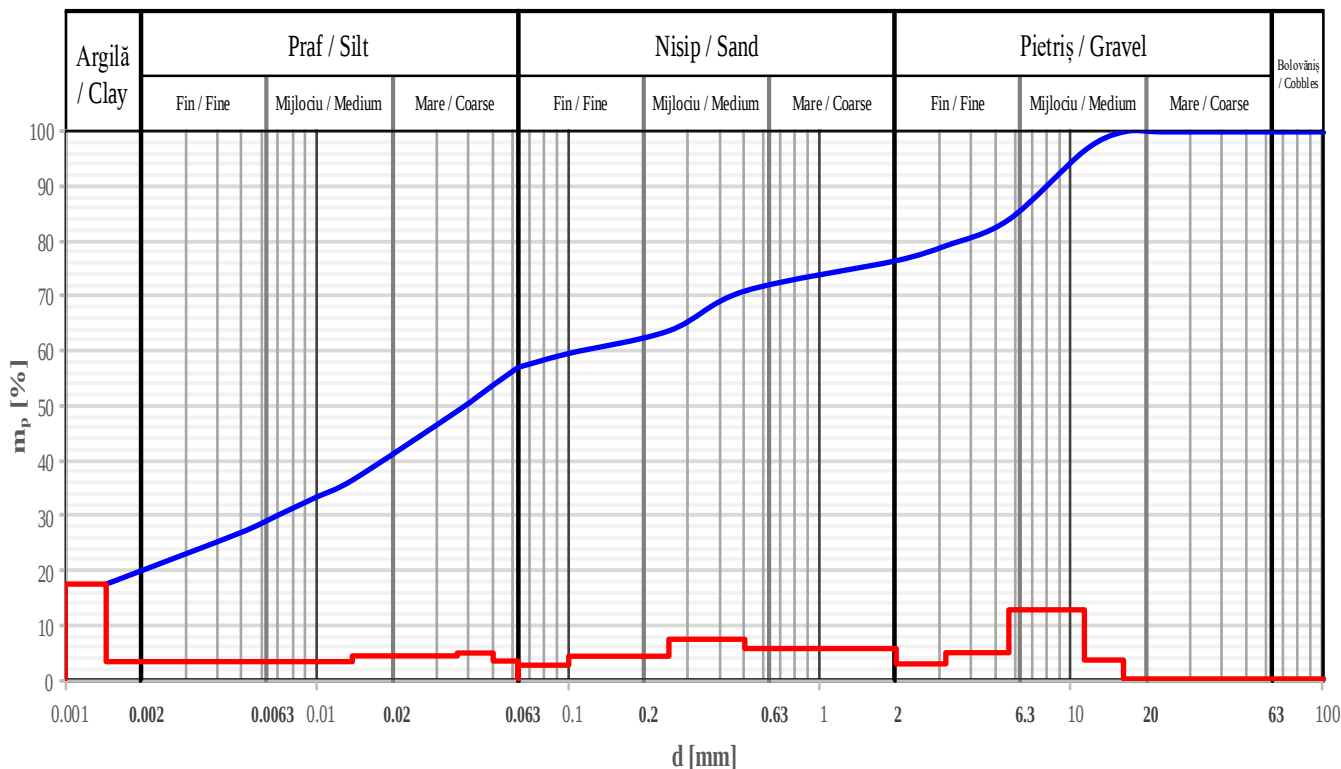


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FTN 41
 Proba/Sample: PT 2
 Adancimea/Depth(m): 2,00

Raport de incercare nr. / Test report no.75 1096



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 prafoasa cu pietris / Gravelly silty clay (gr.si.Cl)								cafeniu		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)	
	19	38			19			24			0
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
%	19	10	12	16	5	9	5	10	14	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

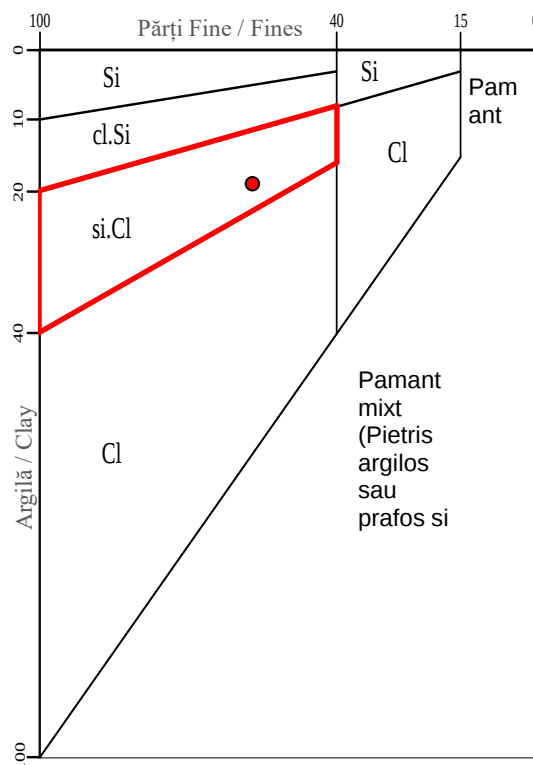
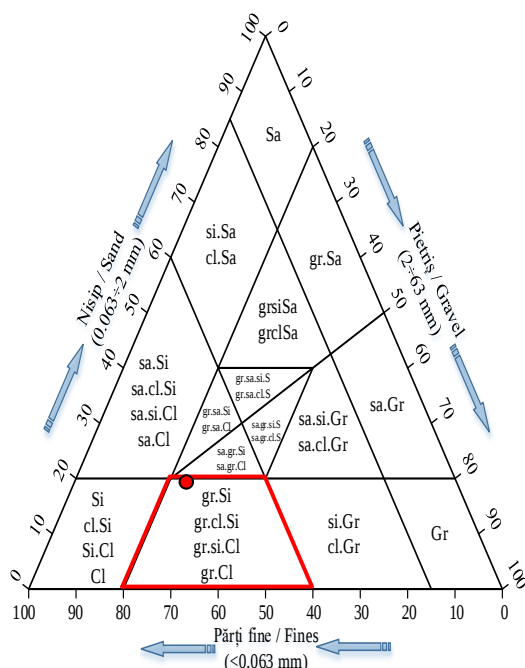


