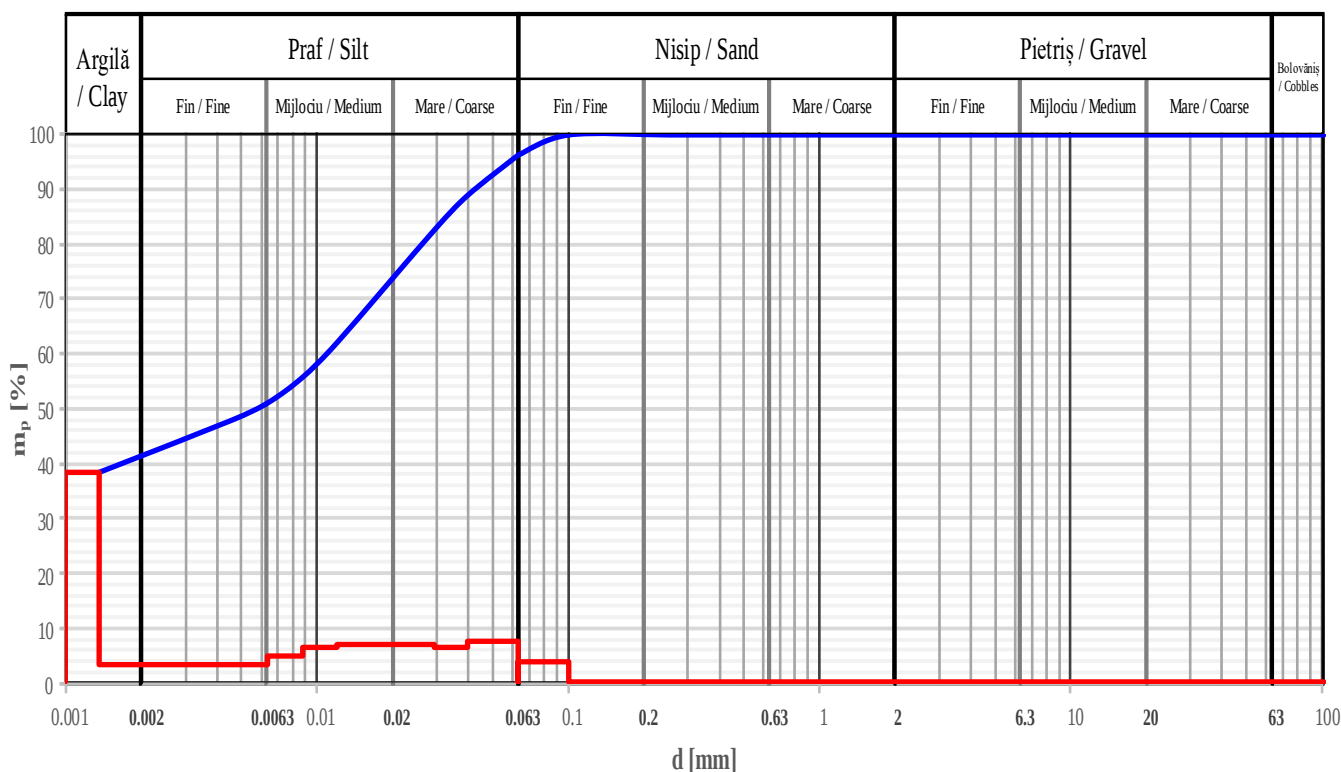


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FTN 45
 Proba/Sample: PT 6
 Adancimea/Depth(m): 6,00

