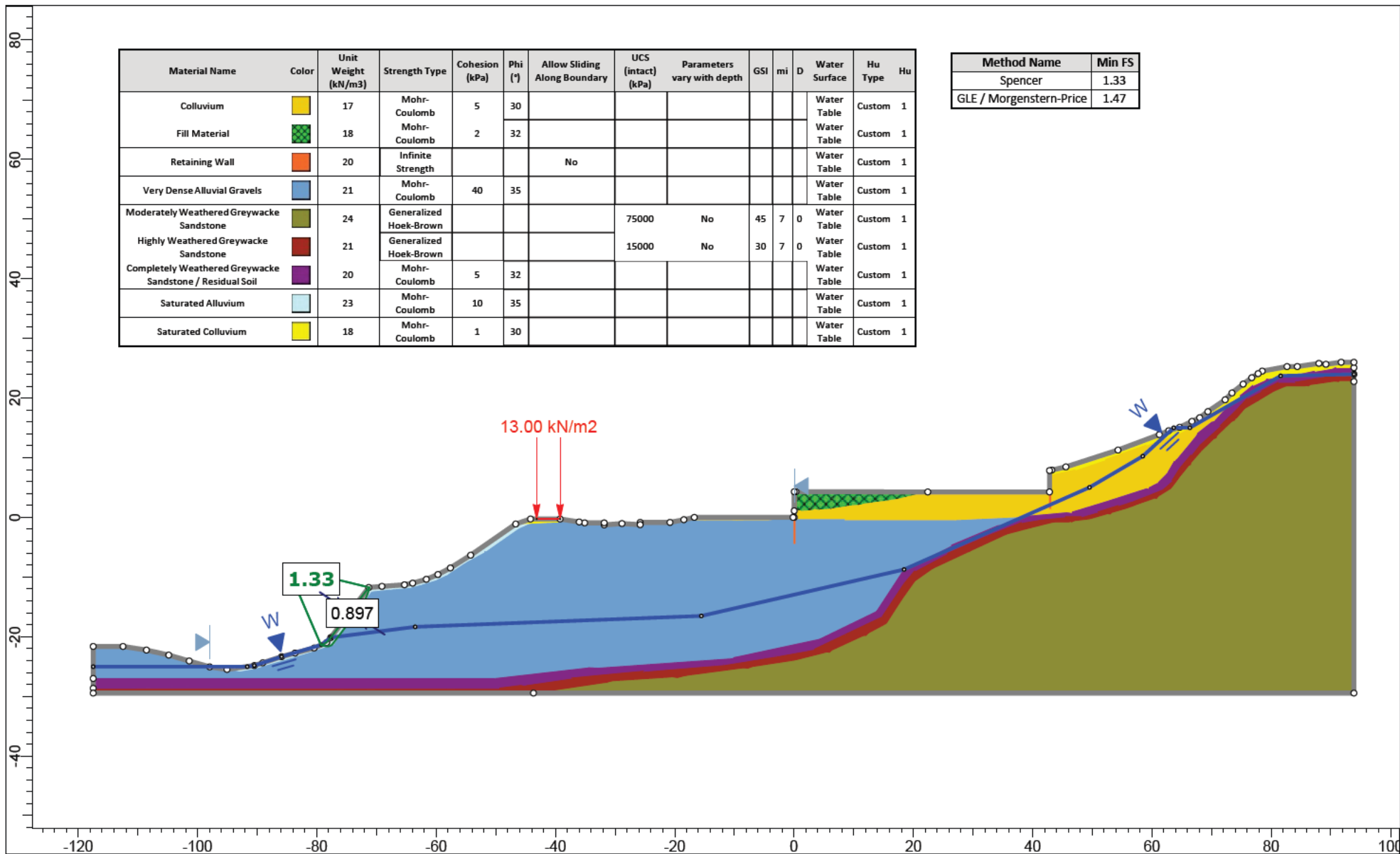




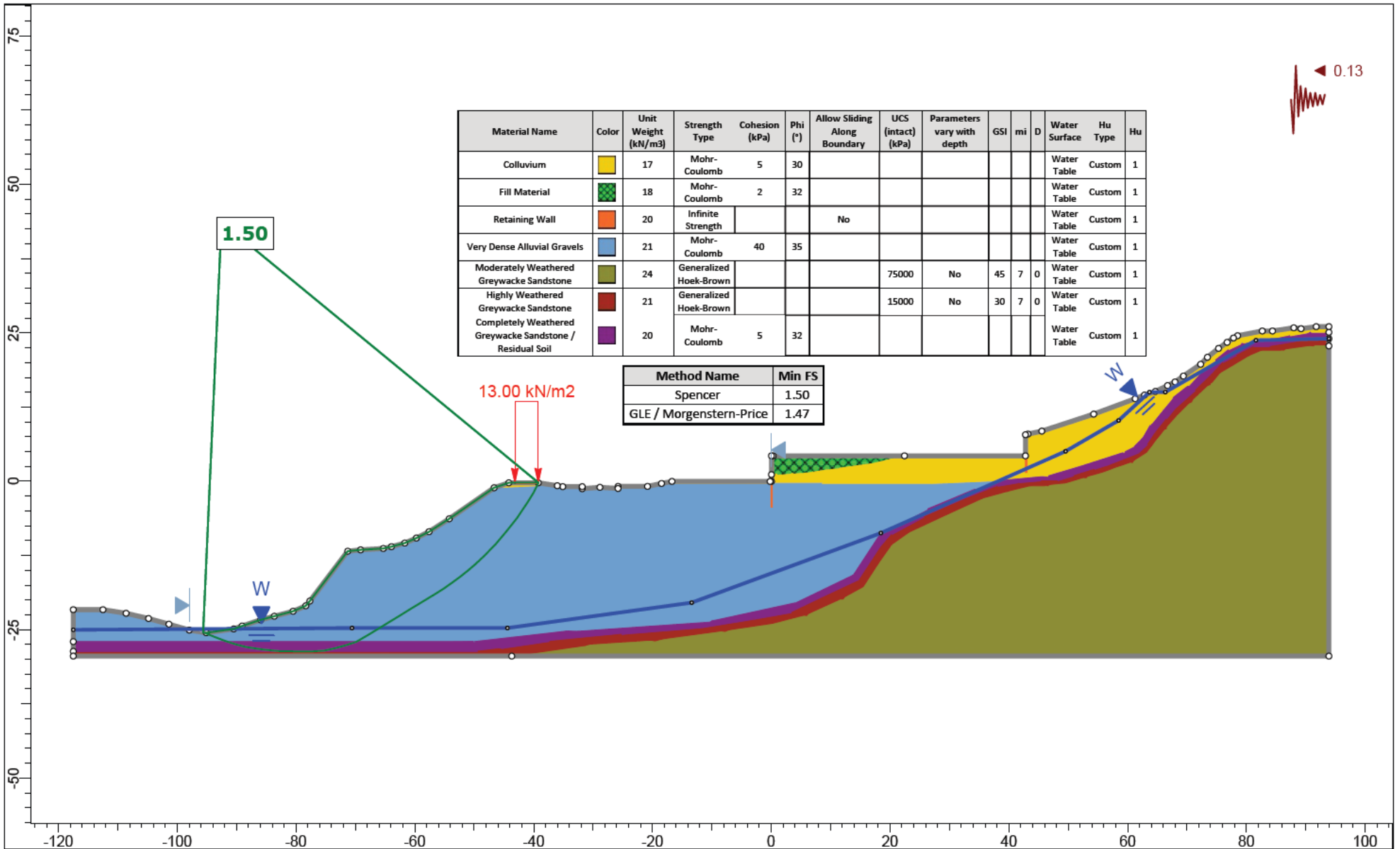
Material Name	Color	Unit Weight (kN/m ³)	Strength Type	Cohesion (kPa)	Phi (°)	Allow Sliding Along Boundary	UCS (intact) (kPa)	Parameters vary with depth	GSI	mi	D	Water Surface	Hu Type	Hu
Colluvium		17	Mohr-Coulomb	5	30							Water Table	Custom	1
Fill Material		18	Mohr-Coulomb	2	32							Water Table	Custom	1
Retaining Wall		20	Infinite Strength			No						Water Table	Custom	1
Very Dense Alluvial Gravels		21	Mohr-Coulomb	40	35							Water Table	Custom	1
Moderately Weathered Greywacke Sandstone		24	Generalized Hoek-Brown				75000	No	45	7	0	Water Table	Custom	1
Highly Weathered Greywacke Sandstone		21	Generalized Hoek-Brown				15000	No	30	7	0	Water Table	Custom	1
Completely Weathered Greywacke Sandstone / Residual Soil		20	Mohr-Coulomb	5	32							Water Table	Custom	1
Saturated Alluvium		23	Mohr-Coulomb	10	35							Water Table	Custom	1
Saturated Colluvium		18	Mohr-Coulomb	1	30							Water Table	Custom	1

