269,50	95,25	7,64	0,08	391,86	138,50
810	7,92	-0,02	202,04	71,41	7,84	0,05	268,30	94,83	7,73	0,08	391,16	138,25
820	8,01	-0,02	202,19	71,46	7,92	0,05	266,60	94,23	7,83	0,09	391,09	138,23
830	8,11	-0,02	202,04	71,41	8,03	0,07	265,50	93,84	7,94	0,09	390,32	137,96
840	8,21	-0,02	203,39	71,88	8,12	0,07	264,70	93,56	8,04	0,12	390,74	138,10
850	8,31	-0,02	201,75	71,31	8,22	0,06	263,30	93,06	8,13	0,12	389,13	137,53
860	8,40	-0,02	202,49	71,57	8,32	0,06	262,10	92,64	8,23	0,12	389,83	137,78
870	8,50	-0,02	200,55	70,88	8,43	0,06	261,10	92,28	8,33	0,12	389,69	137,73
880	8,62	-0,02	201,30	71,15	8,52	0,07	259,90	91,86	8,43	0,12	389,83	137,78
890	8,71	-0,02	201,45	71,20	8,62	0,08	258,50	91,36	8,52	0,12	388,99	137,49
900	8,81	-0,02	201,75	71,31	8,72	0,08	256,90	90,80	8,63	0,12	389,62	137,71
910	8,90	-0,02	201,60	71,25	8,81	0,08	255,80	90,41	8,73	0,12	389,76	137,76
920	8,99	-0,03	201,60	71,25	8,92	0,08	254,20	89,84	8,83	0,12	390,81	138,13
930	9,10	-0,03	199,36	70,46	9,01	0,08	252,80	89,35	8,92	0,12	388,85	137,44
940	9,20	-0,03	199,51	70,52	9,11	0,08	251,60	88,93	9,02	0,12	389,76	137,76
950	9,29	-0,03	200,41	70,83	9,21	0,08	250,60	88,57	9,13	0,12	389,62	137,71
960	9,38	-0,03	200,41	70,83	9,31	0,09	249,10	88,04	9,22	0,12	390,53	138,03
970	9,48	-0,03	200,41	70,83	9,41	0,09	248,40	87,79	9,32	0,13	390,11	137,88
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

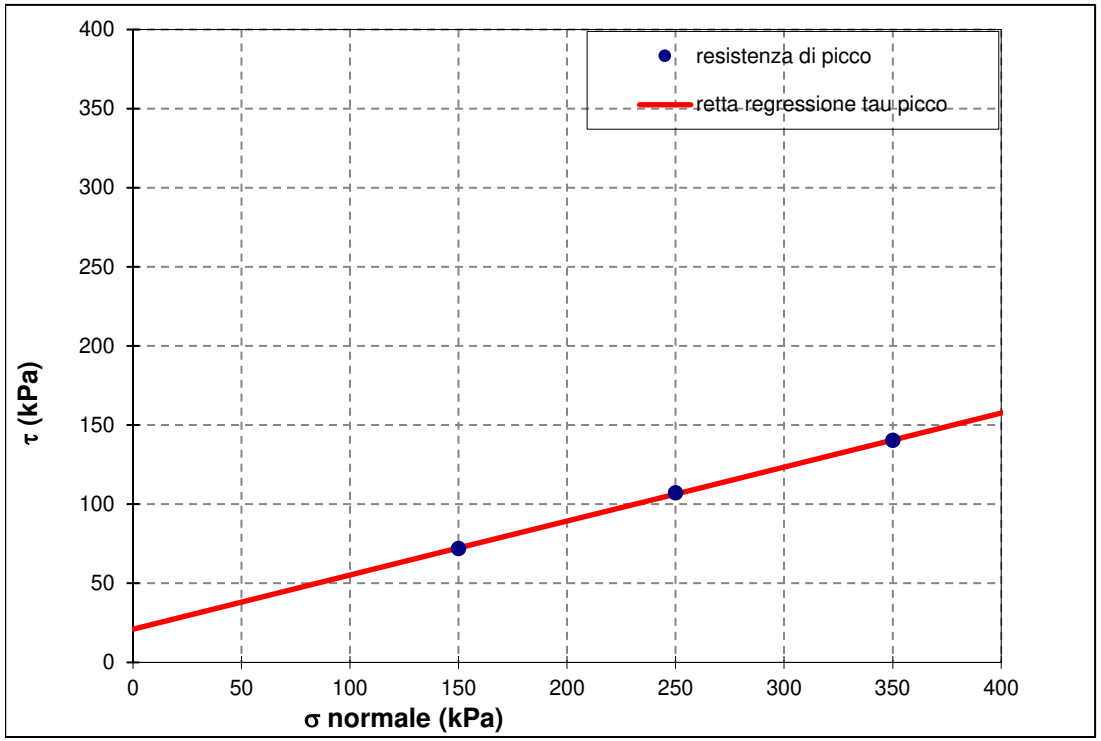
PROVA DI TAGLIO DIRETTO '- INVILUPPO A ROTTURA τ – σ

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO:	S04
CAMPIONE:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Caratteristiche dei provini

Provino	H_0	A_0	γn	γd	W_0	W_f	σ normale	τ di picco	Sh	Velocità
	mm	cm^2	Mg/mc	Mg/mc	%	%	[kPa]	[kPa]	mm	mm/min
T1	19,76	28,29	1,60	0,90	76,64	65,58	150,0	71,88	8,21	0,01
T2	19,76	28,29	1,59	0,90	77,64	67,01	250,0	107,20	4,78	0,01
T3	19,76	28,29	1,59	0,86	83,88	68,54	350,0	140,26	6,25	0,01

c' picco =	ϕ' picco =
kPa	°
20,98	**18,87**



Note

ALTAIR S.R.L.

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2574	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	ST05
CAMPIONE:	CI1 IN CLASSE Q4-Q5
PROFONDITÀ:	6,00-6,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**	0.70 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**	2.5 Y 4/1 dark gray	
Lunghezza Campione (m)	0.55	**Odore**	inodore	
Reazione HCL	debole	**Consistenza**	Media	
Condizioni di Umidità	Umido	**Plasticità** / **Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**	edo	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Argilla con Limo di colore grigio
	1.5		
		3.0	
		2.0	
	1.5		
		2.2	
	1.0		
			-

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi

Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2555**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435)*

data inizio prova	**07/07/2021**	data fine prova	**20/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	ST05
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

Dati provino

Sezione provino	2,00E-03	m2	Peso di volume iniziale	1,82	Mg/mc
Altezza iniziale	0,020	m	Peso di volume finale	2,42	Mg/mc
Altezza finale	0,013	m	Peso di volume secco	1,27	Mg/mc
Num tara 1	1		Contenuto acqua iniziale	43,66	%
Peso tara 1	1,07E-04	Mg	Contenuto acqua finale	27,82	%
Tara + p. umido iniziale	1,80E-04	Mg	Saturazione iniziale	100,00	%
Num tara 2	2		Saturazione finale	100,00	%
Peso tara 2	4,46E-05	Mg	Indice dei vuoti iniziale	1,13	-
Tara + p. umido finale	1,09E-04	Mg	Indice dei vuoti finale	0,43	-
Tara + p. provino secco	9,53E-05	Mg	Peso vol. secco finale	1,89	Mg/mc
Peso specifico grani	2,700	Mg/mc			

IL DIRETTORE DEL LABORATORIO:

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2555	**del 24/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO (ASTM D2435) - Letture cedimenti in funzione del tempo in scala logaritmica

dt	Passo 1	Passo 2	Passo 3	Passo 4	Passo 5	Passo 6	Passo 7	Passo 8	Passo 9	Passo 10	Passo 11	Passo 12	Passo 13	Passo 14	Passo 15	Passo 16	Passo 17	Passo 18	Passo 19	Passo 20	Passo 21	Passo 22
	12,5 kPa	25 kPa	50 kPa	100 kPa	200 kPa	400 kPa	800 kPa	1600 kPa	3200 kPa	6400 kPa	1600 kPa	400 kPa	100 kPa									
	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH	dH
min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0,00	0,0000																					
0,05	0,0180	0,03	0,070	0,235	0,561	1,11	2,07	3,12	4,331	5,57	6,64	6,03	5,09									
0,09	0,0240	0,03	0,071	0,243	0,561	1,17	2,10	3,13	4,353	5,57	6,64	6,01	5,09									
0,14	0,0280	0,03	0,074	0,256	0,603	1,19	2,11	3,15	4,353	5,57	6,64	5,98	5,09									
0,25	0,0300	0,04	0,077	0,263	0,615	1,20	2,12	3,20	4,411	5,57	6,63	5,97	5,09									
0,42	0,0320	0,04	0,081	0,270	0,624	1,22	2,14	3,22	4,457	5,57	6,62	5,96	5,09									
0,71	0,0340	0,04	0,085	0,281	0,641	1,24	2,15	3,24	4,491	5,57	6,60	5,95	5,09									
1,21	0,0350	0,04	0,090	0,293	0,657	1,27	2,18	3,27	4,513	5,57	6,51	5,94	5,09									
2,05	0,0360	0,04	0,097	0,305	0,673	1,29	2,22	3,32	4,567	5,58	6,49	5,92	5,09									
3,49	0,0360	0,05	0,102	0,322	0,692	1,34	2,27	3,37	4,630	5,72	6,47	5,91	5,09									
5,93	0,0360	0,05	0,110	0,340	0,726	1,39	2,32	3,43	4,707	5,81	6,44	5,89	5,09									
10,08	0,0330	0,05	0,124	0,367	0,762	1,44	2,40	3,53	4,805	5,91	6,41	5,86	5,09									
17,14	0,0250	0,05	0,138	0,399	0,814	1,52	2,50	3,65	4,928	6,03	6,37	5,82	5,09									
29,13	0,0120	0,06	0,148	0,433	0,869	1,61	2,63	3,79	5,062	6,17	6,32	5,76	5,09									
49,52	-0,0080	0,06	0,158	0,464	0,932	1,72	2,77	3,93	5,206	6,31	6,27	5,70	5,09									
84,19		0,06	0,164	0,494	0,989	1,83	2,90	4,07	5,338	6,43	6,20	5,57	5,09									
143,12		0,06	0,166	0,514	1,041	1,90	3,00	4,16	5,441	6,52	6,12	5,56	5,09									
243,30		0,06	0,169	0,527	1,070	1,95	3,07	4,22	5,510	6,57	6,07	5,56	5,09									
413,62		0,06	0,189	0,535	1,092	2,00	3,11	4,26	5,557	6,61	6,04	5,56	5,09									
703,15		0,06	0,199	0,543	1,104	2,03	3,12	4,29	5,574	6,63	6,04	5,56	0,00									
1195,35		0,06	0,211	0,548		2,04		4,30		6,64		5,57										
2032,12				0,553																		
3454,60				0,559																		
5872,82																						
ε (%)	0,170	0,268	0,806	2,631	5,352	9,684	15,180	20,913	27,634	32,412	30,200	27,810	25,470									
e	1,130	1,128	1,116	1,077	1,019	0,927	0,810	0,687	0,544	0,442	0,489	0,540	0,590									

ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")

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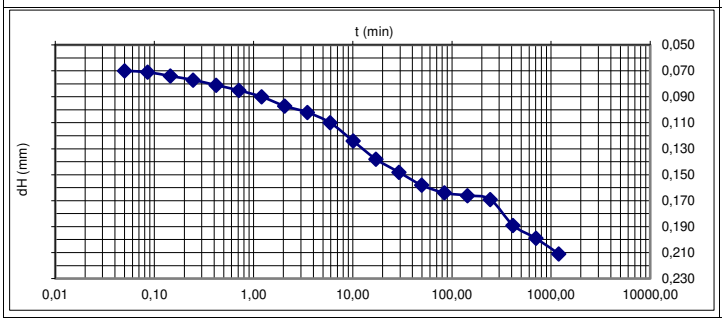
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2555**	**Accettazione**	**2840**
del	**24/07/2021**	**del**	**05/07/2021**

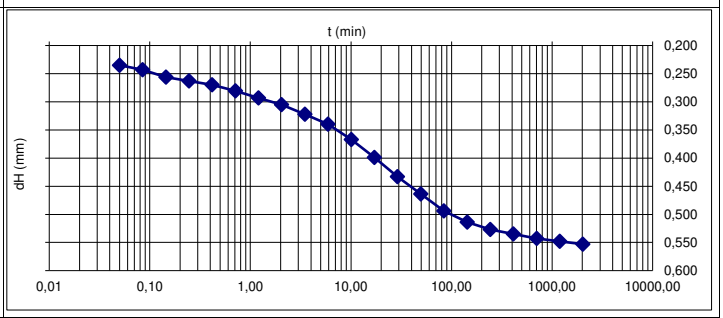
PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Diagrammi cedimento- log del tempo*

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO :	ST05
CAMPIONE:	CI1 IN CLASSE Q4
PROFONDITA' :	6,00-6,50 m

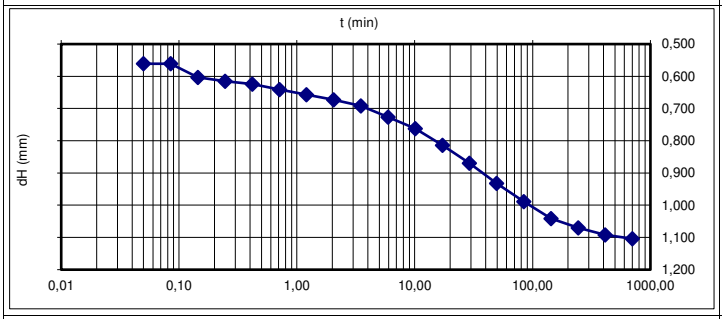
Passo 3 - σv 50 kPa



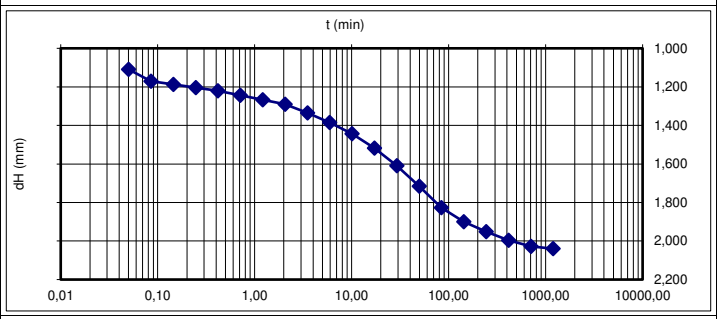
Passo 4 - σv 100 kPa



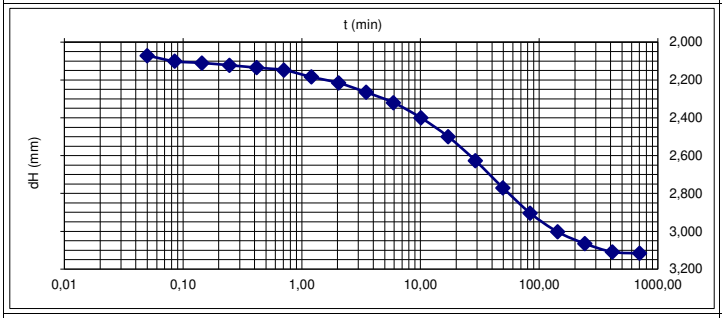
Passo 5 - σv 200 kPa



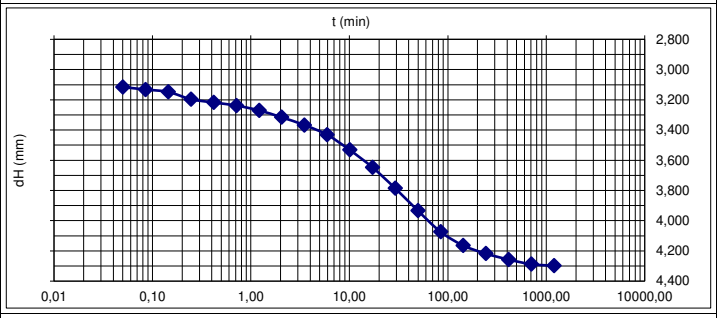
Passo 6 - σv 400 kPa



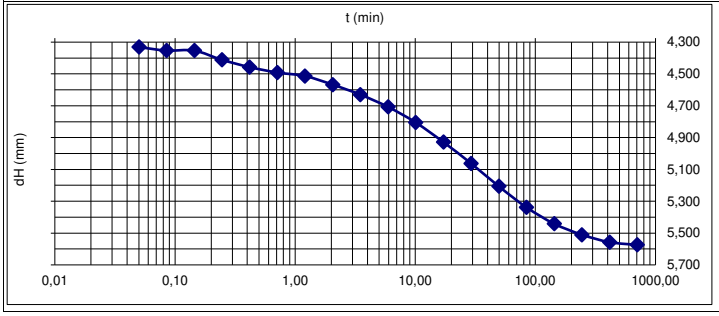
Passo 7 - σv 800 kPa



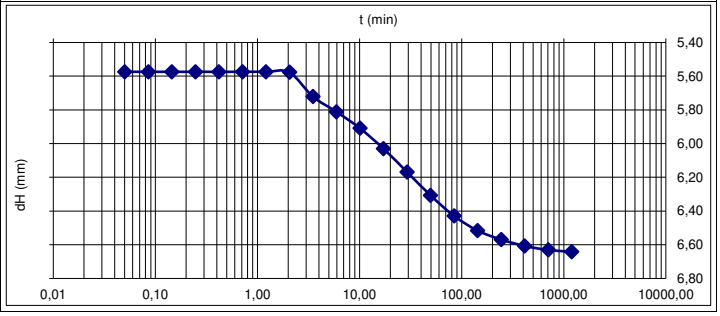
Passo 8 - σv 1600 kPa



Passo 9 - σv 3200 kPa



Passo 10 - σv 6400 kPa

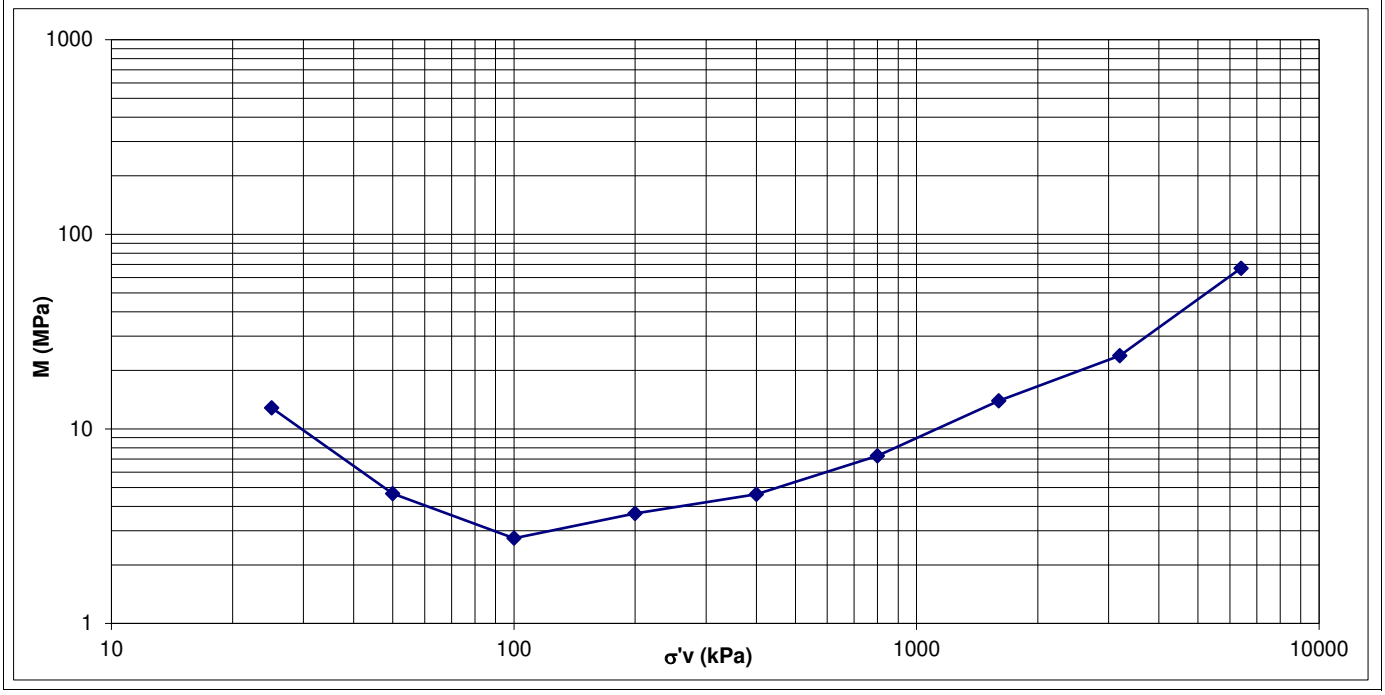


Certificato	**2555**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Tabella riassuntiva*

