

Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748818.2, 5427612.5 NZTM**

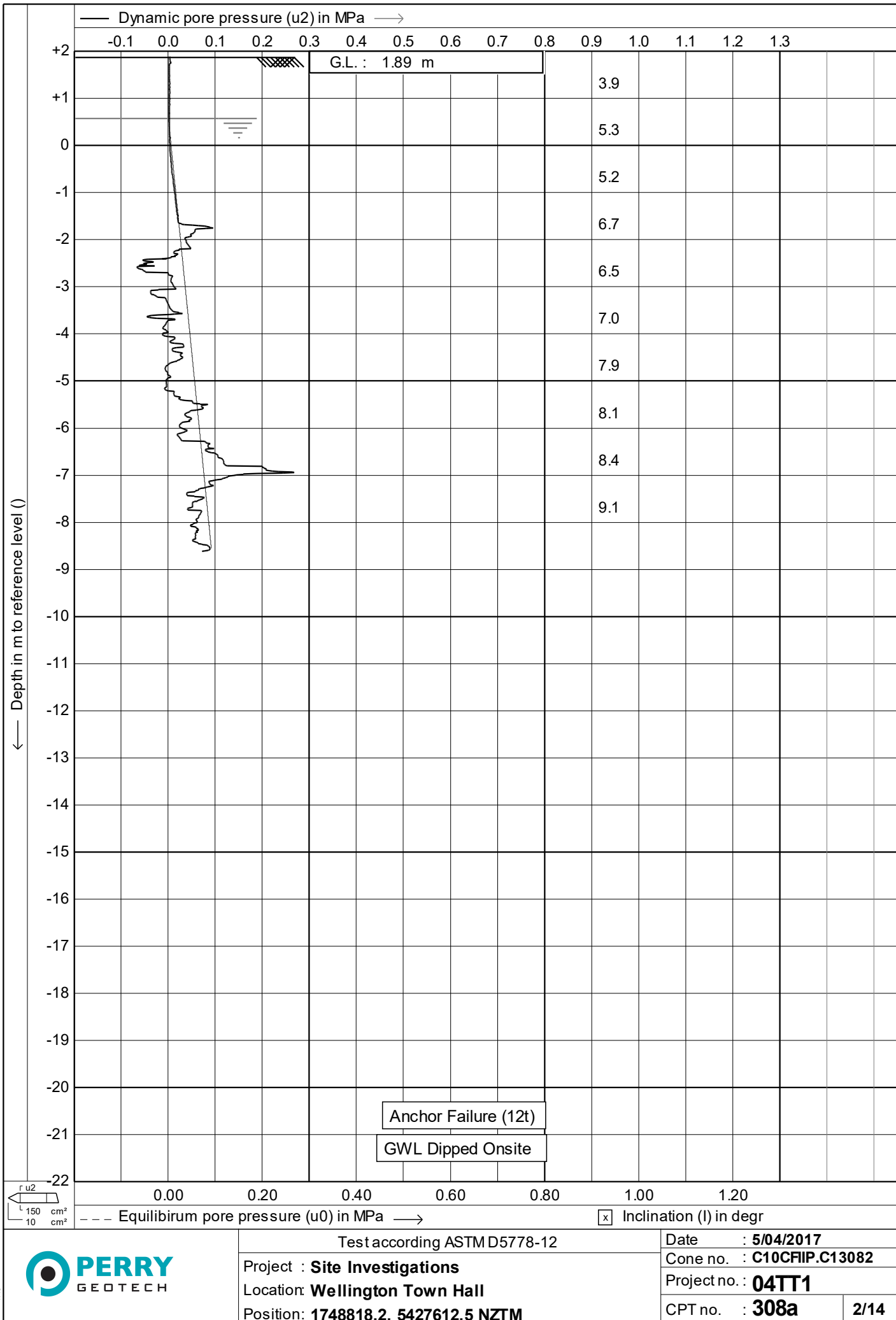
Date : **5/04/2017**

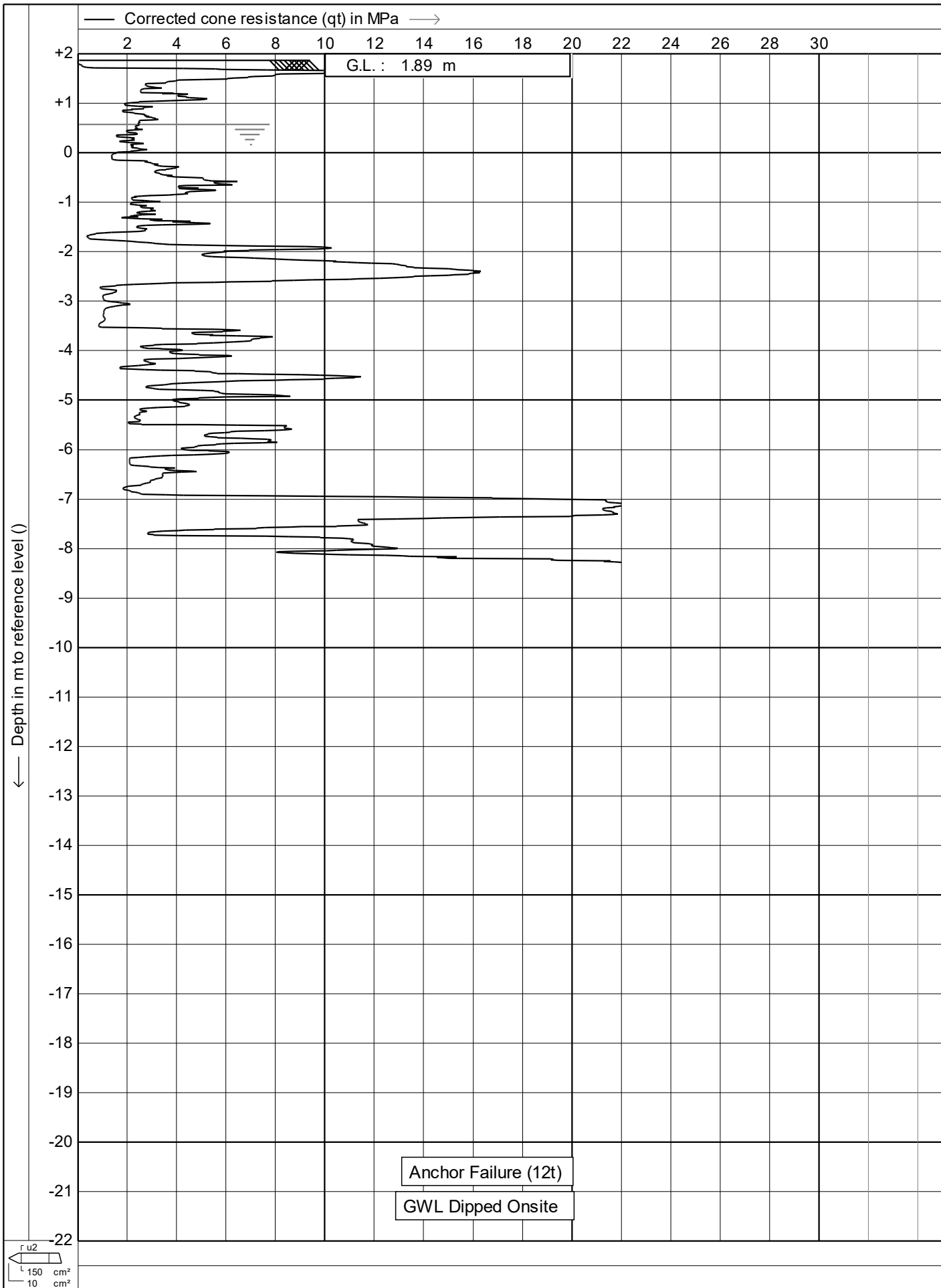
Cone no. : **C10CFIP.C13082**

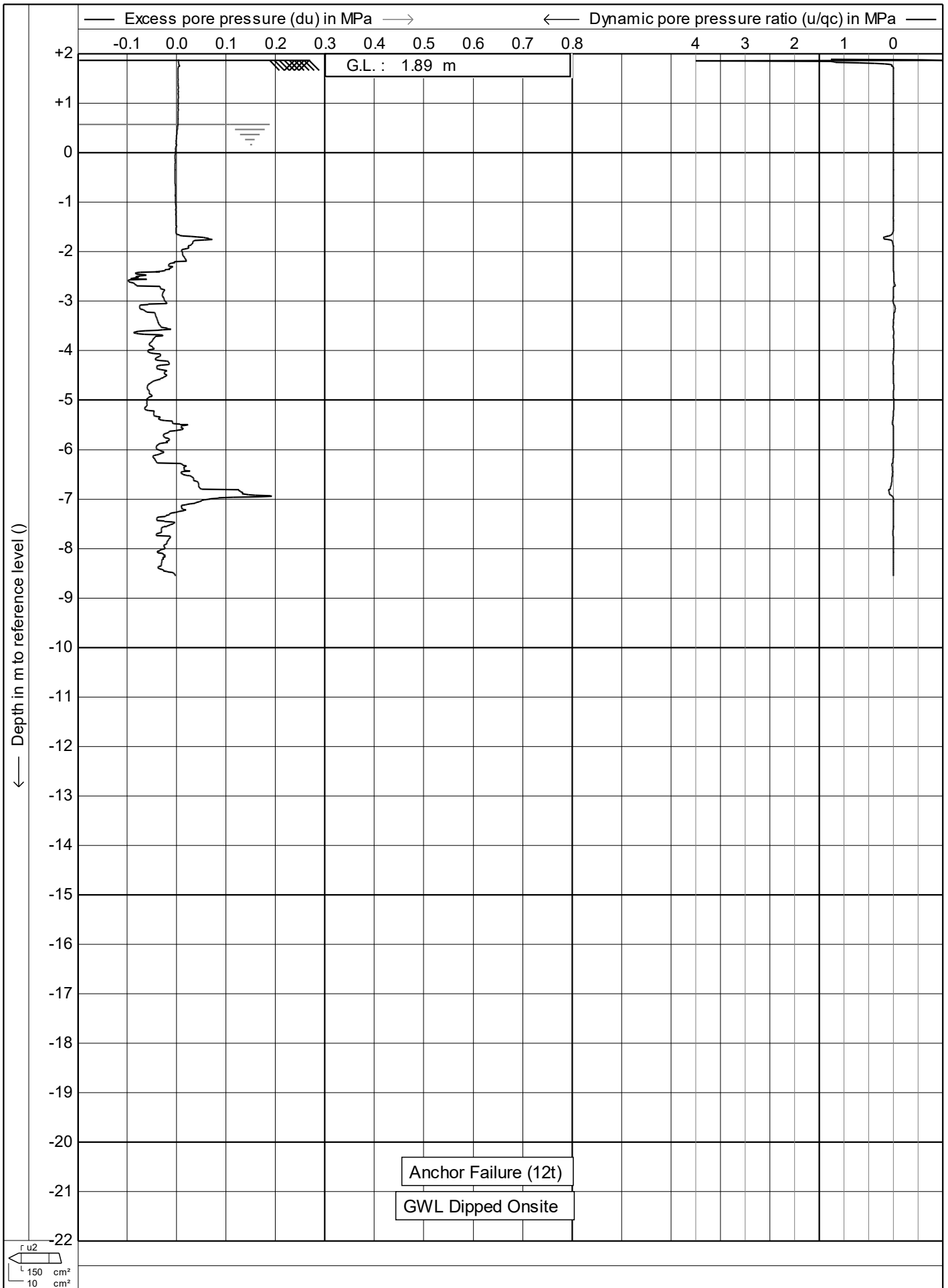
Project no. : **04TT1**

CPT no. : **308a**

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← Depth in m to reference level ( )

— Effective cone resistance ( $q_e$ ) in MPa —→

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

G.L. : 1.89 m

Anchor Failure (12t)

GWL Dipped Onsite

150 cm<sup>2</sup>  
10 cm<sup>2</sup>



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← Depth in m to reference level ( )

— Total vertical stress (rov,z) in kPa →

50 100 150 200 250 300 350 400 450 500 550 600 650 700 750

G.L. : 1.89 m

+2  
+1  
0  
-1  
-2  
-3  
-4  
-5  
-6  
-7  
-8  
-9  
-10  
-11  
-12  
-13  
-14  
-15  
-16  
-17  
-18  
-19  
-20  
-21  
-22

Anchor Failure (12t)

