geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

# Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-46
# ~~Borehole~~ ~~Pit~~ Profile

REZULTATELE ANALIZELOR DE LABORATOR
LABORATORY TEST RESULTS

LUCRAREA / DESIGN: Studiu geotehnic pentru revizuirea Studiului de fezabilitate Autostraca Sibiu-Pitesti - Sectiunea 4 (Valeni-Curtea de Arges)

AMPLASAMENT / LOCATION: Autostrada Sibiu-Pitesti
X : 464764.11 Y: 412504.79

DATA / DATE: 20.08.2016

| Cota fata de: 0.00 Foraj | Adancimea apei subterane | Grosimea stratului | Formatiunea geologica | Stratificatia | DENUMIREA STRATULUI (conform Stas 1243-88 si SR EN ISO 14688/2-2005) | Numarul probelor | Adancimea | Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005: Argila / Namol / Nisip fin / Nisip mediu / Nisip grosier / Pietris mic / Pietris mediu / Pietris mare / Bolovanis | Coeficientul de neuniformitate | Limita de curgere | Limita de plasticitate | Indicele de plasticitate | Indicele de consistenta / Umiditatea | Densitatea scheletului mineral | Greutatea volumica | Greutatea volumica in stare uscata | Porozitatea | Gradul de umiditate / Gradul de saturatie | Contractilitatea: Umflarea libera; Sucsiunea 15 bari; Contractia volumica; Limita de contractie (Tulb. / Netulb.); Presiunea de umflare | Compresibilitatea: Modulul de deformatie edometrica; Tasarea specifica la 200 kPa; Coef. compresibilitate volumica; Coeficientul de compresibilitate; Sensibilitatea la umezire; Tasare specifica; Modulul de deformatie edometrica | Rezistenta la forfecare: Efort σ/τ: 1 / 2 / 3; Unghiul de frecare int.; Coeziunea | Felul determinarii | Rezistenta la compresibilitate cu deformatie laterala libera | Coeficient de permeabilitate | Continutul in CaCO3 | Penetrarea dinamica standard |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | m | | | | | m | <0.002 / 0.063 / 0.2 / 0.63 / 2 / 6.3 / 20 / 63 / 200 | Un. | $W_L$ | $W_p$ | $I_P$ | w % | $I_c$ | $\rho_s$ kN/m³ $\gamma$ | kN/m³ $\gamma_d$ | n % | e | Sr | $U_L$ | $w_{15}$ | $C_v$ | $w_s$ | $P_L$ kPa | $M_{200-300}$ kPa | $\varepsilon_{200}$ % | $m_v$ $A_v$ kPa | $a_{v\ 200-300}$ 1/ kPa | $Im_{100}$ % | σ kPa | ε % | M kPa | 1 | 2 | 3 | Φ ° | c kPa | | $p_{s_L}$ kPa | k m/s | CaCO3 % | $N_{30\,cm}$ |
| Level vs: 0.00 Bore-hole (pit) | Stratum thickness | Underground water depth | Stratification | Geological formation | STRATUM DESCRIPTION (according to Stas 1243-88 and SR EN ISO 14688/2-2005) | Number and type of samples | Depth | Particle size distribution SR EN ISO 14688/2-2005: Clay / Silt / Fine sand / Medium sand / Coarse sand / Small gravel / Medium gravel / Coarse gravel / Cobbles | Non-uniformity coefficient | Attarberg's limits: Liquid limit | Plastic limit | Plasticity index | Water content | Consistency index | Skeletal mineral density | Unit weight | Unit dry weight | Porosity | Void ratio | Degree of saturation | Shrinkage-swelling: Unconfined swelling / Suction 15 bars / Volume shrinkage (Dist. / Undist.) / Shrinkage limit / Swelling pressure | Compressibility: Oedometer deformation modulus / Specific settlement at 200 kPa / Coefficient of volume change / Coefficient of compressibility / Susceptibility to wetting / Stress / Specific settlement / Oedometer deformation modulus | Shear strength: Effective stress σ/τ: 1 / 2 / 3; Angle of int. friction; Cohesion | Type of test | Unconfined compressive strength | Permeability coefficient | CaCO3 content | Standard penetration test |
| | | | | | | Jar / Tube / Core | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.10 | 0.10 | | | | Pamant vegetal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Pietris cu nisip cafeniu - galbui si rar bolobanis. | 1 | 1.5-2.0 | 14 7 15 12 20 28 4 | >15 | | | | 7.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.55 | 2.45 | 2.20 | | | Argila prafoasa nisipoasa, cenusie, tare. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 3.45 | | | | | 2 | 5.8-6.0 | 14 27 22 25 8 3 1 | | 29.7 | 13.1 | 16.5 | 13.8 12.3 | >1 | | 22.5 | 19.7 | 27.46 | 0.38 | 0.99 | | | | | | | | 14285.7 | 3.80 | | 0.00010 | | | | | | | | | | |

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