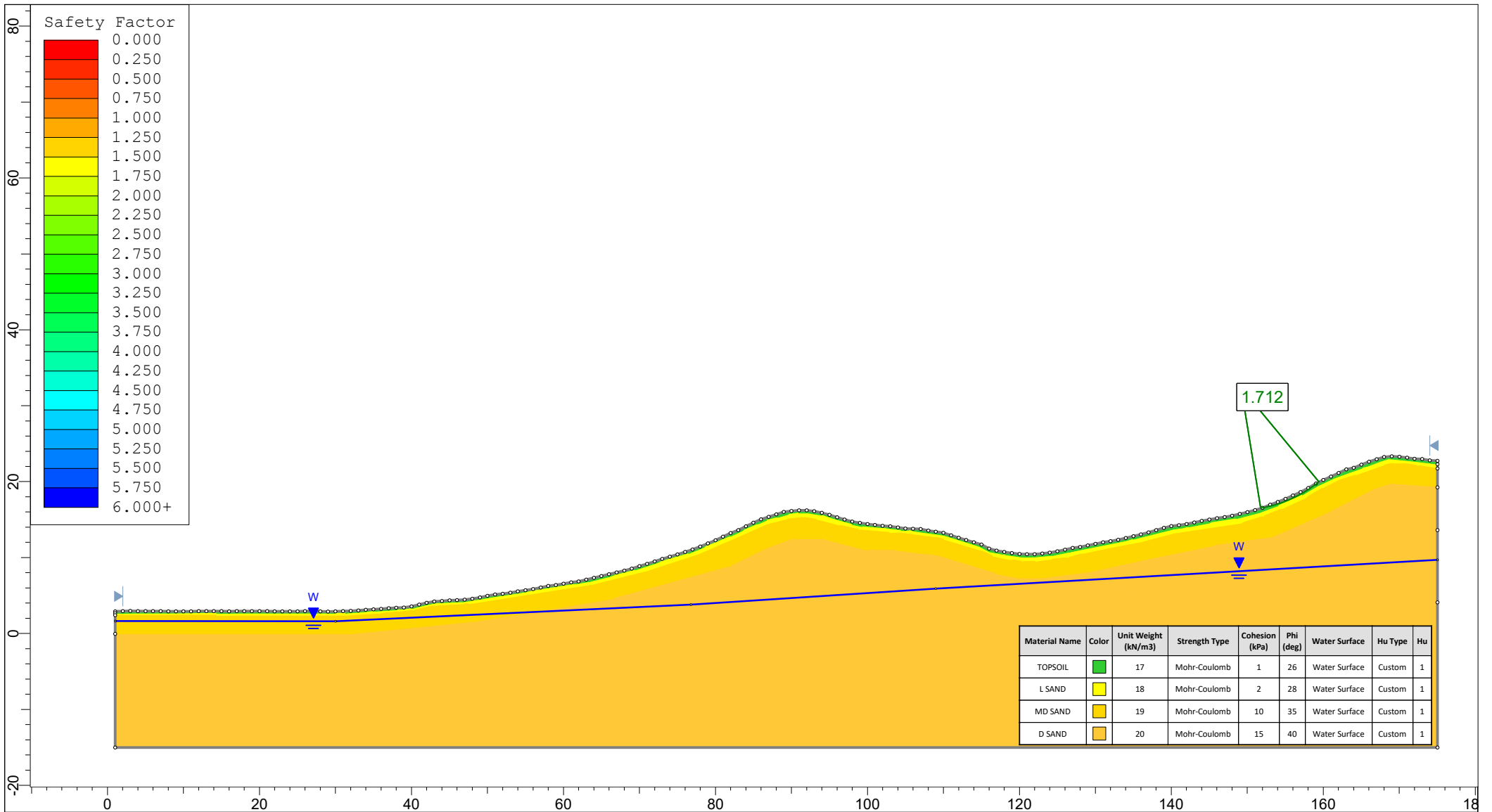



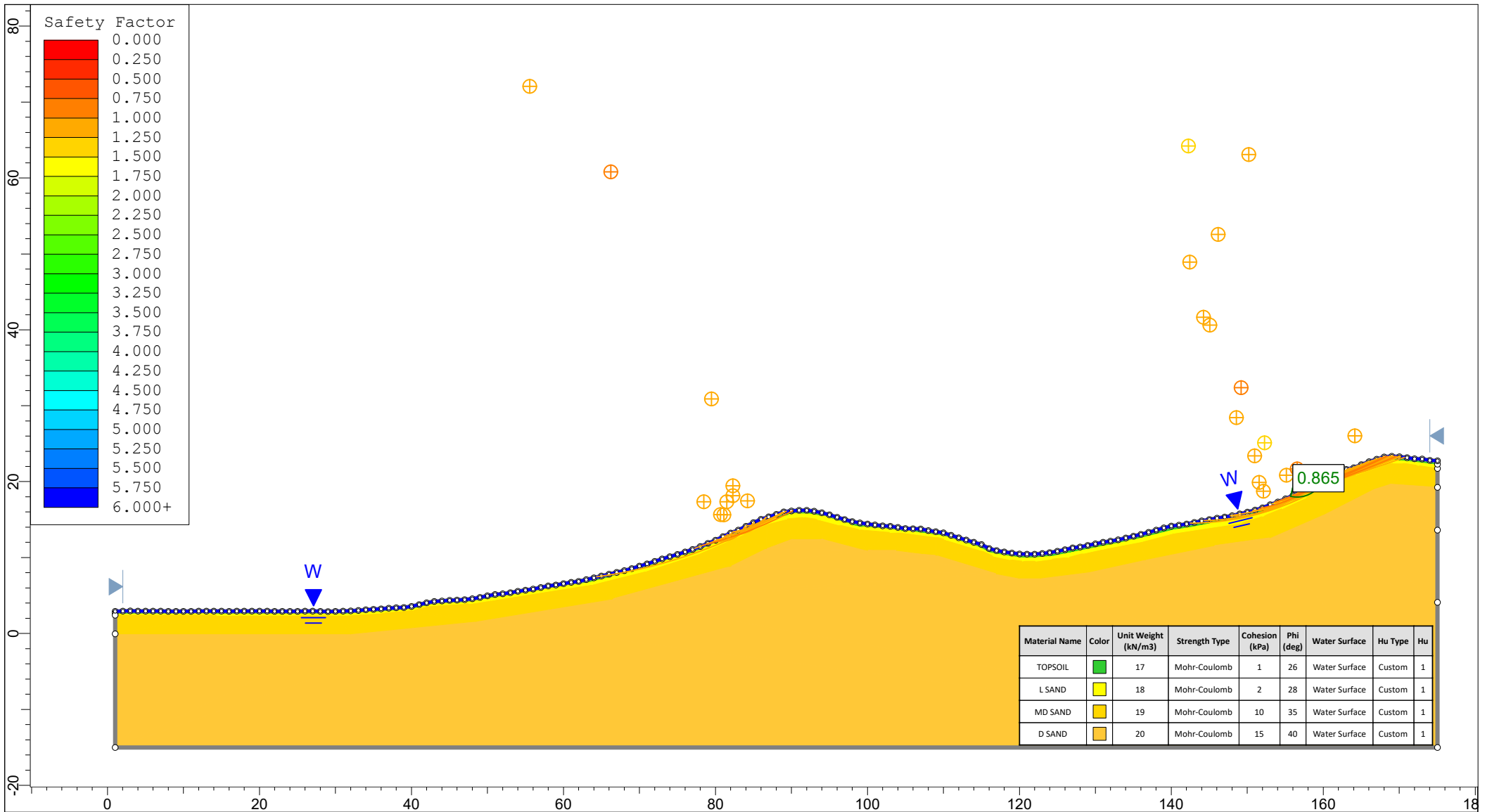
Appendix J: Slope Stability Outputs

Existing Site Slope Stability Outputs

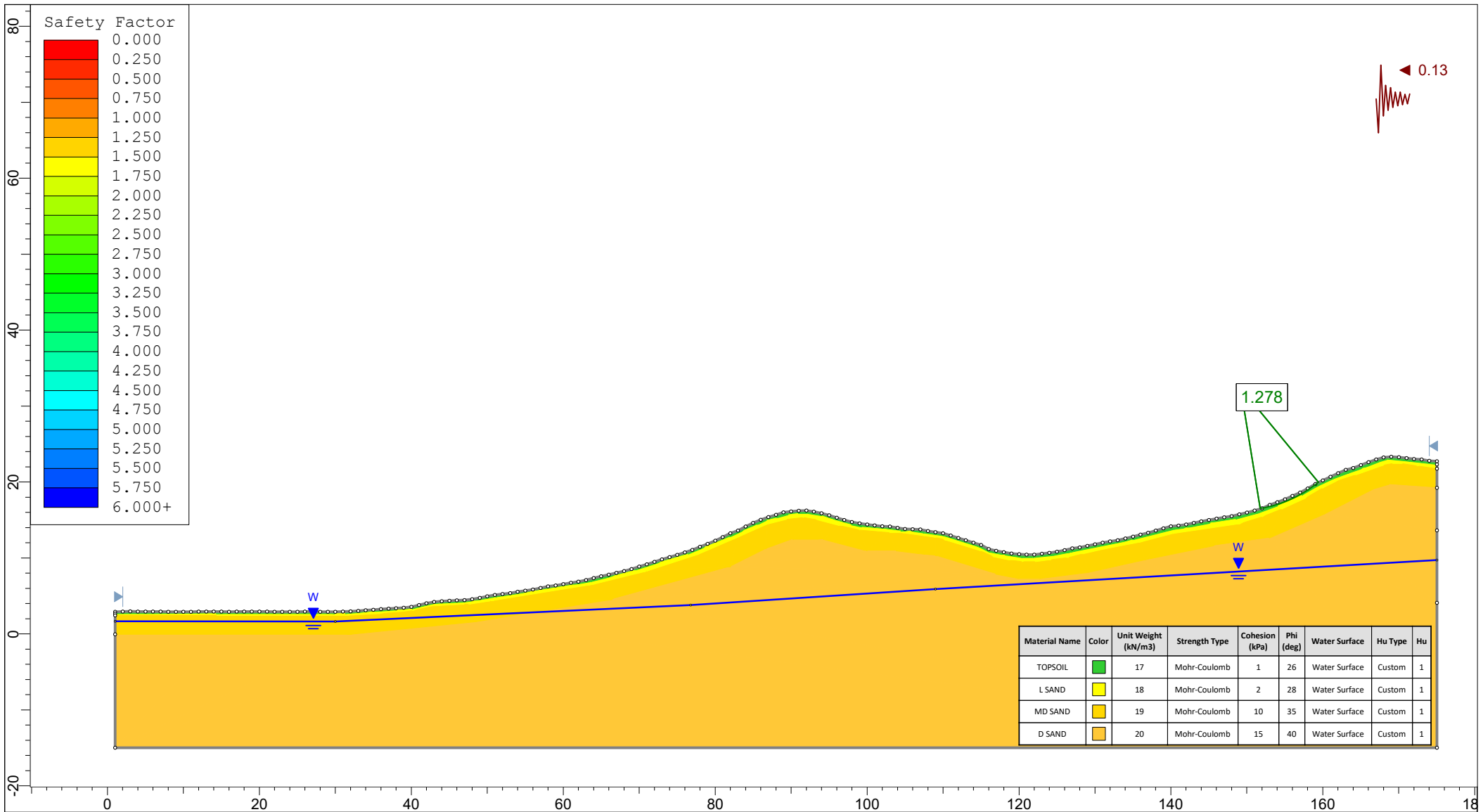



Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Hu Type	Hu
TOPSOIL	Green	17	Mohr-Coulomb	1	26	Water Surface	Custom	1
L SAND	Yellow	18	Mohr-Coulomb	2	28	Water Surface	Custom	1
MD SAND	Orange	19	Mohr-Coulomb	10	35	Water Surface	Custom	1
D SAND	Dark Orange	20	Mohr-Coulomb	15	40	Water Surface	Custom	1

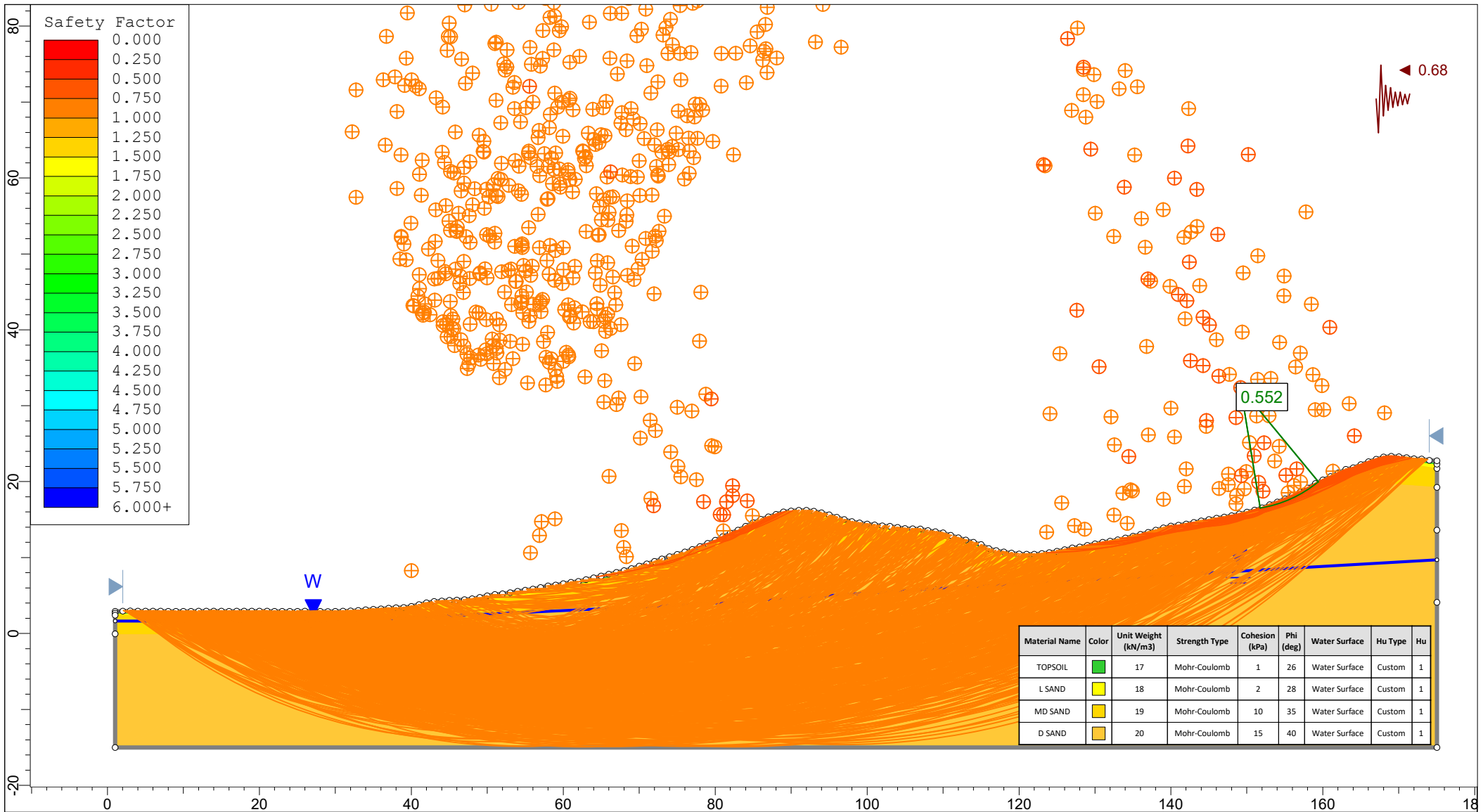
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	Analysis Description			A - A' - Static		
	Drawn By	CG	Scale	1:700	Company	CGW Consulting Engineers
	Date		File Name	21512_Waikanae North_A-A' - Static.slim		



