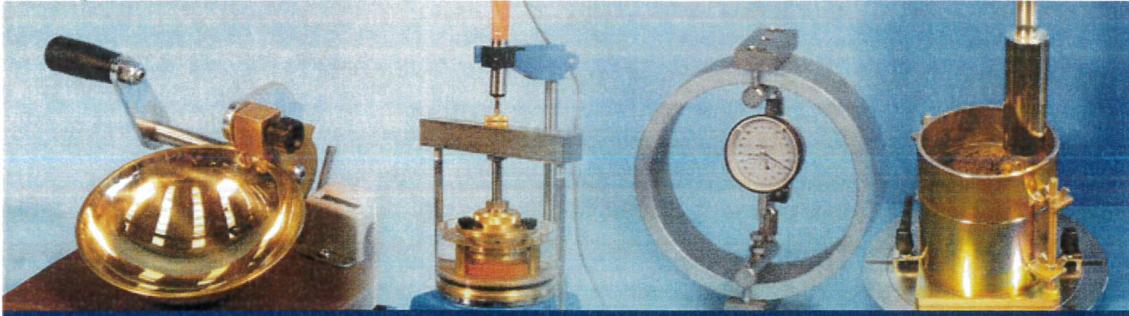


LABORATORIO GOTECNICO Dr. ANTONIO MUCCHI
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Autorizzazione del Ministero Infrastrutture e Trasporti
Per prove di laboratorio sui terreni – ai sensi dell’art. 59 del DPR 380/01
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LABORATORIO PROVE MATERIALI
 Aut. Min. ai sensi dell’art. 59 del D.P.R. n° 380/01
Terre - Inerti - Riciclati - Asfalti
www.mucchilab.it - Tel. 0532.815681 Gualdo (FE)

COMMITTENTE : Centro Energia Ferrara Srl

CANTIERE : Sito interno stabilimento Petrolchimico di Ferrara .
 Piazzale Donegani, 12

PROGETTO : Progetto di ammodernamento con miglioramento ambientale della centrale termoelettrica Centro Energia Ferrara

ALLEGATO A – RAPPORTO DI PROVA SCPTU 2020

Dott. Geol. Antonio Mucchi	Dott. Ing. Valentina Mucchi
	Anno Iscr. 2019 Settore Civile Ambientale Ferrara 07/01/2021 Prot 931-REV / 2021

