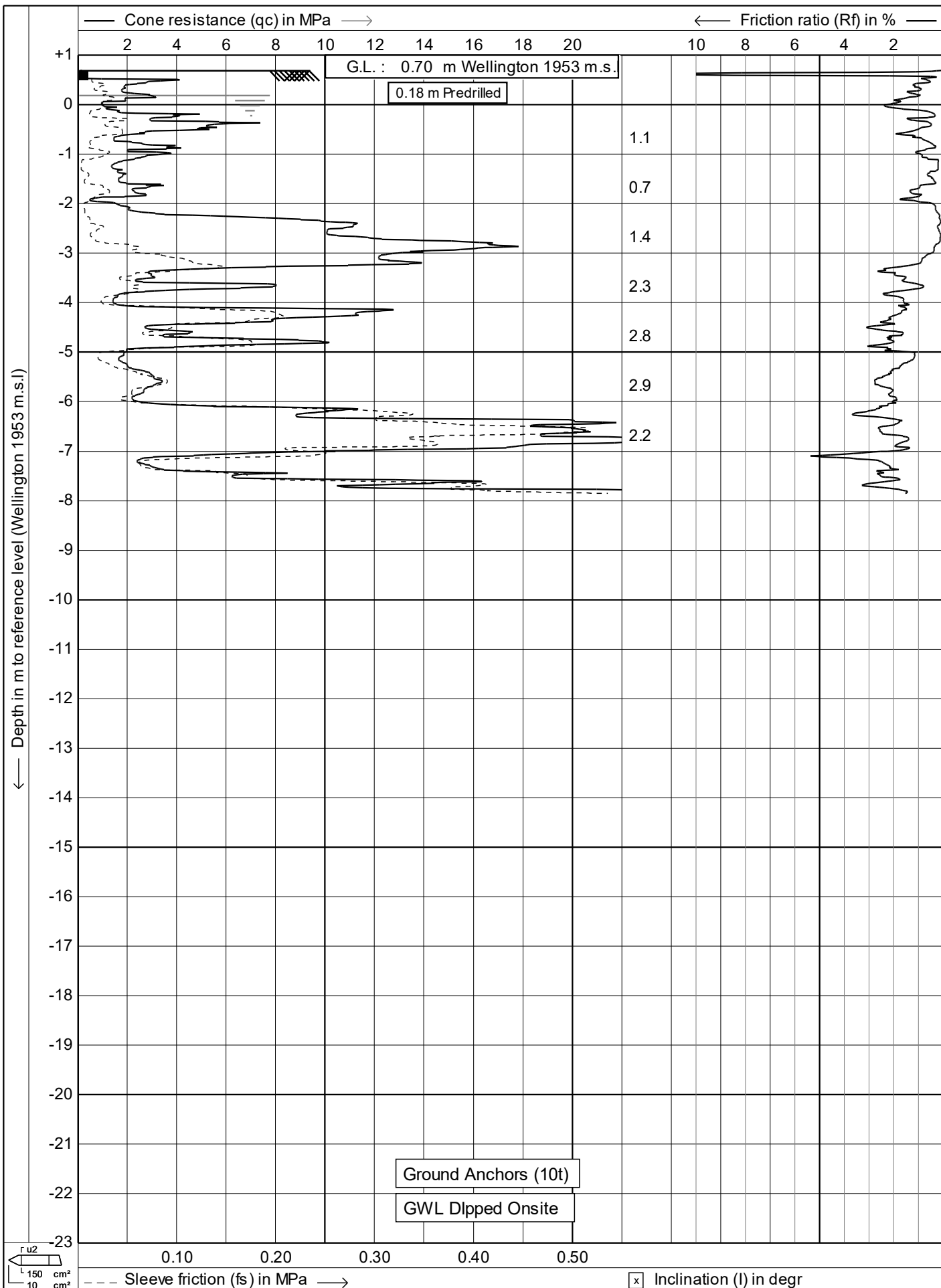


← Depth in m to reference level (Wellington 1953 m.s.l)