GWL Dipped Onsite



--- Effective vertical stress (rov,z') in kPa →

100

200

300

400

500

600

700



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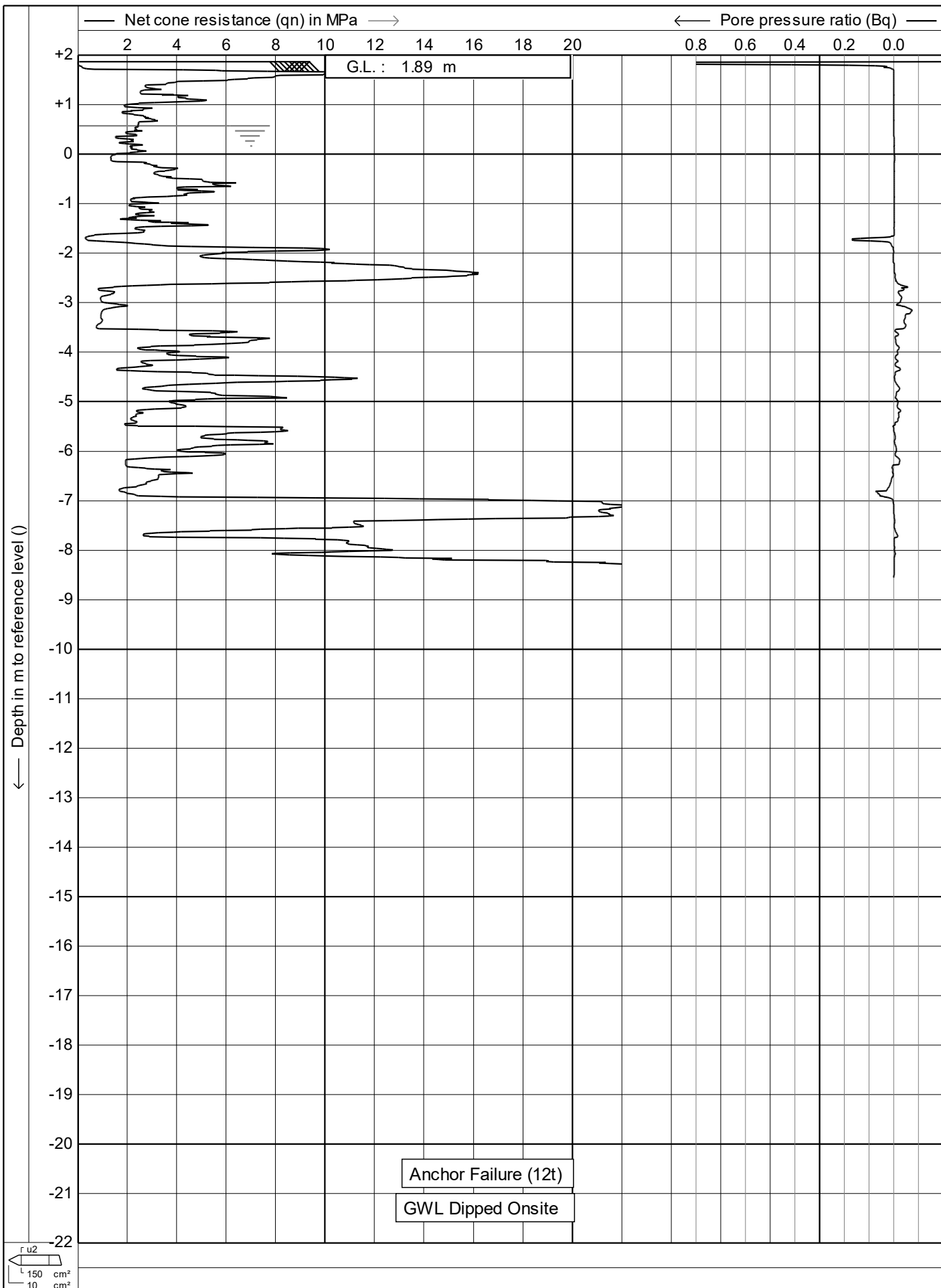
