

SLOPE/W Analysis

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File Information

Created By: [Rebecca Bertilsson](#)
Revision Number: 47
Last Edited By: [Rebecca Bertilsson](#)
Date: 2011-05-31
Time: 08:43:11
File Name: [V15540_odränerad print.gsz](#)
Directory: [P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V15540\110816\](#)
Last Solved Date: 2011-05-31
Last Solved Time: 08:44:18

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
 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

CI

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

Unit Weight: 17 kN/m³

C-Top of Layer: 14 kPa

C-Rate of Change: 2.67 kPa/m

Limiting C: 0 kPa

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

CI 2

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

Unit Weight: 17 kN/m³

C-Top of Layer: 30 kPa

C-Rate of Change: 4.38 kPa/m

Limiting C: 0 kPa

Pore Water Pressure

Piezometric Line: 1

CI 3

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

Unit Weight: 17 kN/m^3

C-Top of Layer: 0 kPa

C-Rate of Change: 25 kPa/m

Limiting C: 0 kPa

Pore Water Pressure

Piezometric Line: 1

CI 4

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

Unit Weight: 17 kN/m^3

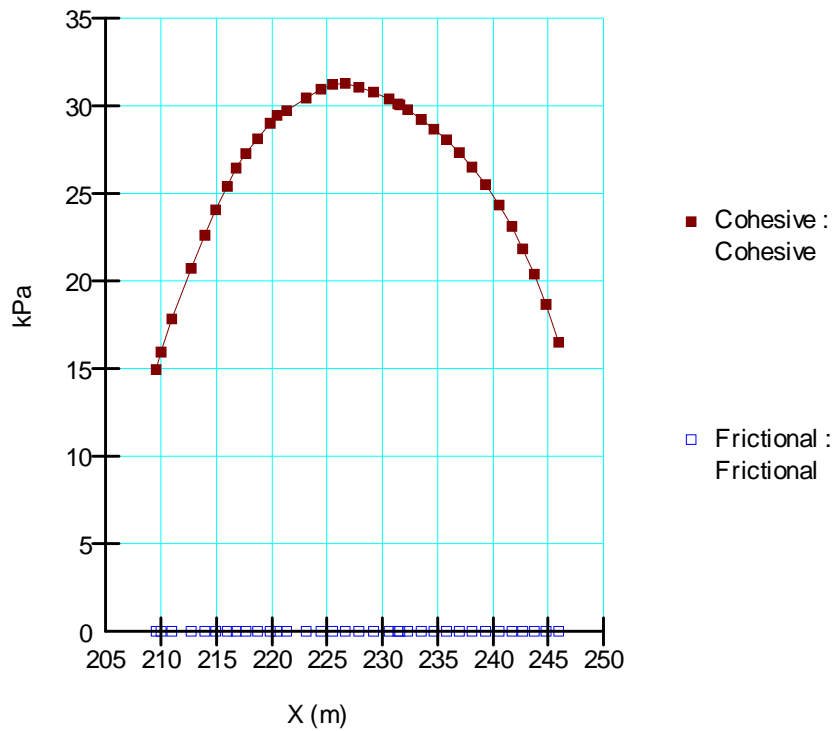
C-Top of Layer: 25 kPa

C-Rate of Change: 2.37 kPa/m

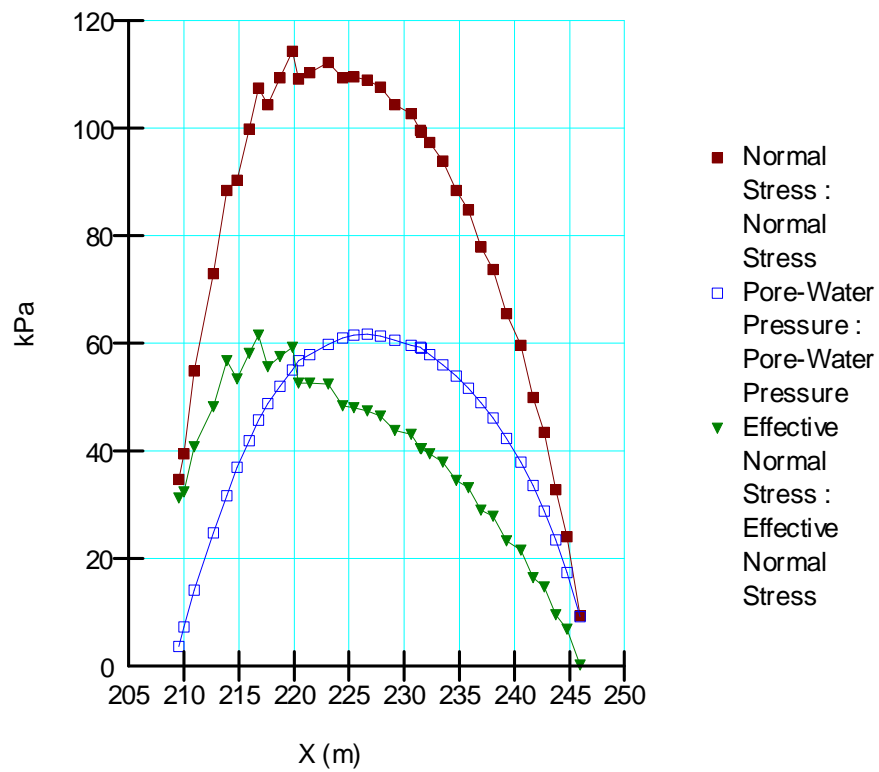
Limiting C: 0 kPa

Pore Water Pressure