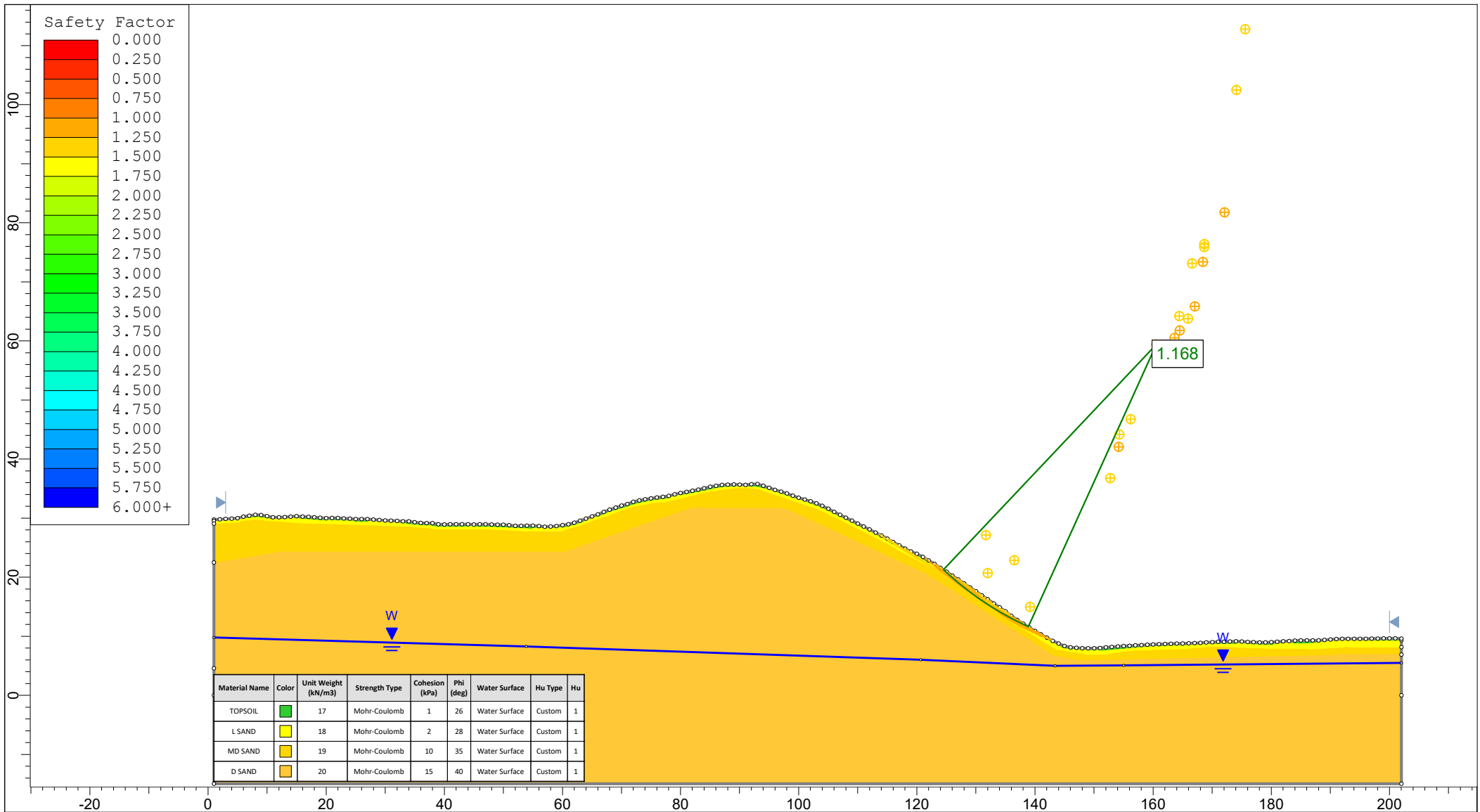
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	Analysis Description			A - A' - Extreme Groundwater		
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	Date		File Name	21512_Waikanae North_A-A' - EGW.slim		




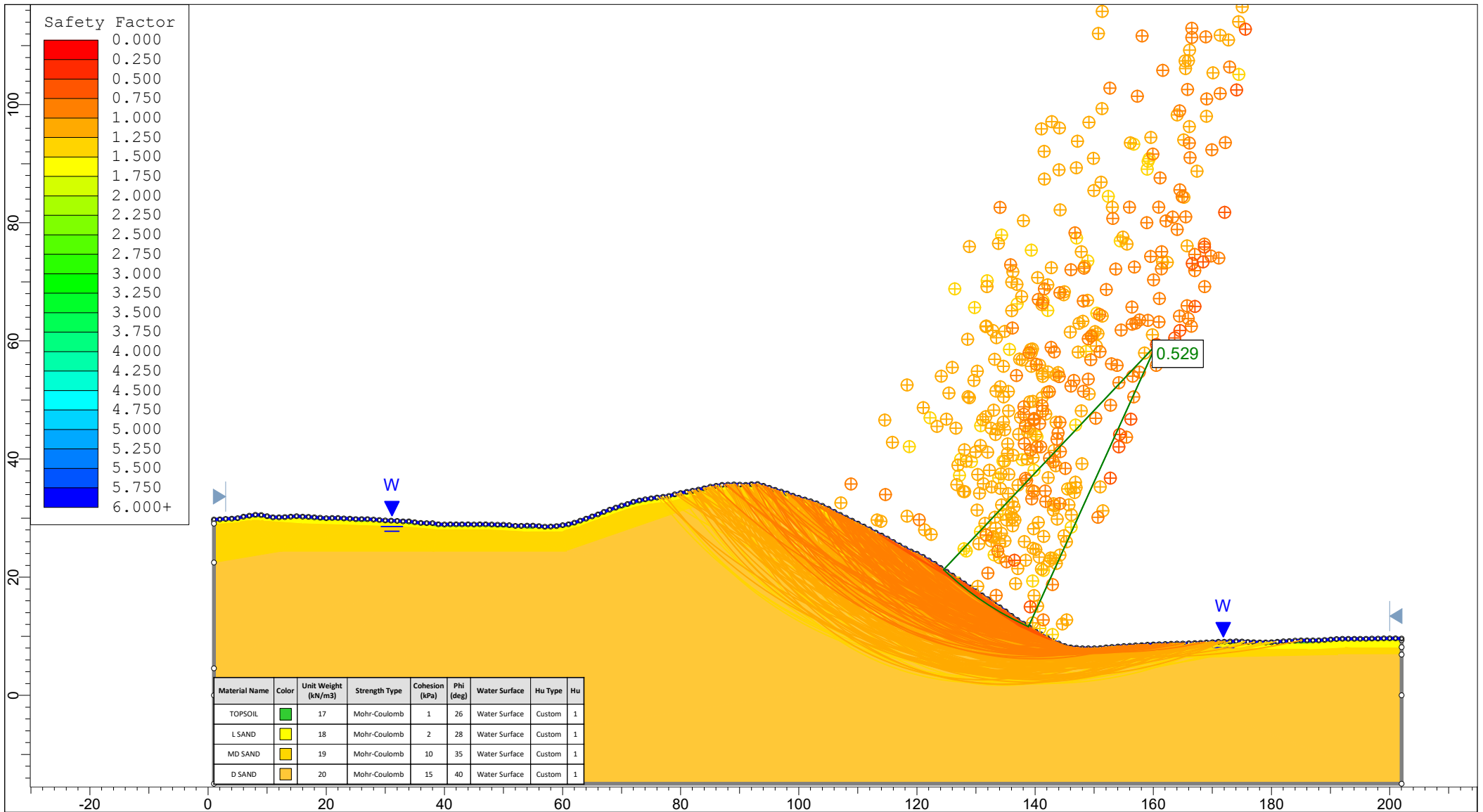
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	Drawn By	CG	Scale	1:700	Company	CGW Consulting Engineers
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<i>Project</i>		21512 - Waikanae North Development	
<i>Analysis Description</i>		A - A' - Seismic - ULS	
<i>Drawn By</i>	CG	<i>Scale</i>	1:700
<i>Company</i>	CGW Consulting Engineers		
<i>Date</i>		<i>File Name</i>	21512_Waikanae North_A-A' - ULS.slim

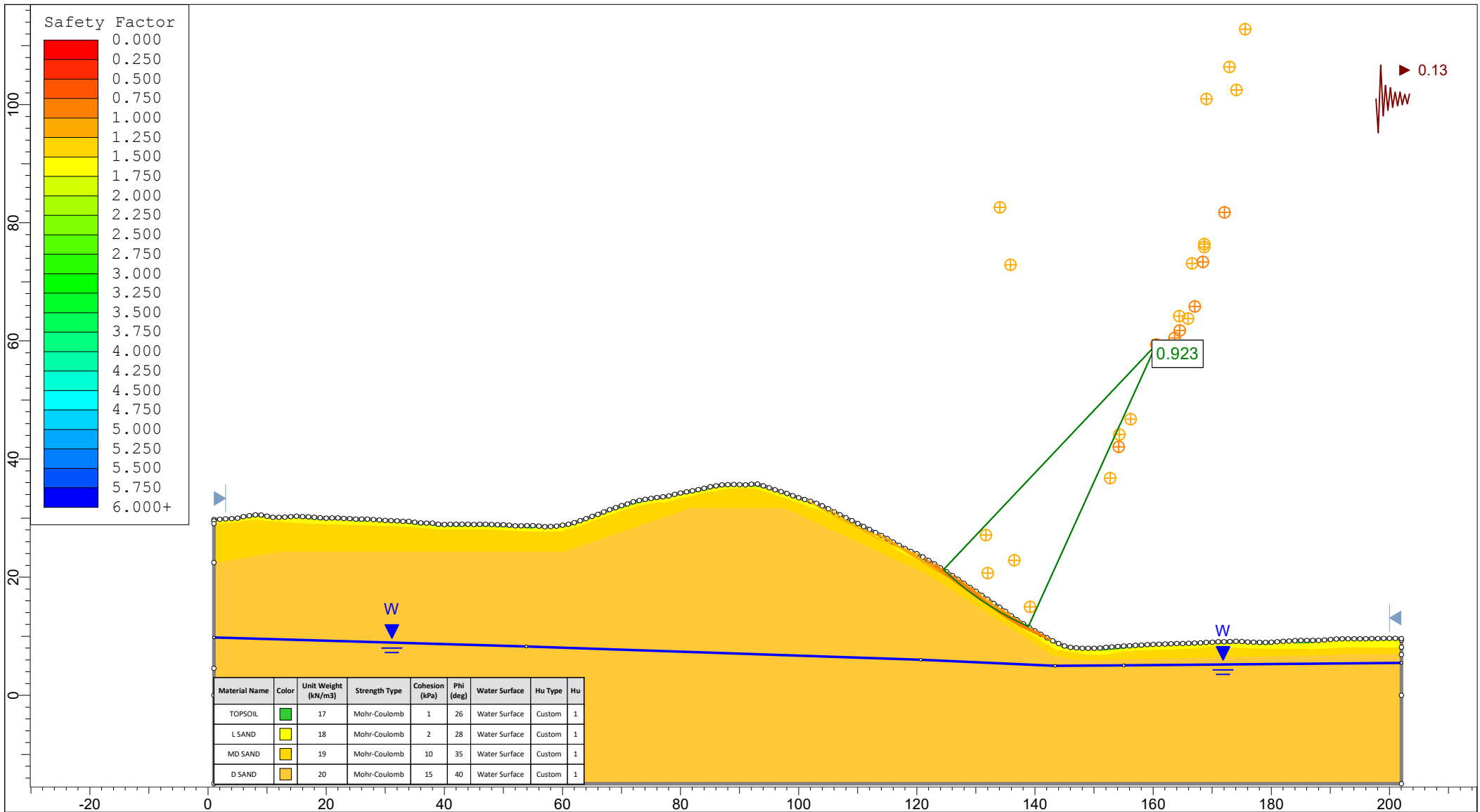


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	Analysis Description			B - B' - Static		
	Drawn By	CG	Scale	1:900	Company	CGW Consulting Engineers
	Date		File Name	21512_Waikanae North_B-B' - Static.slim		

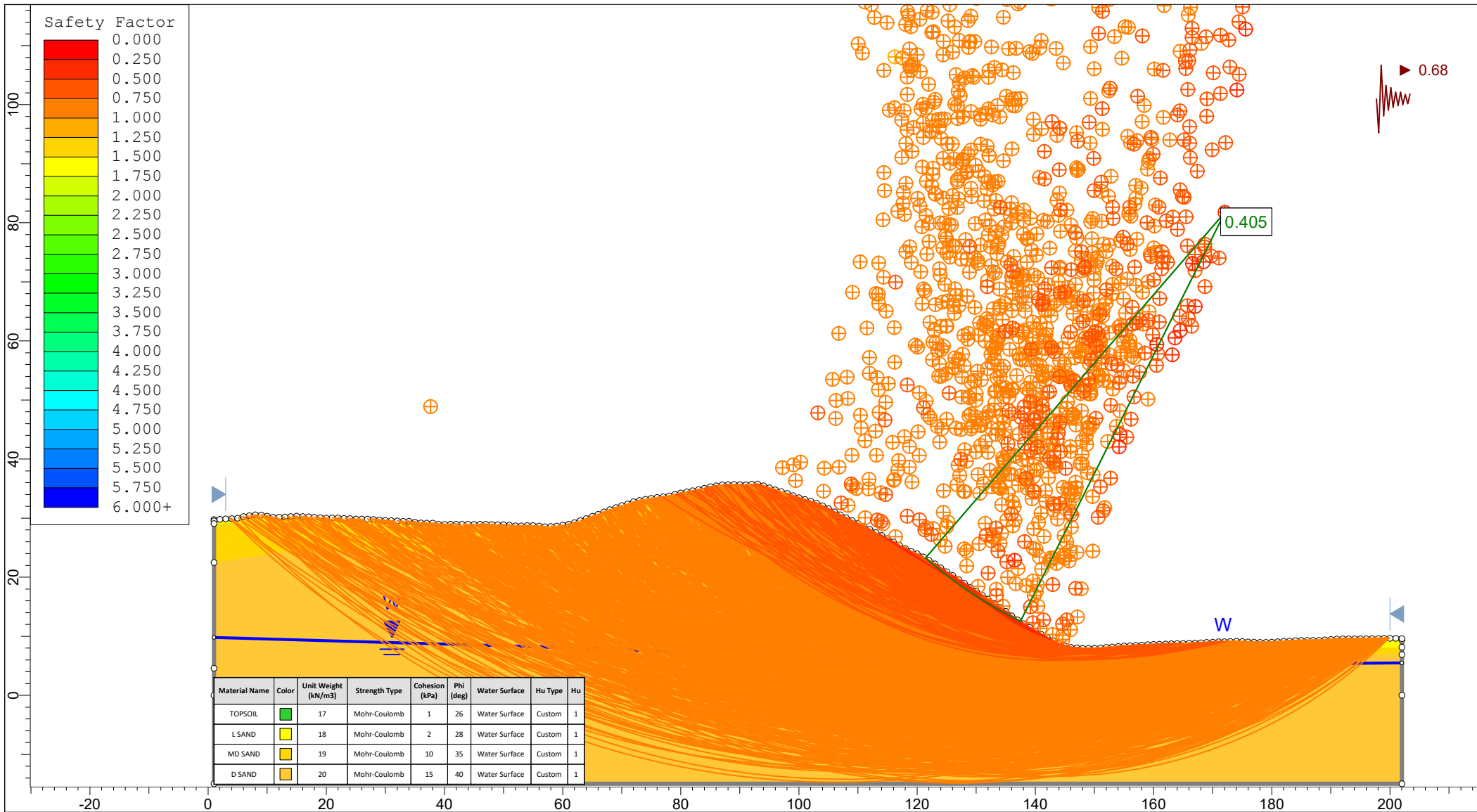



SLIDEINTERPRET 6.039

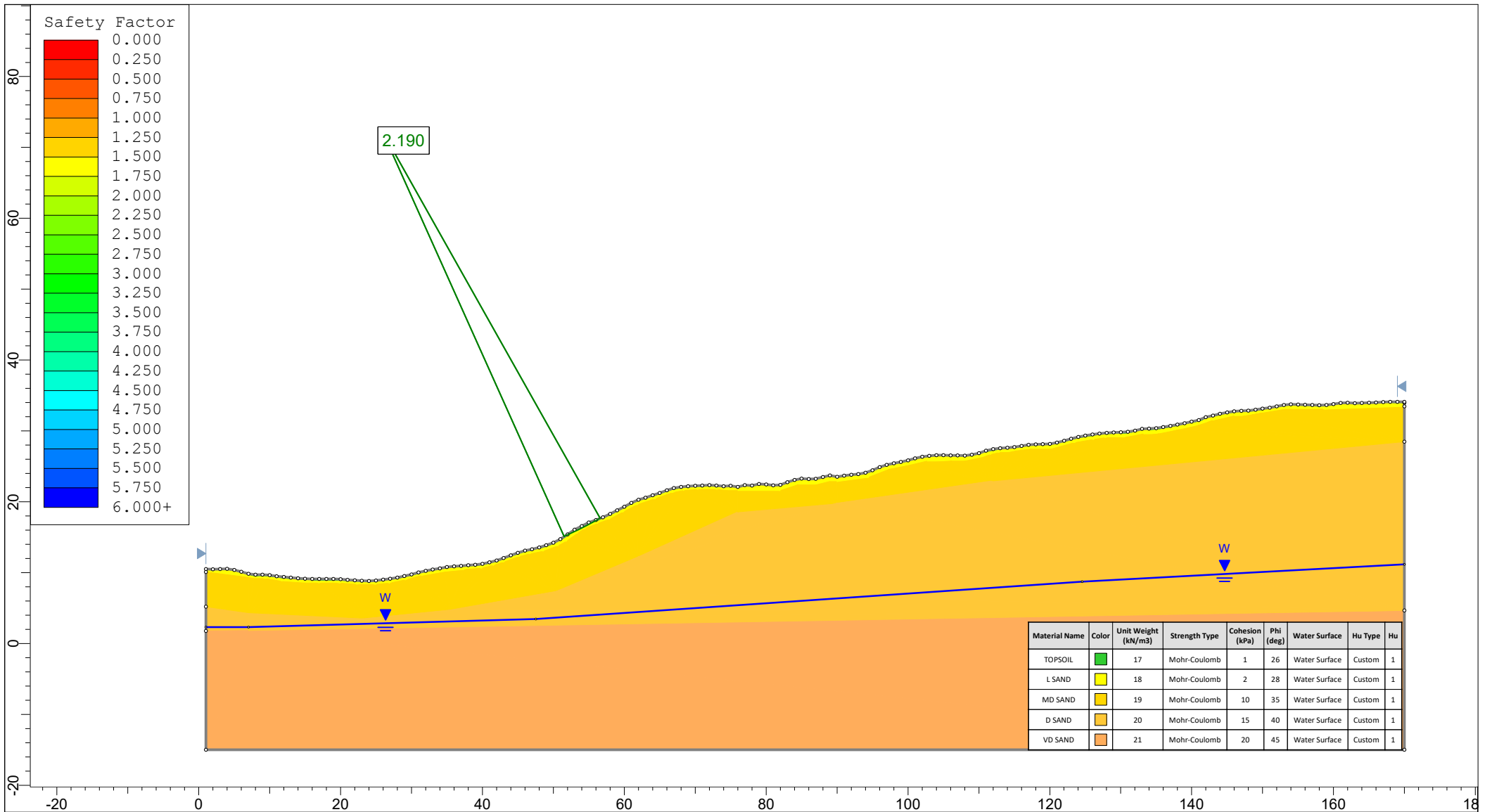
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Analysis Description		B - B' - Extreme Groundwater	
Drawn By	CG	Scale	1:900
Company		CGW Consulting Engineers	
Date		File Name	
		21512_Waikanae North_B-B' - EGW.slim	