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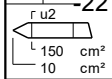
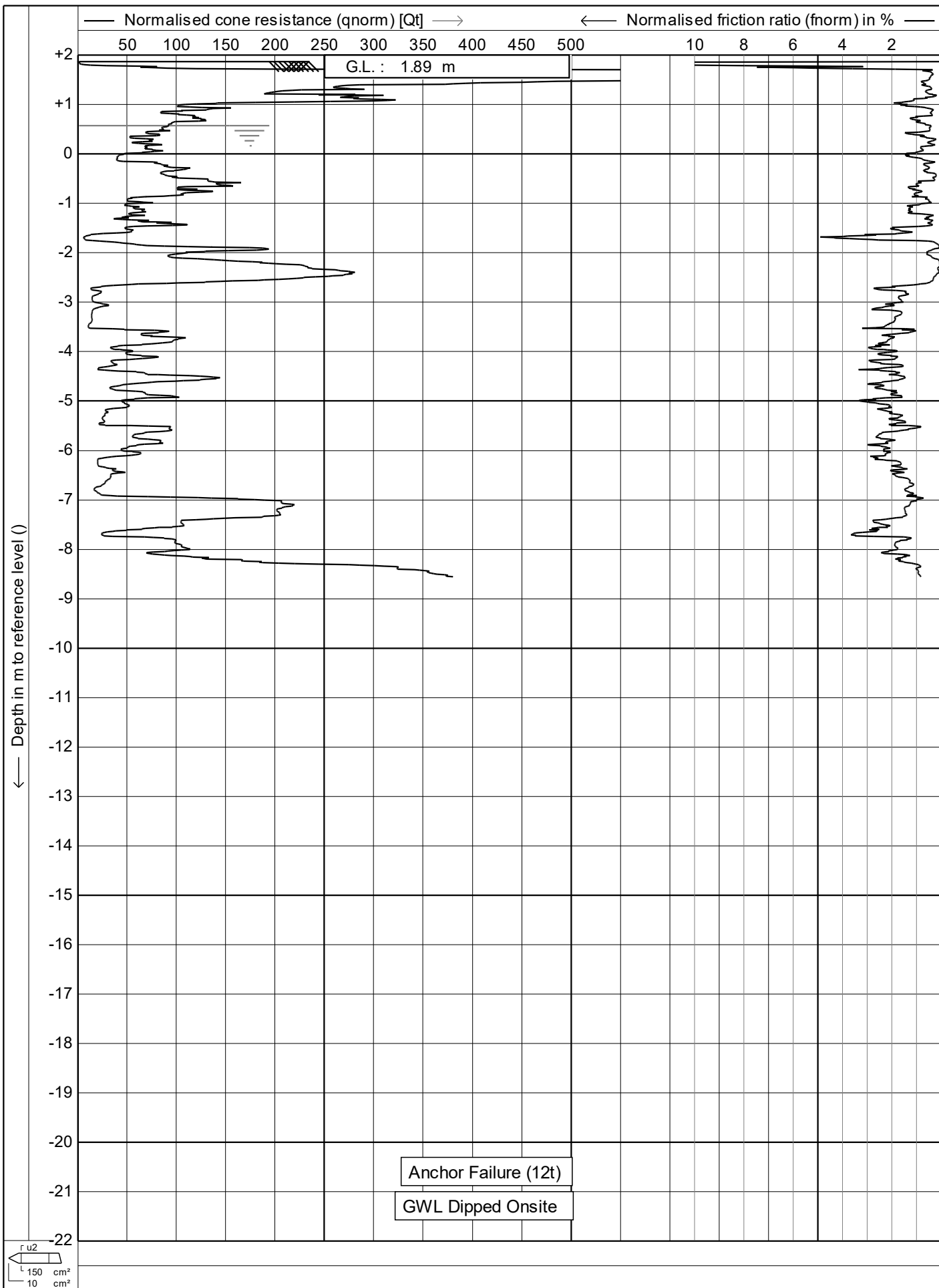
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← Depth in m to reference level ( )

