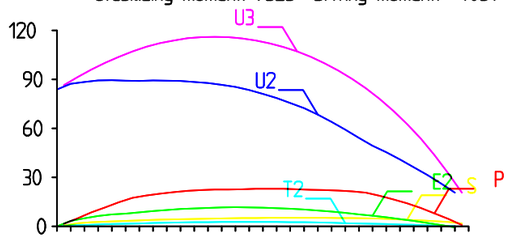
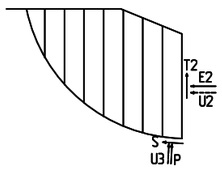
Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 13.R4

[kPa]

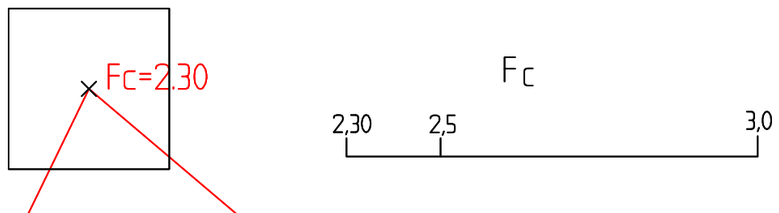
Stabilizing moment: 9325 Driving moment: -4051 Score: 0.22



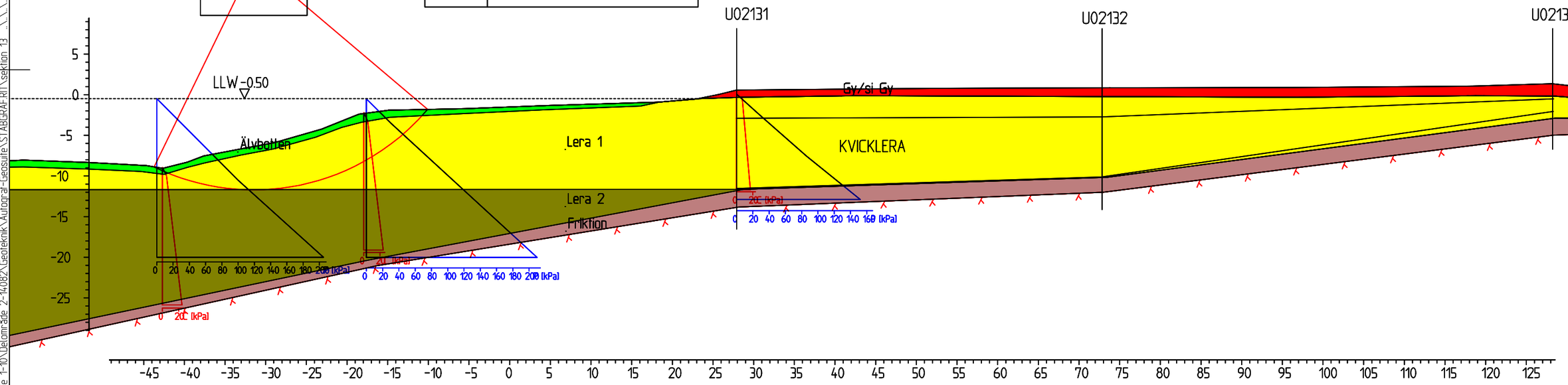


Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Gy/si Gy	15.00			C-prof	1.00	1.00	1.00
Älvbotten	15.00			C-prof	1.00	1.00	1.00
Lera 1	14.70			C-prof	1.00	1.00	1.00
Lera 2	15.50			C-prof	1.00	1.00	1.00
Friktion	18.00	38.0	0.0				

Search area (tangent)



U02134 VID AVSTÅND
CA 180 M FRÅN VL

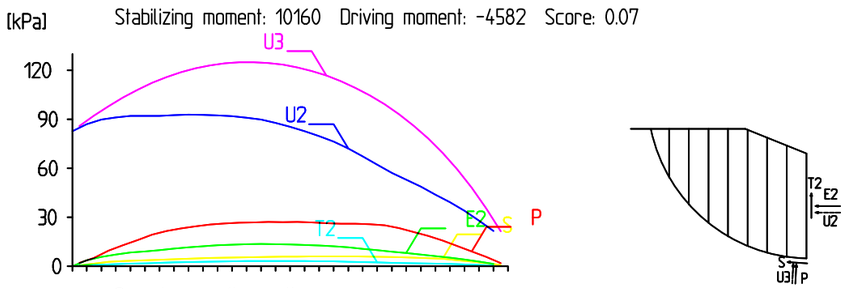


KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN
ODRÄNERAD ANALYS
SEKTION 13, (72/680 V)
SKALA 1:500 (A3)
2011-05-18
o:\106278\110126_do2\gäu delområde 2\...\sektion 13.dwg

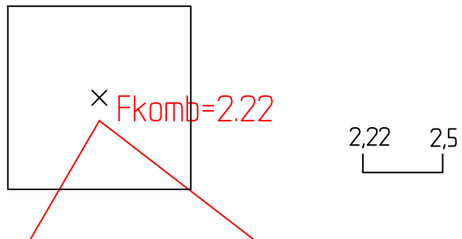
XREF: 0:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion 13 ..\..\..\..\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAF.RIT\Sektion_13-4

Ritning: 0:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 13\Ritdef_beräkningar_13_odr.dwg Skapad av: Thelander Jonas 2011 7 01 16.12

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 13 - kombinerad.R3

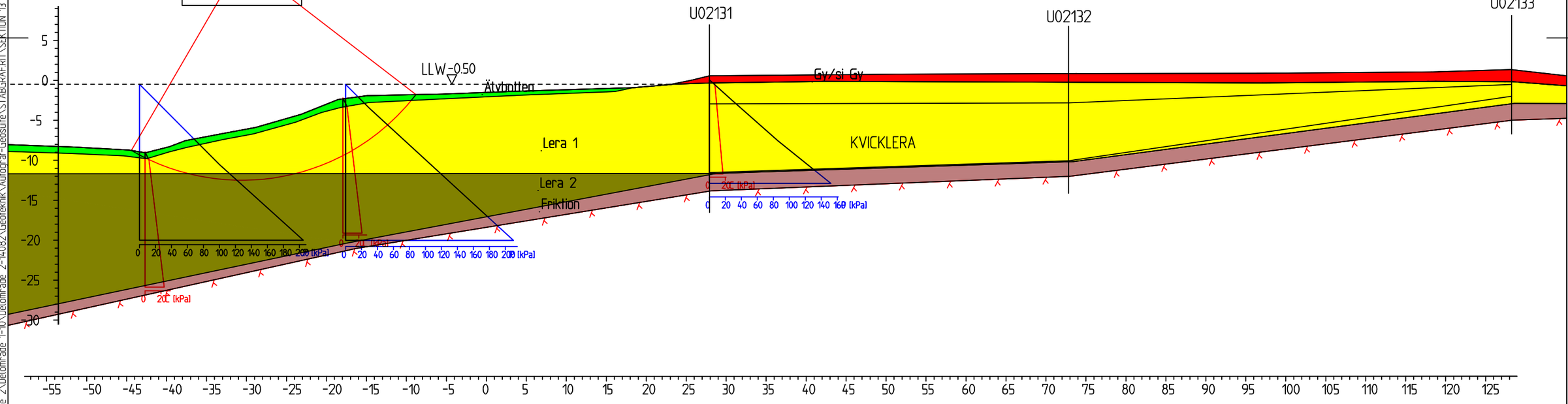


Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Gy/si Gy	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Älvbotten	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Lera 1	14.70	30.0	10%	C-prof	1.00	1.00	1.00
Lera 2	15.50	30.0	10%	C-prof	1.00	1.00	1.00
Friktion	18.00	38.0	0.0	100.0	1.00	1.00	1.00



FKOMB

U02134 VID AVSTÅND
CA 180 M FRÅN VL



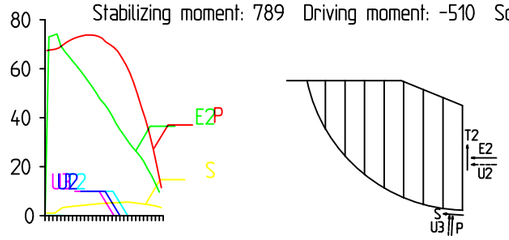
KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN
KOMBINERAD ANALYS
SEKTION 13, (72/680 V)
SKALA 1:500 (A3)
2011-05-18
o:\106278\110126_do2\gäu delområde 2\...\sektion 13.dwg

XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF-RIT\SEKTION 13 - KOMBINERAD ...\...\...\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAF
Ritning: O:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 13\Ritdef_beräkningar_13_KOMB.dwg Skapad av: Thelander Jonas 2011 7 01 16.12

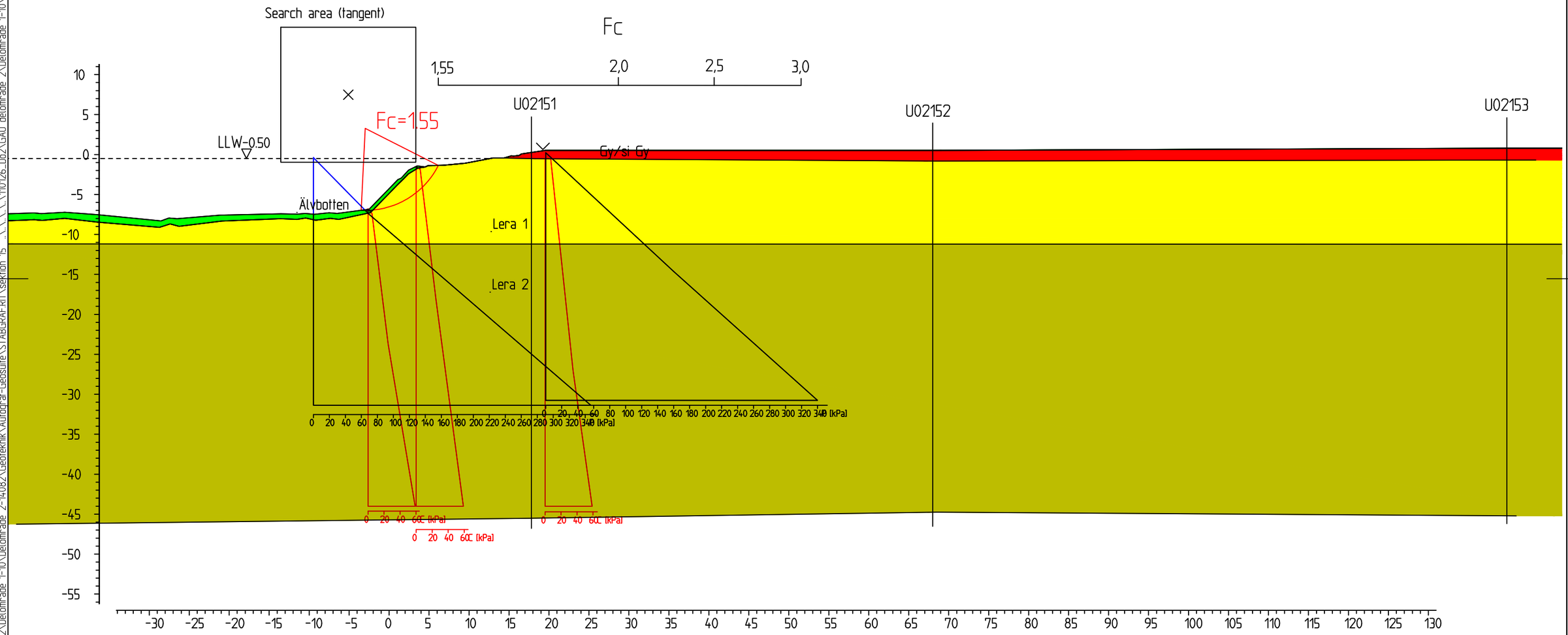
Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 15.R2

[kPa]

Stabilizing moment: 789 Driving moment: -510 Score: 0.11



Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Älvbotten	15.00			C-prof	1.00	1.00	1.00
Gy/si Gy	15.00			C-prof	1.00	1.00	1.00
Lera 1	15.10			C-prof	1.00	1.00	1.00
Lera 2	16.30			C-prof	1.00	1.00	1.00



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

ODRÄNERAD ANALYS

SEKTION 15, (KM 70/520 V)

SKALA 1:500 (A3)

2011-06-30

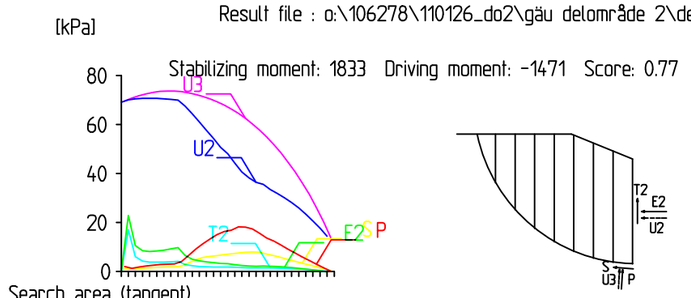
o:\106278\110126_do2\gäu delområde 2\...\sektion 15.dwg

XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion 15 ...\...\...\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion_13-4

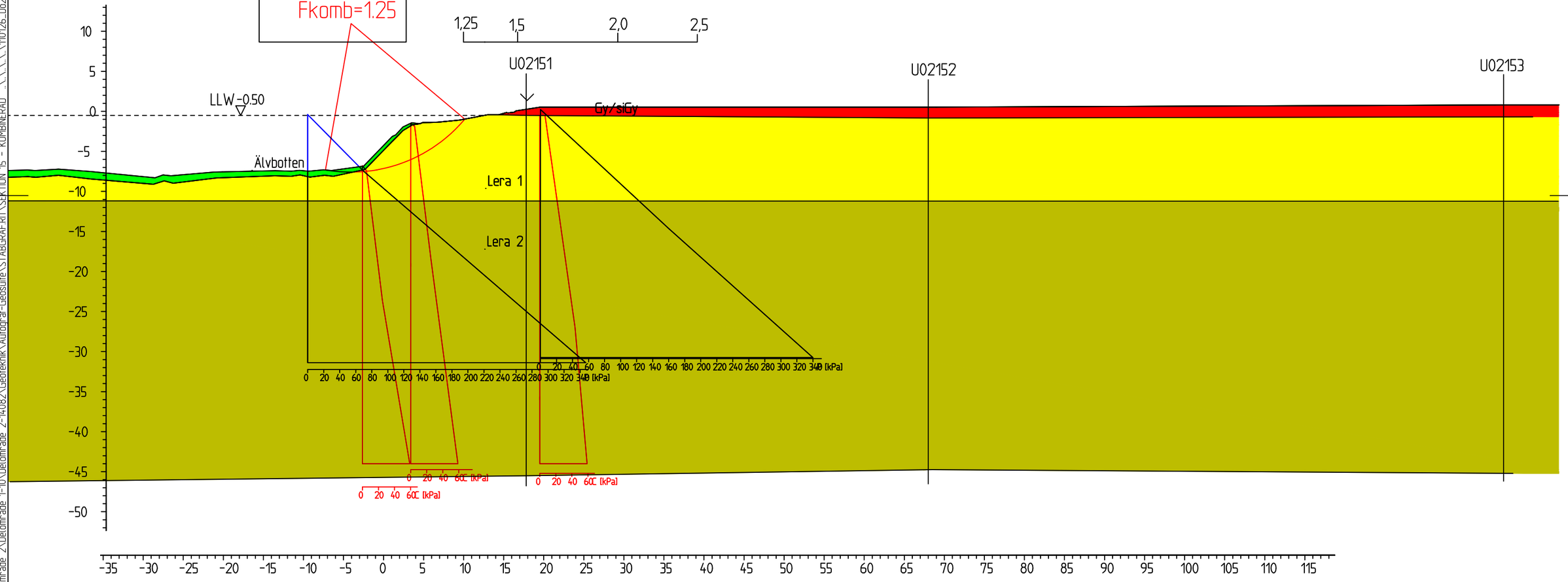
Ritning: O:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 15\Sektion 15_odränerad.dwg Skapad av: Thelander Jonas 2011 7 01 16.17

Bilaga 1:4

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 15 - kombinerad.R1



Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Älvbotten	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Gy/siGy	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Lera 1	15.10	30.0	10%	C-prof	1.00	1.00	1.00
Lera 2	16.30	30.0	10%	C-prof	1.00	1.00	1.00



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

KOMBINERAD ANALYS

SEKTION 15, (KM 70/520 V)

SKALA 1:500 (A3)

2011-06-30

o:\106278\110126_do2\gäu delområde 2\...\sektion 15.dwg

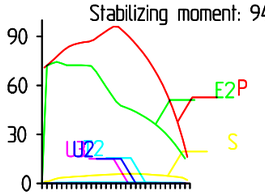
XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\SEKTION 15 - KOMBINERAD ...\...\...\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAF

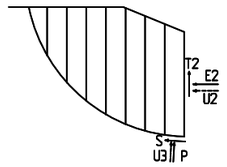
Ritning: O:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 15\Sektion 15_komb.dwg Skapad av: Thelander Jonas 2011 7 01 16.15

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 17.R1

[kPa]

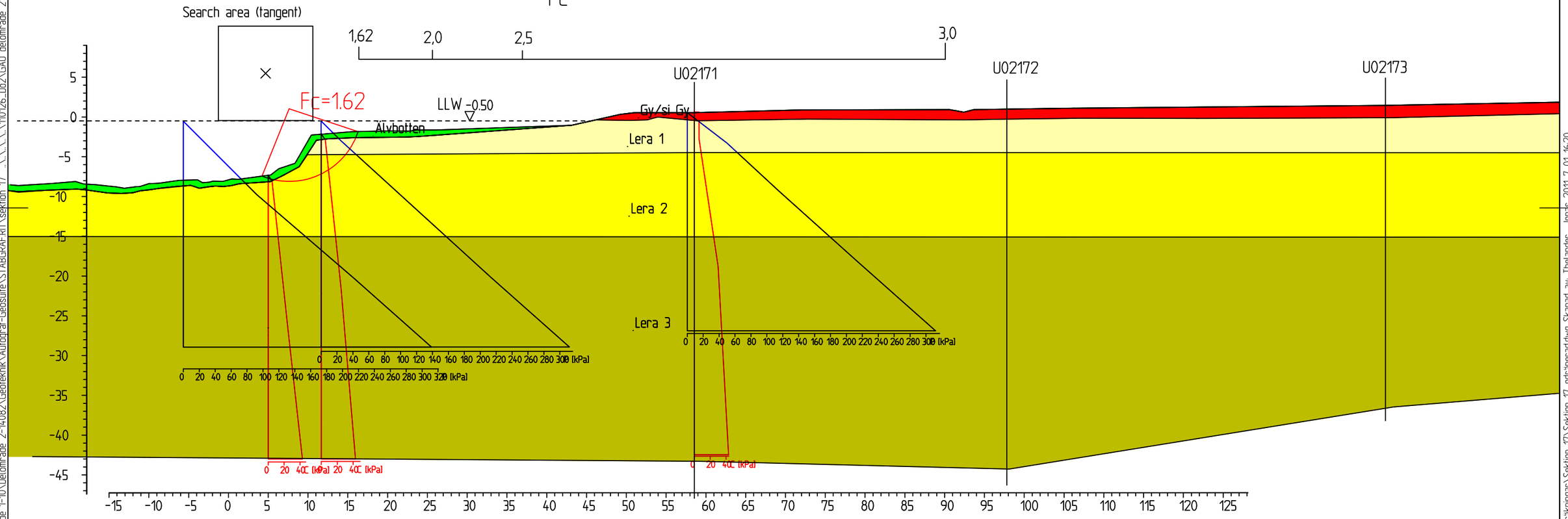
Stabilizing moment: 942 Driving moment: -583 Score: 0.05





Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Älvbotten	15.00			C-prof	1.00	1.00	1.00
Gy/si Gy	15.00			C-prof	1.00	1.00	1.00
Lera 1	14.30			C-prof	1.00	1.00	1.00
Lera 2	15.00			C-prof	1.00	1.00	1.00
Lera 3	16.00			C-prof	1.00	1.00	1.00

Fc



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

ODRÄNERAD ANALYS

SEKTION 17, (KM 69/000 V)

SKALA 1:500 (A3)

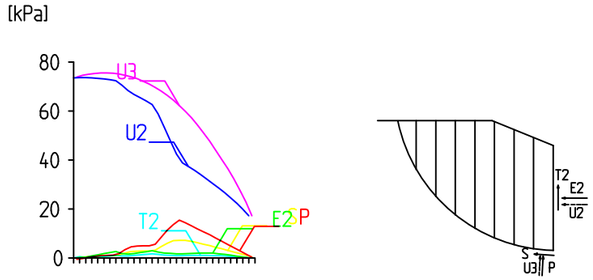
2011-06-30

o:\106278\110126_do2\gäu delområde 2\...\sektion 17.dwg

XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion 17 ...\...\...\...\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion_13-4

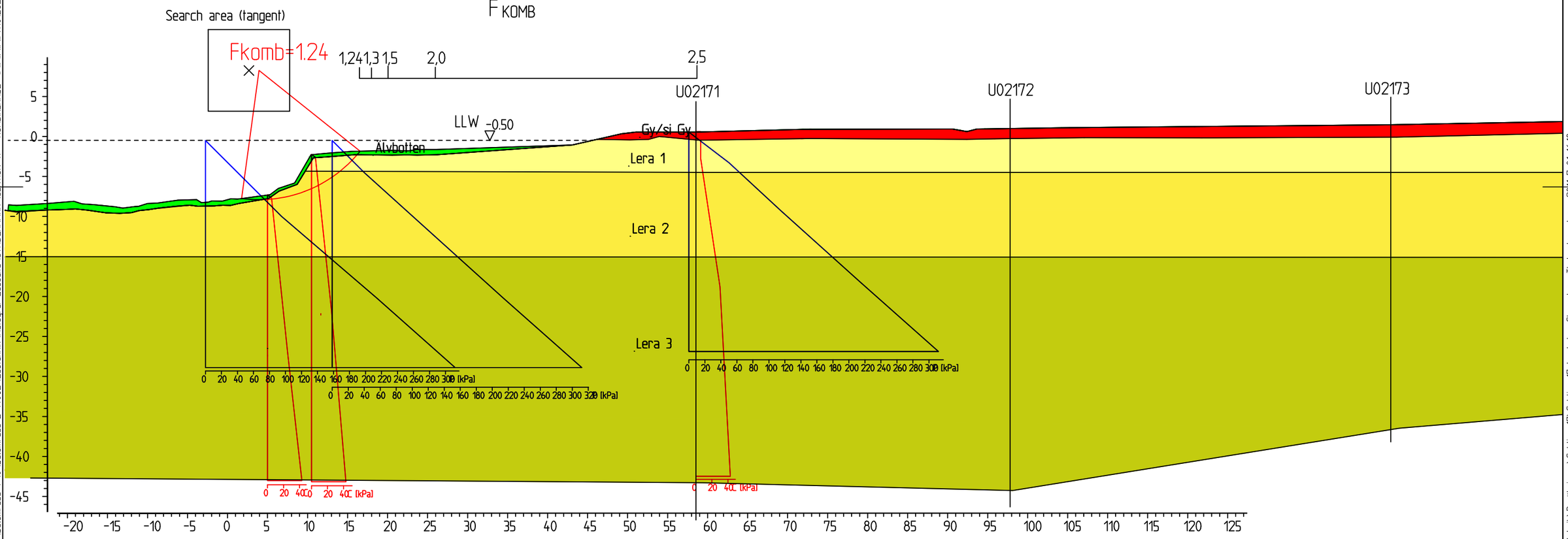
Ritning: O:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 17\Sektion 17_odränerad.dwg Skapad av: Thelander Jonas 2011 7 01 16:20

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 17 - kombinerad2.R4



F KOMB

Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Älvbotten	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Gy/si Gy	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Lera 1	14.30	30.0	10%	C-prof	1.00	1.00	1.00
Lera 2	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Lera 3	16.00	30.0	10%	C-prof	1.00	1.00	1.00



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

KOMBINERAD ANALYS

SEKTION 17, (KM 69/000 V)

SKALA 1:500 (A3)

2011-06-30

o:\106278\110126_do2\gäu delområde 2\...\sektion 17.dwg

XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\SEKTION 17 - KOMBINERAD2 ...\...\...\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRA

Ritning: O:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 17\Sektion 17_kombi.dwg Skapad av: Thelander Jonas 2011 7 01 16:18

Göta älvutredningen 2009-2013
Delområde: 2
Sektion 19, KM V67/620
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-09-23
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 19 Odränerad.gsz

Skala 1:500 (A3)

Name: Älvlera1
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 7 kPa
C-Rate of Change: 2.76 kPa/m
Limiting C: 15 kPa

Name: Älvlera2
Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 15 kPa
C-Rate of Change: 1.43 kPa/m
Limiting C: 25 kPa

Name: Lera2 Lägre
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 11.5 kPa
C-Rate of Change: 0.65 kPa/m
Limiting C: 0 kPa

Name: Lera3 Lägre
Model: S=f(datum)
Unit Weight: 16 kN/m³
C-Datum: 18 kPa
C-Rate of Change: 1.2 kPa/m
Limiting C: 0 kPa
Elevation: -15 m

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

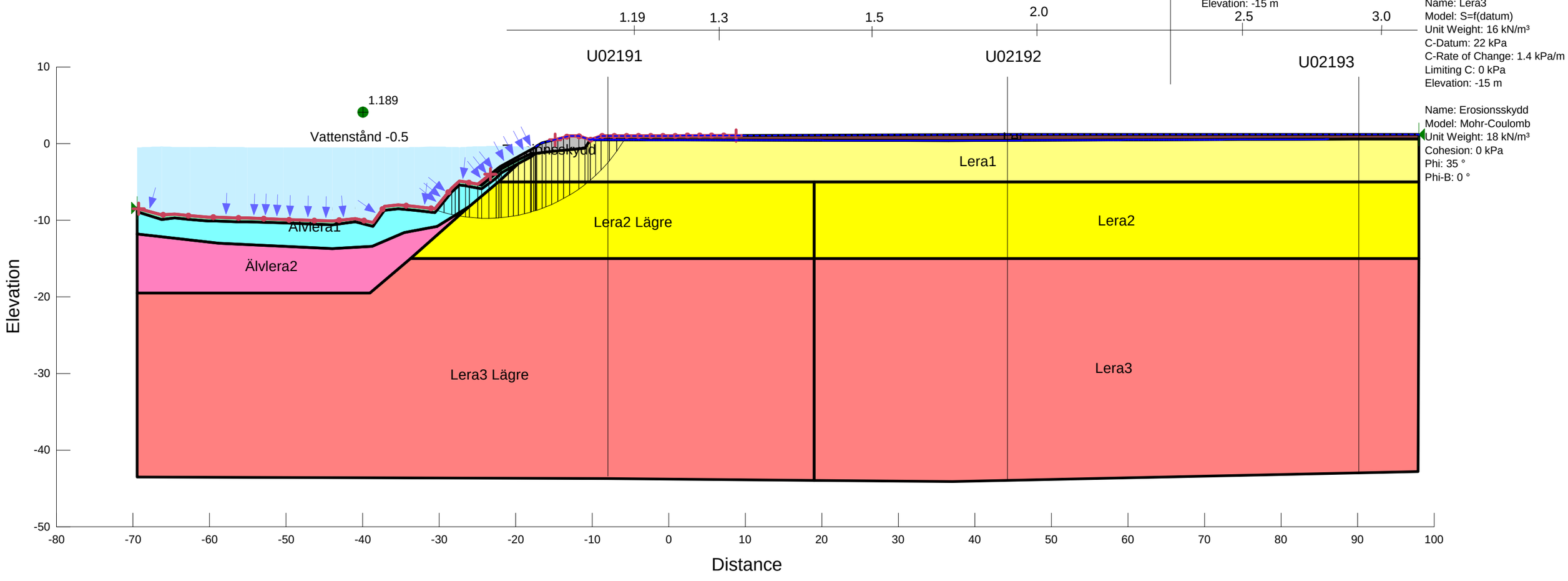
Name: Älvbotten
Model: S=f(depth)
Unit Weight: 14 kN/m³
C-Top of Layer: 0 kPa
C-Rate of Change: 14 kPa/m
Limiting C: 0 kPa

Name: Lera1
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 11.5 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa

Name: Lera2
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 11.5 kPa
C-Rate of Change: 1.05 kPa/m
Limiting C: 0 kPa

Name: Lera3
Model: S=f(datum)
Unit Weight: 16 kN/m³
C-Datum: 22 kPa
C-Rate of Change: 1.4 kPa/m
Limiting C: 0 kPa
Elevation: -15 m

Name: Erosionsskydd
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °
Phi-B: 0 °

