SLOPE/W Analysis H-V

File Information

Created By: Rebecca Bertilsson
Revision Number: 40
Last Edited By: Kine Meijer
Date: 2011-08-31
Time: 12:54:16
File Name: V16750_odränerad print.gsz
Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16750\110831\
Last Solved Date: 2011-08-31
Last Solved Time: 12:56:40

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 H-V

Kind: SLOPE/W
Method: Morgenstern-Price
Settings
- Apply Phreatic Correction: No
- Side Function
  - Interslice force function option: Half-Sine
- PWP Conditions Source: Piezometric Line
- Use Staged Rapid Drawdown: No

Slip Surface
- 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

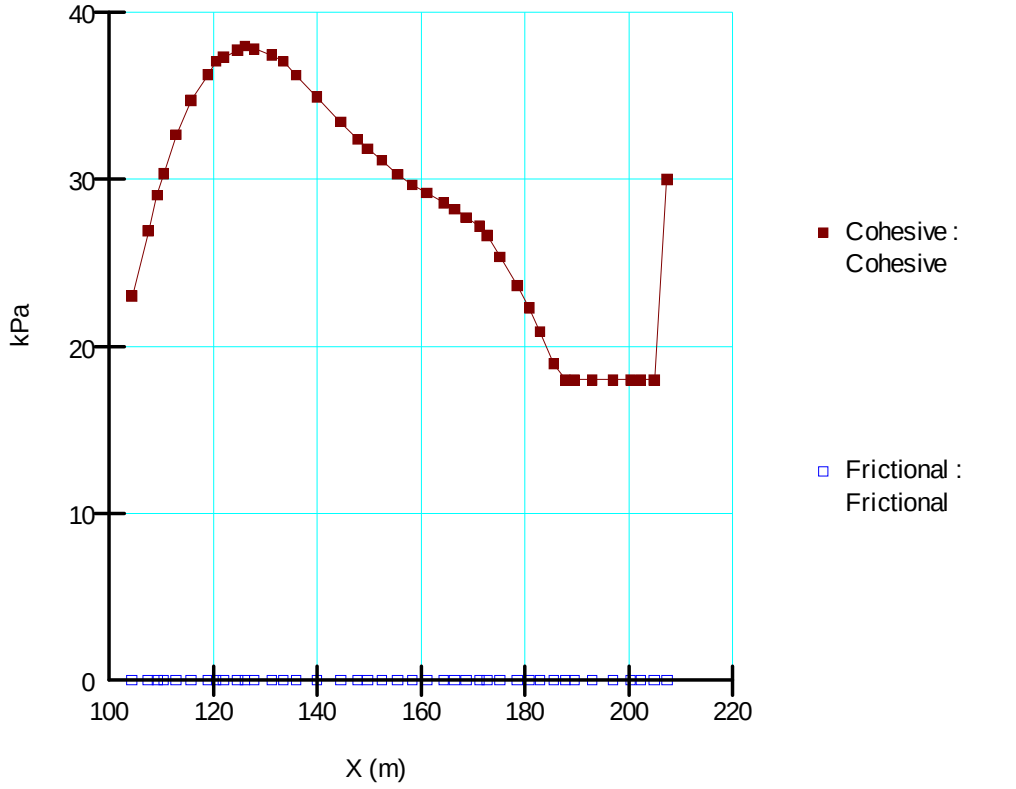
Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 18 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa
Elevation: 0 m
Pore Water Pressure
Piezometric Line: 1

