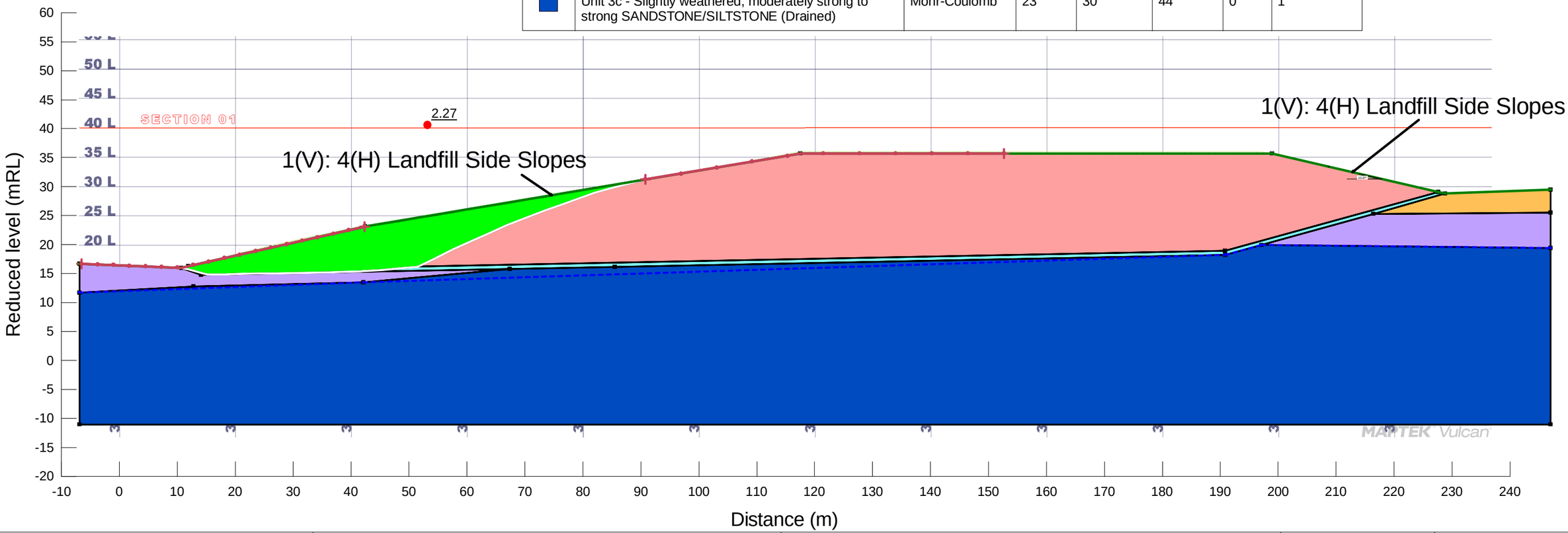
Horz Seismic Coef.:

Method: Morgenstern-Price

Section 1 - Outputs

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



wsp	Mt Cooee Landfill Development Plan	2.1 Static - Long term	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

U:\ProjectsNZ\6c\6-CO082.00 Mt Cooee Landfill - Development Plan & R\Home\Stage 2 - Geotech Interpretation\04 Slope Stability\SlopeW Files\Peer Review - IL3 Analyses\Mount Cooee Landfill - Section 1 - Proposed.gsz, Taghipouran, Nima, 28/08/2023,02:42:53 pm

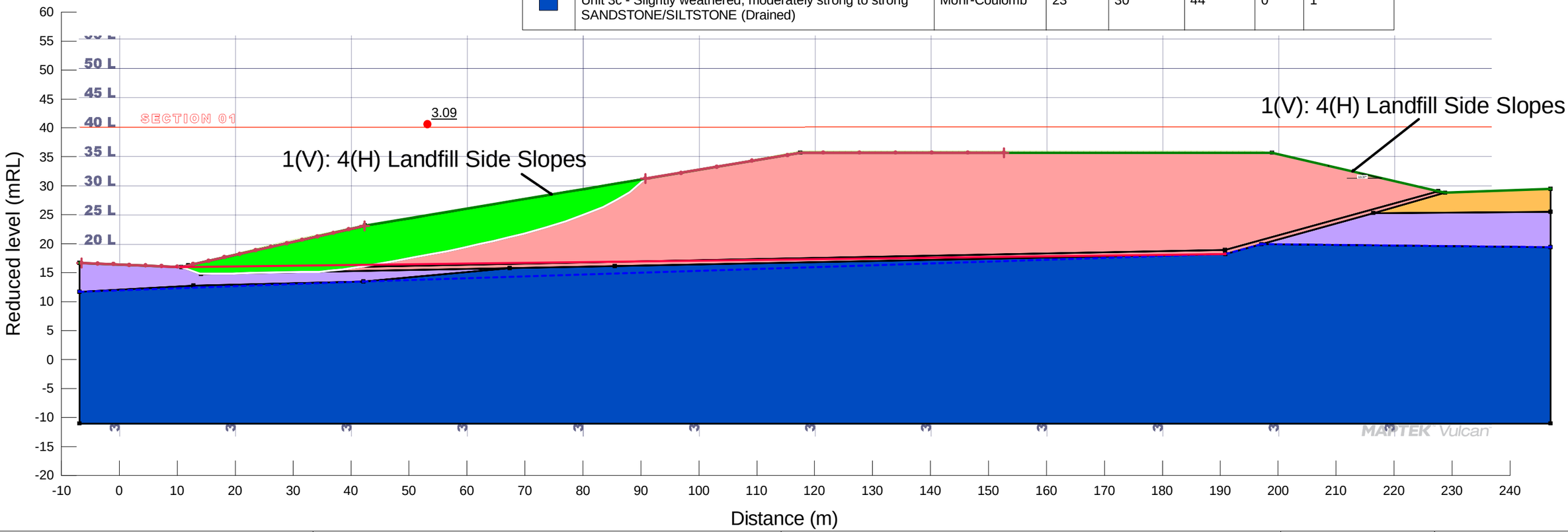
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



wsp	Mt Cooee Landfill Development Plan	2.1 Static - Long term - reinforcement	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

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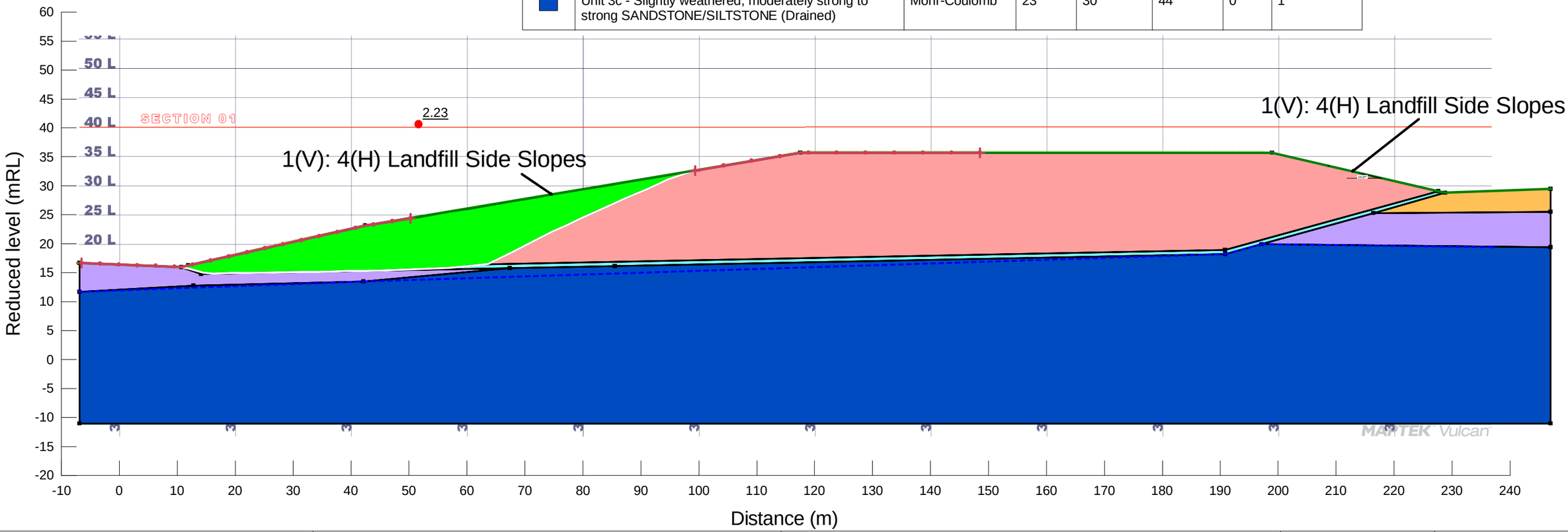
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1

