geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-1001
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 : 463930.91 Y: 415121.28

DATA DATE: 09.09.2016

Cota fata de: 0.00 Foraj

Borcan / Stut / Carota

Jar / Tube / Core

Grosimea stratului	Adancimea apei subterane	Stratificatia	Formatiunea geologica	DENUMIREA STRATULUI (conform Stas 1243-88 si SR EN ISO 14688/2-2005)	Numarul probelor	Adancimea	Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005: Argila <0.002	Praf 0.063	Nisip fin 0.2	Nisip mediu 0.63	Nisip mare 2	Pietris mic 6.3	Pietris mediu 20	Pietris mare 63	Bolovanis 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 S_r	Contractiitatea: Umflarea libera U_L	Sucsiunea 15 bari w_{15}	Tulb. / Netulb.	Contractia volumica C_v	Limita de contractie w_L	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	Stensibilitatea la umezire Im_{300} %	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 m/s	Continutul in CaCO3 %	Penetrarea dinamica standard $\frac{n}{30\,cm}$
m	m					m	<0.002	0.063	0.2	0.63	2	6.3	20	63	200	$U_n = d_{60}/d_{10}$	W_L	W_p	I_p	w %	I_c	ρ_s kN/m³	γ kN/m³	γ_d kN/m³	n %	e	S_r	U_L	w_{15}		C_v	w_L	Pu kPa	$M_{200-300}$ kPa	ε_{200} %	m_v 1/kPa	$a_{v\ 200-300}$ 1/kPa	Im_{300} %	σ kPa	ε %	M kPa	1	2	3	Φ °	c kPa		p_c kPa	k m/s	CaCO3 %	$\frac{n}{30\,cm}$

Level vs: 0.00 Borehole (plt)

Jar / Tube / Core

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	Shrinkage-swelling: 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	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				Pamant vegetal																																																			
0.70				Nisip fin galbui - cafeniu.																																																		
					1	1.6-1.8	8	5	11	11	11	26	28		>15				0.74																																					
3.95	3.30			Nisip cenuslu cu pietris si rar bolovanis.																																																		
					2	5.0-5.2	6	22	38	26	8				>15				14.5																																					
1.25				Nisip argilos cenuslu.																																																		

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