




The geological cross-section illustrates the subsurface geology of the study area. The stratigraphic units are color-coded: grey for Quaternary (Q), blue for Pliocene (P), brown for Pliocene (P), yellow for Pliocene (P), and green for Pliocene (P). The units are labeled as follows: Q (Quaternary), P (Pliocene), P (Pliocene), P (Pliocene), and P (Pliocene). The borehole locations are marked with red vertical lines and labeled: S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, S81, S82, S83, S84, S85, S86, S87, S88, S89, S90, S91, S92, S93, S94, S95, S96, S97, S98, S99, S100. The cross-section also shows the topography of the area, with the highest point at approximately 150 m a.s.l. and the lowest point at approximately 100 m a.s.l. The boreholes are numbered 1 through 100, corresponding to the S15 through S100 labels.








The figure is a geological cross-section of the study area, oriented North-South. The vertical axis on the left is labeled 'm s.l.m.' (meters above sea level) with a scale from 100 to 150. The horizontal axis at the top is labeled 'N' (North) on the left and 'S' (South) on the right. The cross-section shows several stratigraphic units: a top layer of 'Silt' (light blue), followed by 'Silt' (light blue) and 'Silt' (light blue) layers, and a base layer of 'Silt' (light blue). The main body of the section is composed of 'Silt' (light blue) and 'Silt' (light blue) layers, with a prominent 'Silt' (light blue) layer in the center. The cross-section is divided into four sections by vertical lines, labeled 'Sect. F-F'', 'Sect. G-G'', 'Sect. H-H'', and 'Sect. I-I'' from left to right. Each section has a corresponding stratigraphic column on the right side, showing the sequence of units and their thicknesses. The units are color-coded: light blue for 'Silt', yellow for 'Silt', and brown for 'Silt'. The cross-section shows a general trend of increasing elevation from North to South, with a prominent 'Silt' (light blue) layer in the center.

The geological cross-section illustrates the subsurface geology of the study area. The stratigraphic units, from top to bottom, are: AEs8, AEs7a, AEs7, AEs3, AEs2, AE1, and Qm. The cross-section shows a central depression or basin. Borehole locations are marked with vertical red lines and labels: Sg2_G-G', Sg2_H-H', Sg2_I-I', Sg2_L-L', Sg2_M-M', and Sg2_N-N'. A scale bar at the bottom left indicates a horizontal distance of 200 m (X:Y = 1:2). A vertical scale bar on the right indicates elevation in meters s.l.m. (0 to 150 m).

Caratteristiche idrogeologiche

- | | |
|---|--|
|  | Depositi prevalentemente ghiaioso-sabbiosi - comportamento da acquifero (coeff. di permeabilità $1e-04 < k < 1e-03$ m/s) |
|  | Depositi ghiaioso-sabbiosi in abbondante matrice limoso-argillosa - comportamento da acquifero a aquitard (coeff. di permeabilità $1e-06 < k < 1e-04$ m/s) |
|  | Depositi prevalentemente limoso-argillosi - comportamento da aquitard a aquiclude (coeff. di permeabilità $1e-08 < k < 1e-06$ m/s) |

Caratteristiche stratigrafiche

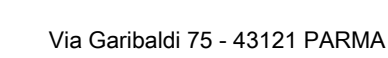
- | | |
|---|---|
|  | Unità di Modena (AES8a) del Subsistema di Ravenna (AES8) |
|  | Fino a profondità di circa 70-80 m comprende le unità del Sistema Emiliano-Romagnolo Superiore AES (Subsistema di Ravenna AES8, Villa Verucchio AES9) e del Sistema Adriatico (AES2). Tra 70-80 e 100 m il Sistema Emiliano-Romagnolo Inferiore AEI e oltre i 100 m il supersistema Quaternario Marino Qm |
|  | Superficie piezometrica (26 luglio 2016) |
|  | Soggiaçenza (m da t.l.) e quota piezometrica m s.l.m. (26 luglio 2016) |
|  | Sondaggio a cartaggio continuo |
|  | Coefficiente di permeabilità (m/s) da prova Lefranc |
|  | Coefficiente di permeabilità (m/s) da prova di pompaggio |

Litologie

- | | | | |
|---|---------|---|--------|
| G | Ghiaia | S | Sabbia |
| A | Argilla | L | Limo |

La lettera maiuscola indica la componente principale
Le lettere minuscole indicano le componenti secondarie

IL RESPONSABILE DELL'ATTIVITA' SPECIALISTICA
 Dott. Geol. Maurizio Nespoli
 (documento firmato digitalmente)



**CASSA DI ESPANSIONE DEL TORRENTE BAGANZA
NEI COMUNI DI FELINO, SALA BAGANZA,
COLLECCHIO E PARMA (PR-E-1047)**

[illegible]