geotesting®
STUDII GEOTEHNICE ȘI GEOFIZICE

Profilul ~~Forajului~~ / ~~Santului~~ / ~~Pit~~ / Borehole / Profile Nr. S4-FD-1019

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 X : 462767.38 Y: 417413.29

DATA / DATE: 01.09.2016

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

Borcan / Stut / Carota — Jar / Tube / Core

Grosimea stratului / Stratum thickness (m)	Adancimea apei subterane / Underground water depth (m)	Stratificatia / 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)	Numarul probelor / Number and type of samples	Adancimea / Depth (m)	Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005 / Particle size distribution SR EN ISO 14688/2-2005: 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 $U_n = d_{60}/d_{10}$	Limitele Atterberg / Atterberg's limits: 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 ρ_s kN/m³	Greutatea volumica / Unit weight γ kN/m³	Greutatea volumica in stare uscata / Unit dry weight γ_d kN/m³	Porozitatea / Porosity n %	Indicele porilor / Void ratio e	Gradul de umiditate / Degree of saturation S_r
0.10	2.30			Pamant vegetal.														
4.35				Pietris si bolovanis cu nisip galbui - cenusiu.	1	2.5-2.7	4 5 6 10 9 13 29 24	>15				1.31						
1.55				Nisip argilos cenusiu.	2	5.2-5.4	10 28 14 23 24 1	<5				13.4						
												13.4		21.8	19.3	27.30	0.38	0.94

Contractilitatea / Shrinkage-swelling: Umflarea libera / Unconfined swelling U_L %; Sucțiunea 15 bari / Suction 15 bars w_{15} %; Contractia volumica / Volume shrinkage C_v %; Tulb. / Disturbed; Netulb. / Undisturbed; 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 $s_{s\,200}$ %; Coef. compresibilitate volumica / Coefficient of volume change m_v 1/kPa; Coeficientul de compresibilitate / Coefficient of compressibility $a_{v\,200-300}$ 1/kPa; Sensibilitatea la umezire / Susceptibility to wetting m_{sw} %; Efort / Stress σ kPa; Tasare specifica / Specific settlement s_s %; Modulul de deformatie edometrica / Oedometer deformation modulus M kPa

Unconfined swelling U_L	Suction 15 bars w_{15}	Volume shrinkage C_v	Shrinkage limit w_s	Swelling pressure Pu kPa	Oedometer deformation modulus $M_{200-300}$ kPa	Specific settlement at 200 kPa $s_{s\,200}$ %	Coefficient of volume change m_v 1/kPa	Coefficient of compressibility $a_{v\,200-300}$ 1/kPa	Susceptibility to wetting m_{sw} %	Stress σ kPa	Specific settlement s_s %	Oedometer deformation modulus M kPa
					12948.2	0.83		0.00011				

Rezistenta la forfecare / Shear strength: Efort σ/τ / 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 m/s; Continutul in CaCO3 / CaCO3 content %; Penetrarea dinamica standard / Standard penetration test N/30cm

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