Prof.	RP	RL	PN	Incl.	V.avanz	Prof.	RP	RL	PN	Incl.	V.avanz	Prof.	RP	RL	PN	Incl.	V.avanz	Prof.	RP	RL	PN	Incl.	V.avanz
metri	kg/cm ²	kg/cm ²	kg/cm ²	Gradi°	cm/sec	metri	kg/cm ²	kg/cm ²	kg/cm ²	Gradi°	cm/sec	metri	kg/cm ²	kg/cm ²	kg/cm ²	Gradi°	cm/sec	metri	kg/cm ²	kg/cm ²	kg/cm ²	Gradi°	cm/sec
0.020	0.284	0.067	3.813	2.062	2.000	1.660	7.779	0.293	-0.150	0.607	1.927	3.300	5.042	0.176	0.208	0.979	1.911	4.940	8.578	0.430	0.738	0.803	1.945
0.040	0.157	0.062	5.208	1.806	1.840	1.700	8.083	0.270	-0.114	0.623	1.716	3.320	4.858	0.179	0.277	0.996	1.685	4.960	9.317	0.309	0.714	0.734	1.719
0.060	0.812	0.076	4.743	1.578	2.012	1.800	8.489	0.261	-0.105	0.627	1.898	3.340	4.902	0.176	0.316	0.980	1.884	4.980	9.999	0.322	0.555	0.731	1.792
0.080	0.610	0.087	2.604	1.313	2.005	1.720	8.442	0.267	-0.117	0.639	1.971	3.360	4.994	0.168	0.367	0.979	1.770	5.000	10.553	0.329	0.598	0.732	2.000
0.100	0.759	0.050	6.789	1.175	1.918	1.740	8.142	0.273	-0.085	0.647	1.911	3.380	4.938	0.162	0.411	0.977	1.804	5.020	10.224	0.343	0.429	0.720	2.000
0.120	0.531	0.050	2.976	1.410	1.976	1.760	8.194	0.268	-0.059	0.652	1.754	3.400	5.209	0.158	0.410	0.978	1.764	5.040	9.971	0.345	0.449	0.719	2.000
0.140	0.806	0.021	9.951	1.246	1.803	1.780	8.245	0.275	-0.016	0.654	1.830	3.420	4.916	0.158	0.449	0.958	1.818	5.060	9.263	0.362	0.407	0.722	1.755
0.160	0.830	-0.001	11.253	1.205	1.836	1.800	8.273	0.279	-0.017	0.654	1.836	3.440	4.916	0.158	0.465	0.963	1.756	5.080	8.632	0.366	0.379	0.722	1.685
0.180	0.250	0.000	7.254	1.318	1.921	1.820	9.005	0.277	-0.027	0.653	1.823	3.460	4.684	0.156	0.477	0.963	1.823	5.100	8.151	0.365	0.351	0.710	1.878
0.200	1.031	-0.013	16.647	1.326	2.010	1.840	8.929	0.281	-0.074	0.656	1.786	3.480	4.734	0.156	0.485	0.972	1.760	5.120	7.364	0.357	0.301	0.707	1.706
0.220	1.155	-0.023	17.577	1.150	1.913	1.860	8.776	0.284	-0.059	0.648	1.782	3.500	4.794	0.163	0.541	0.974	1.832	5.140	7.284	0.343	0.235	0.689	1.825
0.240	0.952	-0.032	8.277	1.102	1.863	1.880	8.374	0.290	-0.094	0.664	1.878	3.520	4.662	0.163	0.586	0.968	1.749	5.160	7.482	0.342	0.370	0.681	1.698
0.260	1.178	-0.037	14.043	0.824	2.061	1.900	8.221	0.308	-0.117	0.660	1.720	3.540	4.452	0.161	0.600	0.963	2.000	5.180	7.404	0.342	0.455	0.685	1.818
0.280	0.902	-0.028	8.037	1.092	1.834	1.920	7.538	0.324	-0.120	0.656	1.947	3.560	4.572	0.163	0.629	0.968	1.666	5.200	7.703	0.329	0.396	0.687	1.630
0.300	1.331	-0.022	8.091	0.898	2.000	1.940	7.358	0.329	-0.157	0.685	1.945	3.580	4.464	0.160	0.630	0.961	1.878	5.220	7.924	0.317	0.509	0.671	2.000
0.320	1.682	-0.060	18.228	1.072	1.923	1.960	7.027	0.338	-0.152	0.671	1.881	3.600	4.257	0.164	0.633	0.962	1.739	5.240	9.030	0.308	0.591	0.658	1.595
0.340	2.513	-0.033	33.016	0.672	1.947	1.980	6.263	0.250	0.029	0.795	1.712	3.620	3.996	0.165	0.696	0.956	1.846	5.260	9.204	0.308	0.628	0.665	1.837
0.360	1.647	-0.072	2.418	0.483	1.923	2.000	6.440	0.256	-0.091	0.791	1.961	3.640	4.066	0.166	0.767	0.957	1.724	5.280	9.226	0.314	0.724	0.668	1.696
0.380	0.260	-0.069	9.300	0.263	2.014	2.020	5.910	0.261	-0.049	0.793	1.651	3.660	4.083	0.162	0.815	0.956	1.861	5.320	8.819	0.282	0.791	0.678	1.828
0.400	1.551	-0.088	7.719	0.585	2.022	2.040	5.809	0.273	0.004	0.797	1.945	3.680	4.380	0.159	0.858	0.963	1.812	5.340	8.690	0.263	0.823	0.669	2.266
0.420	0.721	-0.056	15.531	0.496	1.909	2.060	5.228	0.280	0.086	0.798	1.706	3.700	4.447	0.156	0.893	0.964	1.748	5.340	8.308	0.263	0.848	0.674	1.391
0.440	0.773	-0.030	14.880	0.437	1.935	2.080	5.227	0.278	0.119	0.809	1.839	3.720	4.313	0.156	0.932	0.953	1.737	5.360	8.280	0.270	0.902	0.673	1.691
