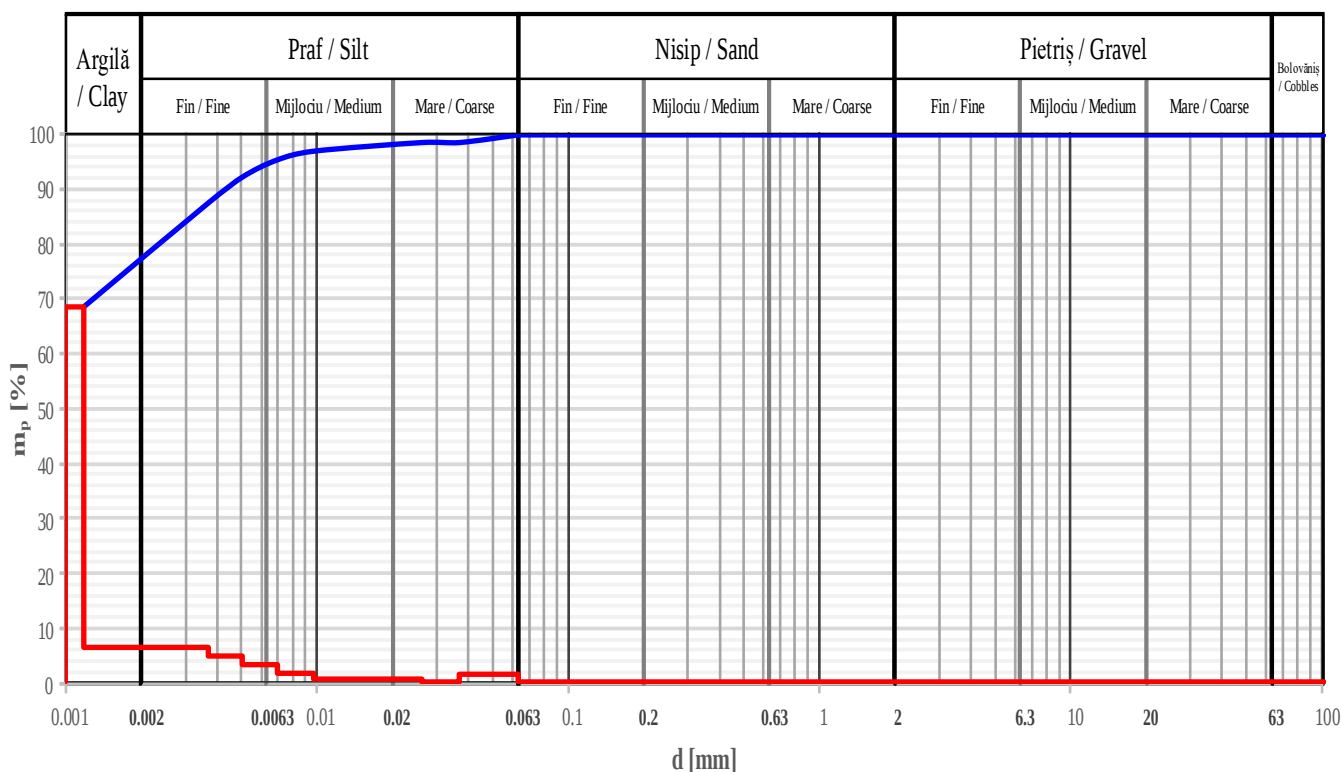


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FTS 77
 Proba/Sample: PT 3
 Adancimea/Depth(m): 3,00

Raport de incercare nr. / Test report no. 75 1047



Curba granulometrica / Granulometric curve

Identificarea și clasificarea pământurilor SR EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 / STAS 1913/5-85											
Argila / Clay (CI)											
cenusie Un = #N/A											
Conform SR EN ISO 14688/2-2005, la cerința beneficiarului	Pământ fin / Fine				Pământ grosier / Coarse						Pământ foarte grosier / Very coarse
75	Praful (Si)				Nisip (Sa)			Pietris (Gr)			Bolovanis (Co)
	Argila (CI)	Fin (fSi)	Mediu (mS)	Mare (cSi)	Fin (fSa)	Mediu (mSa)	Mare (cSa)	Fin (fGr)	Mediu (mGr)	Mare (cGr)	
	75	25	0	0	0	0	0	0	0	0	
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
%	75	19	4	2	0	0	0	0	0	0	0

CLASIFICAREA PĂMÂNTURILOR /SR Pământ fin / Fine soil
 EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 #N/A