	Project			21512 - Waikanae North Development		
	Analysis Description			B - B' - Seismic - SLS		
	Drawn By	CG	Scale	1:900	Company	CGW Consulting Engineers
	Date		File Name	21512_Waikanae North_B-B' - SLS.slim		



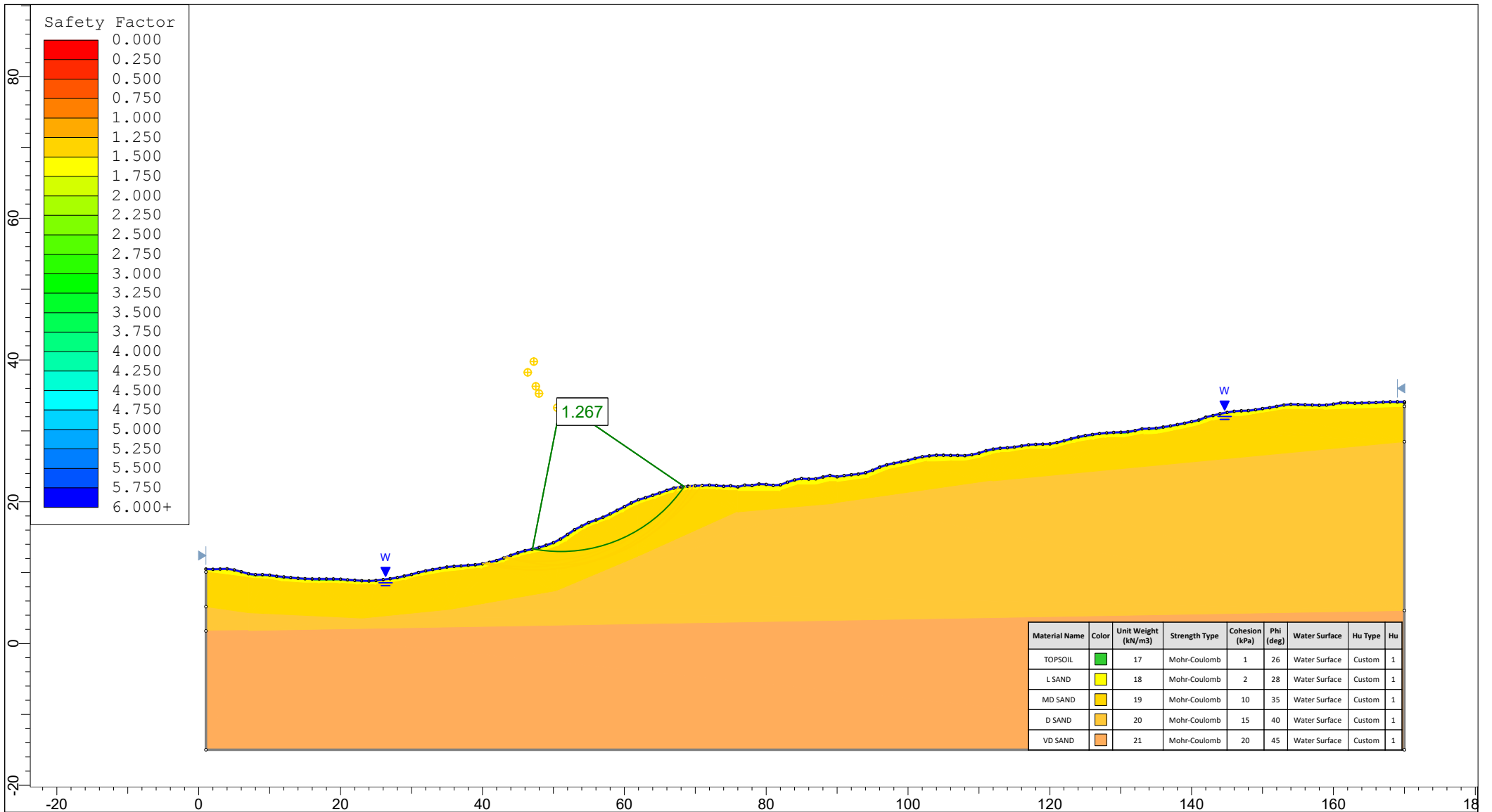
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	Date		File Name	21512_Waikanae North_B-B' - ULS.slim		



Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Hu Type	Hu
TOPSOIL	Green	17	Mohr-Coulomb	1	26	Water Surface	Custom	1
L SAND	Yellow	18	Mohr-Coulomb	2	28	Water Surface	Custom	1
MD SAND	Orange	19	Mohr-Coulomb	10	35	Water Surface	Custom	1
D SAND	Light Orange	20	Mohr-Coulomb	15	40	Water Surface	Custom	1
VD SAND	Dark Orange	21	Mohr-Coulomb	20	45	Water Surface	Custom	1



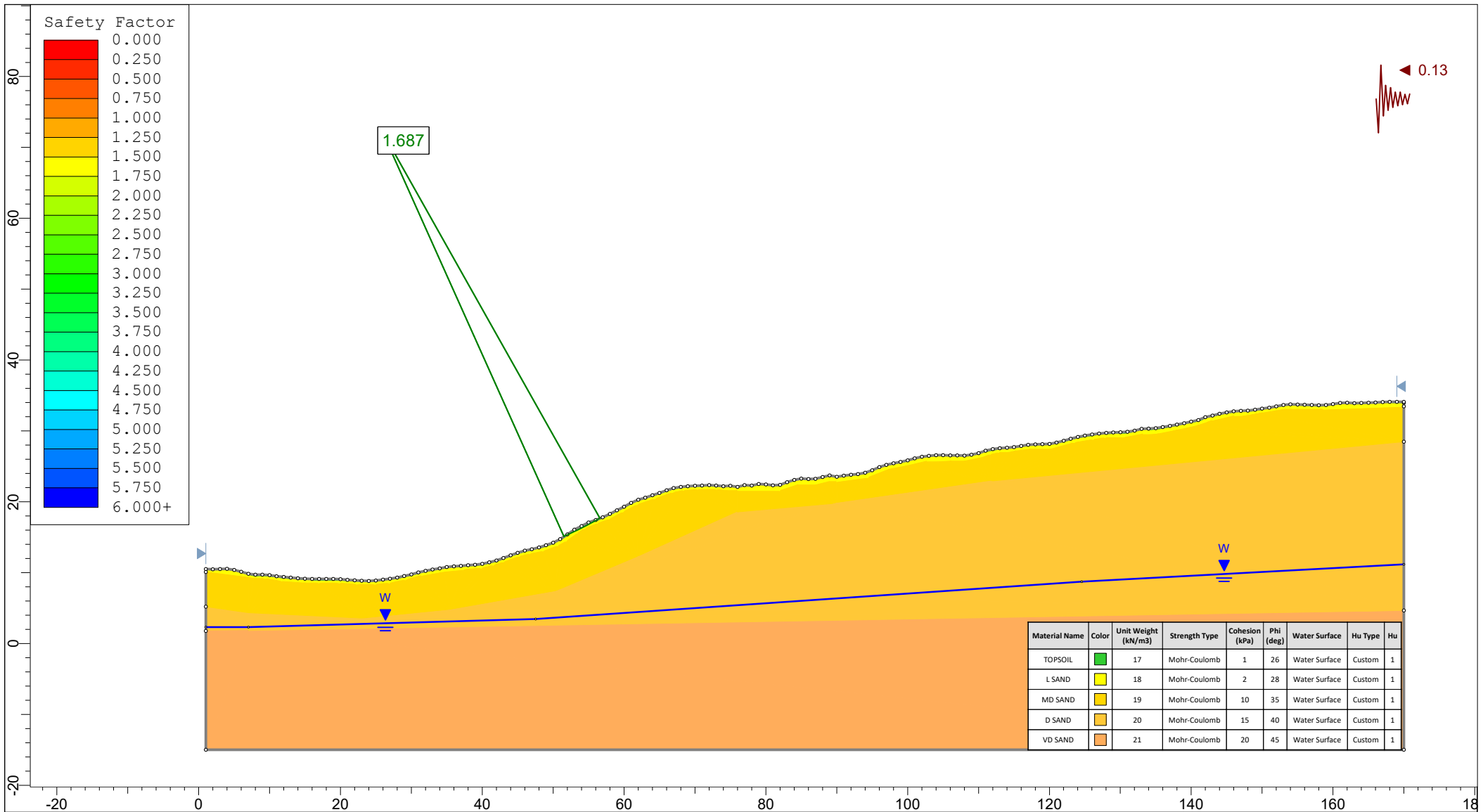
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Analysis Description		C - C' - Static	
Drawn By	CG	Scale	1:750
Date		Company	CGW Consulting Engineers
		File Name	21512_Waikanae North_C-C' - Static.slim




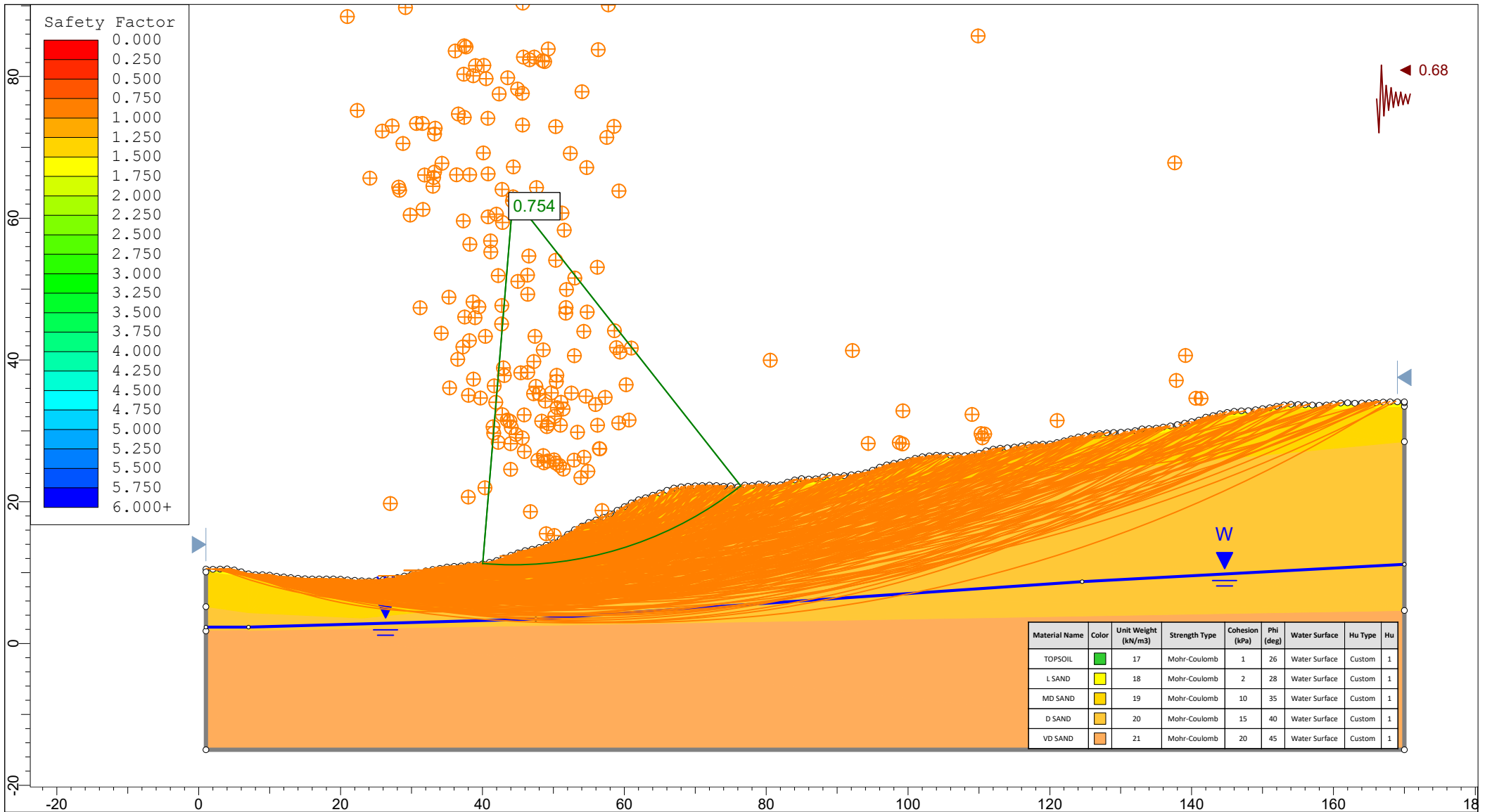
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TOPSOIL	Green	17	Mohr-Coulomb	1	26	Water Surface	Custom	1
L SAND	Yellow	18	Mohr-Coulomb	2	28	Water Surface	Custom	1
MD SAND	Orange	19	Mohr-Coulomb	10	35	Water Surface	Custom	1
D SAND	Light Orange	20	Mohr-Coulomb	15	40	Water Surface	Custom	1
VD SAND	Dark Orange	21	Mohr-Coulomb	20	45	Water Surface	Custom	1



Project		21512 - Waikanae North Development	
Analysis Description		C - C' - Extreme Groundwater	
Drawn By	CG	Scale	1:750
Company		CGW Consulting Engineers	
Date		File Name	21512_Waikanae North_C-C' - EGW.slim