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

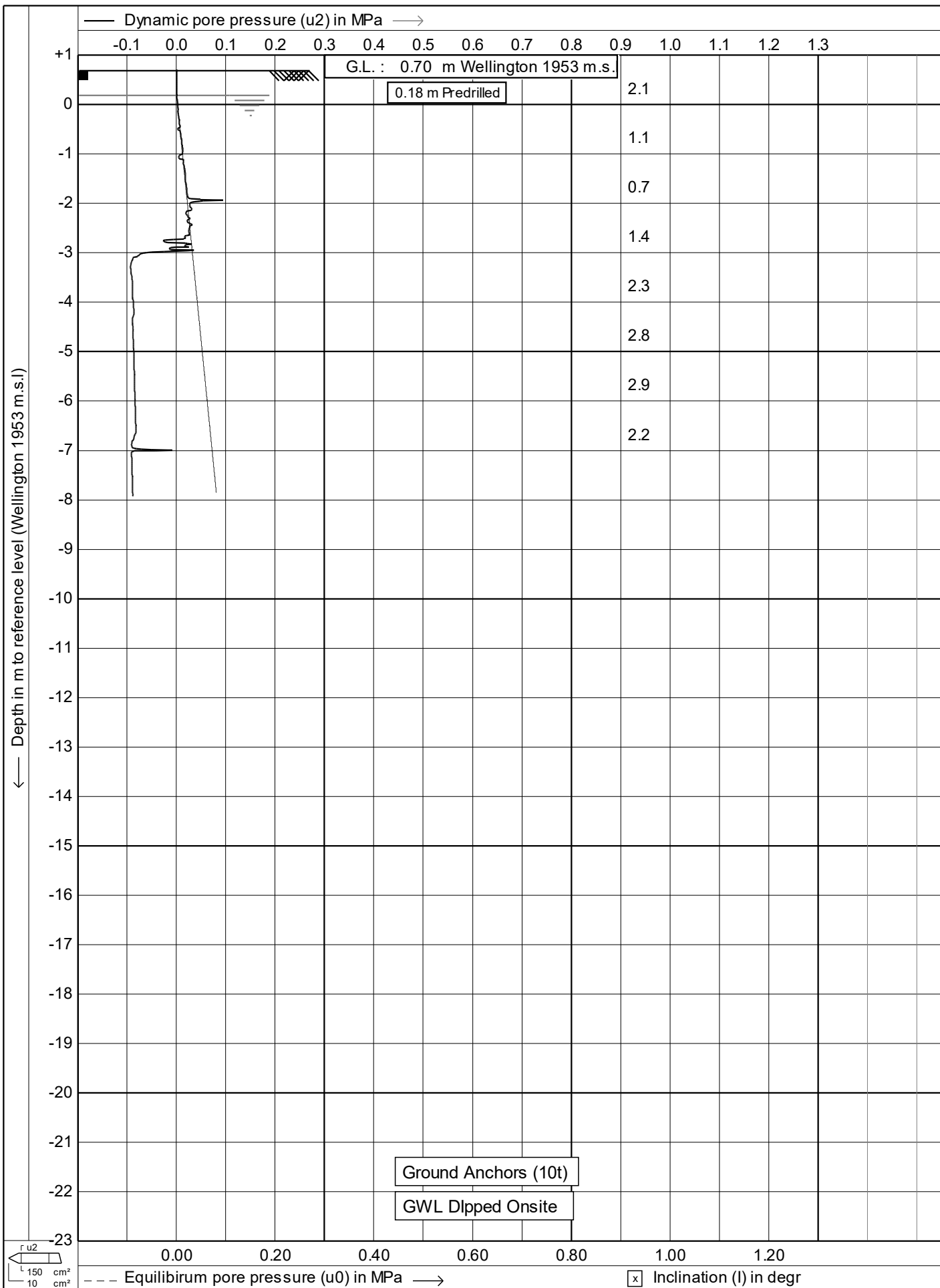
Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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← Depth in m to reference level (Wellington 1953 m.s.l)



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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← Depth in m to reference level (Wellington 1953 m.s.)