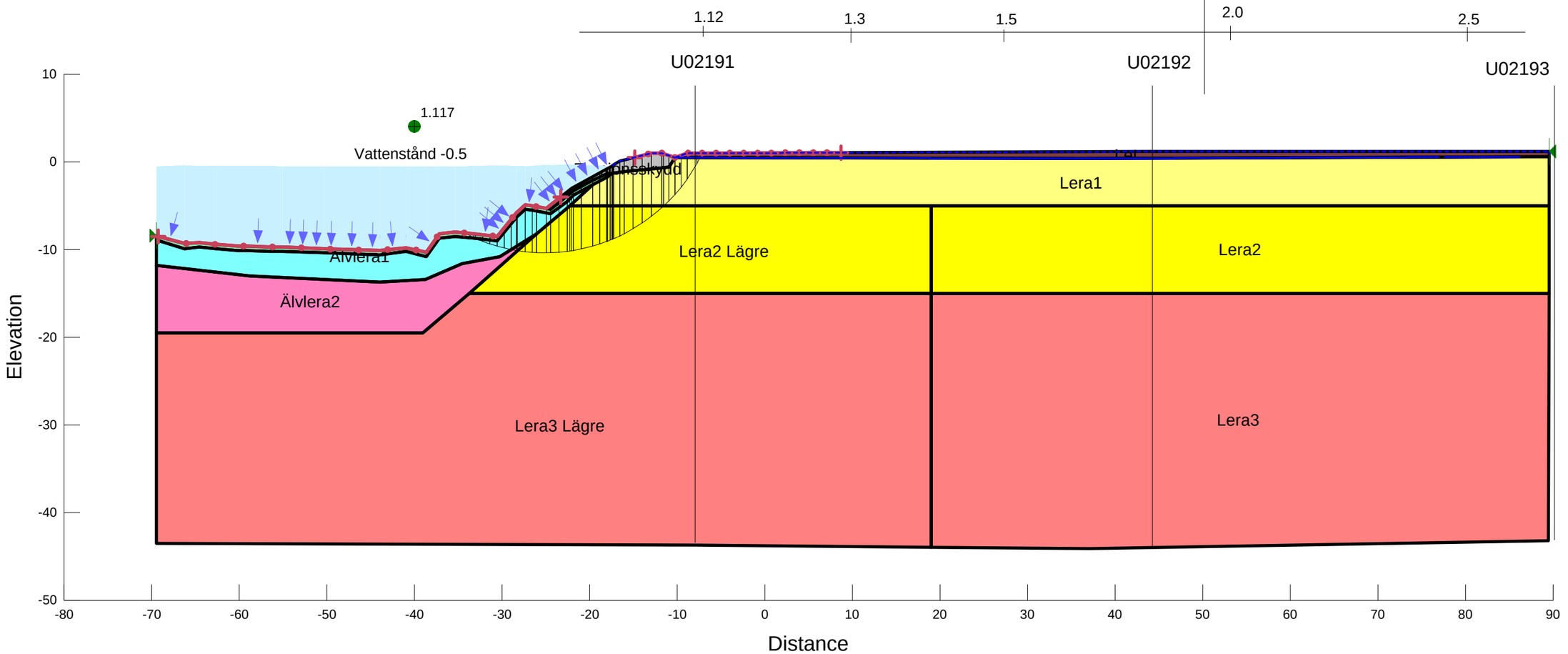


Bilaga 1:8

Göta älvutredningen 2009-2013
Delområde: 2
Sektion 19, KM V67/620
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-09-26
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 19 Kombinerad.gsz

Skala 1:500 (A3)



Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.7 kPa
C-Rate of Change: 0.276 kPa/m
Cu-Top of Layer: 7 kPa
Cu-Rate of Change: 2.76 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.5 kPa
C-Rate of Change: 0.143 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 1.43 kPa/m
C/Cu Ratio: 0.1

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.4 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 14 kPa/m
C/Cu Ratio: 0.1

Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.15 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 11.5 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Lera2
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.15 kPa
C-Rate of Change: 0.105 kPa/m
Cu-Top of Layer: 11.5 kPa
Cu-Rate of Change: 1.05 kPa/m
C/Cu Ratio: 0.1

Name: Lera3
Model: Combined, S=f(datum)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Datum: 2.2 kPa
C-Rate of Change: 0.14 kPa/m
Cu-Datum: 22 kPa
Cu-Rate of Change: 1.4 kPa/m
C/Cu Ratio: 0.1
Elevation: -15 m

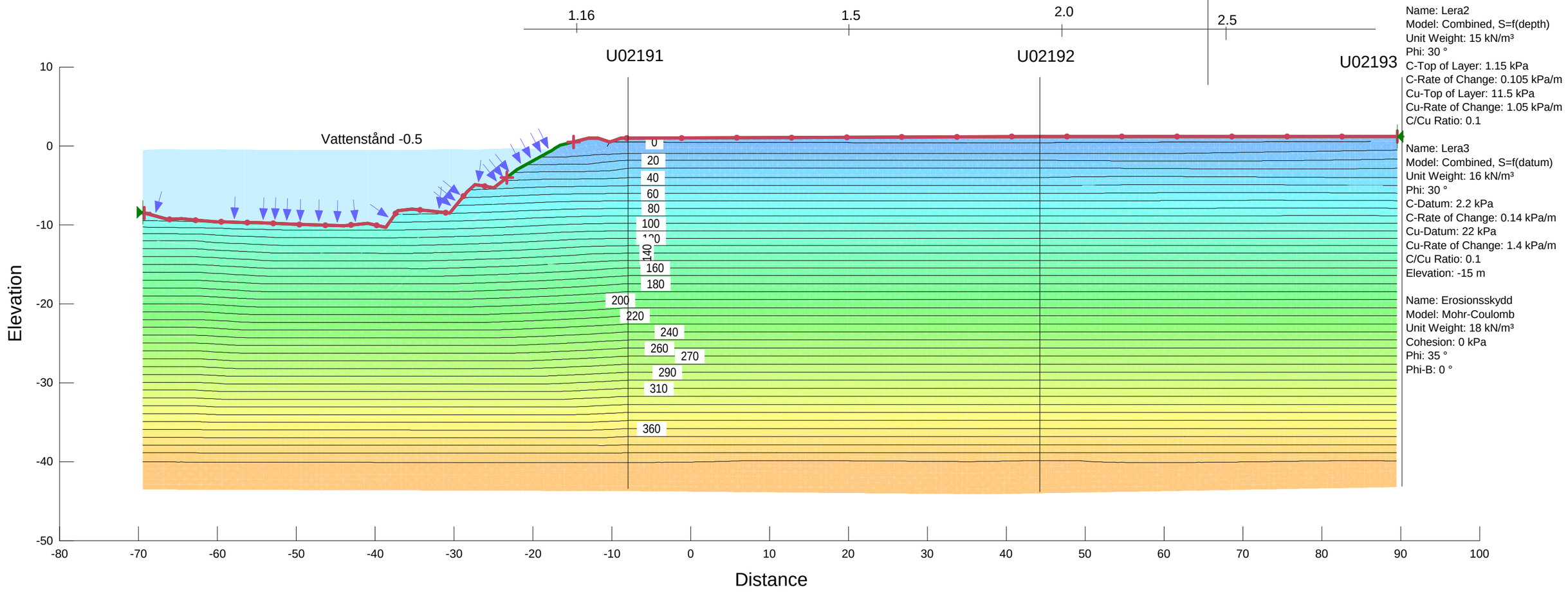
Name: Lera2 Lägre
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.15 kPa
C-Rate of Change: 0.065 kPa/m
Cu-Top of Layer: 11.5 kPa
Cu-Rate of Change: 0.65 kPa/m
C/Cu Ratio: 0.1

Name: Lera3 Lägre
Model: Combined, S=f(datum)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Datum: 1.8 kPa
C-Rate of Change: 0.12 kPa/m
Cu-Datum: 18 kPa
Cu-Rate of Change: 1.2 kPa/m
C/Cu Ratio: 0.1
Elevation: -15 m
Name: Erosionsskydd
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °
Phi-B: 0 °

Göta älvutredningen 2009-2013
Delområde: 2
Sektion 19, KM V67/620
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-06-30
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 19 Kombinerad.gsz

Skala 1:500 (A3)



Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.7 kPa
C-Rate of Change: 0.276 kPa/m
Cu-Top of Layer: 7 kPa
Cu-Rate of Change: 2.76 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.5 kPa
C-Rate of Change: 0.143 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 1.43 kPa/m
C/Cu Ratio: 0.1

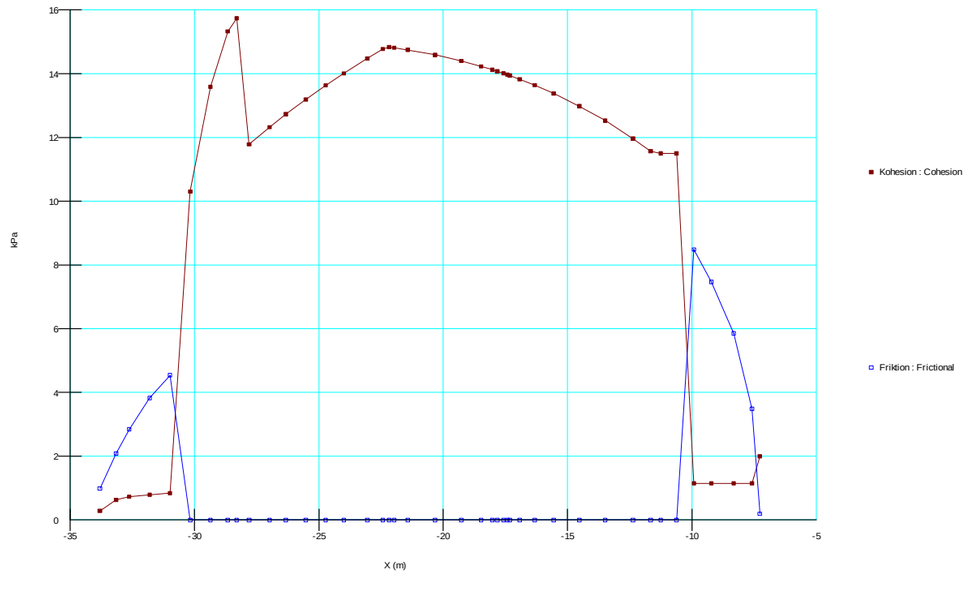
Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.4 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 14 kPa/m
C/Cu Ratio: 0.1

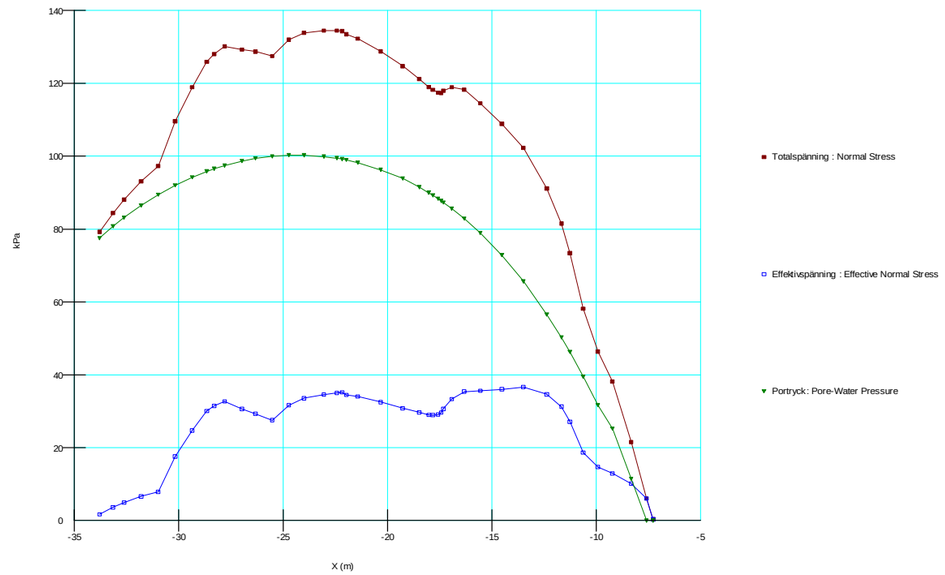
Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.15 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 11.5 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Lera2
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.15 kPa
C-Rate of Change: 0.105 kPa/m
Cu-Top of Layer: 11.5 kPa
Cu-Rate of Change: 1.05 kPa/m
C/Cu Ratio: 0.1

Name: Lera3
Model: Combined, S=f(datum)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Datum: 2.2 kPa
C-Rate of Change: 0.14 kPa/m
Cu-Datum: 22 kPa
Cu-Rate of Change: 1.4 kPa/m
C/Cu Ratio: 0.1
Elevation: -15 m

Name: Erosionsskydd
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °
Phi-B: 0 °


kPa
X (m)
Kohesion : Cohesion
Friktion : Frictional


kPa
X (m)
Totalspänning : Normal Stress
Effektivspänning : Effective Normal Stress
Portryck: Pore-Water Pressure

Göta älvutredningen 2009-2013
Delområde: 2
Sektion 21, KM V66/800
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-06-29
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 21 Odränerad.gsz

SKALA 1:500 (A3)

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvbotten
Model: S=f(depth)
Unit Weight: 14 kN/m³
C-Top of Layer: 0 kPa
C-Rate of Change: 14 kPa/m
Limiting C: 0 kPa

Name: Lera1
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 9.5 kPa
C-Rate of Change: 1 kPa/m
Limiting C: 0 kPa

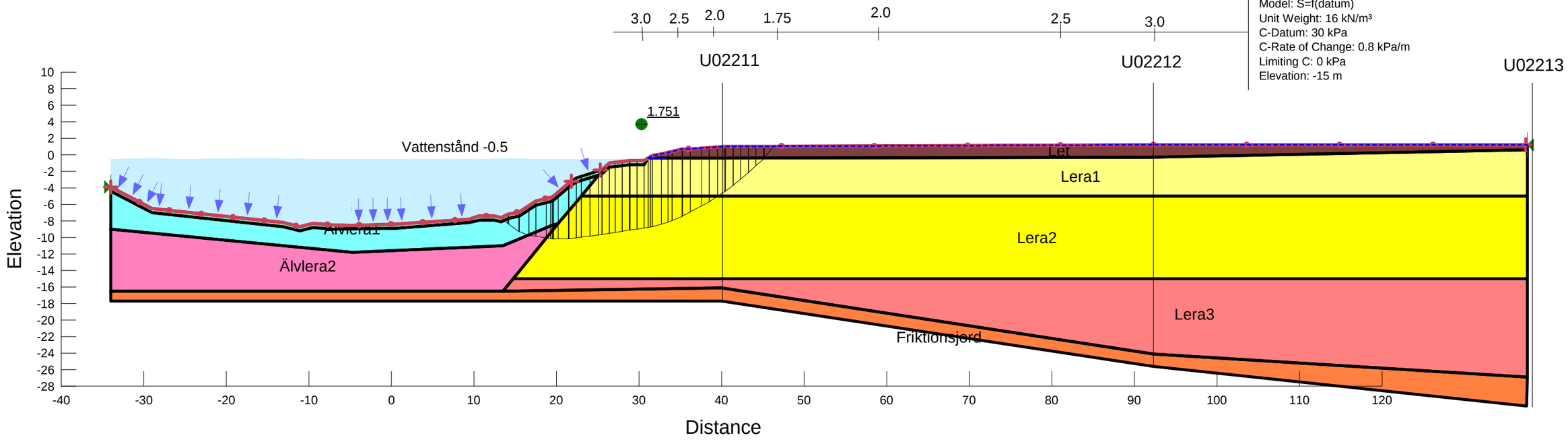
Name: Lera2
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 15 kPa
C-Rate of Change: 1.5 kPa/m
Limiting C: 0 kPa

Name: Lera3
Model: S=f(datum)
Unit Weight: 16 kN/m³
C-Datum: 30 kPa
C-Rate of Change: 0.8 kPa/m
Limiting C: 0 kPa
Elevation: -15 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 34 °
Phi-B: 0 °

Name: Älvlera1
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 7 kPa
C-Rate of Change: 2.76 kPa/m
Limiting C: 15 kPa

Name: Älvlera2
Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 15 kPa
C-Rate of Change: 1.43 kPa/m
Limiting C: 25 kPa



Göta älvutredningen 2009-2013
Delområde: 2
Sektion 21, KM V66/800
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-06-29
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 21 Kombinerad.gsz

SKALA 1:500 (A3)

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.4 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 14 kPa/m
C/Cu Ratio: 0.1

Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.95 kPa
C-Rate of Change: 0.1 kPa/m
Cu-Top of Layer: 9.5 kPa
Cu-Rate of Change: 1 kPa/m
C/Cu Ratio: 0.1

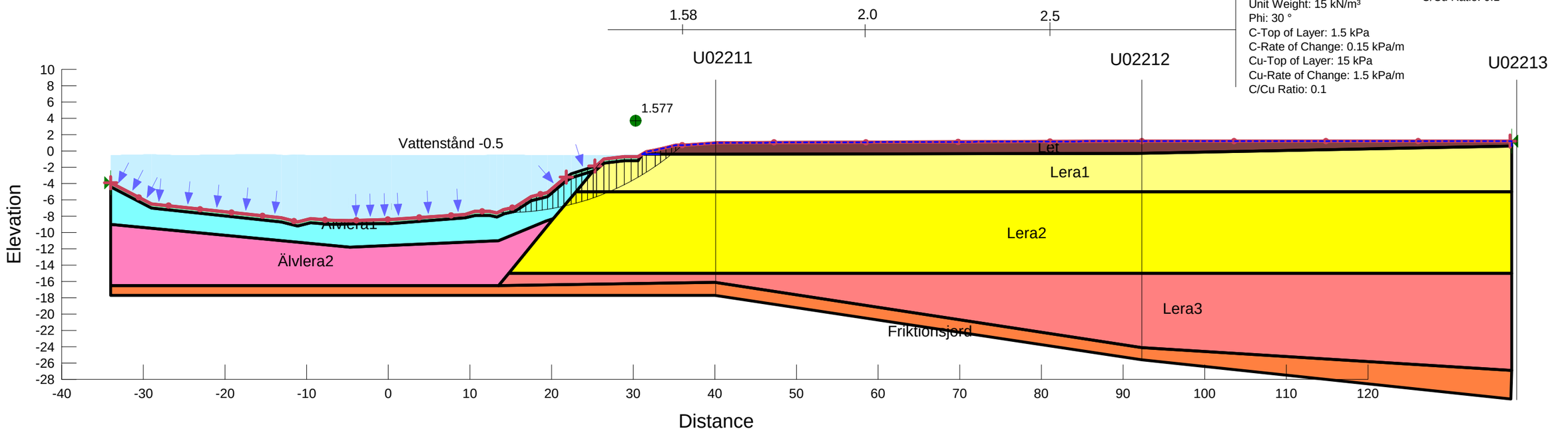
Name: Lera2
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.5 kPa
C-Rate of Change: 0.15 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 1.5 kPa/m
C/Cu Ratio: 0.1

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 34 °
Phi-B: 0 °

Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.7 kPa
C-Rate of Change: 0.275 kPa/m
Cu-Top of Layer: 7 kPa
Cu-Rate of Change: 2.75 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.5 kPa
C-Rate of Change: 0.143 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 1.43 kPa/m
C/Cu Ratio: 0.1

Name: Lera3
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 3 kPa
C-Rate of Change: 0.08 kPa/m
Cu-Top of Layer: 30 kPa
Cu-Rate of Change: 0.8 kPa/m
C/Cu Ratio: 0.1



Göta älvutredningen 2009-2013
Delområde: 2
Sektion 21, KM V66/800
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-06-29
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 21 Kombinerad.gsz

SKALA 1:500 (A3)

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.4 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 14 kPa/m
C/Cu Ratio: 0.1

Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.95 kPa
C-Rate of Change: 0.1 kPa/m
Cu-Top of Layer: 9.5 kPa
Cu-Rate of Change: 1 kPa/m
C/Cu Ratio: 0.1

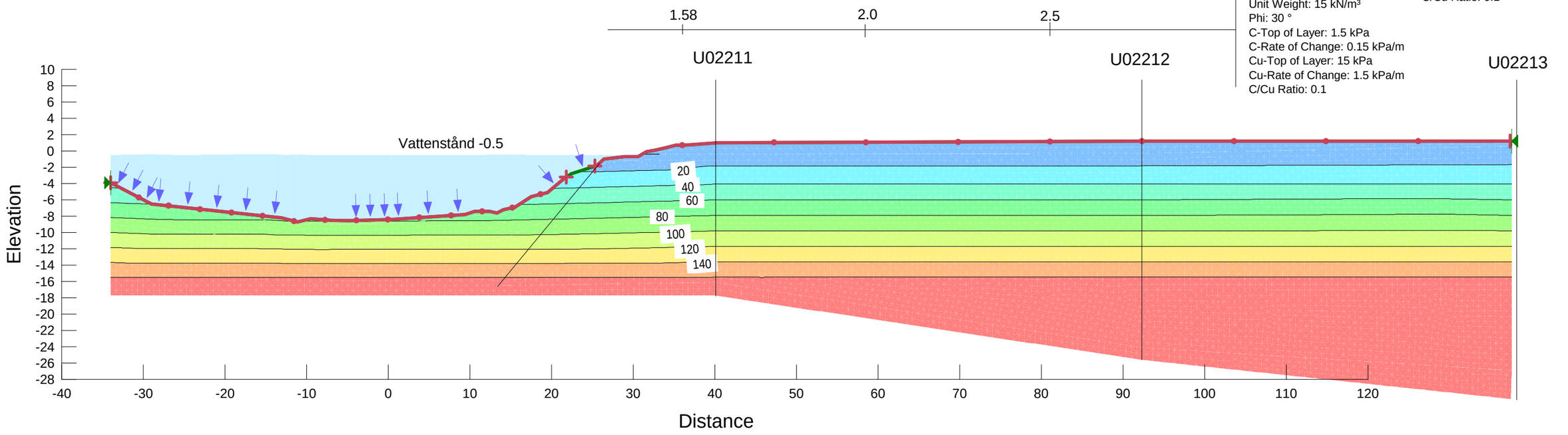
Name: Lera2
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.5 kPa
C-Rate of Change: 0.15 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 1.5 kPa/m
C/Cu Ratio: 0.1

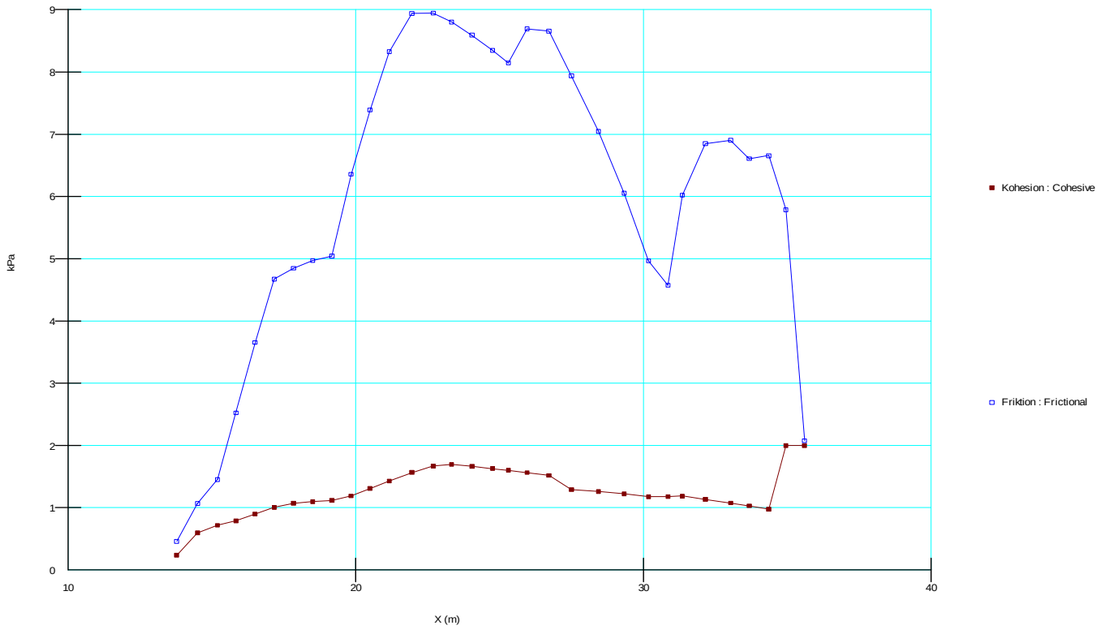
Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 34 °
Phi-B: 0 °

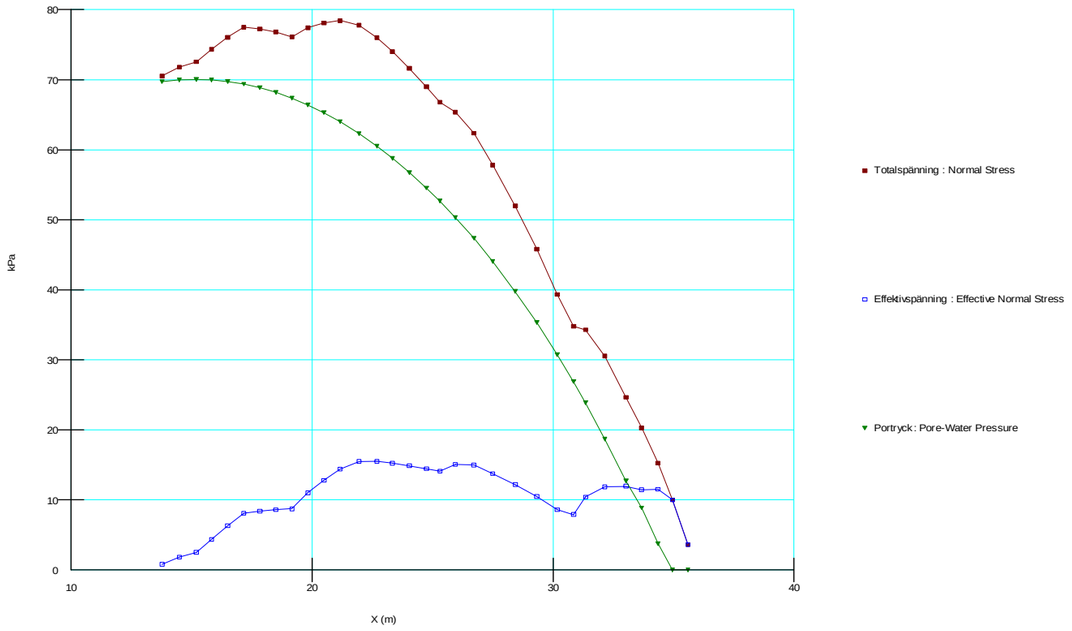
Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.7 kPa
C-Rate of Change: 0.275 kPa/m
Cu-Top of Layer: 7 kPa
Cu-Rate of Change: 2.75 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.5 kPa
C-Rate of Change: 0.143 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 1.43 kPa/m
C/Cu Ratio: 0.1

Name: Lera3
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 3 kPa
C-Rate of Change: 0.08 kPa/m
Cu-Top of Layer: 30 kPa
Cu-Rate of Change: 0.8 kPa/m
C/Cu Ratio: 0.1




kPa
X (m)
Kohesion : Cohesive
Friktion : Frictional


kPa
X (m)
Totalspänning : Normal Stress
Effektivspänning : Effective Normal Stress
Portryck : Pore-Water Pressure

Bilaga 1:15

SKALA 1:500 (A3)

Göta älvutredningen 2009-2013
Delområde: 2
Sektion 25, KM N101/320
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-06-27
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 25 Odränerad.gsz

Name: Ytlager Sand/grus
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
Phi-B: 0 °

Name: Älvbotten
Model: S=f(depth)
Unit Weight: 14 kN/m³
C-Top of Layer: 0 kPa
C-Rate of Change: 16 kPa/m
Limiting C: 16 kPa

