SLOPE/W Analysis

File Information

Created By: Kine Meijer
Revision Number: 68
Last Edited By: Kine Meijer
Date: 2011-07-11
Time: 05:00:23
File Name: V16830_odränerad_EEprint.gsz
Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16830\Beräkningar\110816\
Last Solved Date: 2011-07-11
Last Solved Time: 05:01:26

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/m³
View: 2D

Analysis Settings

SLOPE/W Analysis

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.: New Pressure Head Function

SlipSurface
- Direction of movement: Right to Left
- Use Passive Mode: No
- Slip Surface Option: Entry and Exit
- Critical slip surfaces saved: 5
- 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

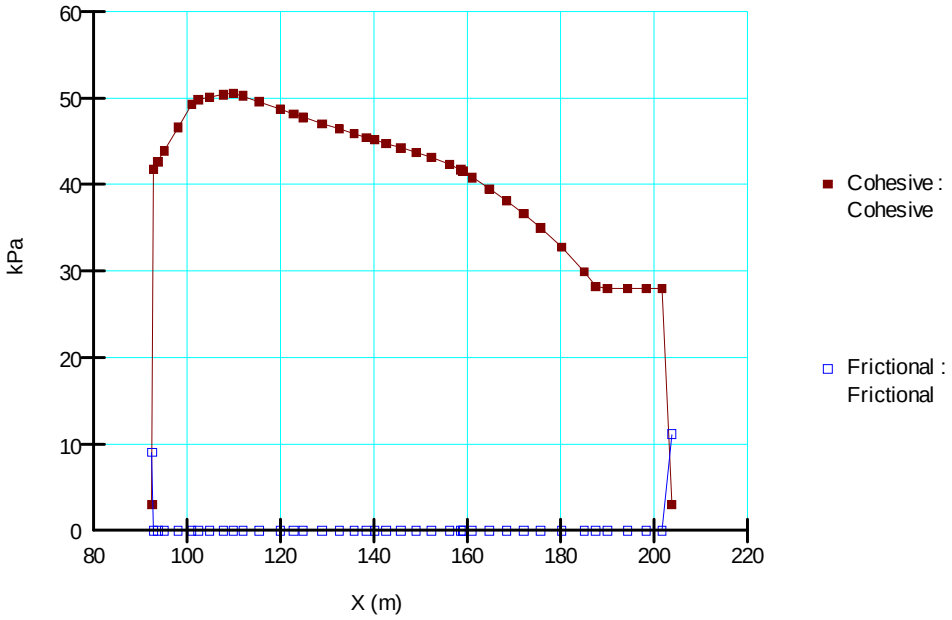
Cl 1
- Model: S=f(datum)
- Unit Weight: 17 kN/m³
- C-Datum: 28 kPa
- C-Rate of Change: 0 kPa/m
- Limiting C: 28 kPa
- Elevation: 25 m

Cl 2
- Model: S=f(datum)
- Unit Weight: 17 kN/m³
- C-Datum: 28 kPa
- C-Rate of Change: 1.56 kPa/m
- Limiting C: 0 kPa
- Elevation: 15 m