— Corrected cone resistance (qt) in MPa —→

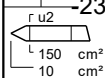
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

G.L. : 0.70 m Wellington 1953 m.s.

0.18 m Predrilled

Ground Anchors (10t)

GWL Dipped Onsite



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

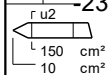
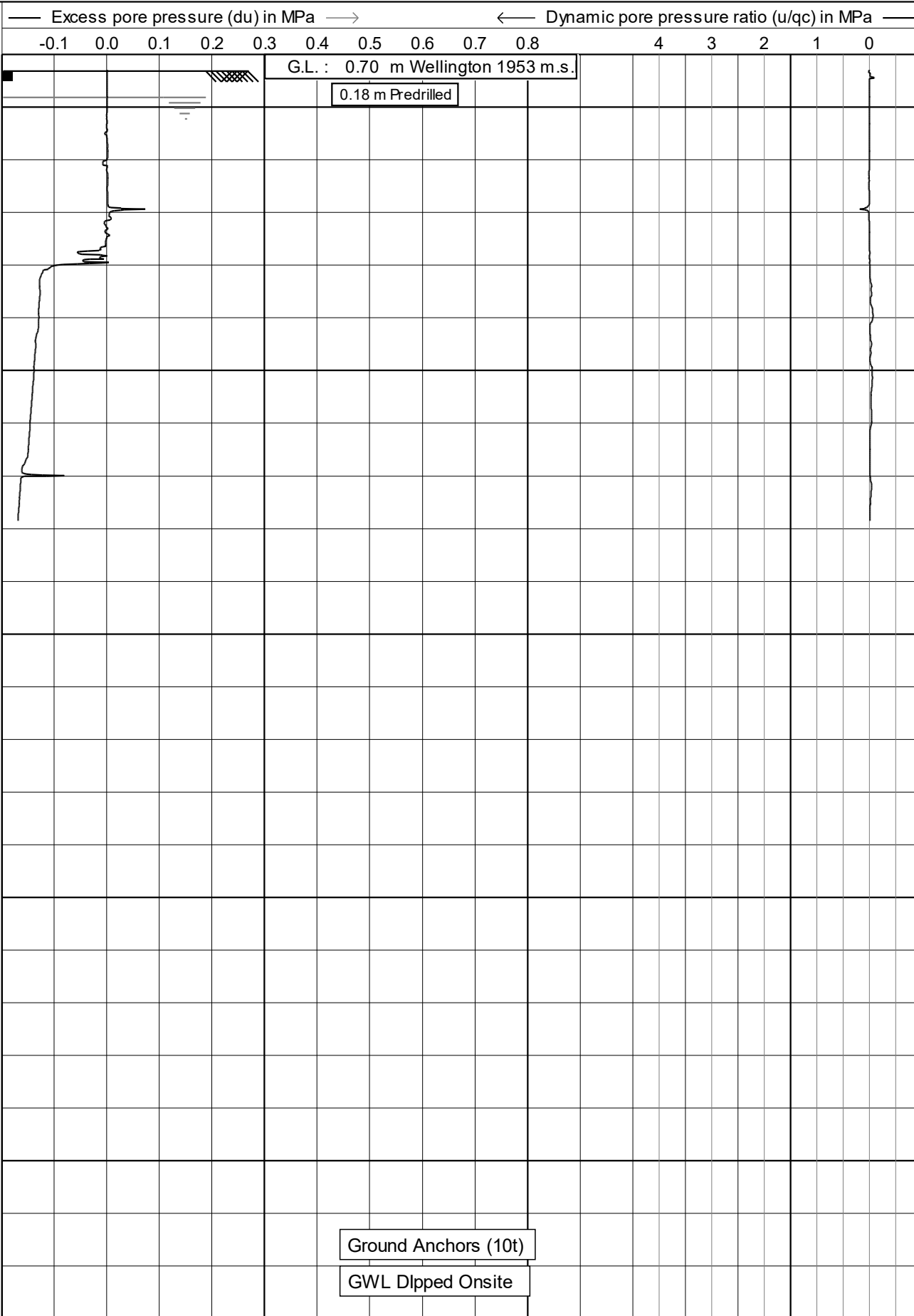
Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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← Depth in m to reference level (Wellington 1953 m.s.l)



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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← Depth in m to reference level (Wellington 1953 m.s.)