Crust

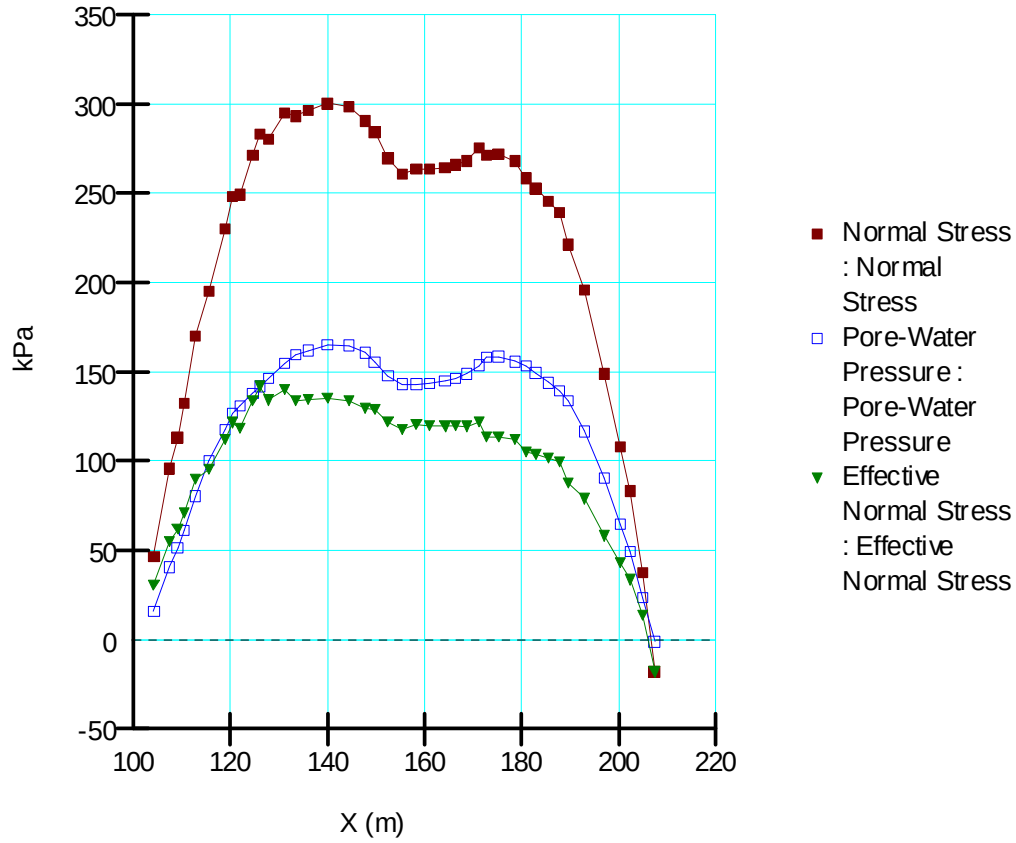
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 30 kPa
Phi: 0 °
Phi-B: 0 °
Pore Water Pressure
Piezometric Line: 1

Cl 2

Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 18 kPa
C-Rate of Change: 1.92 kPa/m
Limiting C: 0 kPa
Elevation: 15 m
Pore Water Pressure
Piezometric Line: 1



Figur 1. Kohesion och friktion.



Figur 2. Totalspänning, effektivspänning och portryck.

SLOPE/W Analysis V-H

File Information

Created By: Rebecca Bertilsson
Revision Number: 36
Last Edited By: Kine Meijer
Date: 2011-08-31
Time: 12:43:11
File Name: V16750_odränerad print.gsz
Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16750\110831\
Last Solved Date: 2011-08-31
Last Solved Time: 12:44:46

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 V-H

Kind: SLOPE/W
Method: Morgenstern-Price
Settings
- Apply Phreatic Correction: No
- Side Function
  - Interslice force function option: Half-Sine
- PWP Conditions Source: Piezometric Line
- Use Staged Rapid Drawdown: No

Slip Surface
- Direction of movement: Left to Right
- 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: 18 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa
Elevation: 0 m
Pore Water Pressure

Piezometric Line: 1

Crust

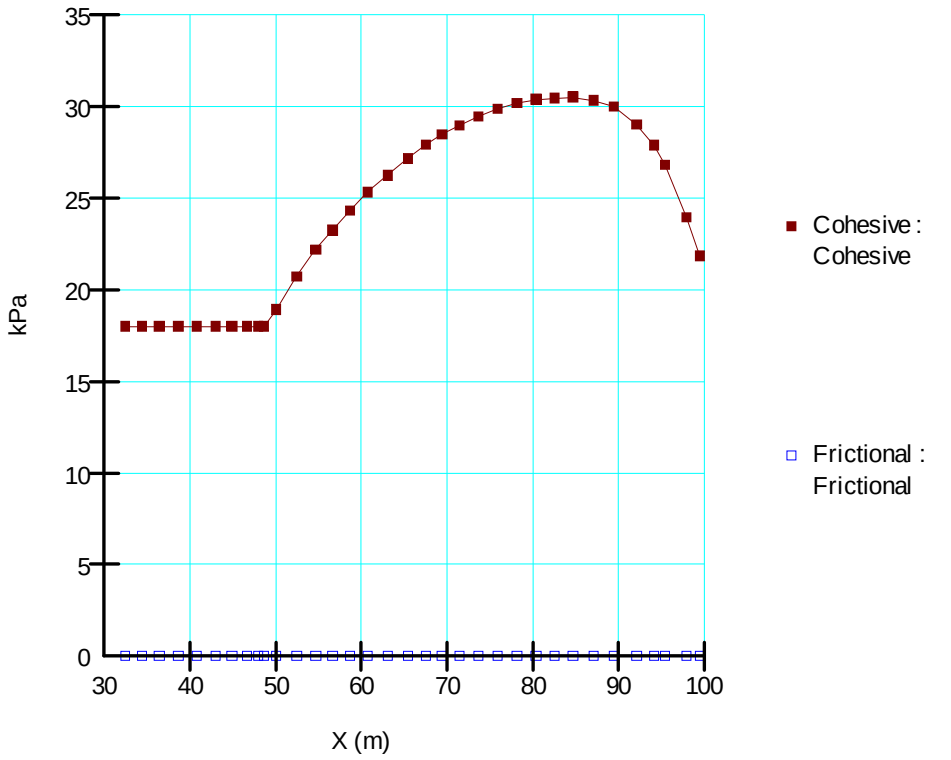
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 30 kPa
Phi: 0 °
Phi-B: 0 °
Pore Water Pressure

