

# Kombinerad analys, befintliga förhållanden

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## File Information

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Directory: [V:\\\_UPPDRAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 22\](#)  
Last Solved Date: [2010-12-21](#)  
Last Solved Time: [17:26:26](#)

## 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/m<sup>3</sup>](#)  
View: [2D](#)

## Analysis Settings

### Kombinerad analys, befintliga förhållanden, nulägesanalys

Description: [V32/760 kombinerad analys](#)  
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: [\(none\)](#)

## FOS Distribution

FOS Calculation Option: **Constant**

## Advanced

Number of Slices: **30**Optimization Tolerance: **0.01**Minimum Slip Surface Depth: **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 co

Model: **Combined, S=f(depth)**Unit Weight: **18 kN/m<sup>3</sup>**Phi: **30 °**C-Top of Layer: **0 kPa**C-Rate of Change: **0 kPa/m**Cu-Top of Layer: **30 kPa**Cu-Rate of Change: **0 kPa/m**C/Cu Ratio: **0.1**

### Strandskoning

Model: **Mohr-Coulomb**Unit Weight: **21 kN/m<sup>3</sup>**Unit Wt. Above Water Table: **18 kN/m<sup>3</sup>**Cohesion: **0 kPa**Phi: **40 °**Phi-B: **0 °**

### Clay 1 co

Model: **Combined, S=f(datum)**Unit Weight: **16.4 kN/m<sup>3</sup>**Phi: **30 °**C-Datum: **0 kPa**C-Rate of Change: **0 kPa/m**Cu-Datum: **22 kPa**Cu-Rate of Change: **0 kPa/m**C/Cu Ratio: **0.1**Elevation: **11 m**

### Clay 2 co

Model: **Combined, S=f(datum)**Unit Weight: **16.2 kN/m<sup>3</sup>**Phi: **30 °**C-Datum: **0 kPa**

C-Rate of Change: 0 kPa/m  
Cu-Datum: 22 kPa  
Cu-Rate of Change: 0 kPa/m  
C/Cu Ratio: 0.1  
Elevation: 2 m

### Clay 3 co

Model: Combined,  $S=f(\text{datum})$   
Unit Weight: 16.2 kN/m<sup>3</sup>  
Phi: 30 °  
C-Datum: 0 kPa  
C-Rate of Change: 0 kPa/m  
Cu-Datum: 22 kPa  
Cu-Rate of Change: 1.4 kPa/m  
C/Cu Ratio: 0.1  
Elevation: 0 m

### Clay 4 co

Model: Combined,  $S=f(\text{datum})$   
Unit Weight: 16.8 kN/m<sup>3</sup>  
Phi: 30 °  
C-Datum: 0 kPa  
C-Rate of Change: 0 kPa/m  
Cu-Datum: 22 kPa  
Cu-Rate of Change: 1.4 kPa/m  
C/Cu Ratio: 0.1  
Elevation: 0 m

### Clay 5 co

Model: Combined,  $S=f(\text{datum})$   
Unit Weight: 15 kN/m<sup>3</sup>  
Phi: 30 °  
C-Datum: 0 kPa  
C-Rate of Change: 0 kPa/m  
Cu-Datum: 14 kPa  
Cu-Rate of Change: 0 kPa/m  
C/Cu Ratio: 0.1  
Elevation: 15 m

### Clay 6 co

Model: Combined,  $S=f(\text{datum})$   
Unit Weight: 15 kN/m<sup>3</sup>  
Phi: 30 °  
C-Datum: 0 kPa  
C-Rate of Change: 0 kPa/m  
Cu-Datum: 14 kPa  
Cu-Rate of Change: 1.6 kPa/m  
C/Cu Ratio: 0.1  
Elevation: 5 m

### Clay 7 co

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

Unit Weight: 15 kN/m<sup>3</sup>  
Phi: 30 °  
C-Datum: 0 kPa  
C-Rate of Change: 0 kPa/m  
Cu-Datum: 14 kPa  
Cu-Rate of Change: 0 kPa/m  
C/Cu Ratio: 0.1  
Elevation: 20 m

### Clay 8 co

Model: Combined, S=f(datum)  
Unit Weight: 15.8 kN/m<sup>3</sup>  
Phi: 30 °  
C-Datum: 0 kPa  
C-Rate of Change: 0 kPa/m  
Cu-Datum: 14 kPa  
Cu-Rate of Change: 1.5 kPa/m  
C/Cu Ratio: 0.1  
Elevation: 12 m