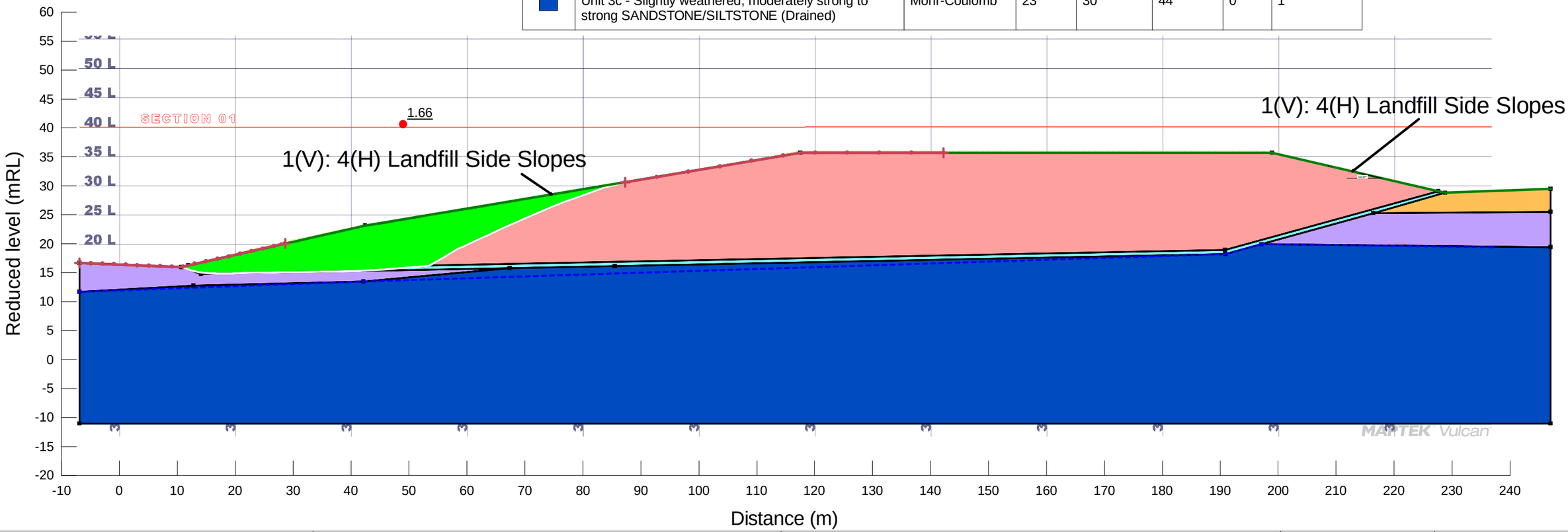


wsp	Mt Cooee Landfill Development Plan	2.2 Static - Short Term (High GWL)	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

Horz Seismic Coef.: 0.06

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



wsp	Mt Cooee Landfill Development Plan	2.3 Seismic - SLS	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

U:\ProjectsNZ\6c\6-CO082.00 Mt Cooee Landfill - Development Plan & R\Home\Stage 2 - Geotech Interpretation\04 Slope Stability\SlopeW Files\Peer Review - IL3 Analyses\Mount Cooee Landfill - Section 1 - Proposed.gsz, Taghipouran, Nima, 28/08/2023,02:42:53 pm

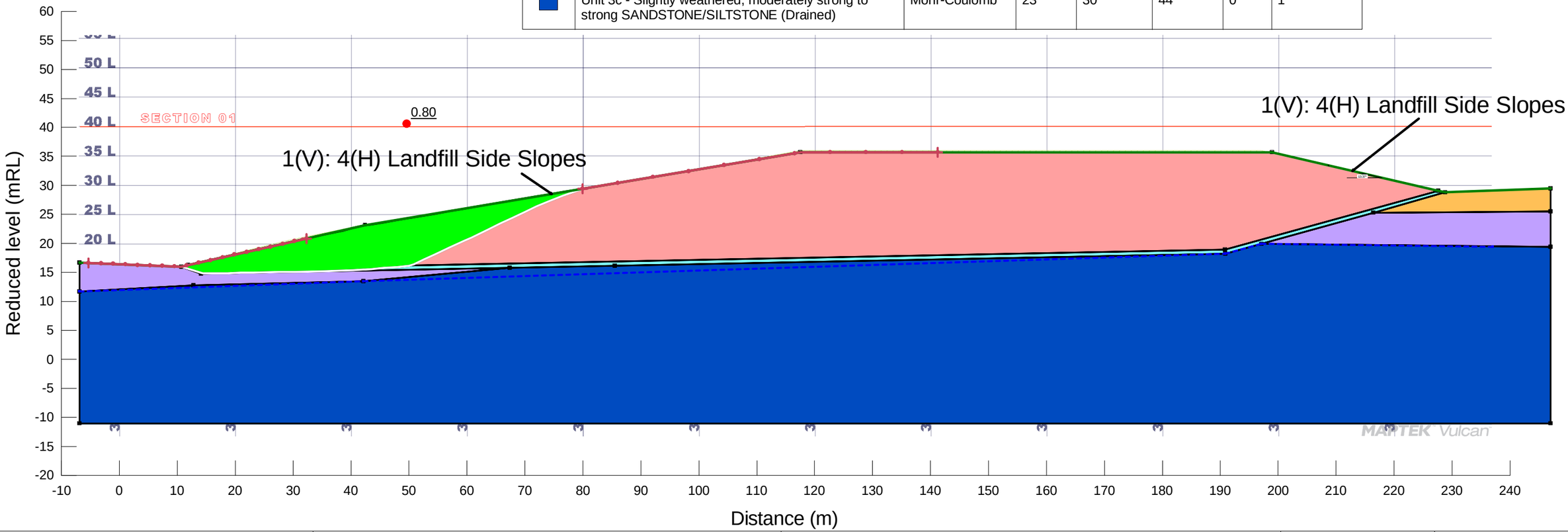
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.: 0.29

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1

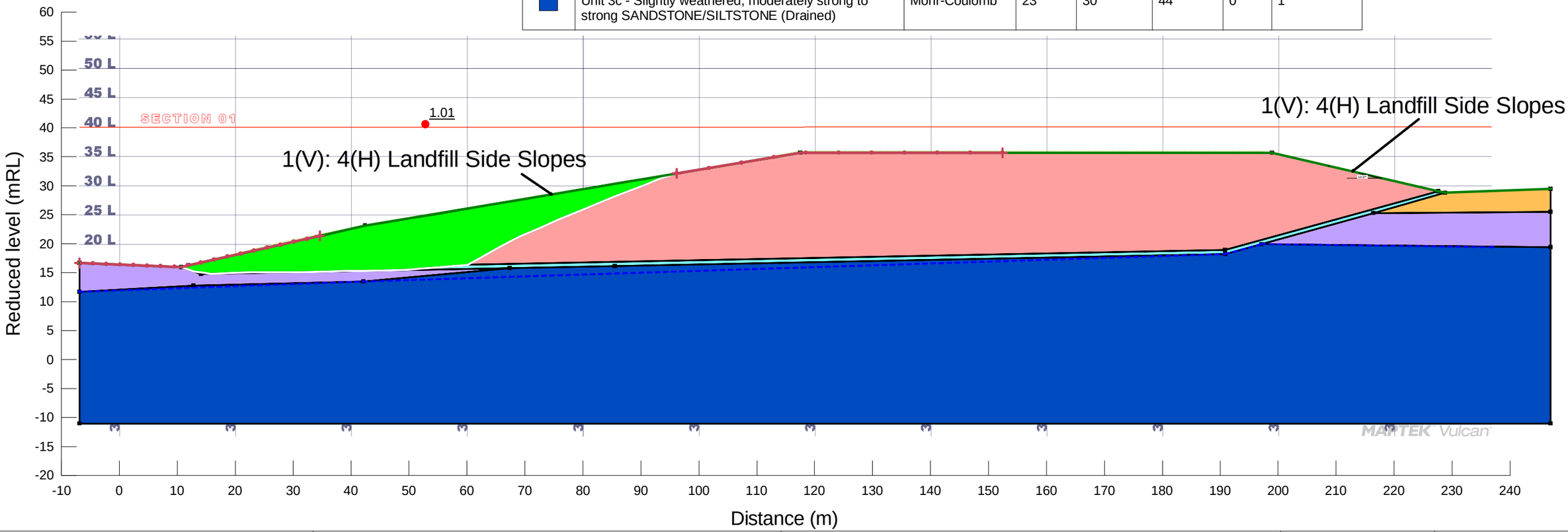


wsp	Mt Cooee Landfill Development Plan	2.4 Seismic - DCLS	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