Piezometric Line: 1

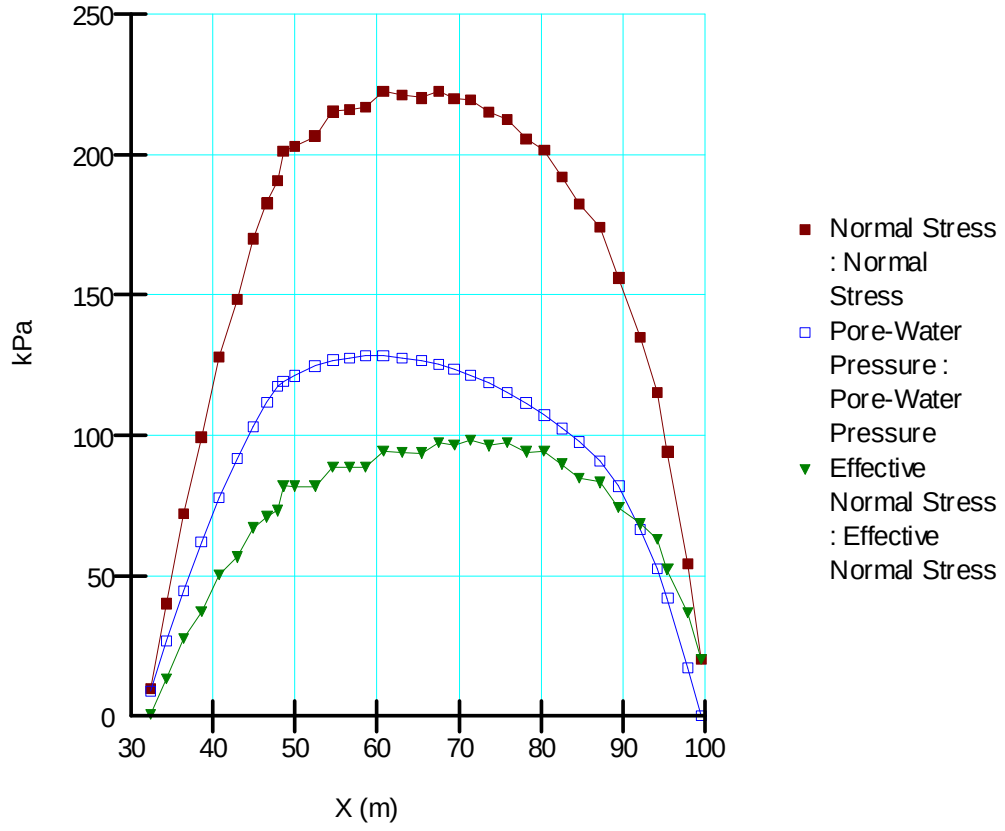
Cl 2

Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 18 kPa
C-Rate of Change: 1.92 kPa/m
Limiting C: 0 kPa
Elevation: 15 m
Pore Water Pressure

Piezometric Line: 1



Figur 1. Kohesion och friktion.