### Friction

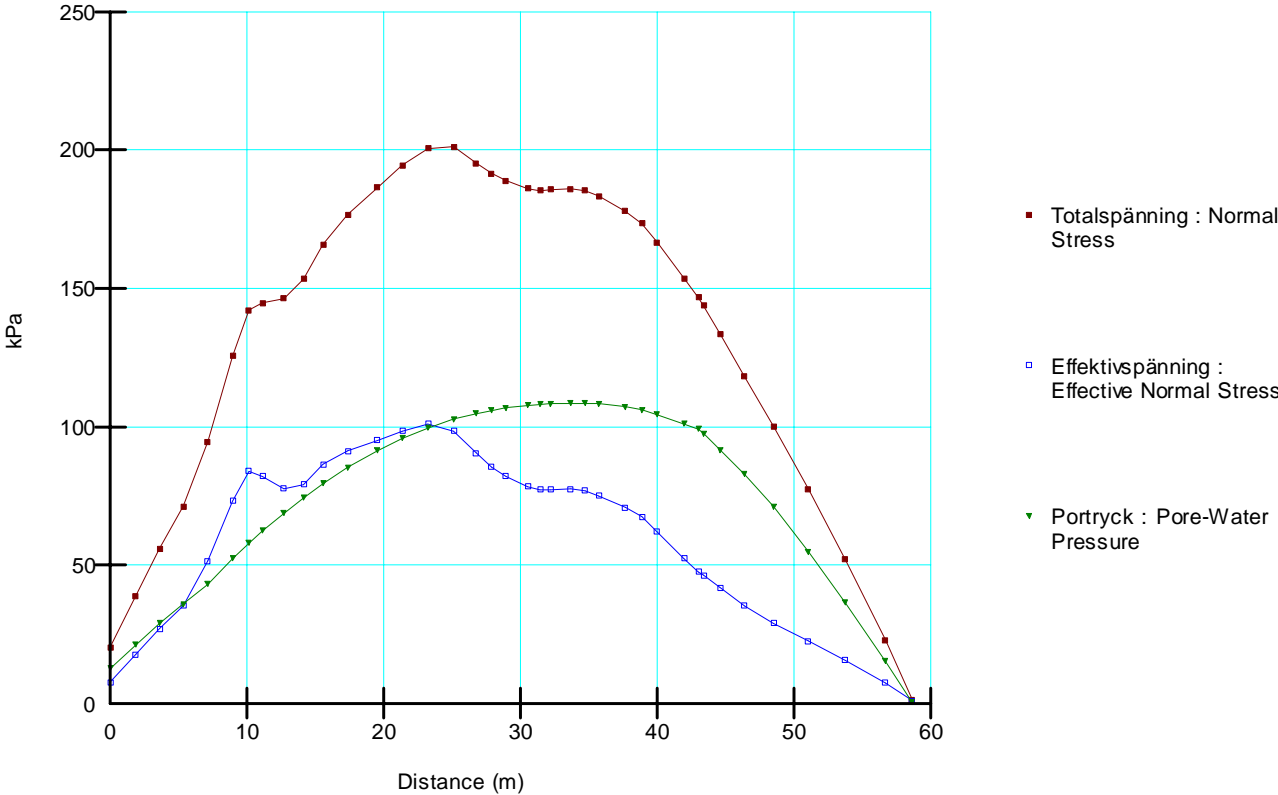
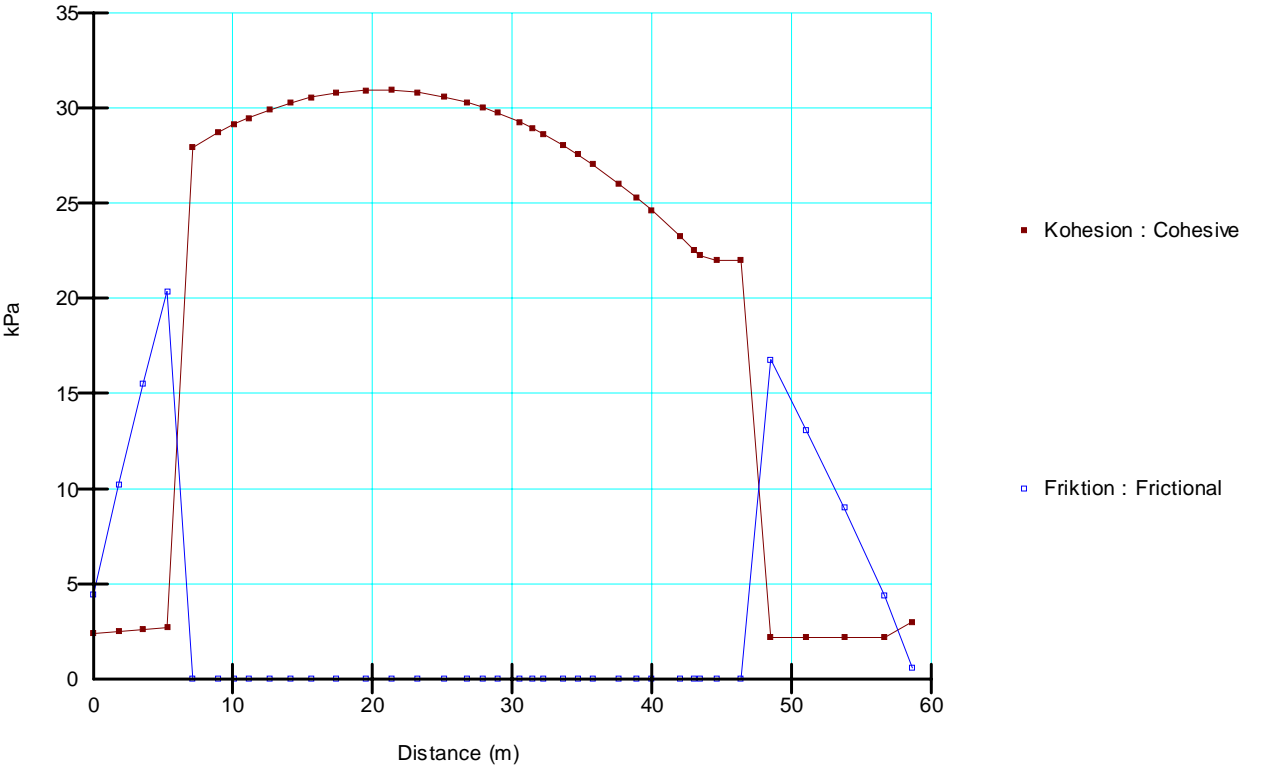
Model: Mohr-Coulomb  
Unit Weight: 22 kN/m<sup>3</sup>  
Unit Wt. Above Water Table: 20 kN/m<sup>3</sup>  
Cohesion: 0 kPa  
Phi: 38 °  
Phi-B: 0 °

