geotesting® STUDII GEOTEHNICE ȘI GEOFIZICE

Profilul Forajului ~~Santului~~ Nr. S4-FD-39
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 X : 464674.42 Y: 413881.00
DATA / DATE	13.08.2016

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

Recipient: ☐ Borcan / Jar; ☒ Stut / Tube; ■ Carota / Core

Cota (m)	Grosimea stratului / Stratum thickness (m)	Adancimea apei subterane / Underground water depth (m)	Denumirea stratului / Stratum description (conform Stas 1243-88 si SR EN ISO 14688/2-2005)	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
0.20	0.20		Pamant vegetal.																	
0.90	0.70		Argila nisipoasa cafenie.																	
		3.00	Nisip galbui cu pietris, indesat.	1	2.4-2.6	2	9	12	17	16	17	25	2		>15				10.2	
4.00	3.10			2*	4.0-4.2	40	57	3								71.0	22.9	48.1	18.5	>1
			Argila cafenie, tare.																17.6	
5.00	1.00			3	5.0-5.3	18	72	9	1							39.8	13.8	14.0	18.0	0.85
			Praf argilos, galbui - cafeniu, plastic vartos.																17.8	
6.00	1.00																			

Numarul probelor / Sample	Densitatea scheletului mineral / Skeletal mineral density ρ_s	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 Sr	Umflarea libera / Unconfined swelling U_L	Suctiunea 15 bari / Suction 15 bars w_{15}	Contractia volumica / Volume shrinkage C_v	Limita de contractie / Shrinkage limit w_s	Presiunea de umflare / Swelling pressure Pu (kPa)	Modulul de deformatie edometrica / Oedometer deformation modulus $M_{200-300}$ (kPa)	Tasare specifica la 200 kPa / Specific settlement at 200 kPa ε_{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)	Efort / Effective stress σ/τ 1	σ/τ 2	σ/τ 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
1																													2.00 21/35/48
2*		21.5	18.3	32.83	0.49	0.98	110					12652.1	2.25		0.00012														
3		20.7	17.6	35.40	0.55	0.88																							

Nota:
(*) - Esantion comparabil PNT (proba netulburata) - rezultat informativ

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