Name: Lera1
Model: Undrained (Phi=0)
Unit Weight: 15 kN/m³
Cohesion: 13 kPa

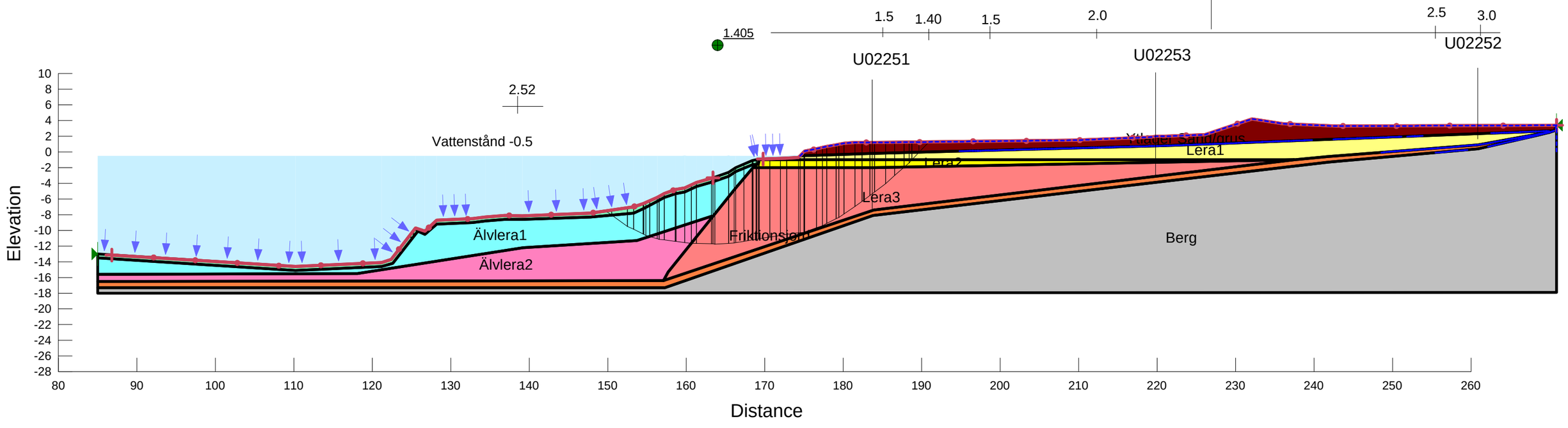
Name: Lera2
Model: S=f(datum)
Unit Weight: 15 kN/m³
C-Datum: 13 kPa
C-Rate of Change: -4 kPa/m
Limiting C: 0 kPa
Elevation: -1 m

Name: Lera3
Model: S=f(datum)
Unit Weight: 16 kN/m³
C-Datum: 9 kPa
C-Rate of Change: 1.125 kPa/m
Limiting C: 0 kPa
Elevation: -2 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
Phi-B: 0 °

Name: Älvlera1
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 8 kPa
C-Rate of Change: 1.7 kPa/m
Limiting C: 14 kPa

Name: Älvlera2
Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 14 kPa
C-Rate of Change: 1.46 kPa/m
Limiting C: 23.5 kPa



Göta älvutredningen 2009-2013
Delområde: 2
Sektion 25, KM N101/320
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-07-05
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 25 Kombinerad.gsz

Name: Ytlager
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
Phi-B: 0 °

Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.6 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 16 kPa/m
C/Cu Ratio: 0.1

Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.3 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 13 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

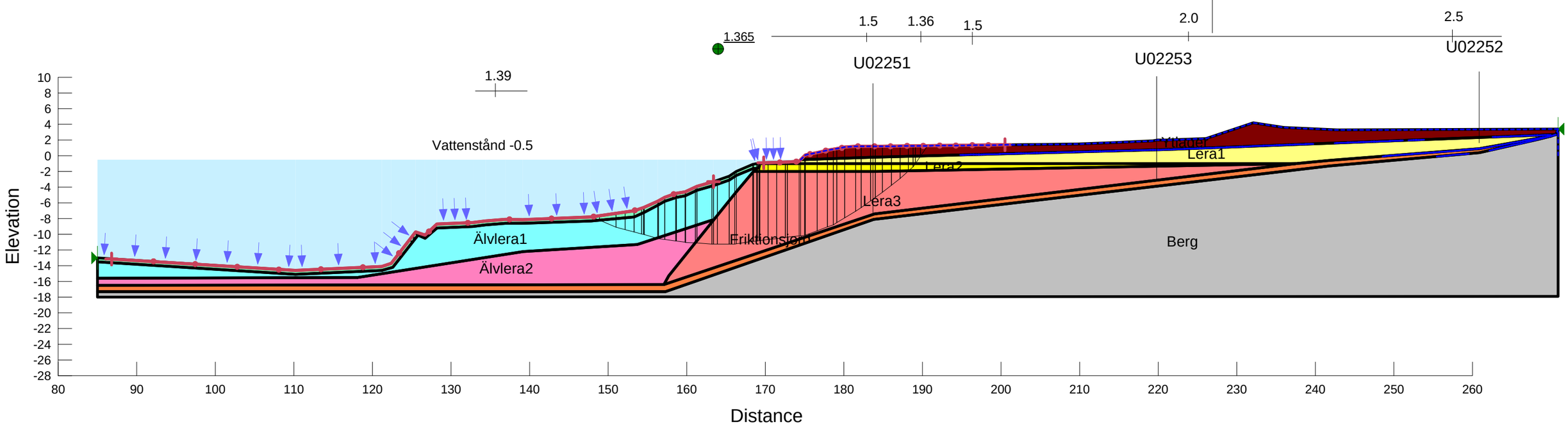
Name: Lera2
Model: Combined, S=f(datum)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Datum: 1.3 kPa
C-Rate of Change: -0.4 kPa/m
Cu-Datum: 13 kPa
Cu-Rate of Change: -4 kPa/m
C/Cu Ratio: 0.1
Elevation: -1 m

Name: Lera3
Model: Combined, S=f(datum)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Datum: 0.9 kPa
C-Rate of Change: 0.1125 kPa/m
Cu-Datum: 9 kPa
Cu-Rate of Change: 1.125 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
Phi-B: 0 °

Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.17 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 1.7 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.4 kPa
C-Rate of Change: 0.146 kPa/m
Cu-Top of Layer: 14 kPa
Cu-Rate of Change: 1.46 kPa/m
C/Cu Ratio: 0.1



Bilaga 1:17
SKALA 1:500 (A3)

Göta älvutredningen 2009-2013
Delområde: 2
Sektion 25, KM N101/320
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-06-28
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 25 Kombinerad.gsz

Name: Ytlager
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
Phi-B: 0 °

Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.6 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 16 kPa/m
C/Cu Ratio: 0.1

Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.3 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 13 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

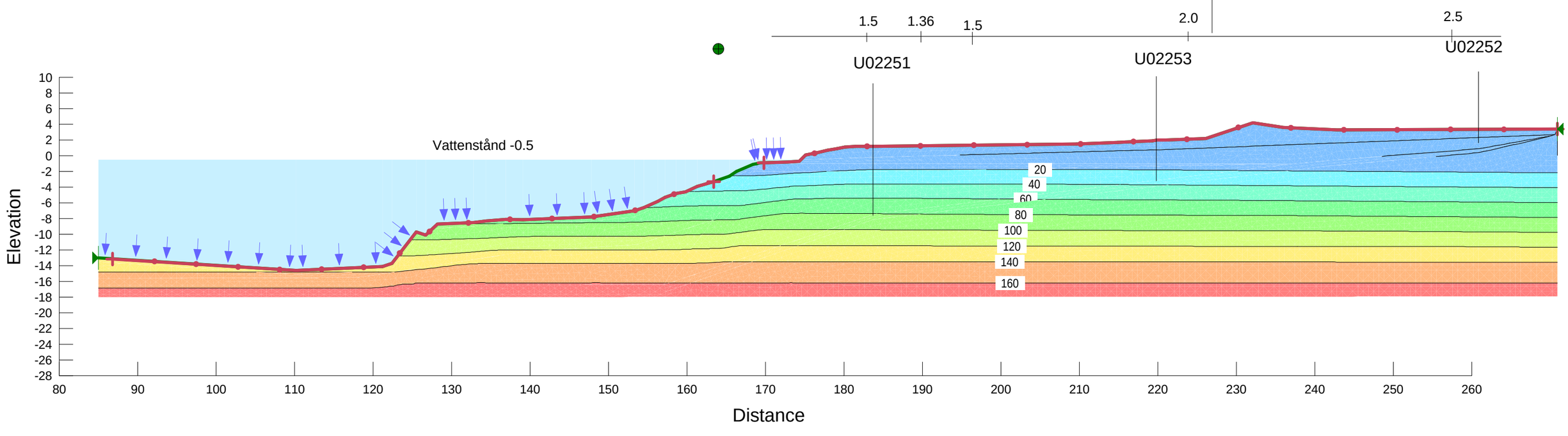
Name: Lera2
Model: Combined, S=f(datum)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Datum: 1.3 kPa
C-Rate of Change: -0.4 kPa/m
Cu-Datum: 13 kPa
Cu-Rate of Change: -4 kPa/m
C/Cu Ratio: 0.1
Elevation: -1 m

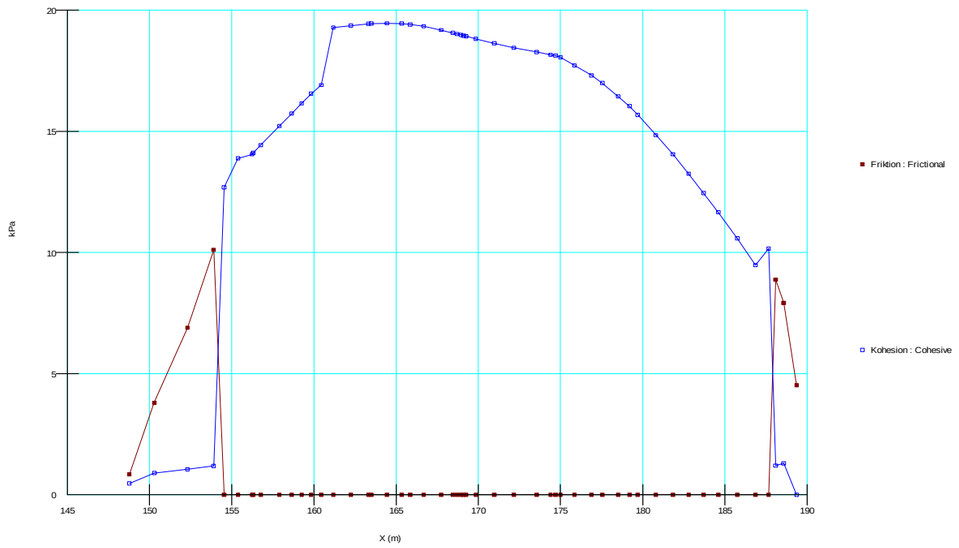
Name: Lera3
Model: Combined, S=f(datum)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Datum: 0.9 kPa
C-Rate of Change: 0.1125 kPa/m
Cu-Datum: 9 kPa
Cu-Rate of Change: 1.125 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

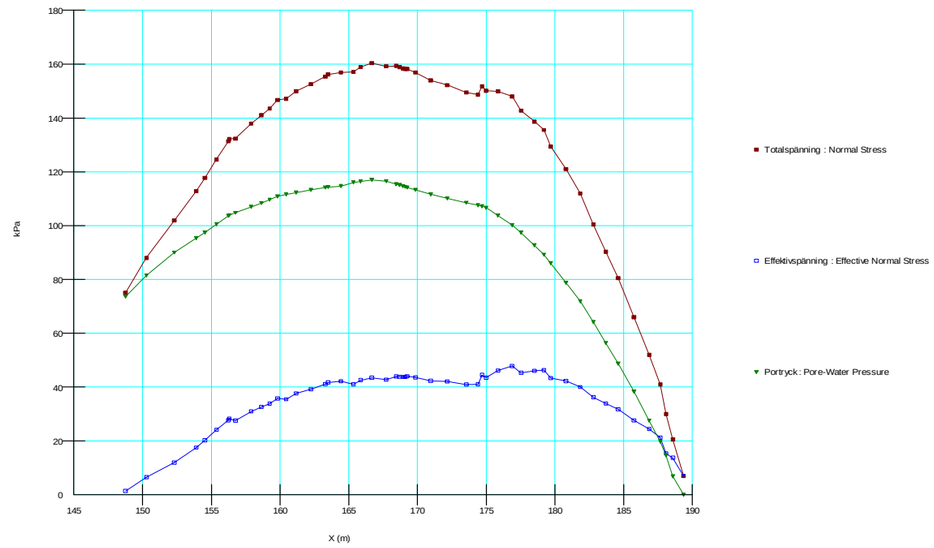
Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
Phi-B: 0 °

Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.17 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 1.7 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.4 kPa
C-Rate of Change: 0.146 kPa/m
Cu-Top of Layer: 14 kPa
Cu-Rate of Change: 1.46 kPa/m
C/Cu Ratio: 0.1




kPa
X (m)
Friktion : Frictional
Kohesion : Cohesive


kPa
X (m)
Totalspänning : Normal Stress
Effektivspänning : Effective Normal Stress
Portryck : Pore-Water Pressure

Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 101/940 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-06-30
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)

Name: Torrskorpa/Fast ytlager
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 32 °

Name: Lera 1
Model: S=f(datum)
Unit Weight: 14.8 kN/m³
C-Datum: 5.3 kPa
C-Rate of Change: 0.89 kPa/m
Limiting C: 0 kPa
Elevation: 1 m

Name: Lera 2
Model: S=f(datum)
Unit Weight: 15.4 kN/m³
C-Datum: 8 kPa
C-Rate of Change: 0.89 kPa/m
Limiting C: 0 kPa
Elevation: -2 m

Name: Lera 3
Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 8 kPa
C-Rate of Change: 0.89 kPa/m
Limiting C: 0 kPa
Elevation: -2 m

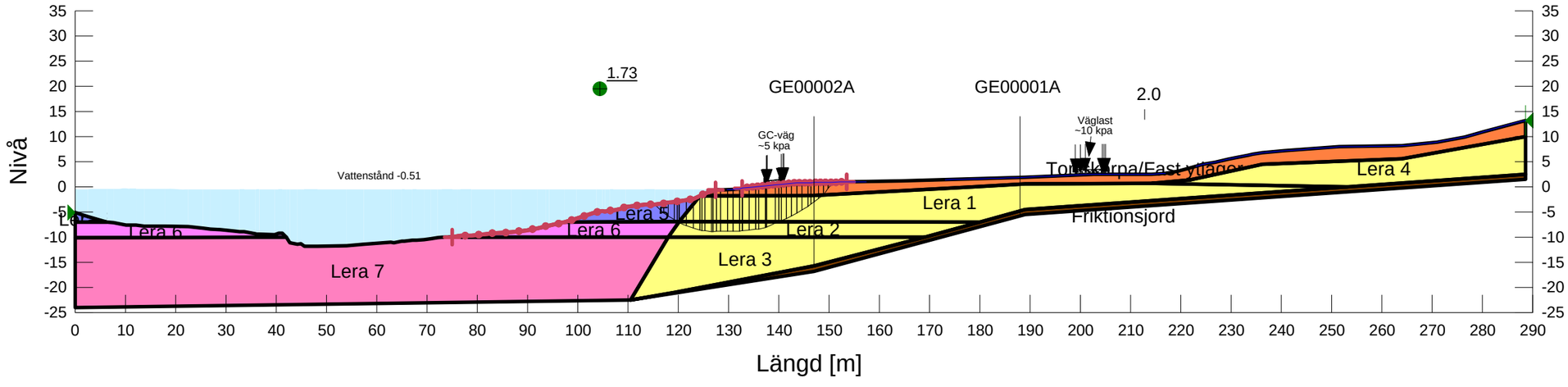
Name: Lera 4
Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 10 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa

Name: Lera 5
Model: S=f(datum)
Unit Weight: 14.8 kN/m³
C-Datum: 3.6 kPa
C-Rate of Change: 1.13 kPa/m
Limiting C: 0 kPa
Elevation: -2 m

Name: Lera 6
Model: S=f(datum)
Unit Weight: 15.4 kN/m³
C-Datum: 3.6 kPa
C-Rate of Change: 1.13 kPa/m
Limiting C: 0 kPa
Elevation: -2 m

Name: Lera 7
Model: S=f(datum)
Unit Weight: 17 kN/m³
C-Datum: 3.6 kPa
C-Rate of Change: 1.13 kPa/m
Limiting C: 0 kPa
Elevation: -2 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °



Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 28\
File Name: KM 101_940 N Sekt 28 c+phi.gsz

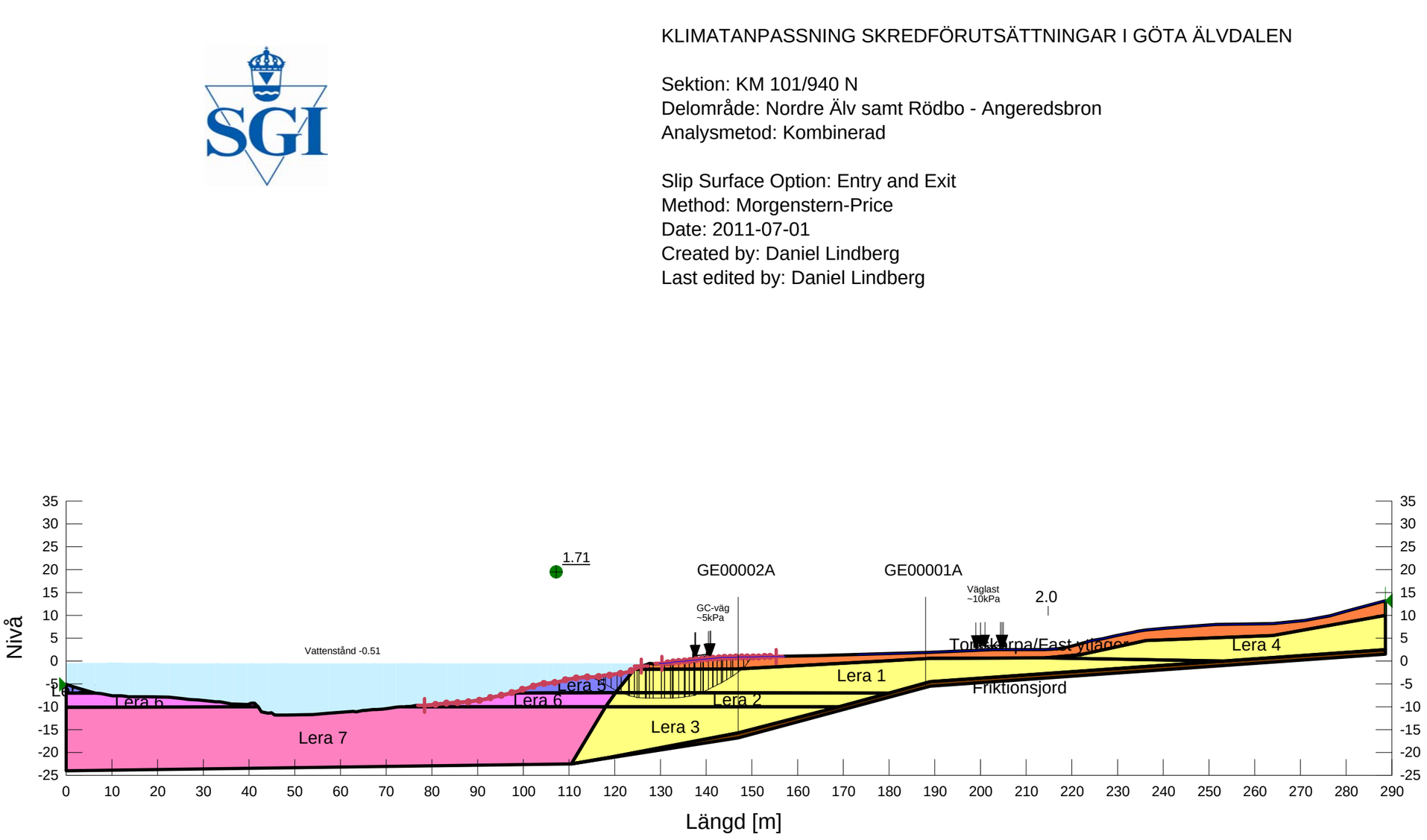
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 101/940 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 32 °

Name: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Datum: 0.53 kPa
C-Rate of Change: 0.089 kPa/m
Cu-Datum: 5.3 kPa
Cu-Rate of Change: 0.89 kPa/m
C/Cu Ratio: 0.1
Elevation: 1 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.8 kPa
C-Rate of Change: 0.089 kPa/m
Cu-Datum: 8 kPa
Cu-Rate of Change: 0.89 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0.8 kPa
C-Rate of Change: 0.089 kPa/m
Cu-Datum: 8 kPa
Cu-Rate of Change: 0.89 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Lera 4
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 10 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Datum: 0.36 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 3.6 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Lera 6
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.36 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 3.6 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Lera 7
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0.36 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 3.6 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 28\
File Name: KM 101_940 N Sekt 28 kombinerad.gsz

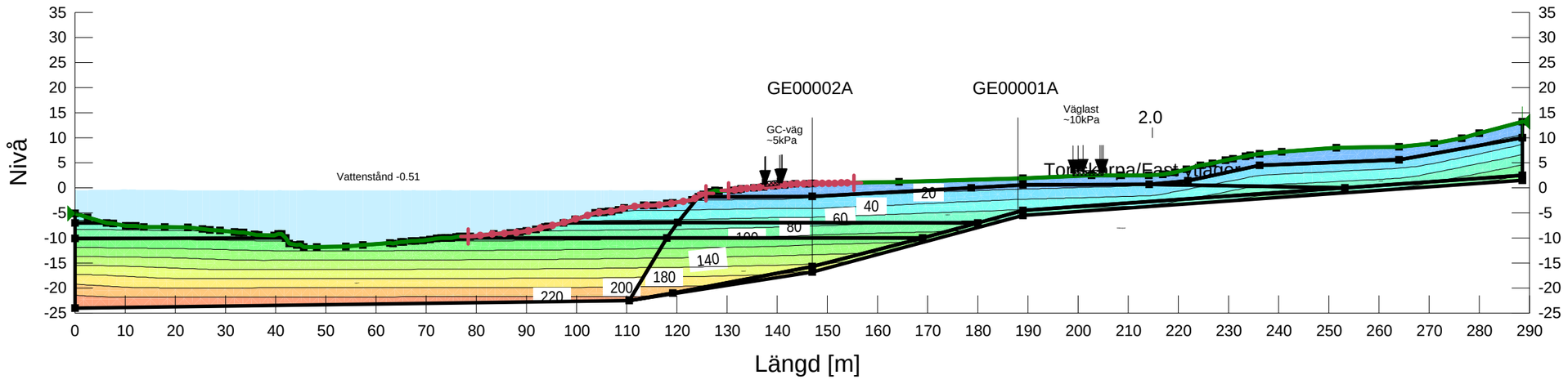
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 101/940 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-10-05
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 32 °

Name: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Datum: 0.53 kPa
C-Rate of Change: 0.089 kPa/m
Cu-Datum: 5.3 kPa
Cu-Rate of Change: 0.89 kPa/m
C/Cu Ratio: 0.1
Elevation: 1 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.8 kPa
C-Rate of Change: 0.089 kPa/m
Cu-Datum: 8 kPa
Cu-Rate of Change: 0.89 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0.8 kPa
C-Rate of Change: 0.089 kPa/m
Cu-Datum: 8 kPa
Cu-Rate of Change: 0.89 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Lera 4
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 10 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Datum: 0.36 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 3.6 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Lera 6
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.36 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 3.6 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

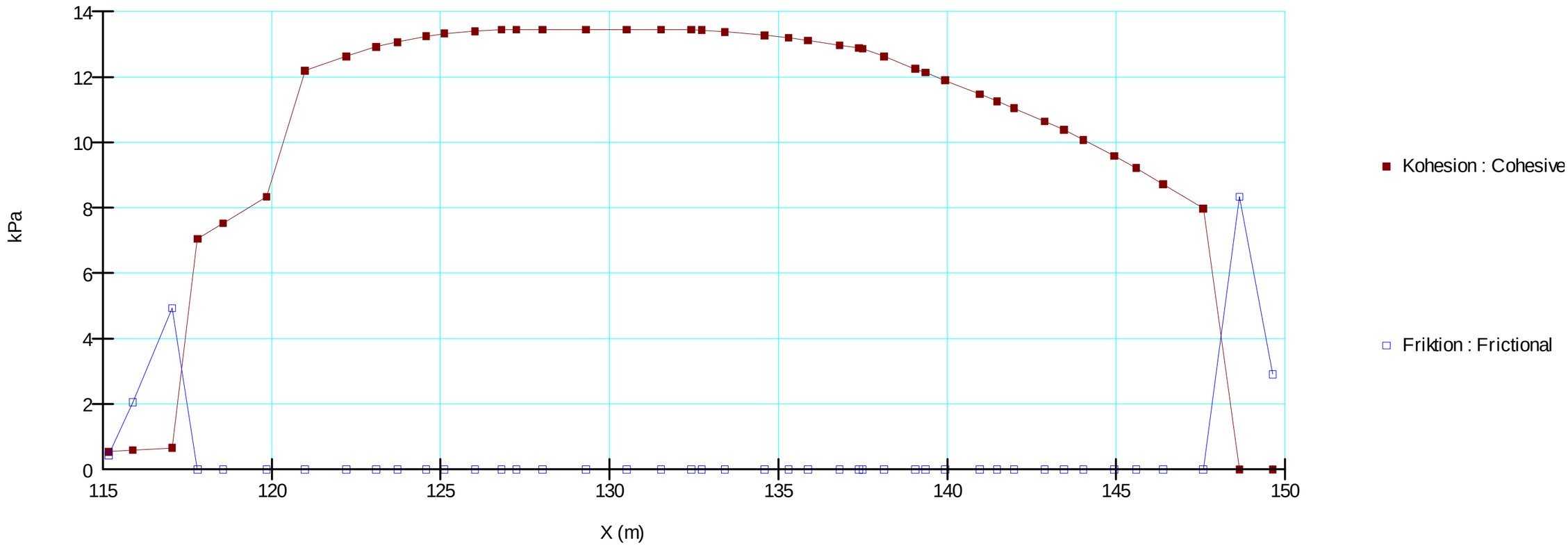
Name: Lera 7
Model: Combined, S=f(datum)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Datum: 0.36 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 3.6 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -2 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 28\
File Name: KM 101_940 N Sekt 28 kombinerad.gsz

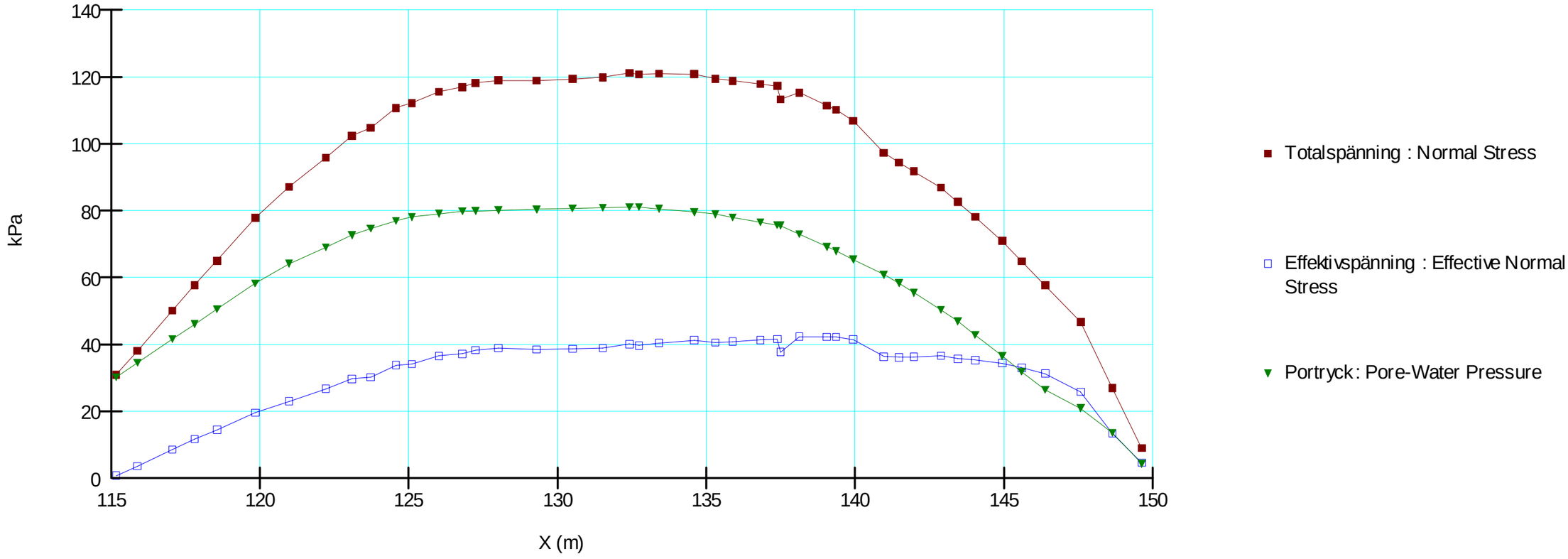
Sektion 28, KM 101/940 N

Kohesion och friktion (Kombinerad analys)



Sektion 28, KM 101/940 N

Spänningar (Kombinerad analys)



Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 102/870 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-06-27
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)