### Bedrock

Model: Bedrock (Impenetrable)

### Clay 9 älv co

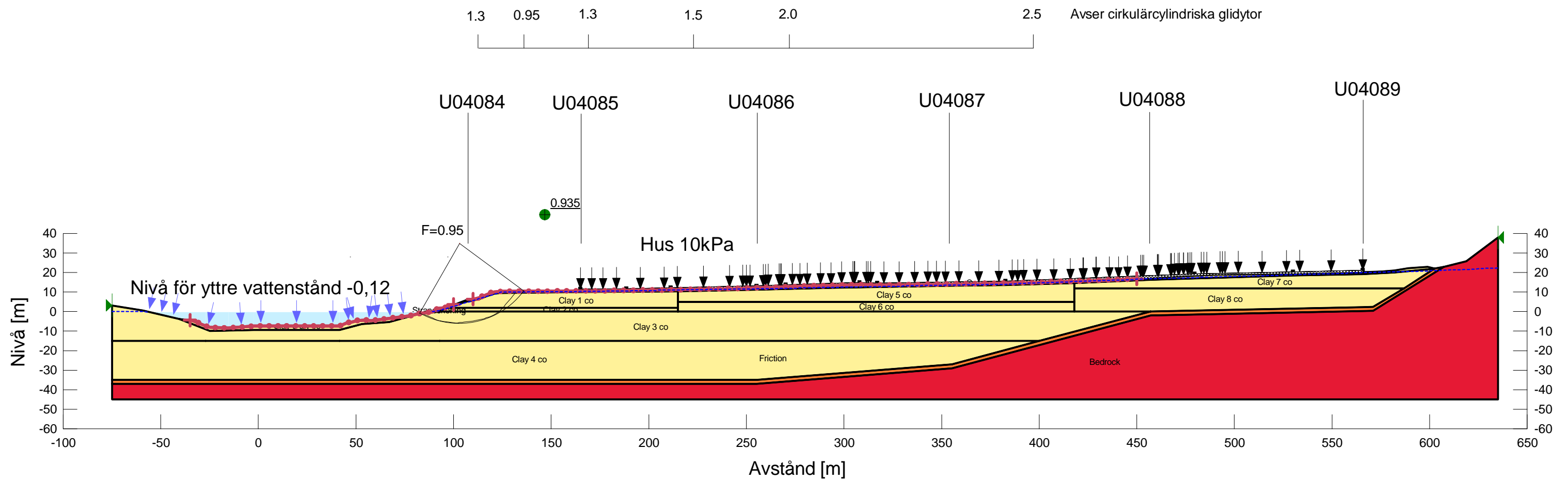
Model: Combined, S=f(depth)  
Unit Weight: 16 kN/m<sup>3</sup>  
Phi: 30 °  
C-Top of Layer: 0 kPa  
C-Rate of Change: 0 kPa/m  
Cu-Top of Layer: 5 kPa  
Cu-Rate of Change: 15 kPa/m  
C/Cu Ratio: 0.1





Skala 1:2000 (A3)  
Leveransdatum 2011-03-31

Göta älv utredningen 2009-2012  
SEKTION: V32/760 kombinerad analys  
Beräkningsmodell: Morgenstern-Price  
Metod: Entry and Exit  
Portrycksmodell: Pressure Head Spatial Function  
Datum: 2011-01-14





Skala 1:2000 (A3)  
Leveransdatum 2011-03-31

Göta älv utredningen 2009-2012  
SEKTION: V32/760 kombinerad analys  
Beräkningsmodell: Morgenstern-Price  
Metod: Entry and Exit  
Portrycksmodell: Pressure Head Spatial Function  
Datum: 2010-12-22