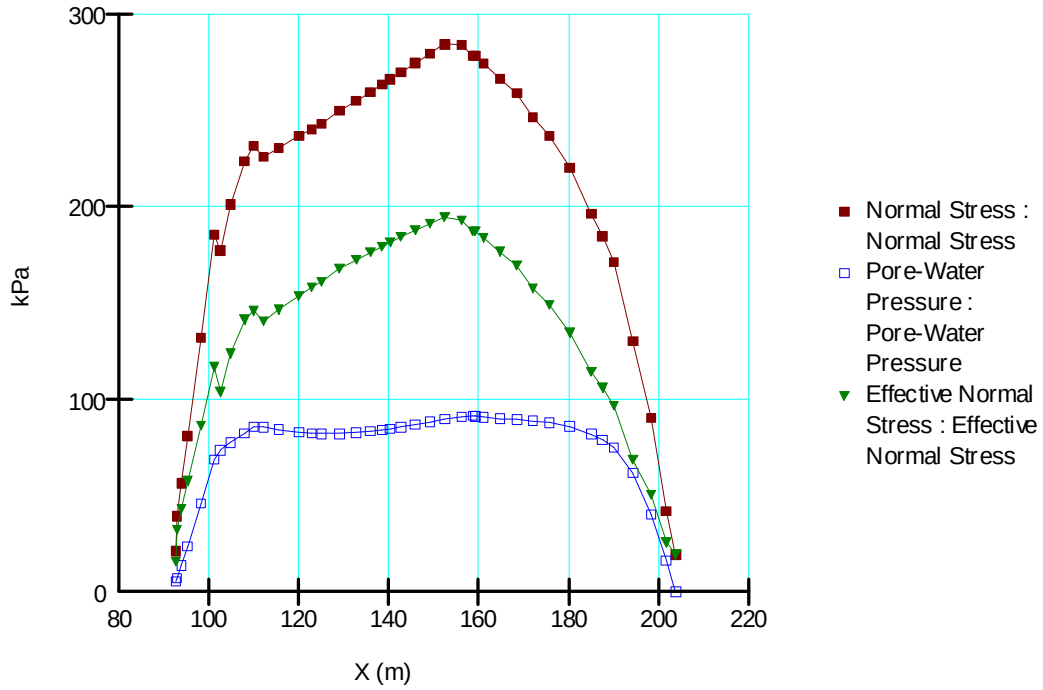
Crust
- Model: Mohr-Coulomb
- Unit Weight: 18 kN/m³
- Cohesion: 3 kPa
- Phi: 30 °
- Phi-B: 0 °

Cl 5
- Model: S=f(depth)
- Unit Weight: 16.4 kN/m³
- C-Top of Layer: 3 kPa
- C-Rate of Change: 22 kPa/m
- Limiting C: 25 kPa

Cl 6
- Model: S=f(depth)
- Unit Weight: 16.4 kN/m³
- C-Top of Layer: 25 kPa
- C-Rate of Change: 2.63 kPa/m
- Limiting C: 0 kPa



Figur 1. Kohesion och friktion.