Piezometric Line: 1



Figur 1. Kohesion och friktion.



Figur 2. Totalspänning, effektivspänning och portryck.

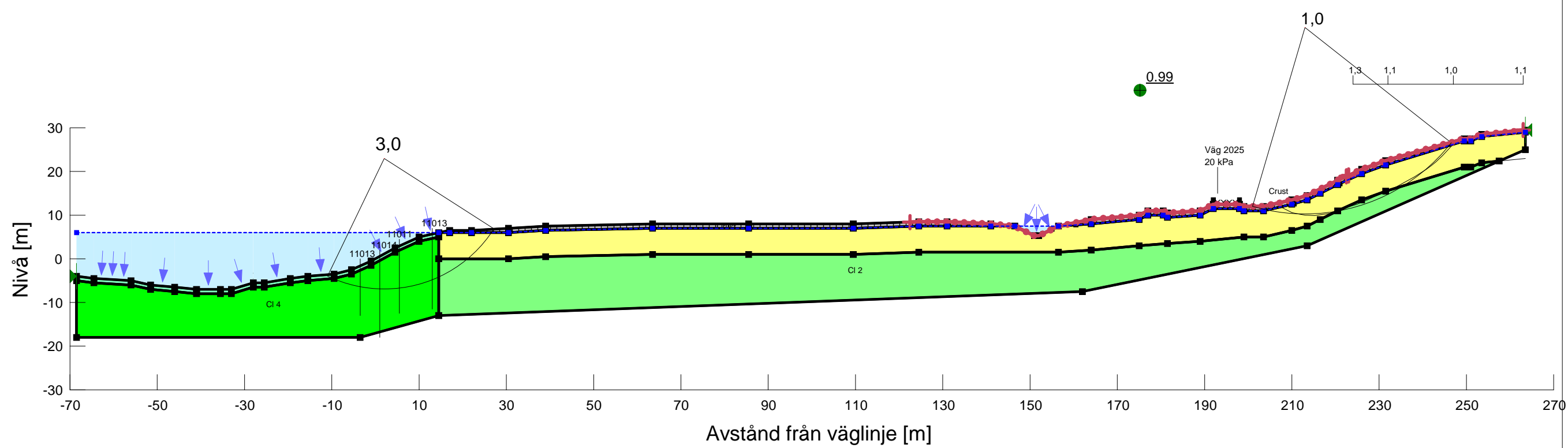


KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: V15540
Delområde: Intagan Ström
Analysmetod: Odränerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Piezometric Line
Date: 2011-08-30
Created By: Rebecca Bertilsson
Last Edited By: Kine Meijer

- Name: CI
Model: S=f(depth)
Unit Weight: 17 kN/m³
C-Top of Layer: 14 kPa
C-Rate of Change: 2.67 kPa/m
- Name: Crust
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 30 kPa
Phi: 0 °
- Name: CI 2
Model: S=f(depth)
Unit Weight: 17 kN/m³
C-Top of Layer: 30 kPa
C-Rate of Change: 4.38 kPa/m
- Name: CI 3
Model: S=f(depth)
Unit Weight: 17 kN/m³
C-Top of Layer: 0 kPa
C-Rate of Change: 25 kPa/m
- Name: CI 4
Model: S=f(depth)
Unit Weight: 17 kN/m³
C-Top of Layer: 25 kPa
C-Rate of Change: 2.37 kPa/m



SLOPE/W Analysis

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File Information

Created By: [Rebecca Bertilsson](#)
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Date: [2011-08-30](#)
Time: [13:58:47](#)
File Name: [V15540_kombineradprint.gsz](#)
Directory: [P:\!Göta älv utredningen 2009-2012\Delområde 1-10\Delområde 5-14085\Geoteknik\Text\Interngranskning\V15540\110816\](#)
Last Solved Date: [2011-08-30](#)
Last Solved Time: [14:00:02](#)