Method Name	Min FS
Spencer	1.33
GLE / Morgenstern-Price	1.47

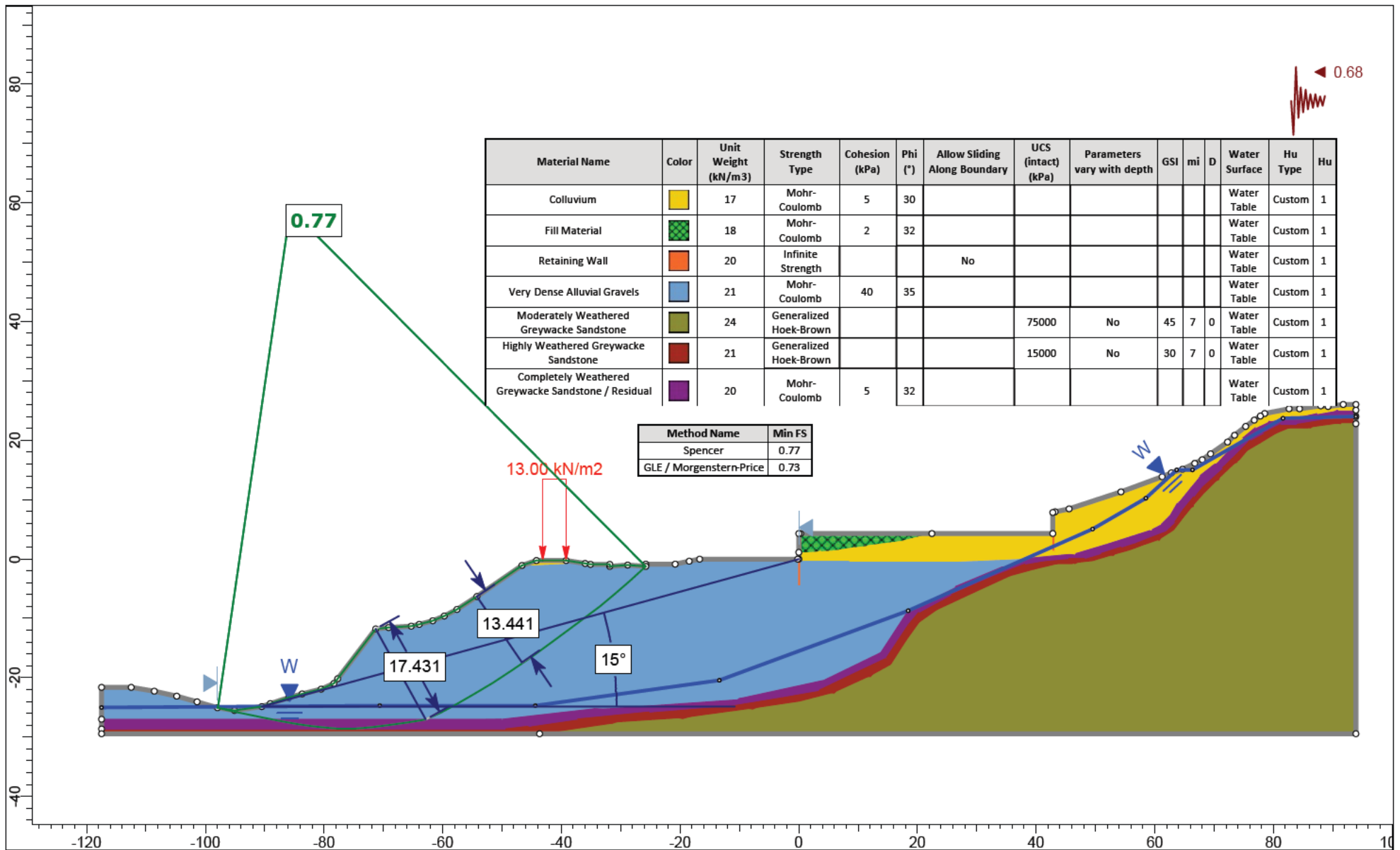


SLIDEINTERPRET 9.038

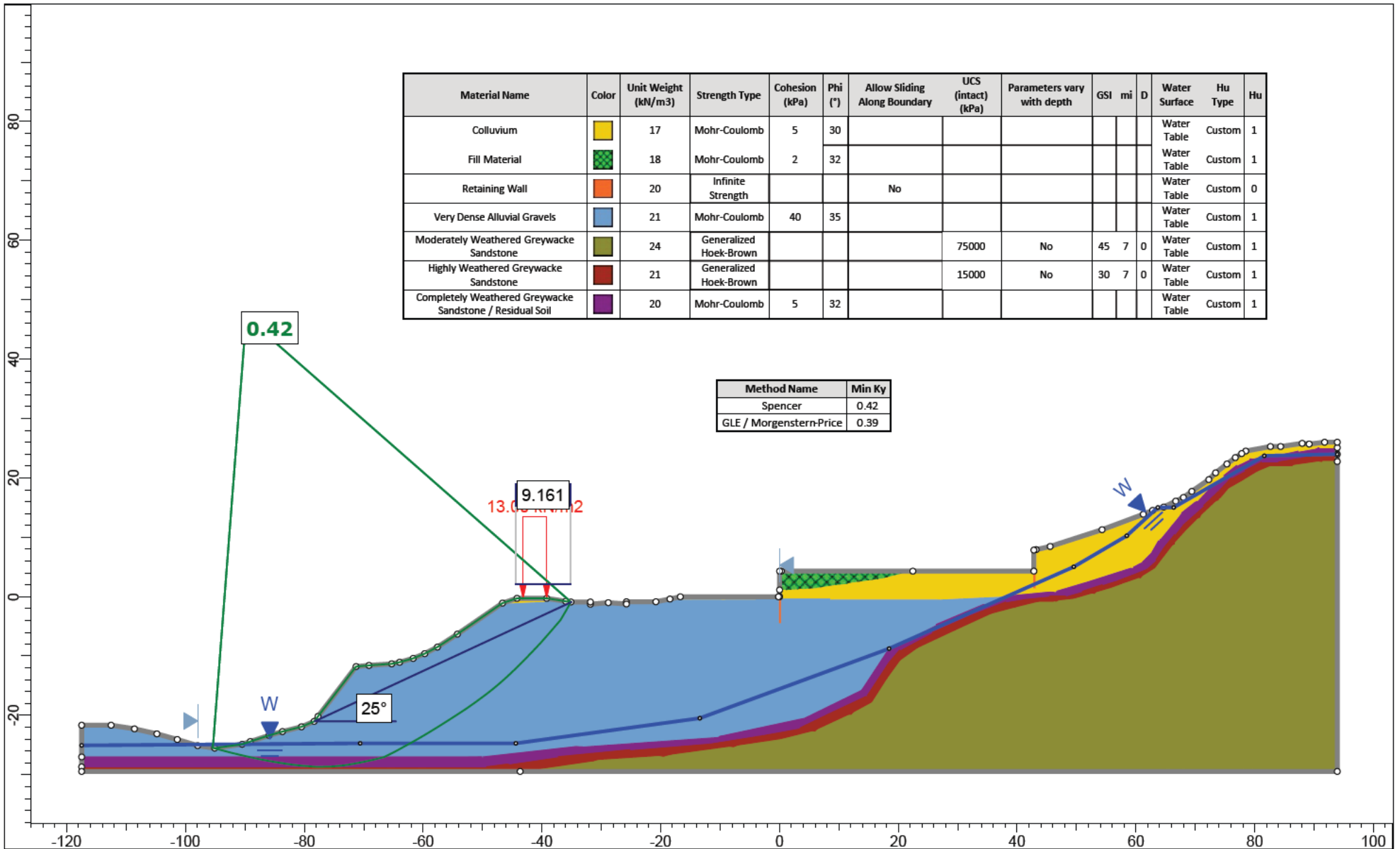
Project				Slide2 - An Interactive Slope Stability Program			
Group		Section C-C' Group Below Site			Scenario		Raised Ground Water/Wet Front
Drawn By					Company		
Date		24/03/2026, 8:59:34 pm			File Name		Stage-3_Slope-Stability-Section-A-C.slmd