— Soil behaviour type index (Ic) —→

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5

G.L. : 1.89 m

(2) Organic soils  
(3) Clay  
(4) Silt mixtures  
(5) Sand mixtures  
(6) Sand clean to silty  
(7) Gravelly sand

1.45  
150 cm²  
10 cm²

7

6

5

4

3

2



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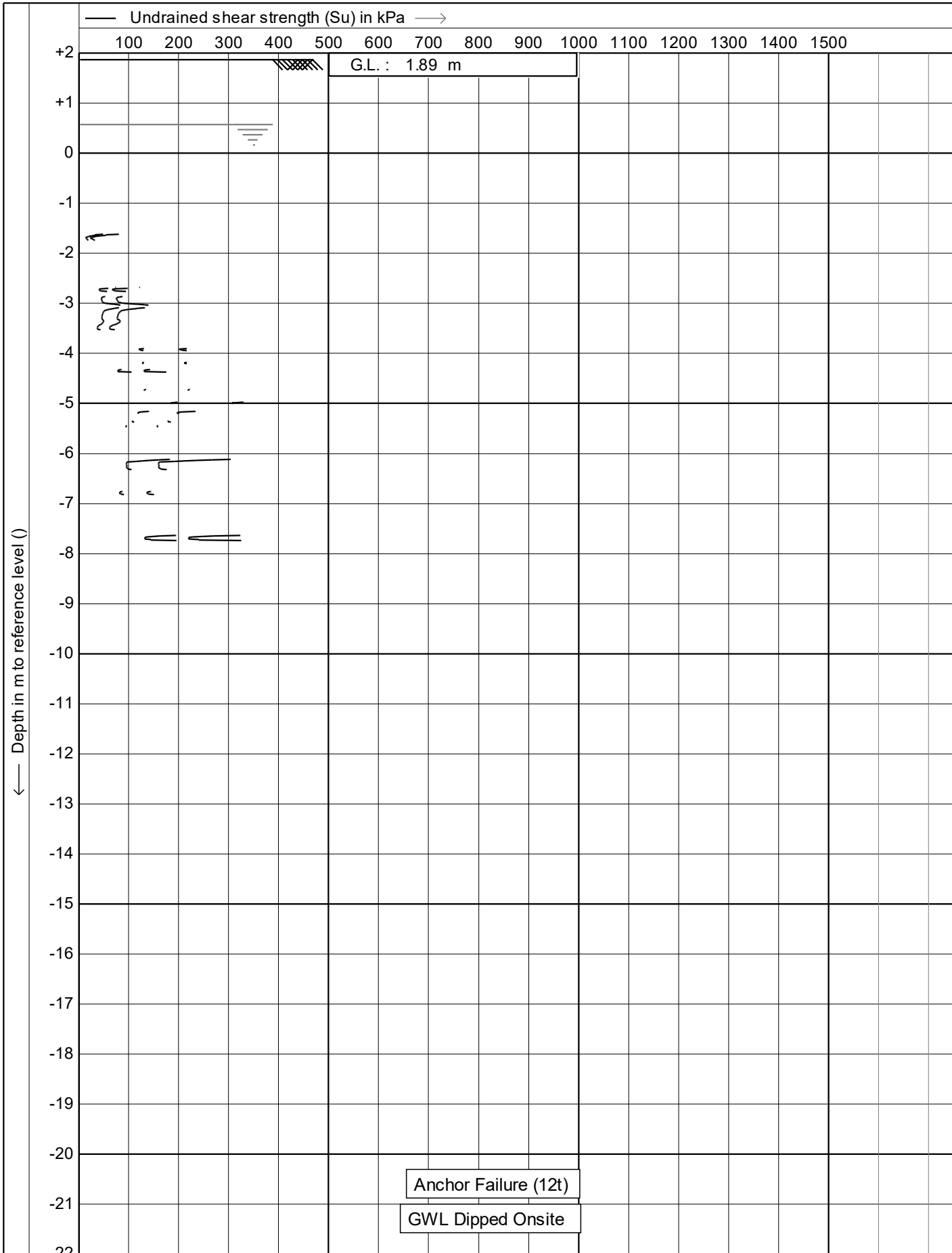
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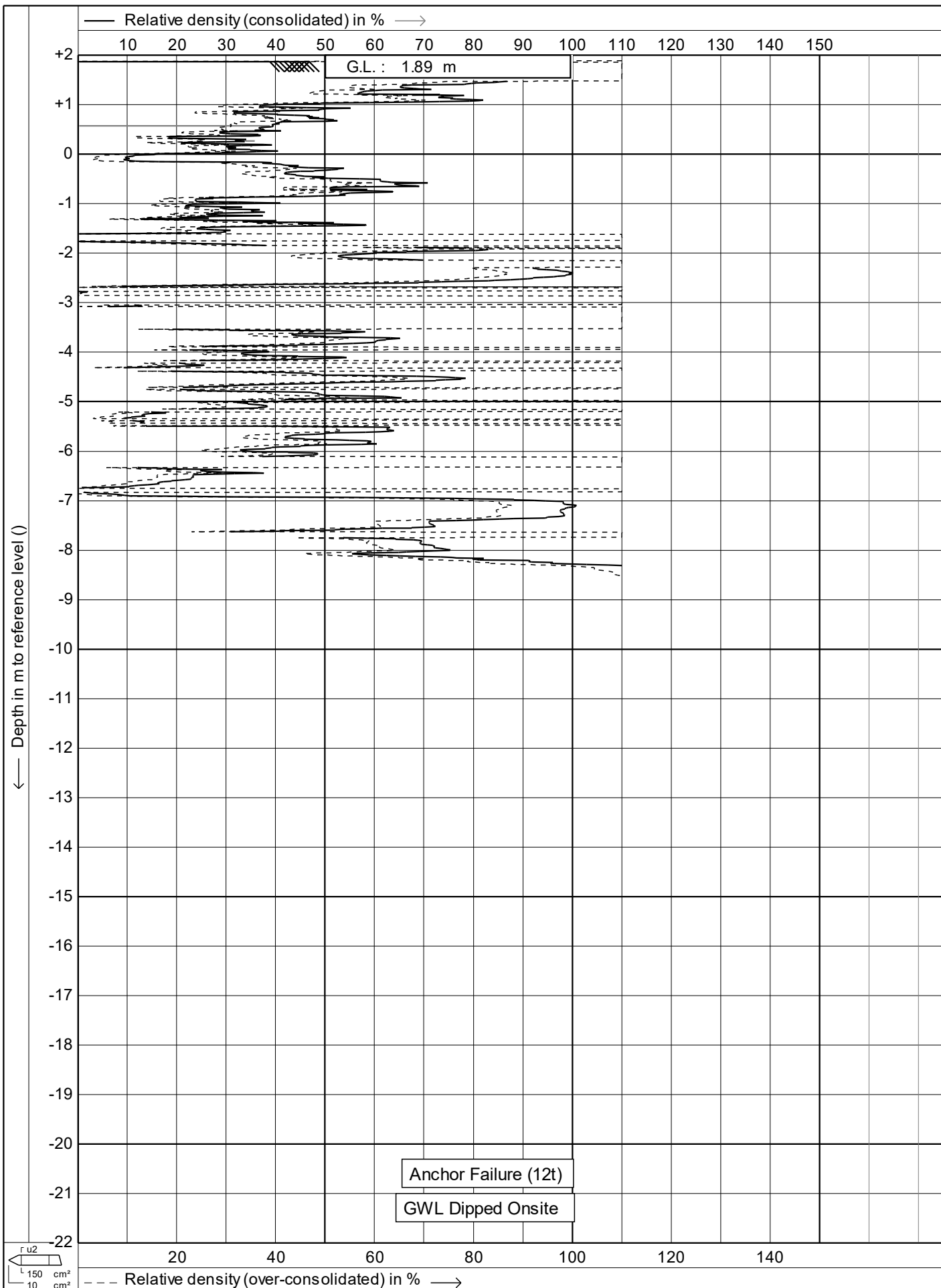