Horz Seismic Coef.: 0.2

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1

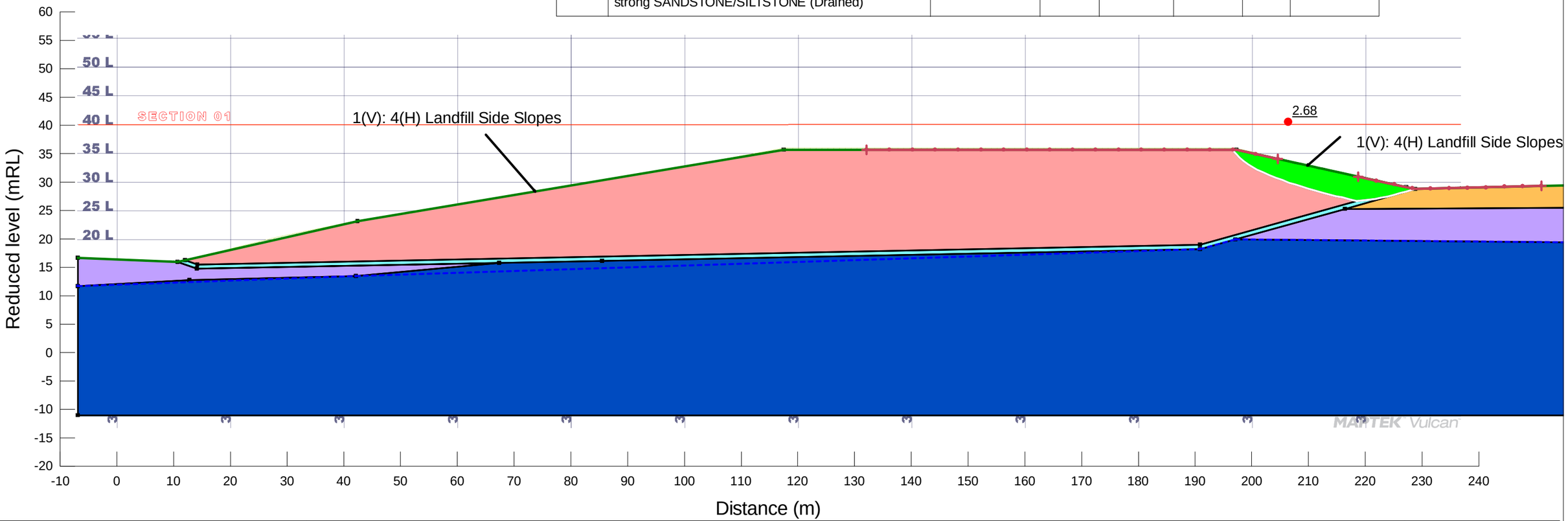


wsp	Mt Cooee Landfill Development Plan	2.5 Seismic - DCLS (Yield Acceleration)	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



wsp	Mt Cooee Landfill Development Plan	5.1 Static - Long term	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

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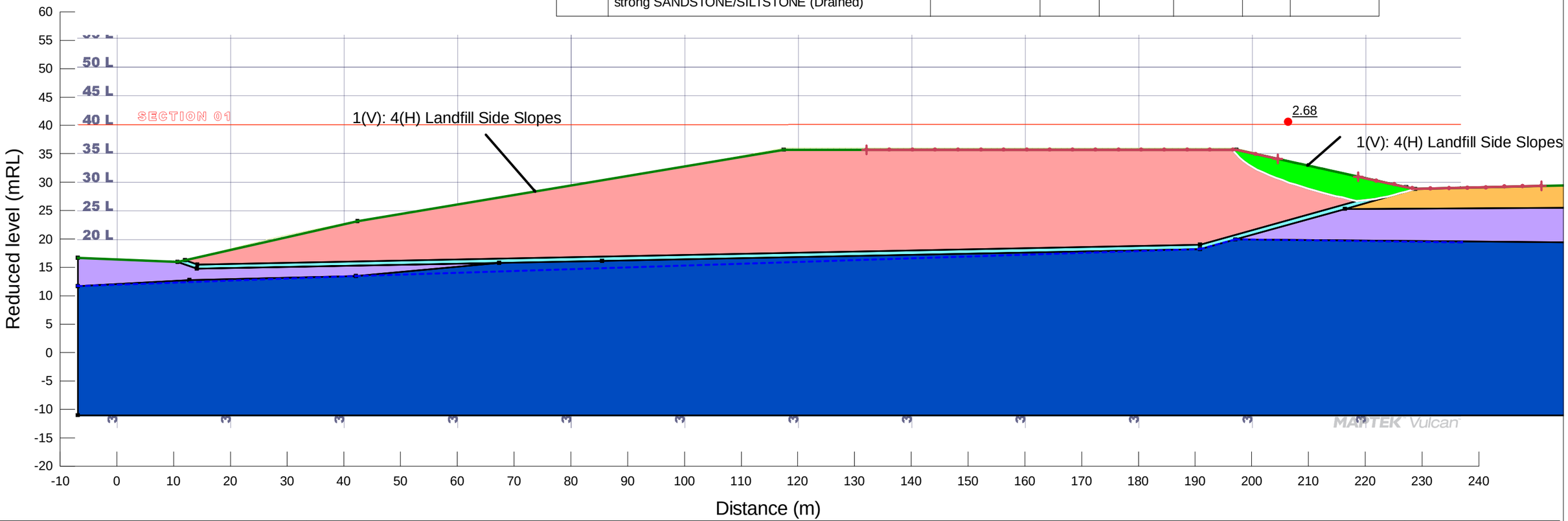
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1

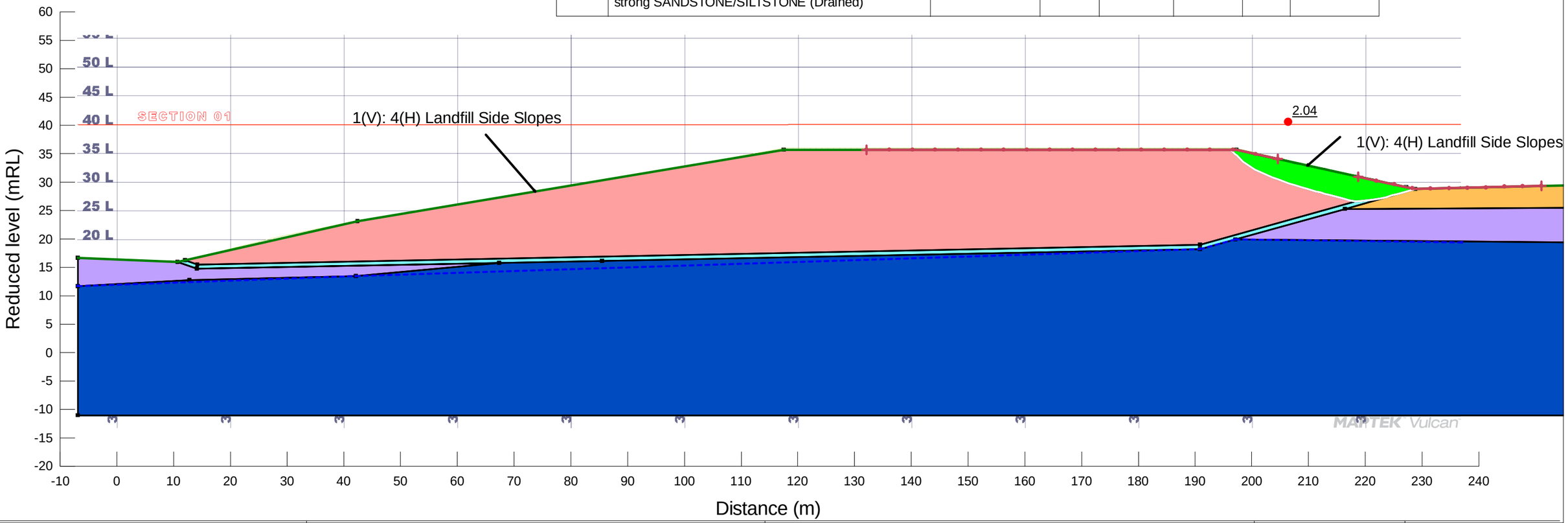


wsp	Mt Cooee Landfill Development Plan	5.2 Static - Short Term (High GWL)	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