Passo	σ'_v [kPa]	ε [%]	e [-]	M [MPa]	C_v [cmq/sec]	K [m/sec]	C_α [%]	a_v [MPa-1]
1	12,5	0,170	1,130	rig				
2	25	0,268	1,128	12,82040	2,39E-03	1,83E-10		
3	50	0,806	1,116	4,64578	4,73E-04	9,99E-11		
4	100	2,631	1,077	2,73948	2,75E-04	9,84E-11		
5	200	5,352	1,019	3,67515	1,59E-04	4,25E-11		
6	400	9,684	0,927	4,61605	1,34E-04	2,85E-11		
7	800	15,180	0,810	7,27917	1,11E-04	1,50E-11		
8	1600	20,913	0,687	13,95318	1,31E-04	9,18E-12		
9	3200	27,634	0,544	23,80476	1,21E-04	5,00E-12		
10	6400	32,412	0,442	66,97784	9,41E-05	1,38E-12		
11	1600	30,200	0,489					
12	400	27,810	0,540					
13	100	25,470	0,590					

Grafico di confronto tra la pressione verticale applicata **σ' v** (kPa) e il modulo edometrico **M**

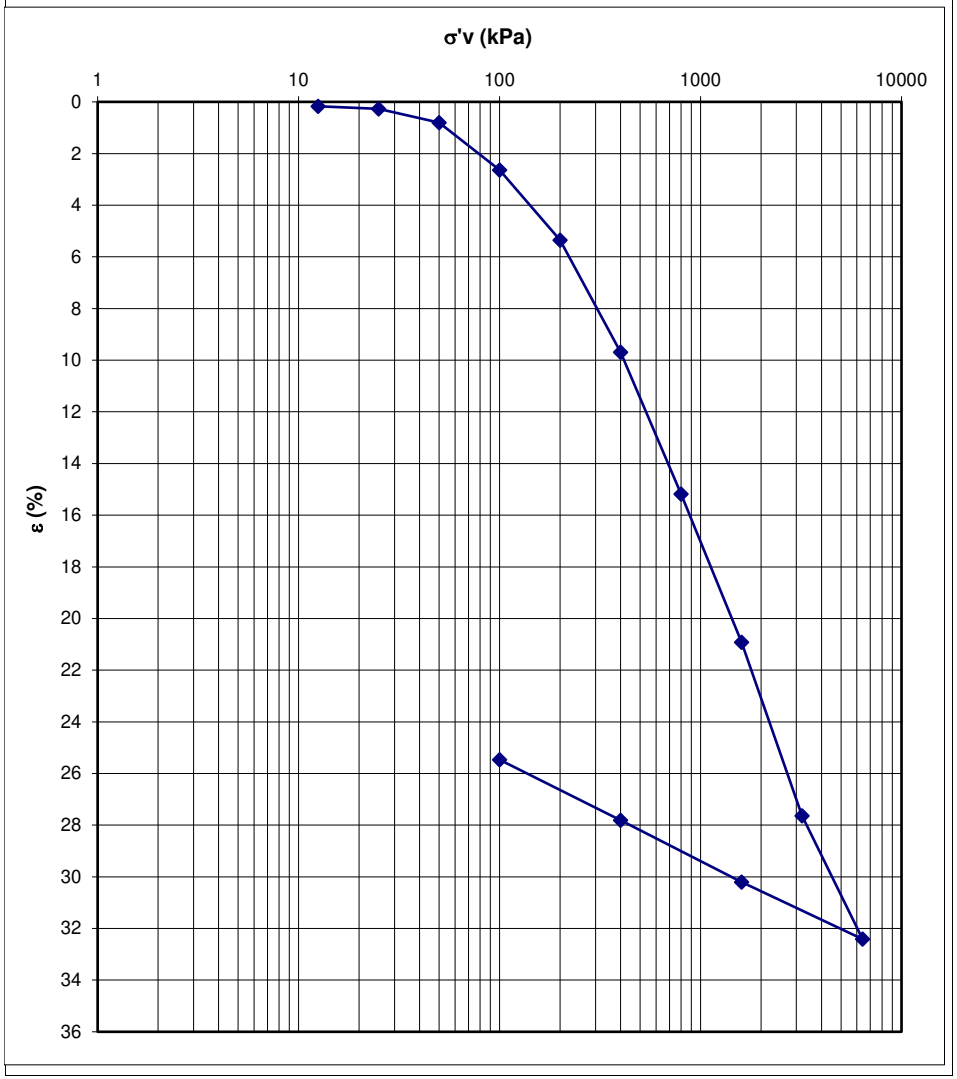


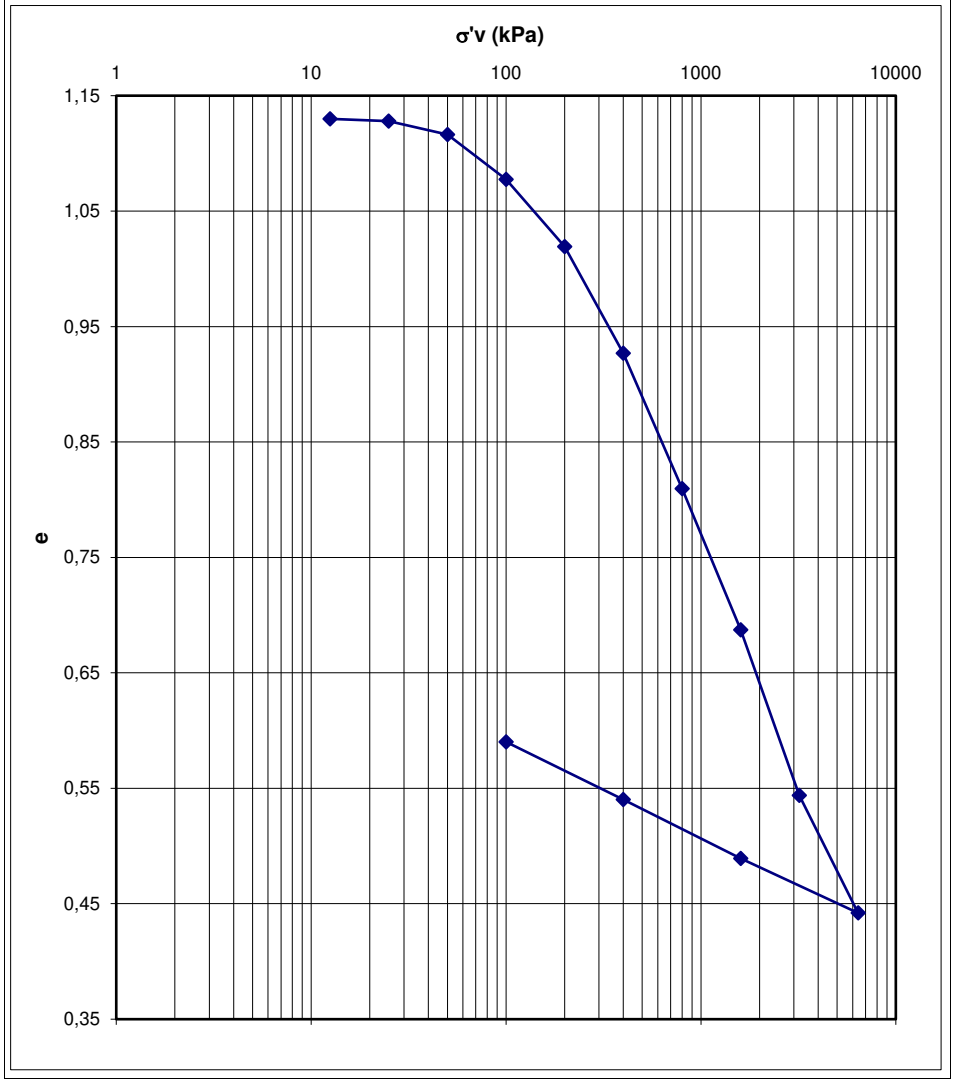
ALTAIR SRL

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato	**2555**	**del 24/07/2021**	**Accettazione**	**2840**	**del 05/07/2021**

PROVA EDOMETRICA A GRADINI DI CARICO *(ASTM D2435) Grafici tra la pressione verticale* ***σ' v*** *(kPa), la deformazione verticale* ***ε*** *e l'indice dei vuoti* ***e***





ALTAIR S.R.L.

