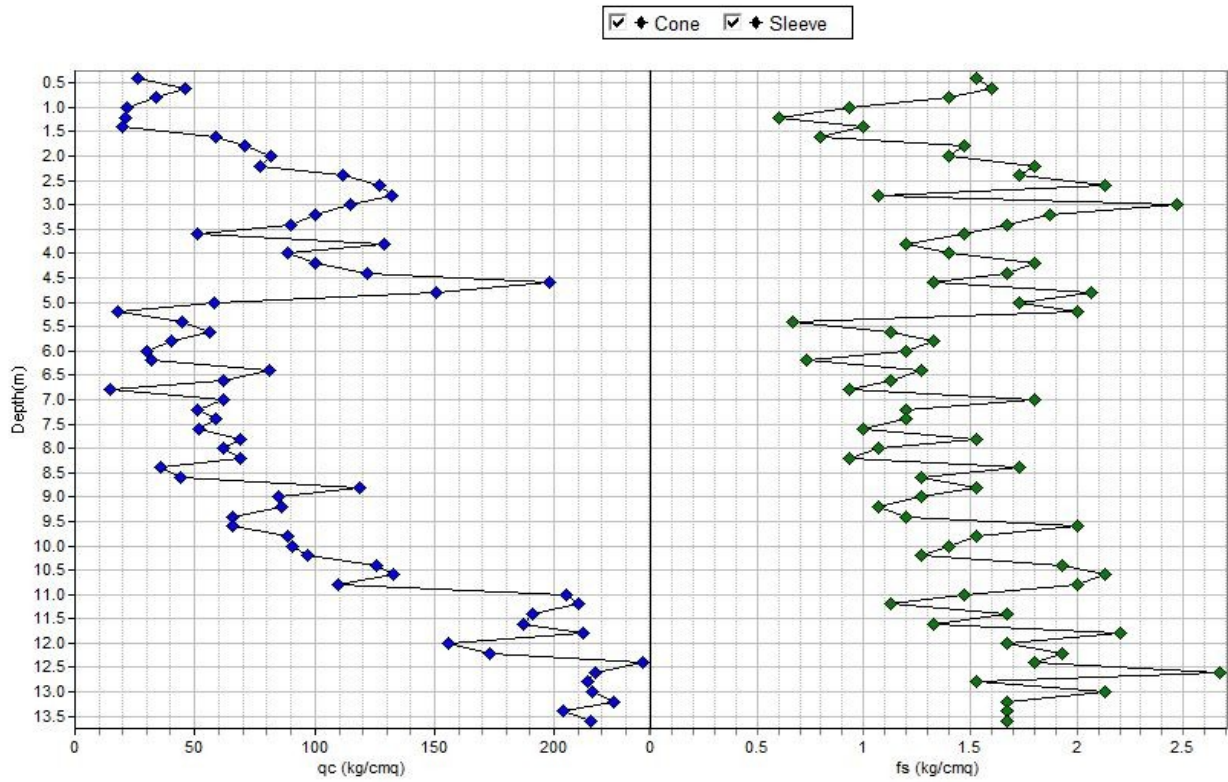


CPT ver.4: processing of cone penetrometric test (Dutch Cone)