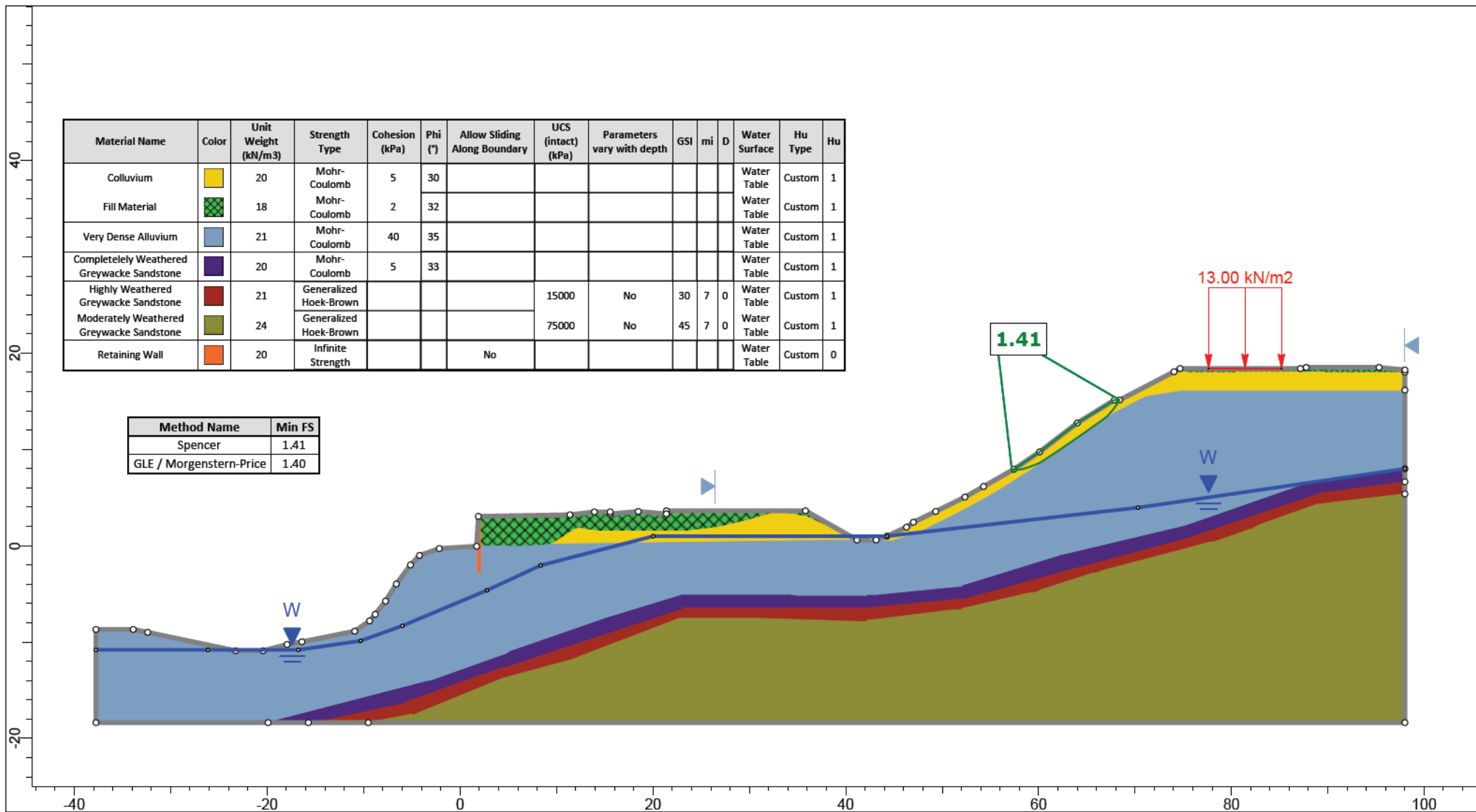
rocscience SLIDEINTERPRET 9.038	Project		Slide2 - An Interactive Slope Stability Program	
	Group	Section C-C' Group Below Site	Scenario	Servicability Limit State
	Drawn By		Company	
	Date	24/03/2026, 8:59:34 pm	File Name	Stage-3_Slope-Stability-Section-A-C.slmd

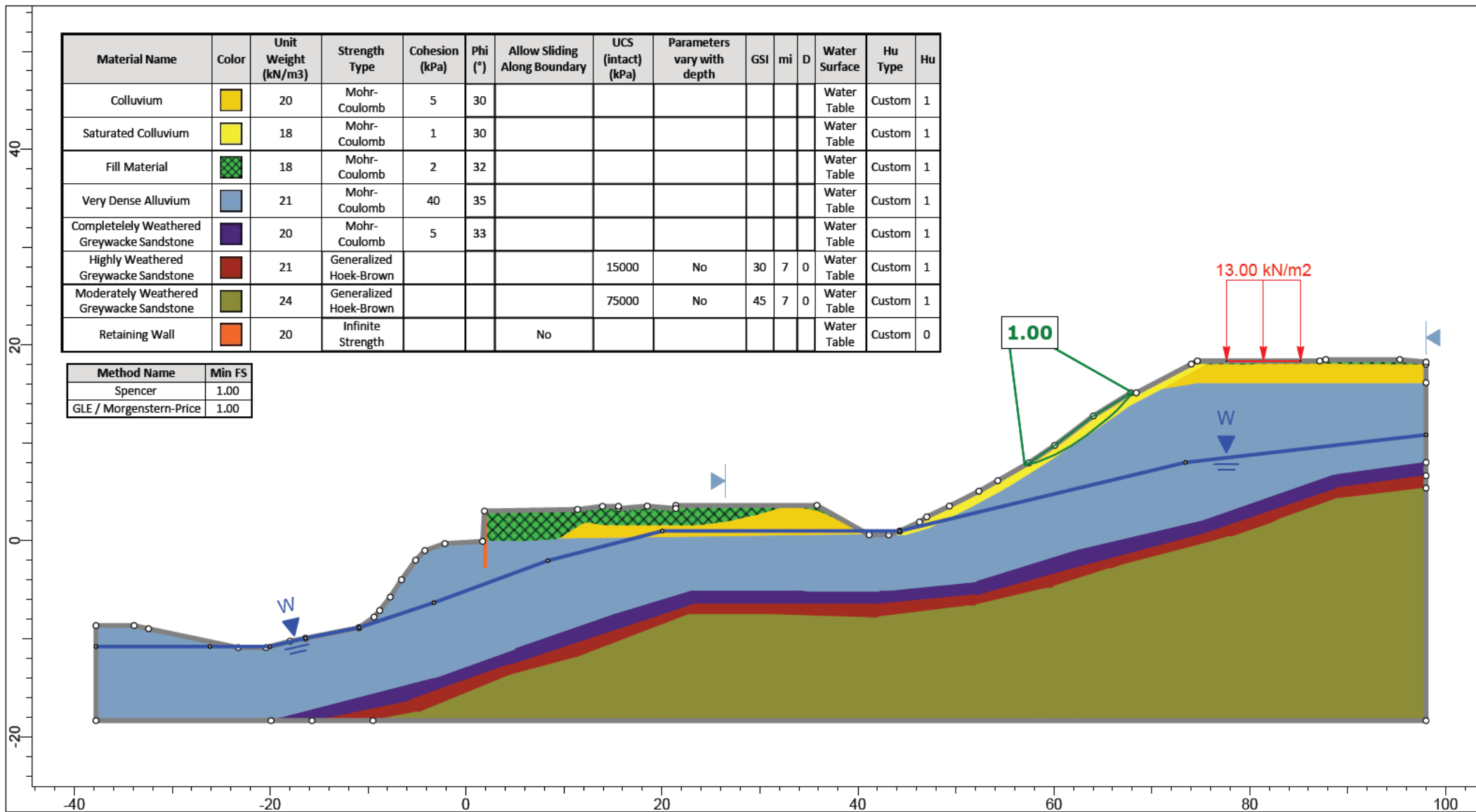


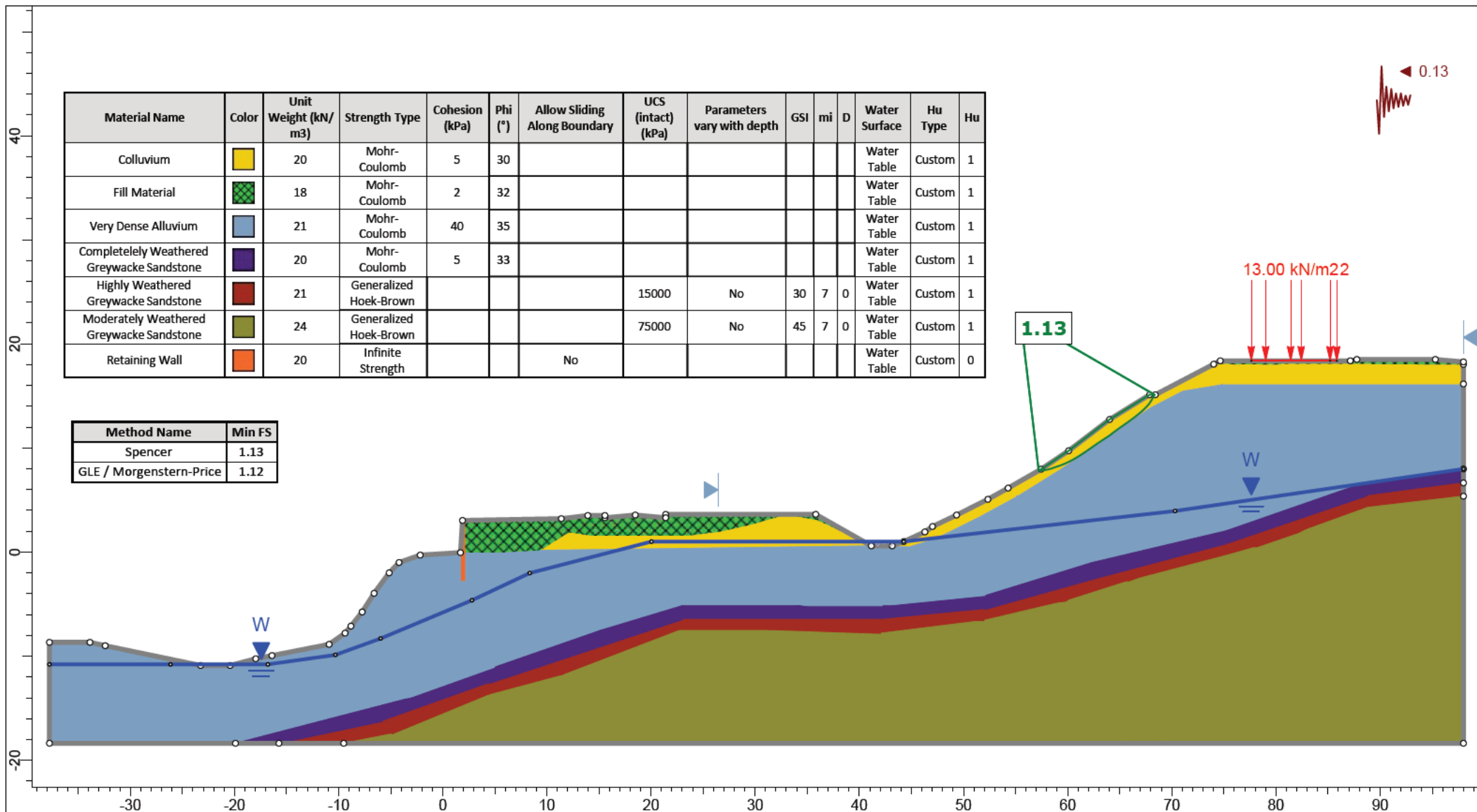
rocscience SLIDEINTERPRET 9.038	Project		Slide2 - An Interactive Slope Stability Program	
	Group	Section C-C' Group Below Site	Scenario	Ultimate Limit State
	Drawn By		Company	
	Date	24/03/2026, 8:59:34 pm	File Name	Stage-3_Slope-Stability-Section-A-C.slm