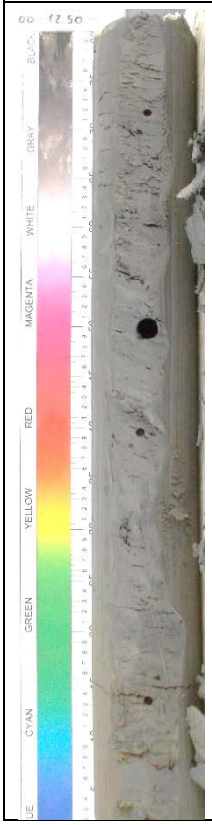
Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001:2008 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2575	**Del 26/07/2021**	**Accettazione 2840**	**del 05/07/2021**

DESCRIZIONE CAMPIONE INDISTURBATO (*ASTM D2488*)	Data inizio prova **07/07/2021**	Data fine prova **07/07/2021**

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITÀ:	POGGIO RENATICO (FE)
SONDAGGIO:	ST05
CAMPIONE:	CI2 IN CLASSE Q4-Q5
PROFONDITÀ:	12,00-12,50 m

Condizioni Fustella	Buone	**Dimensioni Fustella (m)**	0.75 lunghezza	0.085 diametro
Condizioni Campione	Buone	**Colore (Munsell Soil Charts)**	2.5 Y 4/1 dark gray	
Lunghezza Campione (m)	0.62	**Odore**	inodore	
Reazione HCL	debole	**Consistenza**	Media	
Condizioni di Umidità	Umido	**Plasticità** / **Coesione**	elevata	elevata
Strutture	laminato	**Prove di Laboratorio**	taglio	

Documentazione Fotografica	Poket pen. (kg/cmq)	VaneTest (kg/cmq)	Descrizione
			Limo con Argilla Sabbioso di colore grigio
	1.3		
		3.0	
	1.25		
	1.25		
			-

Capitale Sociale € 95.000,00.- i.v. Sede Legale Via E. Pagliano, 37 20149 MILANO Laboratorio: Via A. Martini, 11 20092 Laboratorio: Via A. Martini, 11 20092 CINISELLO BALSAMO (MI) Tel. 0261293850 r.a. Fax 0261770281 E- E-mail:info@geoaltair.it
P.E.C.:altairsrl1@legalmail.it R.E.A. n. 1198777 – Registro Imprese Milano / C.F. / p.IVA n. 08041580153

IL DIRETTORE DEL LABORATORIO

ALTAIR S.R.L.

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2550	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO *(ASTM D3080)*

data inizio prova	08/07/2021	data fine prova	14/07/2021

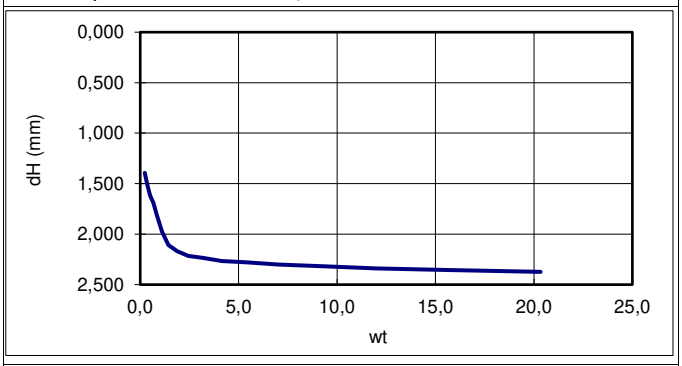
COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
CAMPIONE:	ST05
SONDAGGIO:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Dati Provini		σ_v (kPa)	σ_v (kPa)	σ_v (kPa)
		150,0	250,0	350,0
Sezione provino	mmq	28293,19	28293,19	28293,19
Altezza iniziale	mm	19,76	19,76	19,76
Altezza finale	mm	17,32	17,00	16,76
Peso tara 1	Mg	4,47E-05	4,47E-05	4,47E-05
Tara + p. umido iniziale	Mg	1,45E-04	1,45E-04	1,45E-04
Peso tara 2	Mg	5,43E-05	4,07E-05	5,13E-05
Tara + p. umido finale	Mg	1,51E-04	1,37E-04	1,49E-04
Tara + p. provino secco	Mg	1,23E-04	1,09E-04	1,21E-04
Peso di volume iniziale	Mg/mc	1,79	1,79	1,79
Peso di volume finale	Mg/mc	1,98	2,00	2,06
Peso di volume secco	Mg/mc	1,23	1,22	1,24
Contenuto acqua iniziale	%	45,43	46,09	43,67
Contenuto acqua finale	%	40,48	40,91	40,25
Saturazione iniziale	%	100,00	100,00	100,00
Saturazione finale	%	100,00	100,00	100,00
Indice dei vuoti iniziale	-	1,19	1,21	1,17
Indice dei vuoti finale	-	0,92	0,90	0,84
Peso vol. secco finale	Mg/mc	1,41	1,42	1,47
Altezza fine consolidazione	mm	17,38	17,08	16,82
Valore t_{100}	min	2,90	3,40	4,10

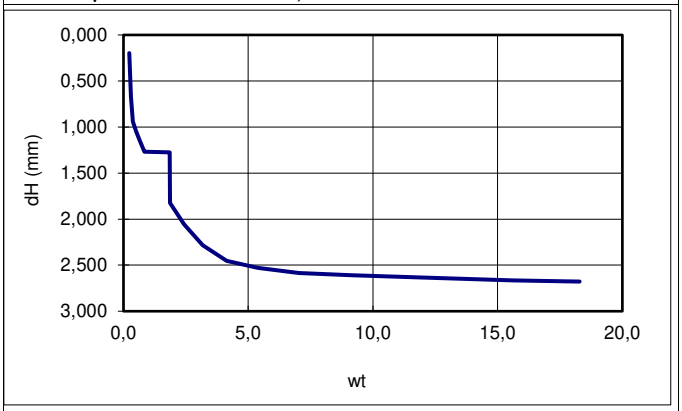
Letture Tempi - Cedimenti		σ_v (KpA)	σ_v (KpA)	σ_v (KpA)
		150,0	250,0	350,0
[min]	letture	dH	dH	dH
	n.	[mm]	[mm]	[mm]
0,05	1	0,00	0,00	0,00
0,09	2	1,45	0,68	1,90
0,15	3	1,52	0,94	2,15
0,25	4	1,62	1,05	2,32
0,44	5	1,69	1,14	2,41
0,71	6	1,81	1,27	2,56
1,21	7	1,97	1,28	2,64
2,05	8	2,11	1,28	2,73
3,49	9	2,17	1,82	2,79
5,93	10	2,21	2,06	2,84
10,08	11	2,24	2,28	2,87
17,14	12	2,27	2,45	2,88
29,13	13	2,28	2,53	2,90
49,53	14	2,30	2,59	2,91
84,19	15	2,32	2,61	2,92
143,12	16	2,34	2,63	2,93
243,31	17	2,36	2,67	2,94
413,62	18	2,37	2,68	2,94
0,00	19	0,00	0,00	0,00
0,00	20	0,00	0,00	0,00
0,00	21	0,00	0,00	0,00