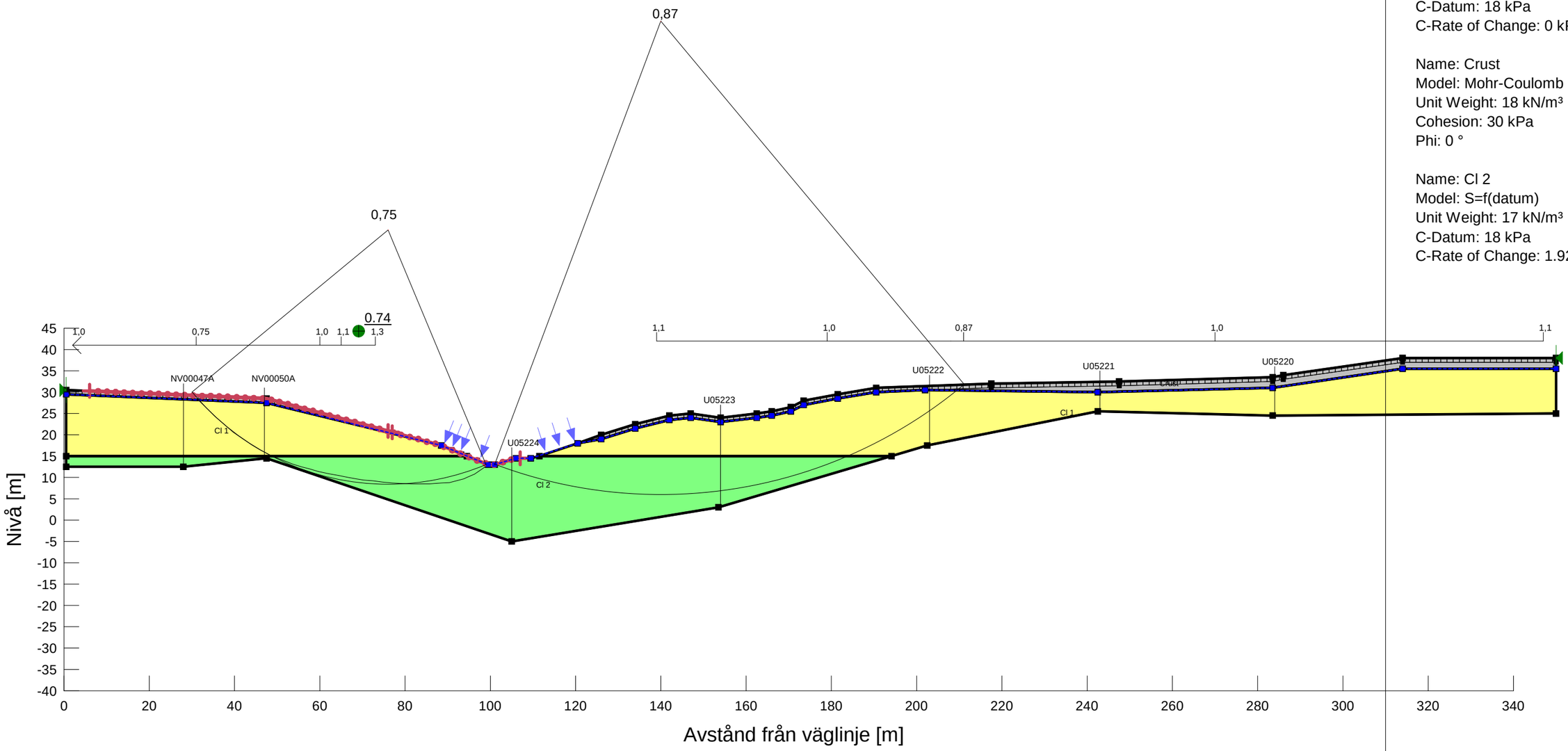
Figur 2. Totalspänning, effektivspänning och portryck.

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Skala 1:1000 (A3)

Sektion: V16750
Delområde: Intagan Ström
Analysmetod: Odränerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Piezometric Line
Date: 2011-08-31
Created By: Rebecca Bertilsson
Last Edited By: Kine Meijer



Name: Cl 1
Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 18 kPa
C-Rate of Change: 0 kPa/m

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

Name: Cl 2
Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 18 kPa
C-Rate of Change: 1.92 kPa/m

Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16750\110831\
File Name: V16750_odränerad print.gsz

SLOPE/W Analysis H-V

File Information

Created By: Rebecca Bertilsson
Revision Number: 45
Last Edited By: Rebecca Bertilsson
Date: 2011-05-11
Time: 13:43:32
File Name: V16750_kombinerad print ny.gsz
Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16750\110831\
Last Solved Date: 2011-05-11
Last Solved Time: 13:45:10