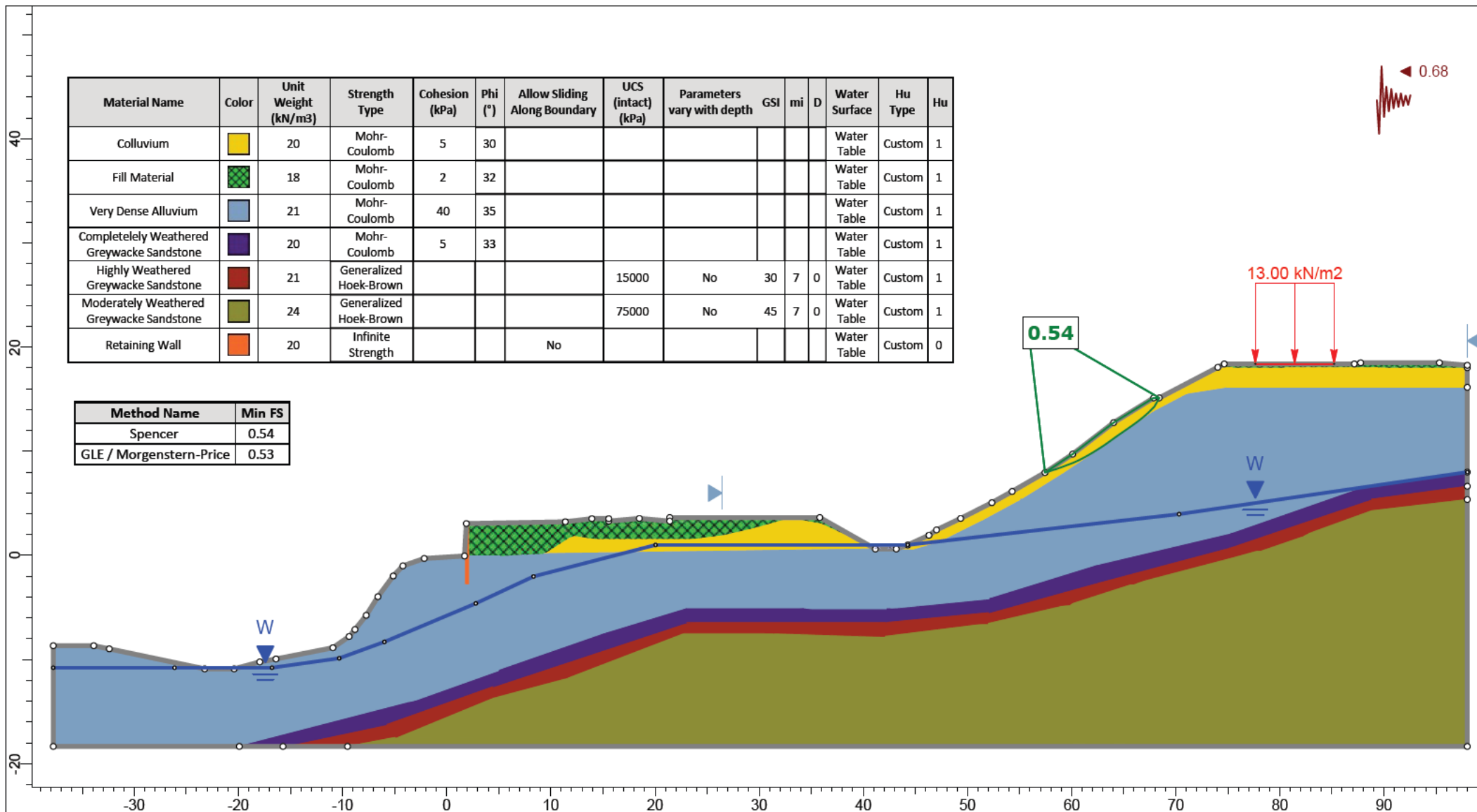
rocscience SLIDEINTERPRET 9.038	Project			Slide2 - An Interactive Slope Stability Program	
	Group		Section C-C' Group Below Site		Scenario
	Drawn By				Company
	Date		24/03/2026, 8:59:34 pm		File Name
					Stage-3_Slope-Stability-Section-A-C.slmd

