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STUDII GEOTEHNICE ȘI GEOFIZICE

# Profilul ~~Santului~~ Forajului Nr. S4-FD-1006
# 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<br>X : 463808.21 Y: 415605.08 |
| DATA / DATE | 09.09.2016 |

Cota fata de: 0.00 Foraj / Level vs: 0.00 Bore-hole (pit)

Numarul probelor / Number and type of samples: ☐ Borcan / Jar; ☒ Stut / Tube; ■ Carota / Core

| Adancimea (m) / Borehole | Grosimea stratului / Stratum thickness (m) | Adancimea apei subterane / Underground water depth (m) | Stratificatie / Stratification | Formatiunea geologica / Geological formation | Denumirea stratului (conform Stas 1243-88 si SR EN ISO 14688/2-2005) / Stratum description (according to Stas 1243-88 and SR EN ISO 14688/2-2005) |
|---|---|---|---|---|---|
| 0.10 | 0.10 | | | | Pamant vegetal. |
| 0.70 | 0.60 | | | | Nisip cafeniu, cu rar pietris. |
| 1.70 | 1.00 | 1.40 | | | Pietris cu nisip cafeniu si rar bolovanis. |
| 2.60 | 0.90 | | | | Nisip argilos cafeniu - cenusiu cu pietris. |
| 6.00 | 3.40 | | | | Argila prafoasa cafenie, plastic vartoasa - tare, cu intercalatii de nisip cenusiu. |

| Numarul probelor / Number and type of samples | Adancimea / Depth (m) | Argila / Clay <0.002 | Praf / Silt 0.063 | Nisip fin / Fine sand 0.2 | Nisip mediu / Medium sand 0.63 | Nisip mare / Coarse sand 2 | Pietris mic / Small gravel 6.3 | Pietris mediu / Medium gravel 20 | Pietris mare / Coarse gravel 63 | Bolovanis / Cobbles 200 | Coeficientul de neuniformitate / Non-uniformity coefficient Un=d60/d10 | Limita de curgere / Liquid limit $W_L$ | Limita de plasticitate / Plastic limit $W_P$ | Indicele de plasticitate / Plasticity index $I_P$ | Umiditatea / Water content w % | Indicele de consistenta / Consistency index $I_C$ | Densitatea scheletului mineral / Skeletal mineral density $\rho_s$ | Greutatea volumica / Unit weight γ kN/m³ | Greutatea volumica in stare uscata / Unit dry weight $\gamma_d$ kN/m³ | Porozitatea / Porosity n % | Indicele porilor / Void ratio e | Gradul de umiditate / Degree of saturation Sr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.3-1.5 | | 2 | 2 | 10 | 19 | 25 | 34 | 8 | | 14.7 | | | | 5.65 | | | | | | | |
| 2 | 3.1-3.35 | 25 | 61 | 12 | 1 | 1 | | | | | | 40.2 | 13.7 | 26.4 | 17.0 | 0.88 | | | | | | |
| 3 | 5.2-5.4 | 34 | 64 | 8 | 2 | | | | | | | 60.1 | 19.0 | 41.2 | 17.0 | >1 | | | | | | |
| | | | | | | | | | | | | | | | 17.9<br>17.1 | | | 21.1<br>21.1 | 17.9<br>18.1 | 34.09<br>33.63 | 0.52<br>0.51 | 0.94<br>0.92 |

| Numarul probelor / Number of samples | Contractilitatea / Shrinkage-swelling: Umflarea libera / Unconfined swelling $U_L$ | Suctiunea 15 bari / Suction 15 bars $w_{15}$ | Contractia volumica / Volume shrinkage $C_v$ (Tulb./Netulb. – Dist./Undist.) | Limita de contractie / Shrinkage limit $w_s$ | Presiunea de umflare / Swelling pressure Pu kPa | Compresibilitatea / Compressibility: Modulul de deformatie edometrica / Oedometer deformation modulus $M_{200-300}$ kPa | Tasare specifica la 200 kPa / Specific settlement at 200 kPa $\varepsilon_{200}$ % | Coef. compresibilitate volumica / Coefficient of volume change $m_v$ | Coeficientul de compresibilitate / Coefficient of compressibility $a_{v\,200-300}$ 1/kPa | Sensibilitatea la umezire / Susceptibility to wetting $im_{300}$ % | Efort / Stress σ kPa | Tasare specifica / Specific settlement ε % | Modulul de deformatie edometrica / Oedometer deformation modulus M kPa | Rezistenta la forfecare / Shear strength: Efort / Effective stress σ/τ 1 | 2 | 3 | Unghiul de frecare int. / Angle of int. friction Φ ° | Coeziunea / Cohesion c kPa | Felul determinarii / Type of test | Rezistenta la compresiune cu deformatie laterala libera / Unconfined compressive strength $p_c$ kPa | Coeficient de permeabilitate / Permeability coefficient k | Continutul in CaCO3 / CaCO3 content % | Penetrarea dinamica standard / Standard penetration test N/30 cm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | | | | | 145 | 9604.7<br>7407.4 | 3.76<br>1.00 | | 0.00016<br>0.00019 | -2.45 | | | | | | | | | | | | | |

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