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

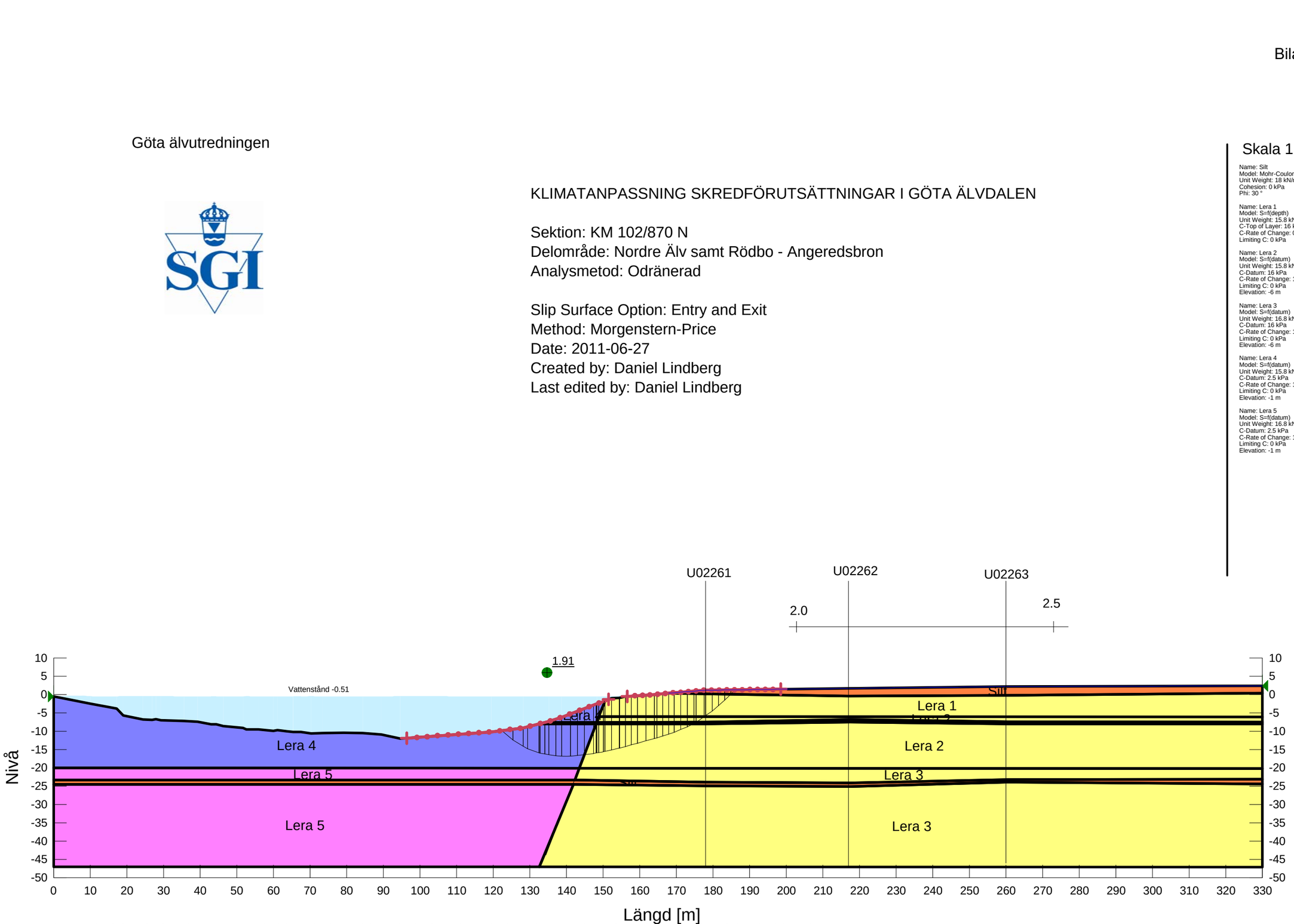
Name: Lera 1
Model: S=f(depth)
Unit Weight: 15.8 kN/m³
C-Top of Layer: 16 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa

Name: Lera 2
Model: S=f(datum)
Unit Weight: 15.8 kN/m³
C-Datum: 16 kPa
C-Rate of Change: 1.55 kPa/m
Limiting C: 0 kPa
Elevation: -6 m

Name: Lera 3
Model: S=f(datum)
Unit Weight: 16.8 kN/m³
C-Datum: 16 kPa
C-Rate of Change: 1.55 kPa/m
Limiting C: 0 kPa
Elevation: -6 m

Name: Lera 4
Model: S=f(datum)
Unit Weight: 15.8 kN/m³
C-Datum: 2.5 kPa
C-Rate of Change: 1.13 kPa/m
Limiting C: 0 kPa
Elevation: -1 m

Name: Lera 5
Model: S=f(datum)
Unit Weight: 16.8 kN/m³
C-Datum: 2.5 kPa
C-Rate of Change: 1.13 kPa/m
Limiting C: 0 kPa
Elevation: -1 m



Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 26\
File Name: KM 102_870 N Sekt 26 c+phi.gsz

Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 102/870 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-10-05
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)

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

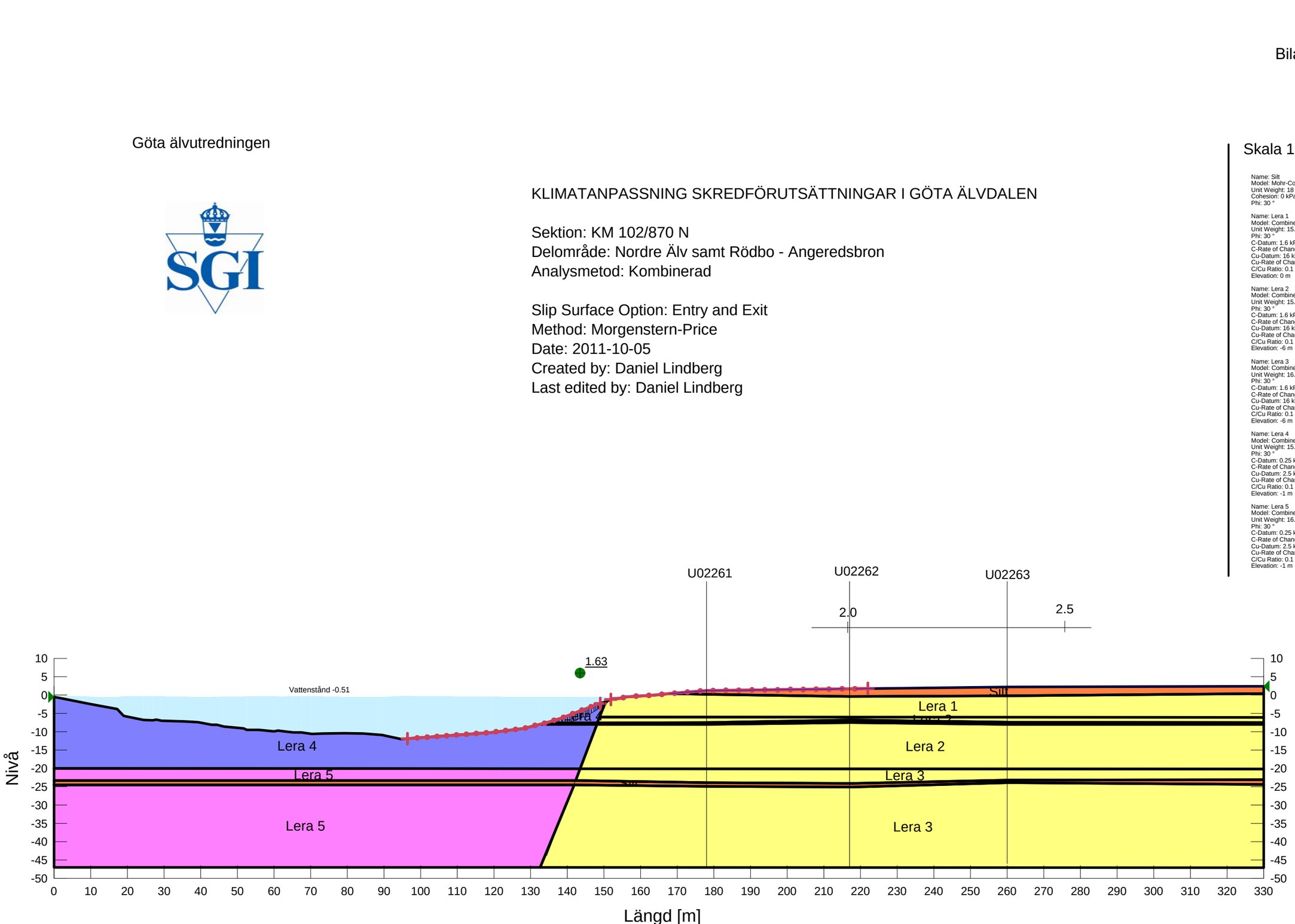
Name: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 1.6 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 16 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 1.6 kPa
C-Rate of Change: 0.155 kPa/m
Cu-Datum: 16 kPa
Cu-Rate of Change: 1.55 kPa/m
C/Cu Ratio: 0.1
Elevation: -6 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 1.6 kPa
C-Rate of Change: 0.155 kPa/m
Cu-Datum: 16 kPa
Cu-Rate of Change: 1.55 kPa/m
C/Cu Ratio: 0.1
Elevation: -6 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.25 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 2.5 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -1 m

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 0.25 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 2.5 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -1 m



Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 26\
File Name: KM 102_870 N Sekt 26 kombinerad-20111005.gsz

Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 102/870 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-10-05
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)

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

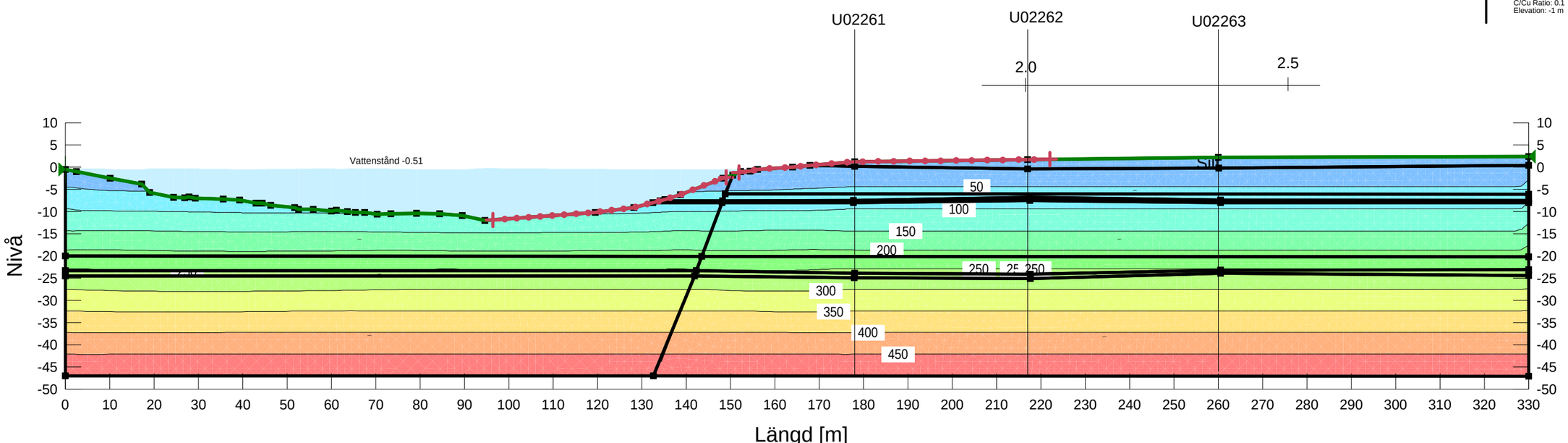
Name: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 1.6 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 16 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 1.6 kPa
C-Rate of Change: 0.155 kPa/m
Cu-Datum: 16 kPa
Cu-Rate of Change: 1.55 kPa/m
C/Cu Ratio: 0.1
Elevation: -6 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 1.6 kPa
C-Rate of Change: 0.155 kPa/m
Cu-Datum: 16 kPa
Cu-Rate of Change: 1.55 kPa/m
C/Cu Ratio: 0.1
Elevation: -6 m

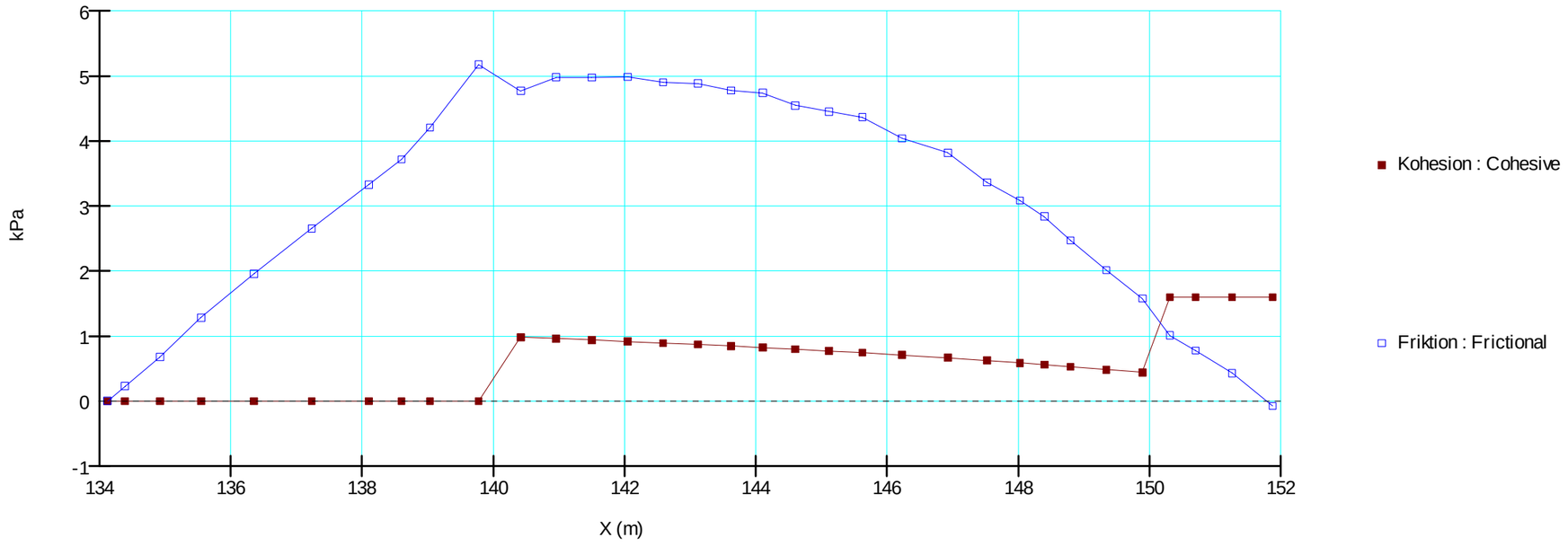
Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.25 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 2.5 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -1 m

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 0.25 kPa
C-Rate of Change: 0.113 kPa/m
Cu-Datum: 2.5 kPa
Cu-Rate of Change: 1.13 kPa/m
C/Cu Ratio: 0.1
Elevation: -1 m

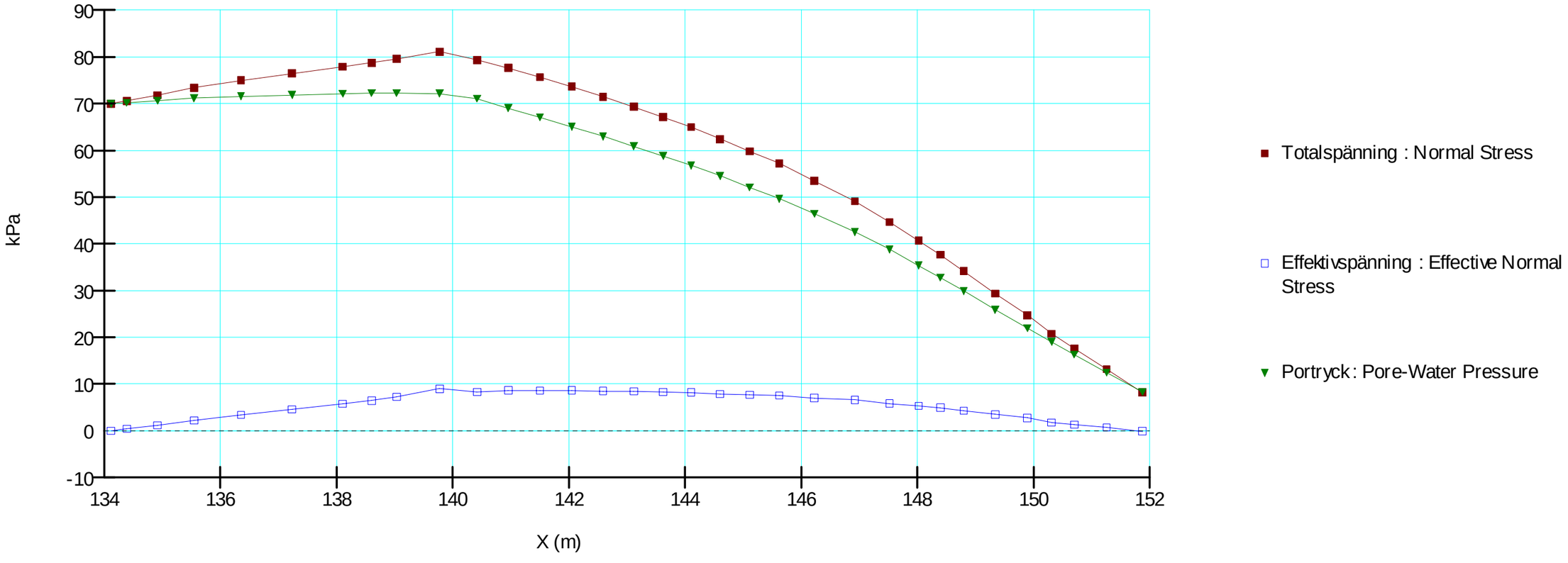


Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 26\
File Name: KM 102_870 N Sekt 26 kombinerad-20111005.gsz

Sektion 26, KM 102/870 N
Kohesion och friktion (Kombinerad analys)



Sektion 26, KM 102/870 N
Spänningar (Kombinerad analys)



Göta älvutredningen 2009-2013
Delområde: 2
Sektion 29, KM N103/860
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-07-04
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 29 Odränerad.gsz

SKALA 1:1000 (A3)

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvbotten
Model: S=f(depth)
Unit Weight: 14 kN/m³
C-Top of Layer: 0 kPa
C-Rate of Change: 16 kPa/m
Limiting C: 0 kPa

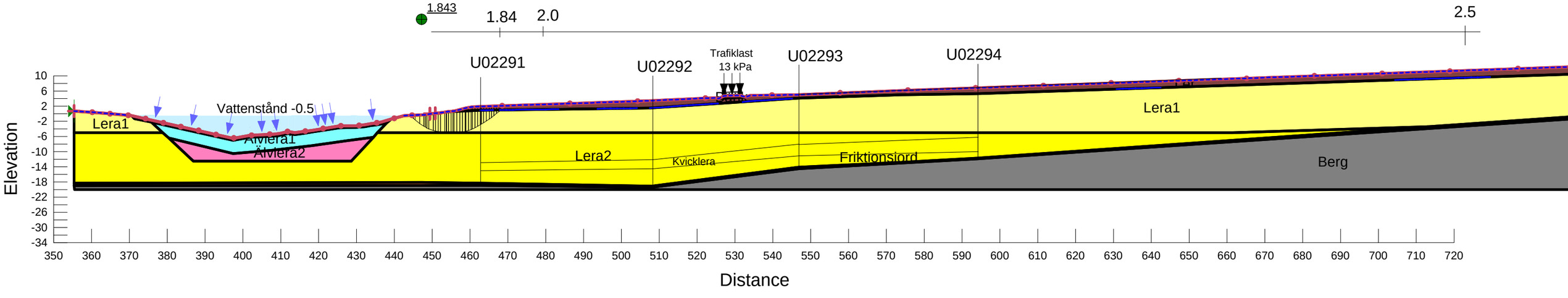
Name: Lera1
Model: S=f(depth)
Unit Weight: 15.5 kN/m³
C-Top of Layer: 8.5 kPa
C-Rate of Change: 0.671 kPa/m
Limiting C: 0 kPa

Name: Lera2
Model: S=f(datum)
Unit Weight: 15.5 kN/m³
C-Datum: 14.5 kPa
C-Rate of Change: 1.58 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 34 °
Phi-B: 0 °

Name: Älvlera1
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 8 kPa
C-Rate of Change: 1.7 kPa/m
Limiting C: 14 kPa

Name: Älvlera2
Model: S=f(depth)
Unit Weight: 15 kN/m³
C-Top of Layer: 14 kPa
C-Rate of Change: 1.46 kPa/m
Limiting C: 23.5 kPa



Göta älvutredningen 2009-2013
Delområde: 2
Sektion 29, KM N103/860
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-07-04
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 29 Kombinderad.gsz

SKALA 1:1000 (A3)

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.6 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 16 kPa/m
C/Cu Ratio: 0.1

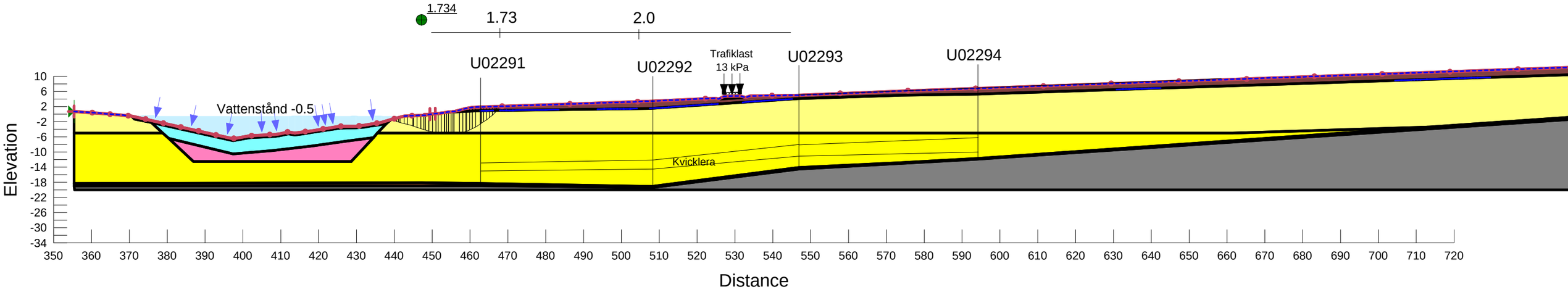
Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15.5 kN/m³
Phi: 30 °
C-Top of Layer: 0.85 kPa
C-Rate of Change: 0.0671 kPa/m
Cu-Top of Layer: 8.5 kPa
Cu-Rate of Change: 0.671 kPa/m
C/Cu Ratio: 0.1

Name: Lera2
Model: Combined, S=f(datum)
Unit Weight: 15.5 kN/m³
Phi: 30 °
C-Datum: 1.45 kPa
C-Rate of Change: 0.158 kPa/m
Cu-Datum: 14.5 kPa
Cu-Rate of Change: 1.58 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 34 °
Phi-B: 0 °

Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.17 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 1.7 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.4 kPa
C-Rate of Change: 0.146 kPa/m
Cu-Top of Layer: 14 kPa
Cu-Rate of Change: 1.46 kPa/m
C/Cu Ratio: 0.1



Göta älvutredningen 2009-2013
Delområde: 2
Sektion 29, KM N103/860
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
PWP Conditions Source: Pressure Head Spatial Function
Date: 2011-07-04
Created By: Isaksson Mikael
Last Edited By: Isaksson Mikael
File Name: Sektion 29 Kombinderad.gsz

SKALA 1:1000 (A3)

Name: Let
Model: Combined, S=f(depth)
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 2 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Name: Älvbotten
Model: Combined, S=f(depth)
Unit Weight: 14 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 1.6 kPa/m
Cu-Top of Layer: 0 kPa
Cu-Rate of Change: 16 kPa/m
C/Cu Ratio: 0.1

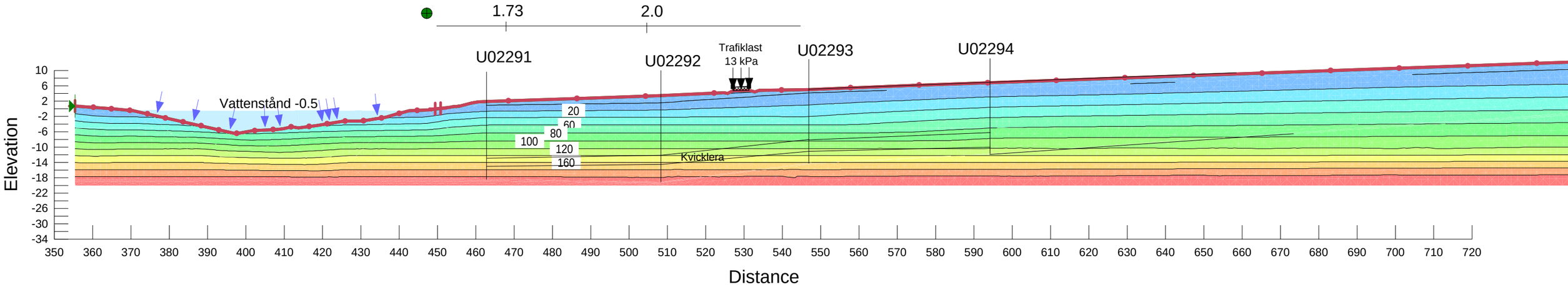
Name: Lera1
Model: Combined, S=f(depth)
Unit Weight: 15.5 kN/m³
Phi: 30 °
C-Top of Layer: 0.85 kPa
C-Rate of Change: 0.0671 kPa/m
Cu-Top of Layer: 8.5 kPa
Cu-Rate of Change: 0.671 kPa/m
C/Cu Ratio: 0.1

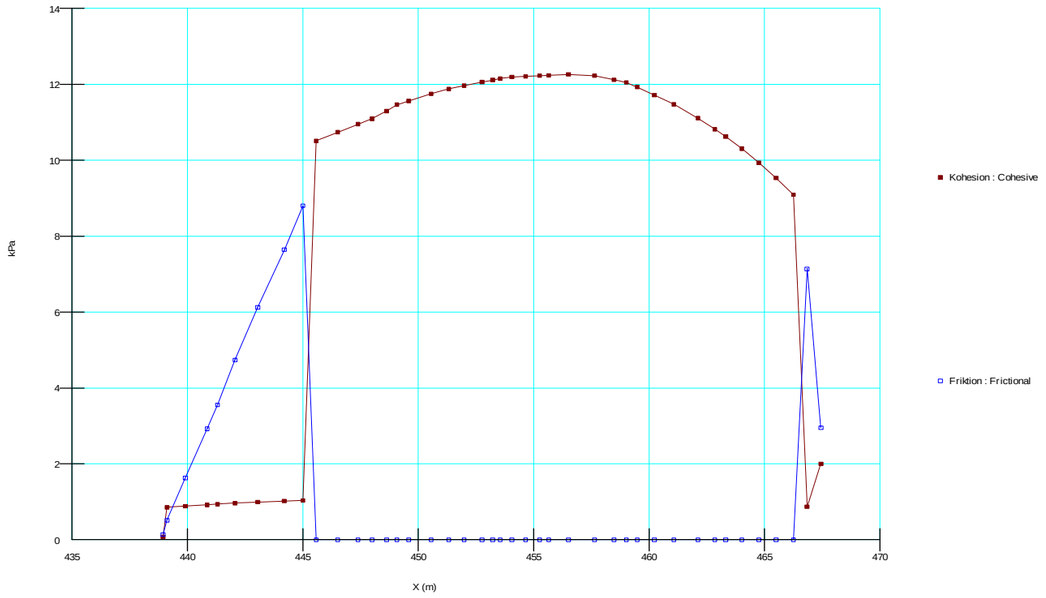
Name: Lera2
Model: Combined, S=f(datum)
Unit Weight: 15.5 kN/m³
Phi: 30 °
C-Datum: 1.45 kPa
C-Rate of Change: 0.158 kPa/m
Cu-Datum: 14.5 kPa
Cu-Rate of Change: 1.58 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

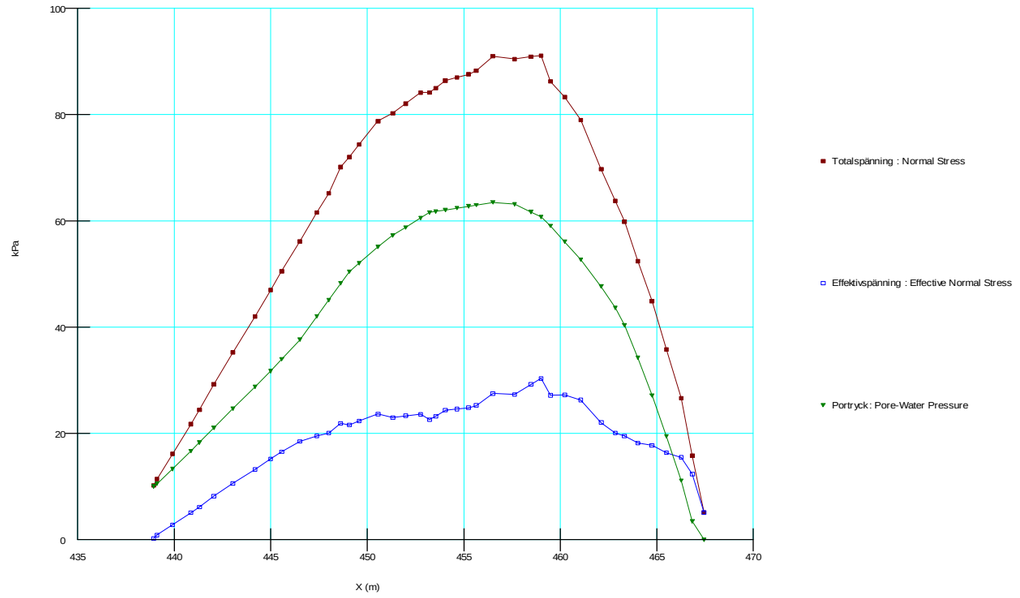
Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 34 °
Phi-B: 0 °