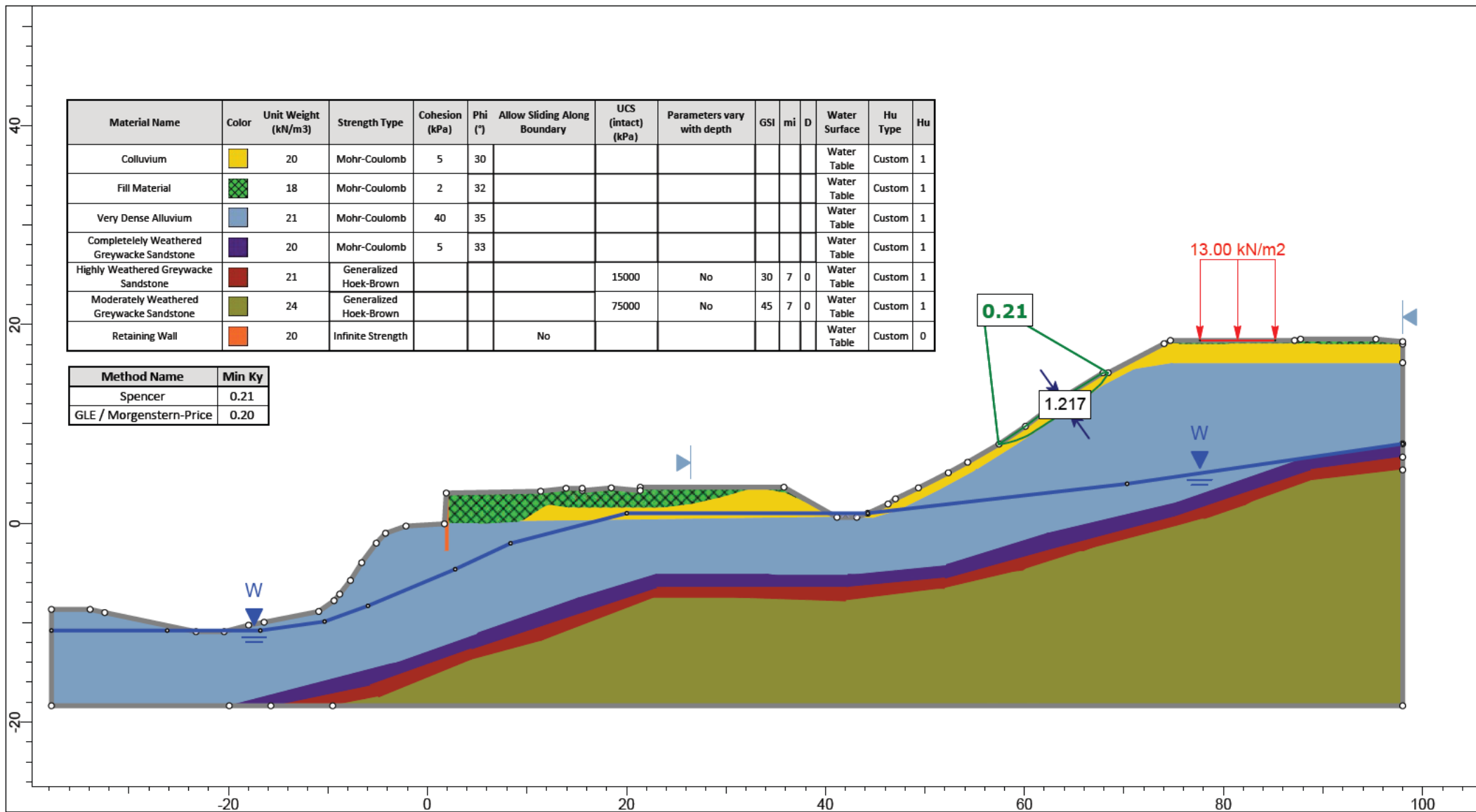


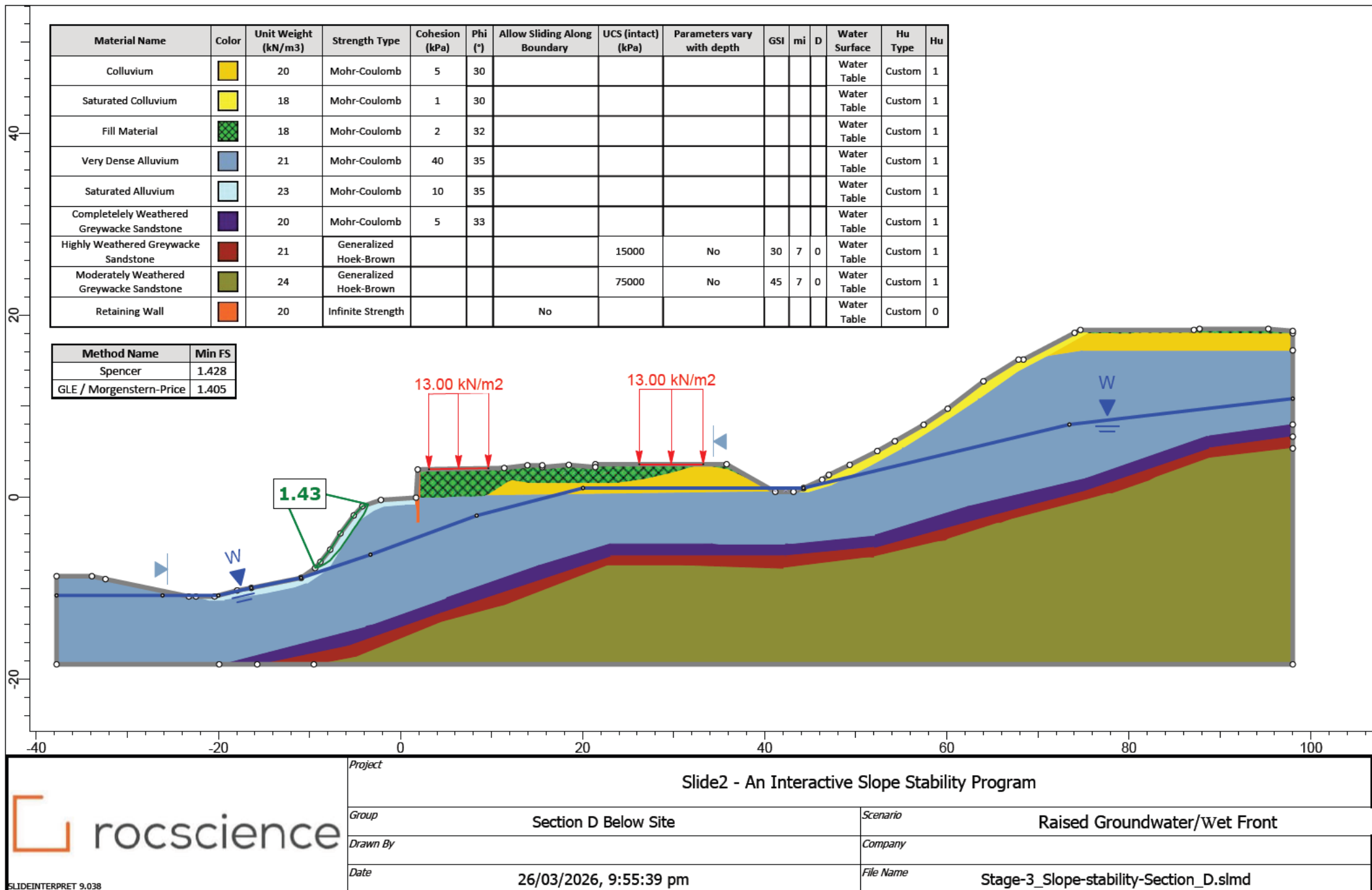


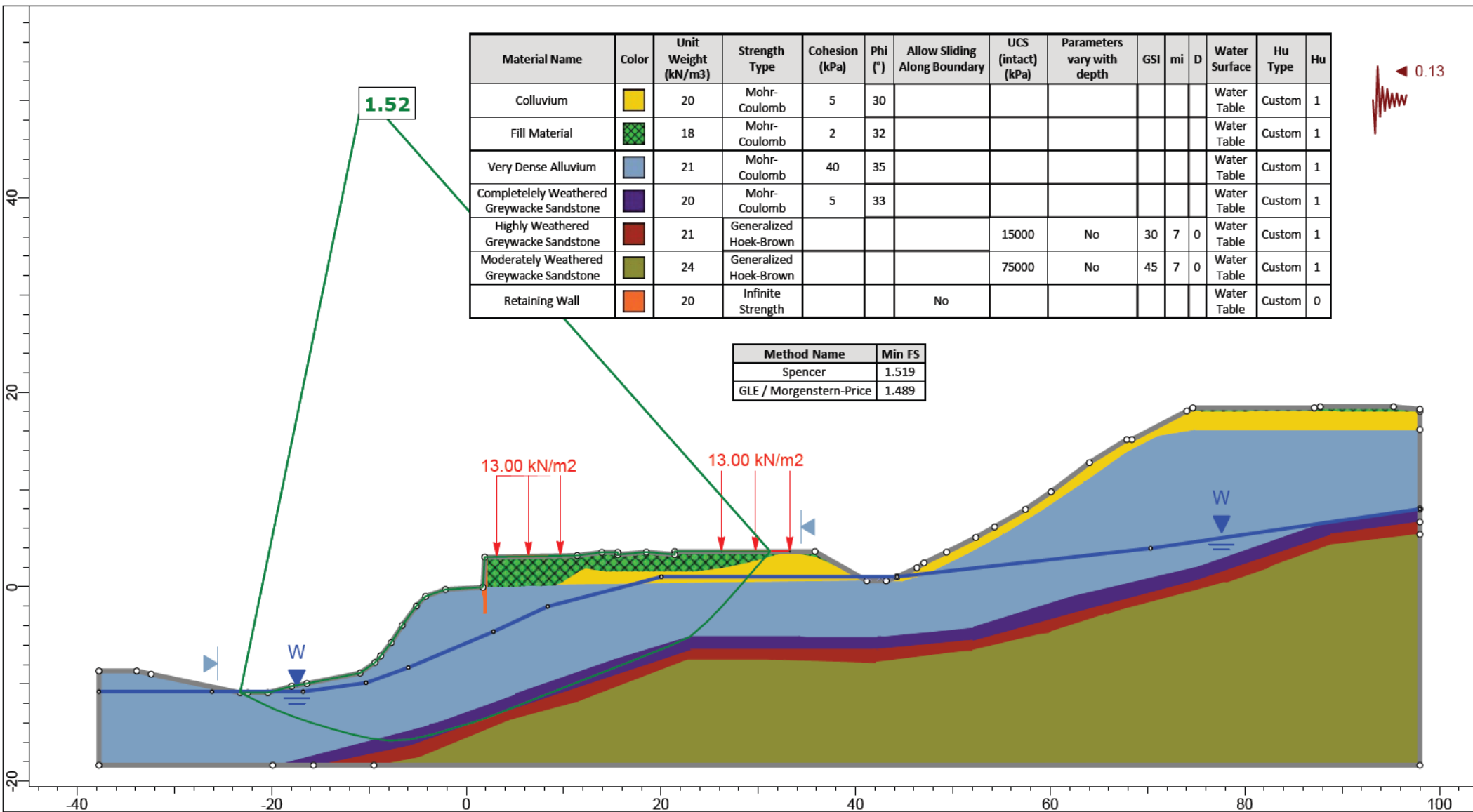


Project		Slide2 - An Interactive Slope Stability Program	
Group	Section D Above Site	Scenario	Servicability Limit State
Drawn By		Company	
Date	26/03/2026, 9:55:39 pm	File Name	Stage-3_Slope-stability-Section_D.slm