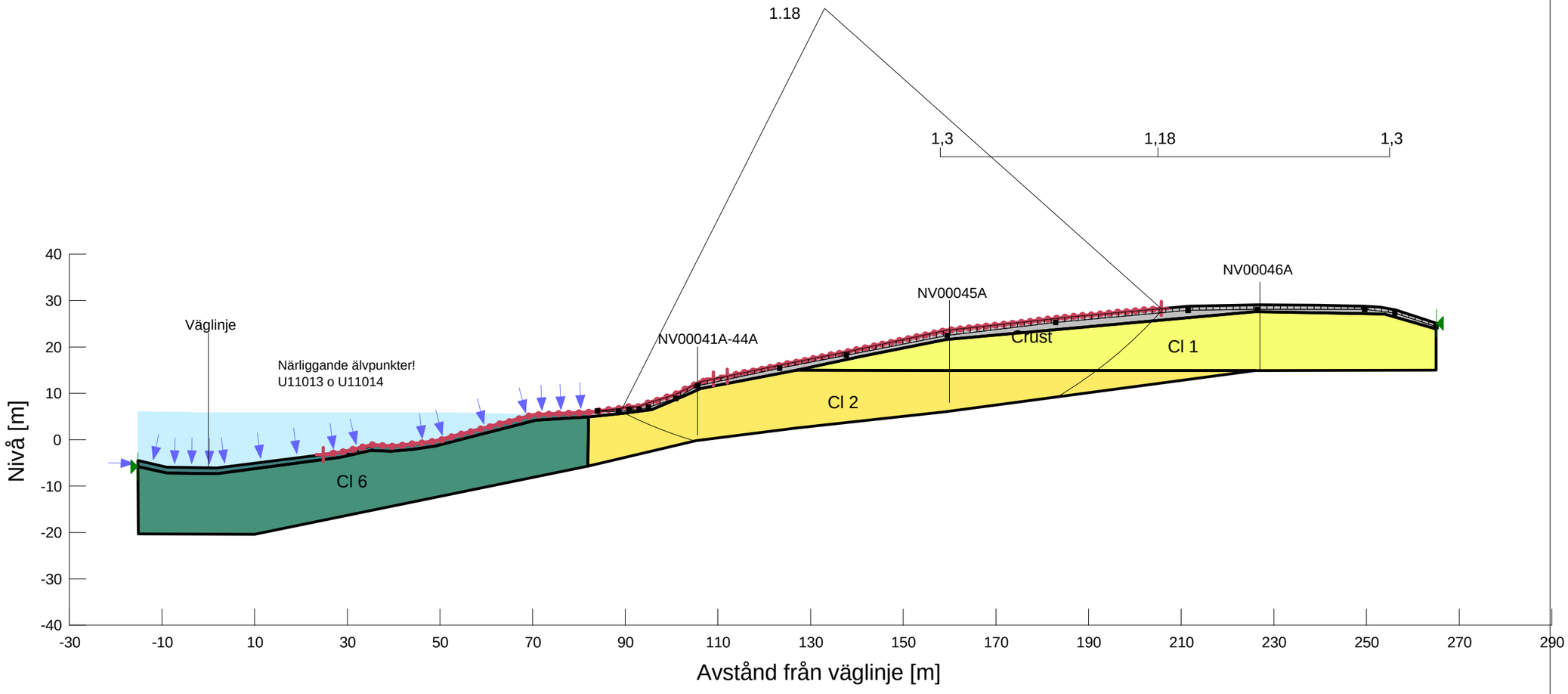


Figur 2. Totalspänning, effektivspänning och portryck.

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: V16830
Delområde: Intagan - Ström
Analysmetod:Odränerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-08-16
Created By: Kine Meijer
Last Edited By: Kine Meijer



Skala 1:1000 (A3)

Name: Cl 1
Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 28 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 28 kPa

Name: Cl 2
Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 28 kPa
C-Rate of Change: 1.56 kPa/m
Limiting C: 0 kPa

Name: Crust
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 3 kPa
Phi: 30 °

Name: Cl 5
Model: S=f(depth)
Unit Weight: 16.4 kN/m³
C-Top of Layer: 3 kPa
C-Rate of Change: 22 kPa/m
Limiting C: 25 kPa

Name: Cl 6
Model: S=f(depth)
Unit Weight: 16.4 kN/m³
C-Top of Layer: 25 kPa
C-Rate of Change: 2.63 kPa/m
Limiting C: 0 kPa

Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16830\Beräkningar\110816\
File Name: V16830_odränerad_EEprint.gsz

SLOPE/W Analysis

File Information

Created By: Kine Meijer
Revision Number: 57
Last Edited By: Kine Meijer
Date: 2011-07-11
Time: 03:31:05
File Name: V16830_kombinerad_EE print.gsz
Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16830\Beräkningar\110816\
Last Solved Date: 2011-07-11
Last Solved Time: 03:34:16

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

SLOPE/W Analysis

Kind: SLOPE/W
Method: Morgenstern-Price
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- Side Function
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- 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

Cl 1
- Model: Combined, S=f(datum)
- Unit Weight: 17 kN/m³
- Phi: 30 °
- C-Datum: 0 kPa
- C-Rate of Change: 0 kPa/m
- Cu-Datum: 28 kPa
- Cu-Rate of Change: 0 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 25 m

Cl 2
- Model: Combined, S=f(datum)
- Unit Weight: 17 kN/m³
- Phi: 30 °
- C-Datum: 0 kPa
- C-Rate of Change: 0 kPa/m
- Cu-Datum: 28 kPa
- Cu-Rate of Change: 1.56 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 15 m