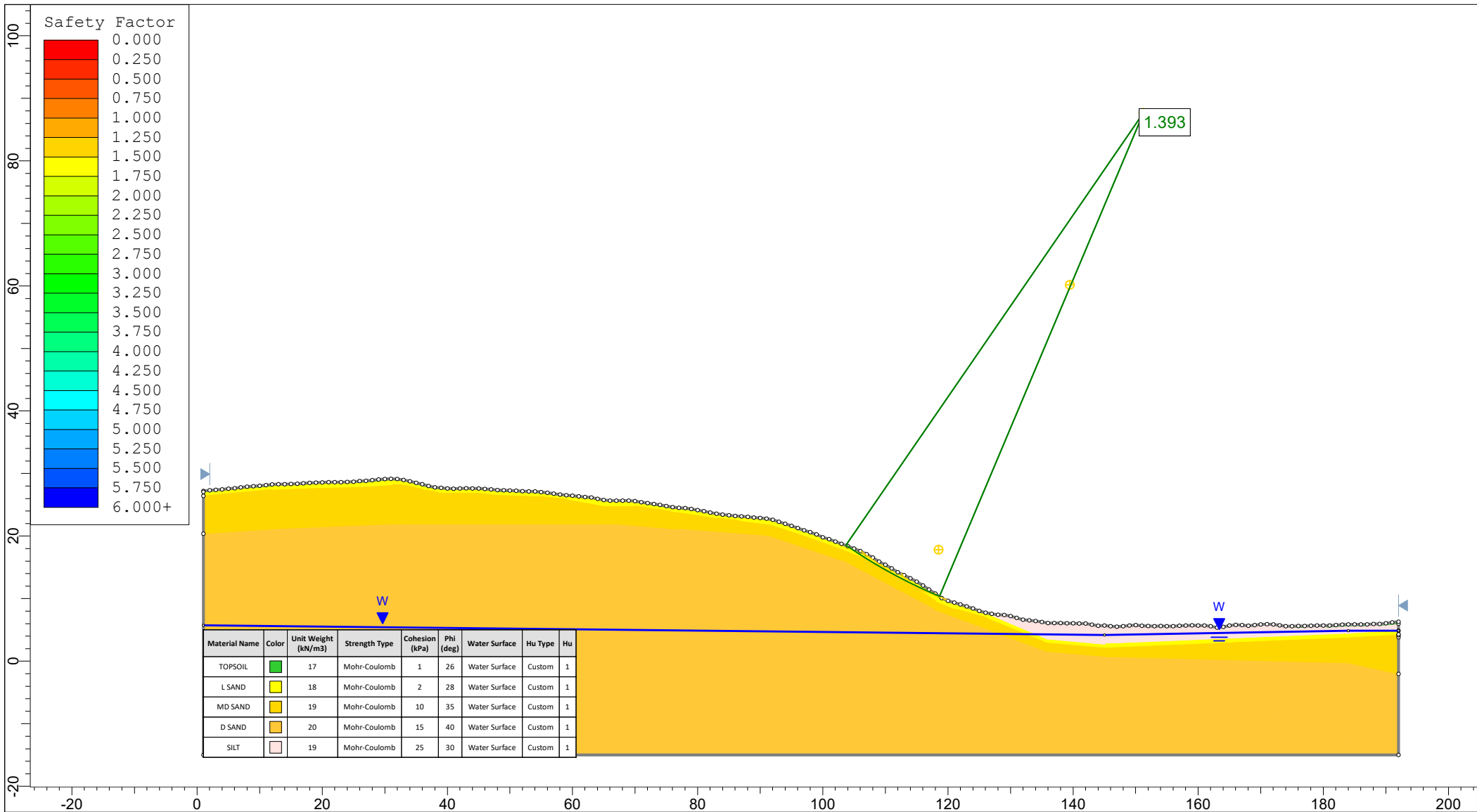
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	Analysis Description			C - C' - Seismic - SLS		
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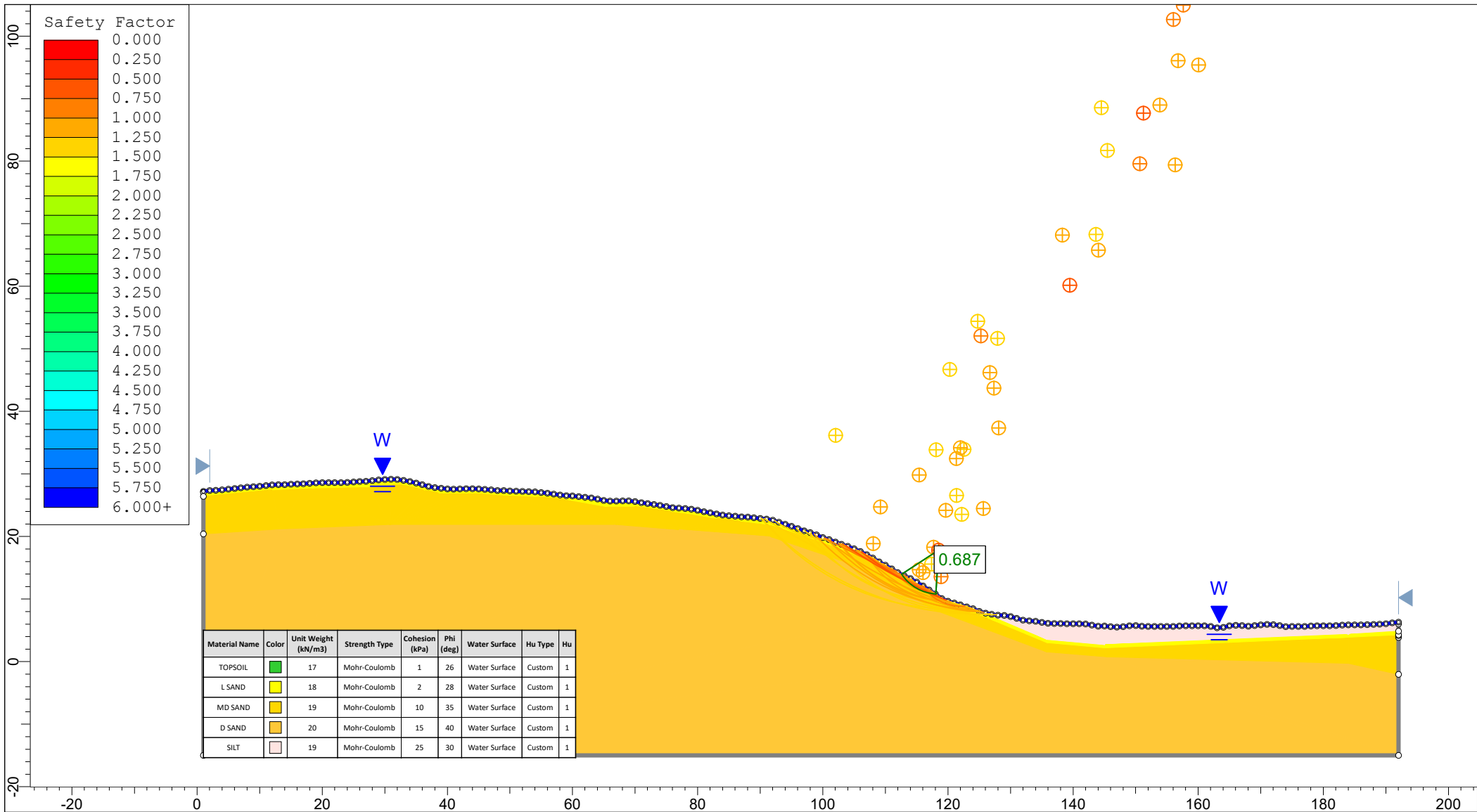
Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Hu Type	Hu
TOPSOIL	Green	17	Mohr-Coulomb	1	26	Water Surface	Custom	1
L SAND	Light Yellow	18	Mohr-Coulomb	2	28	Water Surface	Custom	1
MD SAND	Yellow	19	Mohr-Coulomb	10	35	Water Surface	Custom	1
D SAND	Orange	20	Mohr-Coulomb	15	40	Water Surface	Custom	1
VD SAND	Dark Orange	21	Mohr-Coulomb	20	45	Water Surface	Custom	1




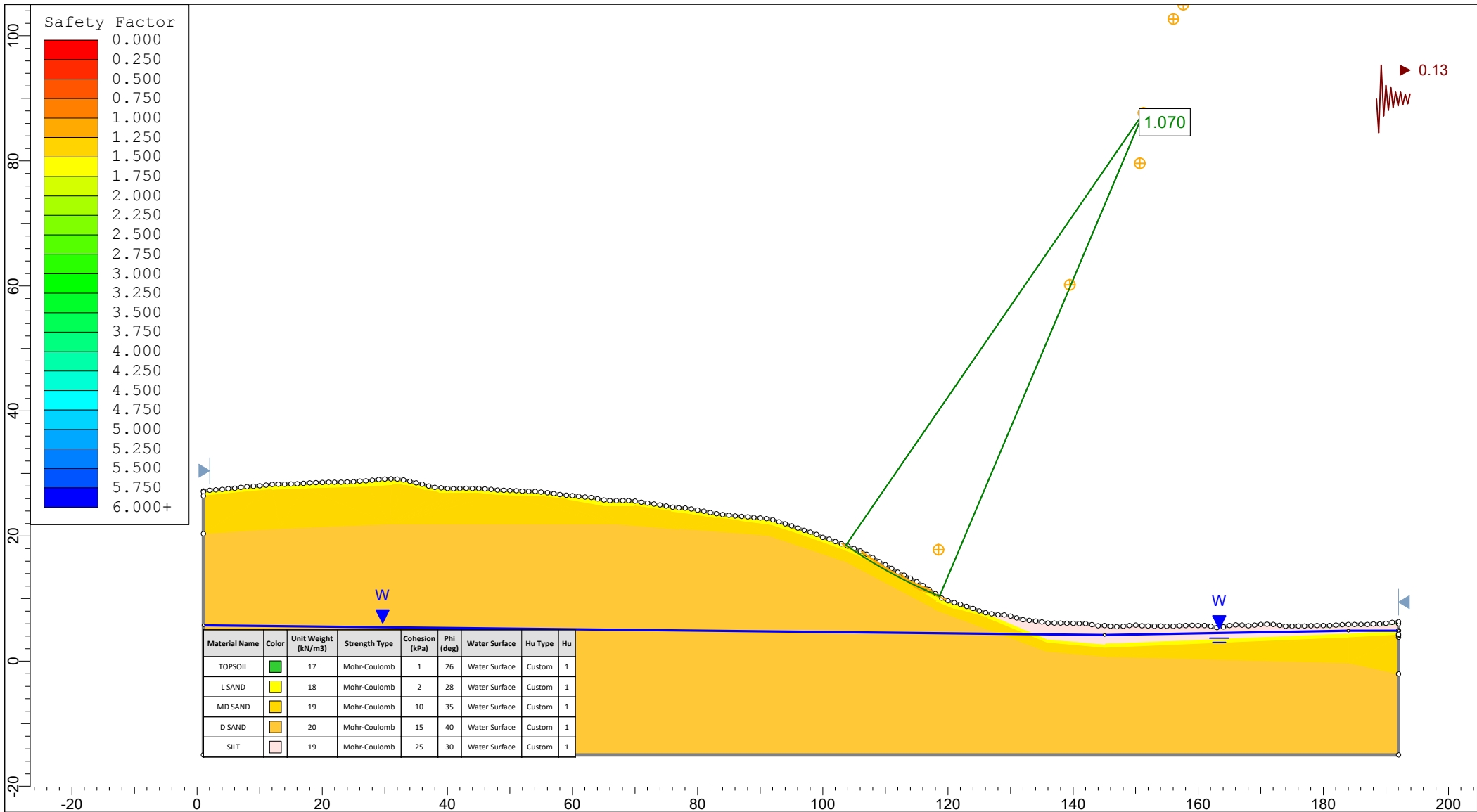
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Analysis Description		C - C' - Seismic - ULS	
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Company		CGW Consulting Engineers	
Date		File Name	
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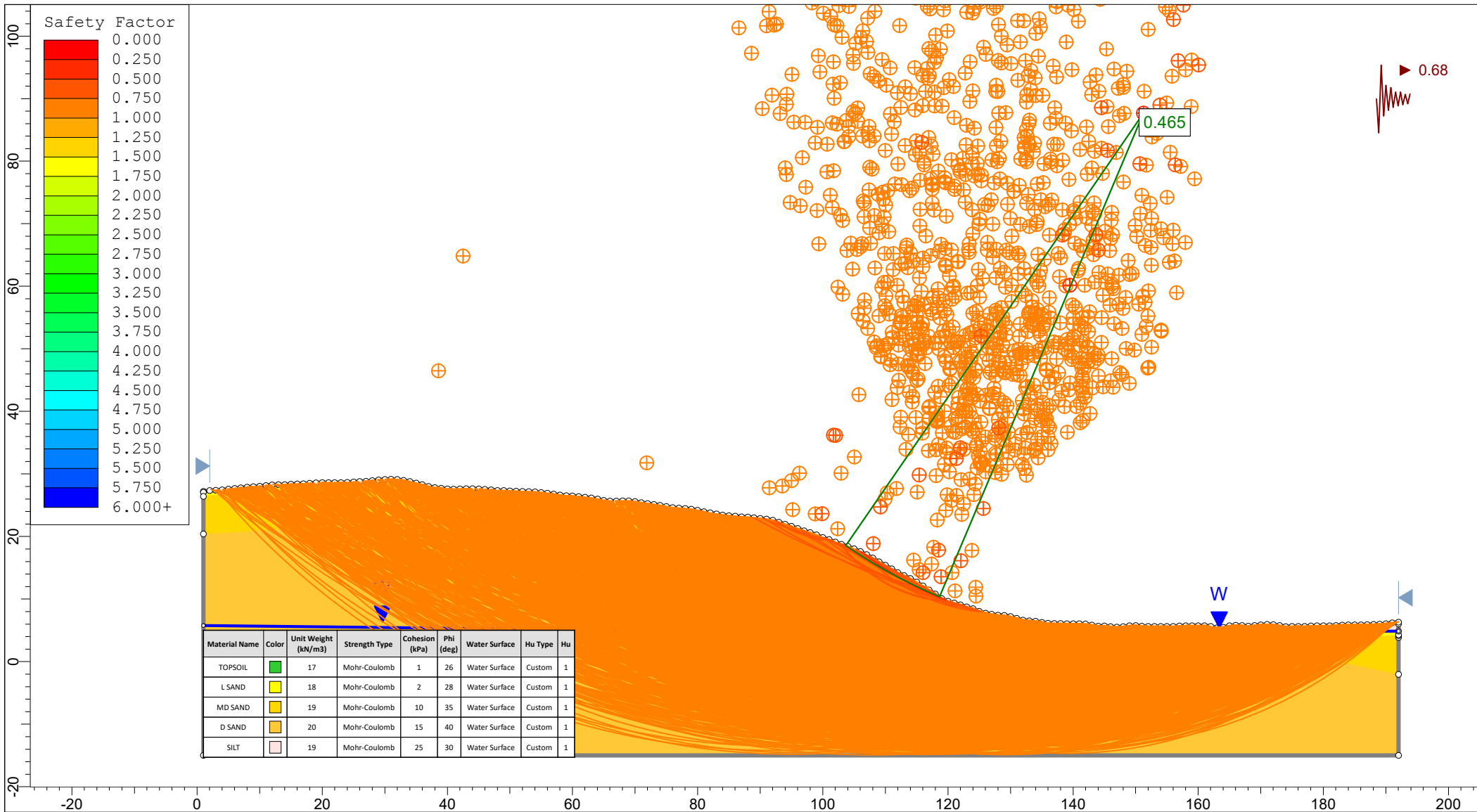
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	Date		File Name	21512_Waikanae North_D-D' - Static.slim		




	Project			21512 - Waikanae North Development		
	Analysis Description			D - D' - Extreme Groundwater		
	Drawn By	CG	Scale	1:850	Company	CGW Consulting Engineers
	Date		File Name	21512_Waikanae North_D-D' - EGW.slim		