Horz Seismic Coef.: 0.06

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



WSP	Mt Cooee Landfill Development Plan	5.3 Seismic - SLS	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

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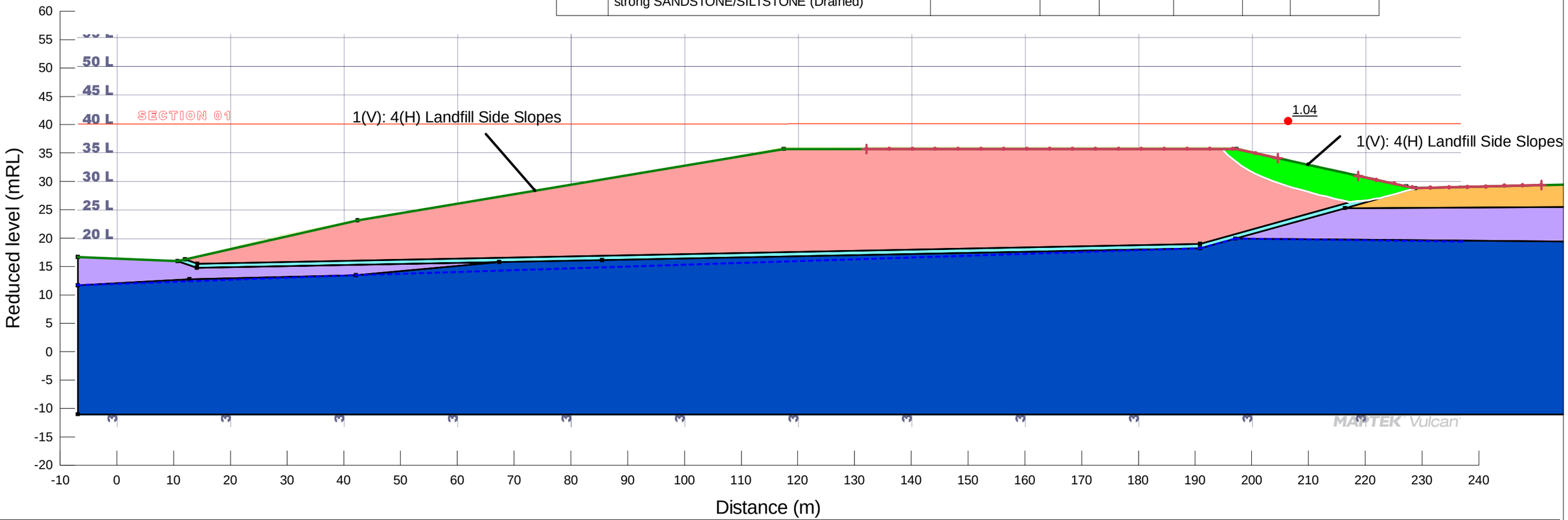
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.: 0.29

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



wsp	Mt Cooee Landfill Development Plan	5.4 Seismic - DCLS	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

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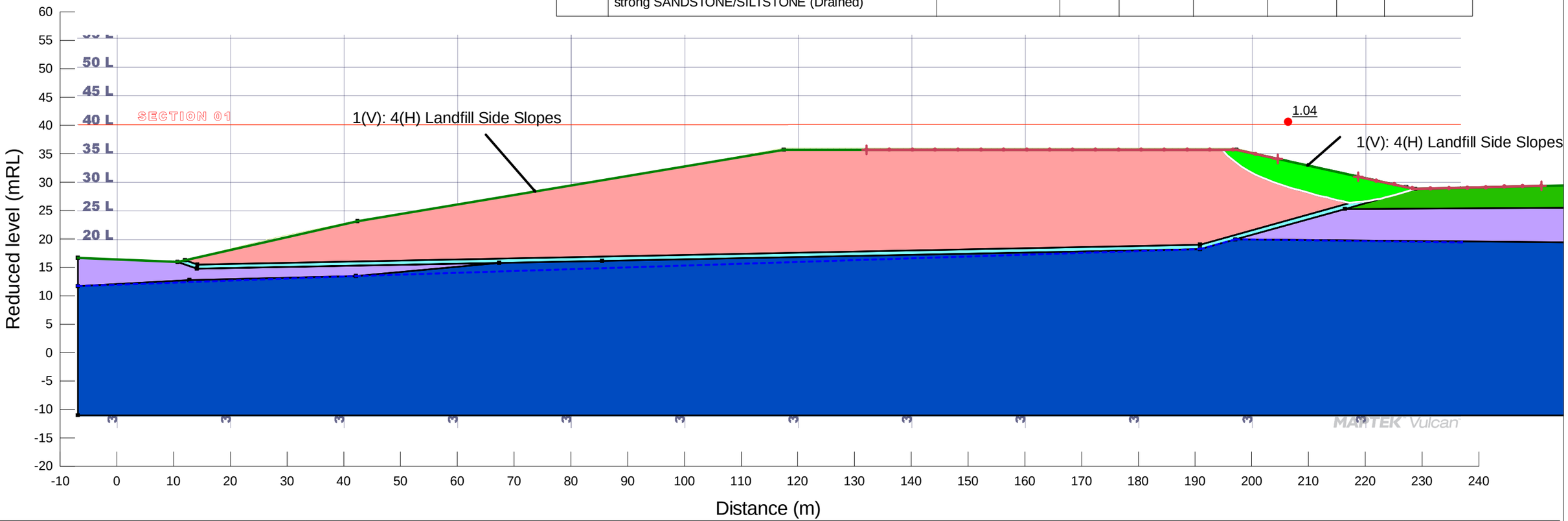
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.: 0.29

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Total Cohesion (kPa)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Liner - Double Textured HDPE	Mohr-Coulomb	17		0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13		5	25	0	1
	Unit 2 - Alluvial Deposits (Undrained)	Undrained (Phi=0)	17	30				1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21		20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23		30	44	0	1



wsp	Mt Cooee Landfill Development Plan	5.5 Seismic - DCLS (Undrained sensitivity)	6-CO082.00 / Date: 28/08/2023 / Scale: 1:700 / By: NT

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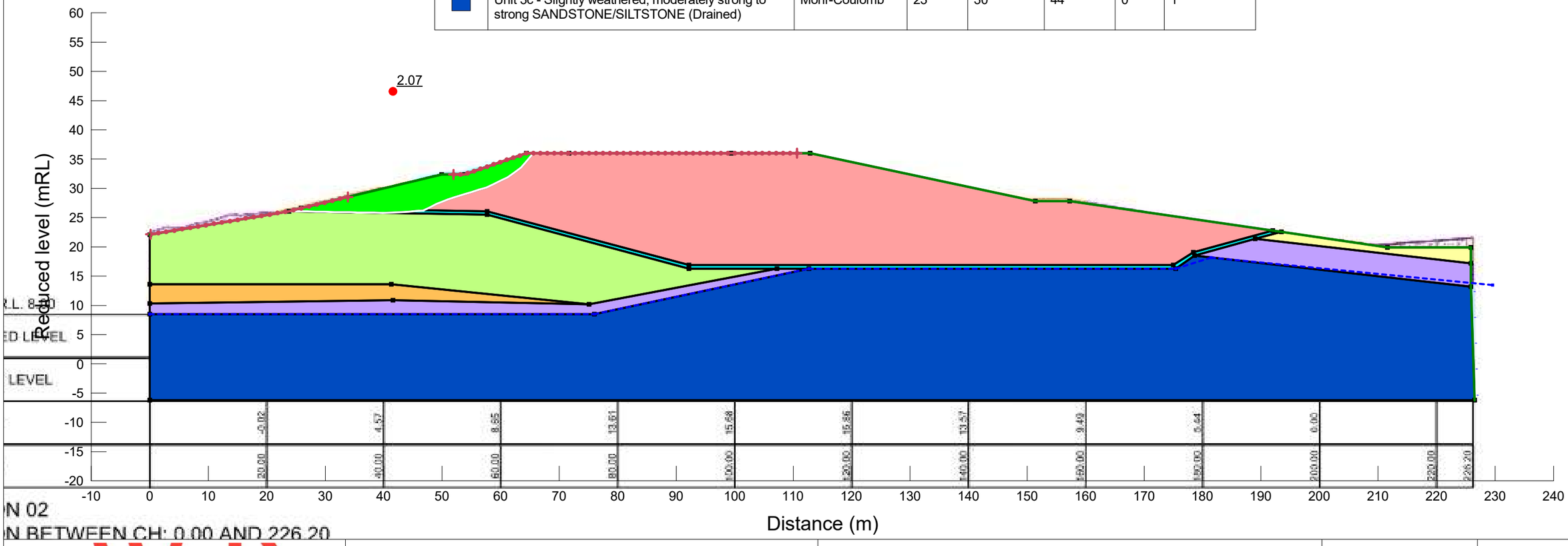
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