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

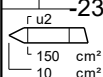
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

G.L. : 0.70 m Wellington 1953 m.s.

0.18 m Predrilled

Ground Anchors (10t)

GWL Dipped Onsite



Test according ASTM D5778-12

Project : Site Investigations

Location: Wellington Town Hall

Position: 1748840, 5427587 NZTM

Date : 20/03/2017

Cone no. : C10CFIP.C13082

Project no. : 04TT1

CPT no. : 303

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← Depth in m to reference level (Wellington 1953 m.s.l)

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

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

G.L. : 0.70 m Wellington 1953 m.s.l

0.18 m Predrilled

+1  
0  
-1  
-2  
-3  
-4  
-5  
-6  
-7  
-8  
-9  
-10  
-11  
-12  
-13  
-14  
-15  
-16  
-17  
-18  
-19  
-20  
-21  
-22  
-23

Ground Anchors (10t)

GWL Dipped Onsite



100 200 300 400 500 600 700  
--- Effective vertical stress (rov,z') in kPa ---→



Test according ASTM D5778-12

Project : Site Investigations

Location: Wellington Town Hall

Position: 1748840, 5427587 NZTM

Date : 20/03/2017

Cone no. : C10CFIP.C13082

Project no. : 04TT1

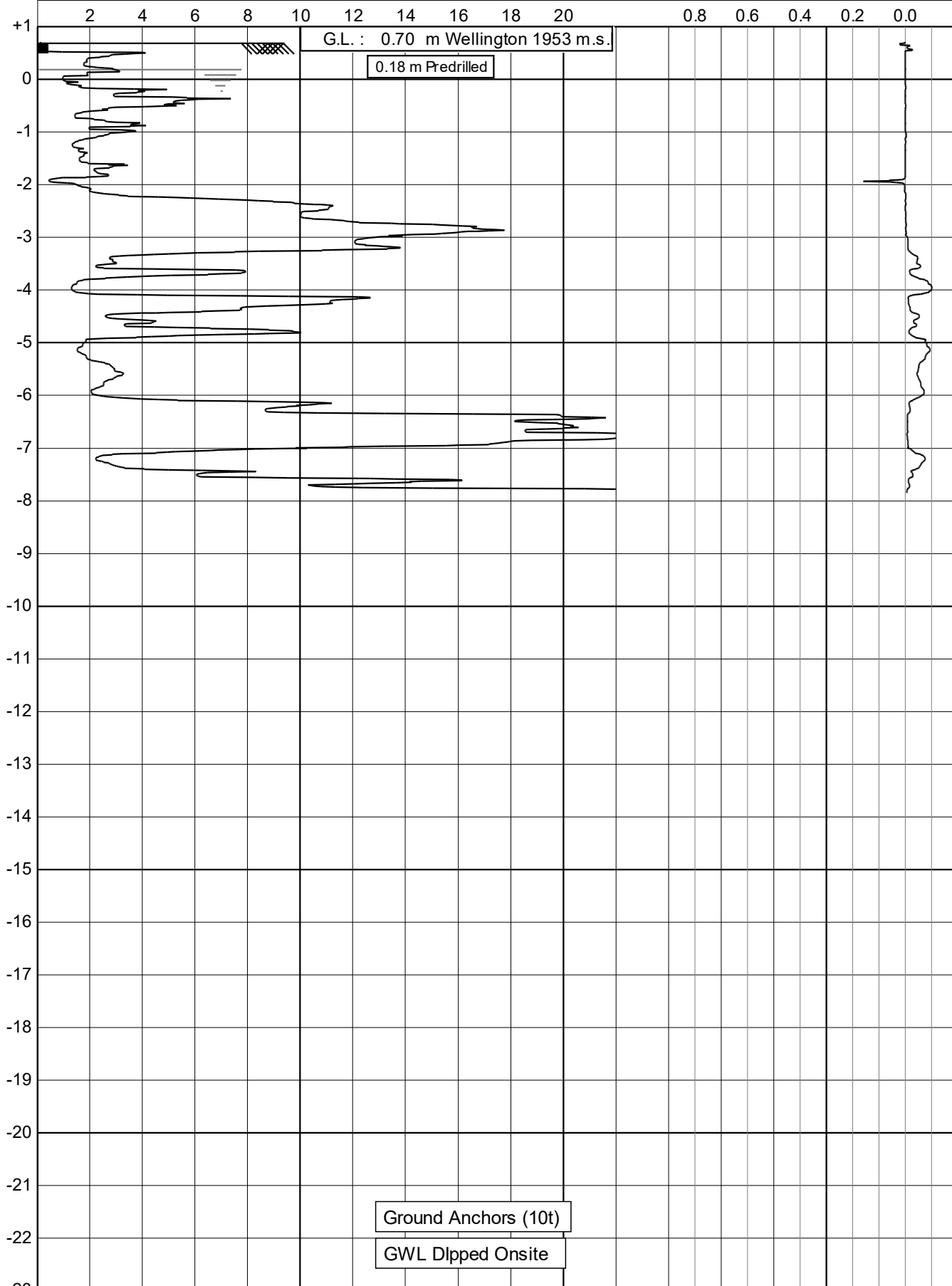
CPT no. : 303

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← Depth in m to reference level (Wellington 1953 m.s.)

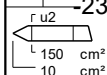
— Net cone resistance (qn) in MPa —→

← Pore pressure ratio (Bq) —



Ground Anchors (10t)