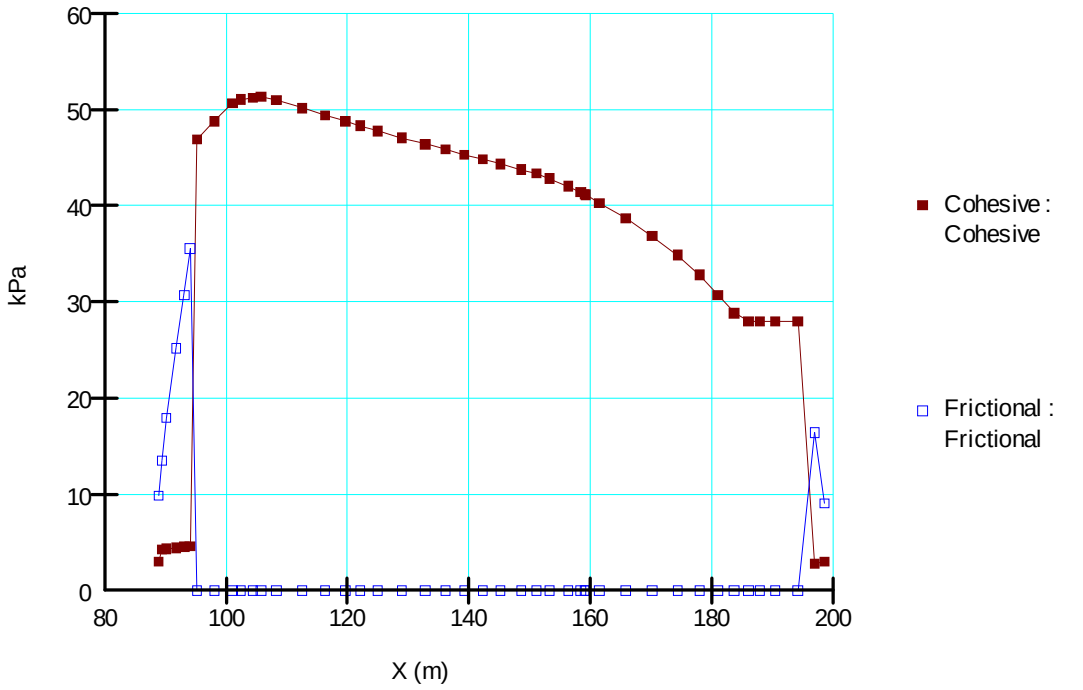
Crust
- Model: Mohr-Coulomb
- Unit Weight: 18 kN/m³
- Cohesion: 3 kPa
- Phi: 30 °
- Phi-B: 0 °

Cl 5
- Model: Combined, S=f(depth)
- Unit Weight: 16.4 kN/m³
- Phi: 30 °
- C-Top of Layer: 0 kPa
- C-Rate of Change: 0 kPa/m
- Cu-Top of Layer: 3 kPa