WSP	Mt Cooee Landfill Development Plan	2.1 Static - Long term	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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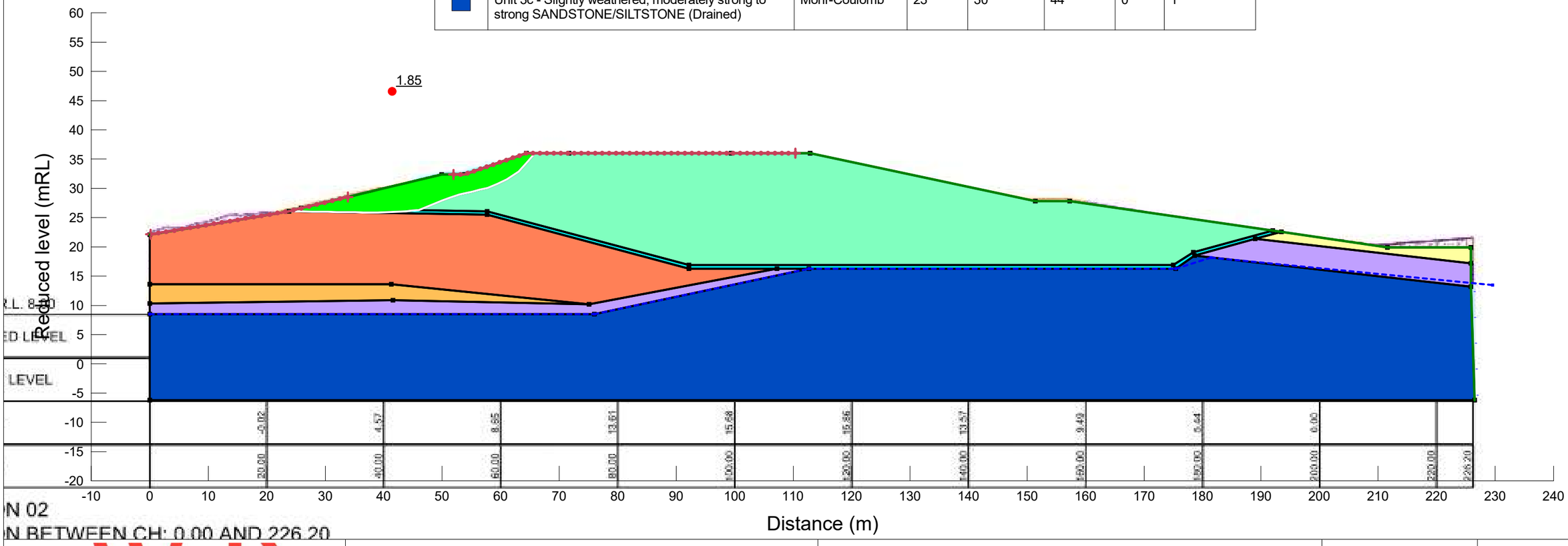
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill - Lowerbound Parameters	Mohr-Coulomb	12	3	22	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Lowerbound Parameters	Mohr-Coulomb	12	3	22	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

WSP	Mt Cooee Landfill Development Plan	2.1 Static - Sensitivity - Lower Refuse Parameters	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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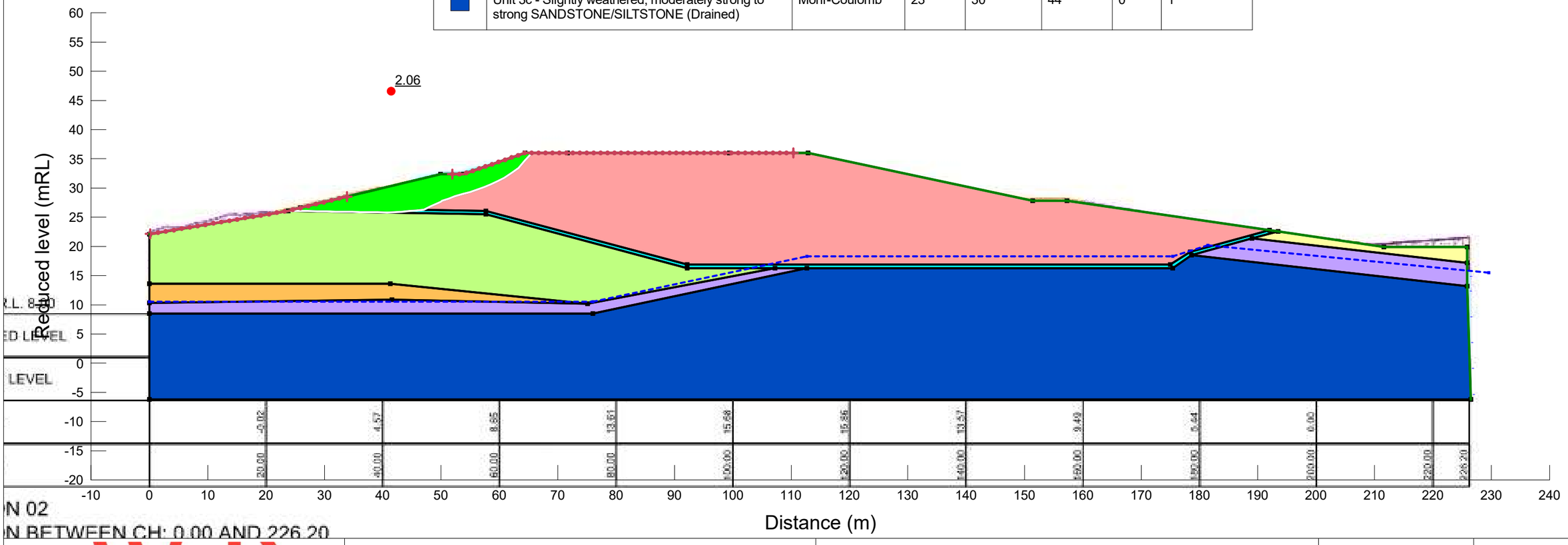
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