Executat de / Performed by:
 ing. Nina IOSIF

Nina IOSIF

Sef Laborator / Laboratory head: Constanta ANDREI

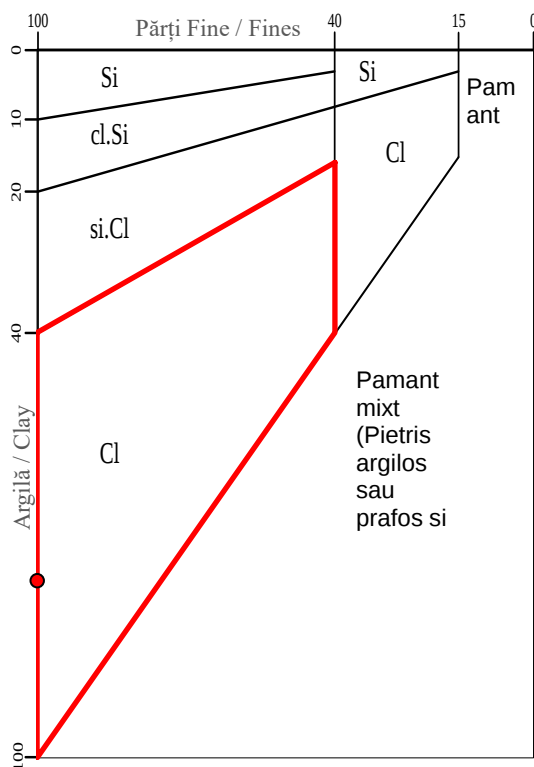
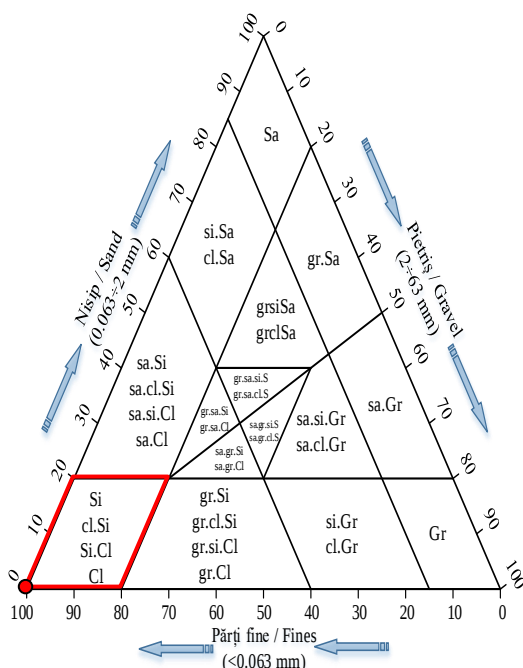


Data / Date: 17.12.2020

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	d (mm)	mp (%)
CERNERE	100	100,0
	100	100,0
	100	100,0
	100	100,0
	100	100,0
	100	100,0
	90	100,0
	63	100,0
	45	100,0
	31,5	100,0
	22,4	100,0
	16	100,0
	11,2	100,0
	5,6	100,0
	3,15	100,0
SEDIMENTARE	2	100,0
	0,5	100,0
	0,25	100,0
	0,10	100,0
	0,063	100,0
	0,063	#####
	0,037	98,60
	0,026	98,60
	0,019	98,08
	0,013	97,55
	0,010	97,02
	0,007	95,44
	0,005	92,28
	0,004	87,53
	0,003	81,21
	0,002	74,88
	0,001	68,56



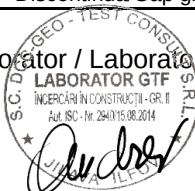
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

Tip pamant / Soil group	Tip fractiune		%	C _u (Un)	C _c	Forma curbei granulometrice / Shape of grading curve	C _u (Un)	C _c
Pamant fin / Fine	Argila	Cl	75	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	25			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	0	3---6	< 1	Uniformitate medie / Medium uniformity		
	Pietris	Gr	0	6---15	< 1	Neuniforma / Non-uniform		
Pamant foarte grosier / Very coarse	Bolovanis	Co		>15	1---3	Discontinua / Gap graded		
				>15	<0,5			