0.460	0.650	0.014	16.647	0.416	1.812	2.100	5.426	0.269	0.223	0.817	1.745	3.740	4.557	0.155	0.966	0.958	1.758	5.380	8.250	0.279	0.867	0.688	1.837
0.480	0.802	0.037	16.833	0.370	2.047	2.120	5.728	0.256	0.270	0.816	1.870	3.760	4.602	0.157	1.013	0.953	1.875	5.400	8.274	0.281	0.938	0.694	1.787
0.500	0.450	0.048	16.740	0.414	2.008	2.140	5.751	0.243	0.290	0.842	1.792	3.780	4.569	0.156	1.042	0.940	1.742	5.420	7.943	0.286	0.965	0.689	1.828
0.520	0.553	0.057	22.413	0.374	1.918	2.160	5.648	0.223	0.311	0.840	1.827	3.800	4.821	0.157	1.052	0.949	1.839	5.440	7.738	0.287	0.991	0.690	1.774
0.540	0.729	-0.008	19.902	0.369	2.018	2.180	5.870	0.214	0.313	0.843	1.771	3.820	4.580	0.161	1.113	0.949	1.692	5.460	7.282	0.278	0.882	0.700	1.796
0.560	0.333	0.073	26.971	0.358	2.116	2.200	5.890	0.210	0.579	0.951	1.947	3.940	4.400	0.158	1.196	0.948	1.902	5.560	7.773	0.253	1.270	0.705	1.798
0.580	0.654	0.025	27.509	0.325	1.888	2.220	5.842	0.214	0.295	0.856	2.000	3.840	4.751	0.160	1.213	0.939	1.667	5.580	8.198	0.254	1.341	0.705	1.872
0.600	0.504	0.066	27.436	0.325	1.876	2.320	9.419	0.210	0.043	0.950	1.815	3.960	5.336	0.166	1.448	0.880	1.932	5.620	7.993	0.251	1.177	0.695	1.275
0.620	0.431	0.059	25.018	0.322	1.891	2.420	5.531	0.207	0.377	0.862	1.824	3.880	4.408	0.170	1.499	0.894	1.604	5.620	8.894	0.244	1.366	0.705	2.889
0.640	0.483	0.064	24.646	0.346	1.850	2.360	11.208	0.231	0.119	0.955	1.730	4.000	5.759	0.168	1.995	0.888	1.878	5.640	8.872	0.238	1.519	0.709	1.452
0.660	0.642	0.068	28.831	0.347	2.000	2.380	11.862	0.232	0.223	0.954	1.959	4.020	5.810	0.178	1.098	0.884	1.693	5.660	10.308	0.235	1.664	0.703	1.621
0.680	0.642	0.068	28.831	0.347	2.000	2.400	12.592	0.236	0.279	0.950	1.678	4.040	5.810	0.183	1.098	0.874	1.940	5.680	10.658	0.239	1.642	0.708	1.823
0.700	0.646	0.068	27.529	0.317	2.000	2.420	13.071	0.249	0.310	0.962	1.893	4.060	5.677	0.197	0.751	0.884	1.764	5.700	9.951	0.255	1.404	0.706	1.661
0.720	0.640	0.066	28.738	0.351	1.069	2.440	13.774	0.246	0.311	0.960	1.796	4.080	5.499	0.210	0.823	0.886	1.812	5.720	8.876	0.288	1.277	0.707	1.780
0.740	0.452	-0.049	3.069	0.114	1.641	2.460	13.644	0.241	0.313	0.964	1.797	4.100	5.444	0.210	0.845	0.880	2.000	5.740	8.031	0.301	1.242	0.704	1.767
0.760	0.897	-0.037	29.482	0.131	1.734	2.480	13.641	0.223	0.295	0.967	1.784	4.120	5.462	0.220	0.908	0.879	2.000	5.760	8.031	0.302	1.208	0.704	1.891
0.780	0.860	-0.034	27.994	0.115	1.835	2.500	13.311	0.203	0.273	0.979	1.774	4.140	5.308	0.226	0.847	0.881	1.761	5.780	7.096	0.305	1.193	0.710	1.747
0.800	1.281	-0.025	28.087	0.109	1.694	2.520	11.743	0.192	0.377	0.971	1.747	4.160	5.373	0.222	0.835	0.870	1.772	5.800	7.171	0.314	1.172	0.706	1.752
0.820	0.624	0.000	56.545	0.174	1.862	2.540	9.748	0.188	0.420	0.986	1.877	4.180	5.373	0.222	0.835	0.873	1.774	5.820	7.415	0.314	1.645	0.720	1.714
0.840	1.436	0.006	38.689	0.227	1.839	2.560	8.155	0.184	0.434	0.993	1.834	4.200	5.542	0.220	0.885	0.874	1.747	5.840	8.326	0.297	1.720	0.721	1.679
0.860	0.940	0.014	41.875	0.154	1.848	2.580	6.790	0.201	0.579	1.001	1.779	4.220	5.587	0.220	0.825	0.876	1.685	5.860	8.876	0.277	1.689	0.712	1.899
0.880	1.596	0.028	36.550	0.162	1.704	2.600	6.356	0.207	0.043	0.996	1.780	4.240	5.856	0.220	0.891	0.867	1.861	5.880	8.168	0.269	1.597	0.720	1.751
0.900	1.328	0.051	39.619	0.196	1.813	2.620	6.175	0.188	0.011	1.000	1.818	4.260	6.271	0.225	0.954	0.866	1.976	5.900	8.064	0.272	1.577	0.712	1.936
0.920	1.188	0.066	40.363	0.209	1.685	2.640	5.866	0.188	0.056	1.000	1.858	4.280	6.271	0.235	0.863	0.879	1.944	5.920	8.238	0.281	1.671	0.720	1.623
0.940	1.402	0.079	38.689	0.227	1.839	2.660	5.834	0.178	0.100	0.996	1.750	4.300	6.715	0.235	0.640	0.874	1.747	5					