Raport de incercare nr. / Test report no. 75 953



Curba granulometrica / Granulometric curve

Identificarea si clasificarea pamanturilor SR EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 / STAS 1913/5-85											
Argila / Clay (Cl)						cafenie			Un = #N/A		
Conform SR EN ISO 14688/2-2005, la cerinta beneficiarului	Pamant fin / Fine				Pamant grosier / Coarse						Pamant foarte grosier / Very coarse
	Argila (Cl)	Praf (Si)			Nisip (Sa)			Pietris (Gr)			Bolovanis (Co)
		Fin (fSi)	Mediu (mS)	Mare (cSi)	Fin (fSa)	Mediu (mSa)	Mare (cSa)	Fin (fGr)	Mediu (mGr)	Mare (cGr)	
	40	56			4			0			0
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
%	40	11	23	22	4	0	0	0	0	0	0

CLASIFICAREA PAMANTURILOR /SR Pamant 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

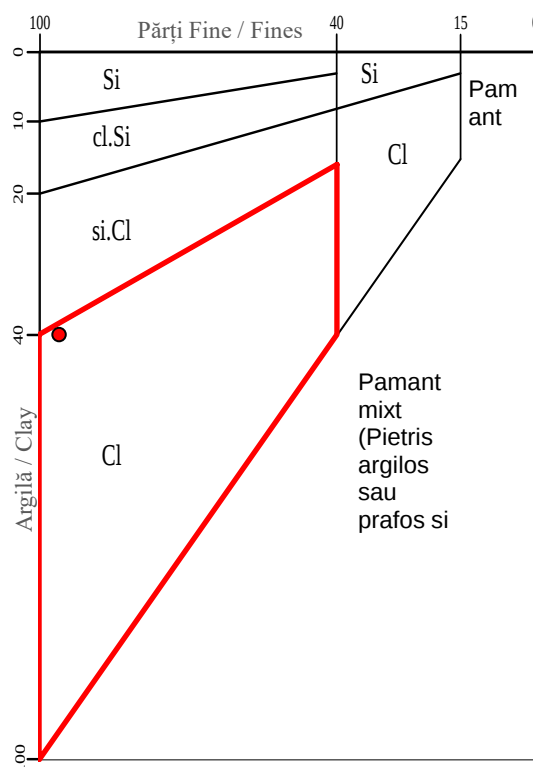
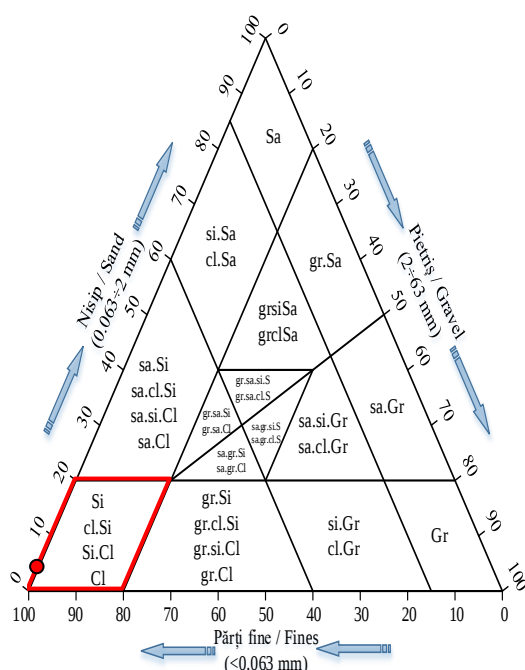


Data / Date: 17.12.2020

COD PROBA 75 953

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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	96,3
	0,063	96,32
	0,040	88,92
	0,029	82,59
	0,022	75,74
	0,016	68,89
	0,012	62,03
	0,009	55,71
	0,006	50,96
	0,005	47,80
	0,003	44,64
	0,002	41,47
	0,001	38,31



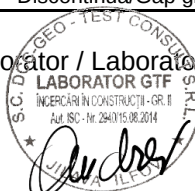
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

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	40	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	56			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	4	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 75 953