Name: Älvlera1
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.17 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 1.7 kPa/m
C/Cu Ratio: 0.1

Name: Älvlera2
Model: Combined, S=f(depth)
Unit Weight: 15 kN/m³
Phi: 30 °
C-Top of Layer: 1.4 kPa
C-Rate of Change: 0.146 kPa/m
Cu-Top of Layer: 14 kPa
Cu-Rate of Change: 1.46 kPa/m
C/Cu Ratio: 0.1

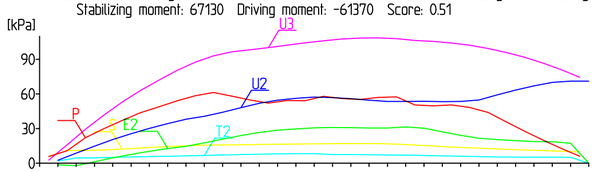


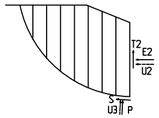

kPa
X (m)
Kohesion : Cohesive
Friktion : Frictional


kPa
X (m)
Totalspänning : Normal Stress
Effektivspänning : Effective Normal Stress
Portryck: Pore-Water Pressure

Bilaga 1:33

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion31.R4
Stabilizing moment: 67130 Driving moment: -61370 Score: 0.51





Search area (tangent)

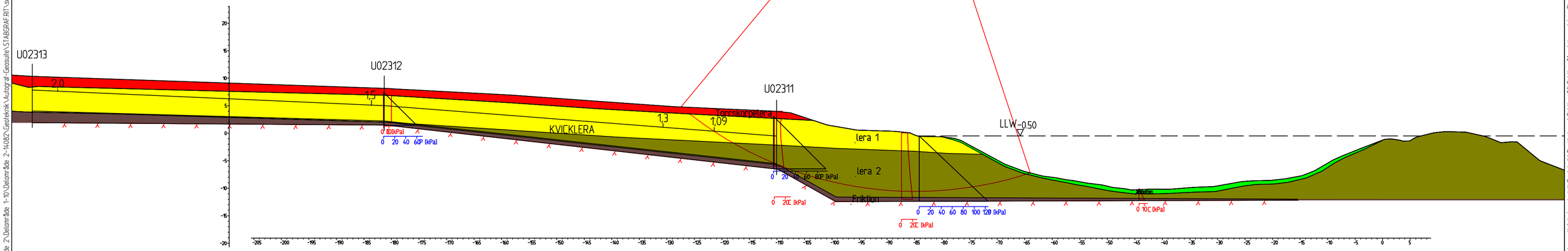
Fc=1.09

Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Torrskorpelera	18.00	30.0	10.0				
älvbotten	16.00			C-prof	1.00	1.00	1.00
lera 1	16.00			C-prof	1.00	1.00	1.00
lera 2	15.00			C-prof	1.00	1.00	1.00
Friktion	18.00	38.0	0.0				

BERG I DAGEN VID AVSTÅND CA 270 M FRÅN VL

Fc

2,0 1,5 1,3 1,09

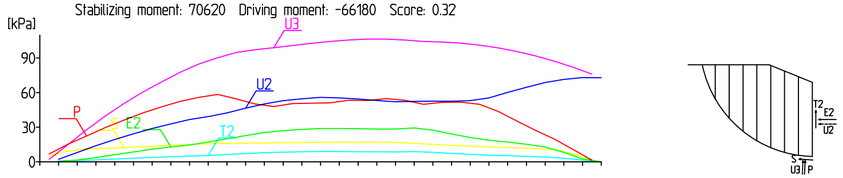


KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN
ODRÄNERAD ANALYS
SEKTION 31, (KM 103/970 S)
SKALA 1:500 (A3F)
2011-06-30
o:\106278\110126_do2\gäu delområde 2\...\sektion 31.dwg

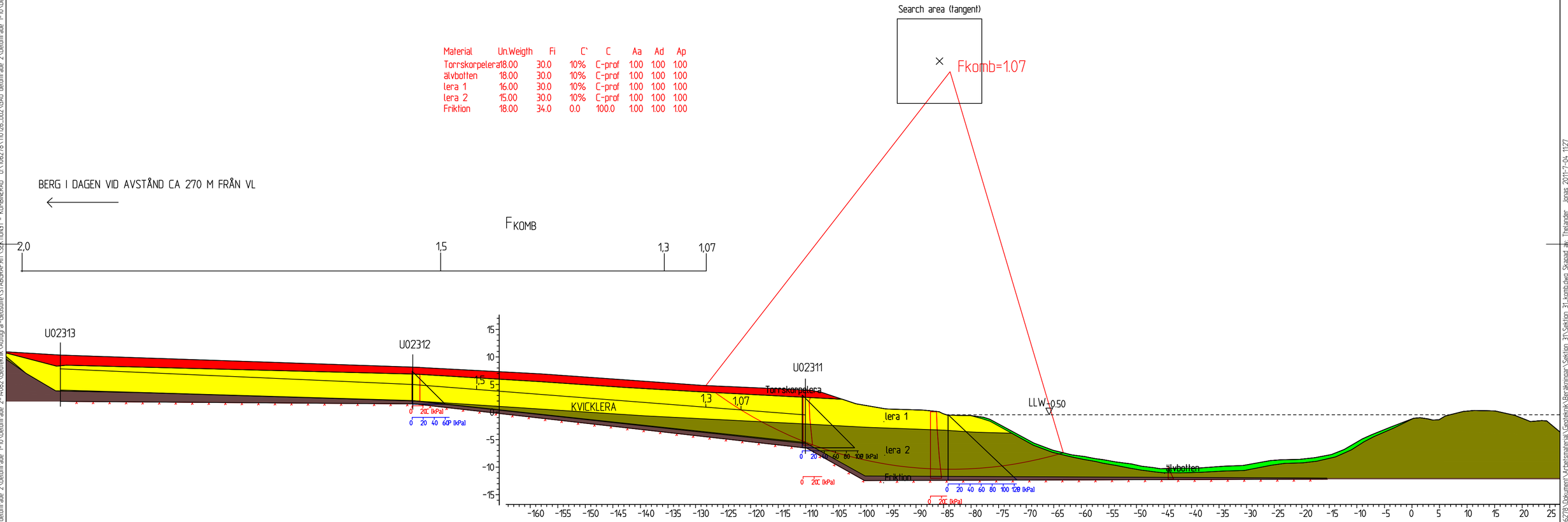
XREF: o:\106278\110126_do2\GAU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion31 o:\106278\110126_do2\GAU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAF.RIT\Sektion_13-4
Ritmg: \\srv-rit-van\k-uppdrag\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 31\Sektion 31_odränerad.dwg Skapad av: Thelander Jonas 2011-7-04 11:29

Bilaga 1:34

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion31 - kombinerad.R3
Stabilizing moment: 70620 Driving moment: -66180 Score: 0.32



Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Torrskorpelera	18.00	30.0	10%	C-prof	1.00	1.00	1.00
älvbotten	18.00	30.0	10%	C-prof	1.00	1.00	1.00
lera 1	16.00	30.0	10%	C-prof	1.00	1.00	1.00
lera 2	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Friktion	18.00	34.0	0.0	100.0	1.00	1.00	1.00



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN
KOMBINERAD ANALYS
SEKTION 31, (KM 103/970 S)
SKALA 1:500 (A3F)
2011-06-30
o:\106278\110126_do2\gäu delområde 2\...\sektion 31.dwg

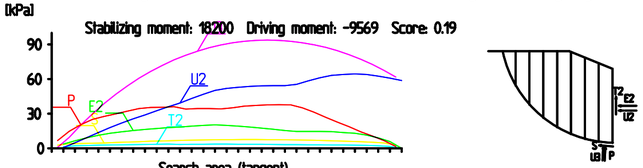
XREF: o:\106278\110126_Do2\GAU delområde 2\delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAFRIT\SEKTION31 - KOMBINERAD o:\106278\110126_Do2\GAU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAF
Ritmng \\srv-fil1-van\k-uppdrag\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 31\Sektion 31_komb.dwg Skapad av: Thelander Jonas 2011-7-04 11:27

Bilaga 1:35

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 33.R2

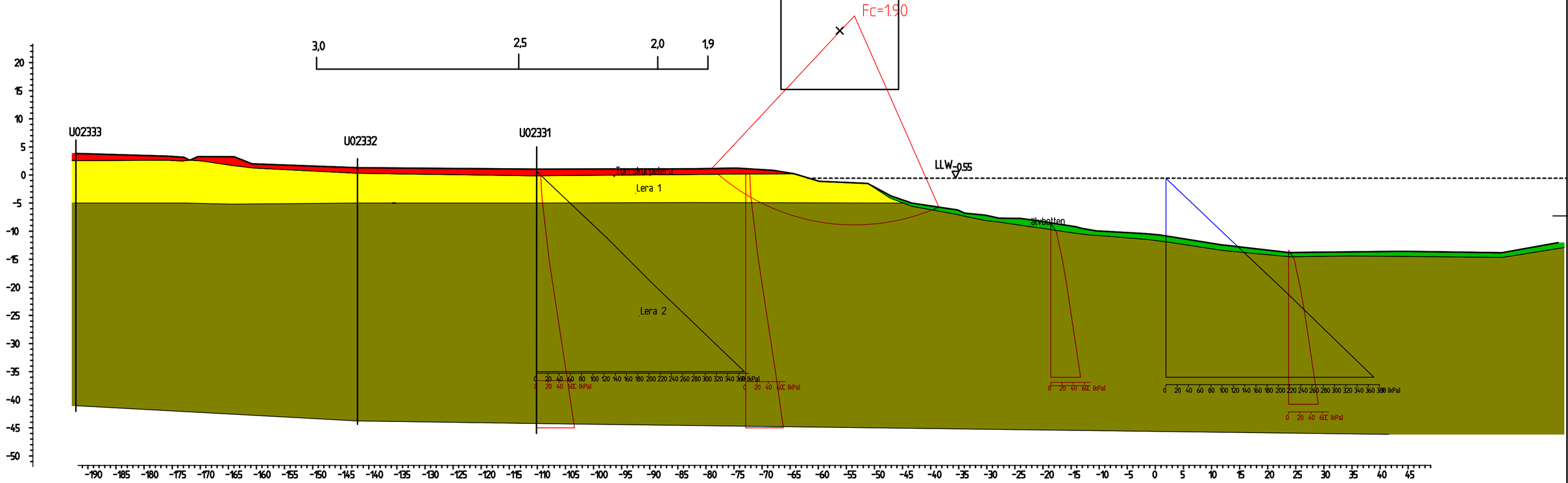
[kPa]

Stabilizing moment: 18200 Driving moment: -9569 Score: 0.19



Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Torrskorpelera	18.00	30.0	10.0				
älvbotten	16.00			C-prof	1.00	1.00	1.00
Lera 1	15.00			C-prof	1.00	1.00	1.00
Lera 2	16.00			C-prof	1.00	1.00	1.00

Search area (tangent)



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

ODRÄNERAD ANALYS

SEKTION 33, (KM 105/180 S)

SKALA 1:500 (A3F)

2011-09-30

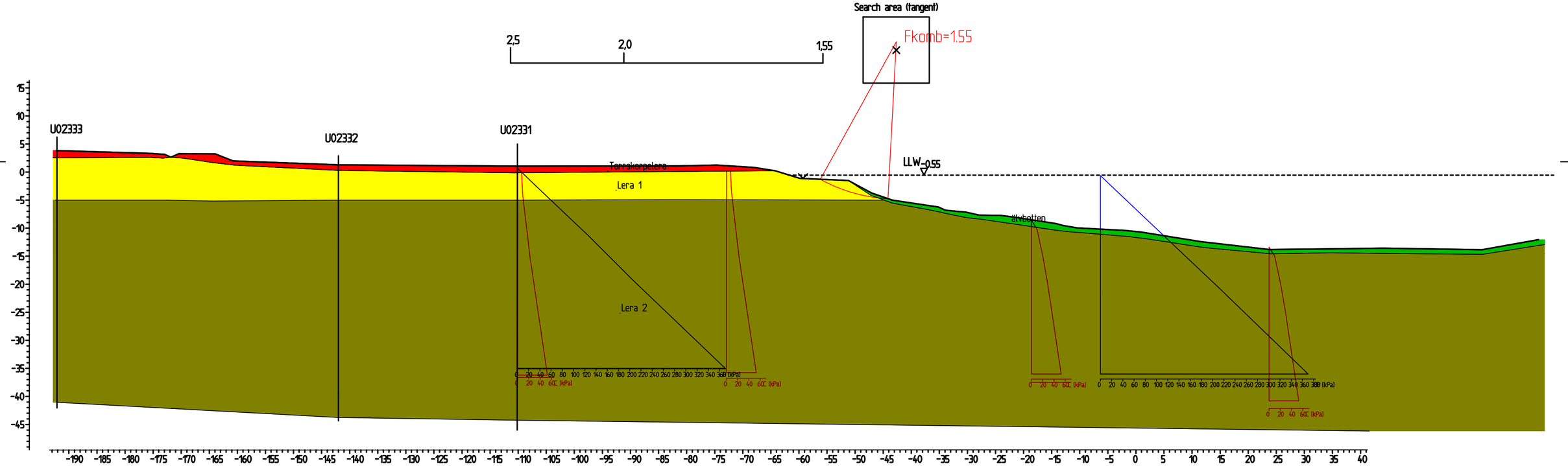
o:\106278\110126_do2\gäu delområde 2\...\sektion 33.dwg

XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAFRIT\sektion 33 ...\...\...\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAFRIT\Sektion_13-...

Ritning: O:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 33\Sektion 33.odraneradd.wg Skapad av: Thelander Jonas 2011-9-28 08:05

Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Torrskorpelera	18.00	30.0	10%	100.0	1.00	1.00	1.00
älvbotten	16.00	30.0	10%	C-prof	1.00	1.00	1.00
Lera 1	15.00	30.0	10%	C-prof	1.00	1.00	1.00
Lera 2	16.00	30.0	10%	C-prof	1.00	1.00	1.00

Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 33 - kombinerad.R4
Stabilizing moment: 830 Driving moment: -536 Score: 2.38



KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN
KOMBINERAD ANALYS
SEKTION 33, (KM 105/180 S)
SKALA 1:500 (A3F)
2011-09-30
o:\106278\110126_do2\gäu delområde 2\...\sektion 33.dwg

XREF: o:\106278\110126_do2\GäU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAFRIT\SECTION 33 - KOMBINERAD ...\...\...\110126_do2\GäU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAF
Ritning: o:\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 33\Sektion 33.KOMB.dwg Skapad av: Thelander Jonas 2011-9-28 08:00

Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 106/115 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-06-23
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)

Name: Torrskorpa/Fast ytlager
Model: Undrained (Phi=0)
Unit Weight: 18 kN/m³
Cohesion: 30 kPa

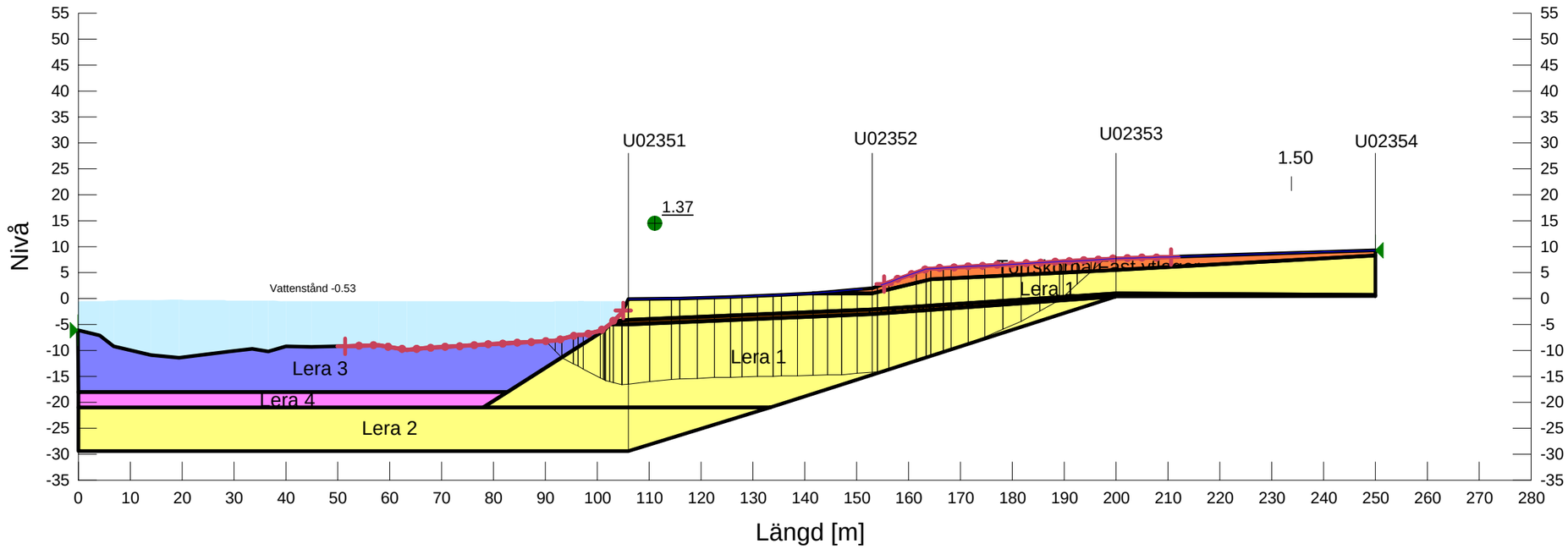
Name: Lera 1
Model: S=f(datum)
Unit Weight: 16.2 kN/m³
C-Datum: 8 kPa
C-Rate of Change: 1.05 kPa/m
Limiting C: 0 kPa
Elevation: 8 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 19 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Name: Lera 2
Model: S=f(datum)
Unit Weight: 17.4 kN/m³
C-Datum: 39 kPa
C-Rate of Change: 1.05 kPa/m
Limiting C: 0 kPa
Elevation: -21 m

Name: Lera 3
Model: S=f(datum)
Unit Weight: 15.8 kN/m³
C-Datum: 1 kPa
C-Rate of Change: 2.42 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Name: Lera 4
Model: S=f(datum)
Unit Weight: 16.5 kN/m³
C-Datum: 1 kPa
C-Rate of Change: 2.42 kPa/m
Limiting C: 0 kPa
Elevation: -5 m



Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 35\
File Name: KM 106_115 N Sekt 35 c+phi.gsz

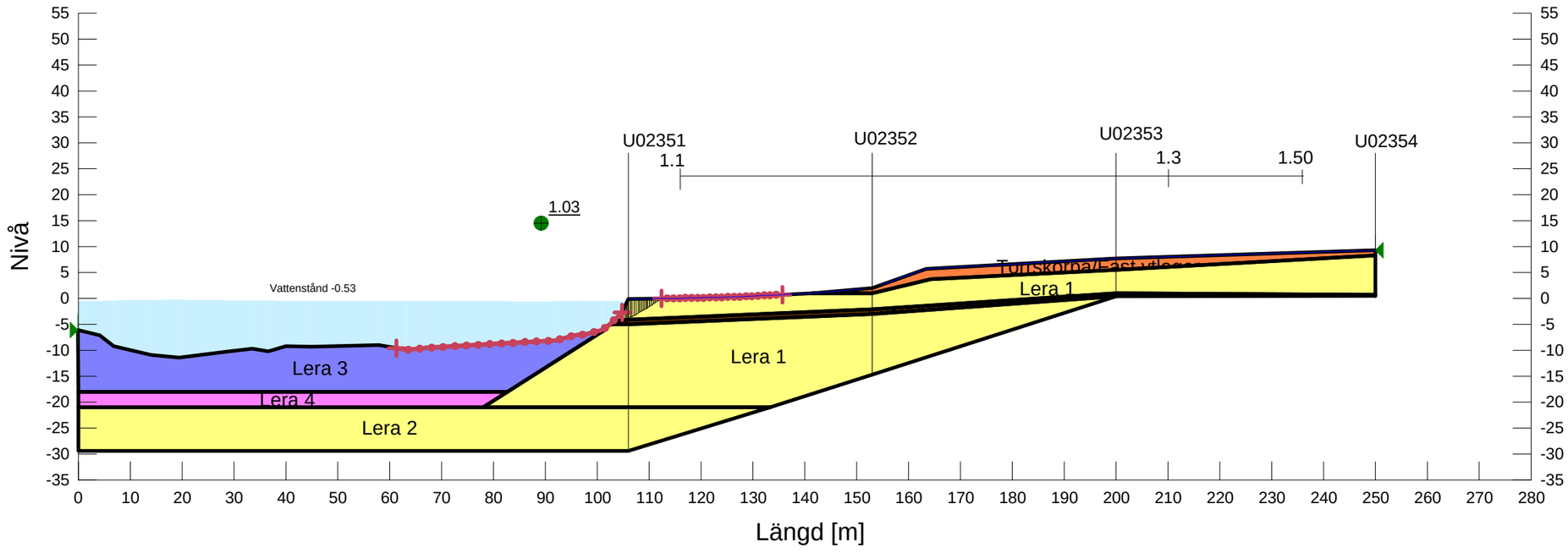
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 106/115 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 16.2 kN/m³
Phi: 30 °
C-Datum: 0.8 kPa
C-Rate of Change: 0.105 kPa/m
Cu-Datum: 8 kPa
Cu-Rate of Change: 1.05 kPa/m
C/Cu Ratio: 0.1
Elevation: 8 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 19 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 17.4 kN/m³
Phi: 30 °
C-Datum: 3.9 kPa
C-Rate of Change: 0.105 kPa/m
Cu-Datum: 39 kPa
Cu-Rate of Change: 1.05 kPa/m
C/Cu Ratio: 0.1
Elevation: -21 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.1 kPa
C-Rate of Change: 0.242 kPa/m
Cu-Datum: 1 kPa
Cu-Rate of Change: 2.42 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 16.5 kN/m³
Phi: 30 °
C-Datum: 0.1 kPa
C-Rate of Change: 0.242 kPa/m
Cu-Datum: 1 kPa
Cu-Rate of Change: 2.42 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 35\
File Name: KM 106_115 N Sekt 35 kombinerad.gsz

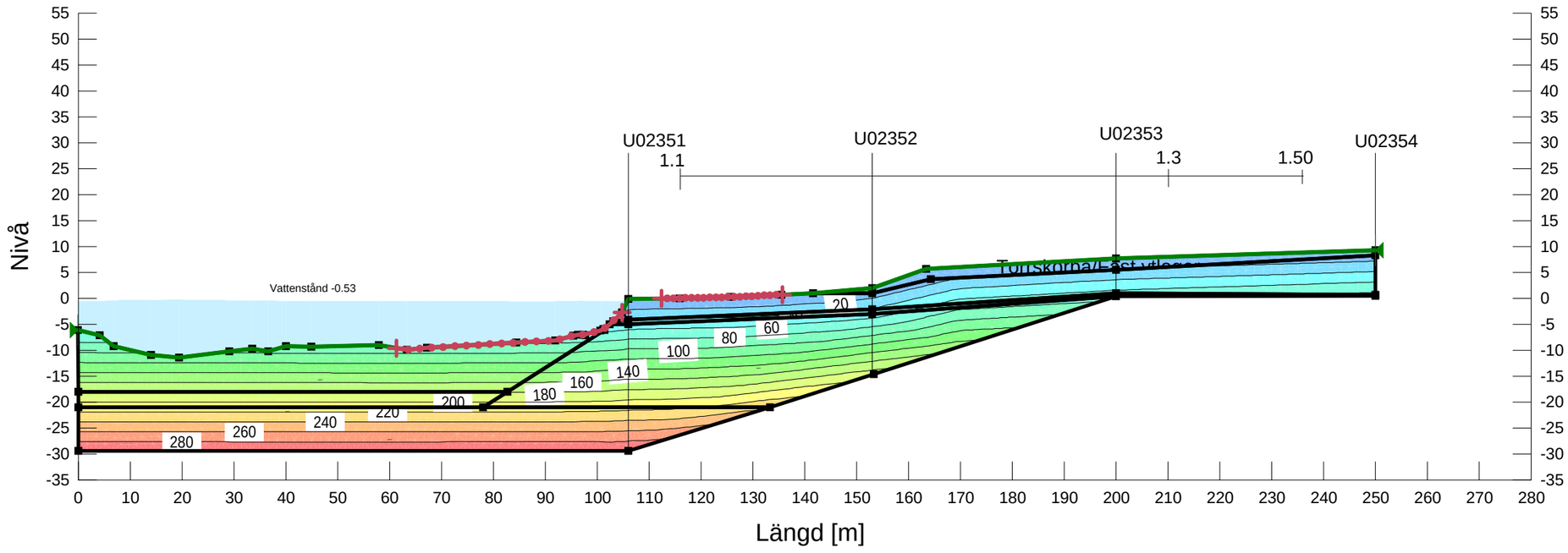
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 106/115 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 16.2 kN/m³
Phi: 30 °
C-Datum: 0.8 kPa
C-Rate of Change: 0.105 kPa/m
Cu-Datum: 8 kPa
Cu-Rate of Change: 1.05 kPa/m
C/Cu Ratio: 0.1
Elevation: 8 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 19 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 17.4 kN/m³
Phi: 30 °
C-Datum: 3.9 kPa
C-Rate of Change: 0.105 kPa/m
Cu-Datum: 39 kPa
Cu-Rate of Change: 1.05 kPa/m
C/Cu Ratio: 0.1
Elevation: -21 m

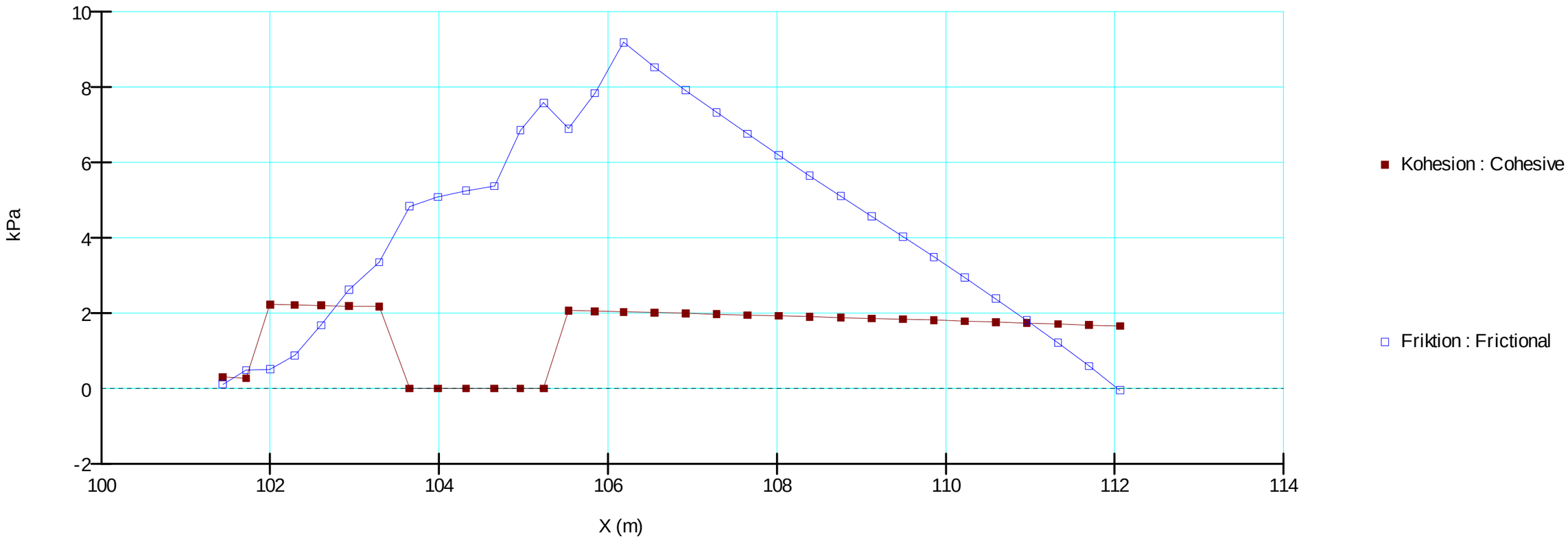
Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.1 kPa
C-Rate of Change: 0.242 kPa/m
Cu-Datum: 1 kPa
Cu-Rate of Change: 2.42 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 16.5 kN/m³
Phi: 30 °
C-Datum: 0.1 kPa
C-Rate of Change: 0.242 kPa/m
Cu-Datum: 1 kPa
Cu-Rate of Change: 2.42 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 35\
File Name: KM 106_115 N Sekt 35 kombinerad.gsz