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.: [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

CI 1

Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 14 kPa
Cu-Rate of Change: 2.67 kPa/m
C/Cu Ratio: 0.1

Crust

Model: Combined, $S=f(\text{depth})$
Unit Weight: 18 kN/m³
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

CI 2

Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 kN/m³
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: 4.38 kPa/m
C/Cu Ratio: 0.1

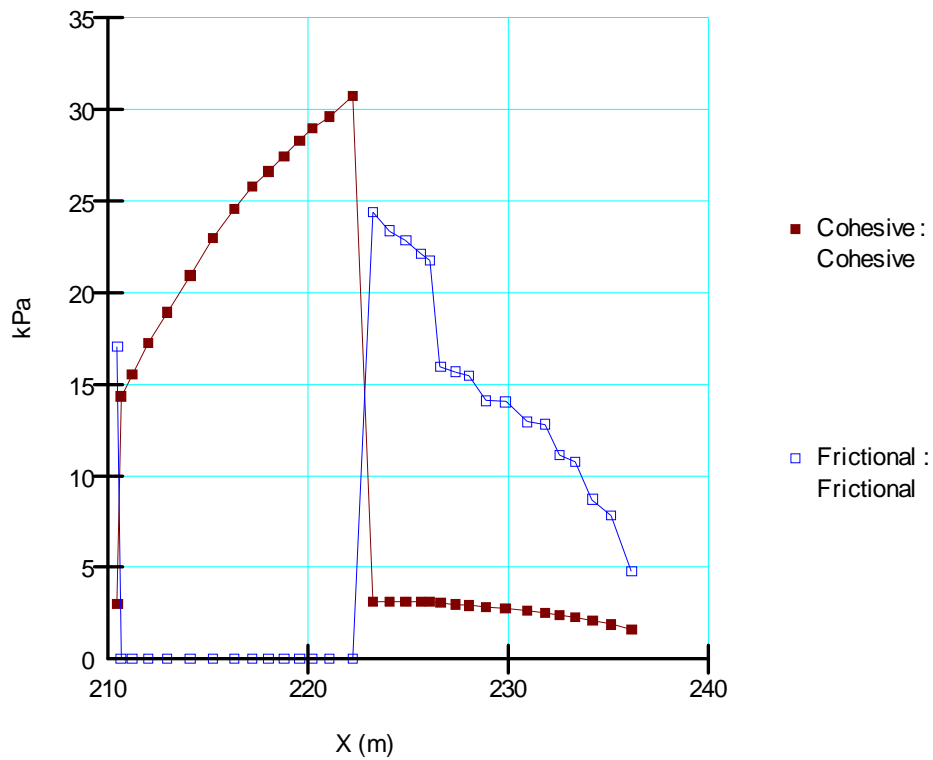
CI 3

Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m

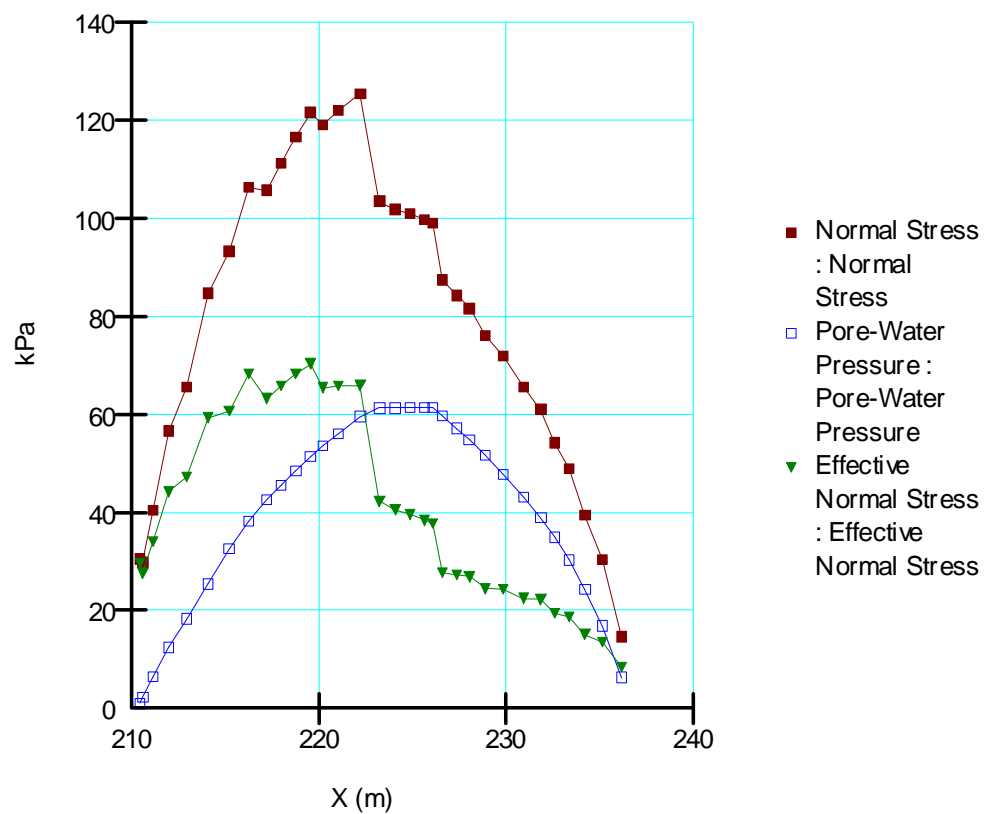
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 25 kPa/m
C/Cu Ratio: 0.1