Grafici Cedimenti dh/√t

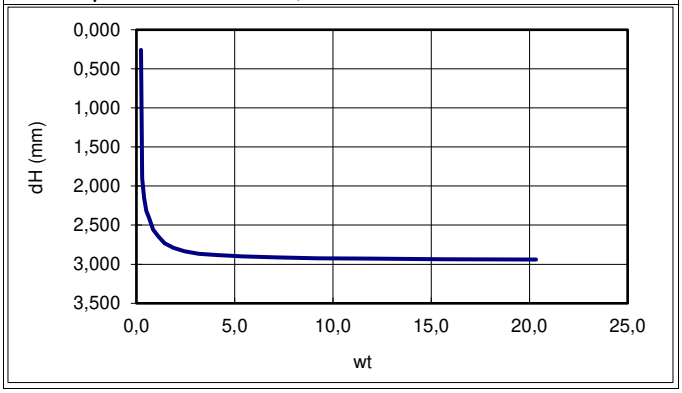
σ_v 150,0 kPa



σ_v 250,0 kPa



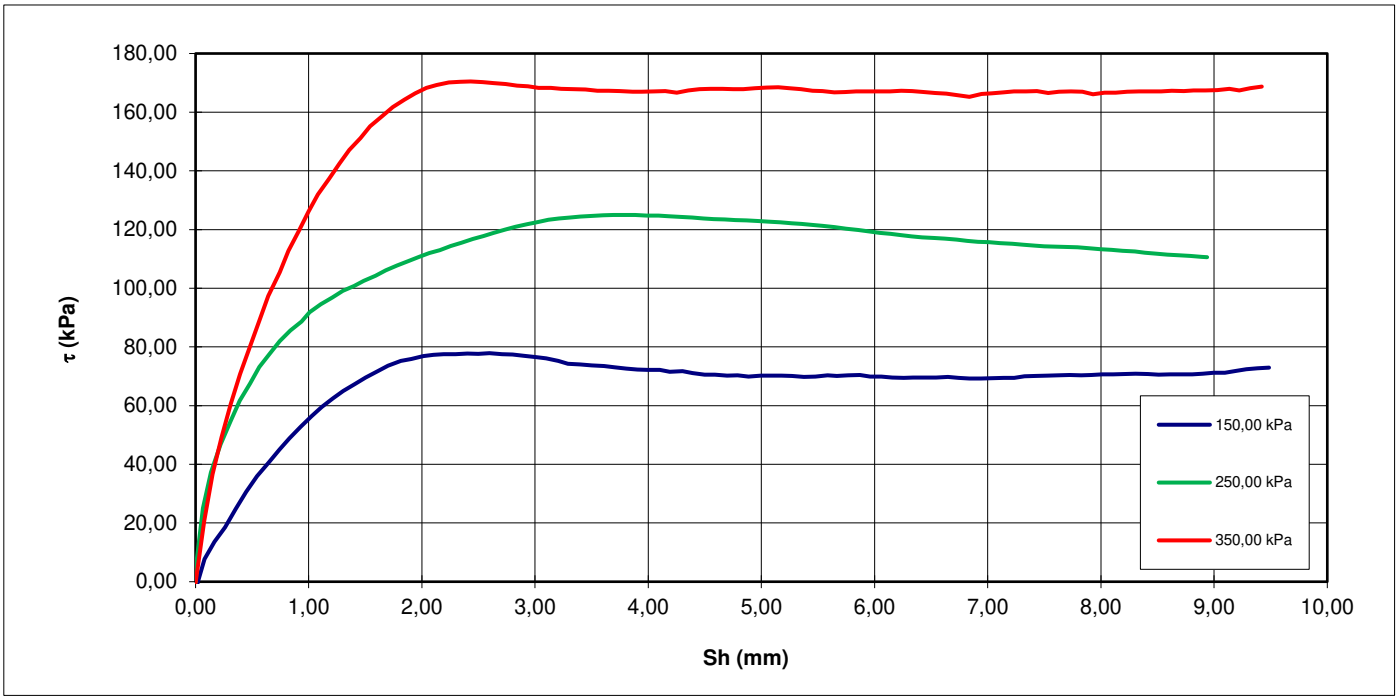
σ_v 350,0 kPa



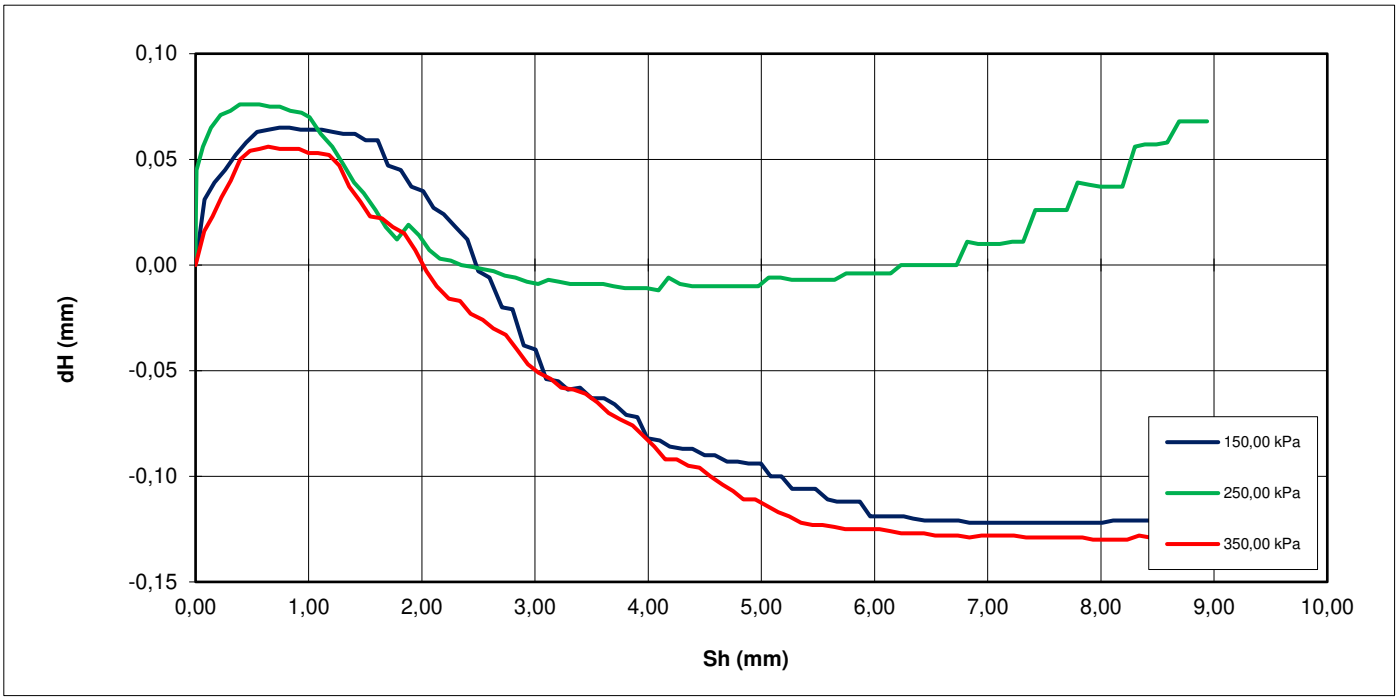
IL DIRETTORE DEL LABORATORIO:

Certificato 2550	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICO (t Sh) ASTM D3080



PROVA DI TAGLIO DIRETTO FASE DI ROTTURA
GRAFICI (deformazione verticale/scorrimento orizzontale) ASTM D3080



Certificato 2550	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
0	0,00	0,00	-7,70	-2,72	0,00	0,00	-0,60	-0,21	0,00	0,00	-1,01	-0,36
10	0,08	0,03	21,98	7,77	0,00	0,01	0,80	0,28	0,08	0,02	58,72	20,75
20	0,17	0,04	38,50	13,61	0,00	0,03	0,70	0,25	0,15	0,02	103,49	36,58
30	0,26	0,05	52,36	18,51	0,01	0,05	19,10	6,75	0,23	0,03	139,27	49,22
40	0,35	0,05	70,00	24,74	0,07	0,06	70,90	25,06	0,31	0,04	171,44	60,60
50	0,45	0,06	86,66	30,63	0,14	0,07	105,40	37,25	0,39	0,05	200,17	70,75
60	0,54	0,06	101,78	35,97	0,22	0,07	132,40	46,80	0,48	0,05	226,63	80,10
70	0,64	0,06	114,66	40,53	0,31	0,07	154,70	54,68	0,57	0,06	252,34	89,19
80	0,74	0,07	127,26	44,98	0,39	0,08	174,50	61,68	0,64	0,06	275,52	97,38
90	0,83	0,07	138,18	48,84	0,48	0,08	191,00	67,51	0,74	0,06	298,45	105,49
100	0,93	0,06	149,24	52,75	0,56	0,08	206,90	73,13	0,82	0,06	318,95	112,73
110	1,02	0,06	159,60	56,41	0,66	0,08	220,10	77,79	0,91	0,06	338,44	119,62
120	1,12	0,06	168,56	59,58	0,74	0,08	232,10	82,03	1,00	0,05	357,08	126,21
130	1,21	0,06	176,68	62,45	0,84	0,07	242,10	85,57	1,08	0,05	373,38	131,97
140	1,30	0,06	183,96	65,02	0,94	0,07	250,90	88,68	1,18	0,05	388,50	137,31
150	1,41	0,06	190,68	67,39	1,01	0,07	259,70	91,79	1,27	0,05	403,03	142,45
160	1,50	0,06	196,84	69,57	1,11	0,06	267,60	94,58	1,36	0,04	416,14	147,08
170	1,61	0,06	203,14	71,80	1,21	0,06	274,10	96,88	1,46	0,03	427,73	151,18
180	1,70	0,05	208,18	73,58	1,30	0,05	280,50	99,14	1,54	0,02	439,07	155,19
190	1,81	0,05	212,80	75,21	1,40	0,04	285,20	100,80	1,65	0,02	448,64	158,57
200	1,91	0,04	214,62	75,86	1,49	0,03	290,10	102,53	1,74	0,02	457,46	161,69
210	2,01	0,04	217,56	76,89	1,59	0,03	295,10	104,30	1,85	0,02	464,86	164,30
220	2,10	0,03	218,68	77,29	1,68	0,02	300,20	106,10	1,94	0,01	470,82	166,41
230	2,19	0,02	219,24	77,49	1,78	0,01	304,70	107,69	2,04	0,00	476,11	168,28
240	2,30	0,02	219,38	77,54	1,88	0,02	309,10	109,25	2,13	-0,01	479,05	169,32
250	2,40	0,01	219,94	77,74	1,98	0,01	313,30	110,73	2,24	-0,02	481,24	170,09
260	2,50	0,00	219,80	77,69	2,07	0,01	316,80	111,97	2,34	-0,02	482,08	170,39
270	2,60	-0,01	220,36	77,88	2,16	0,00	319,80	113,03	2,43	-0,02	482,33	170,47
280	2,71	-0,02	219,38	77,54	2,26	0,00	323,60	114,37	2,54	-0,03	481,82	170,30
290	2,80	-0,02	218,96	77,39	2,35	0,00	326,90	115,54	2,63	-0,03	480,82	169,94
300	2,90	-0,04	217,98	77,04	2,45	0,00	330,60	116,85	2,74	-0,03	479,81	169,58
310	3,00	-0,04	216,72	76,60	2,54	0,00	333,30	117,80	2,84	-0,04	478,30	169,05
320	3,10	-0,05	215,46	76,15	2,64	0,00	336,20	118,83	2,94	-0,05	477,54	168,78
330	3,21	-0,06	212,80	75,21	2,73	-0,01	339,40	119,96	3,03	-0,05	476,28	168,34
340	3,29	-0,06	210,14	74,27	2,83	-0,01	342,30	120,98	3,14	-0,05	476,03	168,25
350	3,40	-0,06	209,58	74,07	2,93	-0,01	344,70	121,83	3,23	-0,06	475,19	167,95
360	3,50	-0,06	208,60	73,73	3,03	-0,01	346,80	122,57	3,34	-0,06	474,85	167,83
370	3,61	-0,06	207,90	73,48	3,12	-0,01	348,90	123,32	3,45	-0,06	474,60	167,74
380	3,70	-0,07	206,64	73,04	3,21	-0,01	350,20	123,78	3,55	-0,07	473,51	167,36
390	3,81	-0,07	205,38	72,59	3,31	-0,01	351,20	124,13	3,65	-0,07	473,26	167,27
400	3,90	-0,07	204,68	72,34	3,40	-0,01	352,00	124,41	3,75	-0,07	473,09	167,21
410	3,99	-0,08	204,12	72,14	3,50	-0,01	352,70	124,66	3,86	-0,08	472,42	166,97
420	4,10	-0,08	204,12	72,14	3,60	-0,01	353,30	124,87	3,94	-0,08	472,50	167,00
430	4,19	-0,09	202,44	71,55	3,69	-0,01	353,60	124,98	4,05	-0,09	472,58	167,03
440	4,30	-0,09	203,00	71,75	3,79	-0,01	353,60	124,98	4,15	-0,09	473,00	167,18
450	4,39	-0,09	201,18	71,11	3,89	-0,01	353,60	124,98	4,25	-0,09	471,41	166,62
460	4,50	-0,09	199,64	70,56	3,99	-0,01	353,10	124,80	4,35	-0,10	473,59	167,39
470	4,59	-0,09	199,64	70,56	4,09	-0,01	352,90	124,73	4,45	-0,10	474,94	167,86
480	4,70	-0,09	198,66	70,21	4,18	-0,01	352,40	124,55	4,55	-0,10	475,19	167,95
490	4,79	-0,09	199,08	70,36	4,28	-0,01	351,90	124,38	4,66	-0,10	475,19	167,95
500	4,89	-0,09	197,82	69,92	4,39	-0,01	351,20	124,13	4,75	-0,11	474,85	167,83
510	5,00	-0,09	198,80	70,26	4,49	-0,01	350,30	123,81	4,84	-0,11	475,02	167,89
520	5,08	-0,10	198,66	70,21	4,58	-0,01	349,60	123,56	4,95	-0,11	475,94	168,22
530	5,18	-0,10	198,80	70,26	4,68	-0,01	349,20	123,42	5,05	-0,11	476,45	168,40
540	5,27	-0,11	198,38	70,12	4,77	-0,01	348,70	123,25	5,15	-0,12	476,78	168,52
550	5,37	-0,11	197,40	69,77	4,87	-0,01	348,30	123,10	5,24	-0,12	475,94	168,22
560	5,48	-0,11	197,68	69,87	4,97	-0,01	347,70	122,89	5,35	-0,12	474,85	167,83
570	5,58	-0,11	198,94	70,31	5,06	-0,01	347,10	122,68	5,45	-0,12	473,51	167,36
580	5,67	-0,11	198,52	70,17	5,17	-0,01	346,60	122,50	5,54	-0,12	473,00	167,18
590	5,77	-0,11	199,08	70,36	5,27	-0,01	345,50	122,11	5,64	-0,12	471,74	166,73
600	5,87	-0,11	199,36	70,46	5,36	-0,01	345,00	121,94	5,74	-0,13	472,08	166,85
610	5,96	-0,12	197,82	69,92	5,45	-0,01	344,10	121,62	5,84	-0,13	472,67	167,06
620	6,06	-0,12	197,82	69,92	5,54	-0,01	343,00	121,23	5,93	-0,13	472,67	167,06
630	6,16	-0,12	196,98	69,62	5,65	-0,01	342,00	120,88	6,04	-0,13	472,75	167,09