Committente: Dott. Geol. Mucchi
Cantiere: Petrochimico Ferrara (FE)
Data: 24/02/2020

ID Prova: SCPTU 1
Profondità falda: a mt 1.20 da p.c.
Preforo: 1.10 mt da p.c.

Profondità massima raggiunta: 28.30 (30.30) mt
Punta sismica: Tecnopenta CPLSD
RIF. 22/20GF

Prova eseguita da:
Geo.Fe. S.n.c.
via dell'Artigianato ,2 44030 - Ro Ferrarese (FE)
tel 338364278 - info@geofe.it - www.geofe.it

Responsabile dati: Dott. Geol. Zanella Fabio
Responsabile cantiere: Sig. Mangherini Alberto

Prof.	RP	RL	PN	Incl.	Vavanz	Prof.	RP	RL	PN	Incl.	Vavanz	Prof.	RP	RL	PN	Incl.	Vavanz
metri	kg/cm²	kg/cm²	kg/cm²	Gradi °	cm/sec	metri	kg/cm²	kg/cm²	kg/cm²	Gradi °	cm/sec	metri	kg/cm²	kg/cm²	kg/cm²	Gradi °	cm/sec
8.220	7.646	0.229	2.270	0.401	1.690	9.860	8.360	0.434	1.091	0.574	1.779	11.500	12.205	0.339	3.444	0.958	1.902
8.240	7.796	0.236	2.251	0.400	1.803	9.900	8.336	0.448	1.326	0.566	1.719	11.520	12.320	0.344	3.446	0.972	1.734
8.260	7.896	0.243	2.222	0.396	1.716	9.900	8.316	0.441	1.424	0.582	1.873	11.540	12.379	0.353	3.440	0.972	1.734
8.280	7.643	0.254	2.199	0.404	1.853	9.920	9.294	0.426	1.532	0.570	1.708	11.560	12.378	0.365	3.334	0.982	1.898
8.300	7.417	0.236	2.375	0.432	1.651	9.940	9.878	0.341	1.001	0.596	1.853	11.580	12.677	0.375	3.213	0.979	2.000
8.320	7.794	0.280	2.875	0.437	1.955	9.960	9.780	0.352	0.649	0.609	1.748	11.600	12.398	0.390	3.117	0.983	1.709
8.340	8.274	0.281	3.040	0.433	1.677	9.980	9.327	0.360	0.579	0.618	1.793	11.620	12.068	0.420	3.034	0.984	2.537
8.360	8.728	0.278	3.088	0.447	1.883	10.000	8.623	0.372	0.656	0.629	1.740	11.640	11.712	0.445	2.932	0.990	2.000
8.380	8.954	0.278	3.015	0.446	1.770	10.020	8.497	0.382	0.691	0.634	1.791	11.660	11.002	0.452	2.872	0.990	1.839
8.400	9.206	0.280	3.115	0.443	1.742	10.040	8.723	0.388	0.735	0.652	1.766	11.680	10.342	0.456	2.751	0.985	1.775
8.420	9.457	0.291	3.228	0.456	1.831	10.060	8.745	0.397	0.705	0.652	1.820	11.700	9.810	0.475	2.620	0.985	1.823
8.440	9.732	0.299	3.294	0.450	1.878	10.080	8.517	0.402	0.733	0.662	1.781	11.720	9.760	0.483	2.689	0.988	1.771
8.460	9.629	0.303	3.088	0.445	1.606	10.100	8.339	0.395	0.725	0.669	1.782	11.740	9.835	0.485	2.884	0.985	1.790
8.480	9.350	0.315	2.953	0.451	1.808	10.120	8.512	0.390	0.933	0.671	1.826	11.760	9.758	0.493	3.030	1.000	1.073
8.500	8.566	0.333	2.791	0.453	1.836	10.140	7.988	0.380	0.953	0.679	1.843	11.780	9.956	0.485	3.214	1.012	1.780
8.520	7.631	0.352	2.548	0.452	1.738	10.160	9.768	0.380	1.022	0.683	1.823	11.800	10.533	0.473	3.332	1.018	1.791
8.540	6.973	0.357	2.399	0.454	1.907	10.180	10.044	0.383	1.050	0.698	1.807	11.820	10.983	0.461	3.477	1.025	1.755
8.560	6.239	0.344	2.223	0.464	1.945	10.200	10.698	0.382	1.092	0.714	1.935	11.840	11.862	0.458	3.596	1.032	1.808
8.580	5.847	0.333	2.089	0.444	1.918	10.220	10.443	0.391	1.013	0.718	1.697	11.860	12.540	0.459	3.549	1.038	1.742
8.600	5.258	0.320	2.055	0.467	1.875	10.240	10.265	0.395	0.996	0.716	1.826	11.880	12.334	0.457	3.160	1.043	1.742
8.620	4.968	0.308	2.112	0.461	1.974	10.260	9.810	0.398	0.861	0.738	1.721	11.900	12.331	0.433	3.426	1.051	1.681
8.640	4.762	0.288	2.248	0.468	2.377	10.280	9.203	0.413	0.775	0.729	1.904	11.920	10.547	0.300	3.813	1.062	1.922
8.660	4.472	0.264	2.624	0.478	1.741	10.300	8.748	0.427	0.753	0.736	1.707	11.940	11.406	0.352	3.208	1.072	1.719
8.680	4.929	0.247	2.576	0.458	1.441	10.320	8.192	0.426	0.804	0.744	1.927	11.960	10.802	0.377	2.093	1.074	1.911
8.700	5.151	0.230	2.631	0.456	1.865	10.340	8.417	0.421	0.986	0.753	1.716	11.980	10.549	0.357	2.127	1.081	1.685
8.720	5.475	0.216	2.688	0.465	2.019	10.360	8.669	0.403	1.014	0.753	1.898	12.000	9.918	0.344	2.070	1.083	1.884
8.740	5.647	0.208	2.699	0.467	1.801	10.380	8.869	0.395	0.997	0.752	1.791	12.020	9.187	0.327	2.108	1.078	1.770
8.760	5.494	0.206	2.664	0.478	1.932	10.400	8.465	0.393	0.930	0.760	1.911	12.040	8.783	0.301	2.167	1.073	1.804
