geotesting®
STUDII GEOTEHNICE ŞI GEOFIZICE

Profilul ~~Forajului~~ ~~Santului~~ Nr. S4-FD-1014
~~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 : 463006.32 Y: 416978.30

DATA DATE: 02.09.2016

Cota fata de: 0.00 Foraj	Grosimea stratului	Adancimea apei subterane	Stratificata	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 0.063	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 Un=d60/d10	Limitele Atterberg: Limita de curgere	Limita de plasticitate	Indicele de plasticitate	Umiditatea	Indicele de consistenta	Densitatea scheletului mineral	Greutatea volumica	Greutatea volumica in stare uscata	Porozitatea	Indicele porilor	Gradul de umiditate	Contracilitatea: Umflarea libera	Sucsiunea 15 bari	Contractia volumica: Tulb. / Netulb.	Limita de contractie	Presiunea de umflare	Compresibilitatea: 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	Rezistenta la forfecare: Efort σ/τ 1	2	3	Unghiul de frecare int.	Coeziunea	Felul determinarii	Rezistenta la compresiune cu deformatie laterala libera	Coeficient de permeabilitate	Continutul in CaCO3	Penetrarea dinamica standard
	m	m					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	γ kN/m³	γ_d kN/m³	n %	e	Sr	U_L	w_{15}	C_v	w_s	P_u kPa	$M_{200-300}$ kPa	ε_{200} %	m_v X_2 kPa	$a_{v\ 200-300}$ 1/ kPa	Im_{200} %	σ kPa	ε %	M kPa	1	2	3	Φ °	c kPa		p_c kPa	k $\frac{m}{s}$	CaCO3 %	N $\frac{N}{10\ cm}$
Level vs: 0.00 Bore-hole (plt)	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	Plasticity 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 swelling	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.																																												
1.40	1.30				Nisip caferiu.	1	1.55-1.6	5	5	4	8	17	45	16		>15				5.19																															
2.10	0.70				Pietris cu nisip cenusiu si rar bolovanis.																																												
					Praf argilos nisipos, cenusiu, plastic consistent.	2	3.4-3.6	9	41	38	12					>15	28.8	12.3	16.3	16.6	0.74																	11428.6 9090.9	4.65		0.00016											
5.00	2.90	4.40				3	5.0-5.25	26	49	18	6	1					46.2	13.6	32.7	16.5 19.9	0.81		20.8	17.8	32.67	0.49	0.90																										
6.00	1.00				Argila prafoasa nisipoasa, cenusie, plastic vartoasa.																																												
																					18.0 19.5		20.5 20.7	17.4 17.3	36.19 36.24	0.57 0.57	0.88 0.93						535	15249.3 11428.6 M70-900	2.56 1.50		0.00010 0.00014	6.22										

Intocmit: ing. V. Marin

Verificat: ing. A. Diaconu