ALTAIR S.R.L.

Laboratorio Autorizzato dal Ministero delle Infrastrutture e dei Trasporti prove terre (settore "a") e rocce (settore "b")
D.P.R. 06.06.2001 n.380 art. 59 - Circ. 7618/STC del 08.09.2010 Autorizzazione n. 52505 del 11.10.2004 e successivi rinnovi
Laboratorio Certificato UNI EN ISO 9001 ICMQ n.11353 del 28.10.2011 e successivi rinnovi

Certificato 2550	**del 23/07/2021**	**Accettazione 2840**	**del 05/07/2021**

PROVA DI TAGLIO DIRETTO FASE DI ROTTURA ' - DATI SPERIMENTALI

	σ_v	150,00	kPa		σ_v	250,00	kPa		σ_v	350,00	kPa	
dt (min)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)	Sh (mm)	dH (mm)	F (N)	τ (kPa)
640	6,26	-0,12	196,56	69,47	5,75	0,00	340,40	120,31	6,14	-0,13	472,58	167,03
650	6,34	-0,12	196,84	69,57	5,86	0,00	339,10	119,85	6,24	-0,13	473,51	167,36
660	6,44	-0,12	196,84	69,57	5,94	0,00	337,90	119,43	6,33	-0,13	473,17	167,24
670	6,54	-0,12	196,98	69,62	6,05	0,00	336,30	118,86	6,44	-0,13	472,16	166,88
680	6,65	-0,12	197,40	69,77	6,14	0,00	335,40	118,54	6,54	-0,13	471,16	166,53
690	6,74	-0,12	196,42	69,42	6,23	0,00	334,30	118,16	6,63	-0,13	470,65	166,35
700	6,84	-0,12	196,00	69,27	6,33	0,00	332,80	117,63	6,74	-0,13	469,06	165,78
710	6,94	-0,12	196,00	69,27	6,42	0,00	332,10	117,38	6,84	-0,13	467,63	165,28
720	7,04	-0,12	196,28	69,37	6,53	0,00	331,40	117,13	6,95	-0,13	470,23	166,20
730	7,14	-0,12	196,56	69,47	6,62	0,00	330,80	116,92	7,04	-0,13	470,90	166,44
740	7,23	-0,12	196,56	69,47	6,73	0,00	329,70	116,53	7,14	-0,13	471,83	166,76
750	7,33	-0,12	197,96	69,97	6,82	0,01	328,50	116,11	7,23	-0,13	472,58	167,03
760	7,42	-0,12	198,24	70,07	6,91	0,01	327,70	115,82	7,34	-0,13	472,84	167,12
770	7,53	-0,12	198,80	70,26	7,01	0,01	327,40	115,72	7,43	-0,13	473,00	167,18
780	7,62	-0,12	199,08	70,36	7,11	0,01	326,60	115,43	7,53	-0,13	471,16	166,53
790	7,72	-0,12	199,36	70,46	7,22	0,01	325,90	115,19	7,63	-0,13	472,42	166,97
800	7,82	-0,12	198,94	70,31	7,31	0,01	324,80	114,80	7,73	-0,13	472,67	167,06
810	7,92	-0,12	199,22	70,41	7,42	0,03	324,00	114,52	7,84	-0,13	472,33	166,94
820	8,01	-0,12	200,06	70,71	7,50	0,03	323,30	114,27	7,93	-0,13	469,90	166,08
830	8,11	-0,12	199,92	70,66	7,60	0,03	323,00	114,16	8,03	-0,13	471,58	166,67
840	8,21	-0,12	200,34	70,81	7,70	0,03	322,70	114,06	8,13	-0,13	471,58	166,67
850	8,31	-0,12	200,48	70,86	7,80	0,04	322,30	113,91	8,23	-0,13	472,42	166,97
860	8,42	-0,12	200,20	70,76	7,90	0,04	321,60	113,67	8,34	-0,13	472,67	167,06
870	8,51	-0,12	199,64	70,56	8,00	0,04	320,70	113,35	8,43	-0,13	472,67	167,06
880	8,61	-0,12	199,78	70,61	8,10	0,04	320,00	113,10	8,53	-0,13	472,84	167,12
890	8,71	-0,12	199,92	70,66	8,19	0,04	318,90	112,71	8,63	-0,13	473,51	167,36
900	8,81	-0,12	200,06	70,71	8,30	0,06	318,40	112,54	8,73	-0,13	473,00	167,18
910	8,90	-0,12	200,62	70,91	8,39	0,06	317,30	112,15	8,82	-0,13	473,59	167,39
920	9,00	-0,12	201,32	71,15	8,49	0,06	316,20	111,76	8,92	-0,13	473,76	167,45
930	9,10	-0,12	201,60	71,25	8,59	0,06	315,50	111,51	9,03	-0,13	474,01	167,54
940	9,20	-0,12	203,42	71,90	8,69	0,07	314,80	111,26	9,13	-0,13	475,27	167,98
950	9,29	-0,12	204,96	72,44	8,79	0,07	314,20	111,05	9,22	-0,13	473,59	167,39
960	9,38	-0,12	205,66	72,69	8,89	0,07	313,10	110,66	9,32	-0,13	475,86	168,19
970	9,49	-0,12	206,36	72,94	8,94	0,07	312,80	110,56	9,42	-0,13	477,29	168,69
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
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0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
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0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
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0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

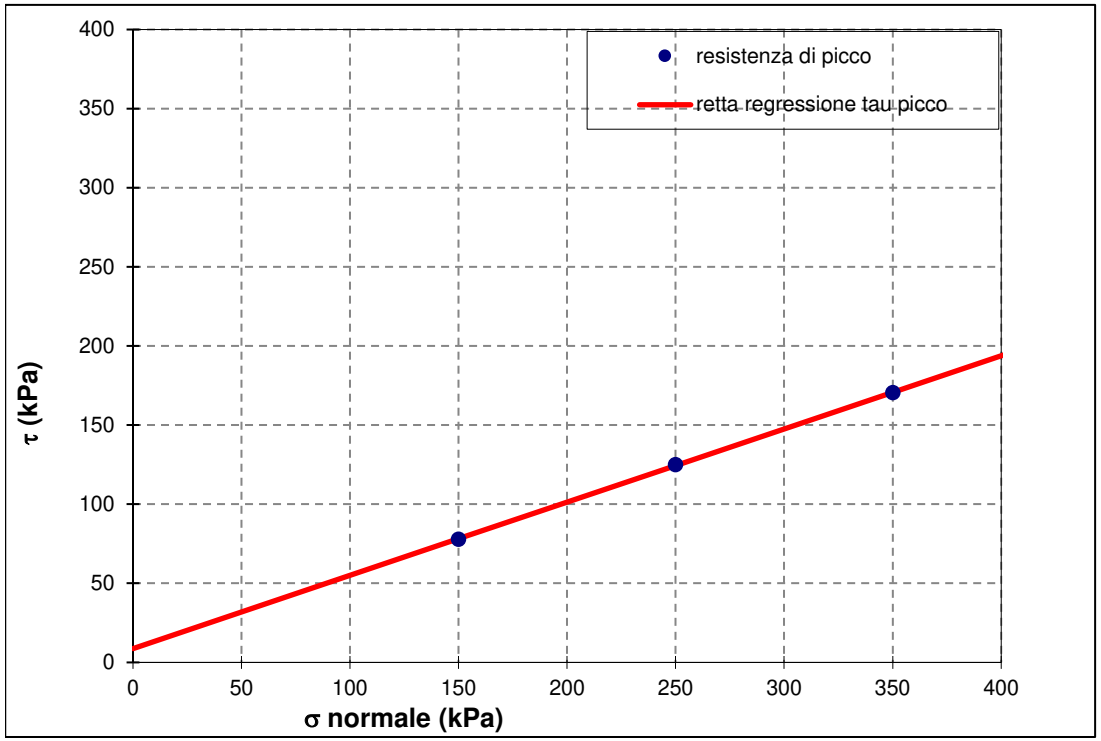
PROVA DI TAGLIO DIRETTO '- INVILUPPO A ROTTURA τ – σ

COMMITTENTE:	TERNA
COMMESSA:	-
LOCALITA':	POGGIO RENATICO (FE)
SONDAGGIO:	ST05
CAMPIONE:	CI2 IN CLASSE Q4
PROFONDITA':	12,00-12,50 m