WSP	Mt Cooee Landfill Development Plan	2.2 Static - Short Term (High GWL)	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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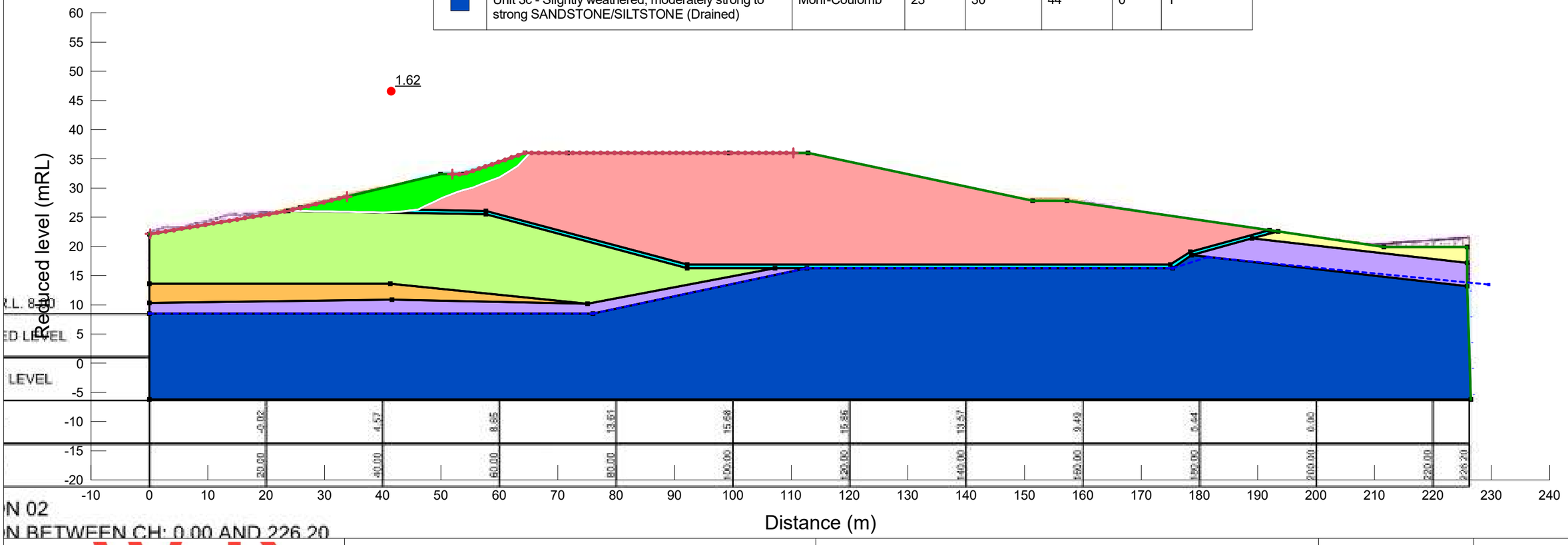
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.: 0.06

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

WSP	Mt Cooee Landfill Development Plan	2.3 Seismic - SLS	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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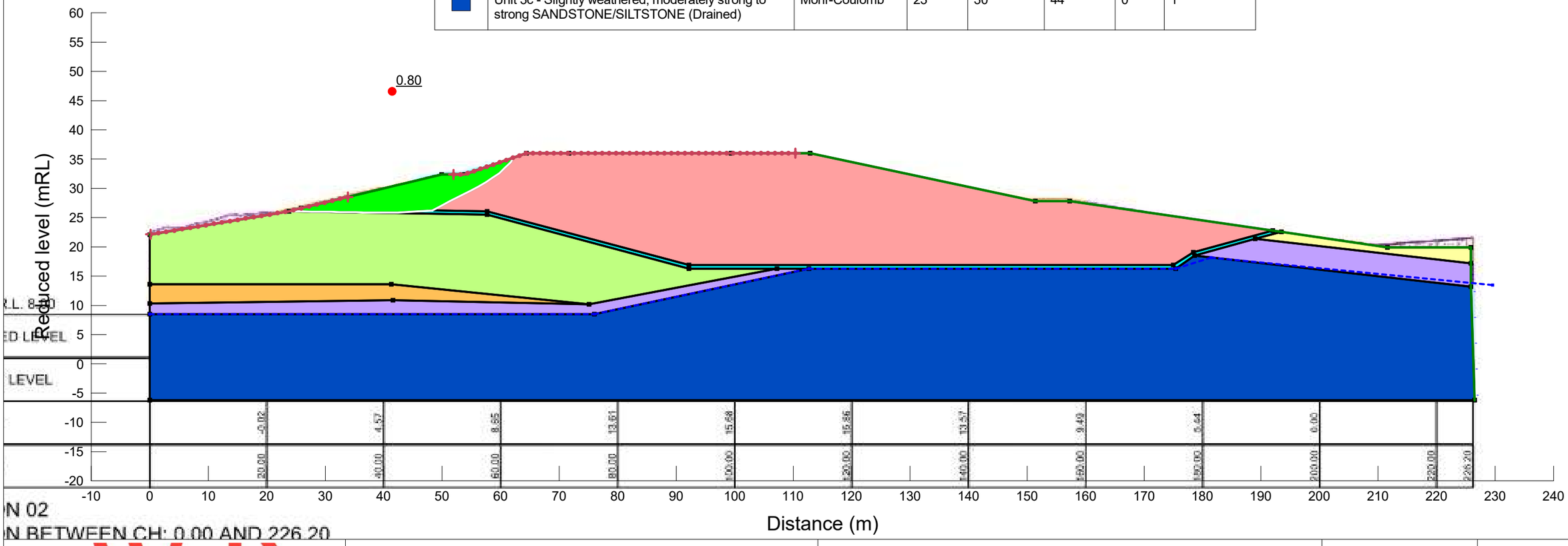
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.: 0.29

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

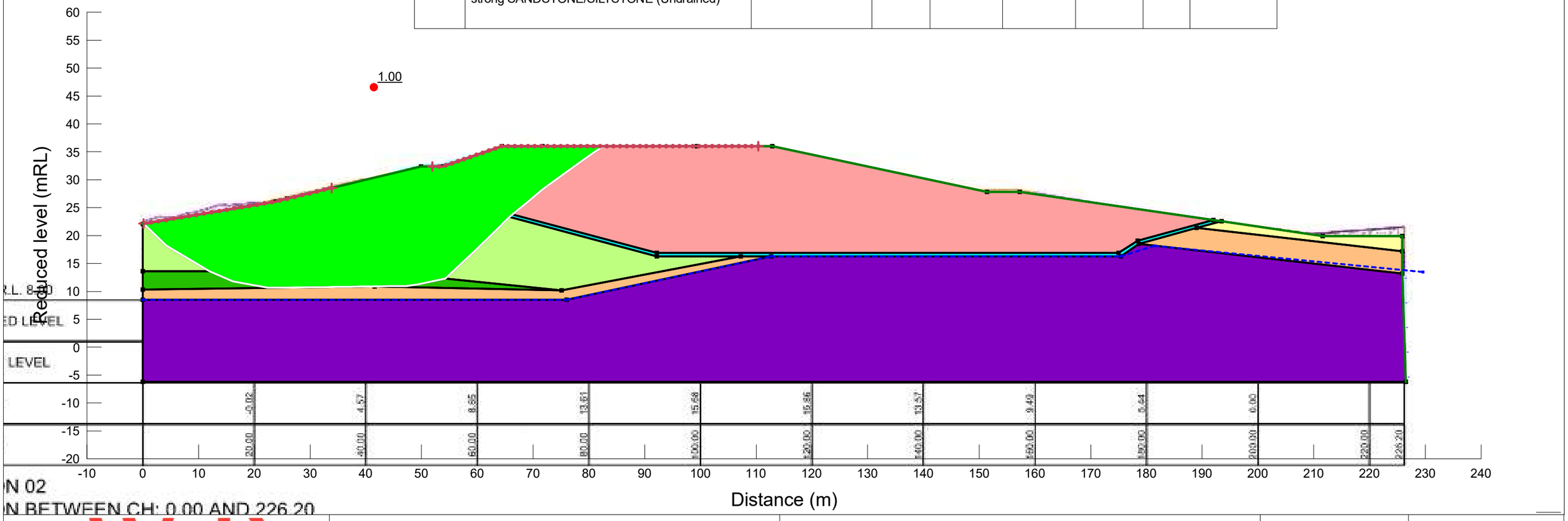
WSP	Mt Cooee Landfill Development Plan	2.4 Seismic - DCLS	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

Version: 11.4.0.18

Horz Seismic Coef.: 0.17

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Total Cohesion (kPa)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13		5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17		0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13		5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16		1	25	0	1
	Unit 2 - Alluvial Deposits (Undrained)	Undrained (Phi=0)	17	30				1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Undrained)	Undrained (Phi=0)	21	400				1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Undrained)	Undrained (Phi=0)	23	750				1



N 02

N BETWEEN CH: 0.00 AND 226.20

WSP	Mt Cooee Landfill Development Plan	2.5 Seismic - DCLS (Yield Acceleration)	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

U:\ProjectsNZ\6c\6-CO082.00 Mt Cooee Landfill - Development Plan & R\Home\Stage 2 - Geotech Interpretation\04 Slope Stability\SlopeW Files\Peer Review - IL3 Analyses\,Mount Cooee Landfill - Section 2 - Proposed.gsz, Taghipouran, Nima, 07/09/2023,09:25:26 am

