geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

# Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-43
# ~~Borehole~~ ~~Pit~~ Profile

REZULTATELE ANALIZELOR DE LABORATOR
LABORATORY TEST RESULTS

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

**AMPLASAMENT LOCATION:** Autostrada Sibiu-Pitesti 50
X : 464834.39 Y: 413102.11

**DATA DATE:** 19.08.2016

Borcan / Stut / Carota

| Cota fata de: 0.00 Foraj | Grosimea stratului | Adancimea apei subterane | Stratificatia | Formatiunea geologica | DENUMIREA STRATULUI (conform Stas 1243-88 si SR EN ISO 14688/2-2005) | Numarul probelor | Adancimea | Compozitia granulometrica (d. in mm) SR EN ISO 14688/2-2005: Argila | Praf | Nisip fin | Nisip mediu | Nisip mare | Pietris mic | Pietris mediu | Pietris mare | Bolovanis | Coeficientul de neuniformitate | Limitele Atterberg: Limita de curgere | Limita de plasticitate | Indicele de plasticitate | Umiditatea | Indicele de consistenta | Densitatea scheletului mineral | Greutatea volumica | Greutatea volumica in stare uscata | Porozitatea | Indicele porilor | Gradul de umiditate | Contractilitatea: Umflarea libera | Sticlozitatea 15 bari | Tulb. / Netulb. | Controlul volumica | Limita de contractie | Presiunea de umflare | Compresibilitatea: Modulul de deformatie edometrica | Tasare specifica la 200 kPa | Coef. compresibilitate volumica | Coeficientul de compresibilitate | Sensibilitatea la umezire | Rezisterta la forfecare: Efort | Tasare specifica | Modulul de deformatie edometrica | Efort σ/τ: 1 | 2 | 3 | Unghiul de frecare int. | Coeziunea | Felul determinarii | Rezistenta la compresiune 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 | $U=\frac{d_{60}}{d_{10}}$ | $W_L$ | $W_P$ | $I_P$ | w % | $I_C$ | $\rho_s$ kN/m³ | $\gamma$ kN/m³ | $\gamma_d$ kN/m³ | n % | e | Sr | $U_L$ | $w_{15}$ | $C_v$ | $w_s$ | Pu kPa | $M_{200-300}$ kPa | $\varepsilon_{200}$ % | $m_v$ $X_1$ kPa | $a_{v\ 200-300}$ 1/ kPa | $im_{100}$ % | σ kPa | ε % | M kPa | 1 | 2 | 3 | Φ ° | c kPa | | $p_c$ kPa | $k_{10}$ 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 | Atterberg'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 | Unconfined swelling | Suction 15 bars | Dist. / Undist. | Volume shrinkage | Shrinkage limit | Swelling pressure | Compressibility: Oedometer deformation modulus | Specific settlement at 200 kPa | Coefficient of volume change | Coefficient of compressibility | Susceptibility to wetting | Shear strength: Stress | Specific settlement | Oedometer deformation modulus | 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 | | | | | | | | Shrinkage-swelling | | | | | | | | | | | | | | | | | | | | | | | | | | | Compressibility | | | | | | | | | | | | | | | | | | | | | |
| 0.15 | 0.15 | | | Pamant vegetal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.50 | | | | Pietris cu nisip galbui si rar bolobanis | | 1 | 1.0-1.4 | 8 | 8 | 12 | 16 | 17 | 30 | 9 | >15 | | | | 2.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.50 | 4.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 1.50 | | | Nisip argilos, galbui - cenusiu | | 2 | 5.6-6.0 | 7 | 16 | 27 | 47 | 3 | | | >15 | | | | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | 17.7 | | | 21.7 | 18.4 | 30.41 | 0.44 | 1.00 | | | | | | | 18181.8 | 2.35 | | 0.00008 | | | | | | | | | | | | | | | | |

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