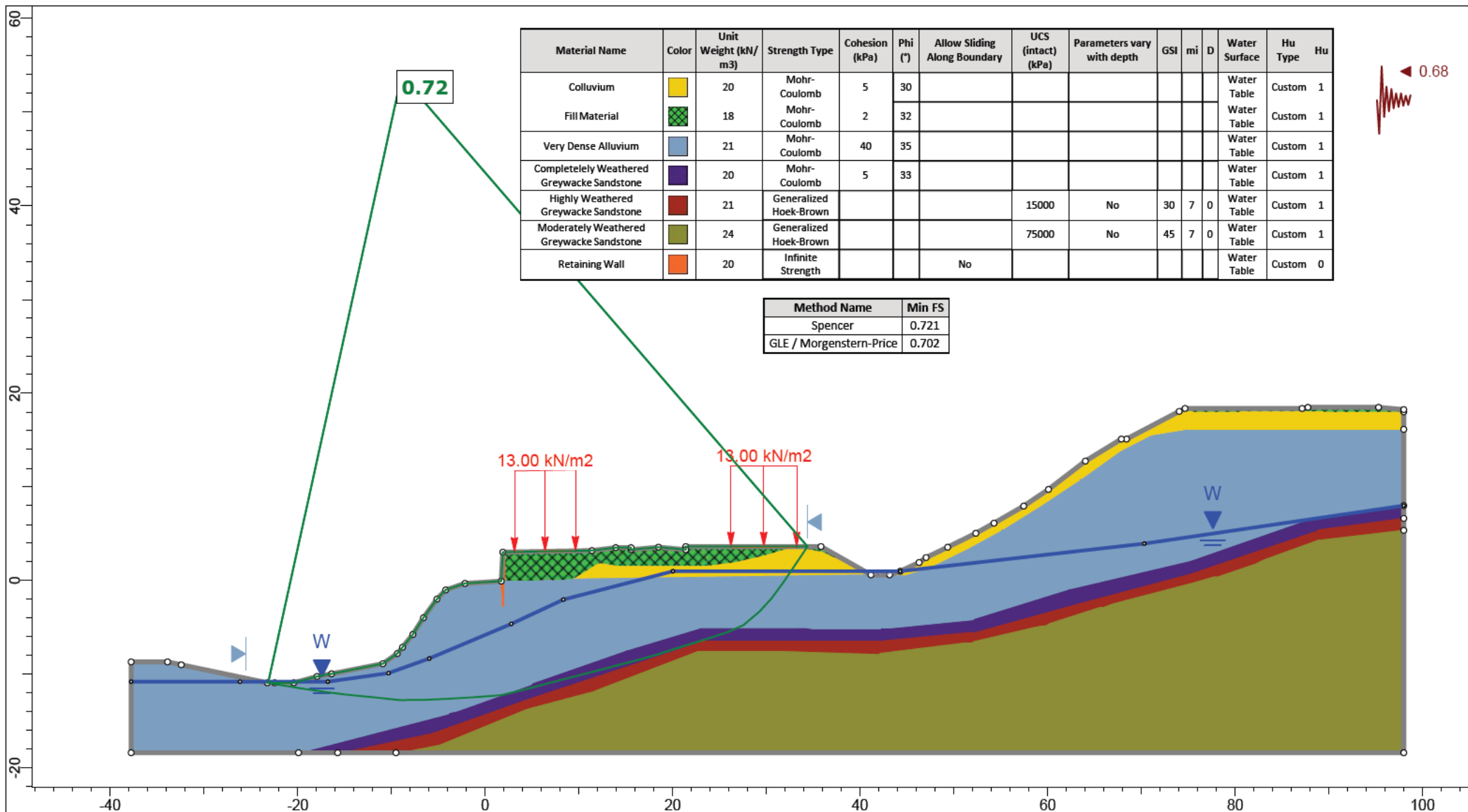






SLIDEINTERPRET 9.038

Project		Slide2 - An Interactive Slope Stability Program	
Group		Section D Below Site	Scenario
Drawn By			Servicability Limit State
Date		26/03/2026, 9:55:39 pm	Company
			File Name
			Stage-3_Slope-stability-Section_D.slmd



Project		Slide2 - An Interactive Slope Stability Program	
Group	Section D Below Site	Scenario	Ultimate Limit State
Drawn By		Company	
Date	26/03/2026, 9:55:39 pm	File Name	Stage-3_Slope-stability-Section_D.slm



Appendix 7: SED Construction Zone



LEGEND

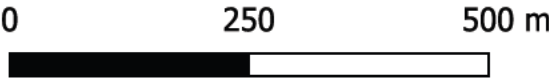
Features

- NZ Property Boundaries
- Cross Sections Locations

Setback / Avoidance

- Zone A - 10 m SED
- Zone B - 21 m SED
- Zone C - 32 m SED

Stage 3 Proposed Lot Location Plans



Projection: NZTM 2000NZGD2000 / New Zealand Transverse Mercator 2000

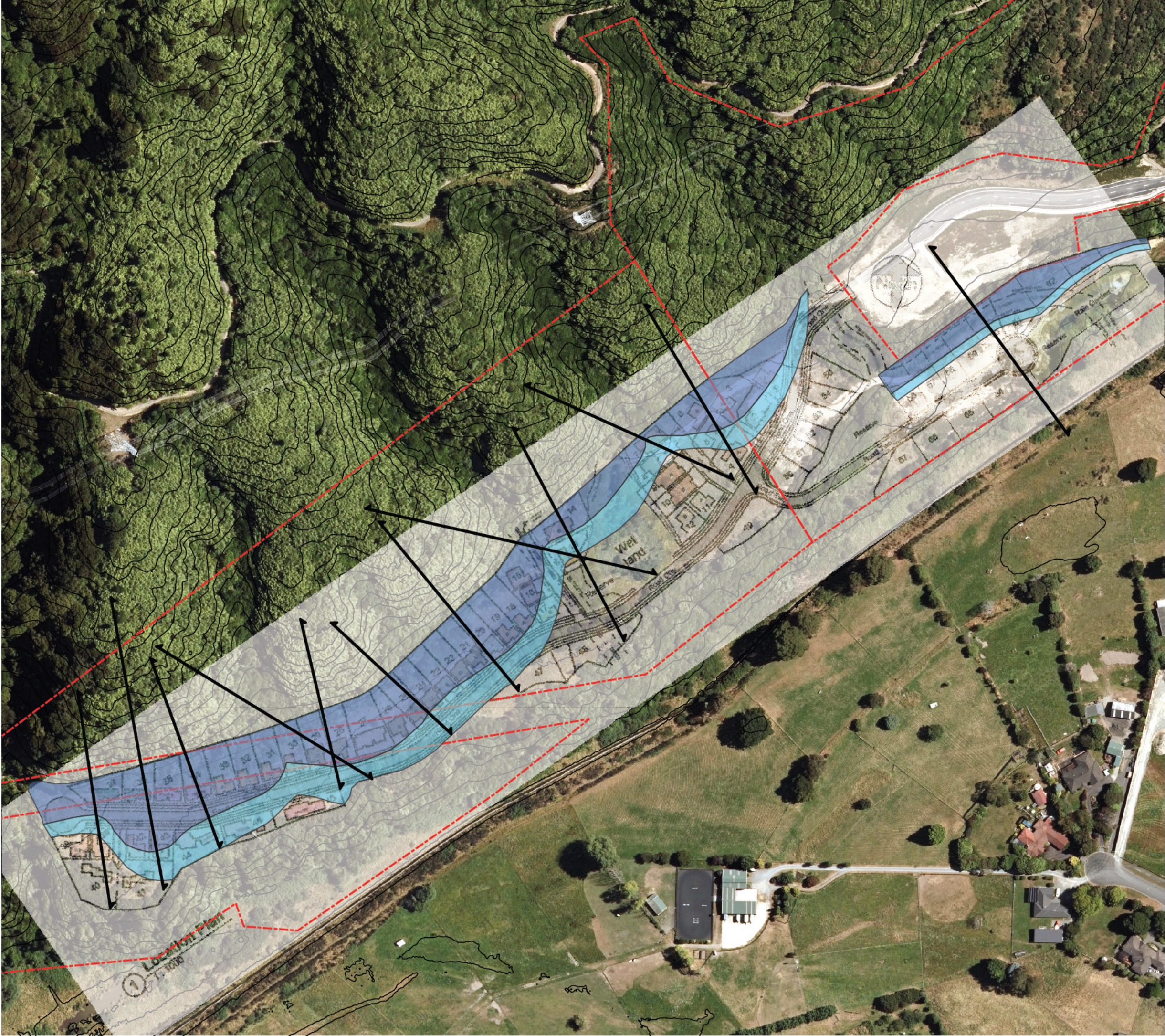
Client: Simon Zhang C/o Vecta Limited

Title: Stage 3 Terrace Riser SED Construction Zones		Appendix No. Size: A3 Sheet
Project: Stage 3 Cannon Point	Drawn: KAJJ	
Date: 07/05/2026	Checked: RJ	
Proj No: 16998.000.002	Scale: 2100 @ A3	Version: 1.0



Appendix 8:

Debris Runout Exceedance Areas



LEGEND

Features

- nz-property-titles
- F-Angle Cross Sections
- Proposed Slope Area Stage 3
- Mixed Saturated & Dry 25% Landslide Exceedence
- Saturated Material 25% Landslide Exceedence

Surfaces

Stage 3 Proposed Lot Location Plans



Projection: NZTM 2000NZGD2000 / New Zealand Transverse Mercator 2000

Client: Simon Zhang C/o Vecta Limited

Title: Shadow Angle Landslide Debris Exceedence Areas		Appendix No. Size: A3 Sheet
Project: Stage 3 Cannon Point, Totara Park	Drawn: KAJJ	
Date: 07/05/2026	Checked: RJ	
Proj No: 16998.00.002	Scale: 2100 @ A3	Version: 1.0