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 H-V

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.: Uppmätta värden

Slip Surface
- 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

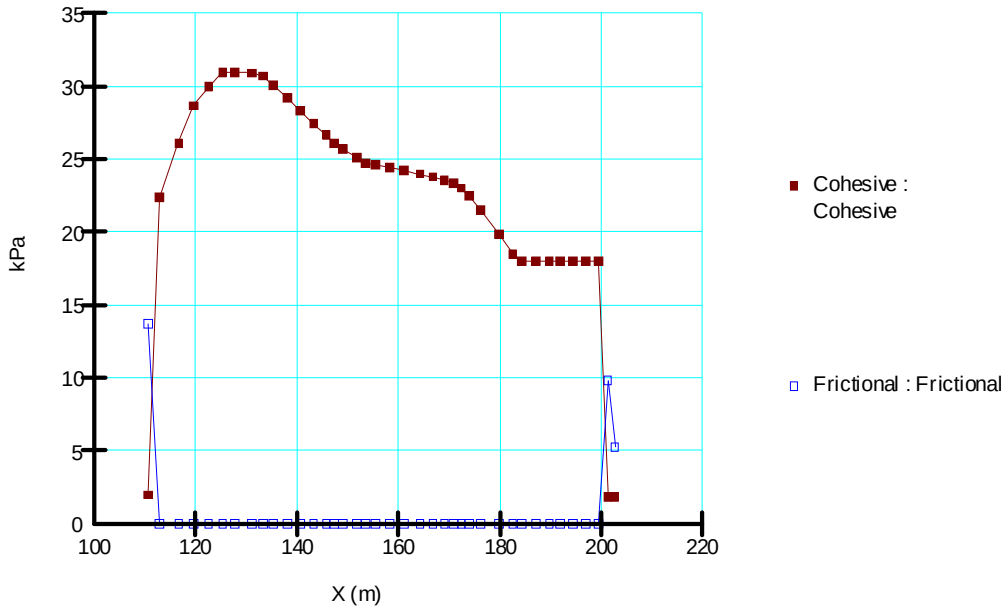
Advanced
- Number of Slices: 30
- Optimization Tolerance: 0.01
- Minimum Slip Surface Depth: 0.1 m
- Optimization Maximum Iterations: 2000
- Optimization Convergence Tolerance: 1e-007
- Starting Optimization Points: 8
- Ending Optimization Points: 16
- Complete Passes per Insertion: 1
- Driving Side Maximum Convex Angle: 5 °
- Resisting Side Maximum Convex Angle: 1 °

Materials

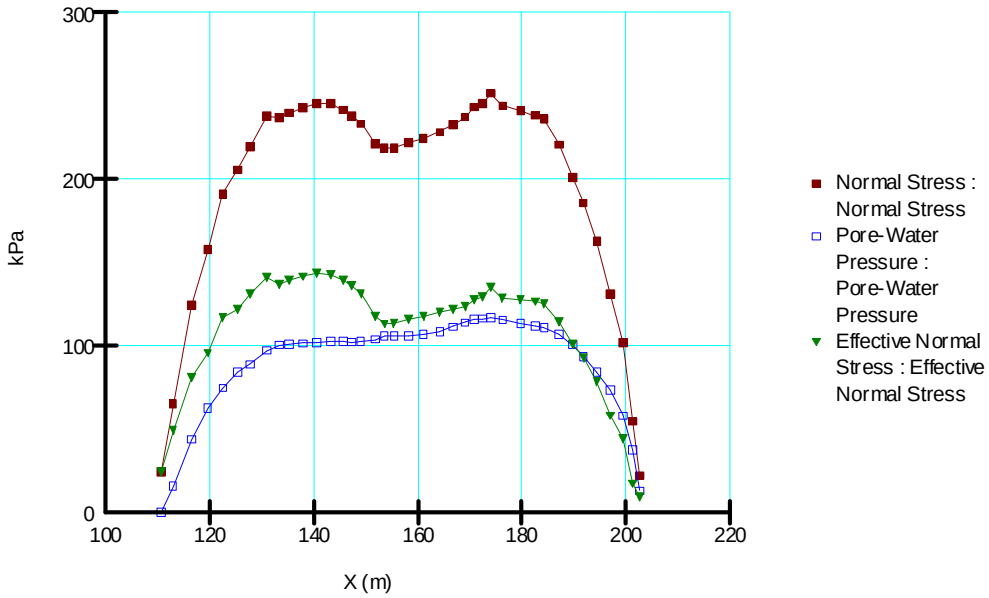
Cl 1
- Model: Combined, S=f(datum)
- Unit Weight: 17 kN/m³
- Phi: 30 °
- C-Datum: 0 kPa
- C-Rate of Change: 0 kPa/m
- Cu-Datum: 18 kPa
- Cu-Rate of Change: 0 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 0 m

Crust
- Model: Combined, S=f(datum)
- Unit Weight: 18 kN/m³
- Phi: 30 °
- C-Datum: 0 kPa
- C-Rate of Change: 0 kPa/m
- Cu-Datum: 30 kPa
- Cu-Rate of Change: 0 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 0 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: 18 kPa
- Cu-Rate of Change: 1.92 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 15 m



Figur 1. Kohesion och friktion.



Figur 2. Totalspänning, effektivspänning och portryck.