GWL Dipped Onsite



Test according ASTM D5778-12

Project : Site Investigations

Location: Wellington Town Hall

Position: 1748840, 5427587 NZTM

Date : 20/03/2017

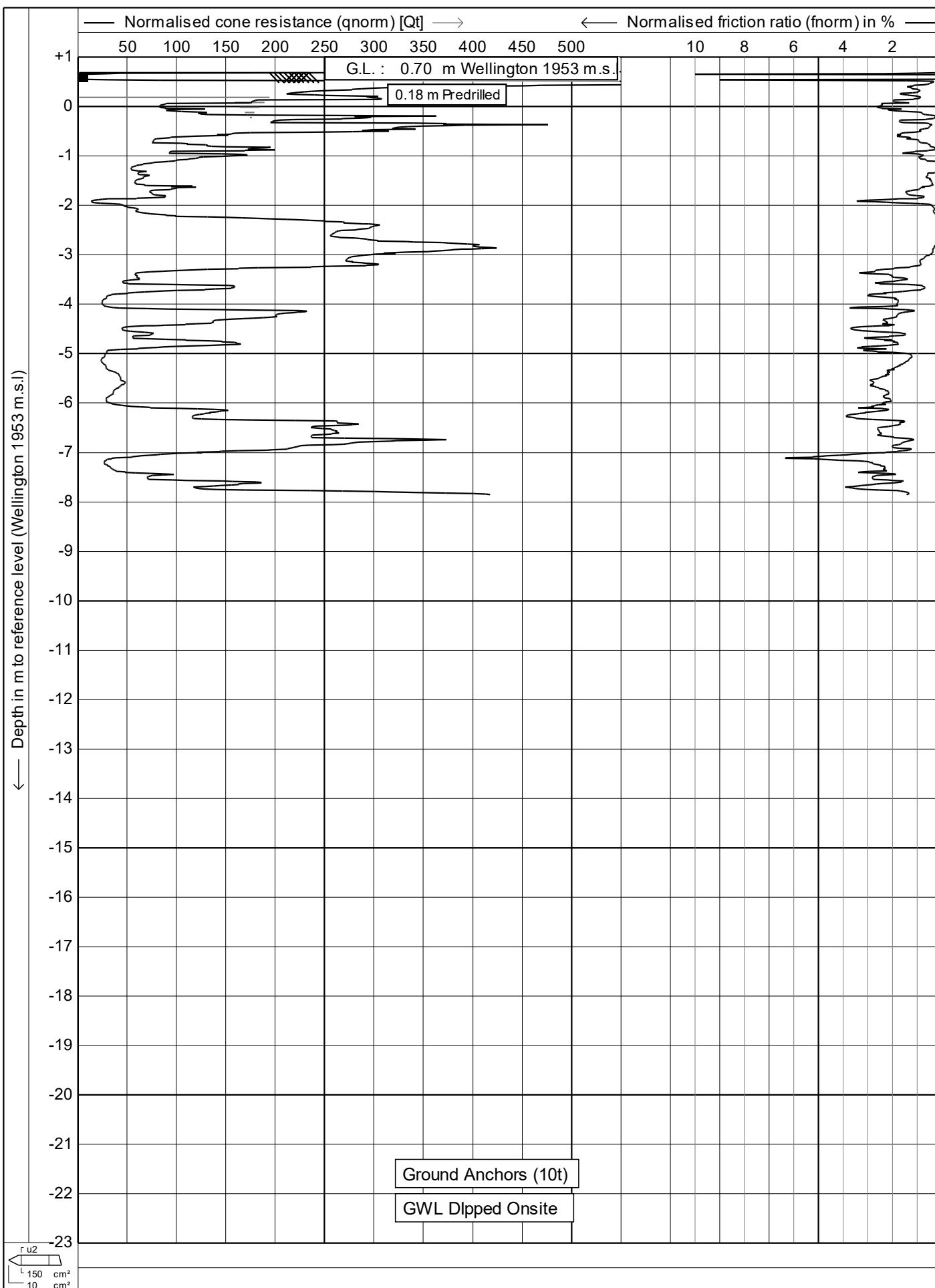
Cone no. : C10CFIP.C13082

Project no. : 04TT1

CPT no. : 303

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← Depth in m to reference level (Wellington 1953 m.s.l)



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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← Depth in m to reference level (Wellington 1953 m.s.)

— 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. : 0.70 m Wellington 1953 m.s.

0.18 m Predrilled

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

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

7

6

5

4

3

2



Test according ASTM D5778-12

Project : Site Investigations

Location: Wellington Town Hall

Position: 1748840, 5427587 NZTM

Date : 20/03/2017

Cone no. : C10CFIP.C13082

Project no. : 04TT1

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← Depth in m to reference level (Wellington 1953 m.s.l)

— Undrained shear strength (Su) in kPa —→

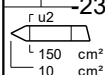
100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500

G.L. : 0.70 m Wellington 1953 m.s.l.

0.18 m Predrilled

Ground Anchors (10t)