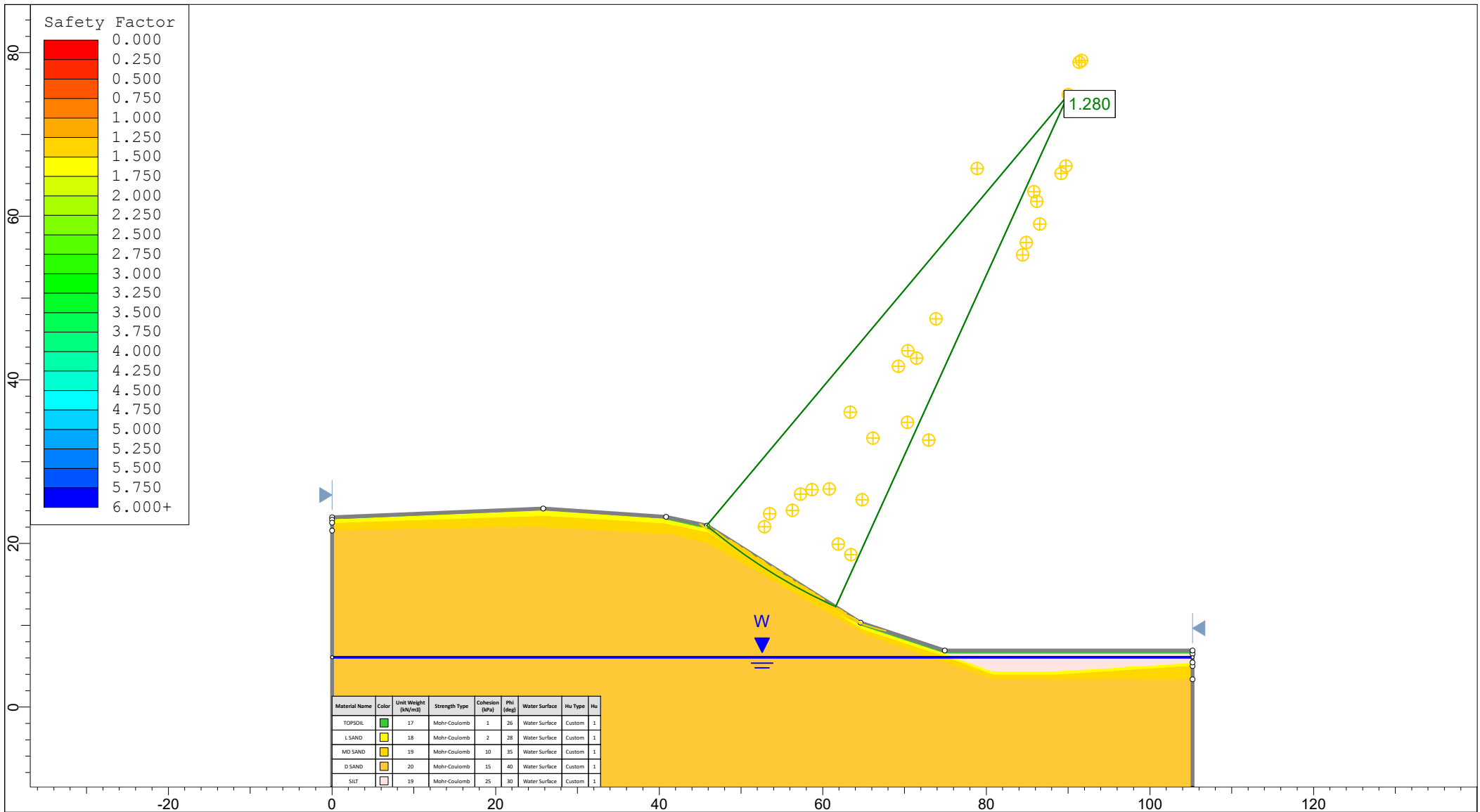


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	Analysis Description			D - D' - Seismic - SLS		
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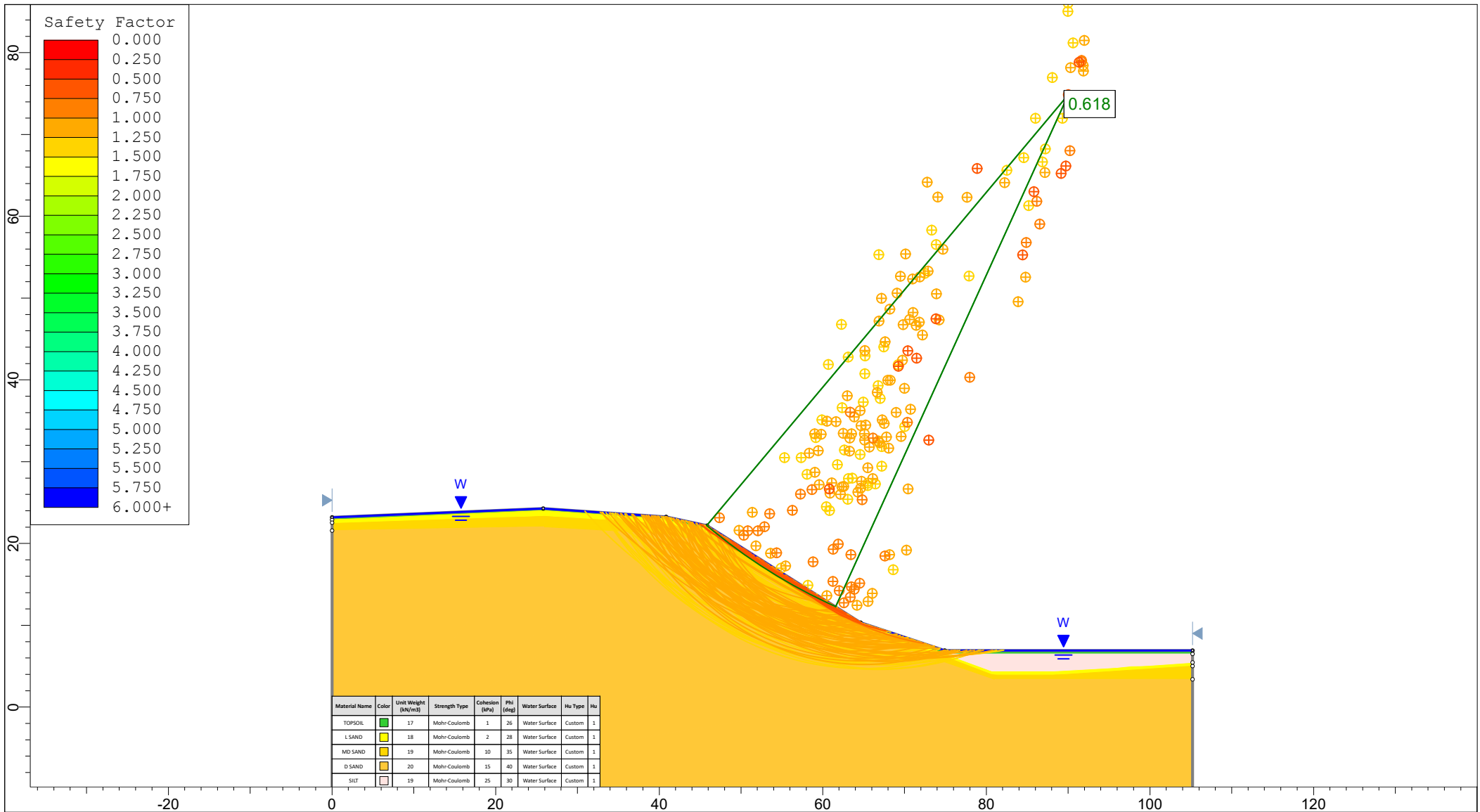


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	Analysis Description			D - D' - Seismic - ULS		
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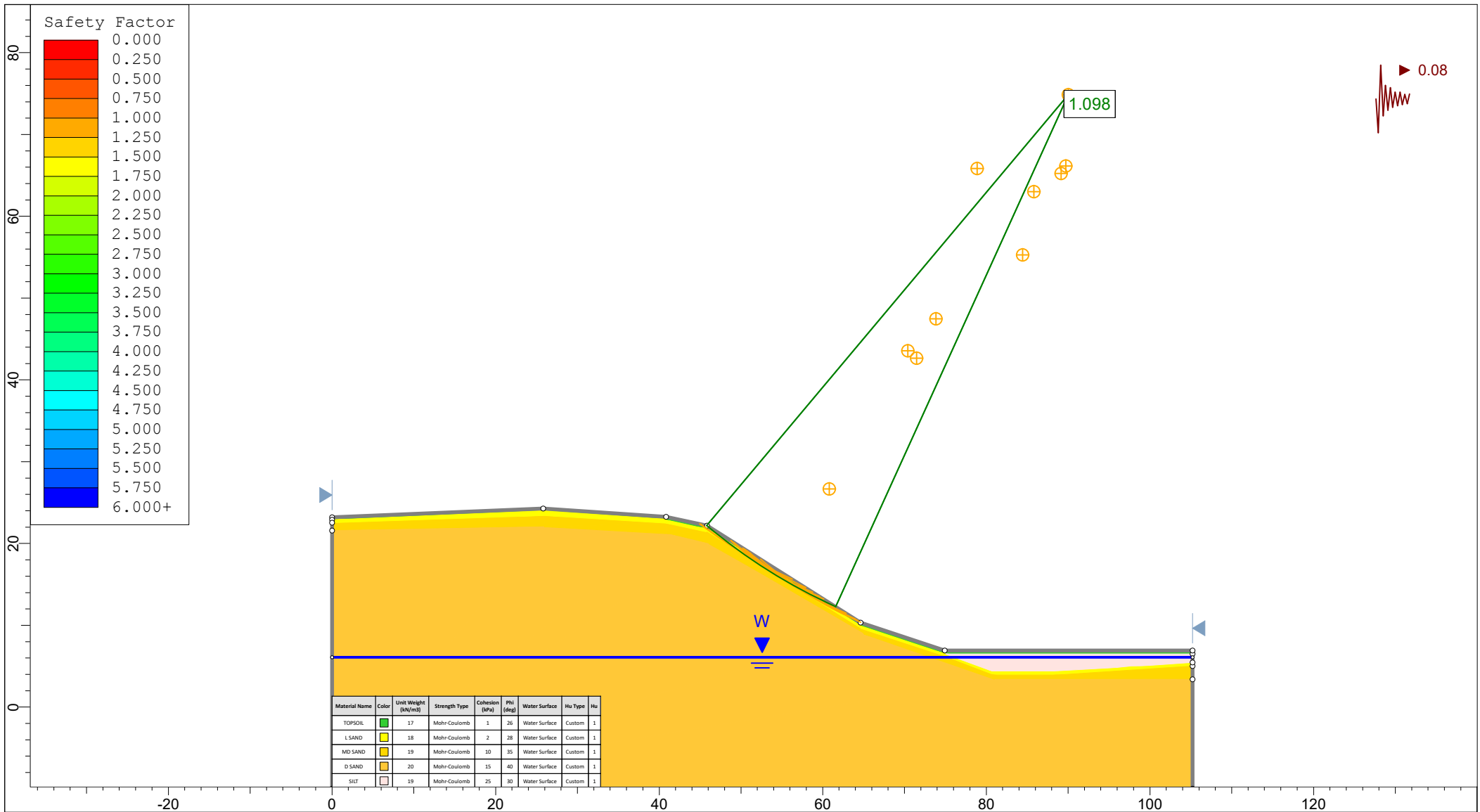
Preliminary Detailed Slope Stability Outputs



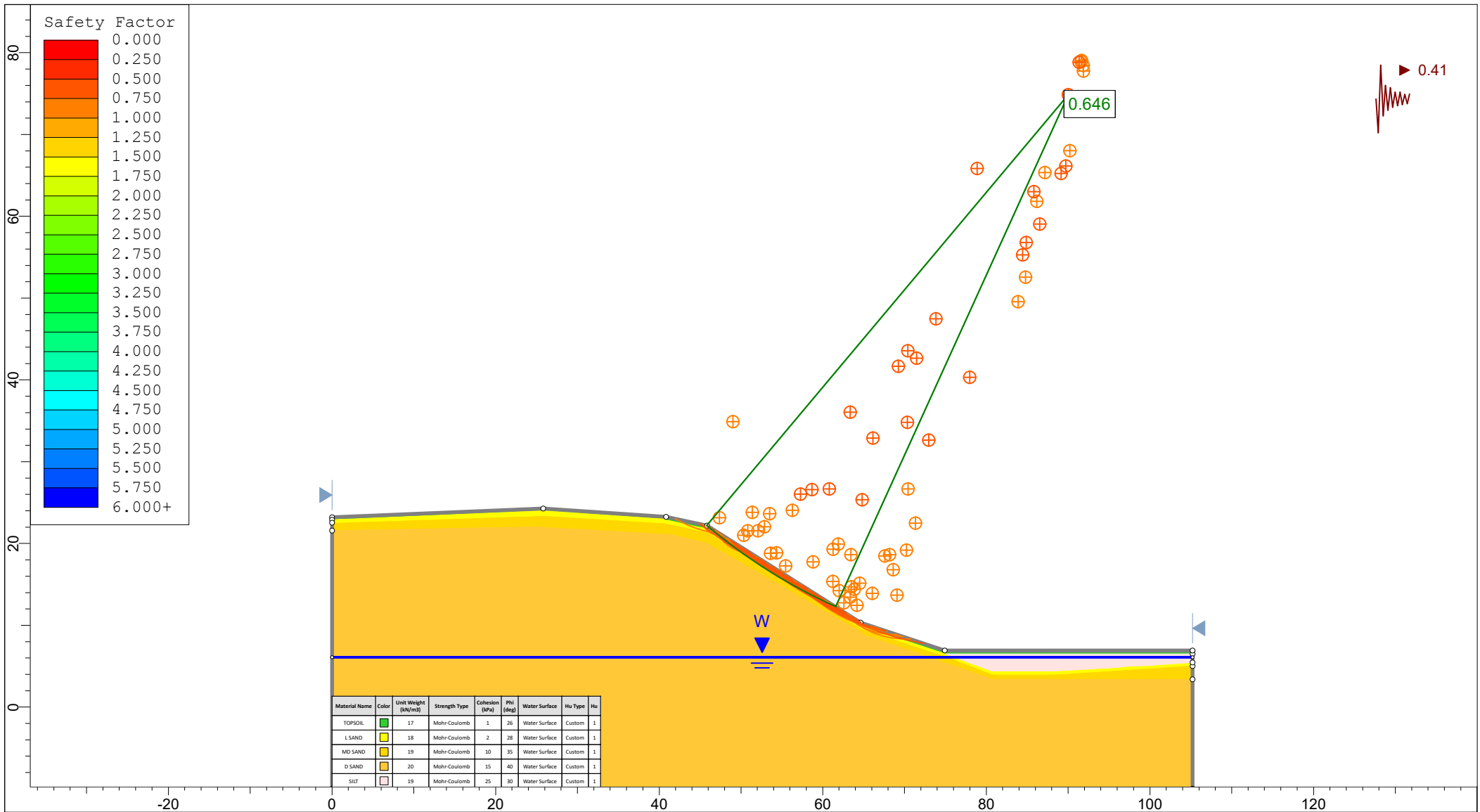
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	Date		File Name	21512_Profile 2_Static.slim		



	Project			21512 - Waikanae North Subdivision		
	Analysis Description			Profile 2 - Extreme Groundwater		
	Drawn By	CG	Scale	1:650	Company	CGW Consulting Engineers
	Date		File Name	21512_Profile 2_EGW.slim		



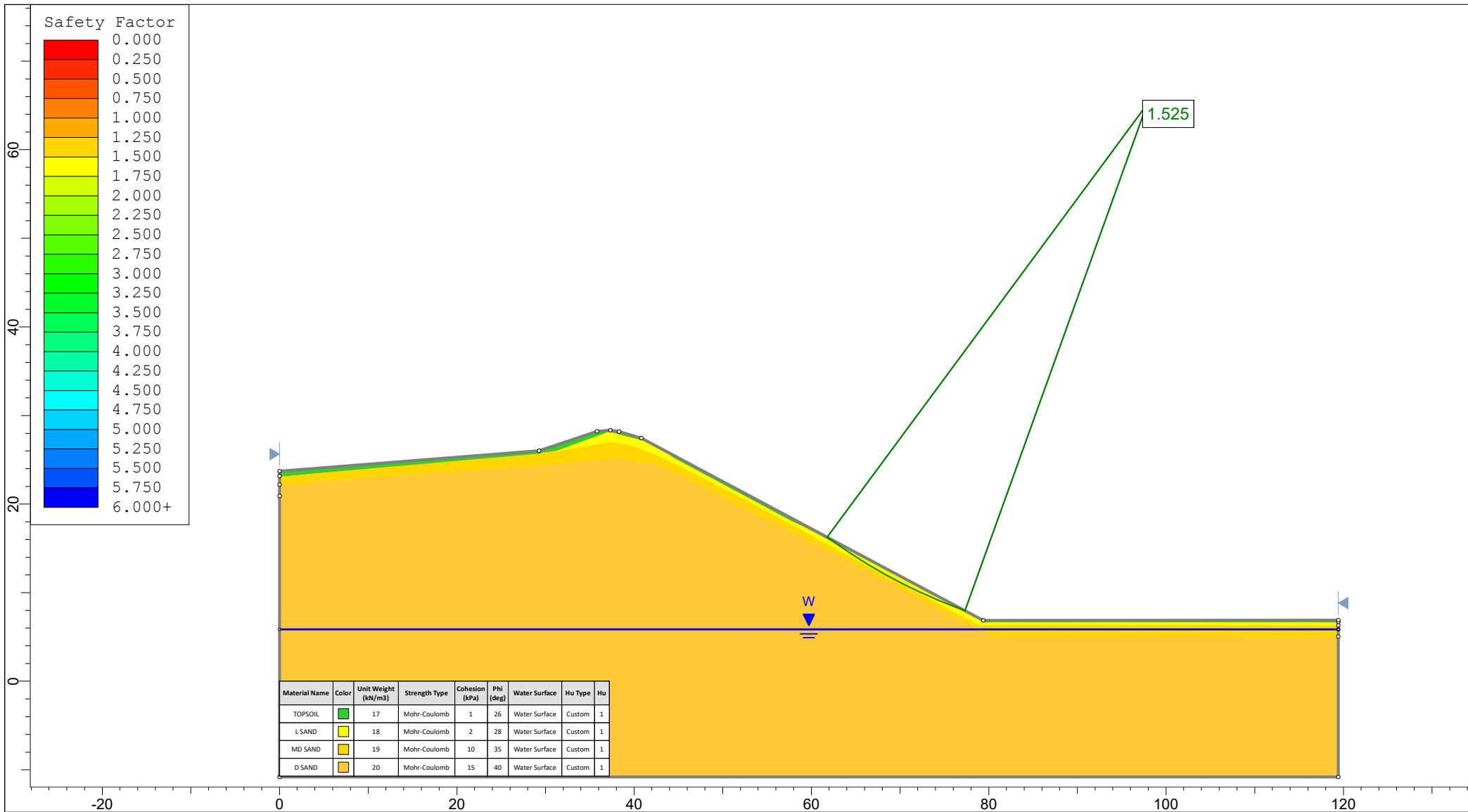
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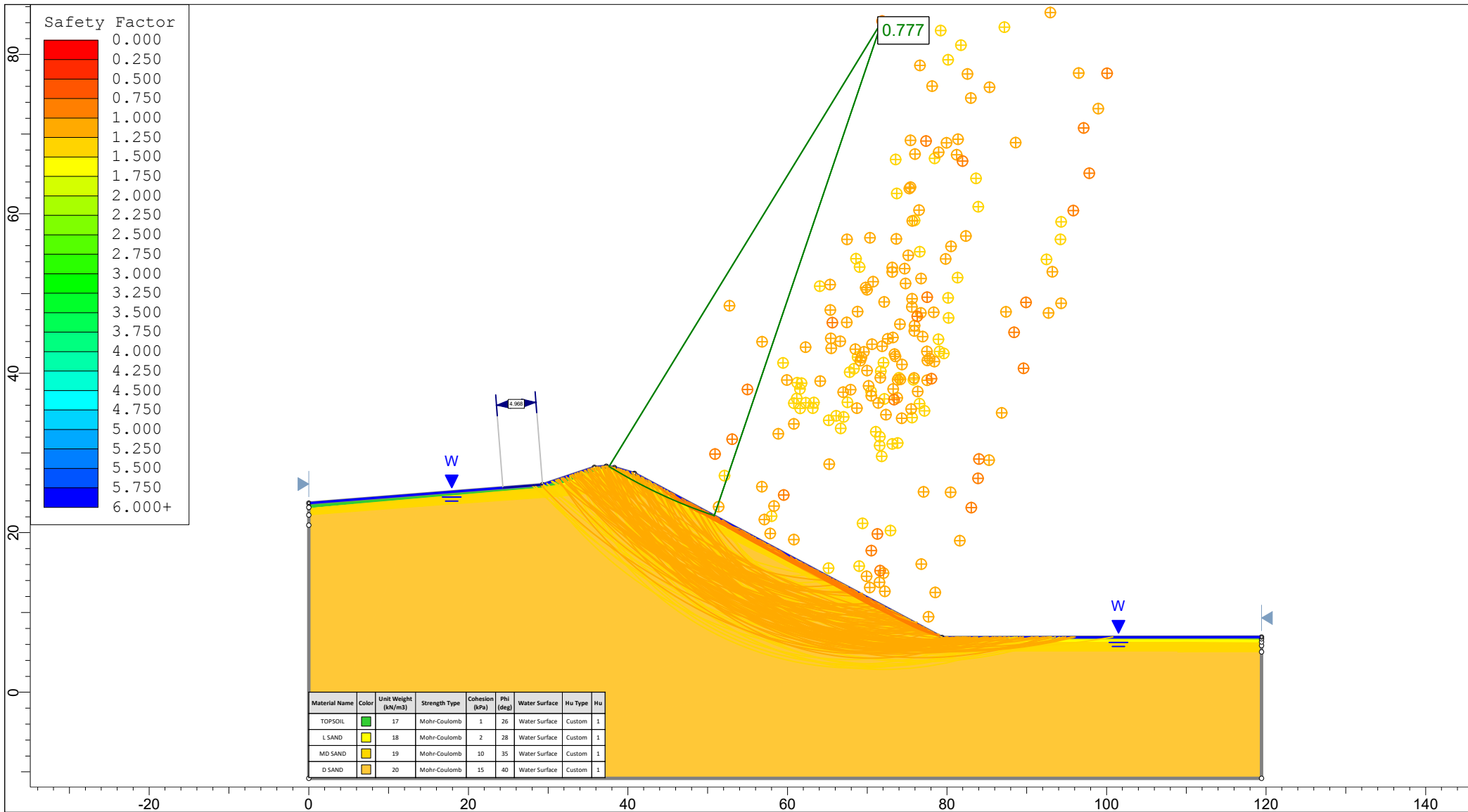
Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Ho Type	Ho
TOPSOIL	Green	17	Mohr-Coulomb	1	26	Water Surface	Custom	1
L SAND	Yellow	18	Mohr-Coulomb	2	28	Water Surface	Custom	1
MD SAND	Orange	19	Mohr-Coulomb	10	35	Water Surface	Custom	1
D SAND	Light Orange	20	Mohr-Coulomb	15	40	Water Surface	Custom	1
SILT	White	19	Mohr-Coulomb	25	30	Water Surface	Custom	1