8.780	5.442	0.208	2.619	0.475	1.911	10.420	7.040	0.375	0.935	0.782	1.742	12.060	8.471	0.279	2.291	1.076	1.832
8.800	5.290	0.210	2.597	0.474	1.778	10.440	7.477	0.388	0.823	0.788	1.830	12.080	8.680	0.280	2.373	1.073	1.818
8.820	5.314	0.211	2.601	0.480	2.070	10.460	7.022	0.388	0.815	0.779	1.836	12.100	8.705	0.222	2.455	1.069	1.756
8.840	5.365	0.217	2.592	0.471	1.932	10.480	7.070	0.383	0.870	0.781	1.802	12.120	8.577	0.204	2.554	1.058	1.823
8.860	5.289	0.220	2.573	0.473	1.906	10.500	7.194	0.380	0.924	0.789	1.786	12.140	8.553	0.195	2.640	1.062	1.760
8.880	5.315	0.223	2.528	0.487	1.825	10.520	7.040	0.375	0.935	0.782	1.742	12.160	8.471	0.184	2.671	1.063	1.832
8.900	5.115	0.226	2.511	0.489	1.957	10.540	7.012	0.358	0.949	0.787	1.878	12.180	8.301	0.180	2.682	1.071	1.749
8.920	5.166	0.229	2.517	0.483	1.962	10.560	7.161	0.351	0.960	0.790	1.720	12.200	8.152	0.181	2.707	1.069	2.000
8.940	5.316	0.207	2.887	0.492	2.067	10.580	6.984	0.355	1.033	0.786	1.947	12.220	8.229	0.182	2.769	1.071	1.666
8.960	5.393	0.206	2.904	0.496	1.796	10.600	7.233	0.360	1.171	0.793	1.991	12.240	8.330	0.180	2.897	1.065	1.878
8.980	5.546	0.206	2.916	0.500	1.956	10.620	7.233	0.364	1.231	0.797	1.881	12.260	8.509	0.179	2.956	1.072	1.739
8.990	5.572	0.206	2.923	0.503	1.907	10.640	7.208	0.365	1.229	0.800	1.712	12.280	8.562	0.180	2.993	1.076	1.846
9.000	5.673	0.205	2.950	0.509	1.903	10.660	7.386	0.351	1.181	0.805	1.712	12.300	8.564	0.185	3.005	1.071	1.724
9.040	5.800	0.205	2.969	0.519	1.914	10.680	7.185	0.351	1.163	0.816	1.651	12.320	10.430	0.166	3.047	1.112	1.861
9.060	5.977	0.206	2.987	0.511	1.840	10.700	7.336	0.352	1.169	0.824	1.945	12.340	10.002	0.189	3.012	1.119	1.812
9.080	6.053	0.209	3.029	0.511	1.802	10.720	7.259	0.353	1.180	0.820	1.706	12.360	9.498	0.191	2.979	1.119	1.748
9.100	6.432	0.207	3.172	0.517	1.802	10.740	7.259	0.353	1.180	0.820	1.839	12.380	9.322	0.193	2.922	1.124	1.737
9.120	7.389	0.204	3.420	0.509	1.989	10.760	7.709	0.312	1.313	0.835	1.745	12.400	9.274	0.205	3.068	1.131	1.758
9.140	8.054	0.201	3.814	0.507	1.786	10.780	7.809	0.284	1.287	0.835	1.870	12.420	9.377	0.205	3.177	1.143	1.875
9.160	10.415	0.207	4.089	0.512	2.032	10.800	7.379	0.281	1.209	0.840	1.792	12.440	9.380	0.198	3.328	1.162	1.742
9.180	11.652	0.212	2.764	0.504	1.825	10.820	6.902	0.279	1.160	0.824	1.827	12.460	9.809	0.193	3.500	1.163	1.839
9.200	11.802	0.257	1.733	0.513	1.976	10.840	6.623	0.278	1.153	0.850	1.771	12.480	10.186	0.185	3.666	1.180	1.692
9.220	11.348	0.317	1.550	0.482	1.895	10.860	6.271	0.276	1.223	0.856	2.000	12.500	10.515	0.183	3.828	1.178	1.798
9.240	9.835	0.399	1.479	0.485	1.927	10.880	6.371	0.276	1.260	0.851	1.706	12.520	10.867	0.182	3.989	1.191	1.758
9.260	8.876	0.479	1.539	0.480	1.827	10.900	6.272	0.274	1.276	0.859	1.824	12.540	11.522	0.186	4.125	1.195	1.805
9.280	7.617	0.557	1.594	0.488	1.796	10.920	5.048	0.230	1.255	0.873	1.789	12.560	11.901	0.189	4.219	1.194	1.716
9.300	7.139	0.601	1.663	0.483	1.683	10.940	6.386	0.251	1.288	0.868	1.840	12.580	11.926	0.193	4.282	1.193	1.902
9.320	7.063	0.627	1.691	0.481	1.727	10.960	6.412	0.244	1.244	0.873	1.778	12.600	12.254	0.190	4.340	1.193	1.662
9.340	6.784	0.631	1.717	0.484	2.043	10.980	6.640	0.238	1.268	0.873	1.815	12.620	12.153	0.195	4.307	1.201	1.932
9.360	6.250	0.614	1.724	0.494	1.069	11.000	6.615	0.239	1.260	0.880	1.803	12.640	11.751	0.201	4.263	1.205	1.604
9.380	6.250	0.614	1.724	0.494	1.610	11.020	6.792	0.240	1.240	0.891	1.730	12.660	11.775	0.203	4.321	1.215	1.878
9.400	6.214	0.509	1.778	0.501	2.000	11.040	7.221	0.240	1.240	0.898	1.959	12.680	12.229	0.202	4.483	1.219	1.693
9.420	6.534	0.470	1.850	0.521	2.000	11.060	7.221	0.242	1.242	0.894	1.678	12.700	12.405	0.203	4.588	1.224	1.940
9.440	6.778	0.439	1.914	0.518	2.000	11.080	7.399	0.243	1.242	0.896	1.893	12.720	12.833	0			