Appendix 9: Debris Flow Analysis

Appendix 9 - Model Results
30% Volumetric Solids Concentration

Lot Number	Approximate Inundation Percentage	Maximum Inundation Depth (m)	Maximum Debris Flow Velocity (m/s)	Intensity
1	10%	0.2	0.6	0.07
2	50%	0.15	0.6	0.05
3	75%	0.25	0.6	0.09
4	75%	0.2	0.45	0.04
5	20%	0.15	0.45	0.03
6	0%	NA	NA	NA
7	0%	NA	NA	NA
8	0%	NA	NA	NA
9	<10%	0.1	0.8	0.06
10	25%	0.1	0.55	0.03
11	50%	0.1	0.25	0.01
12	50%	0.1	0.3	0.01
13	<10%	0.9	0.7	0.44
14	<10%	0.25	0.45	0.05
15	<10%	0.35	1.3	0.59
16	0%	NA	NA	NA
17	<10%	0.05	0.9	0.04
18	<10%	0.25	0.7	0.12
19	10%	0.35	0.7	0.17
20	25%	0.35	0.5	0.09
21	60%	0.25	0.4	0.04
22	50%	0.2	0.5	0.05
23	50%	0.2	0.5	0.05
24	40%	0.25	0.45	0.05
25	50%	0.2	0.5	0.05
26	50%	0.25	0.45	0.05
27	30%	0.25	0.5	0.06
28	<10%	0.1	1	0.10
29	<10%	0.1	0.9	0.08
30	<10%	0.5	0.8	0.32
31	<10%	0.35	0.35	0.04
32	25%	0.4	0.4	0.06
33	25%	0.15	0.3	0.01
34	<10%	0.1	0.25	0.01
35	<10%	0.05	0.6	0.02
36	10%	0.25	0.95	0.23
37	25%	0.7	1.5	1.58
38	0%	NA	NA	NA
39	0%	NA	NA	NA
40	0%	NA	NA	NA
41	10%		0.6	0.00
42	0%	NA	NA	NA
43	50%	0.15	0.6	0.05
44	30%	0.2	0.45	0.04
45	<10%	0.2	0.45	0.04
46	0%	NA	NA	NA
47	50%	0.15	0.35	0.02
48	50%	0.15	0.45	0.03
49	25%	0.15	0.3	0.01
50	25%	0.15	0.6	0.05
51	25%	0.15	0.6	0.05
52	25%	0.15	0.6	0.05
53	20%	0.15	0.6	0.05
54	0%	NA	NA	NA
55	0%	NA	NA	NA
56	0%	NA	NA	NA
57	10%	0.3	0.95	0.27
58	10%	0.6	0.9	0.49
59	20%	0.6	0.75	0.34
60	<10%	0.35	0.4	0.06
61	0%	NA	NA	NA
62	0%	NA	NA	NA
63	0%	NA	NA	NA
64	0%	NA	NA	NA
65	0%	NA	NA	NA
66	0%	NA	NA	NA
67	0%	NA	NA	NA

Appendix 9 - Model Results
60% Volumetric Solids Concentration

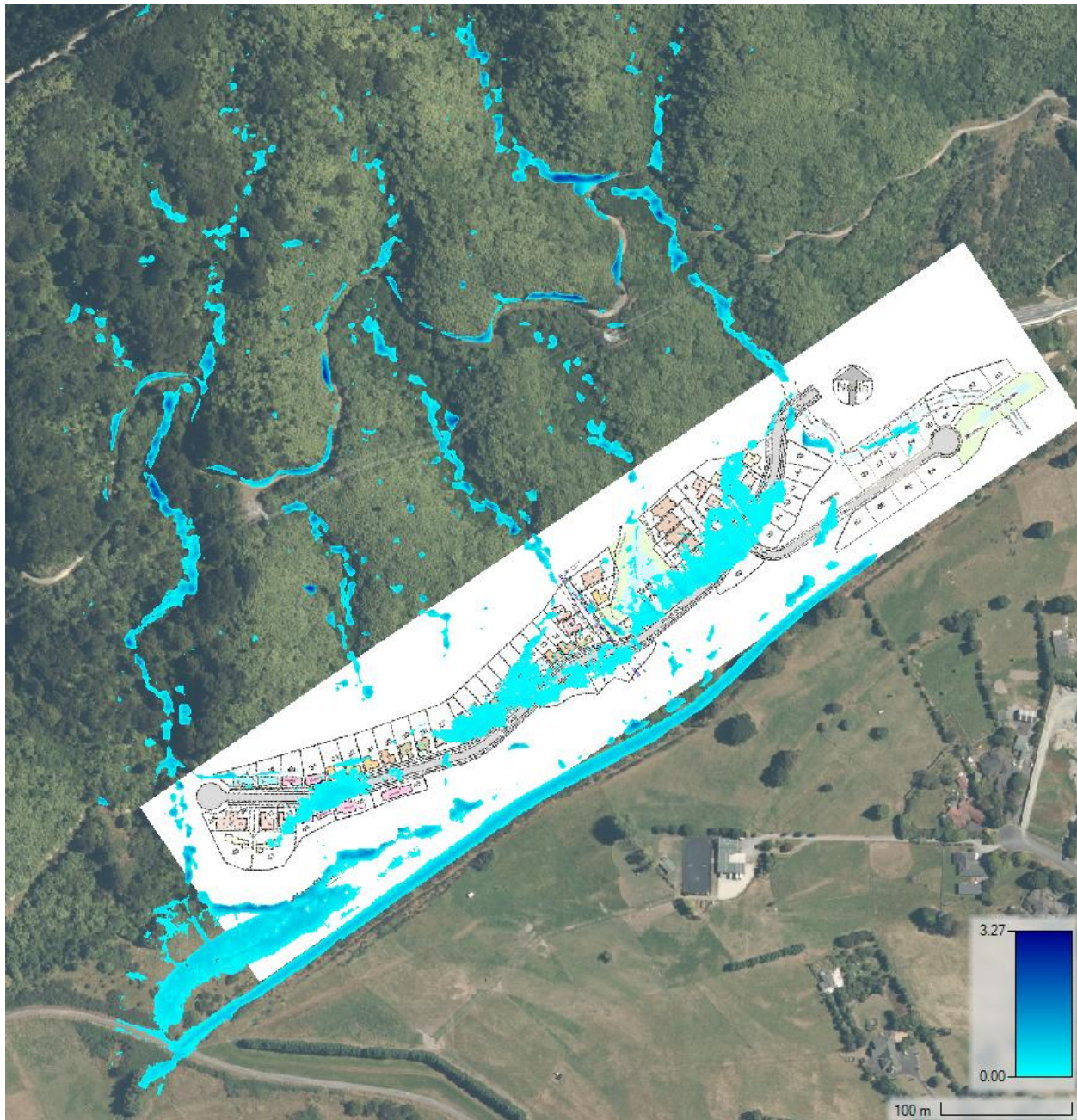
Lot Number	Approximate Inundation Percentage	Maximum Inundation Depth (m)	Maximum Debris Flow Velocity (m/s)	Intensity
1	100%	0.5	0.4	0.08
2	100%	0.5	0.4	0.08
3	75%	0.5	0.4	0.08
4	100%	0.5	0.3	0.05
5	50%	0.35	0.2	0.01
6	<10%	0.1	0.2	0.00
7	<10%	0.25	0.35	0.03
8	<10%	0.25	0.3	0.02
9	50%	0.35	0.4	0.06
10	100%	0.3	0.2	0.01
11	100%	0.55	0.25	0.03
12	100%	0.65	0.3	0.06
13	25%	1.3	0.25	0.08
14	50%	0.4	0.5	0.10
15	50%	0.65	0.65	0.27
16	75%	0.5	0.45	0.10
17	100%	0.5	0.45	0.10
18	75%	0.5	0.2	0.02
19	75%	0.55	0.2	0.02
20	75%	0.55	0.15	0.01
21	50%	0.45	0.15	0.01
22	50%	0.4	0.2	0.02
23	50%	0.5	0.25	0.03
24	50%	0.5	0.25	0.03
25	50%	0.4	0.25	0.03
26	50%	0.55	0.25	0.03
27	50%	0.65	0.6	0.23
28	50%	0.3	0.5	0.08
29	50%	0.3	0.25	0.02
30	10%	0.75	0.25	0.05
31	10%	0.4	0.1	0.00
32	50%	0.5	0.1	0.01
33	30%	0.3	0.1	0.00
34	20%	0.3	0.1	0.00
35	<10%	0.15	0.05	0.00
36	<10%	0.25	0.05	0.00
37	15%	0.60	0.05	0.00
38	0%	NA	NA	NA
39	0%	NA	NA	NA
40	0%	NA	NA	NA
41	30%	0.2	0.15	0.00
42	0%	NA	NA	NA
43	80%	0.35	0.15	0.01
44	50%	0.5	0.05	0.00
45	20%	0.35	0.1	0.00
46	<10%	0.15	0.1	0.00
47	75%	0.5	0.3	0.05
48	75%	0.6	0.35	0.07
49	30%	0.6	0.25	0.04
50	50%	0.6	0.4	0.10
51	30%	0.5	0.4	0.08
52	30%	0.4	0.45	0.08
53	30%	0.4	0.5	0.10
54	25%	0.3	0.65	0.13
55	0%	NA	NA	NA
56	0%	NA	NA	NA
57	20%	0.6	0.2	0.02
58	20%	0.9	0.3	0.08
59	40%	0.7	0.55	0.21
60	<10%	0.4	0.45	0.08
61	0%	NA	NA	NA
62	0%	NA	NA	NA
63	0%	NA	NA	NA
64	0%	NA	NA	NA
65	0%	NA	NA	NA
66	0%	NA	NA	NA
67	0%	NA	NA	NA