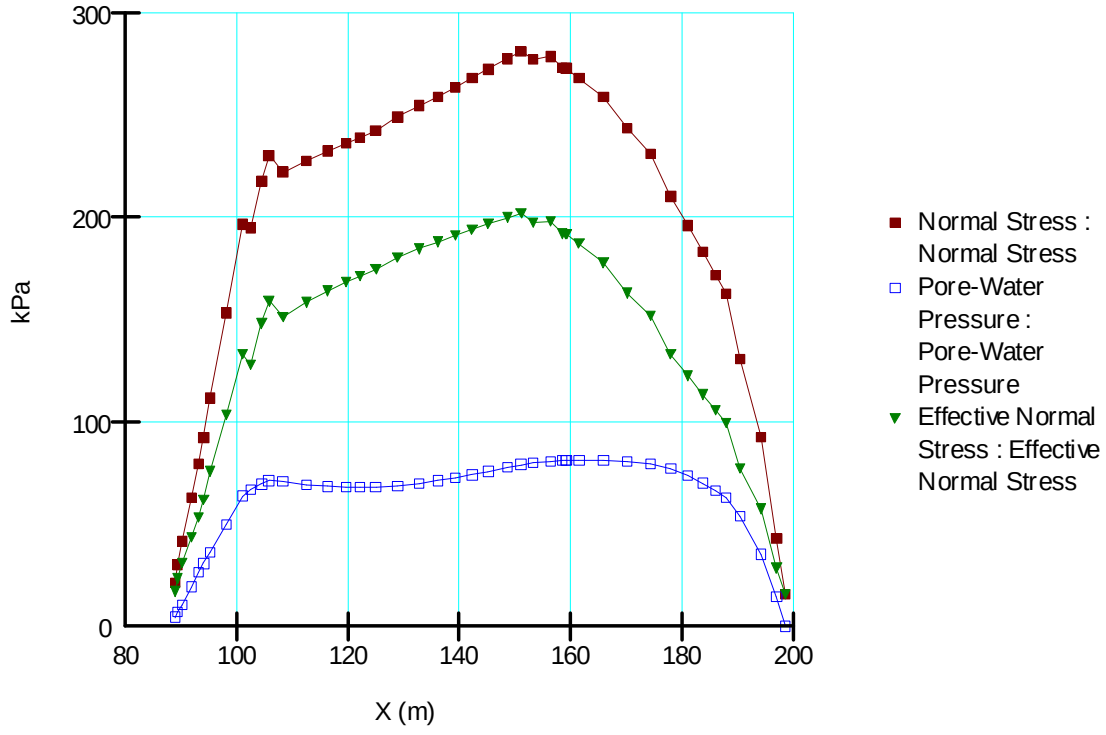
Cu-Rate of Change: 22 kPa/m
C/Cu Ratio: 0.1

Cl 6

Model: Combined, S=f(depth)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 25 kPa
Cu-Rate of Change: 2.63 kPa/m
C/Cu Ratio: 0.1



Figur 1. Kohesion och friktion.