CPT ver.4: elaborazione di prove penetrometriche a punta meccanica

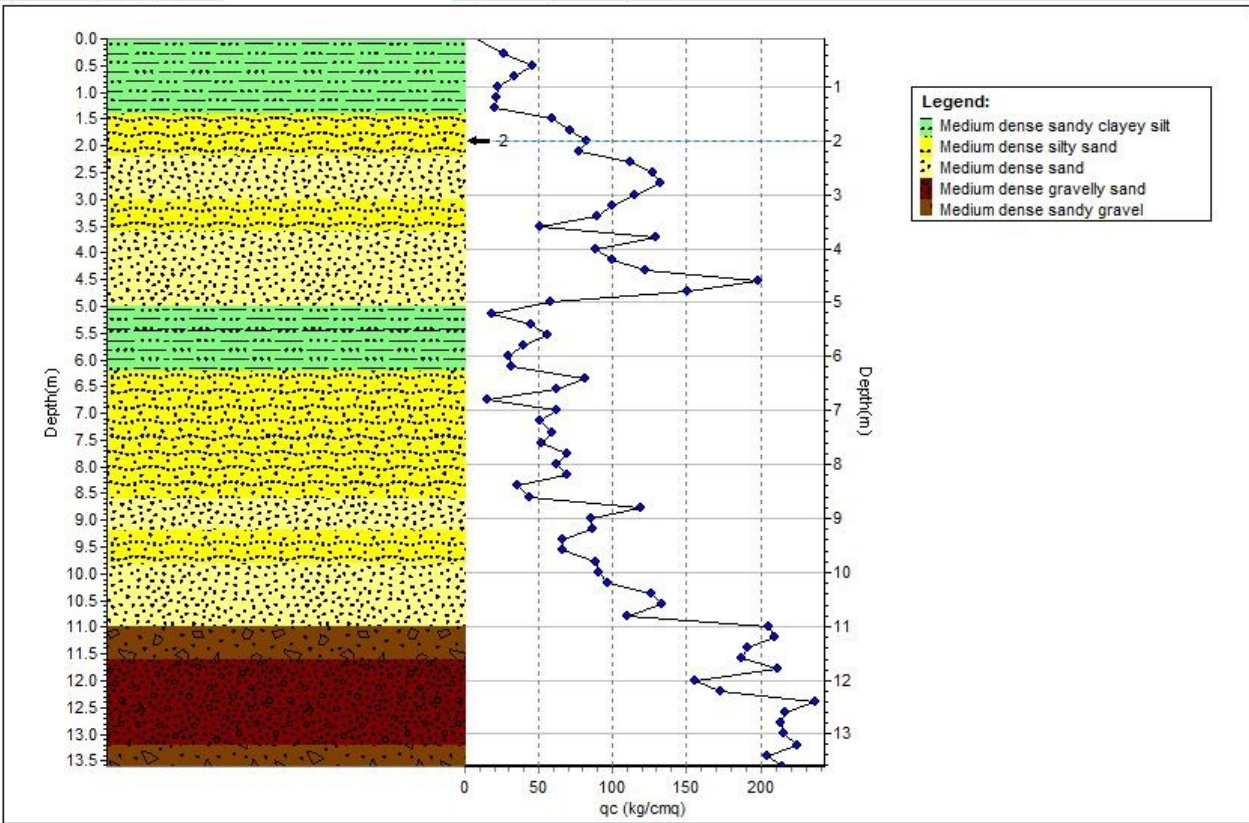


Stratigraphy - Stratigrafia

Calculation methods - Metodi di calcolo

BEGEMANN (1965);
 SCHMERTMANN (1978);
 SEARLE (1979).

