

Logo of **TERRA DRILL**
GEOTECHNICAL STUDIES

Addressed to Târgu Mureș City Hall
Mrs. Delia Gozman

Additions to the Geotechnical Study no. 2573/2024 – Terra Drill

Following the observations received from OAR (Romanian Order of Architects) dated 9.08.2024, we have supplemented the geotechnical study with the information requested. Therefore:

- At point 1 – we resend the plan with the positioning of the drillings and dynamic penetrations;
- At point 2 – the initial study included 2 penetration tests; in chapter 3 there was a writing error. However, according to the contract with the Târgu Mureș City Hall, we had to perform 3 penetration tests, not 2, so we carried out the additional investigation in the field, thus attaching the additional test (P3).
- At point 3 – the lack of a water sample from the drilling was found. We collected a water sample from the F1 drilling (hippodrome) and sent it for analysis to the Wessling România company. We attach the analysis report. It results that there is no water aggressive to concrete.

Thank you for your cooperation!

Daniel Rosca
Digitally signed by Daniel Rosca
Date: 2024.08.29
15:45:55 +03'00'

SC TERRA DRILL SRL
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PLAN OF THE STUDIED AREA AND LOCATION OF THE DRILLINGS



F1, F2, F3, F4 – Geotechnical drillings
P1, P2, P3 – Dynamic penetration tests

Zoning plan provided by Tg. Mureș City Hall
Completed by Sc Terra Drill Srl

Daniel Rosca

Digitally signed by Daniel Rosca

Date: 2024.08.29

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Terra Drill Srl

Dynamic Penetration Test No. 3

Instrument used... DPSH (Dynamic Probing Super Heavy)