Executat de / Performed by :
 ing. Nina IOSIF

Nina IOSIF

Sef Laborator / Laboratory head: Constanta ANDREI



COD PROBA 75 1047

Raport de incercare nr. / Test report no. 75 1048

**DETERMINAREA LIMITELOR DE PLASTICITATE /
DETERMINATION OF ATTEBERG LIMITS
STAS 1913/4-86**

Nr. de caderi ale cupei (N)	25	UMIDITATE NATURALA NATURAL MOISTURE STAS 1913/1-82			LIMITA DE CURGERE LIQUID LIMIT W _L %				LIMITA DE FRAMANTARE PLASTIC LIMIT W _P %		
Adancimea de patrundere a conului (S) mm	10				Metoda cu cupa						
					45	33	23	16			
PROBA UMEDA + TARA A (gr)		150,00			96,14	98,55	96,93	100,17	49,60	49,75	50,48
PROBA USCATA + TARA B (gr)		118,57			65,92	67,31	66,00	67,68	46,39	46,51	47,07
TARA C (gr)					34,07	35,09	34,85	35,66	35,52	35,41	35,69
A - B		31,43			30,22	31,24	30,93	32,49	3,21	3,24	3,41
B - C		118,57			31,84	32,21	31,14	32,01	10,86	11,09	11,37
W(%) = (A-B)/(B-C)*100		26,51			94,90	96,98	99,31	101,49	29,56	29,23	30,00
W(%) MEDIU		26,51			98,84				29,60		

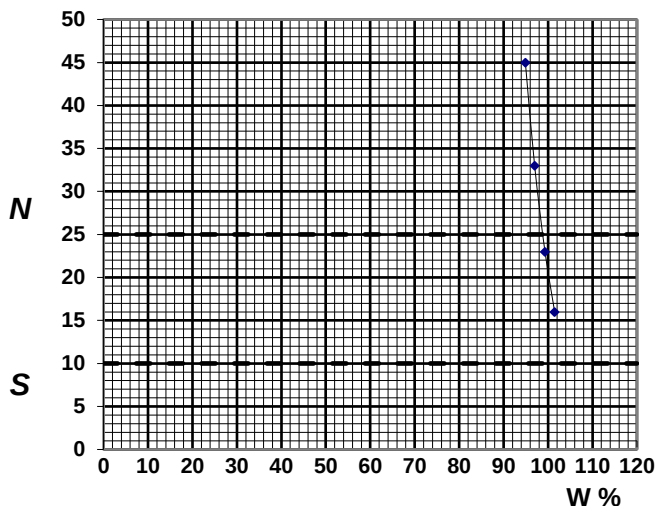
DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Argila cenusie cu FeO tare / very stiff consistency

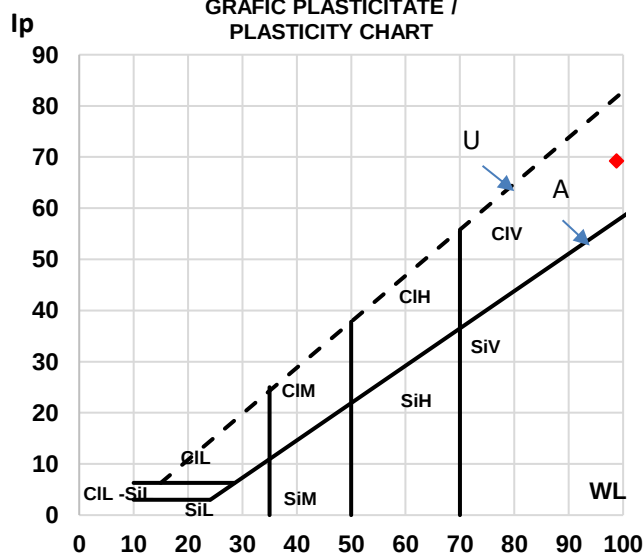
SR EN ISO 14688/1/2-2018 Pamant fin cu plasticitate foarte mare / Fine soil, very high plasticity

CIV

GRAFICUL LIMITEI SUPERIOARE DE PLASTICITATE
UPPER LIMIT OF PLASTICITY CHART



GRAFIC PLASTICITATE /
PLASTICITY CHART



SR EN ISO 14688/2-2018					SR EN ISO 14688/2-2018		
LIMITA DE FRAMANTARE / PLASTIC LIMIT	W _P =	29,60	%	Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit	
UMIDIT. NATUR. / NATURAL MOISTURE	W =	26,51	%	Cl Clay	Low	redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	98,84	%	Si Silt	Medium	medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _p =W _L -W _P	69,24	%		Heigh	mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _c = (W _L - W) / I _p	1,04			Very heigh	foarte mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _l = (W - W _P) / I _p	-0,04			O	organici	

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 17.12.2020

COD PROBA 75

1048

Sef Laborator / Laboratory head: Constanta ANDREI

