geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-1011
~~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 : 463186.91 Y: 416738.93

DATA DATE: 02.09.2016

Cota fata de: 0.00 Foraj

Borcan / Stut / Carota

Numarul probelor	Adancimea	Compozitie granulometrica (d. in mm) SR EN ISO 14688/2-2005										Limitele Atterberg		Indicele de plasticitate	Umiditatea	Indicele de consistenta	Densitatea scheletului mineral	Greutatea volumica	Greutatea volumica in stare uscata	Porozitatea	Indicele porilor	Gradul de umiditate	Contractilitatea					Compresibilitatea					Rezistenta la forfecare					Felul determinarii	Rezistenta la compresiune cu deformatie laterala libera	Coeficient de permeabilitate	Continutul in CaCO3	Penetrarea dinamica standard
	m	Argila	Prat	Nisip fin	Nisip mediu	Nisip mare	Pietris mic	Pietris mediu	Pietris mare	Bolovanis	Coeficientul de neuniformitate	Limita de curgere	Limita de plasticitate										Umflarea libera	Sucsiunea 15 bari	Contractia volumica (Tulb. / Netulb.)	Limita de contractie	Presiunea de umflare	Modulul de deformatie edometrica	Tasare specifica la 200 kPa	Coef. compresibilitate volumica	Coeficientul de compresibilitate	Sensibilitatea la umezire	Efort	Tasare specifica	Modulul de deformatie edometrica	1	2	3	Unghiul de frecare int.	Coeziunea					
	m	<0.002	0.063	0.2	0.63	2	6.3	20	63	200	$U_n = \frac{d_{60}}{d_{10}}$	W_L	W_p	I_p	w %	I_c	ρ_s	$\frac{kN}{m^3}$ γ	$\frac{kN}{m^3}$ γ_d	n %	e	Sr	U_L	w_{15}	C_v	w_s	Pu kPa	$M_{200-300}$ kPa	ε_{200} %	m_v kPa^{-1}	$a_{v\ 200-300}$ $1/kPa$	Im_{200} %	q kPa	ε %	M kPa	σ/τ			Φ °	c kPa					

Level vs: 0.00 Borehole (pit)

Jar / Tube / Core

Number and type of samples	Depth	Particle size distribution SR EN ISO 14688/2-2005										Atterberg's limits											Shrinkage-swelling					Compressibility						Shear strength									
		Clay	Silt	Fine sand	Medium sand	Coarse sand	Small gravel	Medium gravel	Coarse gravel	Cobbles	Non-uniformity coefficient	Liquid limit	Plastic limit	Plasticity index	Water content	Consistency index	Skeletal mineral density	Unit weight	Unit dry weight	Porosity	Void ratio	Degree of saturation	Unconfined swelling	Suction 15 bars	Volume shrinkage (Dist. / Unclst.)	Shrinkage limit	Swelling pressure	Oedometer deformation modulus	Specific settlement at 200 kPa	Coefficient of volume change	Coefficient of compressibility	Susceptibility to wetting	Stress	Specific settlement	Oedometer deformation modulus	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
																		$\frac{kN}{m^3}$ γ	$\frac{kN}{m^3}$ γ_d	n %	e	Sr						$M_{200-300}$ kPa	ε_{200} %	m_v kPa^{-1}	$a_{v\ 200-300}$ $1/kPa$	Im_{200} %	q kPa	ε %	M kPa	σ/τ			Φ °	c kPa		p_c kPa	κ m^2/s	CaCO3 %	$\frac{N}{30\ cm}$
0.10	0.10																																											
		Pamant vegetal.																																											
1.85	1.75	Nisip cafeniu.																																											
1	1.2-2.35	7	1	2	1	3	16	70							3.45																														
2.95	1.10	Pietris si bolovanis cu nisip cenusiu.																																											
2	3.6-3.8	28	36	15	14	6	1					39.1	12.0	27.1	12.1 11.6 12.0	1.00		22.5 22.6	20.2 20.2	25.80 25.83	0.35 0.35	0.90 0.93					280	11101.6 14814.8	3.71 0.25		0.00012 0.00017	4.36													
6.00	3.05	Argila nisipoasa, galenie tare.																																											

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