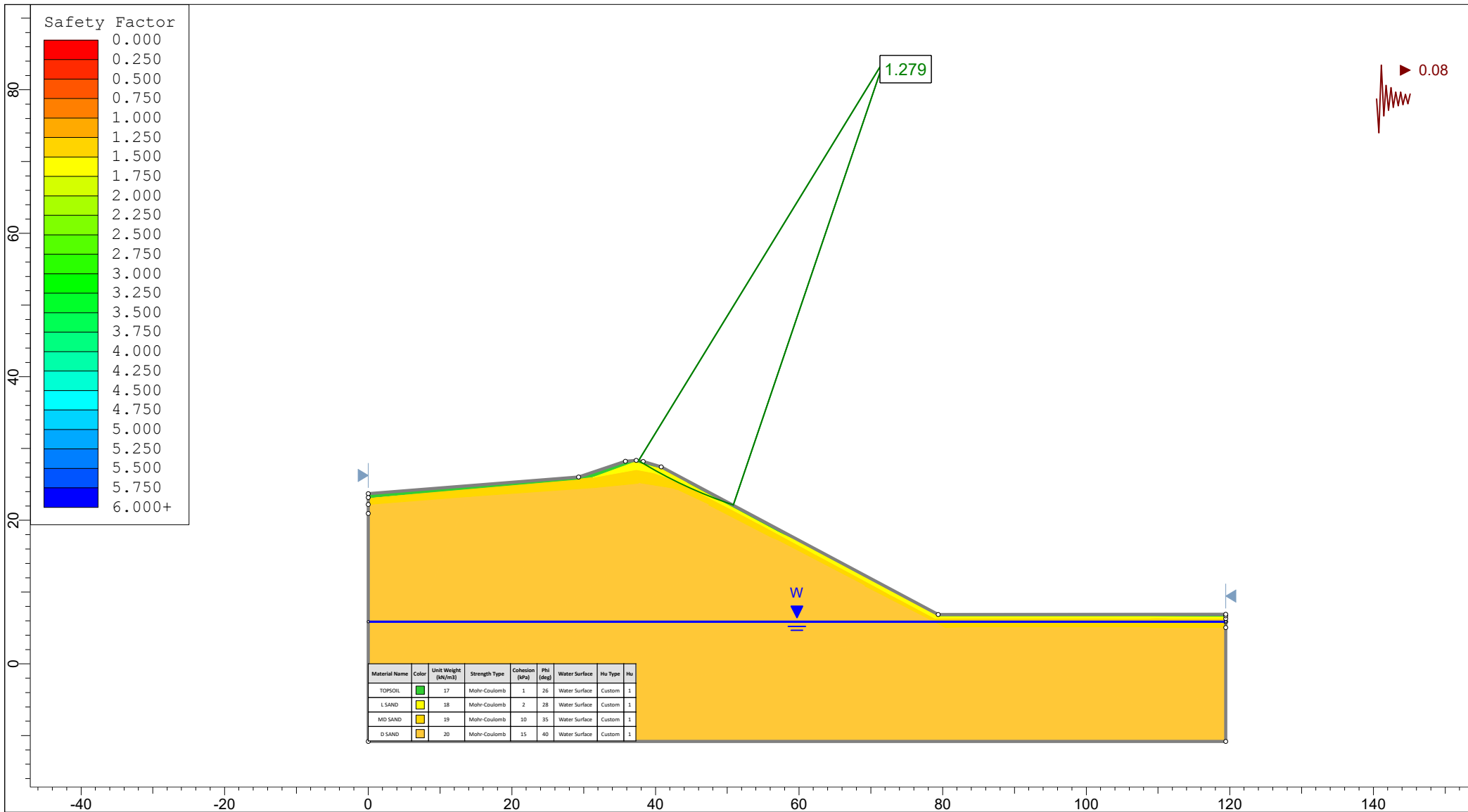
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Analysis Description		Profile 2 - Seismic - ULS	
Drawn By	CG	Scale	1:650
Date		Company	CGW Consulting Engineers
		File Name	21512_Profile 2_ULS.slim



	Project			21512 - Waikanae North Subdivision		
	Analysis Description			Profile 3 - Static		
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	Date		File Name	21512_Profile 3_Static.slim		



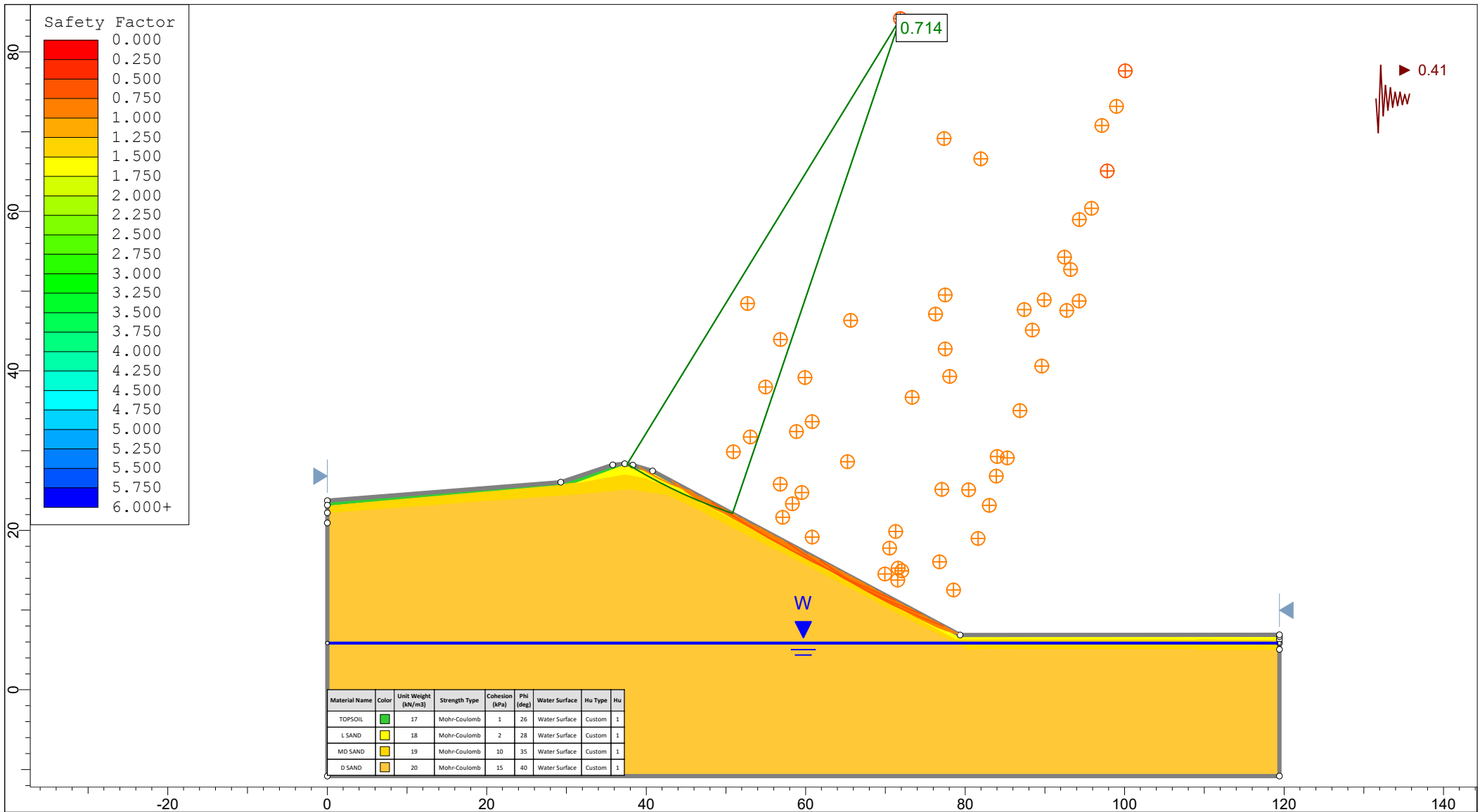
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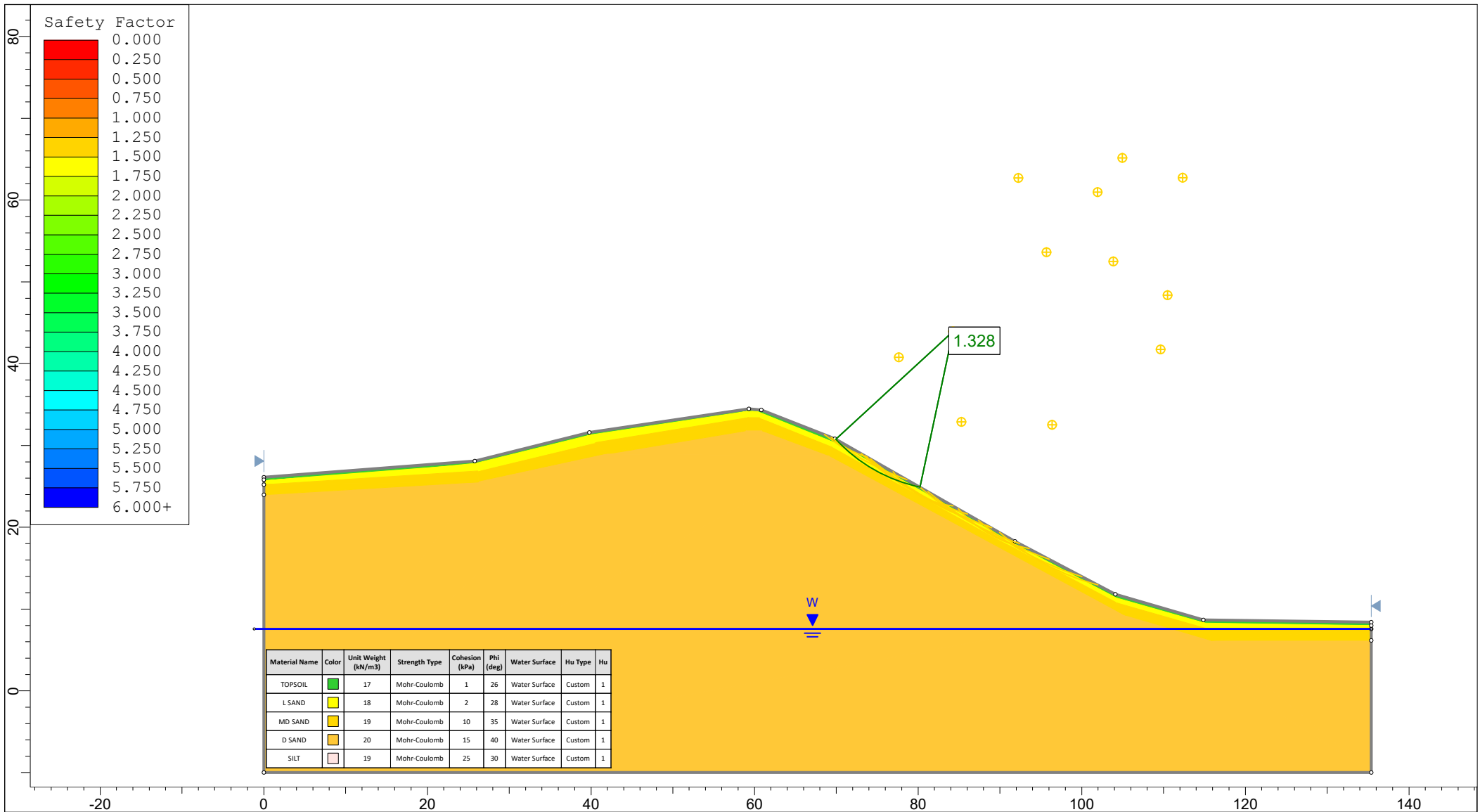
Material Name	Color	Unit Weight [kN/m ³]	Strength Type	Cohesion [kPa]	Phi [deg]	Water Surface	Hu Type	Hu
TOPSOIL	Green	17	Mohr-Coulomb	1	26	Water Surface	Custom	1
L SAND	Yellow	18	Mohr-Coulomb	2	28	Water Surface	Custom	1
MD SAND	Orange	19	Mohr-Coulomb	10	35	Water Surface	Custom	1
D SAND	Dark Orange	20	Mohr-Coulomb	15	40	Water Surface	Custom	1




Project		21512 - Waikanae North Subdivision	
Analysis Description		Profile 3 - Seismic - SLS	
Drawn By	CG	Scale	1:741
Date		Company	CGW Consulting Engineers
		File Name	21512_Profile 3_SLS.slim

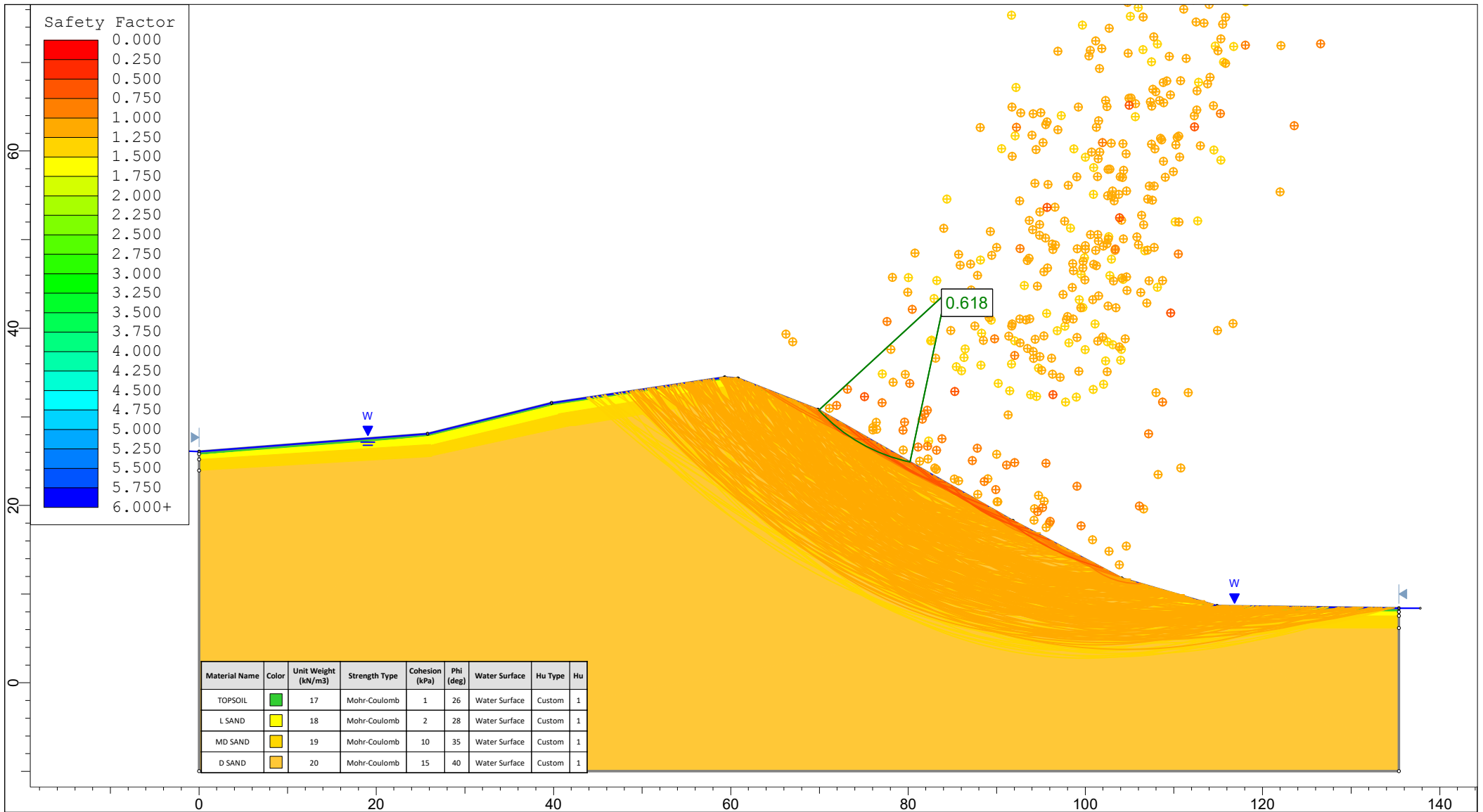


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	Analysis Description			Profile 3 - Seismic - ULS		
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	Date		File Name	21512_Profile 3_ULS.slim		