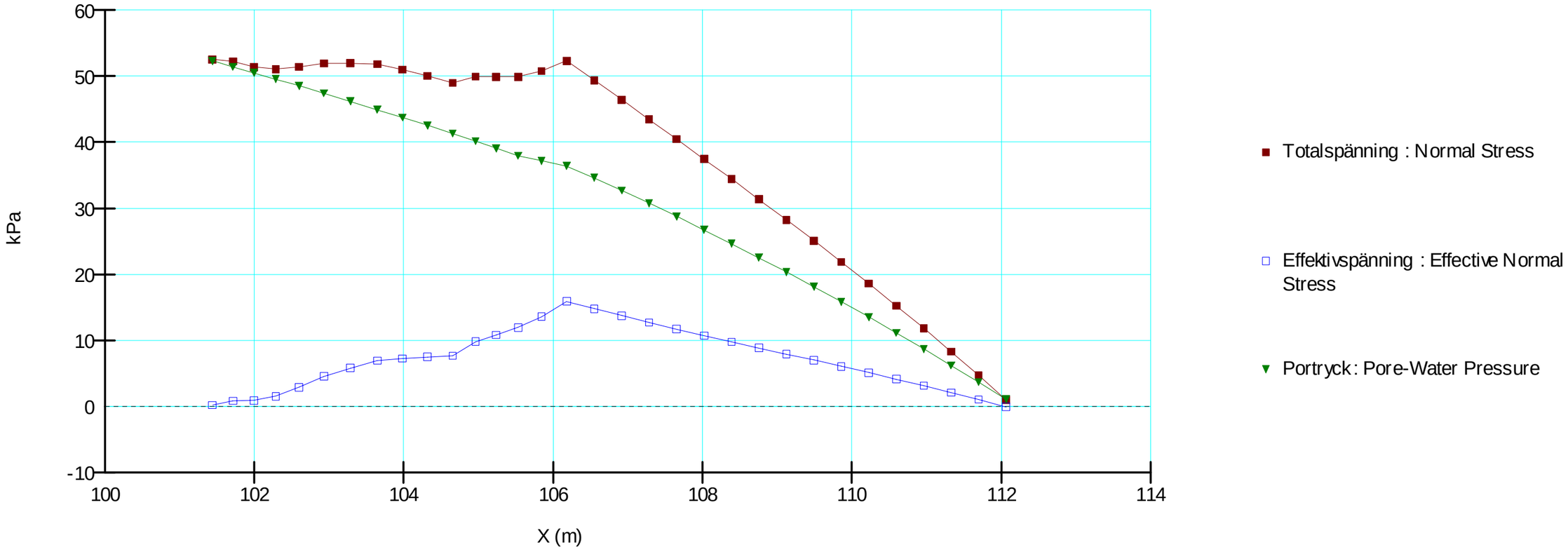
Sektion 35, KM 106/000 N

Kohesion och friktion (Kombinerad analys)



Sektion 35, KM 106/000 N

Spänningar (Kombinerad analys)



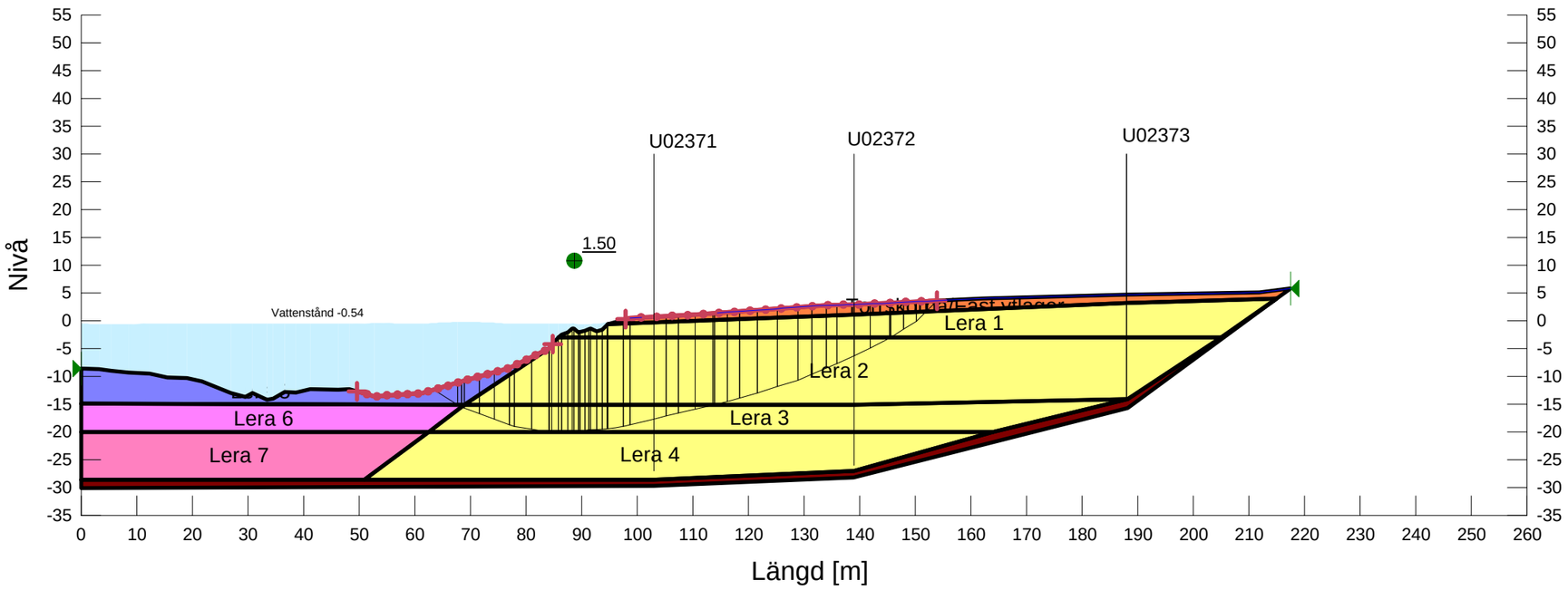
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 106/900 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-06-23
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Undrained (Phi=0)
Unit Weight: 18 kN/m³
Cohesion: 30 kPa

Name: Lera 1
Model: S=f(datum)
Unit Weight: 15.4 kN/m³
C-Datum: 11 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa
Elevation: 2 m

Name: Lera 2
Model: S=f(datum)
Unit Weight: 15.4 kN/m³
C-Datum: 11 kPa
C-Rate of Change: 1.26 kPa/m
Limiting C: 0 kPa
Elevation: -3 m

Name: Lera 3
Model: S=f(datum)
Unit Weight: 17.2 kN/m³
C-Datum: 11 kPa
C-Rate of Change: 1.26 kPa/m
Limiting C: 0 kPa
Elevation: -3 m

Name: Lera 4
Model: S=f(datum)
Unit Weight: 18.4 kN/m³
C-Datum: 11 kPa
C-Rate of Change: 1.26 kPa/m
Limiting C: 0 kPa
Elevation: -3 m

Name: Lera 5
Model: S=f(datum)
Unit Weight: 15.4 kN/m³
C-Datum: 3 kPa
C-Rate of Change: 2 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Name: Lera 6
Model: S=f(datum)
Unit Weight: 16.5 kN/m³
C-Datum: 3 kPa
C-Rate of Change: 2 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Name: Lera 7
Model: S=f(datum)
Unit Weight: 16.5 kN/m³
C-Datum: 33 kPa
C-Rate of Change: 1.26 kPa/m
Limiting C: 0 kPa
Elevation: -20 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 37\
File Name: KM 106_900 N Sekt 37 c+phi.gsz

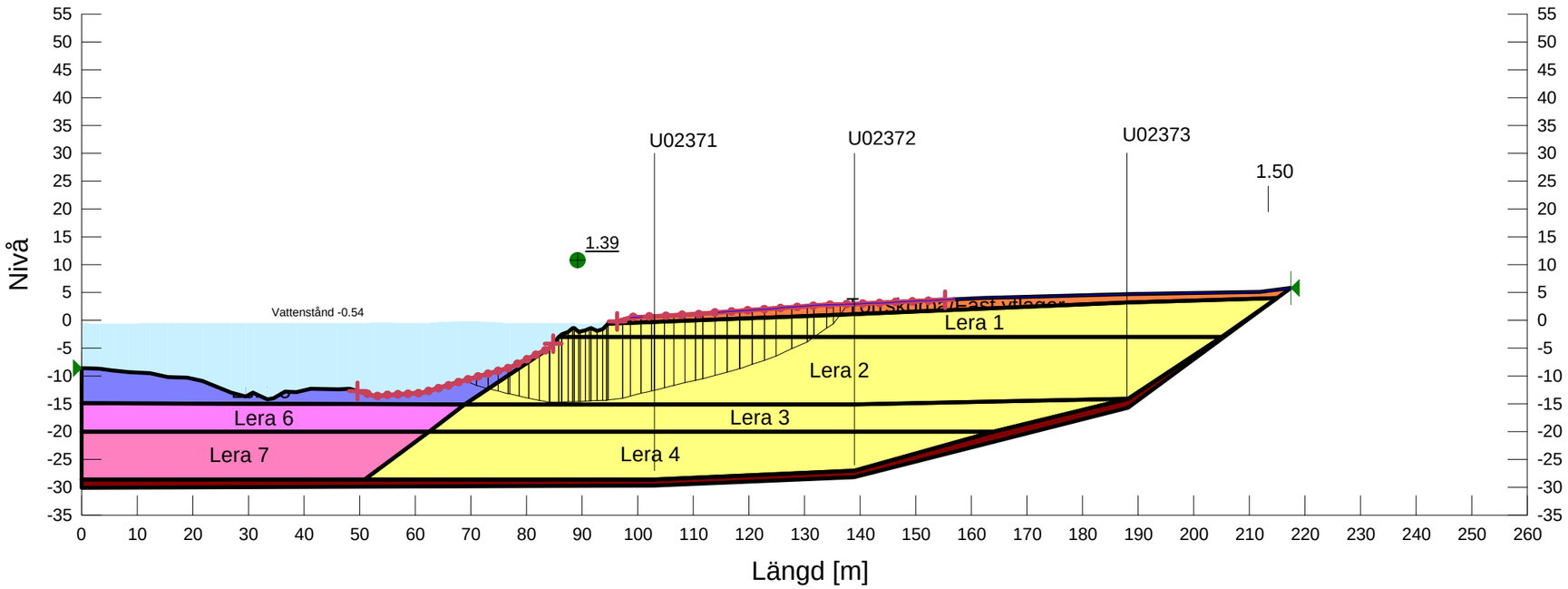
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 106/900 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: 2 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -3 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 17.2 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -3 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 18.4 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -3 m

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.3 kPa
C-Rate of Change: 0.2 kPa/m
Cu-Datum: 3 kPa
Cu-Rate of Change: 2 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 6
Model: Combined, S=f(datum)
Unit Weight: 16.5 kN/m³
Phi: 30 °
C-Datum: 0.3 kPa
C-Rate of Change: 0.2 kPa/m
Cu-Datum: 3 kPa
Cu-Rate of Change: 2 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 7
Model: Combined, S=f(datum)
Unit Weight: 16.5 kN/m³
Phi: 30 °
C-Datum: 3.3 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 33 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -20 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 37\
File Name: KM 106_900 N Sekt 37 kombinerad.gsz

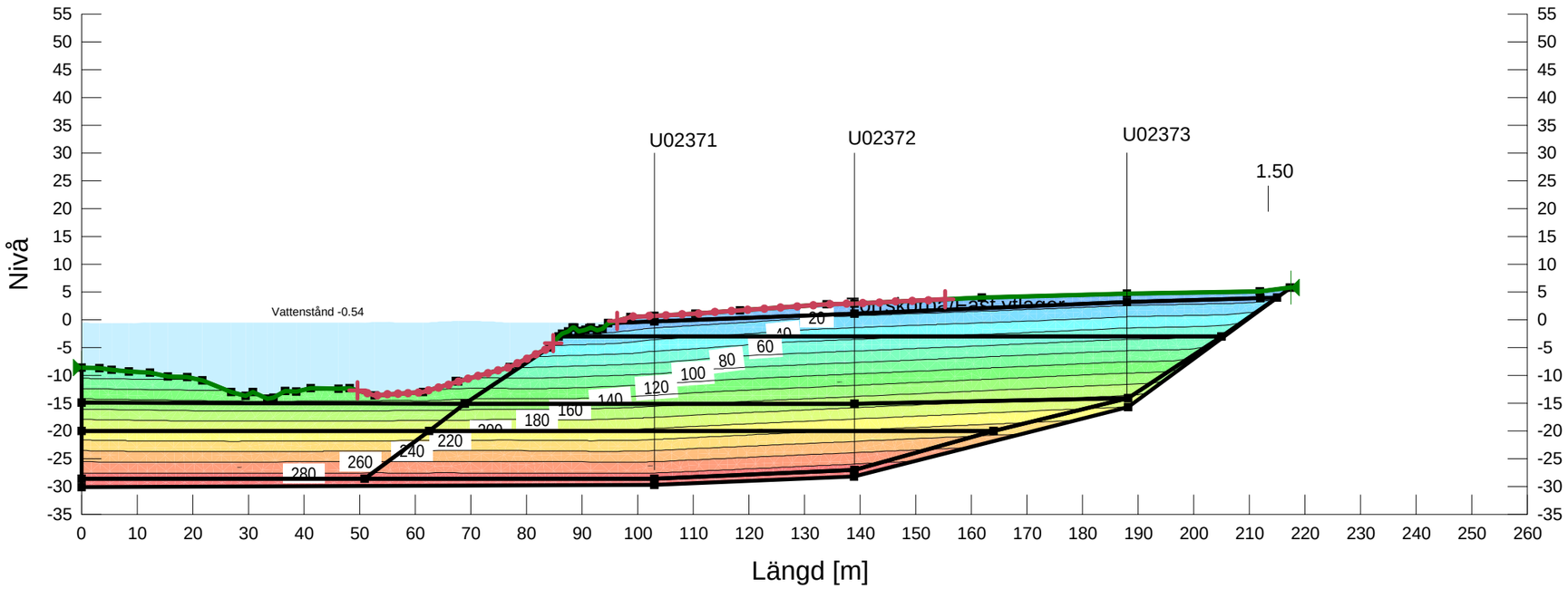
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 106/900 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: 2 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -3 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 17.2 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -3 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 18.4 kN/m³
Phi: 30 °
C-Datum: 1.1 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 11 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -3 m

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.3 kPa
C-Rate of Change: 0.2 kPa/m
Cu-Datum: 3 kPa
Cu-Rate of Change: 2 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 6
Model: Combined, S=f(datum)
Unit Weight: 16.5 kN/m³
Phi: 30 °
C-Datum: 0.3 kPa
C-Rate of Change: 0.2 kPa/m
Cu-Datum: 3 kPa
Cu-Rate of Change: 2 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

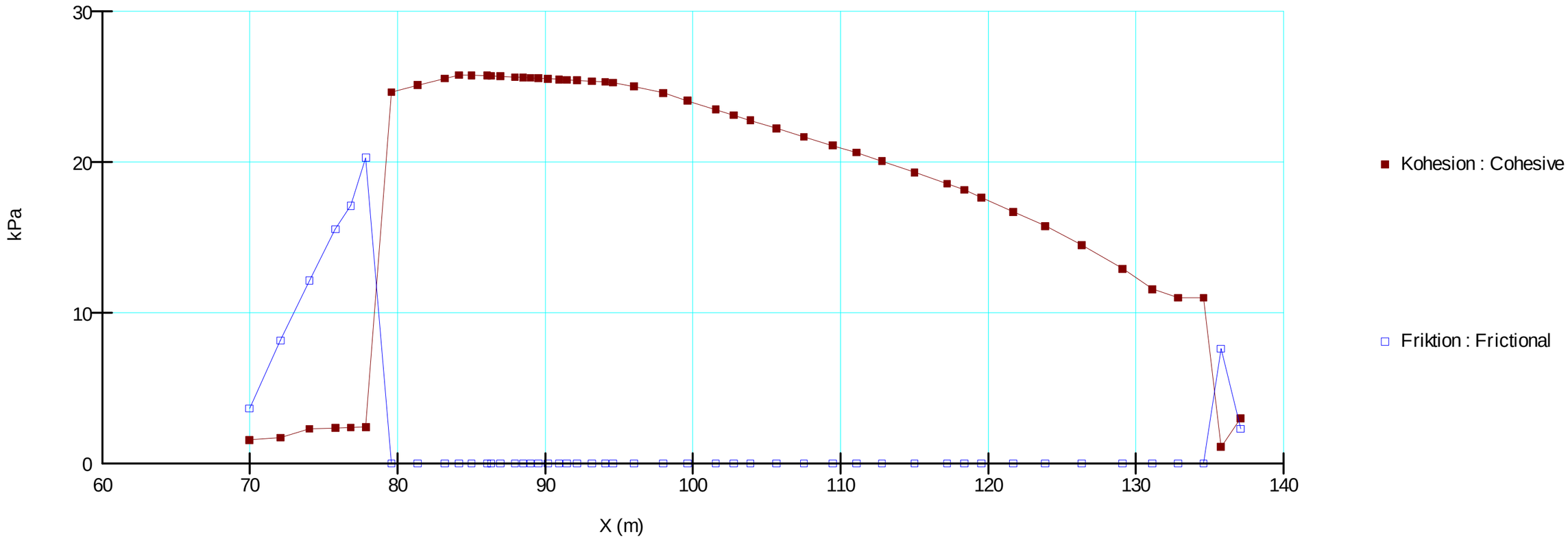
Name: Lera 7
Model: Combined, S=f(datum)
Unit Weight: 16.5 kN/m³
Phi: 30 °
C-Datum: 3.3 kPa
C-Rate of Change: 0.126 kPa/m
Cu-Datum: 33 kPa
Cu-Rate of Change: 1.26 kPa/m
C/Cu Ratio: 0.1
Elevation: -20 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 37\
File Name: KM 106_900 N Sekt 37 kombinerad.gsz

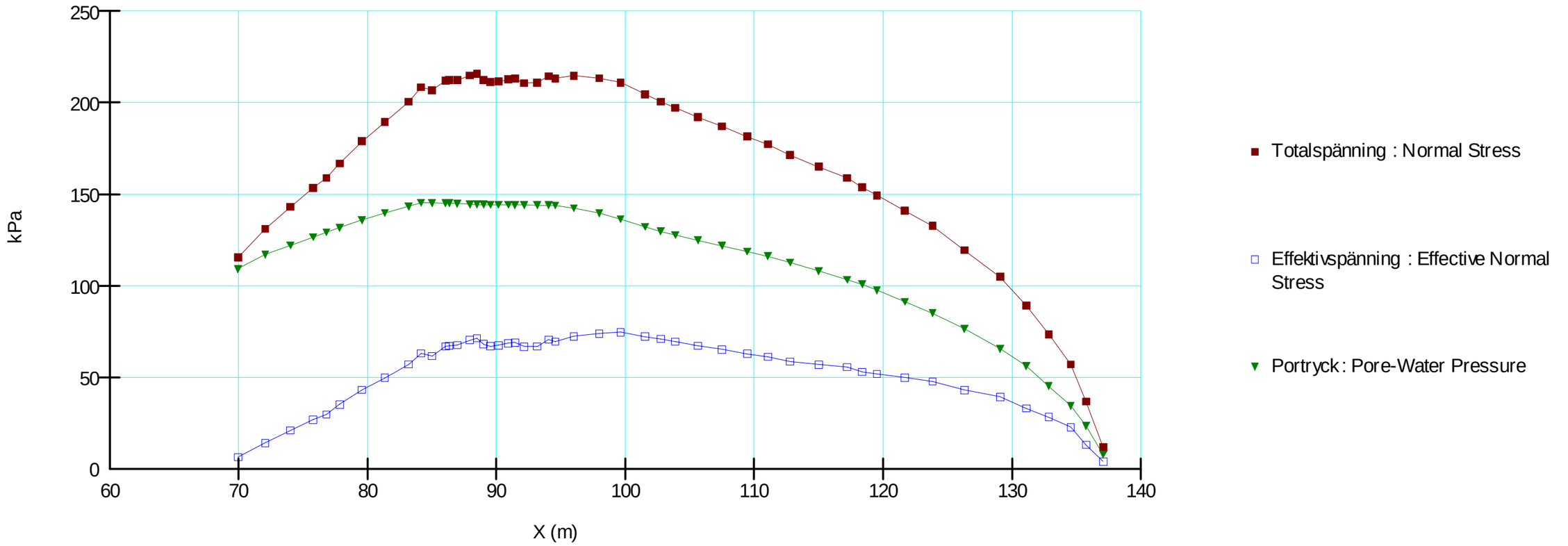
Sektion 37, KM 102/370 N

Kohesion och friktion (Kombinerad analys)



Sektion 37, KM 106/900 N

Spänningar (Kombinerad analys)



Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 108/000 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-06-23
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)

Name: Torrskorpa/Fast ytlager
Model: Undrained (Phi=0)
Unit Weight: 18 kN/m³
Cohesion: 30 kPa

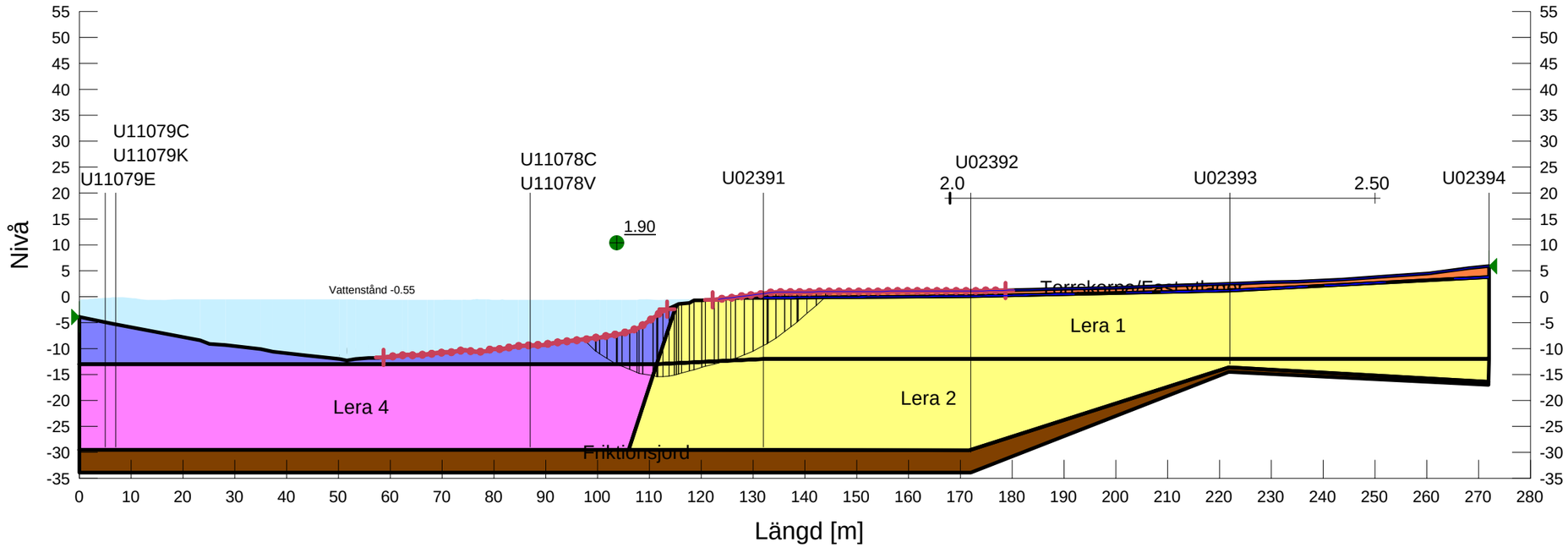
Name: Lera 1
Model: S=f(datum)
Unit Weight: 15.8 kN/m³
C-Datum: 3.5 kPa
C-Rate of Change: 1.37 kPa/m
Limiting C: 0 kPa
Elevation: 5 m

Name: Lera 2
Model: S=f(datum)
Unit Weight: 16.8 kN/m³
C-Datum: 9 kPa
C-Rate of Change: 1.37 kPa/m
Limiting C: 0 kPa
Elevation: 1 m

Name: Lera 3
Model: S=f(datum)
Unit Weight: 14.2 kN/m³
C-Datum: 0 kPa
C-Rate of Change: 1.48 kPa/m
Limiting C: 0 kPa
Elevation: -0.4 m

Name: Lera 4
Model: S=f(datum)
Unit Weight: 16.4 kN/m³
C-Datum: 9 kPa
C-Rate of Change: 1.48 kPa/m
Limiting C: 0 kPa
Elevation: -7 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °



Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 39\
File Name: KM 108_000 N Sekt 39 Odränerad.gsz

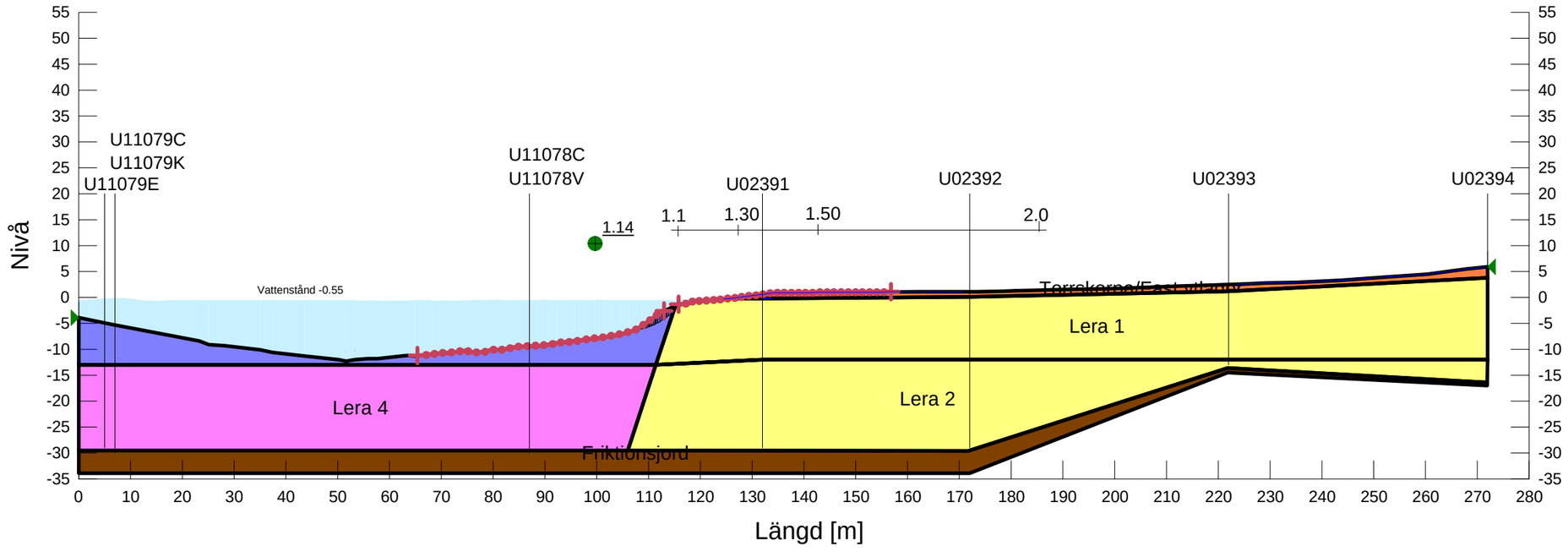
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 108/000 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.35 kPa
C-Rate of Change: 0.137 kPa/m
Cu-Datum: 3.5 kPa
Cu-Rate of Change: 1.37 kPa/m
C/Cu Ratio: 0.1
Elevation: 5 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 0.9 kPa
C-Rate of Change: 0.137 kPa/m
Cu-Datum: 9 kPa
Cu-Rate of Change: 1.37 kPa/m
C/Cu Ratio: 0.1
Elevation: 1 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 14.2 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0.148 kPa/m
Cu-Datum: 0 kPa
Cu-Rate of Change: 1.48 kPa/m
C/Cu Ratio: 0.1
Elevation: -0.4 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Datum: 0.9 kPa
C-Rate of Change: 0.148 kPa/m
Cu-Datum: 9 kPa
Cu-Rate of Change: 1.48 kPa/m
C/Cu Ratio: 0.1
Elevation: -7 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 39\
File Name: KM 108_000 N Sekt 39 Kombinerad.gsz