GWL Dipped Onsite



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

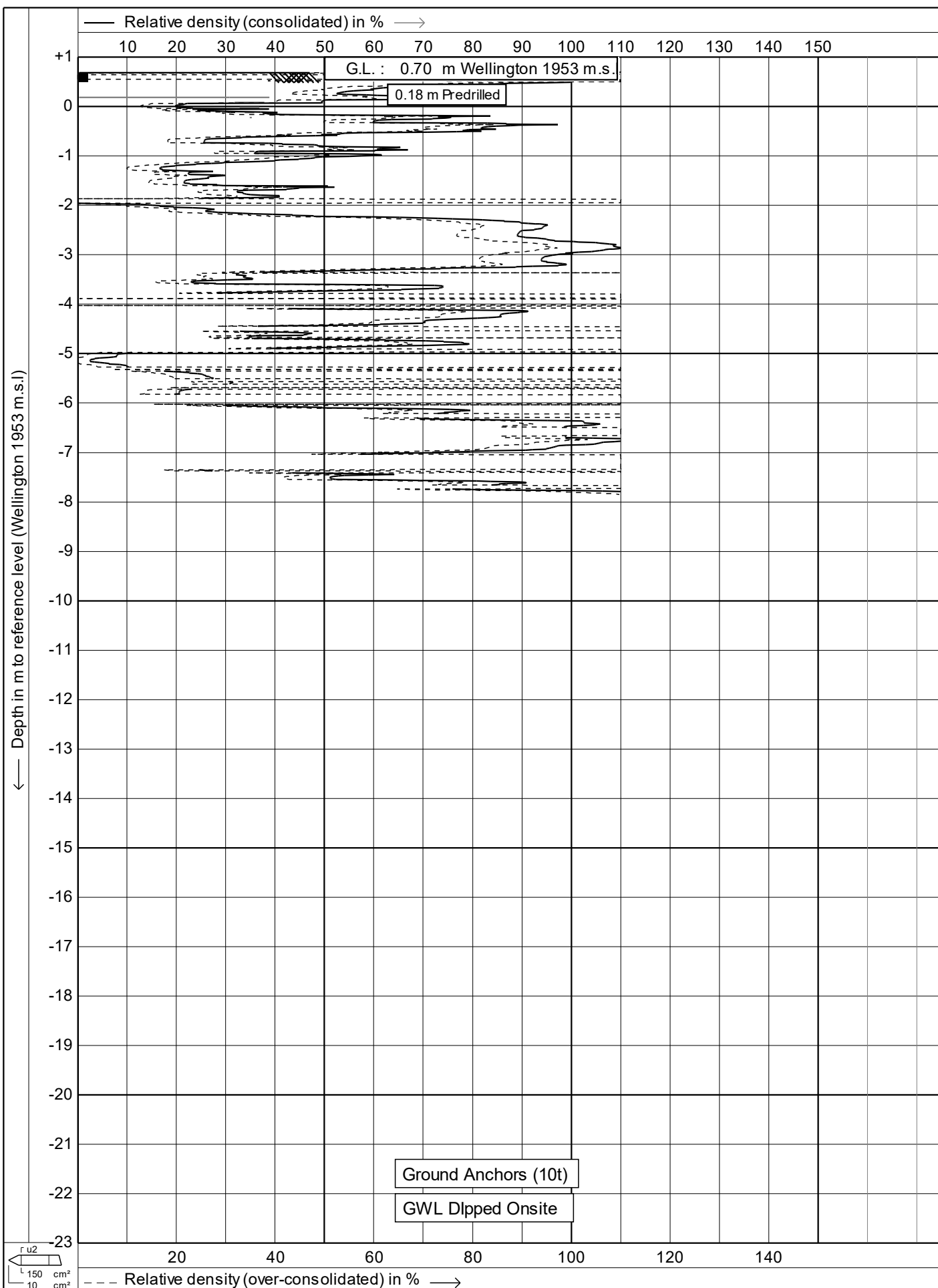
Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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← Depth in m to reference level (Wellington 1953 m.s.l)



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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← Depth in m to reference level (Wellington 1953 m.s.)

— Equivalent SPT N60 Value —→

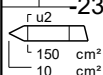
5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

G.L. : 0.70 m Wellington 1953 m.s.

0.18 m Predrilled

Ground Anchors (10t)