CI 4

Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 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: 2.37 kPa/m
C/Cu Ratio: 0.1



Figur 1. Kohesion och friktion.



Figur 2. Totalspänning, effektivspänning och portryck.



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: V15540
Delområde: Intagan Ström
Analysmetod: Kombinerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-08-30
Created By: Rebecca Bertilsson
Last Edited By: Kine Meijer

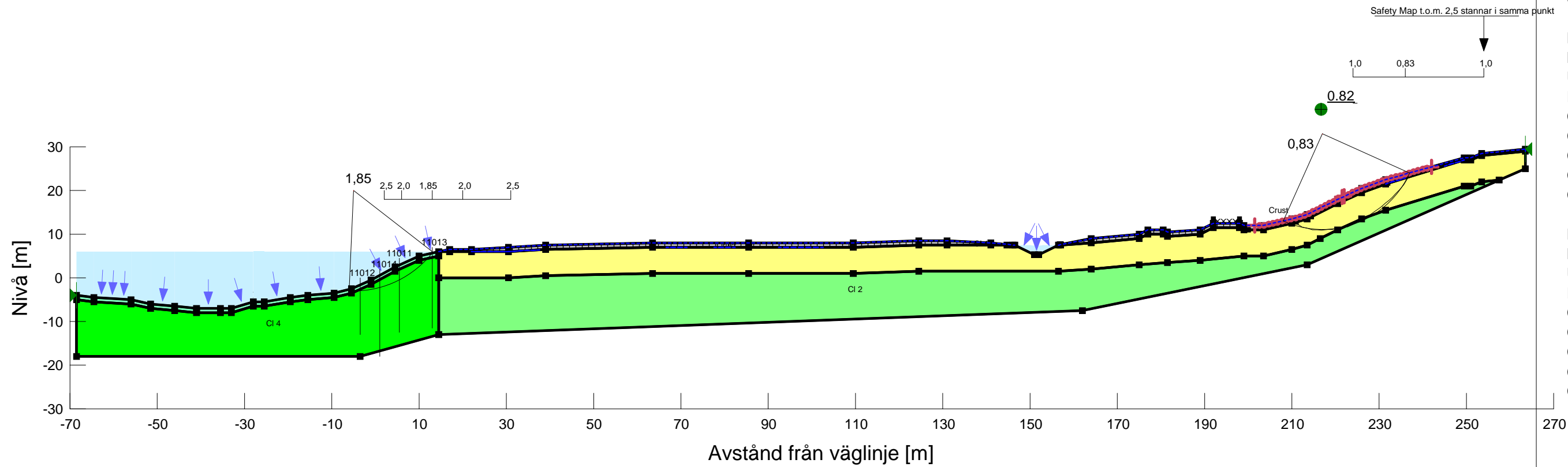
Name: CI 1
Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 14 kPa
Cu-Rate of Change: 2.67 kPa/m
C/Cu Ratio: 0.1

Name: Crust
Model: Combined, $S=f(\text{depth})$
Unit Weight: 18 kN/m³
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

Name: CI 2
Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 kN/m³
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: 4.38 kPa/m
C/Cu Ratio: 0.1

Name: CI 3
Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 25 kPa/m
C/Cu Ratio: 0.1

Name: CI 4
Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 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: 2.37 kPa/m
C/Cu Ratio: 0.1





KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: V15540
Delområde: Intagan Ström
Analysmetod: Kombinerad analys

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-08-30
Created By: Rebecca Bertilsson
Last Edited By: Kine Meijer

Name: CI 1
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 14 kPa
Cu-Rate of Change: 2.67 kPa/m
C/Cu Ratio: 0.1

Name: Crust
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
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

Name: CI 2
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
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: 4.38 kPa/m
C/Cu Ratio: 0.1

Name: CI 3
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 25 kPa/m
C/Cu Ratio: 0.1

Name: CI 4
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 25 kPa
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C/Cu Ratio: 0.1