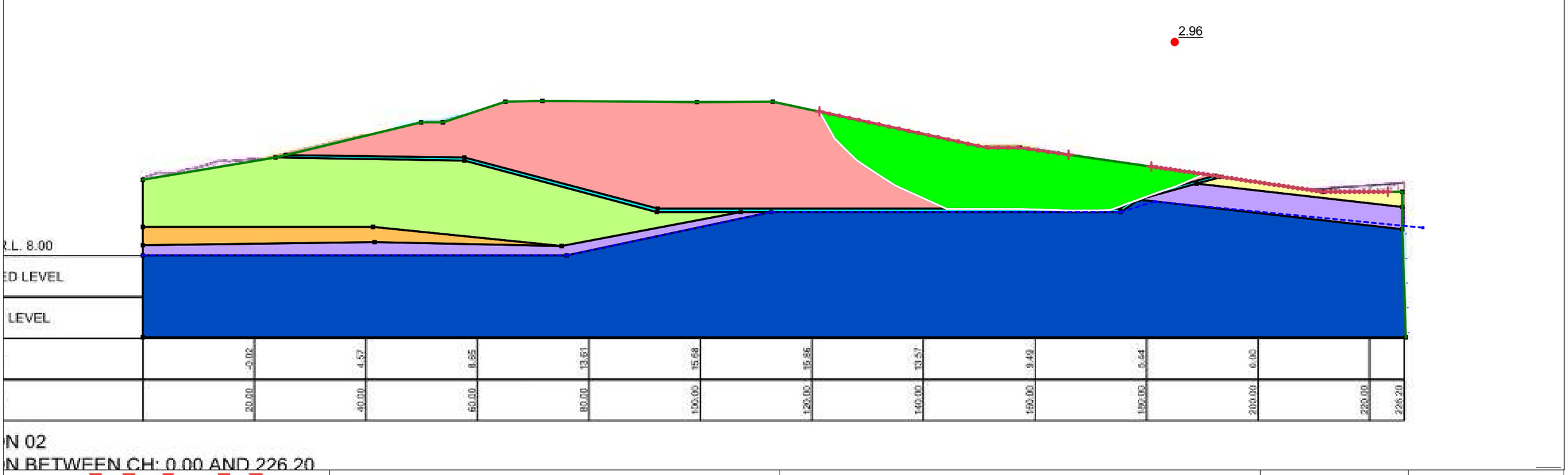
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

wsp	Mt Cooee Landfill Development Plan	4.1 Static - Long term	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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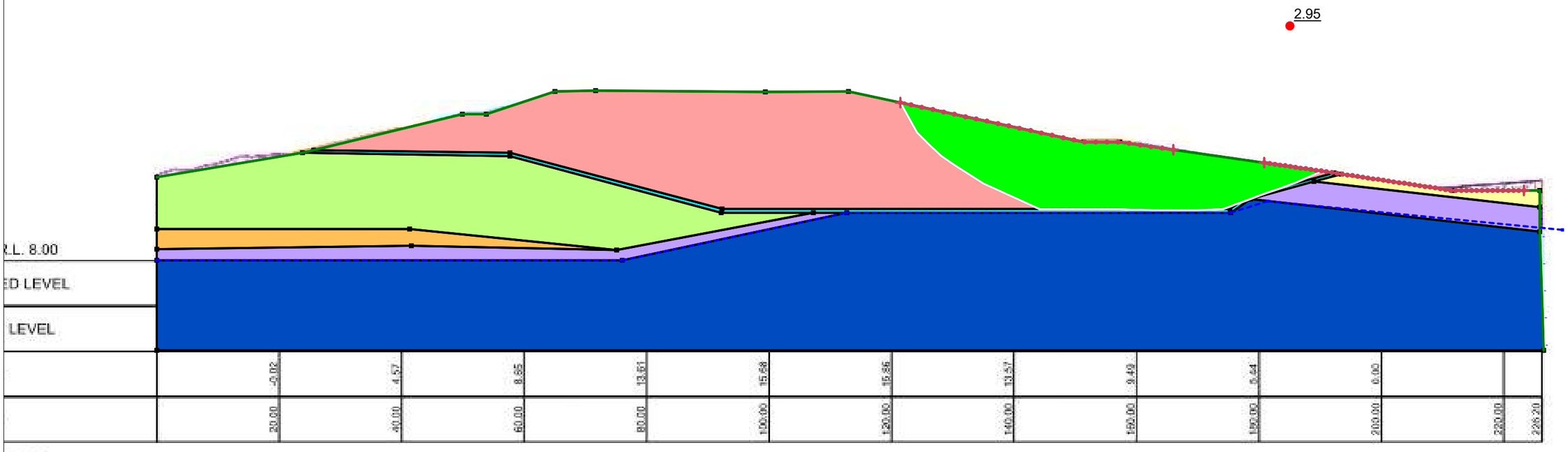
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

wsp	Mt Cooee Landfill Development Plan	4.1 Static - Sensitivity - Lower Refuse Parameters	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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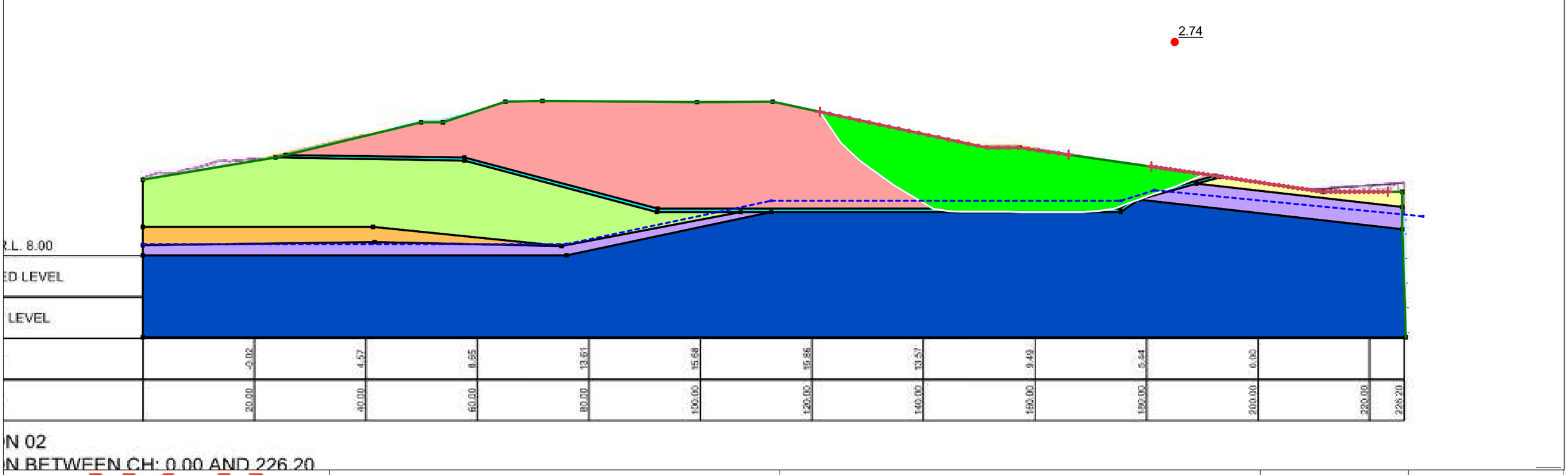
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.:

