geotesting®
STUDII GEOTEHNICE ȘI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-01
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 : 464246.55 Y: 414553.62

DATA / DATE: 02.08.2016

Cota luata de: / Level vs:	Grosimea stratului / Stratum thickness	Adancimea apei subterane / Underground water depth	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)
0.00 Foraj / Bore-hole (pit)	m	m			
0.40	0.40				Pamant vegetal.
5.80	5.40	5.70			Pietris cu nisip galbui - cenusiu, mediu indesat.
6.00	0.20				Nisip prafos galbui, cu pietris, indesat.

Borcan / Stut / Carota — Jar / Tube / Core

Numarul probelor / Number and type of samples	Adancimea / Depth	m
1	4.0-4.25	
2	5.8-6.0	

Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005 / Particle size distribution SR EN ISO 14688/2-2005

Argila / Clay	Praf / Silt	Nisip fin / Fine sand	Nisip mediu / Medium sand	Nisip mare / Coarse sand	Pietris mic / Small gravel	Pietris mediu / Medium gravel	Pietris mare / Coarse gravel	Bolovanis / Cobbles	Coeficientul de neuniformitate / Non-uniformity coefficient
<0.002	0.063	0.2	0.63	2	6.3	20	63	200	$U_n = \frac{d_{60}}{d_{10}}$
1 5 3 10 18 21 20 22									>15
4 20 9 20 14 5 19 9									>15

Limitele Atterberg / Atterberg's limits

Limita de curgere / Liquid limit	Limita de plasticitate / Plastic limit	Indicele de plasticitate / Plasticity index
w_L	w_P	I_P

Umiditatea / Water content	Indicele de consistenta / Consistency index	Densitatea scheletului mineral / Skeletal mineral density	Greutatea volumica / Unit weight	Greutatea volumica in stare uscata / Unit dry weight	Porozitatea / Porosity	Indicele porilor / Voids ratio	Gradul de umiditate / Degree of saturation
w %	I_C	ρ_s	$\frac{kN}{m^3}\ \gamma$	$\frac{kN}{m^3}\ \gamma_d$	n %	e	Sr
6.2							
1.3							

Contractilitatea / Shrinkage-swelling

Umflarea libera / Unconfined swelling	Succiunea 15 bari / Suction 15 bars	Contractia volumica / Volume shrinkage	Limita de contractie / Shrinkage limit	Presiunea de umflare / Swelling pressure
U_L	w_{15}	C_v	w_s	Pu kPa
		Tulb. / Netulb.		
		Dist. / Undist.		

Compresibilitatea / Compressibility

Modulul de deformatie edometrica / Oedometer deformation modulus	Tasare specifica la 200 kPa / Specific settlement at 200 kPa	Coef. compresibilitate volumica / Coefficient of volume change	Coeficientul de compresibilitate / Coefficient of compressibility	Sensibilitatea la umezire / Susceptibility to wetting	Efort / Stress	Tasare specifica / Specific settlement	Modulul de deformatie edometrica / Oedometer deformation modulus
$M_{200-100}$ kPa	ε_{200} %	m_v 1/kPa	$a_{v\ 200-100}$ 1/kPa	$i_{m\ 300}$ %	σ kPa	ε %	M kPa

Rezistenta la forfecare / Shear strength

Efort σ/τ / Effective stress σ/τ 1	2	3	Unghiul de frecare int. / Angle of int. friction	Coeziunea / Cohesion
			Φ °	c kPa

Felul determinarii / Type of test	Rezistenta la compresiune cu deformatie laterala libera / Unconfined compressive strength	Coeficient de permeabilitate / Permeability coefficient	Continutul in CaCO3 / CaCO3 content	Penetrarea dinamica standard / Standard penetration test
	p_L kPa	k $\frac{m}{s}$	CaCO3 ‰	$\frac{n}{30\ cm}$
				2.00
				4/5/7
				6.00
				32/R

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