SLOPE/W Analysis V-H

File Information

Created By: Rebecca Bertilsson
Revision Number: 54
Last Edited By: Kine Meijer
Date: 2011-08-31
Time: 13:18:21
File Name: V16750_kombinerad print ny.gsz
Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16750\110831\
Last Solved Date: 2011-08-31
Last Solved Time: 13:24:36

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 V-H

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.: Uppmätta värden

Slip Surface
- Direction of movement: Left to Right
- 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

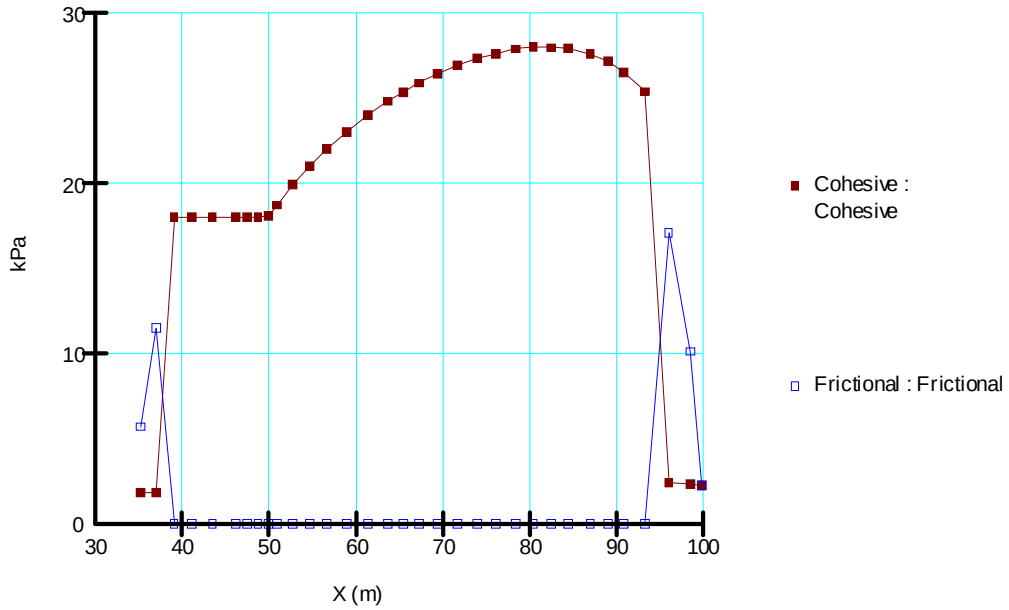
Advanced
- Number of Slices: 30
- Optimization Tolerance: 0.01
- Minimum Slip Surface Depth: 0.1 m
- Optimization Maximum Iterations: 2000
- Optimization Convergence Tolerance: 1e-007
- Starting Optimization Points: 8
- Ending Optimization Points: 16
- Complete Passes per Insertion: 1
- Driving Side Maximum Convex Angle: 5 °
- Resisting Side Maximum Convex Angle: 1 °

Materials

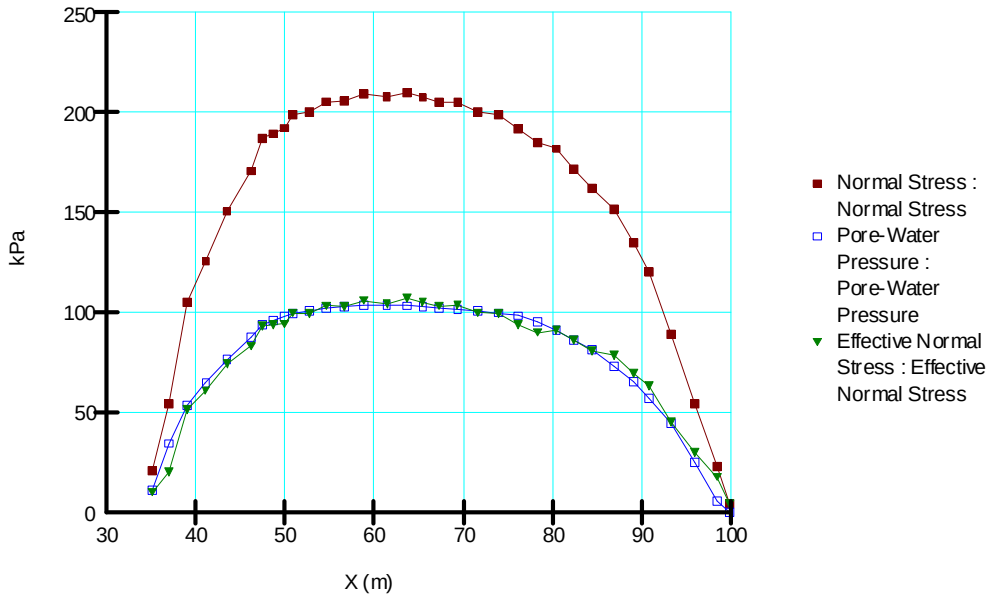
Cl 1
- Model: Combined, S=f(datum)
- Unit Weight: 17 kN/m³
- Phi: 30 °
- C-Datum: 0 kPa
- C-Rate of Change: 0 kPa/m
- Cu-Datum: 18 kPa
- Cu-Rate of Change: 0 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 0 m