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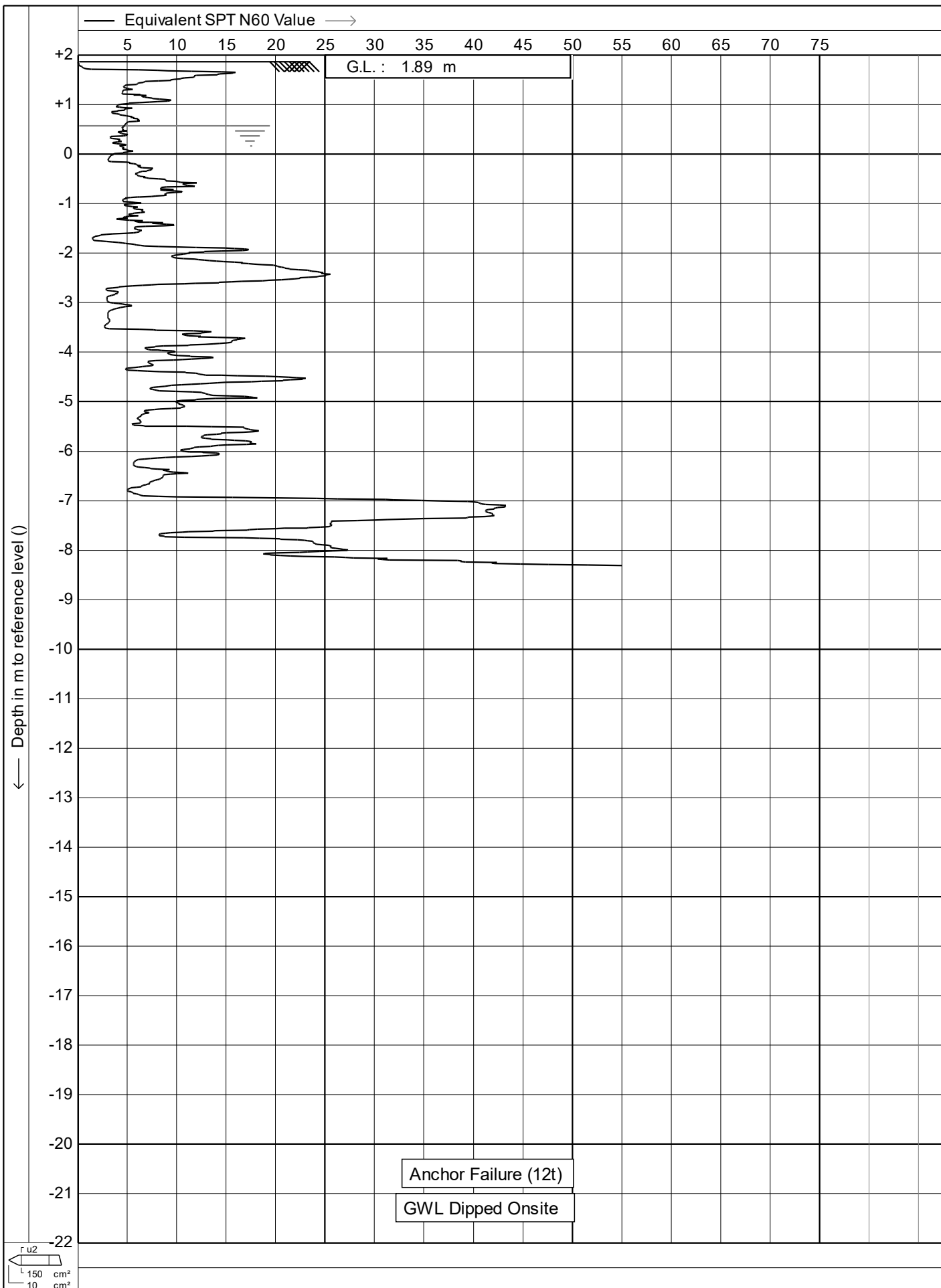
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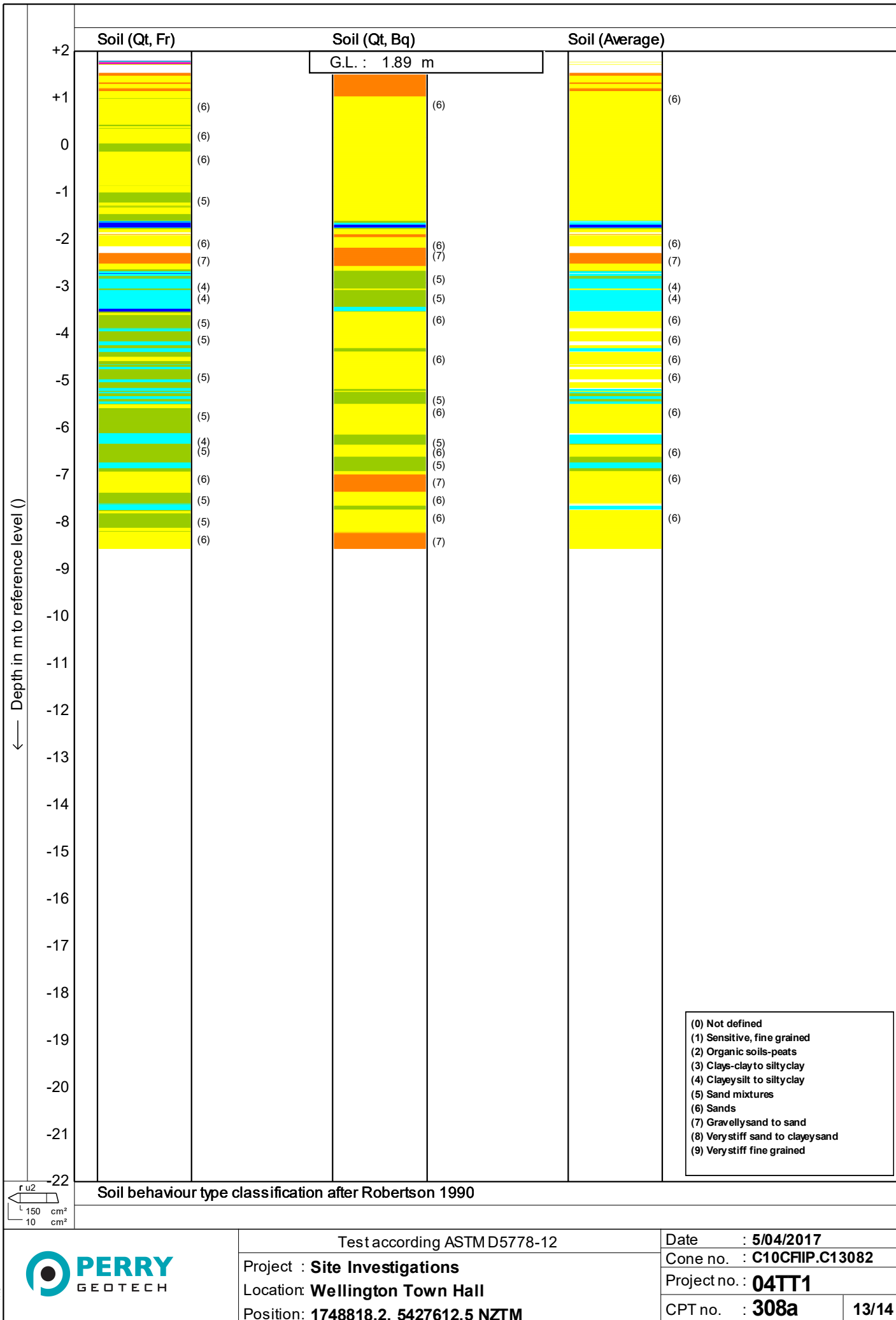
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← Depth in m to reference level ( )