Stratigraphy graphic Stratigraphic column Lithological diagrams

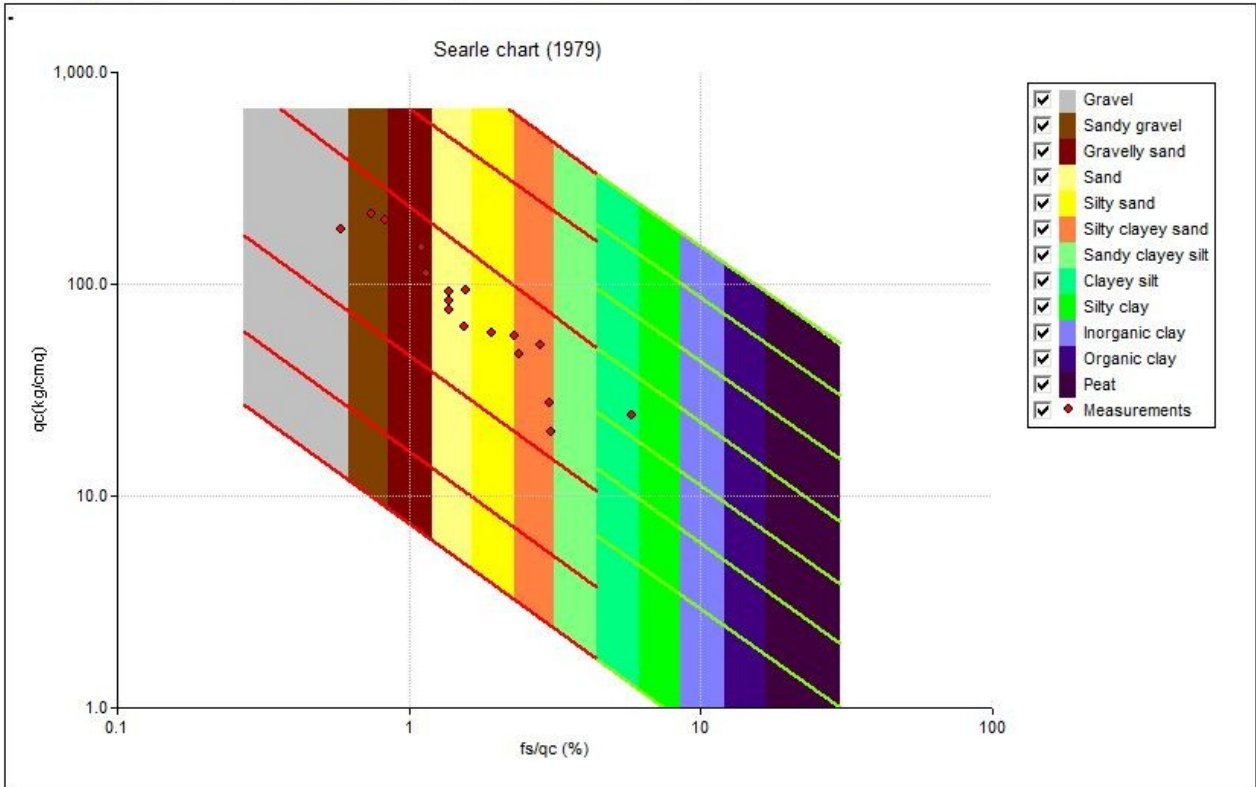


Stratigraphy graphic Stratigraphic column Lithological diagrams

Begemann

Schmertmann

Searle



Geotechnical parameters – Parametri geotecnici

Calculation methods – Metodi di calcolo

Angle of shearing resistance-Angolo di resistenza al taglio

Durgunouglu-Mitchell

Meyerhof

Caquot

Koppejan

De Beer

Searle

Kulhawy & Mayne

Marchetti

Schmertmann

Bolton

Relative density-Densità relativa

Harman

Schmertmann

Meyerhof

Jamiolkowski

Kulhawy & Mayne

Young modulus-Modulo di Young

Schmertmann

Murray

Edometric modulus (granular layers)-Modulo edometrico(terreni granulari)

Robertson and Campanella

Edometric modulus (cohesive layers)-Modulo edometrico(terreni coesivi)

Mitchell e Gardner

Shear modulus for low strain-Modulo di taglio per basse deformazioni

Imai and Tomachi

Shear wave velocity-Velocità delle onde di taglio

Barrow & Stokoe

Mayne and Rix

Coefficient of permeability-Coefficiente di permeabilità

Piacentini and Righi

Unit weight-Peso di volume

Mayne and Peuchen

Undrained cohesion-Coesione non drenata

Lunne and Kelven

Salgado

Mesre et al.

Searle

Drained cohesion-Coesione drenata

Mesreet al.

