geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-48 bis
~~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 : 464719.82 Y: 411613.23

DATA DATE: 27.08.2016

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)	Borcan / Stut / Carota — Numarul probelor	Adancimea	Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005: Argila <0.002	Praf 0.002/0.063	Nisip fin 0.063/0.2	Nisip mediu 0.2/0.63	Nisip mare 0.63/2	Pietris mic 2/6.3	Pietris mediu 6.3/20	Pietris mare 20/63	Bolovanis 63/200	Coeficientul de neuniformitate $U_n = d_{60}/d_{10}$	Limitele Atterberg: Limita de curgere W_L	Limita de plasticitate W_P	Indicele de plasticitate I_p	Umiditatea w %	Indicele de consistenta I_c	Densitatea scheletului mineral ρ_s kN/m³	Greutatea volumica γ kN/m³	Greutatea volumica in stare uscata γ_d kN/m³	Porozitatea n %	Indicele porilor e	Gradul de umiditate Sr	Contractilitatea: Umflarea libera U_L	Sucțiunea 15 bari w_{15}	Contracția volumica ε_v	Limita de contractie w_s	Presiunea de umflare Pu kPa	Compresibilitatea: Modulul de deformatie edometrica $M_{200-300}$ kPa	Tasare specifica la 200 kPa ε_{200} %	Coef. compresibilitate volumica m_v 1/kPa	Coeficientul de compresibilitate $a_{v\,200-300}$ 1/kPa	Sensibilitatea la umezire im_{200} %	Efort σ kPa	Tasare specifica ε %	Modulul de deformatie edometrica M kPa	Rezistenta la forfecare: Efort σ/τ 1	2	3	Unghiul de frecare int. Φ °	Coeziunea c kPa	Felul determinarii	Rezistenta la compresiune cu deformatie laterala libera p_c kPa	Coeficient de permeabilitate k_{fil}	Continutul in CaCO3 %	Penetrarea dinamica standard N_{10}
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)	Jar / Tube / Core — 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	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
0.10	0.10		Pamant vegetal																																																			
		1.90			Pietris cu nisip galbui - cafeniu si rar bolobanis.	1	1.6-2.0	1	0	7	9	10	34	39	>15				1.14			19.6 19.8	17.1 17.2	37.21 36.62	0.59 0.58	0.69 0.70							11759.4 7407.4	3.57 4.90		0.00014 0.00021	1.83																			
2.60	2.50				Argila prafoasa, cafenie, tare.	2	3.1-4.32	35	54	4	2	3	2					52.0	16.3	35.7	15.2 14.9 15.0	>1												30																				
6.00	3.40																																																		

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