Geo.Fe.
INDAGINI GEOLOGICHE

Commitente: Dott. Geol. Mucchi
Cantiere: Petrolchimico Ferrara (FE)
Data: 24/02/2020

ID Prova: SCPTU 1
Profondita falda: a mt 1.20 da p.c.
Preforo: 1.10 mt da p.c.

Profondità massima raggiunta: 28.30 (30.30) mt
Punta sismica: Tecnopenta CPLSD
RIF. 22/20GF

Prova eseguita da:
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Responsabile cantiere: Sig. Mangherini Alberto

Prof. metri	RP kg/cm ²	RL kg/cm ²	PN kg/cm ²	Incl. Gradi °	Vavanz cm/sec	Prof. metri	RP kg/cm ²	RL kg/cm ²	PN kg/cm ²	Incl. Gradi °	Vavanz cm/sec	Prof. metri	RP kg/cm ²	RL kg/cm ²	PN kg/cm ²	Incl. Gradi °	Vavanz cm/sec	
16.420	78.181	0.421	0.273	1.727	1.742	18.060	70.390	0.279	0.043	1.898	1.873	19.700	208.257	0.654	2.547	1.851	1.898	1.748
16.440	80.562	0.373	0.377	1.732	1.792	18.060	86.764	0.324	0.011	1.910	1.708	19.720	210.590	0.642	2.585	1.845	2.000	1.748
16.460	85.356	0.329	0.420	1.724	1.810	18.100	104.231	0.341	0.929	1.853	1.853	19.740	211.650	0.634	2.549	1.845	2.000	1.777
16.480	91.596	0.331	0.434	1.725	1.744	18.120	116.622	0.354	1.131	1.923	1.748	19.760	211.650	0.631	2.489	1.842	1.709	1.805
16.500	95.983	0.338	0.579	1.721	1.774	18.140	127.465	0.378	1.417	1.922	1.793	19.780	208.862	0.623	2.301	1.834	25.637	1.871
16.520	99.278	0.346	0.043	1.725	1.774	18.160	131.963	0.403	1.642	1.947	1.793	19.800	204.390	0.647	2.241	1.829	2.000	1.801
16.540	101.354	0.328	0.011	1.727	1.667	18.180	133.159	0.331	1.681	1.947	1.791	19.820	200.565	0.691	2.169	1.839	1.839	1.781
16.560	99.994	0.299	0.505	1.732	1.853	18.200	138.723	0.343	2.245	1.949	1.766	19.840	196.991	0.700	2.120	1.824	1.775	1.781
16.580	97.742	0.281	0.603	1.737	1.651	18.220	145.657	0.352	2.809	1.959	1.820	19.860	195.096	0.716	2.213	1.817	1.823	1.727
16.600	93.356	0.284	0.061	1.836	1.955	18.240	152.341	0.375	3.053	1.975	1.781	19.880	195.562	0.719	2.356	1.809	1.771	1.856
16.620	92.949	0.277	0.825	1.830	1.677	18.260	155.288	0.390	2.981	1.969	1.782	19.900	196.687	0.713	2.452	1.813	1.790	1.721
16.640	89.775	0.289	0.763	1.843	1.883	18.280	153.998	0.417	2.696	1.986	1.826	19.920	196.064	0.711	2.379	1.814	1.750	1.755
16.660	88.227	0.303	0.828	1.844	1.770	18.300	151.461	0.438	2.521	1.986	1.843	19.940	196.553	0.719	2.369	1.808	1.780	1.756
16.680	89.013	0.314	1.063	1.857	1.742	18.320	147.549	0.467	2.353	1.979	1.823	19.960	194.179	0.670	1.646	1.748	1.867	1.758
16.700	93.149	0.314	1.332	1.874	1.831	18.340	142.899	0.487	2.159	1.992	1.807	19.980	196.246	0.576	1.522	1.747	1.755	1.751
16.720	96.424	0.313	1.500	1.879	1.878	18.360	140.786	0.490	2.184	1.986	1.935	20.000	196.915	0.572	1.497	1.735	1.808	1.907
16.740	99.620	0.306	1.017	1.877	1.606	18.380	142.807	0.516	2.682	1.987	1.697	20.020	196.718	0.569	1.534	1.736	1.742	1.696
16.760	100.530	0.300	1.221	1.872	1.808	18.400	147.011	0.518	3.025	1.984	1.979	20.040	197.635	0.580	1.466	1.733	2.000	1.854
16.780	100.804	0.296	1.439	1.875	1.836	18.420	150.273	0.518	3.013	1.981	1.721	20.060	197.508	0.580	1.567	1.726	1.681	1.718
16.800	100.981	0.296	1.521	1.875	1.738	18.440	152.749	0.518	2.819	1.986	1.904	20.080	196.386	0.583	1.653	1.730	1.681	1.718
16.820	100.981	0.296	1.521	1.875	1.797	18.460	154.206	0.531	2.522	1.970	1.707	20.100	196.709	0.595	1.443	1.722	1.719	1.945
16.840	100.981	0.296	1.521	1.875	1.714	18.480	153.939	0.559	2.232	1.971	1.927	20.120	199.872	0.622	1.820	1.716	1.911	1.945
16.860	114.503	0.297	1.314	1.882	1.867	18.500	152.883	0.581	1.972	1.971	1.716	20.140	201.434	0.641	1.914	1.718	1.685	1.792
16.880	121.471	0.297	1.397	1.895	1.690	18.520	152.510	0.619	1.983	1.973	1.898	20.160	202.321	0.668	1.978	1.726	1.770	1.792
16.900	127.673	0.298	1.490	1.889	1.803	18.540	152.625	0.643	1.894	1.962	1.791	20.180	202.021	0.655	1.658	1.971	1.770	1.720
16.920	131.954	0.305	1.459	1.901	1.716	18.560	153.573	0.660	2.245	1.958	1.911	20.200	200.605	0.650	2.066	1.719	1.804	2.000