Caratteristiche dei provini

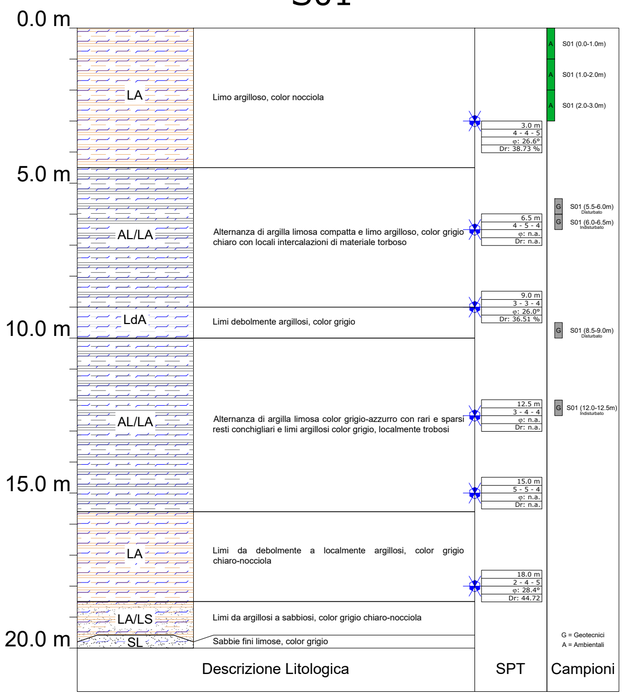
Provino	H_0	A_0	γn	γd	W_0	W_f	σ normale	τ di picco	Sh	Velocità
	mm	cm^2	Mg/mc	Mg/mc	%	%	[kPa]	[kPa]	mm	mm/min
T1	19,76	28,29	1,79	1,23	45,43	40,48	150,0	77,88	2,60	0,01
T2	19,76	28,29	1,79	1,22	46,09	40,91	250,0	124,98	3,69	0,01
T3	19,76	28,29	1,79	1,24	43,67	40,25	350,0	170,47	2,43	0,01

c' picco =	ϕ' picco =
kPa	°
8,71	**24,84**



Note

S01



LEGENDA

a Ghiaia
b a - con ghiaia
c b - ghiaioso
c - debolmente ghiaioso

a Sabbia
b a - con sabbia
c b - sabbioso
c - debolmente sabbioso

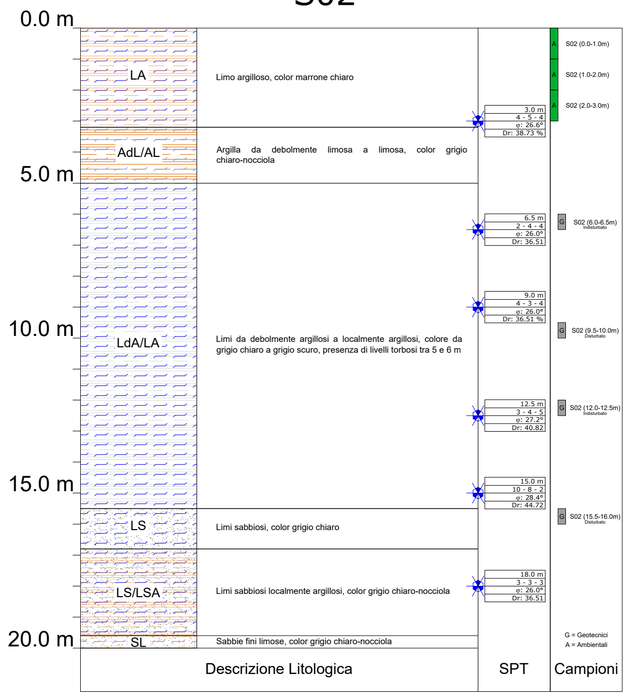
a Limo
b a - con limo
c b - limoso
c - debolmente limoso

a Argilla
b a - con argilla
c b - argilloso
c - debolmente argilloso

Ciottoli

Trovante

S02



LEGENDA

a Ghiaia
b a - con ghiaia
c b - ghiaioso
c - debolmente ghiaioso

a Sabbia
b a - con sabbia
c b - sabbioso
c - debolmente sabbioso

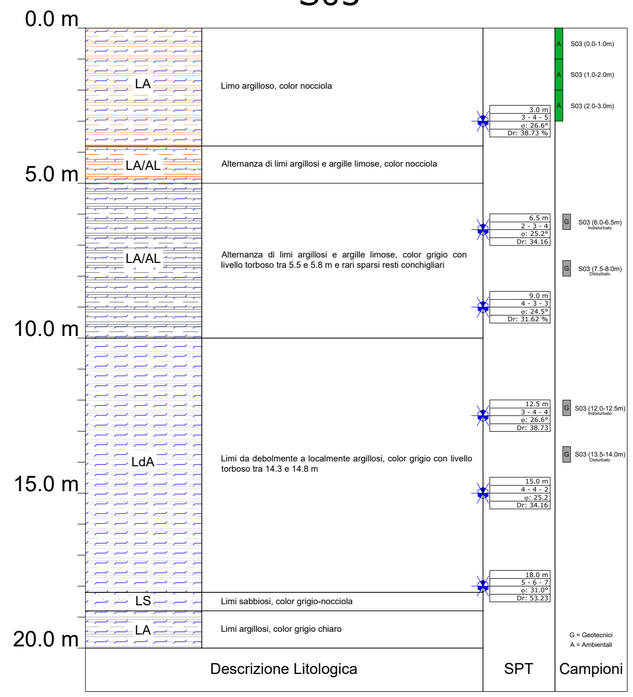
a Limo
b a - con limo
c b - limoso
c - debolmente limoso

a Argilla
b a - con argilla
c b - argilloso
c - debolmente argilloso

Ciottoli

Trovante

S03



LEGENDA

a Ghiaia
b a - con ghiaia
c b - ghiaioso
c - debolmente ghiaioso

a Sabbia
b a - con sabbia
c b - sabbioso
c - debolmente sabbioso

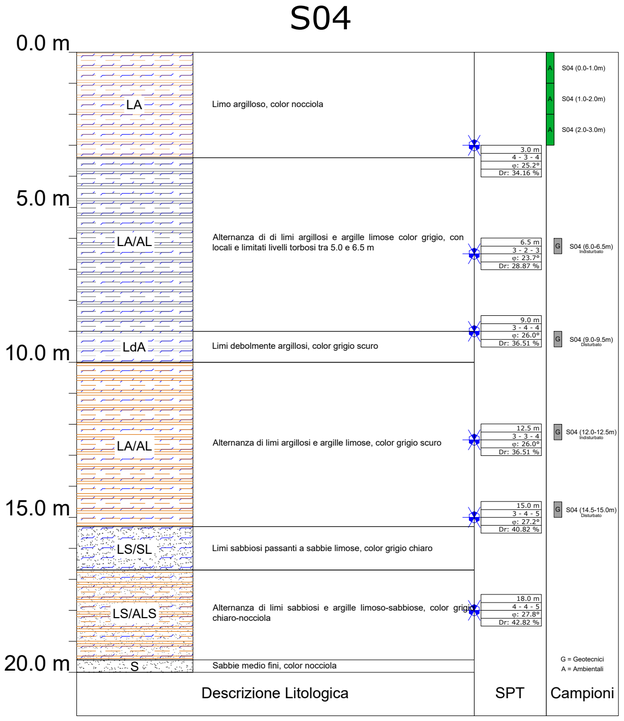
a Limo
b a - con limo
c b - limoso
c - debolmente limoso

a Argilla
b a - con argilla
c b - argilloso
c - debolmente argilloso

Ciottoli

Trovante

S04



LEGENDA

a Ghiaia
b a - con ghiaia
c b - ghiaioso
c - debolmente ghiaioso

a Sabbia
b a - con sabbia
c b - sabbioso
c - debolmente sabbioso

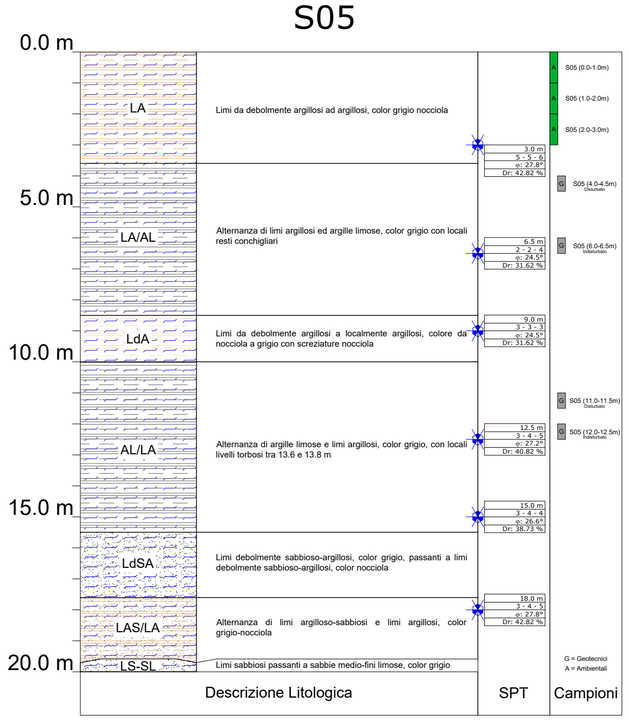
a Limo
b a - con limo
c b - limoso
c - debolmente limoso

a Argilla
b a - con argilla
c b - argilloso
c - debolmente argilloso

Ciottoli

Trovante

S05



LEGENDA

a Ghiaia
b a - con ghiaia
c b - ghiaioso
c - debolmente ghiaioso

a Sabbia
b a - con sabbia
c b - sabbioso
c - debolmente sabbioso

a Limo
b a - con limo
c b - limoso
c - debolmente limoso

a Argilla
b a - con argilla
c b - argilloso
c - debolmente argilloso

Ciottoli

Trovante

REVISIONI

N.	DATA	DESCRIZIONE	ESAMINATO	ACCETTATO
02	21/07/2022	Modificato a seguito variazione del tracciato MT	LO	AU
01	06/08/2021	Modificato a seguito sorveglianza Terna	NBI	DF
00	27/07/2021	Prima emissione	NBI	AU

NUMERO E DATA ORDINE: L.A. n 4000085030 del 07/04/2021

MOTIVO DELL'INVIO: ☒ PER ACCETTAZIONE ☐ PER INFORMAZIONE

CODIFICA ELABORATO

RUDR21003B2132236_rev02 (Tavola 1)