Raport de incercare nr. / Test report no. 75 954

**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						
					43	32	22	14			
PROBA UMEDA + TARA A (gr)		150,00			25,94	27,75	26,09	28,48	15,85	15,99	16,63
PROBA USCATA + TARA B (gr)		120,67			20,57	21,96	20,65	22,33	15,17	15,29	15,85
TARA C (gr)					10,18	11,20	10,96	11,77	11,63	11,52	11,80
A - B		29,33			5,37	5,79	5,44	6,15	0,67	0,70	0,78
B - C		120,67			10,39	10,76	9,69	10,56	3,54	3,77	4,05
W(%) = (A-B)/(B-C)*100		24,31			51,73	53,84	56,15	58,26	19,03	18,56	19,26
W(%) MEDIU		24,31			55,46				18,95		

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

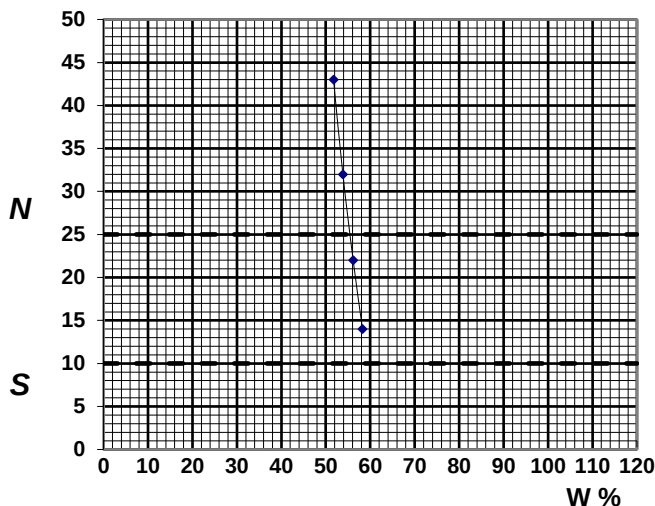
Argila cafenie cu concrețiuni calcaroase plastic vartoasa / stiff consistency

SR EN ISO 14688/1/2-2018

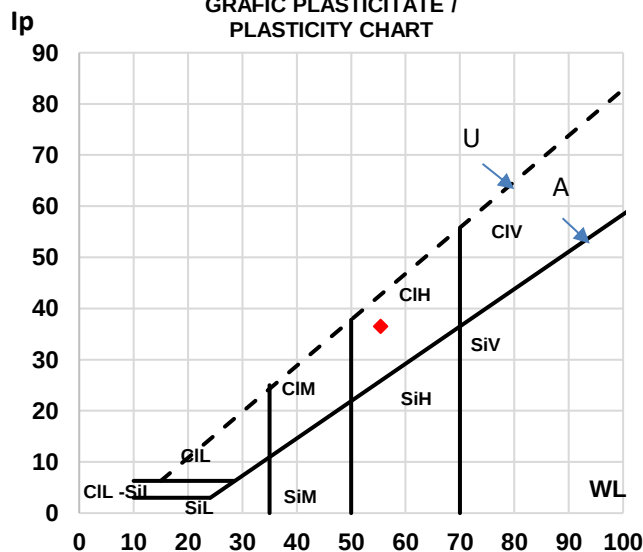
Pamant fin cu plasticitate mare / Fine soil, heigh plasticity

CIH

GRAFICUL LIMITEI SUPERIOARE DE PLASTICITATE
UPPER LIMIT OF PLASTICITY CHART



GRAFIC PLASTICITATE /
PLASTICITY CHART



					SR EN ISO 14688/2-2018		
LIMITA DE FRAMANTARE / PLASTIC LIMIT	W _P =	18,95	%		Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit
UMIDIT. NATUR. / NATURAL MOISTURE	W =	24,31	%		Cl Clay	Low redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	55,46	%		Si Silt	Medium medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _P =W _L -W _P	36,51	%			Heigh mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _C = (W _L - W) / I _P	0,85				Very foarte heigh mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _L = (W - W _P) / I _P	0,15				O organig	

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 17.12.2020

COD PROBA 75

954

Sef Laborator / Laboratory head: Constanta ANDREI