Crust
- Model: Combined, S=f(datum)
- Unit Weight: 18 kN/m³
- Phi: 30 °
- C-Datum: 0 kPa
- C-Rate of Change: 0 kPa/m
- Cu-Datum: 30 kPa
- Cu-Rate of Change: 0 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 0 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: 18 kPa
- Cu-Rate of Change: 1.92 kPa/m
- C/Cu Ratio: 0.1
- Elevation: 15 m



Figur 1. Kohesion och friktion.



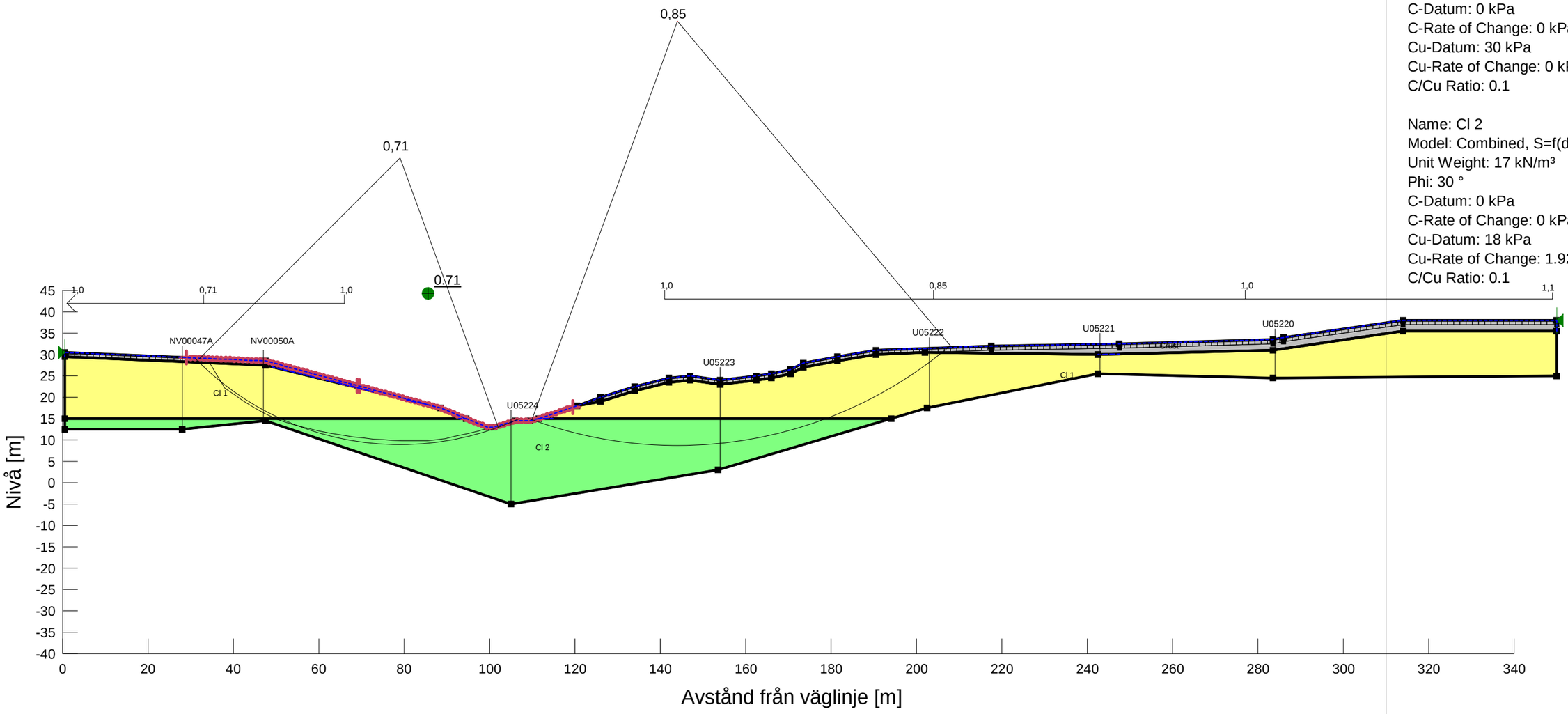
Figur 2. Totalspänning, effektivspänning och portryck.