TITOLO ELABORATO

STUDIO GEOLOGICO, GEOTECNICO E DI COMPATIBILITA' GEOMORFOLOGICA A SUPPORTO DEL PROGETTO DEFINITO

Stazione Elettrica 132kV di Poggio Renatico (FE) e Raccordi alla RTN ed Opere Connesse

Sezioni Geologico-Tecniche

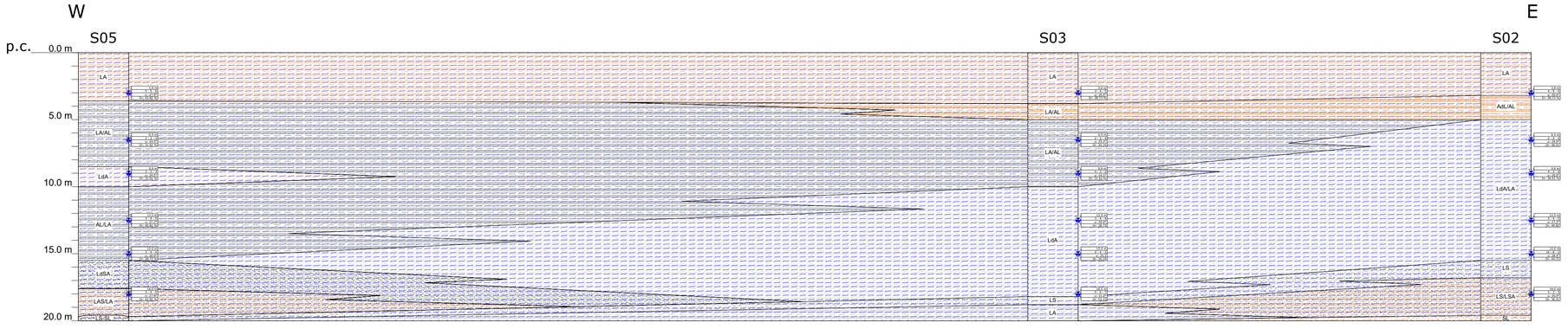
TIPOLOGIA ELABORATO

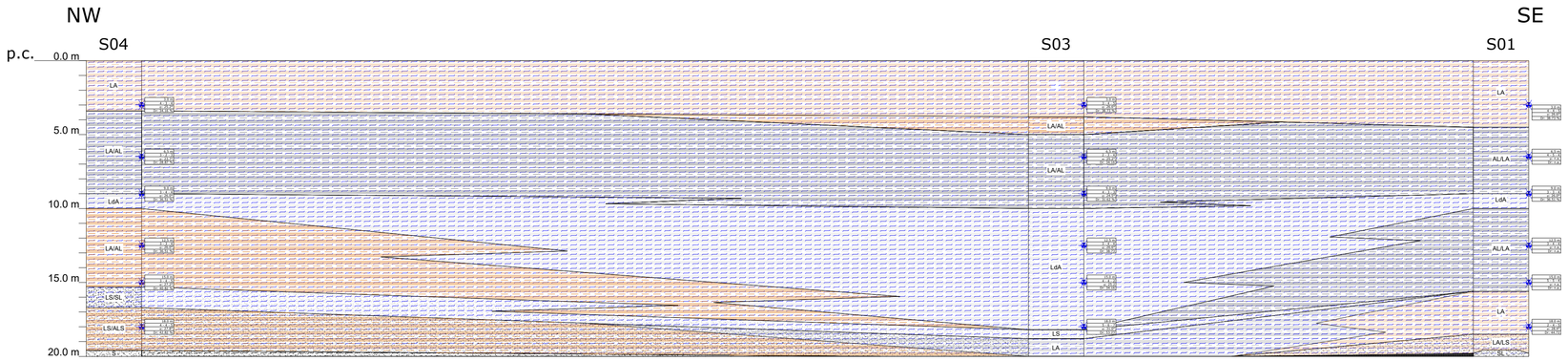
Stratigrafie geotecniche

PROGETTO

TE-DR-21-004

NOME DEL FILE	SCALA CAD	FORMATO	SCALA	FOGLIO
Stratigrafia+sezioni.dwg	1 unità =	FF	Grafica	1 / 3





LEGENDA

Ghiaia: a - con ghiaia; b - ghiaioso; c - debolmente ghiaioso

Sabbia: a - con sabbia; b - sabbioso; c - debolmente sabbioso

Limo: a - con limo; b - limoso; c - debolmente limoso

Argilla: a - con argilla; b - argilloso; c - debolmente argilloso

Ciottoli

Trovante

Prova SPT

REVISIONI	N.	DATA	DESCRIZIONE	ESAMINATO	ACCETTATO
	02	21/07/2022	Modificato a seguito variazione del tracciato MT	LO	AU
	01	06/08/2021	Modificato a seguito sorveglianza Terna	NBI	DF
	00	27/07/2021	Prima emissione	NBI	AU

NUMERO E DATA ORDINE: L.A. n 4000085030 del 07/04/2021

MOTIVO DELL'INVIO: ☒ PER ACCETTAZIONE ☐ PER INFORMAZIONE

CODIFICA ELABORATO

RUDR21003B2132236_rev02 (Tavola 2)

Terna energy Solutions — TERNA GROUP

TITOLO ELABORATO

STUDIO GEOLOGICO, GEOTECNICO E DI COMPATIBILITA' GEOMORFOLOGICA A SUPPORTO DEL PROGETTO DEFINITO

Stazione Elettrica 132kV di Poggio Renatico (FE) e Raccordi alla RTN ed Opere Connesse

Sezioni Geologico-Tecniche

TIPOLOGIA ELABORATO

Sezioni geologico-tecniche

PROGETTO

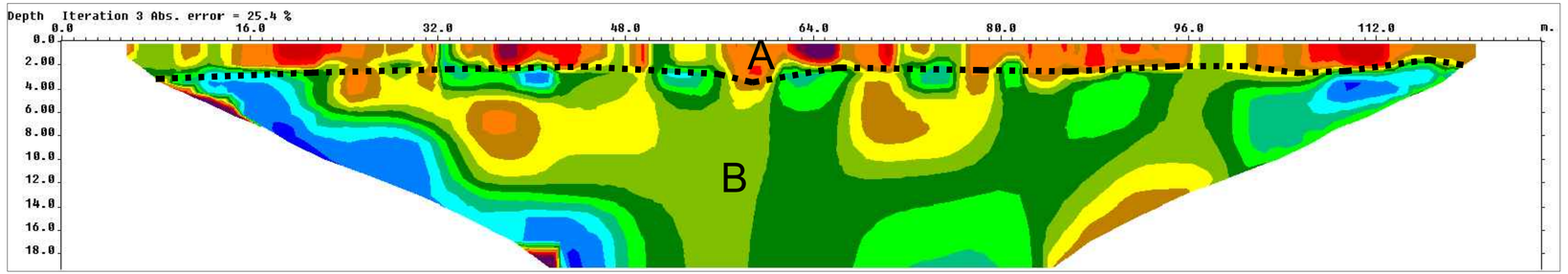
TE-DR-21-004

NOME DEL FILE	SCALA CAD	FORMATO	SCALA	FOGLIO
Stratigrafia+sezioni.dwg	1 unità =	FF	1:200	2 / 3

A

Linea EL1

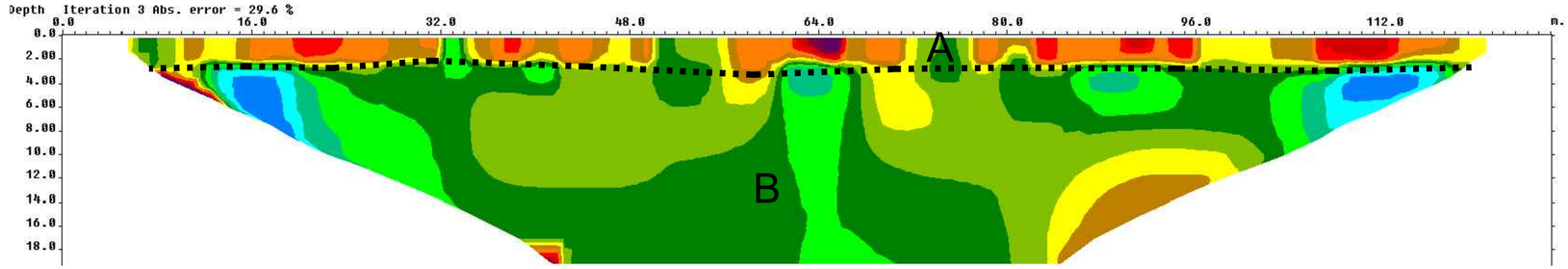
A'



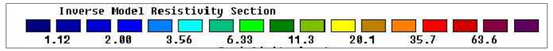
B

Linea EL2

B'



Valori resistività Ohm.m



- - - - Limite unità eletto-stratigrafica

A Terreni con valori di resistività compresi tra 25 e 60 Ohm.m: depositi prevalentemente limoso-sabbiosi con modesta frazione argillosa

B Terreni con valori di resistività compresi tra 5 e 25 Ohm.m: depositi prev. limoso-argillosi a tratti deb. sabbiosi.

REVISIONI

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NUMERO E DATA ORDINE: L.A. n 4000085030 del 07/04/2021

MOTIVO DELL'INVIO: ☒ PER ACCETTAZIONE ☐ PER INFORMAZIONE

CODIFICA ELABORATO

RUDR21003B2132236_rev02 (Tavola 3)

TITOLO ELABORATO

STUDIO GEOLOGICO, GEOTECNICO E DI COMPATIBILITA' GEOMORFOLOGICA A SUPPORTO DEL PROGETTO DEFINITO

Stazione Elettrica 132kV di Poggio Renatico (FE) e Raccordi alla RTN ed Opere Connesse

Sezioni Geologico-Tecniche

TIPOLOGIA ELABORATO

Sezioni geologico-tecniche

PROGETTO

TE-DR-21-004

NOME DEL FILE	SCALA CAD	FORMATO	SCALA	FOGLIO
Sezioni ERT.dwg	1 unità =	FF	1:250	3 / 3