— Internal friction angle in degrees —→

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

G.L. : 1.89 m

Anchor Failure (12t)

GWL Dipped Onsite

150 cm<sup>2</sup>  
10 cm<sup>2</sup>



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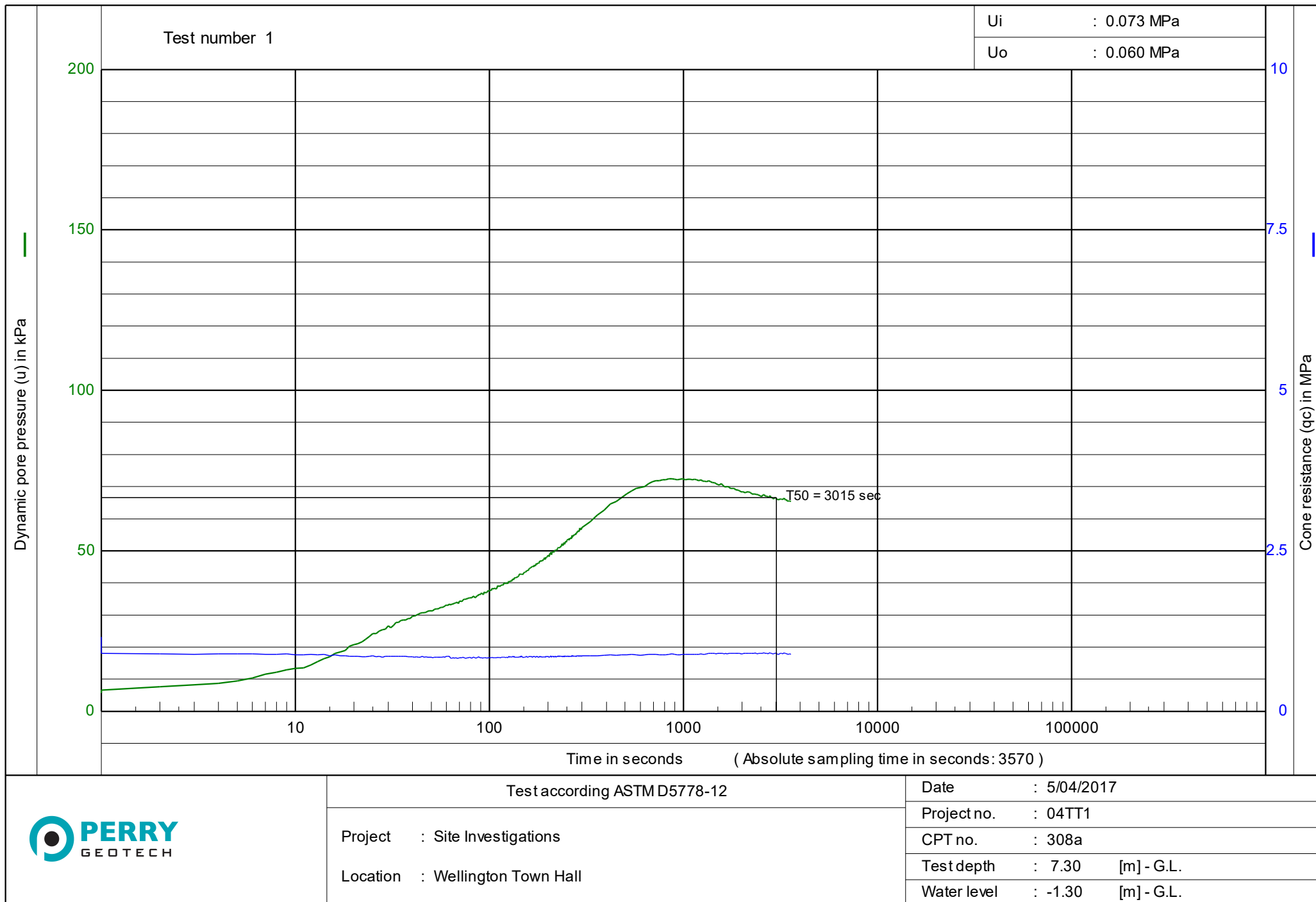
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Test depth : 7.30 [m] - G.L.

Water level : -1.30 [m] - G.L.