Client: Targu Mures City Hall

Date: 26/08/2024

Description: Dynamic Penetration Test

Location: Hippodrome – Municipal Park

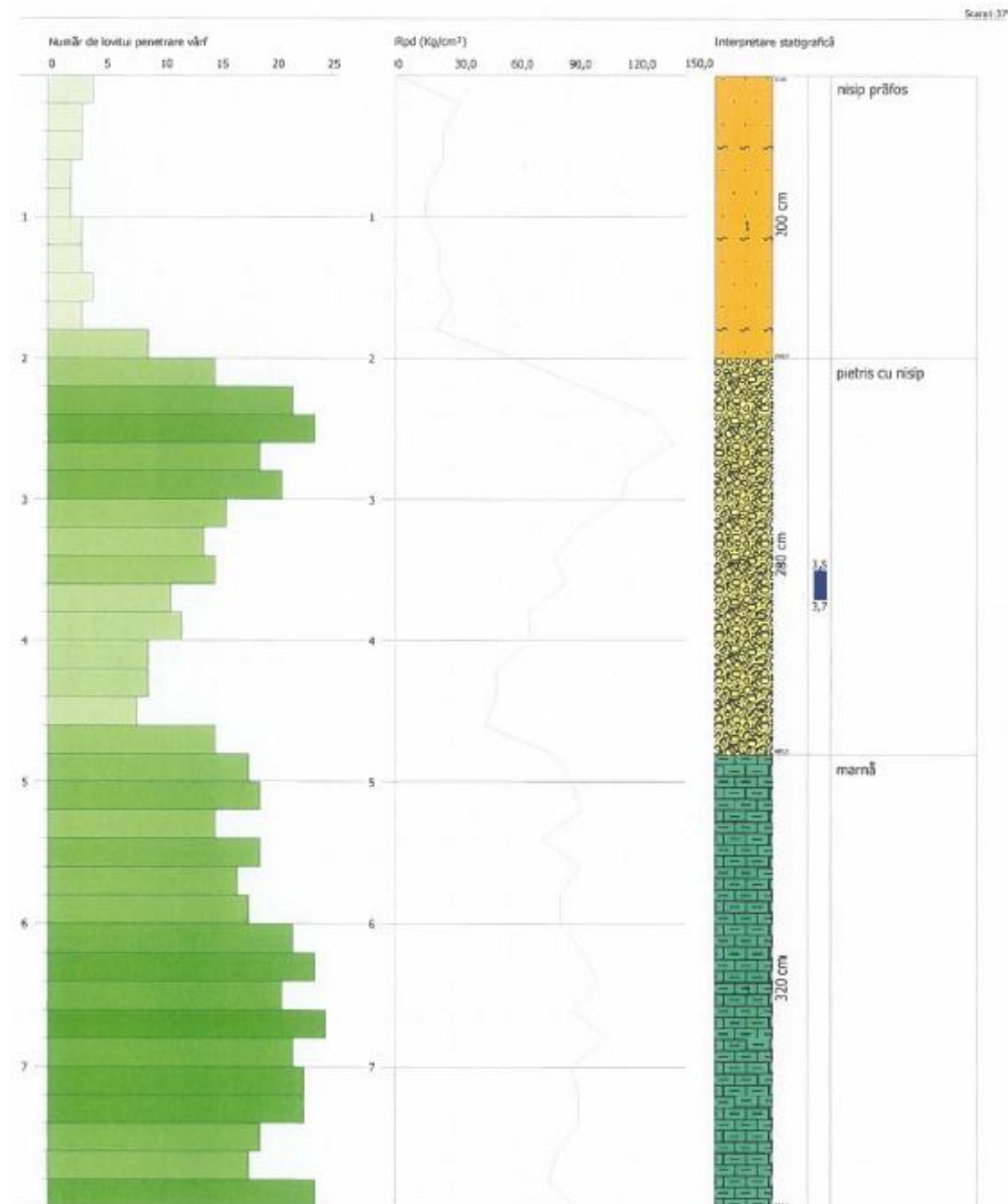
Scale 1:37

Number of peak penetration blows

Rpd (Kg/cm²)

Stratigraphic interpretation

Dusty sand /
Sandy gravel /
Marl



SIGNATURE 1

Illegible

SIGNATURE 2

illegible

TEST REPORT
2419946/1/27.08.2024

Beneficiary: TERRA DRILL SRL Ernei, Mureș County
Client order: WR 3133/21.08.2021

Start of testing: 21.08.2024
End of testing: 26.08.2024

Division Director
Engineer Alin Moldovan

Digitally signed by
Alin Moldovan
WESSLING logo

Declaration: The results of this test report refer only to the sample that was analysed.
The test report was issued in electronic format and is valid with a qualified electronic signature according to the legislative regulations in force.
The test report may only be reproduced in full.

Warning: the beneficiary becomes the owner of the results only upon full payment of the invoices. The provider reserves the right to withdraw the test reports in the event of non-full payment of the invoices for the services provided.

Sampling**Sampler:** TERRA DRILL SRL Ernei, Mureș County**Beneficiary:** TERRA DRILL SRL Ernei, 24 F Principală Str., Mureș County**Sampling place:** Hippodrome, Insulei Str., Târgu Mureș Municipality, Mureș County

Sample code	Subsample code	Sample name	Sampling date	Date of receipt	Type of sample	Quantity
23400	0000362514	Groundwater	20.08.2024	21.08.2024	Groundwater	2 L PE

Aggressiveness of water on concrete

Groundwater

- (1) IL-03-01, SR EN ISO 10523:2012
(2) IL-06-07, SR EN ISO 11885:2009
(3) EPA Method 9056A:2007, IL-04-08, SR EN ISO 10304-1:2009
(4) IL-03-09, Ed03

Determinations	U.M.	Sample code
		23400
pH (25°C) ⁽¹⁾	pH units	7.2
Magnesium ⁽²⁾	mg/dm ³	4.03
Sodium ⁽²⁾	mg/dm ³	17.1
Chlorides ⁽³⁾	mg/dm ³	18.5
Sulphates ⁽³⁾	mg/dm ³	6.57
Aggressive carbon dioxide ⁽⁴⁾	mg/dm ³	6.07

Equipment used:ICP-OES PE Optima 7300 DV;
Ion chromatograph Dionex Aquion-2;
Inolab 720 pH meter

Târgu Mureș, 27 August 2024

Head of Laboratory
Chemist Bódi EnikőQuality Manager
Engineer Socaci Florin