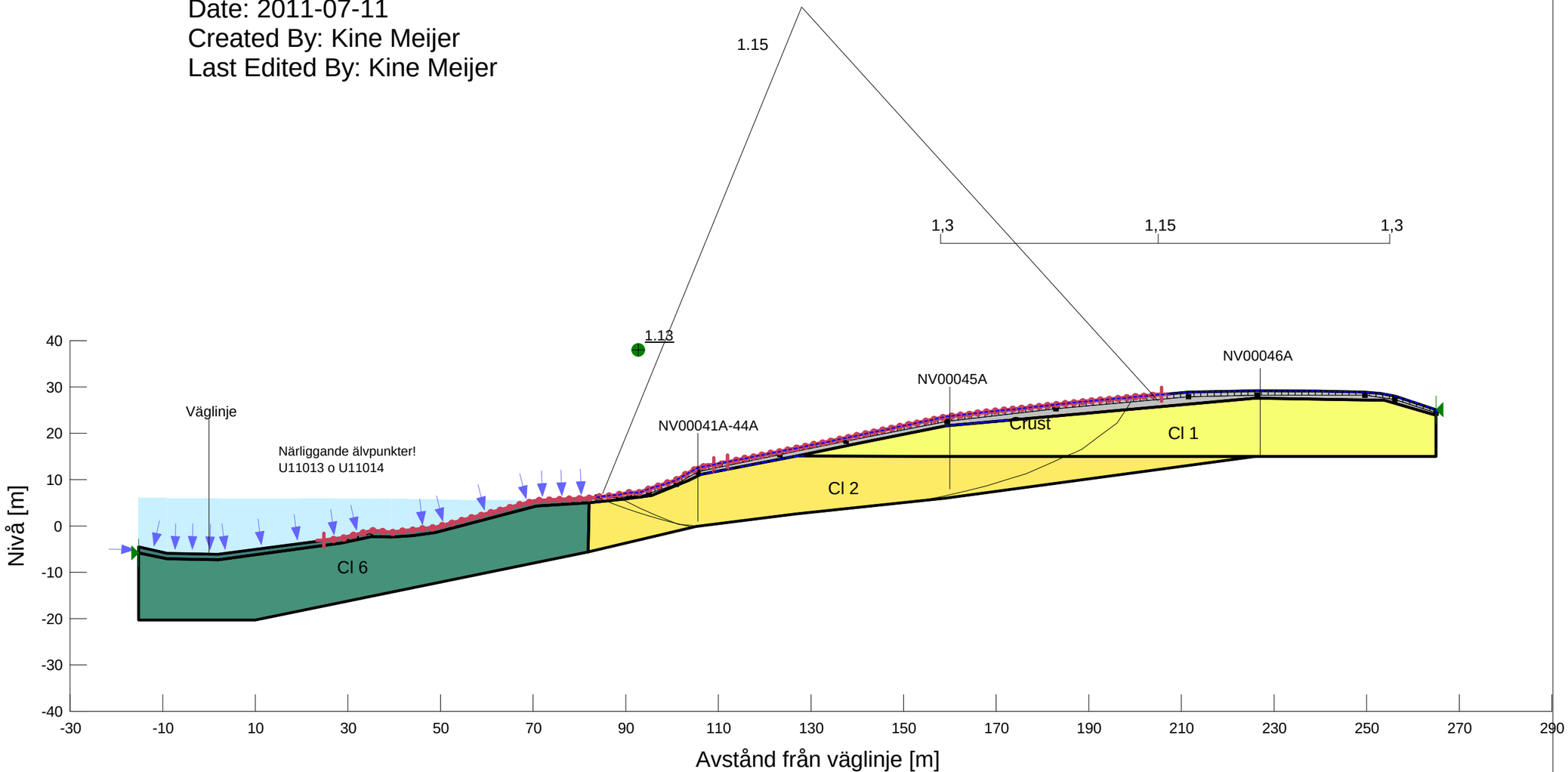


Figur 2. Totalspänning, effektivspänning och portryck.

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: V16830
Delområde: Intagan - Ström
Analysmetod: Kombinerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-07-11
Created By: Kine Meijer
Last Edited By: Kine Meijer



Skala 1:1000 (A3)

Name: Cl 1
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 28 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Cl 2
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 28 kPa
Cu-Rate of Change: 1.56 kPa/m
C/Cu Ratio: 0.1

Name: Crust
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 3 kPa
Phi: 30 °

Name: Cl 5
Model: Combined, S=f(depth)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 3 kPa
Cu-Rate of Change: 22 kPa/m
C/Cu Ratio: 0.1

Name: Cl 6
Model: Combined, S=f(depth)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 25 kPa
Cu-Rate of Change: 2.63 kPa/m
C/Cu Ratio: 0.1