Data / Date: 13.01.2021

COD PROBA 75 1096

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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	96,6
	5,6	84,0
	3,15	79,2
SEDIMENTARE	2	76,5
	0,5	70,9
	0,25	63,6
	0,10	59,5
	0,063	57,0
	0,063	56,96
	0,050	53,71
	0,036	48,97
	0,026	44,75
	0,019	40,53
	0,014	36,31
	0,010	33,15
	0,007	29,99
	0,005	26,83
	0,004	23,66
	0,003	20,50
	0,001	17,34



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	19	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	38			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	19	3----6	< 1	Uniformitate medie / Medium uniformity		
	Pietris	Gr	24	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 1096

Raport de incercare nr. / Test report no.75 1097

**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						
					40	30	20	12			
PROBA UMEDA + TARA A (gr)		150,00			24,19	25,94	24,50	26,71	16,09	16,25	16,86
PROBA USCATA + TARA B (gr)		137,79			20,98	22,37	21,06	22,74	15,59	15,71	16,27
TARA C (gr)					10,59	11,61	11,37	12,18	12,04	11,93	12,21
A - B		12,21			3,21	3,57	3,44	3,97	0,50	0,54	0,59
B - C		137,79			10,39	10,76	9,69	10,56	3,54	3,77	4,05
W(%) = (A-B)/(B-C)*100		8,86			30,95	33,17	35,49	37,61	14,06	14,44	14,61
W(%) MEDIU		8,86			34,33				14,37		

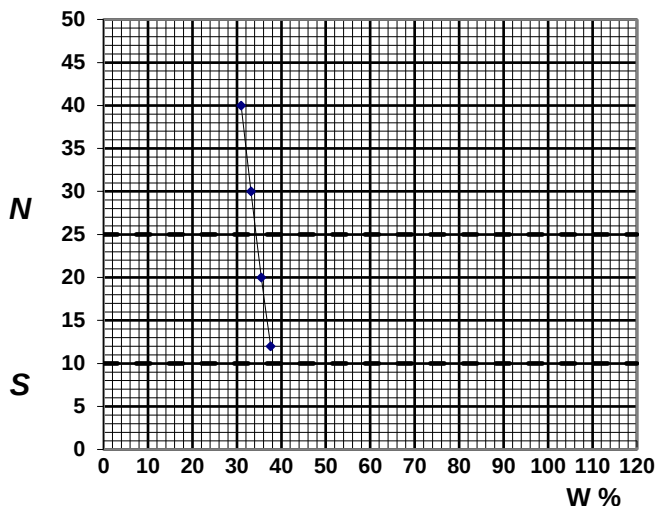
DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Nisip argilos cafeniu cu pietris tare

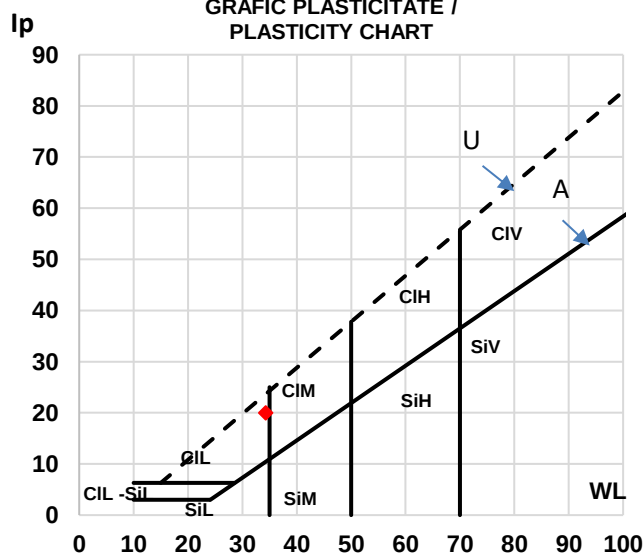
SR EN ISO 14688/1/2-2018 Pamant fin cu plasticitate redusa / Fine soil, low plasticity

CIL

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 =	14,37	%	Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit	
UMIDIT. NATUR. / NATURAL MOISTURE	W =	8,86	%	Cl Clay	Low	redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	34,33	%	Si Silt	Medium	medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _P =W _L -W _P	19,96	%		Heigh	mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _C = (W _L - W) / I _P	1,28			Very heigh	foarte mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _L = (W - W _P) / I _P	-0,28			O	organici	

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 13.01.2021

COD PROBA 75

1097

Sef Laborator / Laboratory head: Constanta ANDREI