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

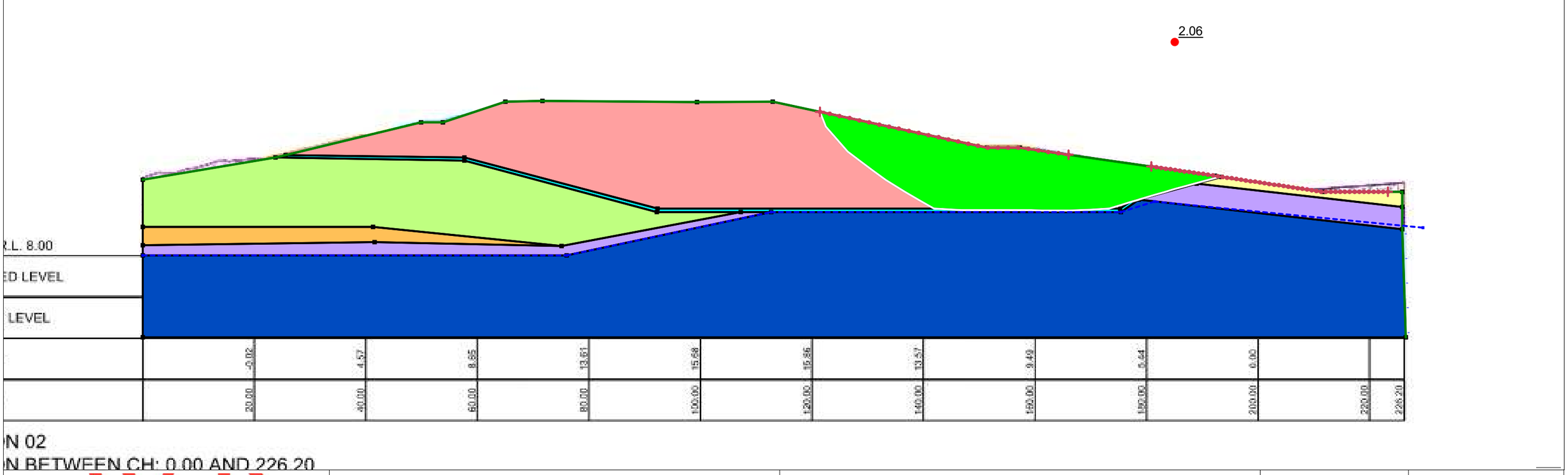
N BETWEEN CH: 0.00 AND 226.20

wsp	Mt Cooee Landfill Development Plan	4.2 Static - Short Term (High GWL)	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

Horz Seismic Coef.: 0.06

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

wsp	Mt Cooee Landfill Development Plan	4.3 Seismic - SLS	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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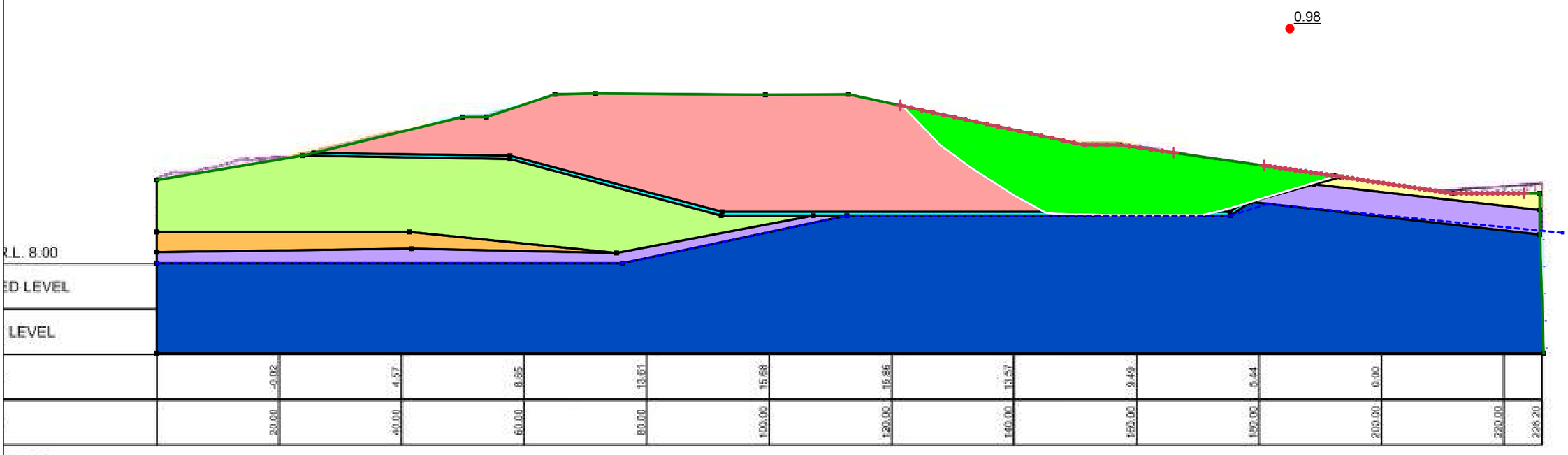
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.: 0.29

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17	0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13	5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16	1	25	0	1
	Unit 2 - Alluvial Deposits (Drained)	Mohr-Coulomb	17	1	28	0	1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	21	20	40	0	1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Drained)	Mohr-Coulomb	23	30	44	0	1



N 02

N BETWEEN CH: 0.00 AND 226.20

wsp	Mt Cooee Landfill Development Plan	4.4 Seismic - DCLS	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT

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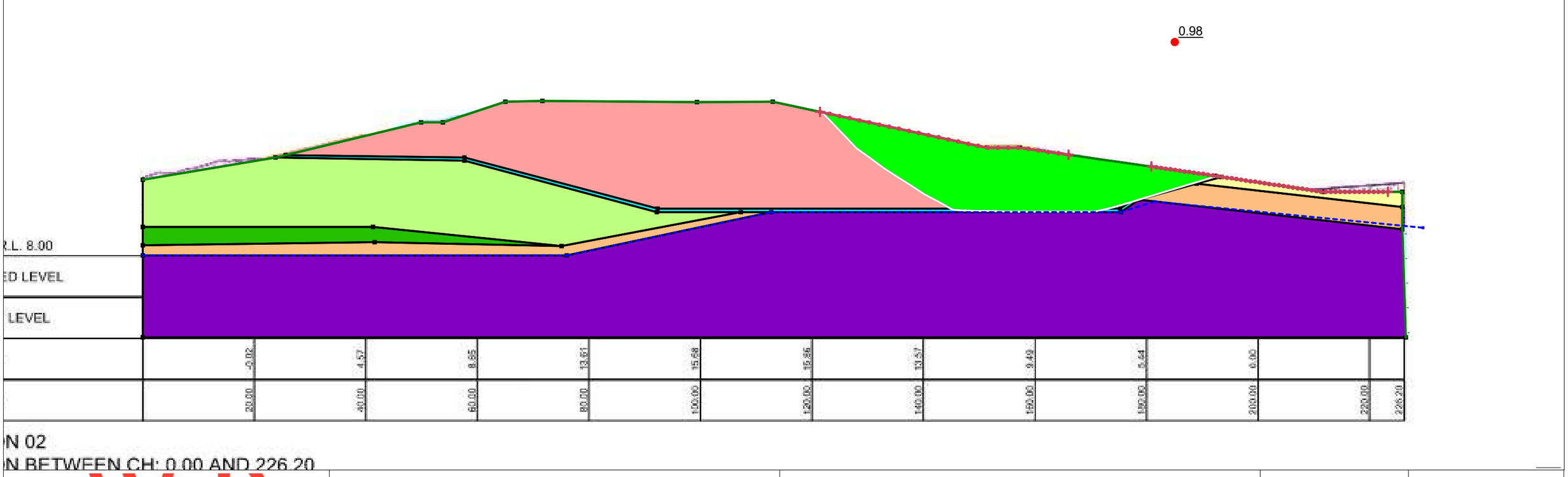
DO NOT SCALE

Version: 11.4.0.18

Horz Seismic Coef.: 0.29

Method: Morgenstern-Price

Color	Name	Slope Stability Material Model	Unit Weight (kN/m³)	Total Cohesion (kPa)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Existing Landfill (Drained) - Nominal Parameters	Mohr-Coulomb	13		5	25	0	1
	Liner - Double Textured HDPE	Mohr-Coulomb	17		0	16	0	1
	Refuse / Waste (Drained) - Nominal Parameters	Mohr-Coulomb	13		5	25	0	1
	Unit 1 - Topsoil	Mohr-Coulomb	16		1	25	0	1
	Unit 2 - Alluvial Deposits (Undrained)	Undrained (Phi=0)	17	30				1
	Unit 3b - Highly to moderately weathered, very weak to weak SANDSTONE/SILTSTONE (Undrained)	Undrained (Phi=0)	21	400				1
	Unit 3c - Slightly weathered, moderately strong to strong SANDSTONE/SILTSTONE (Undrained)	Undrained (Phi=0)	23	750				1



N 02

N BETWEEN CH: 0.00 AND 226.20

wsp	Mt Cooee Landfill Development Plan	4.5 Seismic - DCLS (Undrained sensitivity)	6-CO082.00 / Date: 07/09/2023 / Scale: 1:700 / By: NT