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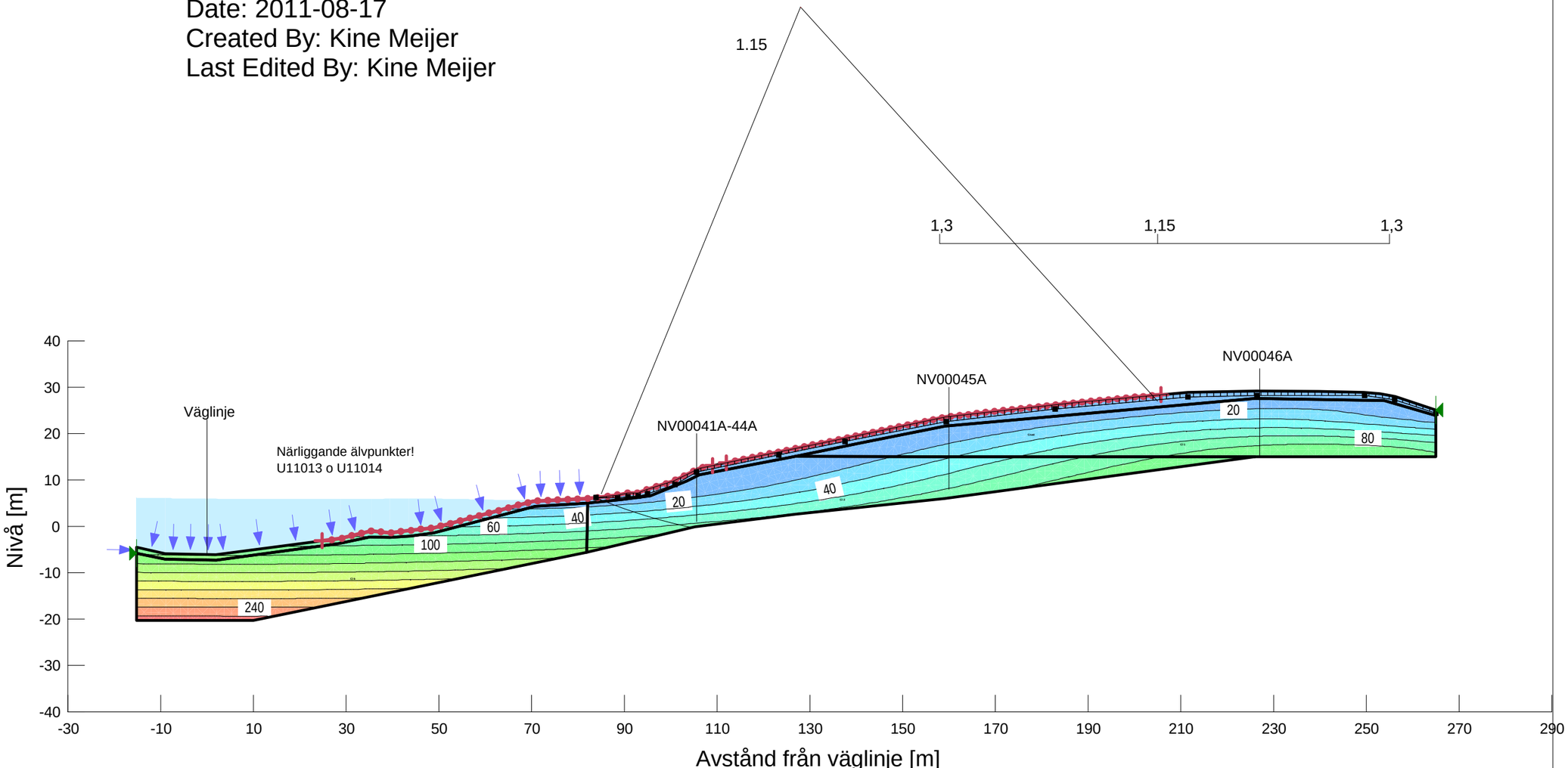
File Name: V16830_kombinerad_EE print.gsz

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: V16830
Delområde: Intagan - Ström
Analysmetod: Kombinerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-08-17
Created By: Kine Meijer
Last Edited By: Kine Meijer



Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16830\Beräkningar\110816\
File Name: V16830_kombinerad_EE print.gsz

Skala 1:1000 (A3)

Name: Cl 1
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 28 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Cl 2
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 28 kPa
Cu-Rate of Change: 1.56 kPa/m
C/Cu Ratio: 0.1

Name: Crust
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 3 kPa
Phi: 30 °

Name: Cl 5
Model: Combined, S=f(depth)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 3 kPa
Cu-Rate of Change: 22 kPa/m
C/Cu Ratio: 0.1

Name: Cl 6
Model: Combined, S=f(depth)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 25 kPa
Cu-Rate of Change: 2.63 kPa/m
C/Cu Ratio: 0.1