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Skala 1:1000 (A3)

Sektion: V16750
Delområde: Intagan Ström
Analysmetod: Kombinerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-08-31
Created By: Rebecca Bertilsson
Last Edited By: Kine Meijer



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: 18 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Crust
Model: Combined, S=f(datum)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 30 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: 18 kPa
Cu-Rate of Change: 1.92 kPa/m
C/Cu Ratio: 0.1

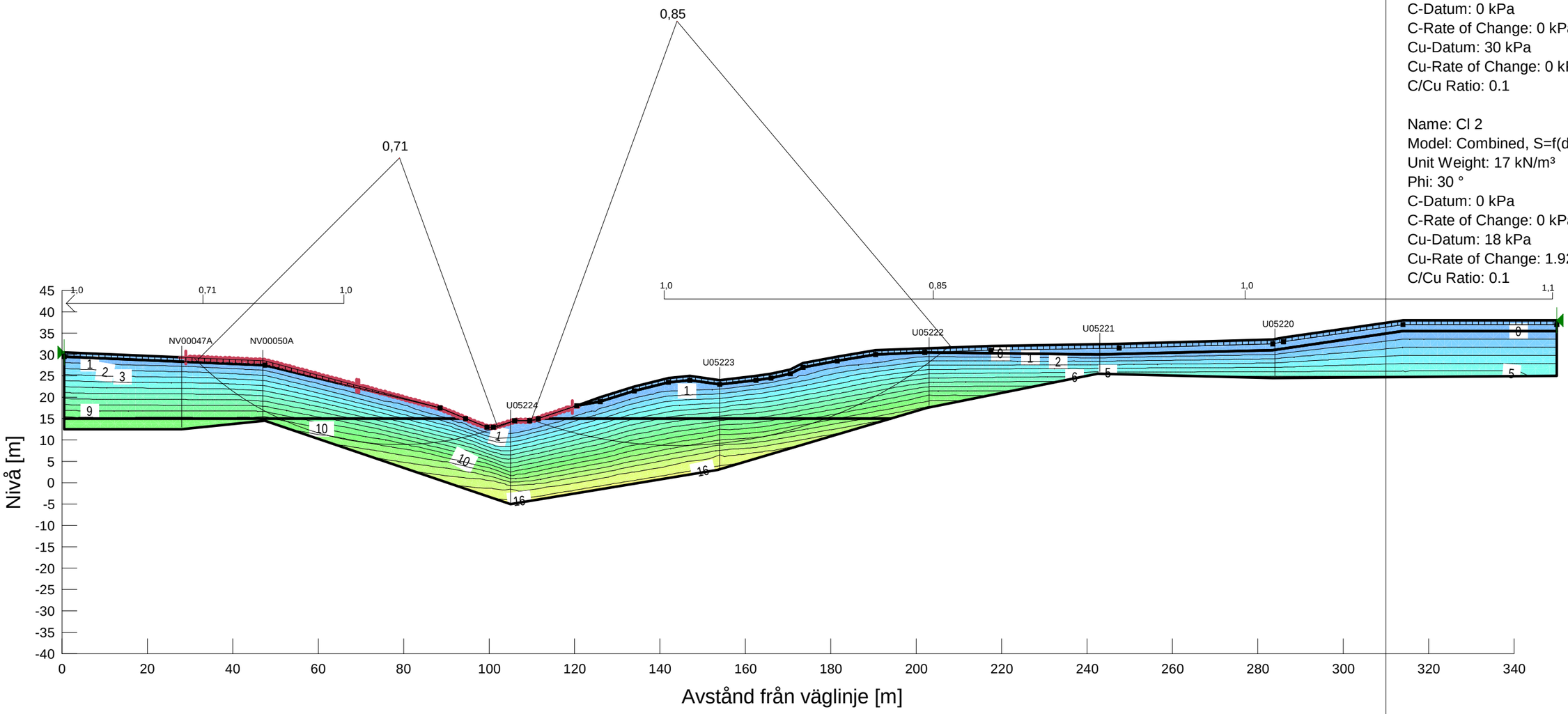
Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16750\110831\
File Name: V16750_kombinerad print ny.gsz

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Skala 1:1000 (A3)

Sektion: V16750
Delområde: Intagan Ström
Analysmetod: Kombinerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-08-31
Created By: Rebecca Bertilsson
Last Edited By: Kine Meijer



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: 18 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Crust
Model: Combined, S=f(datum)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 30 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: 18 kPa
Cu-Rate of Change: 1.92 kPa/m
C/Cu Ratio: 0.1

Directory: P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V16750\110831\
File Name: V16750_kombinerad print ny.gsz