Odränerad analys, befintliga förhållanden, Nulägesanalys

File Information

Created By: Birgitta Kärrlind
Revision Number: 261
Last Edited By: Kärrlind, Birgitta
Date: 2011-04-01
Time: 15:53:56
File Name: 44900WUS.gsz
Directory: V:_UPPDRAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 3\

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: V44/900 kombinerad analys Hydrodynamiskt portryck
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: Grid and Radius
- Critical slip surfaces saved: 20
- Optimize Critical Slip Surface Location: Yes
- Tension Crack
  - Tension Crack Option: (none)

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(depth)
- Unit Weight: 18 kN/m³
- C-Top of Layer: 30 kPa
- C-Rate of Change: 0 kPa/m
- Limiting C: 0 kPa

Clay 1 ud
- Model: S=f(datum)
- Unit Weight: 16.3 kN/m³
- C-Datum: 11 kPa
- C-Rate of Change: 0 kPa/m
- Limiting C: 0 kPa
- Elevation: 2 m

Clay 2 ud
- Model: S=f(datum)
- Unit Weight: 16 kN/m³
- C-Datum: 14 kPa
- C-Rate of Change: 0.76 kPa/m
- Limiting C: 0 kPa
- Elevation: -3 m

Clay 3 ud
- Model: S=f(datum)
- Unit Weight: 16 kN/m³
- C-Datum: 27 kPa
- C-Rate of Change: 0.65 kPa/m
- Limiting C: 0 kPa
- Elevation: -20 m

Clay 4 ud
- Model: S=f(datum)
- Unit Weight: 16 kN/m³
- C-Datum: 11 kPa
- C-Rate of Change: 0 kPa/m

Limiting C: 0 kPa
Elevation: 0 m

Clay 5 ud

Model: S=f(datum)
Unit Weight: 16 kN/m³
C-Datum: 14 kPa
C-Rate of Change: 0.76 kPa/m
Limiting C: 0 kPa
Elevation: -3 m

Clay 6 ud

Model: S=f(datum)
Unit Weight: 16.5 kN/m³
C-Datum: 15.5 kPa
C-Rate of Change: 0.76 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Clay 7 ud

Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 7 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa

Clay 8 ud

Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 7 kPa
C-Rate of Change: 0.75 kPa/m
Limiting C: 0 kPa

Friction

Model: Mohr-Coulomb
Unit Weight: 20 kN/m³
Unit Wt. Above Water Table: 22 kN/m³
Cohesion: 0 kPa
Phi: 40 °
Phi-B: 0 °

Vägbank

Model: Mohr-Coulomb
Unit Weight: 21 kN/m³
Unit Wt. Above Water Table: 18 kN/m³
Cohesion: 0 kPa
Phi: 40 °
Phi-B: 0 °

Clay 9 ud (älv)

Model: S=f(depth)
Unit Weight: 16 kN/m³

C-Top of Layer: 3 kPa
C-Rate of Change: 2.97 kPa/m
Limiting C: 0 kPa

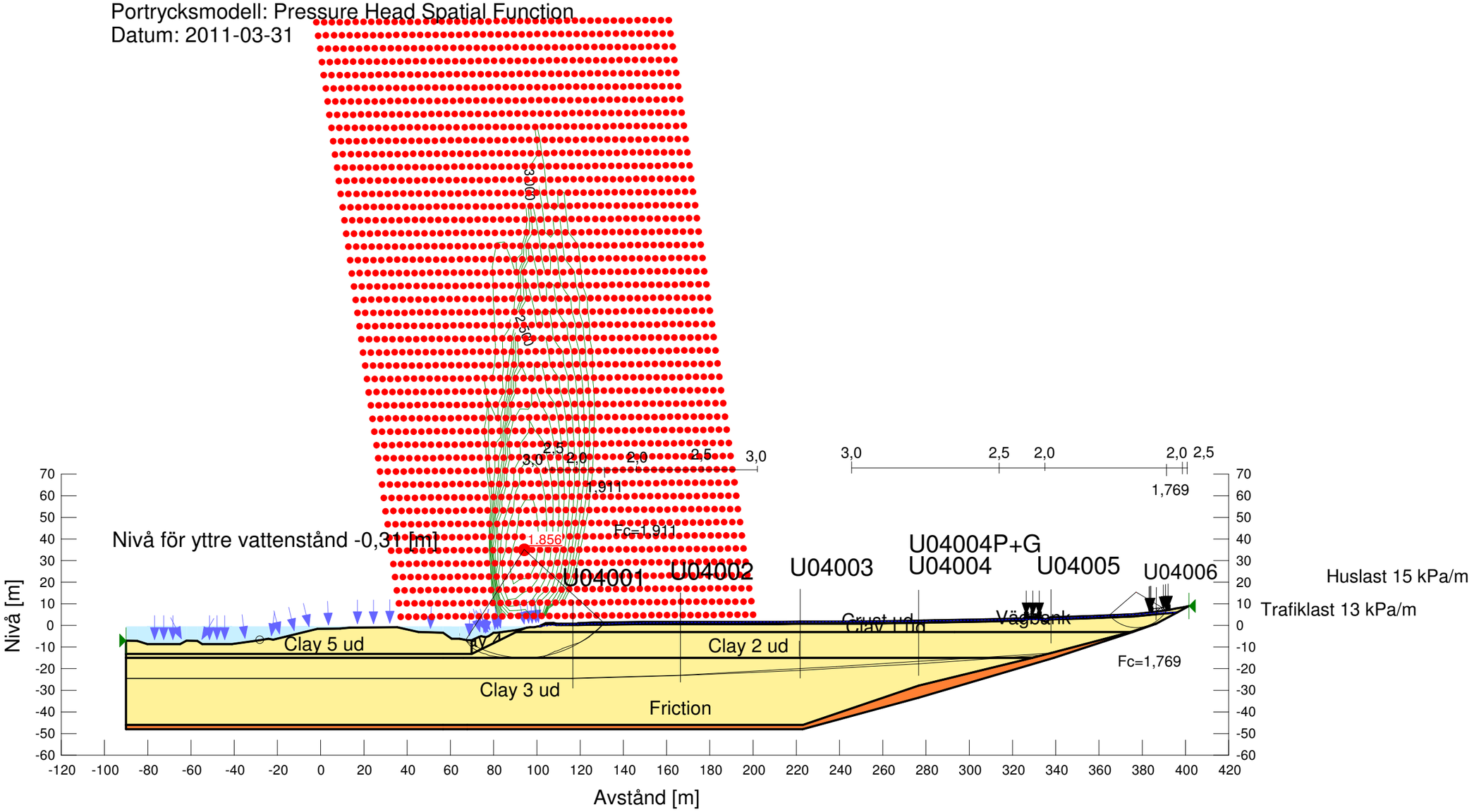
Clay 10 ud (älv)

Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 3 kPa
C-Rate of Change: 3.91 kPa/m
Limiting C: 0 kPa

Skala 1:2000 (A3)

Leveransdatum 2011-03-31

Göta älv utredningen 2009-2012
SEKTION: V46/900 delomr 4, odränerad analys
Uppsprucken torrskorpa
Artesiskt portryck
Beräkningsmodell: Morgenstern-Price
Metod: Grid and Radius
Portrycksmodell: Pressure Head Spatial Function
Datum: 2011-03-31



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