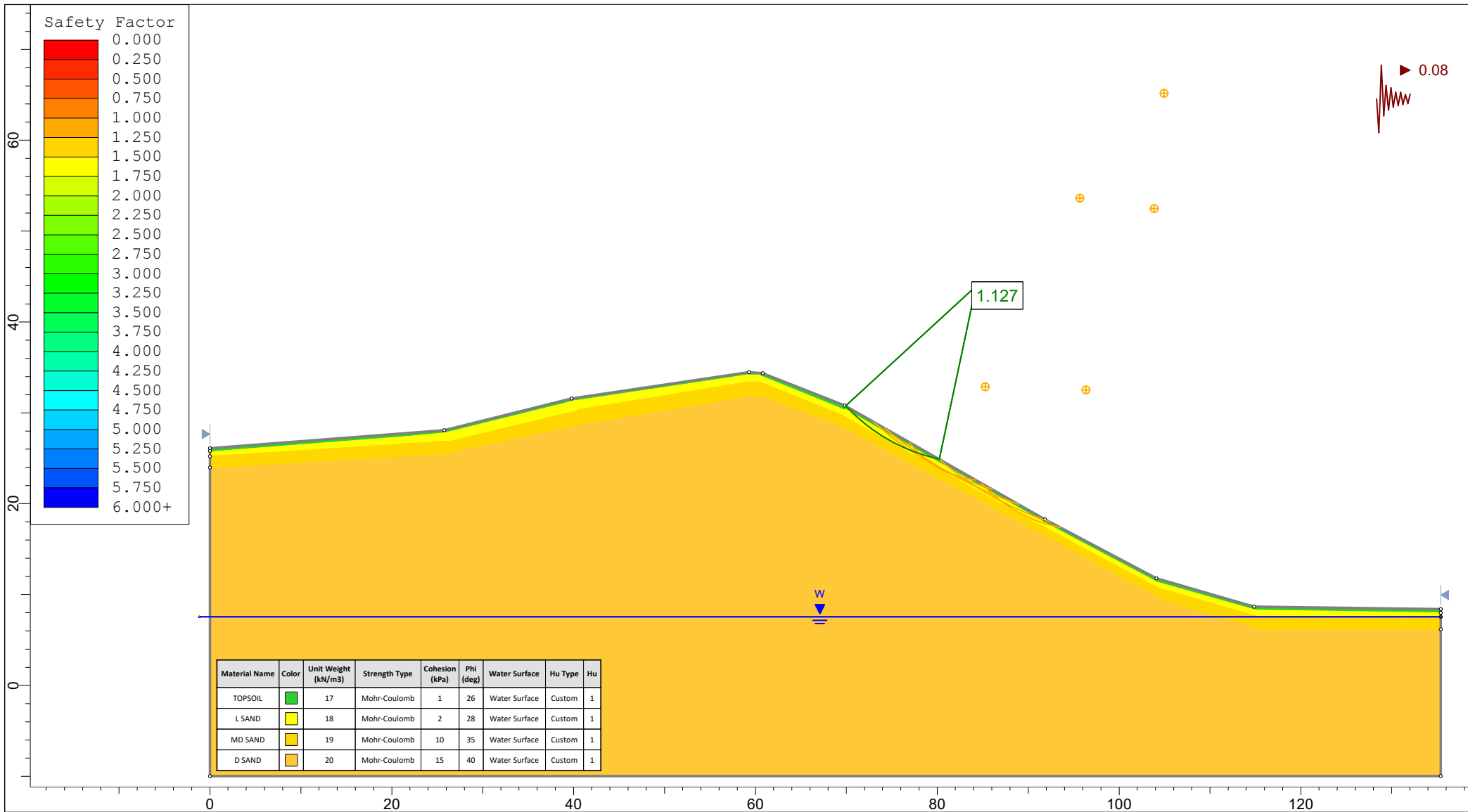



Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Hu Type	Hu
TOPSOIL	Green	17	Mohr-Coulomb	1	26	Water Surface	Custom	1
LSAND	Yellow	18	Mohr-Coulomb	2	28	Water Surface	Custom	1
MD SAND	Orange	19	Mohr-Coulomb	10	35	Water Surface	Custom	1
D SAND	Light Orange	20	Mohr-Coulomb	15	40	Water Surface	Custom	1
SILT	Light Grey	19	Mohr-Coulomb	25	30	Water Surface	Custom	1

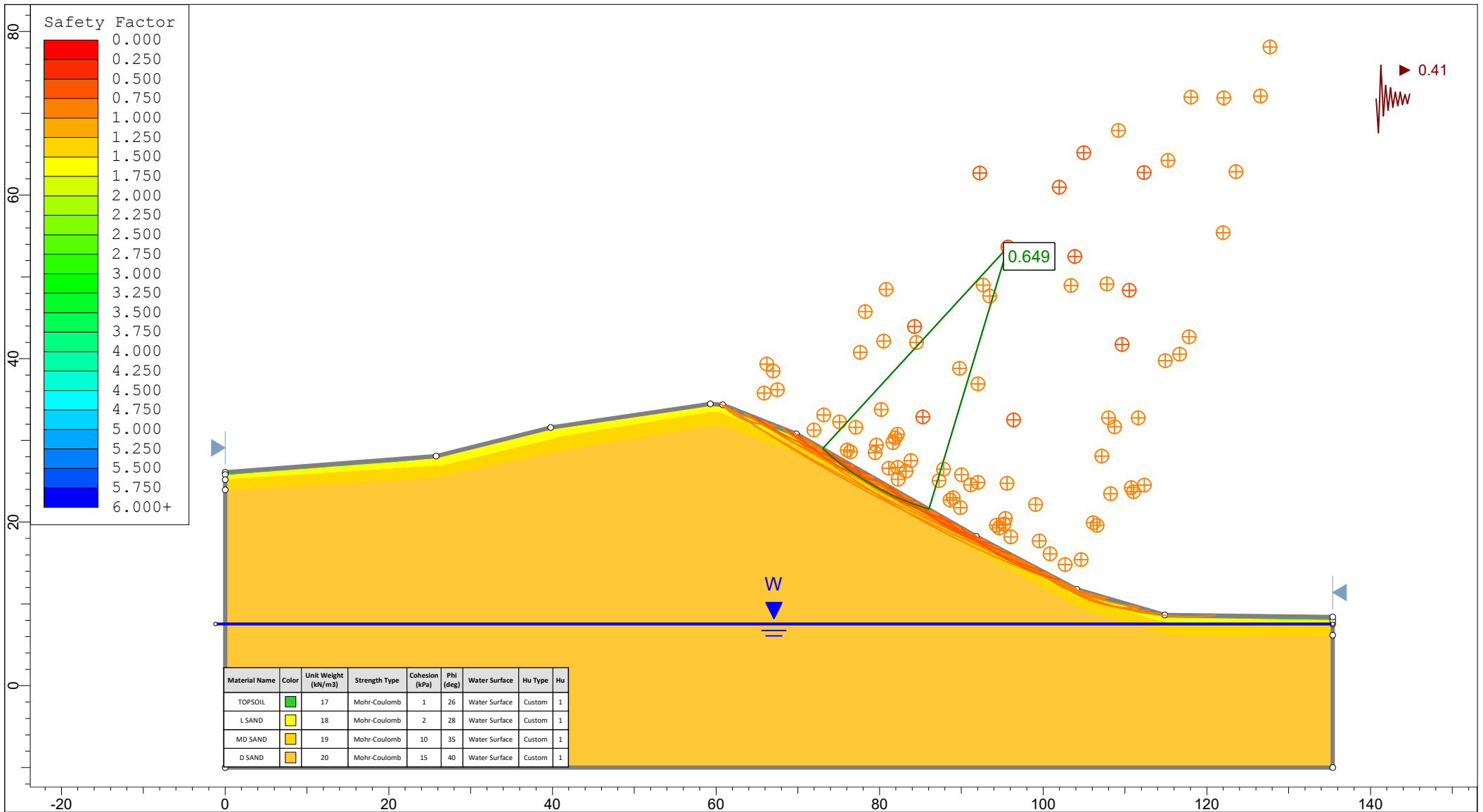
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	Analysis Description			Profile 6 - Static		
	Drawn By	CG	Scale	1:650	Company	CGW Consulting Engineers
	Date		File Name	21512_Profile 6_Static.slim		



	Project										
	21512 - Waikanae North Subdivision										
	Analysis Description										
	Profile 6 - Extreme Groundwater										
Drawn By		CG		Scale		1:600		Company		CGW Consulting Engineers	
Date								File Name		21512_Profile 6_EGW.slim	



	Project			21512 - Waikanae North Subdivision		
	Analysis Description			Profile 6 - Seismic - SLS		
	Drawn By	CG	Scale	1:585	Company	CGW Consulting Engineers
	Date		File Name	21512_Profile 6_SLS.slim		



	Project				
	21512 - Waikanae North Subdivision				
	Analysis Description				
	Profile 6 - Seismic - ULS				
Drawn By	CG	Scale	1:650	Company	CGW Consulting Engineers
Date				File Name	21512_Profile 6_ULS.slim

Appendix K: Soakage Testing Results

Job Number 21512
Job Name Waikanae North Subdivision
Calc Purpose Subdivision

Prepared SC
Reviewed CG
Date 14/05/2025

Falling Head (Variable Head) Percolation Test - ST01

This calculator is based on NZBC E/1 VM1. Note that sizing a soakage device using this percolation rate should be use base soakage only per NZBC E1/VM1 (i.e. no side soakage).

Result

Based on the testing carried out the percolation rate is assessed as 3000mm/hr

Testing Data

Test hole diameter	0.10m	Test hole depth (D)	1.00m
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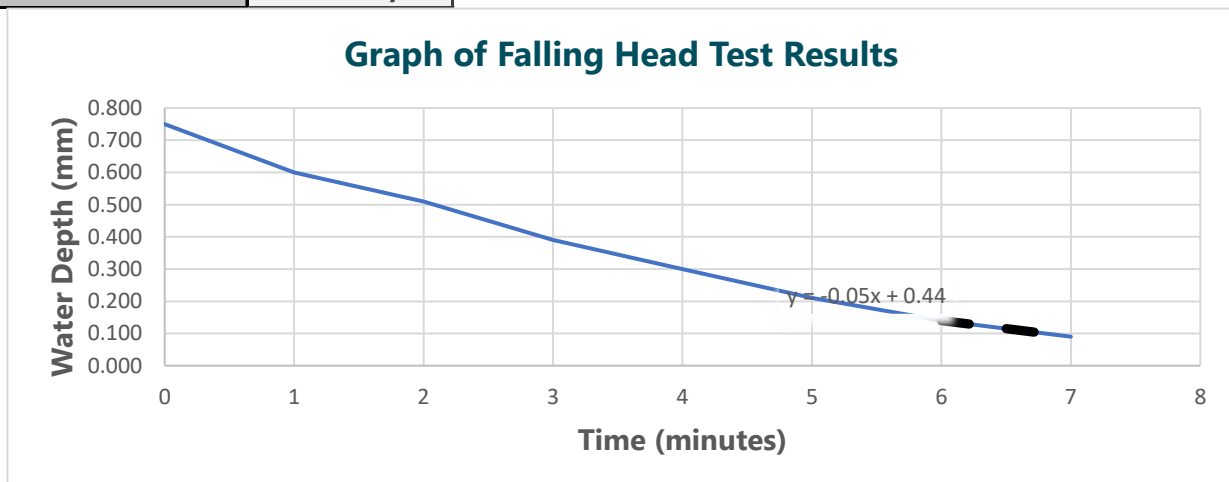
Table 1 - Test Log											
Time	Water Level	Water depth	Time steps		Interval	Depth steps		Water Drop Over interval	Interval Gradient		%age Empty
T	d	D-d	t0	t1	x = t1-t0	h0	h1	y = h1 - h0	y/x		
min	mBGL	m	min	min	min	m	m	m - m	m/min	mm/hr	
0	0.250	0.750	-	-		-	-	- - -			25%
1	0.400	0.600	0	1	1	0.750	0.600	0.150	0.150	9000	40%
2	0.490	0.510	1	2	1	0.600	0.510	0.090	0.090	5400	49%
3	0.610	0.390	2	3	1	0.510	0.390	0.120	0.120	7200	61%
4	0.700	0.300	3	4	1	0.390	0.300	0.090	0.090	5400	70%
5	0.790	0.210	4	5	1	0.300	0.210	0.090	0.090	5400	79%
6	0.860	0.140	5	6	1	0.210	0.140	0.070	0.070	4200	86%
7	0.910	0.090	6	7	1	0.140	0.090	0.050	0.050	3000	91%
				0							
6		0.140	Selected points for minimum gradient								
7		0.090									

Minimum Gradient - assessed from graph below

y	0.050m	x	1min	Gradient	y/x	0.050
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Percolation Rate

Percolation Rate =	3000mm/hr
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Job Number 21512
Job Name Waikanae North Subdivision
Calc Purpose Subdivision

Prepared SC
Reviewed CG
Date 14/05/2025

Falling Head (Variable Head) Percolation Test - ST02

This calculator is based on NZBC E/1 VM1. Note that sizing a soakage device using this percolation rate should be use base soakage only per NZBC E1/VM1 (i.e. no side soakage).

Result

Based on the testing carried out the percolation rate is assessed as 1800mm/hr

Testing Data

Test hole diameter	0.10m	Test hole depth (D)	0.60m
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Table 1 - Test Log

Time	Water Level	Water depth	Time steps		Interval	Depth steps		Water Drop Over interval	Interval Gradient		%age Empty
			t0	t1		h0	h1		y/x		
T	d	D-d	t0	t1	x = t1-t0	h0	h1	y = h1 - h0	y/x		
min	mBGL	m	min	min	min	m	m	m - m	m/min	mm/hr	
0	0.000	0.600	-	-		-	-	- - -			0%
1	0.200	0.400	0	1	1	0.600	0.400	0.200	0.200	12000	33%
2	0.310	0.290	1	2	1	0.400	0.290	0.110	0.110	6600	52%
3	0.380	0.220	2	3	1	0.290	0.220	0.070	0.070	4200	63%
4	0.450	0.150	3	4	1	0.220	0.150	0.070	0.070	4200	75%
5	0.480	0.120	4	5	1	0.150	0.120	0.030	0.030	1800	80%
6	0.530	0.070	5	6	1	0.120	0.070	0.050	0.050	3000	88%

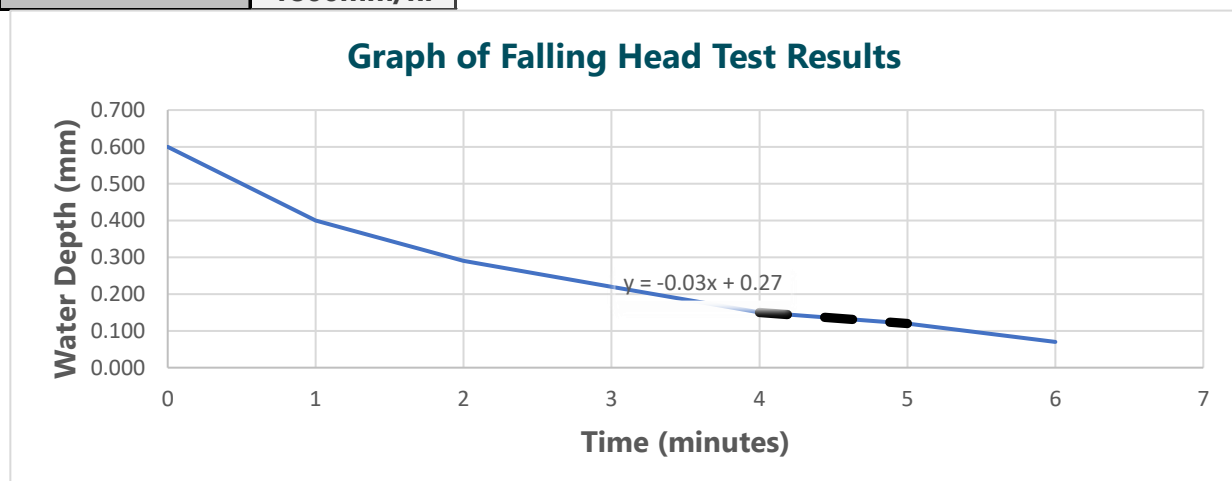
4	0.150	Selected points for minimum gradient
5	0.120	

Minimum Gradient - assessed from graph below

y	0.030m	x	1min	Gradient	y/x	0.030
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Percolation Rate

Percolation Rate =	1800mm/hr
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Job Number 21512
Job Name Waikanae North Subdivision
Calc Purpose Subdivision

Prepared SC
Reviewed CG
Date 14/05/2025

Falling Head (Variable Head) Percolation Test - ST03

This calculator is based on NZBC E/1 VM1. Note that sizing a soakage device using this percolation rate should be use base soakage only per NZBC E1/VM1 (i.e. no side soakage).