16.940	131.203	0.313	1.605	1.904	1.853	18.580	154.776	0.688	2.385	1.957	1.754	20.220	195.210	0.649	1.816	1.717	1.764	2.000
16.960	129.240	0.374	2.753	1.892	1.651	18.600	155.519	0.722	2.473	1.954	1.878	20.240	186.944	0.678	1.215	1.749	1.818	1.755
16.980	134.496	0.368	2.848	1.892	1.955	18.620	154.423	0.740	2.399	1.948	1.836	20.260	177.942	0.705	1.065	1.715	1.756	1.755
17.000	138.456	0.370	2.565	1.900	1.677	18.640	154.846	0.750	2.364	1.944	1.802	20.280	165.157	0.737	1.075	1.715	1.823	1.920
17.020	142.644	0.368	2.528	1.906	1.883	18.660	153.535	0.763	2.300	1.946	1.786	20.300	154.177	0.774	0.446	1.710	1.760	1.750
17.040	145.181	0.368	2.329	1.898	1.770	18.680	151.558	0.768	2.157	1.940	1.742	20.320	148.592	0.819	1.491	1.755	1.832	1.825
17.060	149.697	0.372	2.609	1.909	1.742	18.700	147.347	0.765	1.982	1.932	1.878	20.340	186.944	0.678	1.391	1.717	1.818	1.696
17.080	154.897	0.377	2.659	1.914	1.831	18.720	142.530	0.779	1.795	1.932	1.720	20.360	139.815	0.754	1.200	1.748	1.748	1.818
17.100	161.284	0.387	2.689	1.909	1.878	18.740	134.309	0.779	1.469	1.924	1.947	20.380	107.788	0.718	1.349	1.748	1.666	1.630
17.120	163.459	0.394	2.525	1.915	1.606	18.760	127.284	0.778	1.178	1.926	1.881	20.400	142.146	0.674	1.661	1.752	1.752	2.000
17.140	164.589	0.396	2.012	1.919	1.808	18.780	118.455	0.778	0.875	1.927	1.881	20.420	150.136	0.630	1.595	1.745	1.846	1.895
17.160	168.333	0.404	2.047	1.922	1.836	18.800	111.811	0.771	0.709	1.930	1.712	20.440	165.387	0.591	1.636	1.747	1.846	1.837
17.180	171.390	0.408	2.506	1.927	1.738	18.820	105.316	0.739	0.565	1.938	1.651	20.460	180.403	0.570	1.655	1.750	1.724	1.758
17.200	172.994	0.422	2.494	1.932	1.744	18.840	101.080	0.710	0.530	1.942	1.651	20.480	195.695	0.551	1.644	1.748	1.861	1.828
17.220	174.375	0.436	2.442	1.935	1.855	18.860	97.862	0.715	0.495	1.935	1.945	20.500	204.227	0.550	1.662	1.745	1.742	1.828
17.240	174.736	0.450	2.372	1.948	1.768	18.880	95.405	0.701	0.560	1.933	1.706	20.520	208.592	0.558	1.652	1.747	1.748	1.828
17.260	170.759	0.463	2.202	1.947	1.808	18.900	93.482	0.692	0.573	1.932	1.839	20.540	208.592	0.558	1.652	1.747	1.737	1.691
17.280	162.766	0.483	1.934	1.949	1.763	18.920	92.322	0.689	0.632	1.932	1.745	20.560	209.175	0.600	1.600	1.731	1.758	1.837
17.300	153.480	0.497	1.671	1.956	1.840	18.940	93.664	0.699	0.705	1.932	1.870	20.580	206.527	0.631	1.459	1.727	1.875	1.800
17.320	143.327	0.500	1.343	1.956	1.793	19.060	93.500	0.568	1.205	1.932	1.824	20.700	180.937	0.626	1.554	1.719	1.805	1.777
17.340	132.033	0.509	1.052	1.967	1.733	18.980	92.044	0.556	1.264	1.870	1.827	20.620	197.526	0.690	1.562	1.730	1.839	1.828
17.360	124.369	0.525	0.926	1.971	1.979	19.000	89.916	0.550	1.132	1.872	1.771	20.640	193.299	0.706	1.572	1.730	1.692	1.796
17.380	117.362	0.527	0.882	1.971	1.742	19.020	87.711	0.545	1.018	1.872	2.000	20.660	188.686	0.722	1.612	1.718	1.758	1.800
17.400	111.905	0.525	0.830	1.981	1.933	19.040	86.468	0.539	0.988	1.876	1.706	20.680	185.271	0.715	1.547	1.717	1.798	1.800
17.420	106.469	0.520	0.814	1.988	1.737	19.060	86.138	0.535	1.020	1.885	1.824	20.700	180.937	0.705	1.613	1.719	1.805	1.800
17.440	103.223	0.515	0.849	1.991	1.782	19.080	86.338	0.535	1.099	1.886	1.789	20.720	176.045	0.690	1.573	1.709	1.716	1.690
17.460	101.647	0.504	1.026	1.989	1.838	19.100	87.401	0.539	1.235	1.884	1.840	20.740	170.893	0.673	1.605	1.714	1.902	1.798
17.480	101.244	0.495	1.243	1.986	1.881	19.120	90.440	0.544	1.490	1.889	1.778	20.760	167.369	0.656	1.614	1.707	1.667	1.823
17.500	102.388	0.448	1.496	1.989	1.745	19.140	96.833	0.542	1.535	1.892	1.815	20.780	162.445	0.640	1.574	1.708	1.667	1.872
17.520	103.241	0.484	1.649	1.991	1.069	19.160	114.189	0.524	1.607	1.930	1.803	20.800	158.362	0.633	1.545	1.705	1.604	1.889
17.540	108.613	0.471	1.821	2.001	1.610	19.180	130.279	0.534	1.657	1.896	1.730	20.820	153.359	0.627	1.546	1.705	1.878	1.767
17.560	112.373	0.464	2.135	1.996	2.000	1												