Overconsolidation ratio-Rapporto di sovraconsolidazione

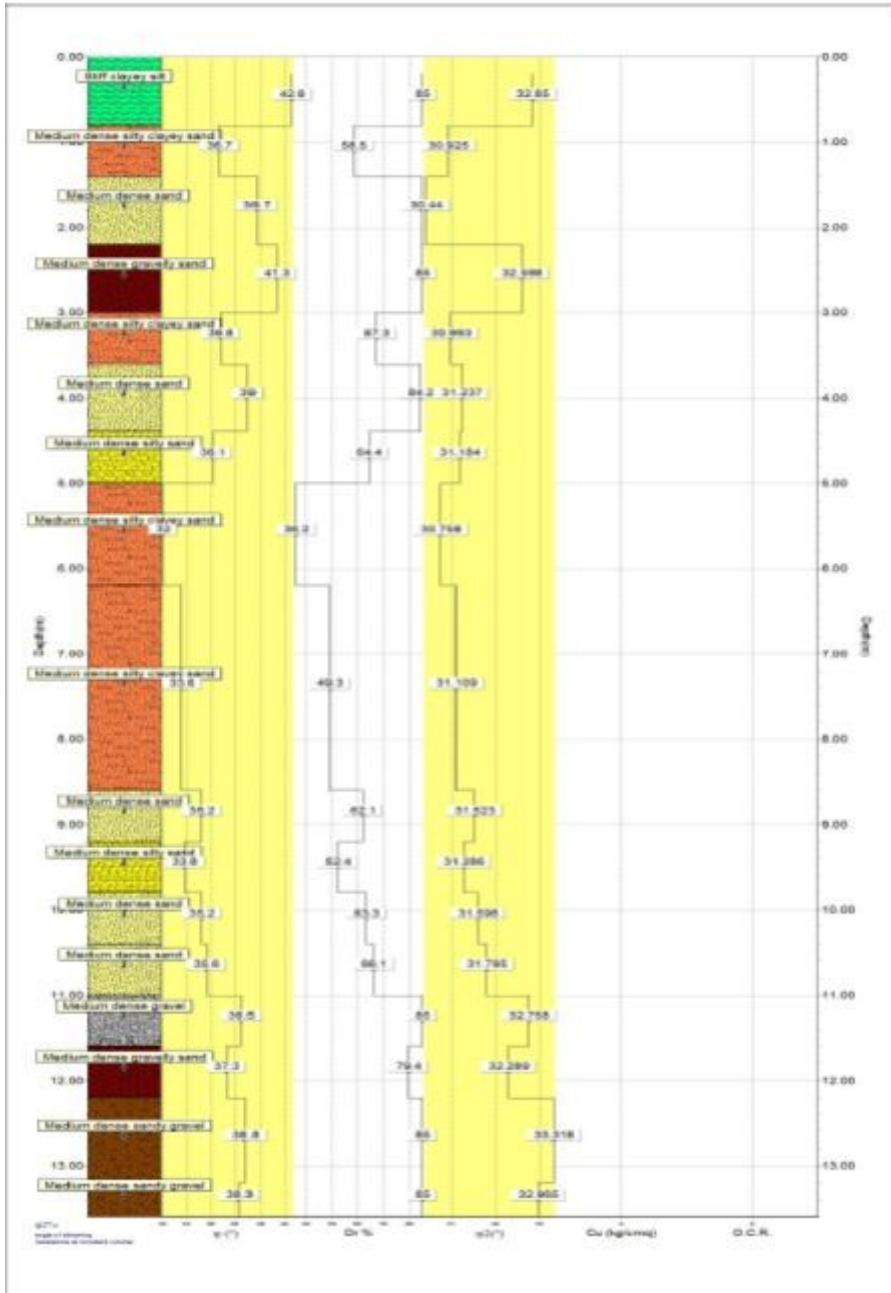
Ladd e Foot

Kulhawy and Mayne

Mayne

Compression index-Indice di compressione

Schmertmann



ProgramGeo: applied geology software

Soil profile		U.L.S. parameters	S.L.S. parameters	Summary	Methods	
N.	Depth(m)	qc (kg/cmq)	Peak Phi(°)	Phi c.v.(°)	U.W.(kg/mc)	Dr %
1	0.8	24.17	42.6	32.8	1985	85
2	1.4	19.89	36.7	30.9	1856	58.5
3	2.2	63.1	39.7	30.4	1932	84.5
4	3.0	112.69	41.3	32.6	1974	85
5	3.6	51.61	36.8	31.0	1990	67.3
6	4.4	92.76	39.0	31.2	1971	84.2
7	5.0	56.64	36.1	31.2	1975	64.4
8	6.2	27.29	32.0	30.8	1906	36.2
9	8.6	46.59	33.6	31.1	1951	49.3
10	9.2	75.21	35.2	31.5	1940	62.1
11	9.8	58.94	33.8	31.3	1954	52.4
12	10.4	83.91	35.2	31.6	1957	63.3
13	11.0	94.36	35.6	31.8	1993	66.1
14	11.6	182.37	38.5	32.8	1946	85
15	12.2	148.49	37.3	32.3	2008	79.4
16	13.2	214.17	38.8	33.3	2003	85
17	13.6	201.66	38.3	33.0	2010	85

Bearing capacity of shallow foundations – Capacità portante di fondazioni superficiali

Calculation methods – Metodi di calcolo

Meyerhof

Schmertmann

Terzaghi

Settlement of shallow foundations – Cedimento di fondazioni superficiali

Calculation methods – Metodi di calcolo

Terzaghi

Schmertmann

Ultimate capacity of piles – portata ultima dei pali

Calculation methods – Metodi di calcolo

Meyerhof

Graphic bearing capacity Soil profile-bearing capacity