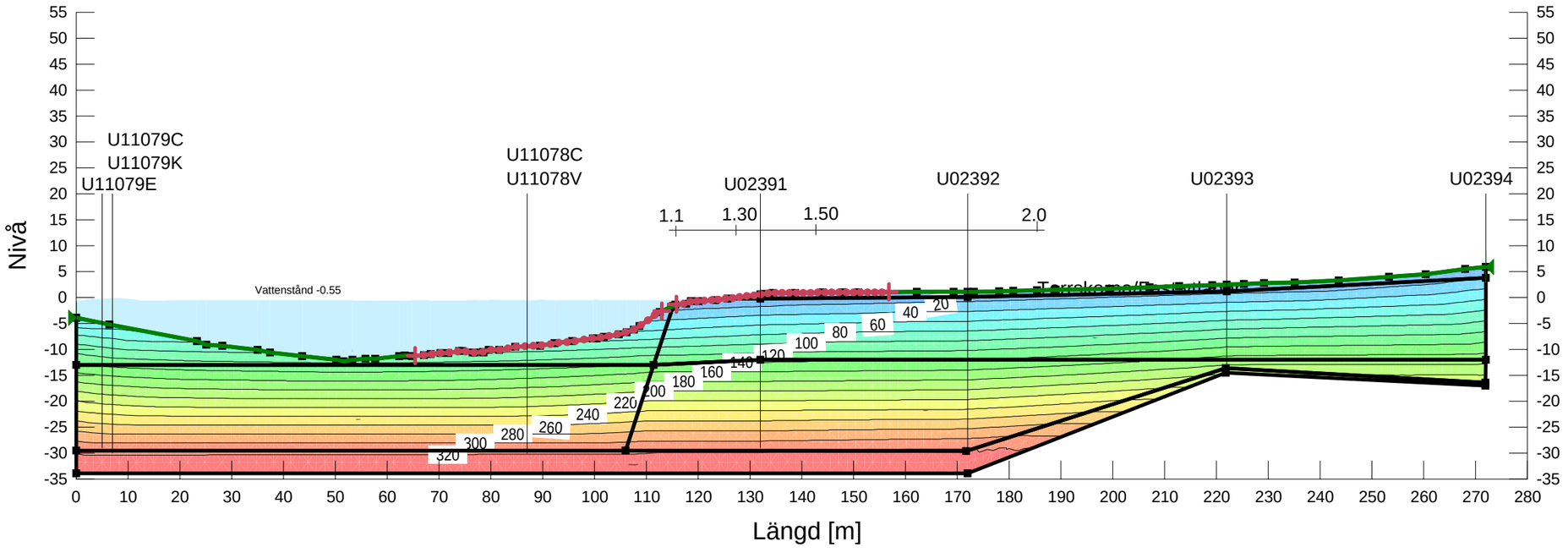
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 108/000 N
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.35 kPa
C-Rate of Change: 0.137 kPa/m
Cu-Datum: 3.5 kPa
Cu-Rate of Change: 1.37 kPa/m
C/Cu Ratio: 0.1
Elevation: 5 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 0.9 kPa
C-Rate of Change: 0.137 kPa/m
Cu-Datum: 9 kPa
Cu-Rate of Change: 1.37 kPa/m
C/Cu Ratio: 0.1
Elevation: 1 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 14.2 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0.148 kPa/m
Cu-Datum: 0 kPa
Cu-Rate of Change: 1.48 kPa/m
C/Cu Ratio: 0.1
Elevation: -0.4 m

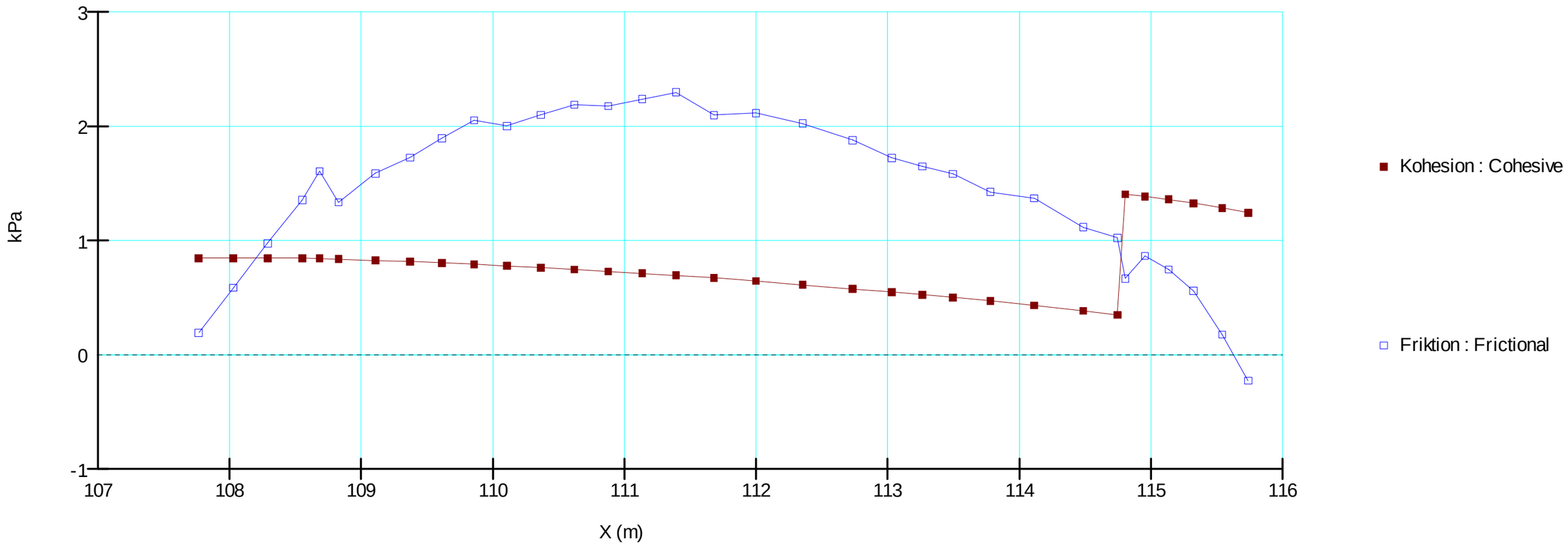
Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Datum: 0.9 kPa
C-Rate of Change: 0.148 kPa/m
Cu-Datum: 9 kPa
Cu-Rate of Change: 1.48 kPa/m
C/Cu Ratio: 0.1
Elevation: -7 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

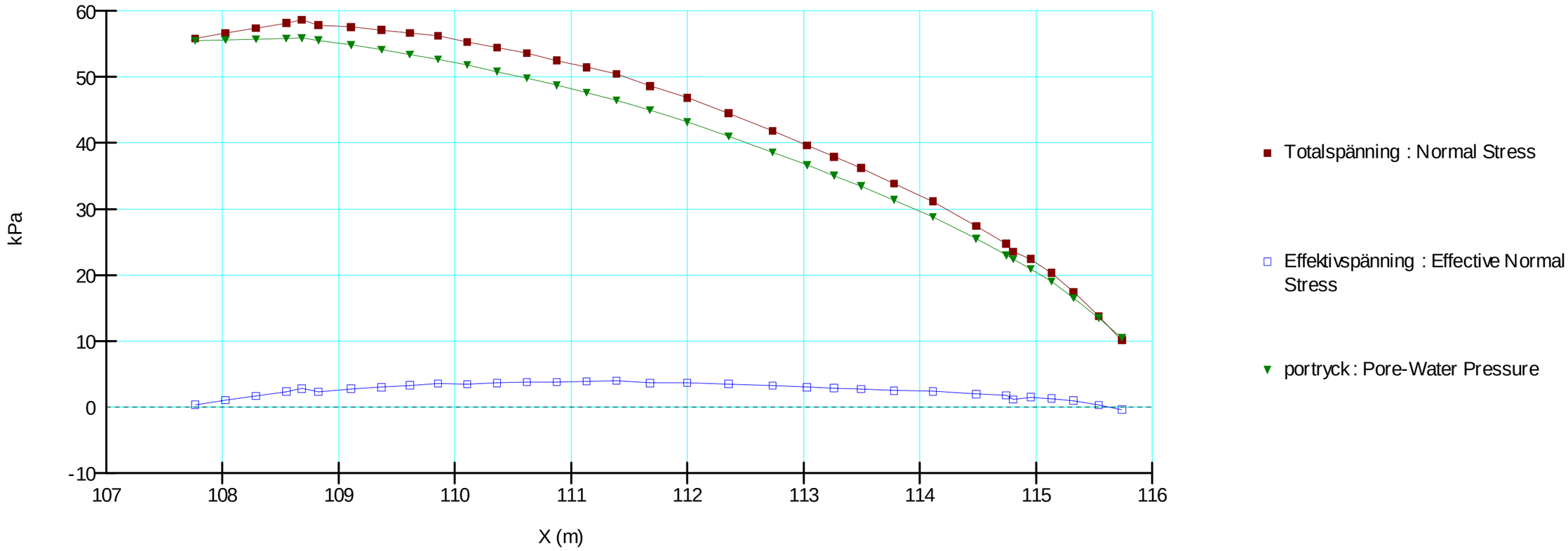
Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 39\
File Name: KM 108_000 N Sekt 39 Kombinerad.gsz

Sektion 39, KM 108/000 N

Kohesion och friktion (Kombinerad analys)



Sektion 39, KM 108/000 N
Spänningar (Kombinerad analys)



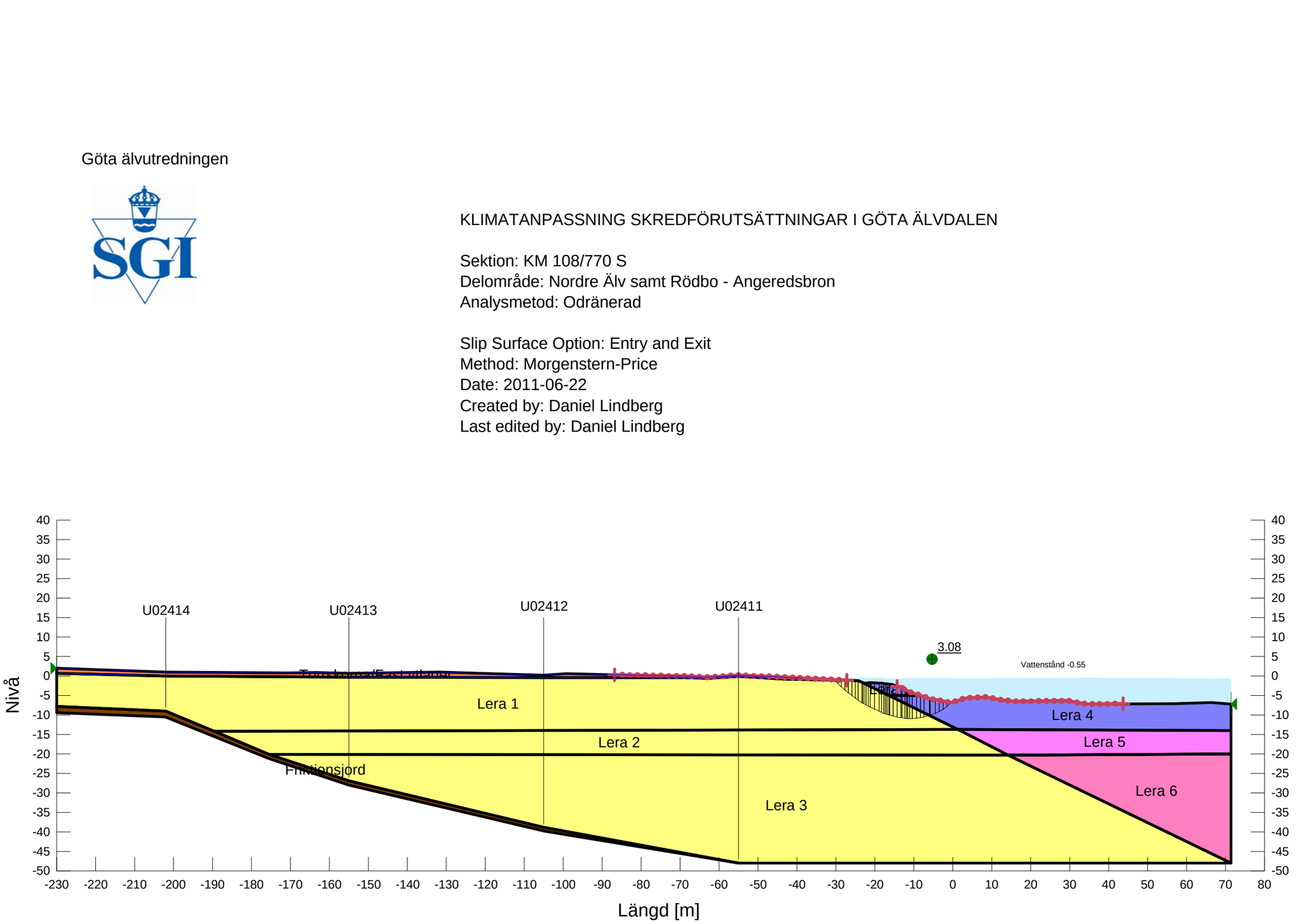
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 108/770 S
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-06-22
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Undrained (Phi=0)
Unit Weight: 18 kN/m³
Cohesion: 30 kPa

Name: Lera 1
Model: S=f(datum)
Unit Weight: 15.6 kN/m³
C-Datum: 4 kPa
C-Rate of Change: 1.52 kPa/m
Limiting C: 0 kPa
Elevation: 0 m

Name: Lera 2
Model: S=f(datum)
Unit Weight: 16.8 kN/m³
C-Datum: 4 kPa
C-Rate of Change: 1.52 kPa/m
Limiting C: 0 kPa
Elevation: 0 m

Name: Lera 3
Model: S=f(datum)
Unit Weight: 17.7 kN/m³
C-Datum: 4 kPa
C-Rate of Change: 1.52 kPa/m
Limiting C: 0 kPa
Elevation: 0 m

Name: Lera 4
Model: S=f(datum)
Unit Weight: 14.4 kN/m³
C-Datum: 5 kPa
C-Rate of Change: 1.57 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Name: Lera 5
Model: S=f(datum)
Unit Weight: 15.8 kN/m³
C-Datum: 5 kPa
C-Rate of Change: 1.57 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Name: Lera 6
Model: S=f(datum)
Unit Weight: 16.4 kN/m³
C-Datum: 5 kPa
C-Rate of Change: 1.57 kPa/m
Limiting C: 0 kPa
Elevation: -5 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Name: Lera 7
Model: S=f(depth)
Unit Weight: 14.4 kN/m³
C-Top of Layer: 5 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 0 kPa

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 41\
File Name: KM 108_770 S Sekt 41 c+phi.gsz

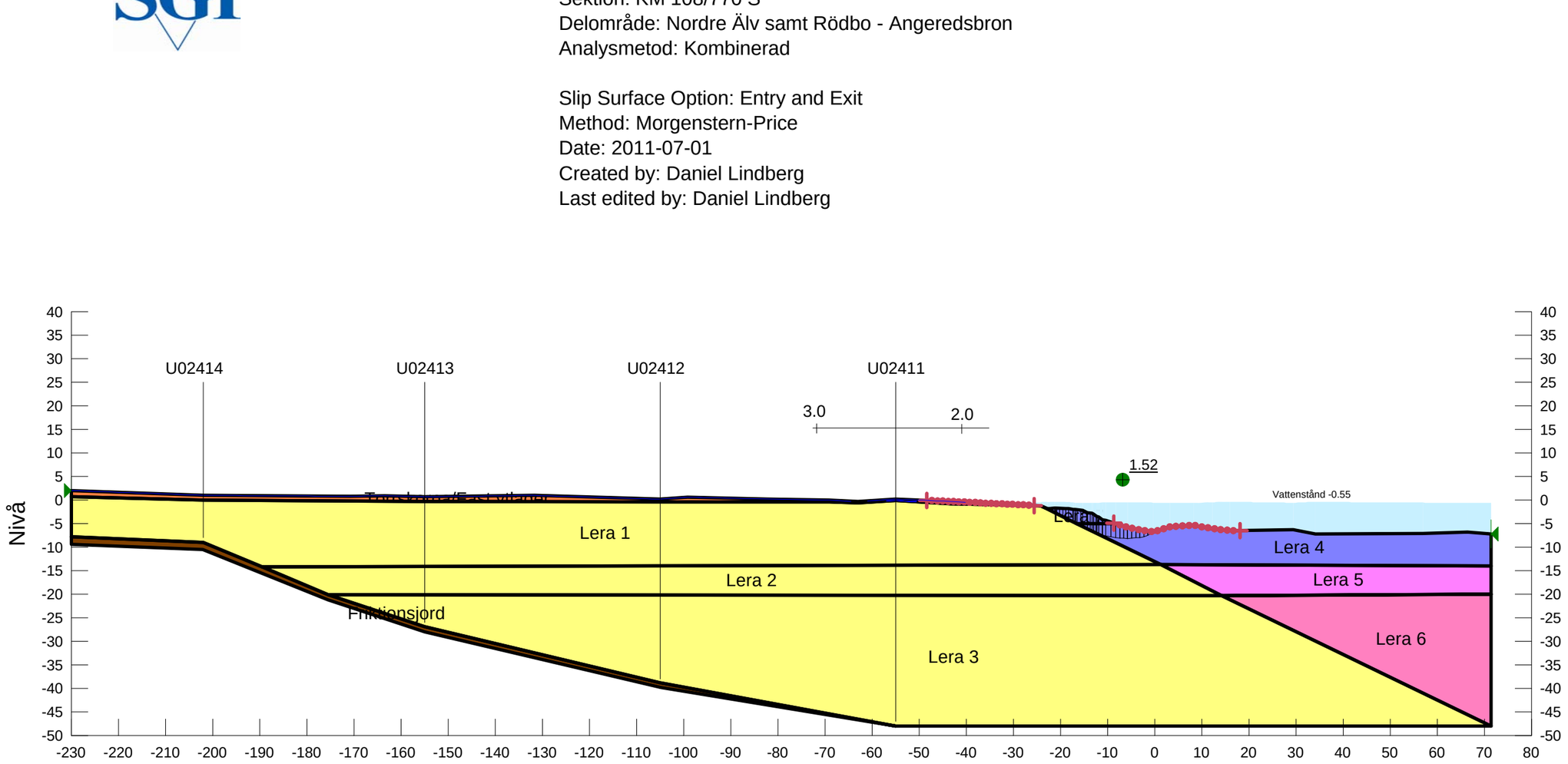
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 108/770 S
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Name: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.6 kN/m³
Phi: 30 °
C-Datum: 0.4 kPa
C-Rate of Change: 0.152 kPa/m
Cu-Datum: 4 kPa
Cu-Rate of Change: 1.52 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 0.4 kPa
C-Rate of Change: 0.152 kPa/m
Cu-Datum: 4 kPa
Cu-Rate of Change: 1.52 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 17.2 kN/m³
Phi: 30 °
C-Datum: 0.4 kPa
C-Rate of Change: 0.152 kPa/m
Cu-Datum: 4 kPa
Cu-Rate of Change: 1.52 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 14.4 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.157 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 1.57 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.157 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 1.57 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 6
Model: Combined, S=f(datum)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.157 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 1.57 kPa/m
C/Cu Ratio: 0
Elevation: -5 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Name: Lera 7
Model: Combined, S=f(depth)
Unit Weight: 14.4 kN/m³
Phi: 30 °
C-Top of Layer: 0.5 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 5 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 41\
File Name: KM 108_770 S Sekt 41 kombinerad.gsz

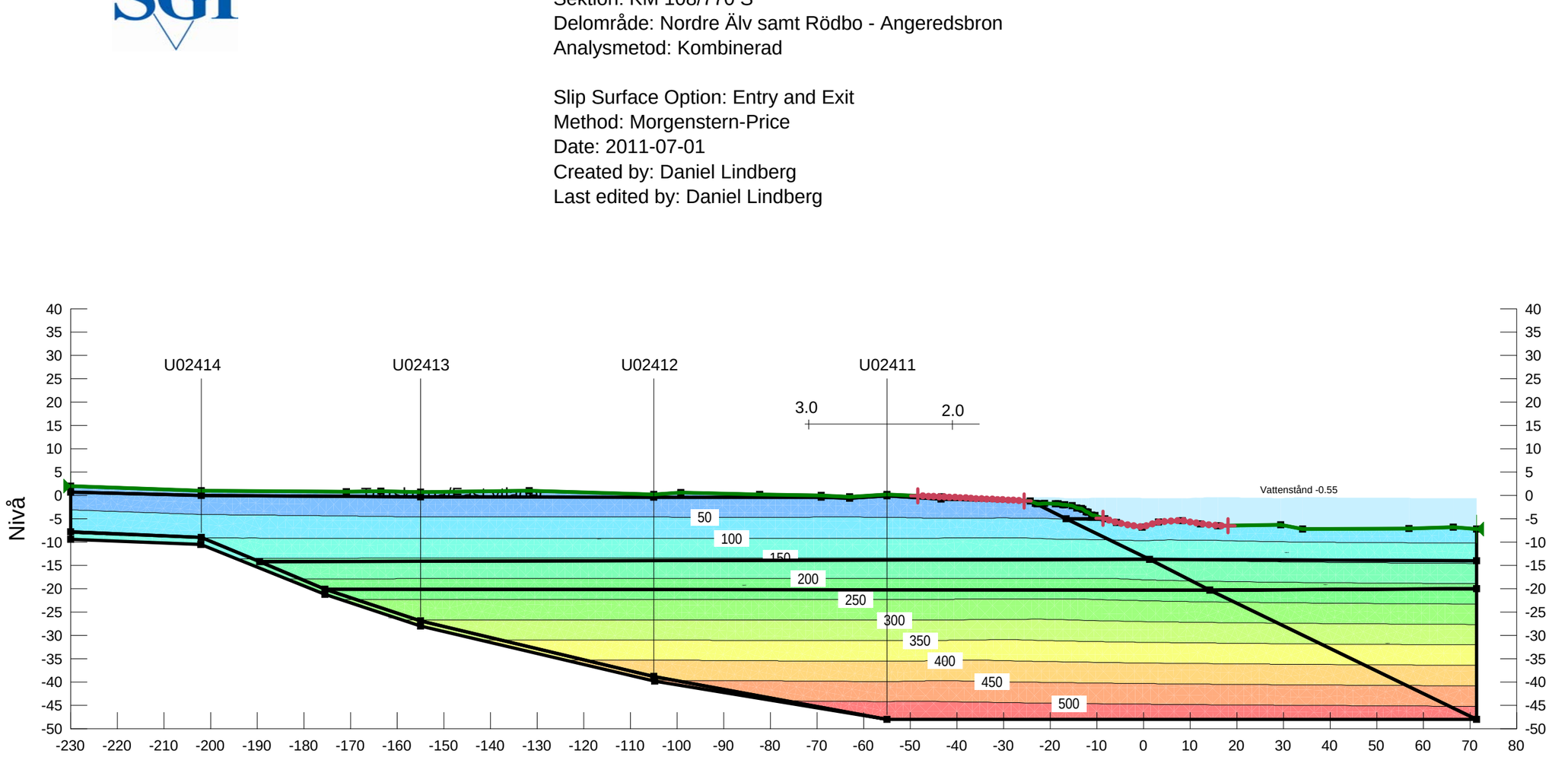
Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 108/770 S
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg

Skala 1:1000 (A3)



Name: Torrskorpa/Fast ytlager
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Name: Lera 1
Model: Combined, S=f(datum)
Unit Weight: 15.6 kN/m³
Phi: 30 °
C-Datum: 0.4 kPa
C-Rate of Change: 0.152 kPa/m
Cu-Datum: 4 kPa
Cu-Rate of Change: 1.52 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 2
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 0.4 kPa
C-Rate of Change: 0.152 kPa/m
Cu-Datum: 4 kPa
Cu-Rate of Change: 1.52 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 3
Model: Combined, S=f(datum)
Unit Weight: 17.2 kN/m³
Phi: 30 °
C-Datum: 0.4 kPa
C-Rate of Change: 0.152 kPa/m
Cu-Datum: 4 kPa
Cu-Rate of Change: 1.52 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 4
Model: Combined, S=f(datum)
Unit Weight: 14.4 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.157 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 1.57 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

Name: Lera 5
Model: Combined, S=f(datum)
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.157 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 1.57 kPa/m
C/Cu Ratio: 0.1
Elevation: -5 m

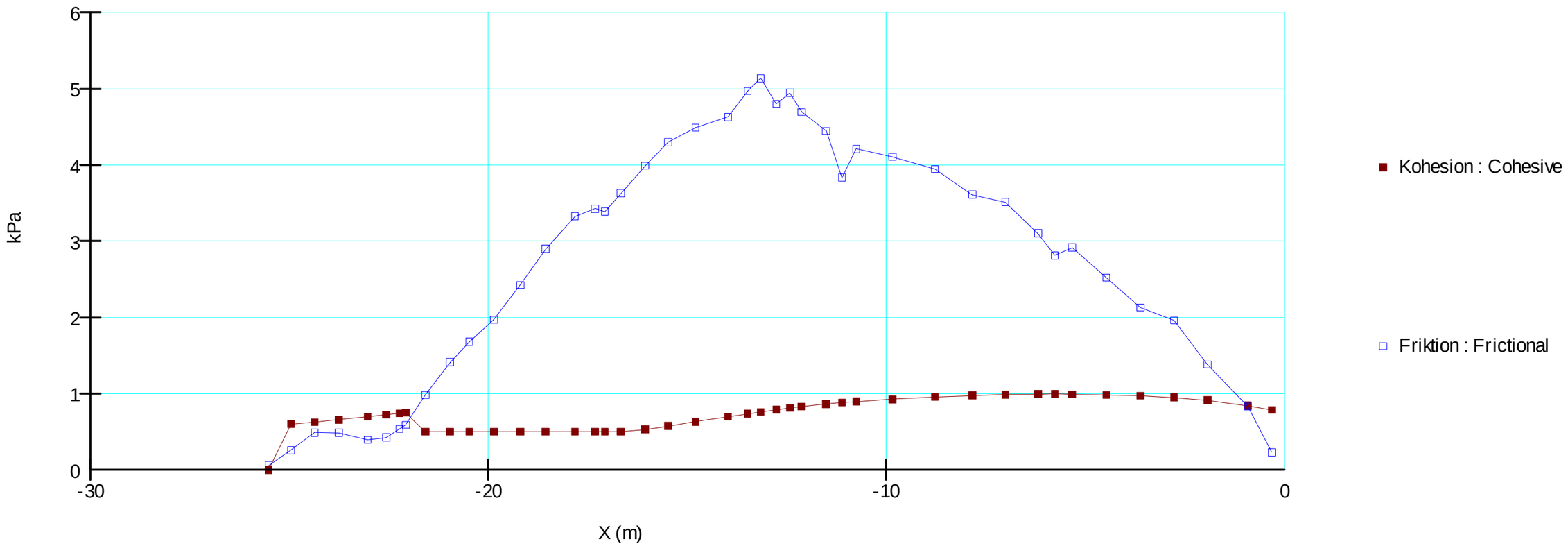
Name: Lera 6
Model: Combined, S=f(datum)
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.157 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 1.57 kPa/m
C/Cu Ratio: 0
Elevation: -5 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