Committente: Dott. Geol. Mucchi
Cantiere: Petrochimico Ferrara (FE)
Data: 24/02/2020

ID Prova: SCPTU 1
Profondità falda: a mt 1.20 da p.c.
Preforo: 1.10 mt da p.c.

Profondità massima raggiunta: 28.30 (30.30) mt
Punta sismica: Tecnopenta CPLSD
RIF. 22/20GF

Prova eseguita da:
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Responsabile dati: Dott.Geol.Zanella Fabio
Responsabile cantiere: Sig. Mangherini Alberto

Prof. metri	RP kg/cm ²	RL kg/cm ²	PN kg/cm ²	Incl. Gradi °	Vavanz cm/sec	Prof. metri	RP kg/cm ²	RL kg/cm ²	PN kg/cm ²	Incl. Gradi °	Vavanz cm/sec	Prof. metri	RP kg/cm ²	RL kg/cm ²	PN kg/cm ²	Incl. Gradi °	Vavanz cm/sec	
24.620	166.776	0.627	1.468	2.320	1.810	26.260	190.281	0.541	2.138	2.465	1.833	27.900	198.302	0.590	2.069	2.827	1.836	29.540
24.640	164.096	0.620	1.670	2.332	1.744	26.280	191.990	0.541	2.100	2.478	1.775	27.920	190.997	0.589	1.919	2.817	1.738	29.560
24.660	164.305	0.615	2.018	2.329	1.774	26.300	193.167	0.539	2.149	2.489	1.844	27.940	186.796	0.585	1.860	2.827	1.797	29.580
24.680	164.955	0.614	2.262	2.328	1.774	26.320	191.932	0.610	2.158	2.640	0.015	27.960	181.474	0.574	1.807	2.818	1.714	29.600
24.700	169.554	0.598	2.126	2.339	1.667	26.340	193.052	0.588	2.055	2.652	0.652	27.980	176.002	0.566	1.702	2.809	1.867	29.620
24.720	176.447	0.576	2.333	2.333	1.853	26.360	192.240	0.578	2.128	2.658	1.785	28.000	170.196	0.557	1.669	2.823	1.690	29.640
24.740	187.419	0.562	3.137	2.338	1.651	26.380	191.528	0.566	2.062	2.667	1.837	28.020	168.684	0.549	1.815	2.825	1.803	29.660
24.760	192.457	0.561	3.152	2.345	1.955	26.400	189.444	0.541	2.093	2.675	1.772	28.040	170.243	0.545	2.198	2.828	1.716	29.680
24.780	193.069	0.592	2.948	2.342	1.677	26.420	188.245	0.533	2.088	2.682	1.806	28.060	166.921	0.485	2.083	2.809	1.853	29.700
24.800	192.732	0.596	2.812	2.344	1.883	26.440	186.256	0.528	2.120	2.694	1.760	28.080	165.987	0.506	2.106	2.823	1.651	29.720
24.820	195.333	0.623	2.957	2.357	1.770	26.460	185.948	0.524	2.160	2.696	1.844	28.100	166.571	0.517	2.153	2.825	1.955	29.740
24.840	199.465	0.622	3.075	2.357	1.742	26.480	184.735	0.504	2.083	2.715	1.772	28.120	167.771	0.516	2.125	2.835	1.677	29.760
24.860	200.422	0.631	2.968	2.354	1.831	26.500	184.795	0.490	2.038	2.727	1.806	28.140	169.174	0.512	2.121	2.840	1.883	29.780
24.880	197.191	0.650	2.702	2.363	1.878	26.520	183.837	0.472	2.051	2.737	1.760	28.160	170.678	0.505	2.111	2.835	1.770	29.800
24.900	197.919	0.660	2.555	2.370	1.606	26.540	183.809	0.468	2.110	2.731	1.837	28.180	170.432	0.508	2.178	2.833	1.742	29.820
24.920	190.324	0.663	2.510	2.374	1.808	26.560	179.198	0.455	2.078	2.757	1.844	28.200	172.214	0.520	2.174	2.838	1.831	29.840
24.940	192.805	0.644	2.953	2.383	1.836	26.580	178.036	0.451	2.092	2.763	1.844	28.220	176.559	0.513	2.220	2.837	1.878	29.860
24.960	197.773	0.634	3.145	2.382	1.738	26.600	178.091	0.449	2.094	2.773	1.772	28.240	181.948	0.513	2.249	2.825	1.606	29.880
24.980	203.569	0.625	3.199	2.385	1.797	26.620	179.264	0.448	2.112	2.774	1.806	28.260	190.533	0.512	2.294	2.835	1.808	29.900
25.000	159.604	0.744	2.823	2.327	1.714	26.640	179.853	0.443	2.037	2.779	1.760	28.280	197.294	0.513	2.249	2.840	1.836	29.920
25.020	209.899	0.554	2.079	2.347	1.867	26.660	176.150	0.453	2.107	2.788	1.837	28.300	201.313	0.518	2.299	2.835	1.738	29.940
25.040	213.262	0.547	1.973	2.366	1.690	26.680	170.371	0.470	2.020	2.792	1.911	28.320						29.960
25.060	218.591	0.562	2.388	1.803	1.878	26.700	166.921	0.485	2.083	2.783	1.782	28.340						29.980
25.080	221.539	0.563	2.116	2.405	1.716	26.720	165.987	0.506	2.106	2.790	1.779	28.360						30.000
25.100	216.761	0.578	1.788	2.409	1.853	26.740	166.571	0.517	2.153	2.797	1.752	28.380						30.020
25.120	214.923	0.640	1.706	2.416	1.651	26.760	167.771	0.516	2.125	2.796	1.828	28.400						30.040
25.140	214.690	0.680	1.332	2.415	1.955	26.780	169.174	0.512	2.121	2.811	1.715	28.420						30.060
25.160	199.167	0.777	1.089	2.409	1.677	26.800	170.678	0.505	2.111	2.816	1.775	28.440						30.080
25.180	197.019	0.811	1.373	2.417	1.883	26.820	172.214	0.520	2.174	2.809	1.760	28.460						30.100
25.200	193.963	0.840	1.477	2.424	1.770	26.840	172.214	0.520	2.174	2.809	1.760	28.480						30.120
25.220	191.668	0.827	1.573	2.433	1.742	26.860	176.559	0.513	2.220	2.823	1.644	28.500						30.140
25.240	190.922	0.870	1.785	2.432	1.831	26.880	181.948	0.513	2.249	2.825	1.951	28.520						30.160
25.260	193.324	0.865	2.015	2.433	1.878	26.900	190.533	0.512	2.294	2.835	1.664	28.540						30.180
25.280	193.769	0.860	2.203	2.439	1.606	26.920	197.294	0.518	2.249	2.840	1.783	28.560						30.200
25.300	193.219	0.841	2.446	2.446	1.808	26.940	201.313	0.518	2.299	2.835	1.691	28.580						30.220
25.320	191.574	0.831	2.391	2.449	1.836	26.960	204.310	0.528	2.287	2.833	1.812	28.600						30.240
25.340	188.841	0.830	2.328	2.452	1.738	26.980	207.260	0.538	2.385	2.838	1.731	28.620						30.260
25.360	188.492	0.838	2.492	2.470	1.872	27.000	206.221	0.550	2.219	2.837	1.839	28.640						30.280
25.380	190.121	0.847	2.895	2.461	1.682	27.020	152.428	0.534	3.142	2.772	1.772	28.660						30.300
25.400	191.477	0.857	3.169	2.470	2.889	27.040	198.029	0.559	2.162	2.788	1.806	28.680						
25.420	196.890	0.875	3.421	2.469	1.237	27.060	194.000	0.546	1.949	2.780	1.760	28.700						
25.440	208.708	0.890	3.622	2.472	1.621	27.080	187.633	0.542	1.633	2.781	1.745	28.720						
25.460	223.687	0.892	3.439	2.474	1.823	27.100	182.405	0.534	1.531	2.785	1.789	28.740						
25.480	237.562	0.889	3.339	2.473	1.661	27.120	176.491	0.520	1.507	2.790	1.936	28.760						
25.500	244.764	0.885	3.200	2.474	1.780	27.140	172.477	0.501	1.607	2.793	1.356	28.780						
25.520	249.659	0.871	3.198	2.479	1.767	27.160	170.869	0.479	1.860	2.798	1.768	28.800						
25.540	249.438	0.875	2.855	2.476	1.891	27.180	174.641	0.461	2.228	2.806	1.812	28.820						
25.560	242.052	0.901	2.484	2.471	1.747	27.200	180.796	0.443	2.181	2.810	1.723	28.840						
25.580	230.950	0.941	1.926	2.462	1.752	27.220	186.648	0.432	2.220	2.812	1.840	28.860						
25.600	220.342	0.972	1.481	2.461	1.761	27.240	190.085	0.430	2.216	2.811	1.714	28.880						
25.620	205.888	0.987	1.018	2.455	1.679	27.260	191.060	0.433	2.247	2.815	1.820	28.900						
25.640	189.106	1.026	0.585	2.448	1.899	27.280	193.684	0.430	2.168	2.824	1.676	28.920						
25.660	168.449	1.082	0.260	2.447	1.751	27.300	196.362	0.421	2.348	2.827	1.891	28.940						
25.680	153.910	1.077	0.203	2.440	1.936	27.320	207.389	0.421	2.323	2.823	2.143	28.960						
25.700	143.403	1.058	0.310	2.443	1.623	27.340	201.362	0.429	2.360	2.833	1.356	28.980						
25.720	138.232	1.028	0.443	2.441	1.945	27.360	204.288	0.424	2.239	2.840	1.933	29.000						
25.740	134.455	0.974	0.577	2.451	1.672	27.380	208.187	0.414	2.368	2.840	1.668	29.020						
25.760	132.383	0.970	0.671	2.448	1.914	27.400	213.877	0.408	2.069	2.840	1.679	29.040						
25.780	129.830	0.856	0.742	2.449	1.683	27.420	217.730	0.405	2.462	2.837	1.832	29.060						
25.800	126.466	0.809	0.781	2.444	1.821	27.440	218.330	0.390	2.438	2.837	1.789	29.080						
25.820	123.333	0.765	0.770	2.445	1.772	27.460	219.105	0.381	2.630	2.847	1.815	29.100						
25.840	120.176	0.725	1.017	2.442	1.747	27.480	220.114	0.370	2.767	2.847	1.762	29.120						
25.860	118.266	0.711	1.142	2.441	1.201	27.500	214.955	0.375	2.486	2.840	1.762	29.140						
25.880	117.420	0.694	1.264	2.447	1.570	27.520	205.217	0.389	1.974	2.850	1.812	29.160						
25.900	118.812	0.665	1.477	2.448	1.775	27.540	193.92											

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