Result

Based on the testing carried out the percolation rate is assessed as 2700mm/hr

Testing Data

Test hole diameter	0.10m	Test hole depth (D)	1.00m
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Table 1 - Test Log

Time	Water Level	Water depth	Time steps		Interval	Depth steps		Water Drop Over interval	Interval Gradient		%age Empty
T	d	D-d	t0	t1	x = t1-t0	h0	h1	y = h1 - h0	y/x		
min	mBGL	m	min	min	min	m	m	m - m	m/min	mm/hr	
0	0.150	0.850	-	-		-	-	- - -			15%
1	0.380	0.620	0	1	1	0.850	0.620	0.230	0.230	13800	38%
2	0.490	0.510	1	2	1	0.620	0.510	0.110	0.110	6600	49%
3	0.560	0.440	2	3	1	0.510	0.440	0.070	0.070	4200	56%
4	0.640	0.360	3	4	1	0.440	0.360	0.080	0.080	4800	64%
5	0.700	0.300	4	5	1	0.360	0.300	0.060	0.060	3600	70%
6	0.750	0.250	5	6	1	0.300	0.250	0.050	0.050	3000	75%
7	0.800	0.200	6	7	1	0.250	0.200	0.050	0.050	3000	80%
8	0.840	0.160	7	8	1	0.200	0.160	0.040	0.040	2400	84%
9	0.890	0.110	8	9	1	0.160	0.110	0.050	0.050	3000	89%
10	0.930	0.070	9	10	1	0.110	0.070	0.040	0.040	2400	93%

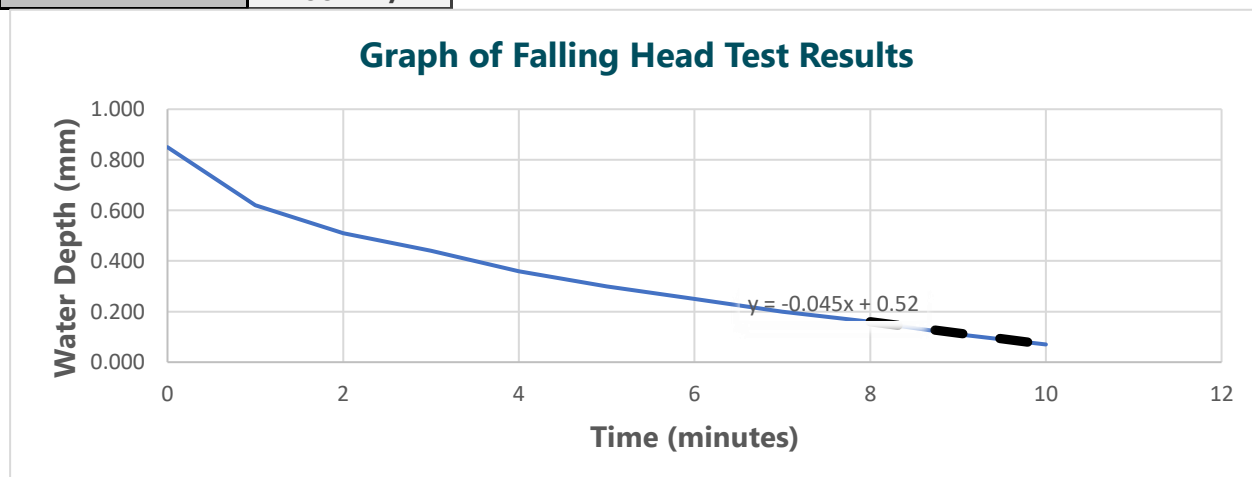
8	0.160	Selected points for minimum gradient
10	0.070	

Minimum Gradient - assessed from graph below

y	0.090m	x	2min	Gradient	y/x	0.045
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Percolation Rate

Percolation Rate =	2700mm/hr
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Job Number 21512
Job Name Waikanae North Subdivision
Calc Purpose Subdivision

Prepared SC
Reviewed CG
Date 14/05/2025

Falling Head (Variable Head) Percolation Test - ST04

This calculator is based on NZBC E/1 VM1. Note that sizing a soakage device using this percolation rate should be use base soakage only per NZBC E1/VM1 (i.e. no side soakage).

Result

Based on the testing carried out the percolation rate is assessed as 1200mm/hr

Testing Data

Test hole diameter	0.10m	Test hole depth (D)	1.00m
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Table 1 - Test Log

Time	Water Level	Water depth	Time steps		Interval	Depth steps		Water Drop Over interval	Interval Gradient		%age Empty
T	d	D-d	t0	t1	x = t1-t0	h0	h1	y = h1 - h0	y/x		
min	mBGL	m	mi n	mi n	min	m	m	m - m	m/mi n	mm/hr	
0	0.100	0.900	-	-		-	-	- - -			10%
1	0.420	0.580	0	1	1	0.900	0.580	0.320	0.320	19200	42%
2	0.540	0.460	1	2	1	0.580	0.460	0.120	0.120	7200	54%
3	0.640	0.360	2	3	1	0.460	0.360	0.100	0.100	6000	64%
4	0.700	0.300	3	4	1	0.360	0.300	0.060	0.060	3600	70%
5	0.730	0.270	4	5	1	0.300	0.270	0.030	0.030	1800	73%
6	0.850	0.150	5	6	1	0.270	0.150	0.120	0.120	7200	85%
7	0.890	0.110	6	7	1	0.150	0.110	0.040	0.040	2400	89%
8	0.910	0.090	7	8	1	0.110	0.090	0.020	0.020	1200	91%
9	0.930	0.070	8	9	1	0.090	0.070	0.020	0.020	1200	93%

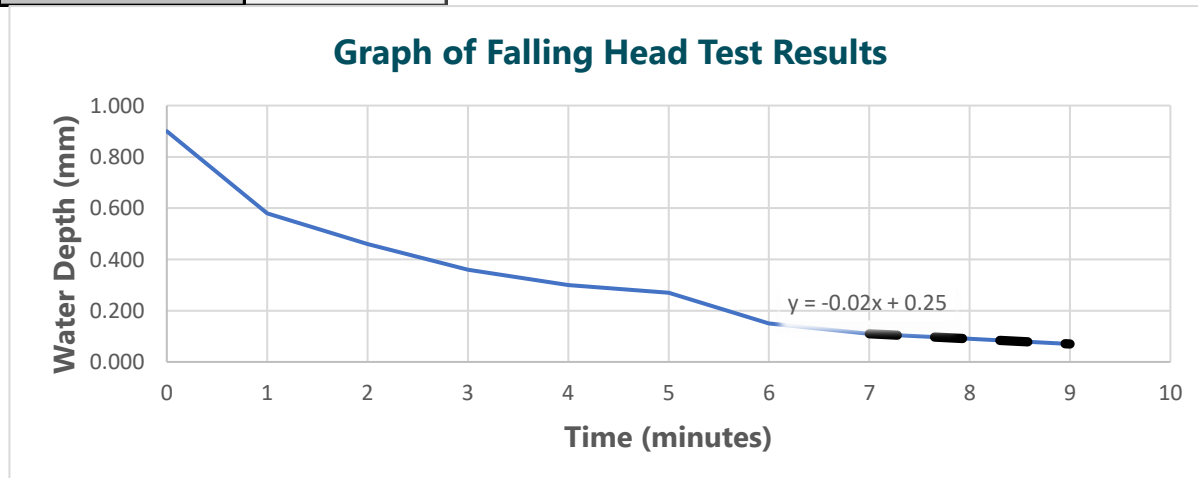
7	0.110	Selected points for minimum gradient
9	0.070	

Minimum Gradient - assessed from graph below

y	0.040m	x	2min	Gradient	y/x	0.020
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Percolation Rate

Percolation Rate =	1200mm/hr
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Job Number 21512
Job Name Waikanae North Subdivision
Calc Purpose Subdivision

Prepared SC
Reviewed CG
Date 21/05/2025

Falling Head (Variable Head) Percolation Test - ST04

This calculator is based on NZBC E/1 VM1. Note that sizing a soakage device using this percolation rate should be use base soakage only per NZBC E1/VM1 (i.e. no side soakage).

Result

Based on the testing carried out the percolation rate is assessed as 1500mm/hr

Testing Data

Test hole diameter	0.10m	Test hole depth (D)	1.20m
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Table 1 - Test Log

Time	Water Level	Water depth	Time steps		Interval	Depth steps		Water Drop Over interval	Interval Gradient		%age Empty
			t0	t1		x = t1-t0	h0		h1	y = h1 - h0	
min	mBGL	m	min	min	min	m	m	m - m	m/min	mm/hr	
0	0.000	1.200	-	-	-	-	-	- - -			0%
1	0.180	1.020	0	1	1	1.200	1.020	0.180	0.180	10800	15%
2	0.230	0.970	1	2	1	1.020	0.970	0.050	0.050	3000	19%
3	0.300	0.900	2	3	1	0.970	0.900	0.070	0.070	4200	25%
4	0.370	0.830	3	4	1	0.900	0.830	0.070	0.070	4200	31%
5	0.430	0.770	4	5	1	0.830	0.770	0.060	0.060	3600	36%
6	0.470	0.730	5	6	1	0.770	0.730	0.040	0.040	2400	39%
8	0.550	0.650	6	8	2	0.730	0.650	0.080	0.040	2400	46%
10	0.630	0.570	8	10	2	0.650	0.570	0.080	0.040	2400	53%
12	0.700	0.500	10	12	2	0.570	0.500	0.070	0.035	2100	58%
14	0.750	0.450	12	14	2	0.500	0.450	0.050	0.025	1500	63%
18	0.850	0.350	14	18	4	0.450	0.350	0.100	0.025	1500	71%
20	0.900	0.300	18	20	2	0.350	0.300	0.050	0.025	1500	75%
22	0.960	0.240	20	22	2	0.300	0.240	0.060	0.030	1800	80%
24	1.000	0.200	22	24	2	0.240	0.200	0.040	0.020	1200	83%
26	1.070	0.130	24	26	2	0.200	0.130	0.070	0.035	2100	89%

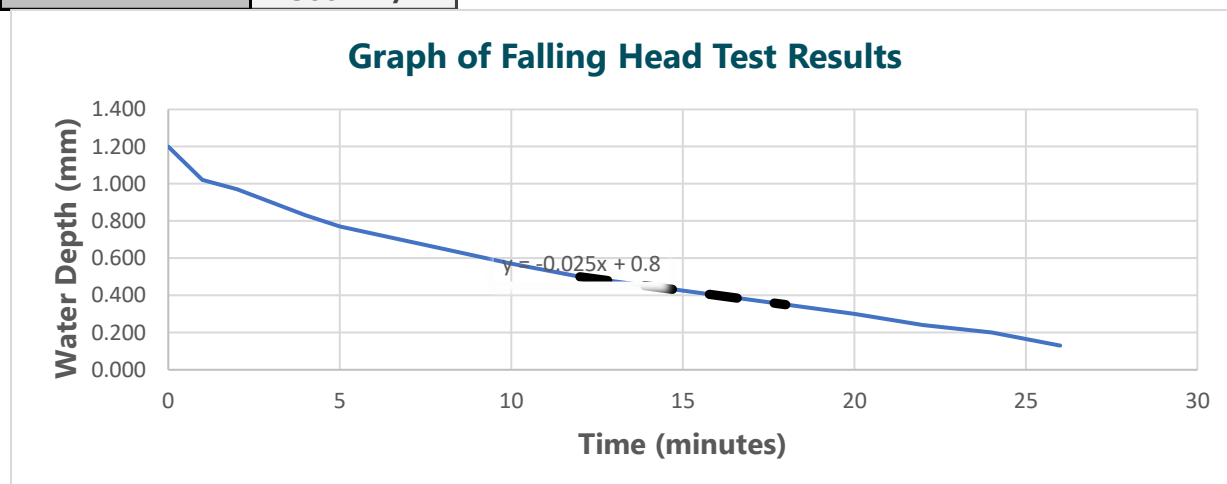
12	0.500	Selected points for minimum gradient
18	0.350	

Minimum Gradient - assessed from graph below

y	0.150m	x	6min	Gradient	y/x	0.025
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Percolation Rate

Percolation Rate =	1500mm/hr
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Appendix L: Statement of Professional Opinion

APPENDIX I

Statement of Professional Opinion on the Suitability of Land for Subdivision

ISSUED BY: CGW Consulting Engineers
(Geotechnical engineering firm or suitably qualified Geoprofessional)

TO: Kapiti Coast District Council / Environmental Protection Agency
(Territorial authority)

TO BE SUPPLIED TO: Waikanae North Development C/- Paul Turner
(Owner/Developer)

IN RESPECT OF: Proposed Large-scale Residential & Commercial Development
(Description of infrastructure/land development)

AT: 169 to 171 Peka Peka Road, Kapiti

(Address)

I Robert Bruce Smith on behalf of
(Geoprofessional)
CGW Consulting Engineers
(Geotechnical engineering firm)

hereby confirm:

1. I am a suitably qualified and experienced Geoprofessional employed by CGW Consulting Engineers and the geotechnical firm named above was retained by the owner/developer as the Geoprofessional on the above proposed development.

2. The geotechnical assessment report, dated 25/03/2026 has been carried out in accordance with the Ministry of Business, Innovation and Employment Earthquake Geotechnical Engineering Practice Modules 1 to 5 and includes:

- (i) Details of and the results of my/the site investigations.
- (ii) A liquefaction and lateral spread assessment.
- (iii) An assessment of rockfall and slippage, including hazards resulting from seismic activity.
- (iv) An assessment of the slope stability and ground bearing capacity confirming the location and appropriateness of building sites.
- (v) Recommendations proposing measures to avoid, remedy or mitigate any potential hazards on the land subject to the application, in accordance with the provisions of Section 106 of the Resource Management Act 1991.

3. In my professional opinion, not to be construed as a guarantee, I consider that Council/EPA is justified in granting consent incorporating the following conditions:

(i) Foundations consistent with defined areas.

(ii) Developed slope stability analysis to be undertaken during Detailed Design stage

4. This professional opinion is furnished to the territorial authority and the owner/developer for their purposes alone, on the express condition that it will not be relied upon by any other person and does not remove the necessity for the normal inspection of foundation conditions at the time of erection of any building. It is limited to those items referred to in clause 2 only.

5. This statement shall be read in conjunction with the geotechnical report referred to in clause 2 above, and shall not be copied or reproduced except in conjunction with the full geotechnical completion report.

6. Liability under this statement accrues to the geotechnical firm only and no liability shall accrue to the individual completing this statement.

7. The geotechnical engineering firm issuing this statement holds a current policy of professional indemnity insurance of no less than \$1,000,000.00_____

(Minimum amount of insurance shall be commensurate with the current amounts recommended by ENGINEERING NEW ZEALAND, ACENZ, NZTA, INGENIUM.)

R. Smith Date: 23/03/2026

(Signature of engineer, for and on behalf of CGW Consulting Engineers)

Qualifications and experience

CMEngNZ CPEng IntPE(NZ) / APEC Engineer

This form is to accompany Form 9 – Resource Management Act 1991 (Application for a Resource Consent (Subdivision))

Appendix M: Expert Witness Statement

EXPERT WITNESS STATEMENT

Development Name: Waikanae North Subdivision

Developers Name and Company: Waikanae North Developments Ltd

Geotechnical designer's name and company: Robert Bruce Smith – CGW Consulting Engineers

I confirm that I, Robert Bruce Smith, Principal Geotechnical Engineer of CGW Consulting Engineers, am qualified as a Chartered Professional Engineer with experience in Geotechnical Engineering and am a Chartered Member of Engineering New Zealand.

I confirm that I have read and agree to comply with the Code of Conduct for Expert Witnesses, set out in the Environment Court Practice Note 2023. This report has been prepared in accordance with that Code.

The opinions expressed are within my area of expertise, and I have not omitted to consider material facts known to me that might alter or detract from those opinions.

I confirm that, to the best of my knowledge, I am not subject to any conflict of interest in providing this assessment.

Signed:



Robert Bruce Smith (CPEng Registration #: 1008943).

CMEngNZ CPEng IntPE(NZ) / APEC Engineer (Geotechnical)

Date: 25 March 2026