

Odränerad analys, befintliga förhållanden, nulägesanalys

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File Information

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File Name: [31020WUS.gsz](#)
Directory: [V:_UPPDRAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 26\](#)
Last Solved Date: [2011-04-04](#)
Last Solved Time: [15:06:06](#)

Project Settings

Length(L) Units: [meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [kN](#)
Pressure(p) Units: [kPa](#)
Strength Units: [kPa](#)
Unit Weight of Water: [9.807 kN/m³](#)
View: [2D](#)

Analysis Settings

Odränerad analys, befintliga förhållanden, nulägesanalys

Description: [V31/020 odränerad analys Uppsprucken torrskorpa, 50% vattenfyllda sprickor](#)

Kind: [SLOPE/W](#)

Method: [Morgenstern-Price](#)

Settings

Side Function

Interslice force function option: [Half-Sine](#)

PWP Conditions Source: [Pressure Head Spatial Function](#)

Pressure Head Spatial Fn.: [Nulägesanalys](#)

Slip Surface

Direction of movement: [Right to Left](#)

Use Passive Mode: [No](#)

Slip Surface Option: [Entry and Exit](#)

Critical slip surfaces saved: [20](#)

Optimize Critical Slip Surface Location: [Yes](#)

Tension Crack

Tension Crack Option: [Tension Crack Line](#)

Percentage Wet: 0.5

Tension Crack Fluid Unit Weight: 9.807 kN/m³

FOS Distribution

FOS Calculation Option: Constant

Advanced

Number of Slices: 30

Optimization Tolerance: 0.01

Minimum Slip Surface Depth: 0.1 m

Optimization Maximum Iterations: 2000

Optimization Convergence Tolerance: 1e-007

Starting Optimization Points: 8

Ending Optimization Points: 16

Complete Passes per Insertion: 1

Driving Side Maximum Convex Angle: 5 °

Resisting Side Maximum Convex Angle: 1 °

Materials

Crust ud

Model: $S=f(\text{datum})$

Unit Weight: 18 kN/m³

C-Datum: 30 kPa

C-Rate of Change: 0 kPa/m

Limiting C: 0 kPa

Elevation: 0 m

Clay 1 ud

Model: $S=f(\text{datum})$

Unit Weight: 15.8 kN/m³

C-Datum: 18 kPa

C-Rate of Change: 0.33 kPa/m

Limiting C: 0 kPa

Elevation: 10 m

Clay 2 ud

Model: $S=f(\text{datum})$

Unit Weight: 15.8 kN/m³

C-Datum: 20 kPa

C-Rate of Change: 1.42 kPa/m

Limiting C: 0 kPa

Elevation: 4 m

Clay 3 ud

Model: $S=f(\text{datum})$

Unit Weight: 16 kN/m³

C-Datum: 27 kPa

C-Rate of Change: 1.11 kPa/m

Limiting C: 0 kPa

Elevation: -1 m

Friction

Model: Mohr-Coulomb
Unit Weight: 20 kN/m³
Unit Wt. Above Water Table: 20 kN/m³
Cohesion: 0 kPa
Phi: 38 °
Phi-B: 0 °

Clay 4 ud älv

Model: $S=f(\text{depth})$
Unit Weight: 15.8 kN/m³
C-Top of Layer: 5 kPa
C-Rate of Change: 9.6 kPa/m
Limiting C: 0 kPa

Clay 5 ud älv

Model: $S=f(\text{datum})$
Unit Weight: 16 kN/m³
C-Datum: 27 kPa
C-Rate of Change: 1.11 kPa/m
Limiting C: 0 kPa
Elevation: -1 m

Clay 6 ud älv

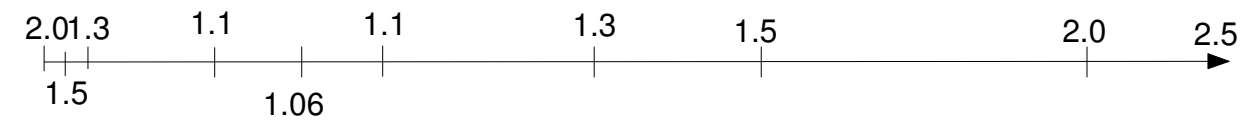
Model: $S=f(\text{depth})$
Unit Weight: 15.8 kN/m³
C-Top of Layer: 5 kPa
C-Rate of Change: 14.3 kPa/m
Limiting C: 0 kPa



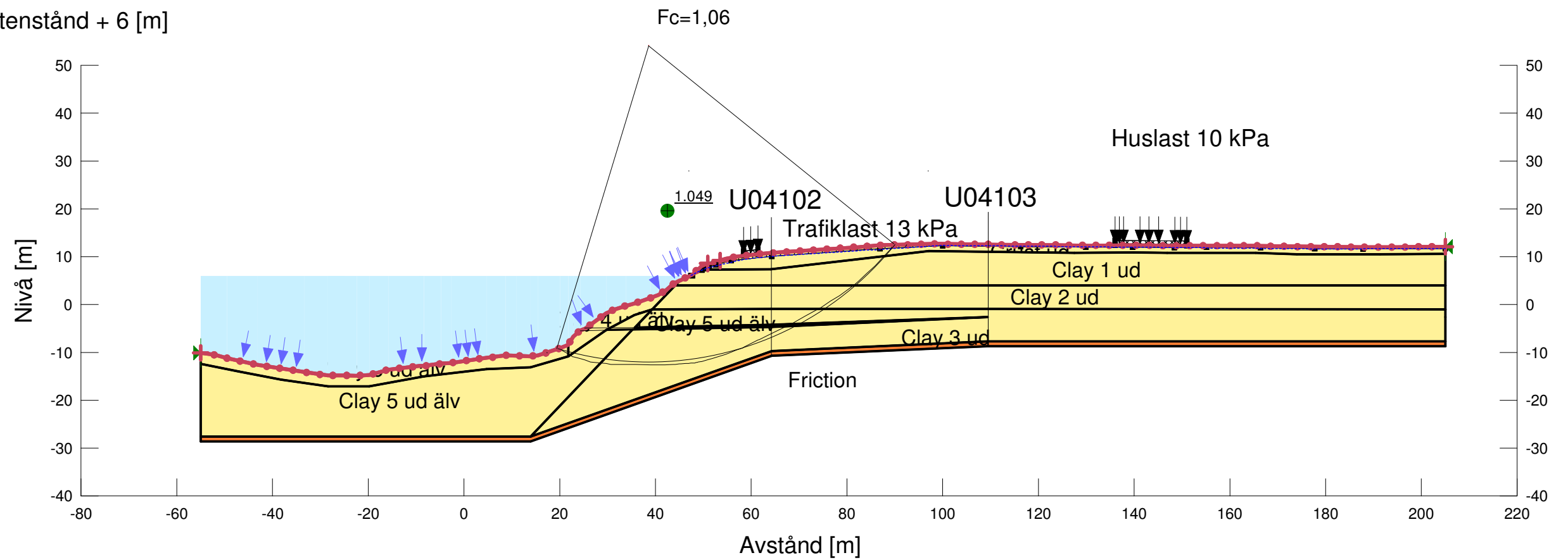
Skala 1:1000 (A3)

Leveransdatum 2011-03-31

Göta älv utredningen 2009-2012
 SEKTION: V31/020 odränerad analys
 Uppsprucken torrskorpa, 50% vattenfyllda sprickor
 Beräkningsmodell: Morgenstern-Price
 Metod: Entry and Exit
 Portrycksmodell: Pressure Head Spatial Function
 Datum: 2011-04-05



Nivå för yttre vattenstånd + 6 [m]



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