Appendix 10: Debris Flow Results Maps

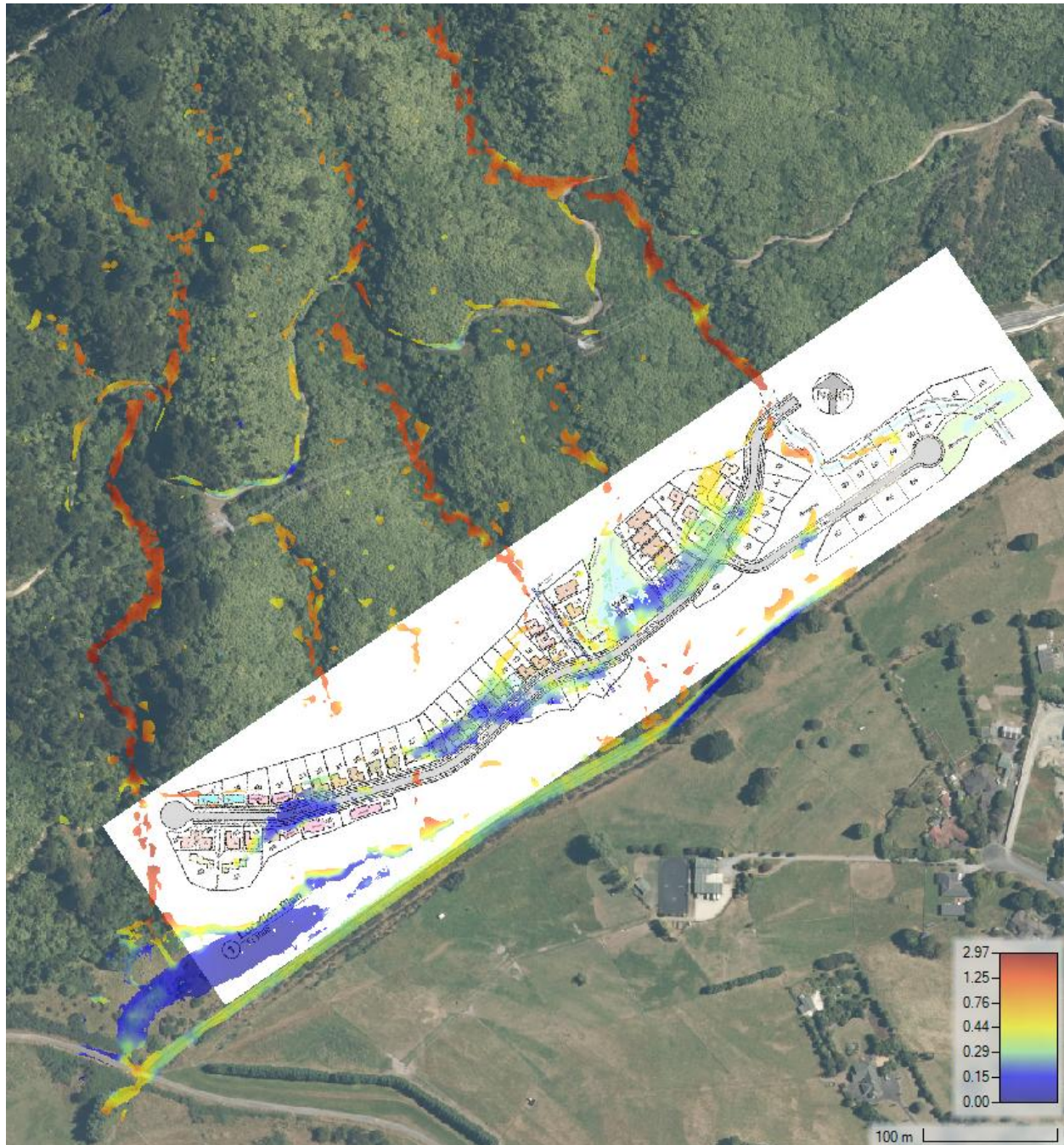
Appendix 10 – Debris Flow Model Results

Figure 1 – 30% Solids Volumetric Concentration Scenario – Maximum Depth



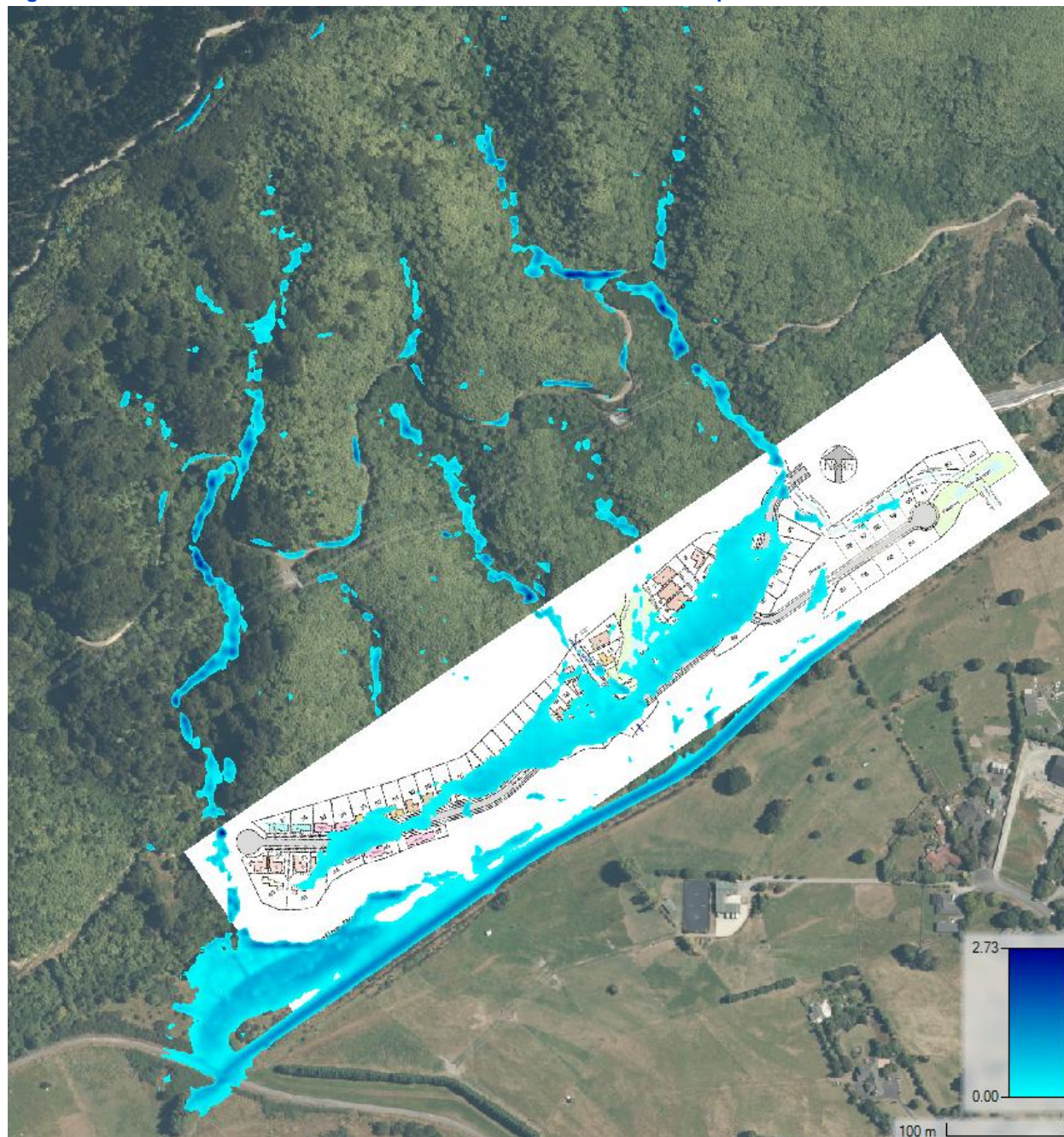
Appendix 10 – Debris Flow Model Results

Figure 2 – 30% Solids Volumetric Concentration Scenario – Maximum Velocity



Appendix 10 – Debris Flow Model Results

Figure 3 – 60% Solids Volumetric Concentration Scenario – Maximum Depth



Appendix 10 – Debris Flow Model Results

Figure 4 – 60% Solids Volumetric Concentration Scenario – Maximum Velocity