GWL Dipped Onsite



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

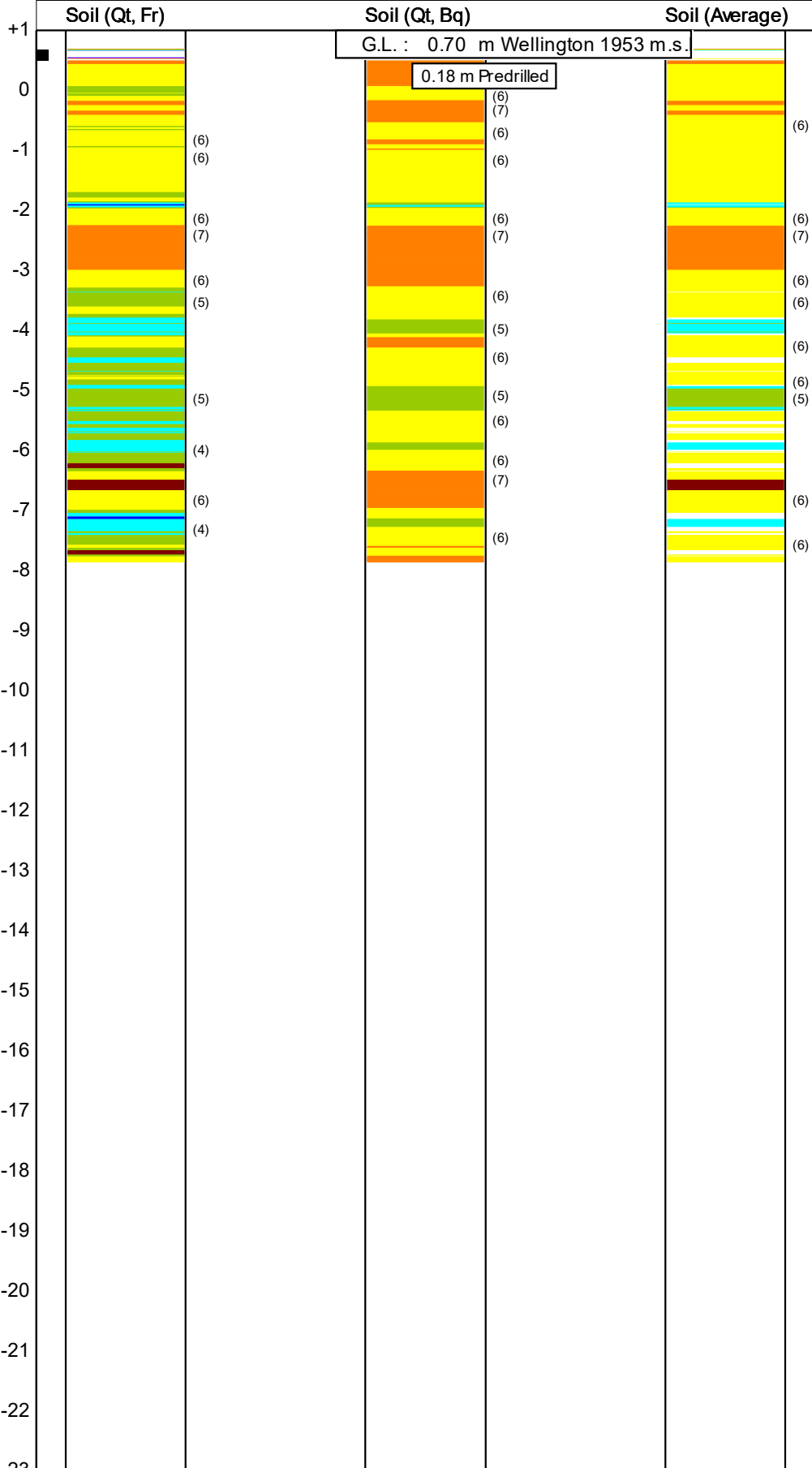
Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

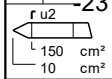
CPT no. : **303**

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Depth in m to reference level (Wellington 1953 m.s.l)  
↓



- (0) Not defined
- (1) Sensitive, fine grained
- (2) Organic soils-peats
- (3) Clays-clay to silty clay
- (4) Clayey silt to silty clay
- (5) Sand mixtures
- (6) Sands
- (7) Gravely sand to sand
- (8) Very stiff sand to clayey sand
- (9) Very stiff fine grained



Soil behaviour type classification after Robertson 1990



Project : <b>Site Investigations</b> Location: <b>Wellington Town Hall</b> Position: <b>1748840, 5427587 NZTM</b>	Test according ASTM D5778-12		Date : <b>20/03/2017</b>	
			Cone no. : <b>C10CFIIP.C13082</b>	
			Project no. : <b>04TT1</b>	
			CPT no. : <b>303</b>	<b>13/14</b>

← Depth in m to reference level (Wellington 1953 m.s.l)

— Internal friction angle in degrees —→

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

G.L. : 0.70 m Wellington 1953 m.s.l.

0.18 m Predrilled

Ground Anchors (10t)

GWL Dipped Onsite

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



Test according ASTM D5778-12

Project : **Site Investigations**

Location: **Wellington Town Hall**

Position: **1748840, 5427587 NZTM**

Date : **20/03/2017**

Cone no. : **C10CFIP.C13082**

Project no. : **04TT1**

CPT no. : **303**

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