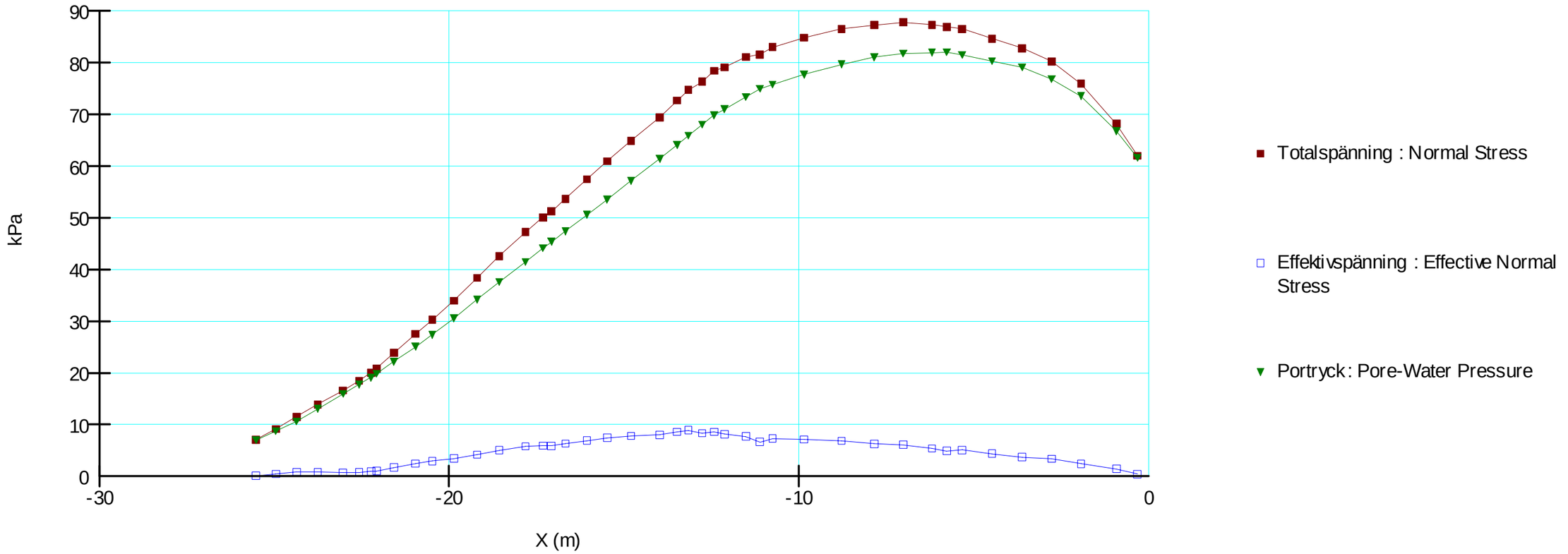
Name: Lera 7
Model: Combined, S=f(depth)
Unit Weight: 14.4 kN/m³
Phi: 30 °
C-Top of Layer: 0.5 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 5 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 41\
File Name: KM 108_770 S Sekt 41 kombinerad.gsz

Sektion 41, KM 108/770 N
Kohesion och friktion (Kombinerad analys)

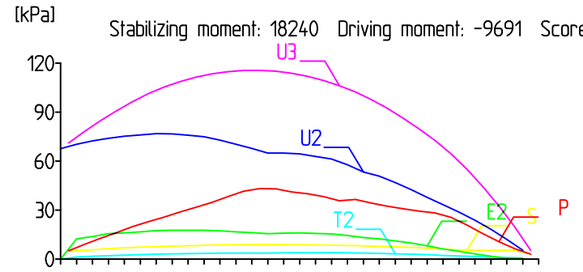


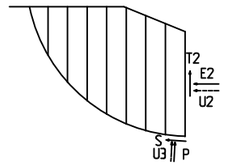
Sektion 41, KM 108/770 N
Spänningar (Kombinerad analys)

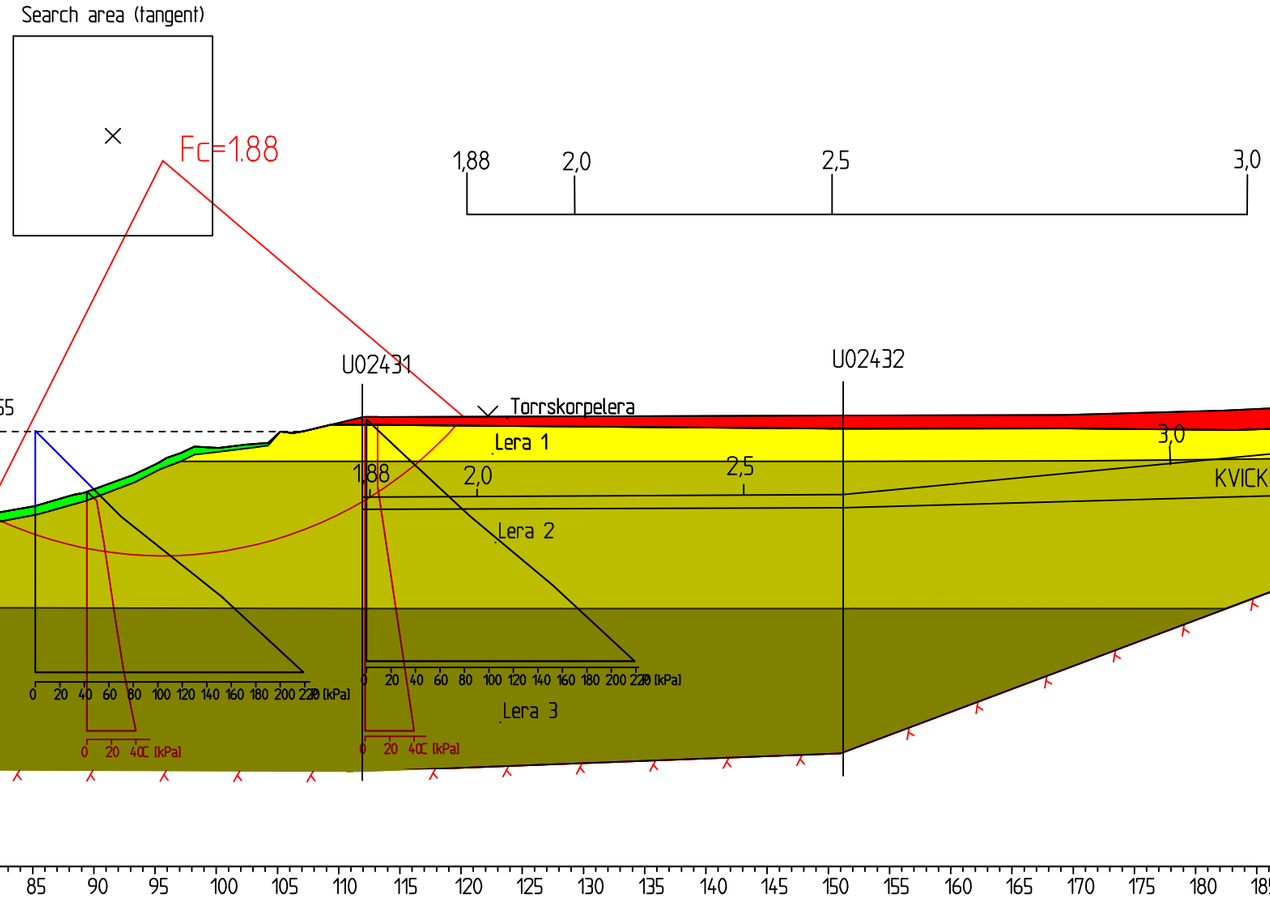


Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 43.R2

Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Torrskorpelera	18.00	30.0	10.0				
Älvbotten	16.00			C-prof	1.00	1.00	1.00
Lera 1	14.30			C-prof	1.00	1.00	1.00
Lera 2	16.20			C-prof	1.00	1.00	1.00
Lera 3	17.30			C-prof	1.00	1.00	1.00







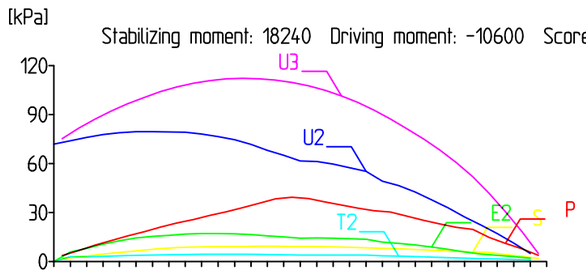
KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN
ODRÄNERAD ANALYS
SEKTION 43, (KM 109/000 N)
SKALA 1:500 (A3)
2011-06-30
o:\106278\110126_do2\gäu delområde 2\...\sektion 43.dwg

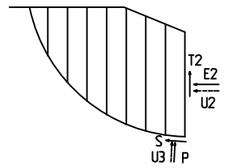
XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion 43 O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\AUTOGRAF.RIT\Sektion_13-

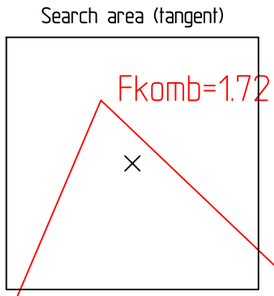
Ritning: \\srv-fil1-van\Vk-uppdrag\106278\Dokument\Arbetsmaterial\Geoteknik\Berakningar\Sektion 43\Sektion 43_odranerad.dwg Skapad av: Thelander Jonas 2011 7 04 11:45

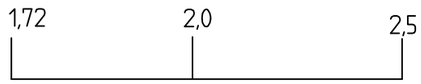
Result file : o:\106278\110126_do2\gäu delområde 2\delområde 1-10\delområde 2-14082\geoteknik\autograf-geosuite\stabgraf.rit\sektion 43 - kombinerad.R2

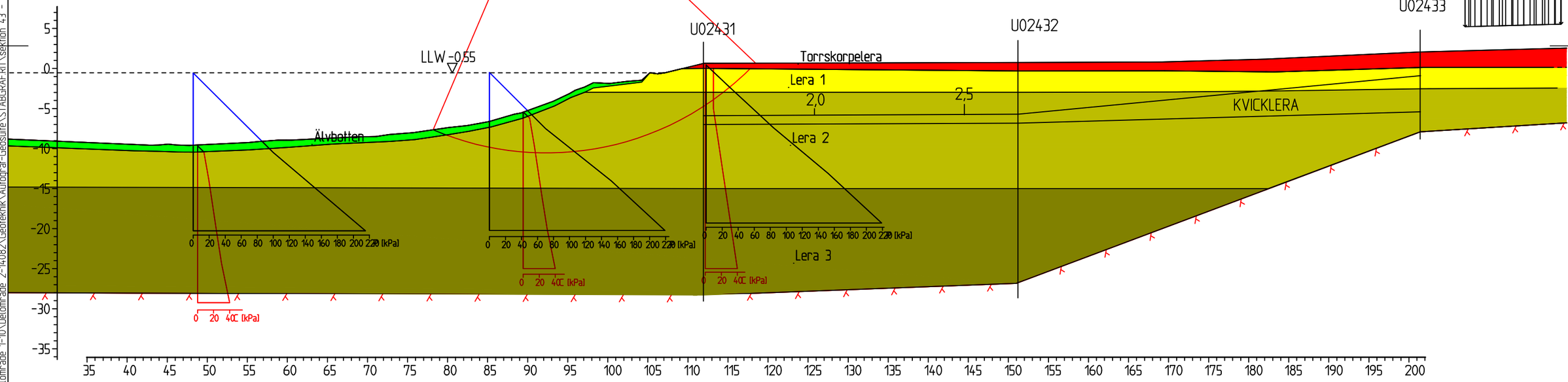
Material	Un.Weigth	Fi	C`	C	Aa	Ad	Ap
Torrskorpelera	18.00	30.0	10%	100.0	1.00	1.00	1.00
Älvbotten	16.00	30.0	10%	C-prof	1.00	1.00	1.00
Lera 1	14.30	30.0	10%	C-prof	1.00	1.00	1.00
Lera 2	16.20	30.0	10%	C-prof	1.00	1.00	1.00
Lera 3	17.30	30.0	10%	C-prof	1.00	1.00	1.00











KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

KOMBINERAD ANALYS

SEKTION 43, (KM 109/000 N)

SKALA 1:500 (A3)

2011-06-30

o:\106278\110126_do2\gäu delområde 2\...\sektion 43.dwg

XREF: O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion 43 - kombinerad O:\106278\110126_Do2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Autograf-Geosuite\STABGRAF.RIT\sektion 43 - kombinerad.dwg

Ritning: \\srv-fil1-van\Vk-uppdrag\106278\Dokument\Arbetsmaterial\Geoteknik\Beräkningar\Sektion 43\Sektion 43_KOMB.dwg Skapad av: Thelander Jonas 2011 7 04 11:43

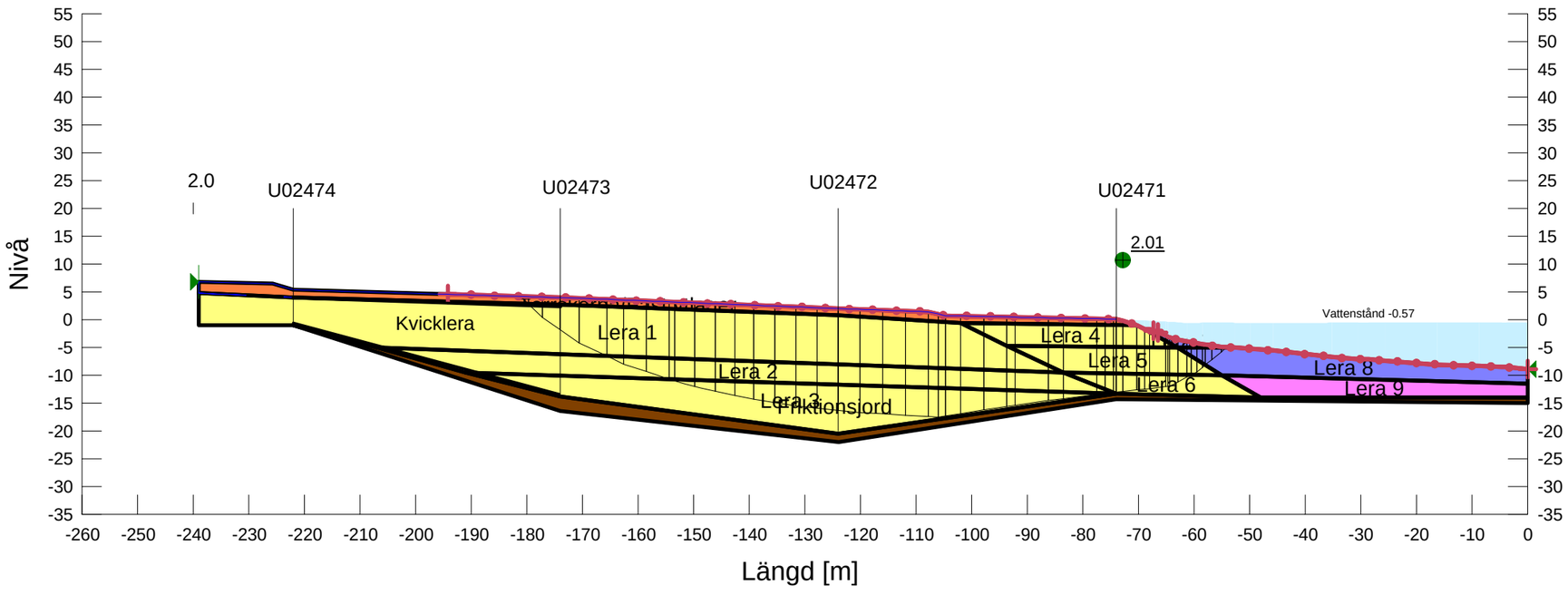
Göta älvutredningen

Skala 1:1000 (A3)

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 111/370 S
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Odränerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-06-22
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg



Name: Torrskorpa/Fast ytlager
Model: Undrained (Phi=0)
Unit Weight: 18 kN/m³
Cohesion: 30 kPa

Name: Lera 1
Model: S=f(depth)
Unit Weight: 15.6 kN/m³
C-Top of Layer: 8 kPa
C-Rate of Change: 0.84 kPa/m
Limiting C: 0 kPa

Name: Lera 2
Model: S=f(depth)
Unit Weight: 16 kN/m³
C-Top of Layer: 15.4 kPa
C-Rate of Change: 0.84 kPa/m
Limiting C: 0 kPa

Name: Lera 3
Model: S=f(depth)
Unit Weight: 17.2 kN/m³
C-Top of Layer: 18.8 kPa
C-Rate of Change: 0.84 kPa/m
Limiting C: 0 kPa

Name: Lera 4
Model: S=f(depth)
Unit Weight: 14.8 kN/m³
C-Top of Layer: 8 kPa
C-Rate of Change: 0.84 kPa/m
Limiting C: 0 kPa

Name: Lera 5
Model: S=f(depth)
Unit Weight: 15.4 kN/m³
C-Top of Layer: 11.2 kPa
C-Rate of Change: 0.84 kPa/m
Limiting C: 0 kPa

Name: Lera 6
Model: S=f(depth)
Unit Weight: 16.3 kN/m³
C-Top of Layer: 15.4 kPa
C-Rate of Change: 0.84 kPa/m
Limiting C: 0 kPa

Name: Lera 7
Model: S=f(datum)
Unit Weight: 14.8 kN/m³
C-Datum: 5 kPa
C-Rate of Change: 0.92 kPa/m
Limiting C: 0 kPa
Elevation: 0 m

Name: Lera 8
Model: S=f(datum)
Unit Weight: 15.4 kN/m³
C-Datum: 5 kPa
C-Rate of Change: 0.92 kPa/m
Limiting C: 0 kPa
Elevation: 0 m

Name: Lera 9
Model: S=f(datum)
Unit Weight: 16.3 kN/m³
C-Datum: 5 kPa
C-Rate of Change: 0.92 kPa/m
Limiting C: 0 kPa
Elevation: 0 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 47\
File Name: KM 111_370 S Sekt 47 odränerad.gsz

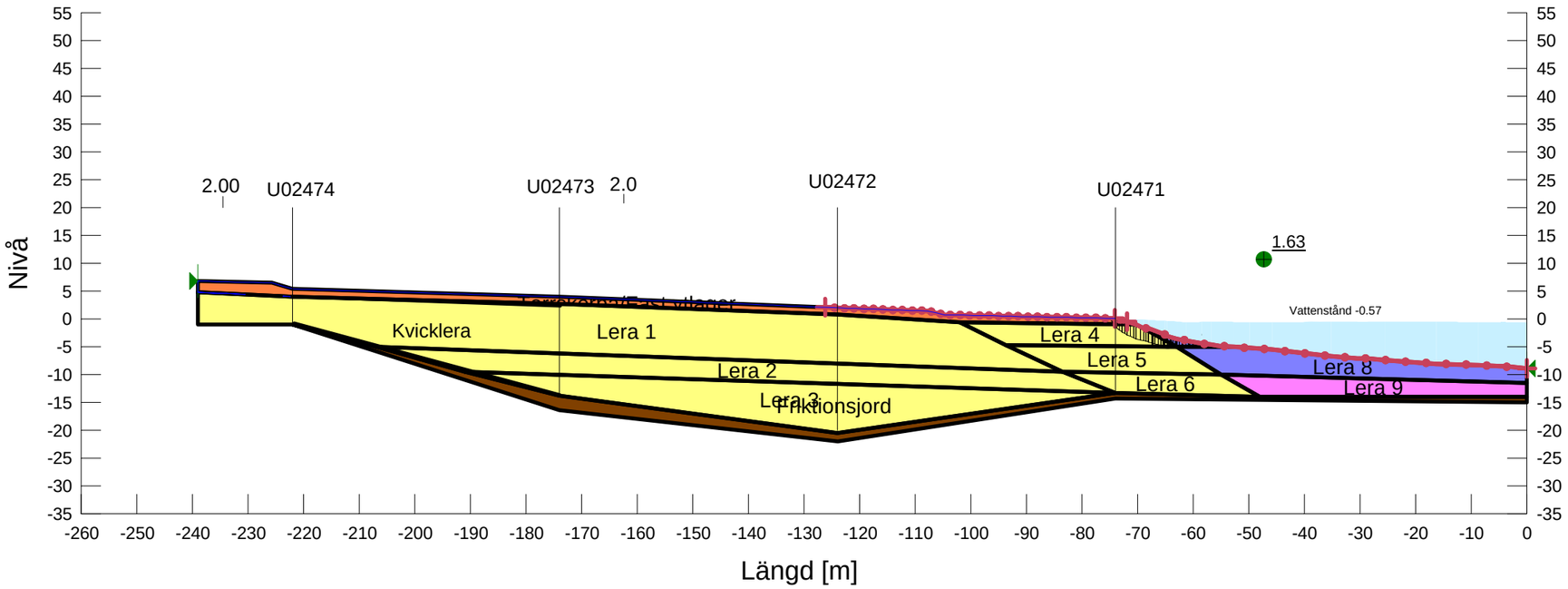
Skala 1:1000 (A3)

Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 111/370 S
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-07-01
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(depth)
Unit Weight: 15.6 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.54 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 15.4 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 3
Model: Combined, S=f(depth)
Unit Weight: 17.2 kN/m³
Phi: 30 °
C-Top of Layer: 18.8 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 18.8 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 4
Model: Combined, S=f(depth)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 5
Model: Combined, S=f(depth)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Top of Layer: 1.12 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 11.2 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 6
Model: Combined, S=f(depth)
Unit Weight: 16.3 kN/m³
Phi: 30 °
C-Top of Layer: 1.54 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 15.4 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 7
Model: Combined, S=f(datum)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.092 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 0.92 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 8
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.092 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 0.92 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 9
Model: Combined, S=f(datum)
Unit Weight: 16.3 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.092 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 0.92 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 47\
File Name: KM 111_370 S Sekt 47 Kombinerad.gsz

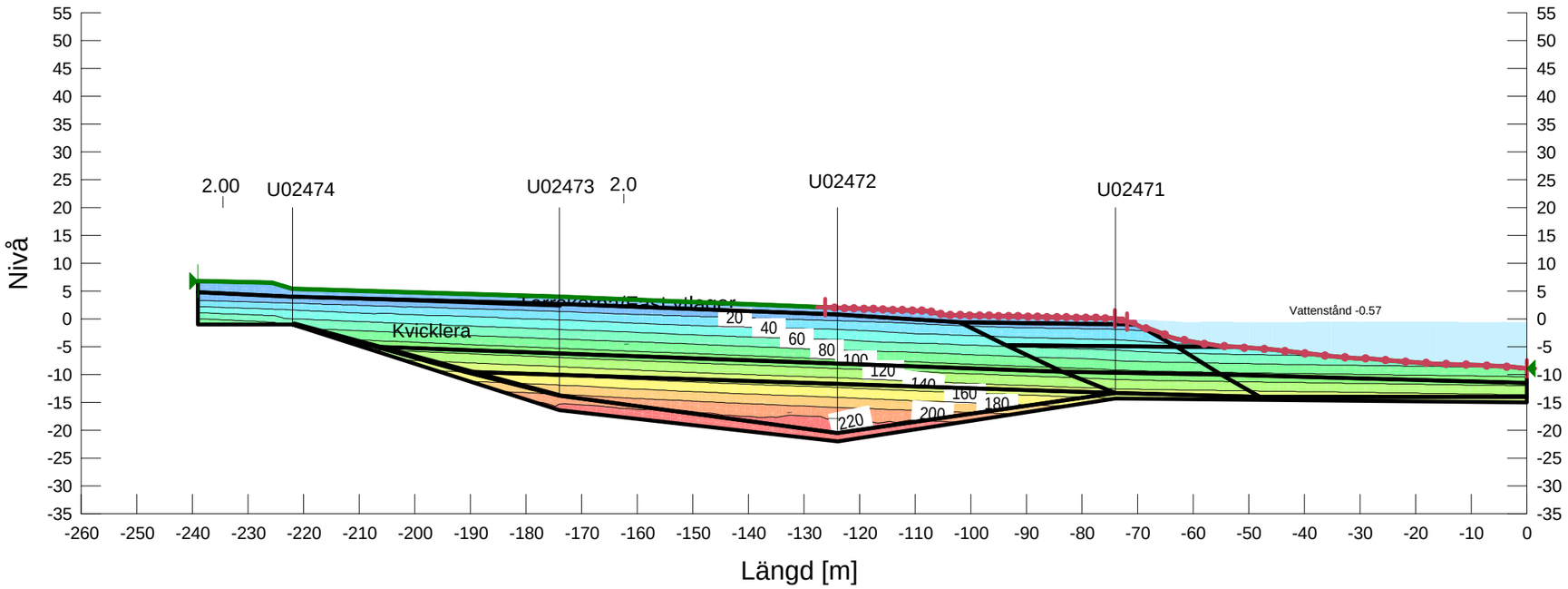
Skala 1:1000 (A3)

Göta älvutredningen

KLIMATANPASSNING SKREDFÖRUTSÄTTNINGAR I GÖTA ÄLVDALEN

Sektion: KM 111/370 S
Delområde: Nordre Älv samt Rödbo - Angeredsbron
Analysmetod: Kombinerad

Slip Surface Option: Entry and Exit
Method: Morgenstern-Price
Date: 2011-10-05
Created by: Daniel Lindberg
Last edited by: Daniel Lindberg



Name: Torrskorpa/Fast ytlager
Model: Combined, S=f(depth)
Unit Weight: 18 kN/m³
Phi: 30 °
C-Top of Layer: 3 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: Lera 1
Model: Combined, S=f(depth)
Unit Weight: 15.6 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 2
Model: Combined, S=f(depth)
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 1.54 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 15.4 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 3
Model: Combined, S=f(depth)
Unit Weight: 17.2 kN/m³
Phi: 30 °
C-Top of Layer: 18.8 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 18.8 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 4
Model: Combined, S=f(depth)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Top of Layer: 0.8 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 8 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 5
Model: Combined, S=f(depth)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Top of Layer: 1.12 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 11.2 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 6
Model: Combined, S=f(depth)
Unit Weight: 16.3 kN/m³
Phi: 30 °
C-Top of Layer: 1.54 kPa
C-Rate of Change: 0.084 kPa/m
Cu-Top of Layer: 15.4 kPa
Cu-Rate of Change: 0.84 kPa/m
C/Cu Ratio: 0.1

Name: Lera 7
Model: Combined, S=f(datum)
Unit Weight: 14.8 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.092 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 0.92 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

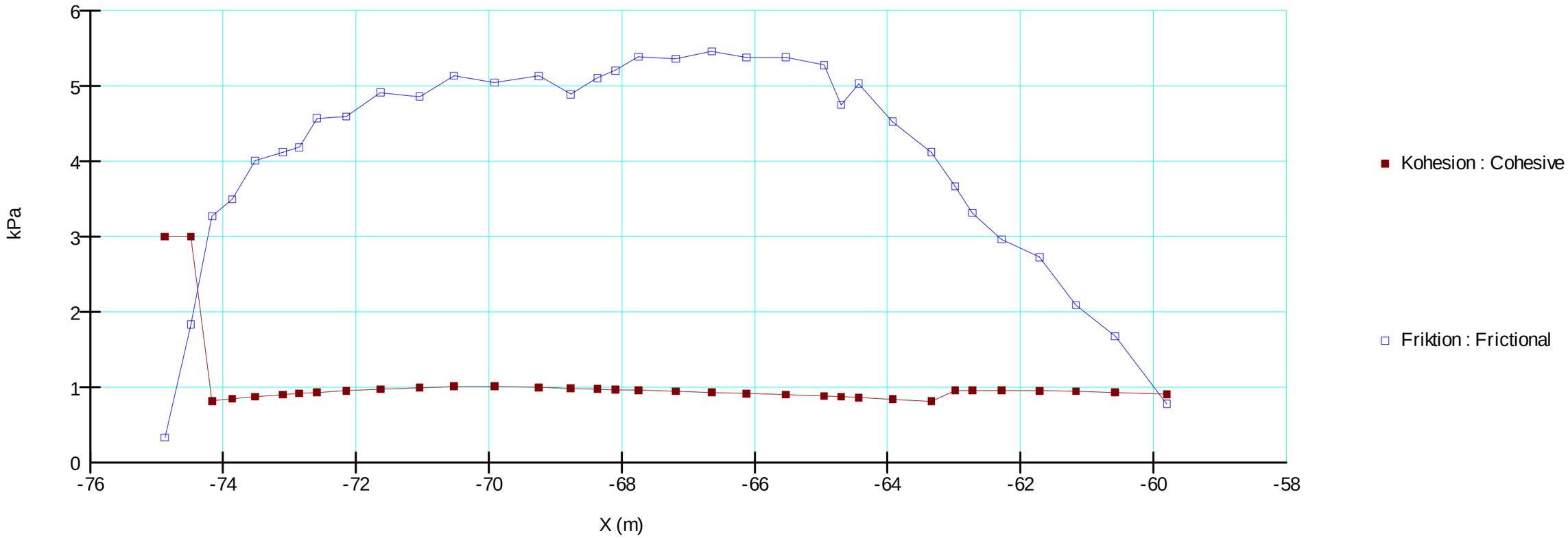
Name: Lera 8
Model: Combined, S=f(datum)
Unit Weight: 15.4 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.092 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 0.92 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Lera 9
Model: Combined, S=f(datum)
Unit Weight: 16.3 kN/m³
Phi: 30 °
C-Datum: 0.5 kPa
C-Rate of Change: 0.092 kPa/m
Cu-Datum: 5 kPa
Cu-Rate of Change: 0.92 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 m

Name: Friktionsjord
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 35 °

Directory: \\Anita\uppdrag\2010\U10086_Göta älv delområde 2\GÄU delområde 2\Delområde 1-10\Delområde 2-14082\Geoteknik\Arbetsmaterial\Beräkningar\Sektion 47\
File Name: KM 111_370 S Sekt 47 Kombinerad.gsz

Sektion 47, KM 111/370 S
Kohesion och friktion (Kombinerad analys)



Sektion 47, KM 111/370 S
Spänningar (Kombinerad analys)